Government of Pakistan
Ministry of Communication
National Highway Authority
27 Mauve Area, Sector G-9/1, Islamabad

Z1/4-3/20/24937
17-12-20
2(525)

HIGHWAY DRAWINGS
VOLUME-IV

CONSTRUCTION OF ROAD
FROM NOKUNDI TO MASHKHEL (102 KM)
TAFTAN – QUETTA ROAD

NOV, 2020

Prepared & Submitted By:

M/s Zeeruk International Pvt. Ltd.
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NAUKANDI TO MASHKHEL

GENERAL DRAWINGS

GENERAL NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON DRAWINGS PERTAINING TO TYPICAL DETAILS AND ROAD PLANS AND PROFILE ARE IN METER UNLESS OTHERWISE MENTIONED.

2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES, WATER COURSE ETC. AS SHOWN ON THE PLANS OR AS OTHERWISE ENCOUNTERED DURING CONSTRUCTION.

3. THE ENGINEER MAY VERY THE CUT SLOPE, FOUNDATION AND OTHER FEATURE OF DESIGN AS DEEMED NECESSARY TO CONFIRM TO THE VARYING SITE CONDITION DURING THE EXECUTION OF WORK AS MAY BE DISCOVERED FROM THE STAKE OUT SURVEY. ALL SUCH CHANGES SHALL BE GOVERNED BY THE RELEVANT CONTRACT CONDITIONS.

4. THE UTILITIES LINES SHOULD BE RELOCATED ACCORDING TO THE INSTRUCTION OF ENGINEER AND TO THE SATISFACTION OF CONCERNED AUTHORITIES.

5. THE GROUND HEIGHT, STRUCTURE LOCATIONS, ELEVATION, SKEW ANGLE AND GRADES SHALL BE CHECKED DURING STAKE OUT SURVEY BEFORE EXECUTION OF THE WORKS SUFFICENTLY IN ADVANCE, ADJUSTMENT IN THE RELEVANT DRAWING IF ANY SHALL BE APPROVED BY THE ENGINEER BEFORE EXECUTION.

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS NOTED OTHERWISE.

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NOK KUNDI TO MASH KHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

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IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

GENERAL NOTES
ABBREVIATIONS AND SYMBOLS

DESIGN BY: AYESHA SHABBIR	SHEET NO:
DRAWN BY: AKHTAR	SCALE: N.T.S
CHECKED BY: ZAFAR ALI	DATE: NOV. 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/GEN/01

SYMBOLS

BUILDING

CENTER LINE

INTERMEDIATE CONTOUR

CONTROL POINT — 10164 BM6

SPOT ELEVATION — 3694 NSL EL 157.10

CULVERT

DRAIN

ELECTRIC POLE/ LINE

GARDEN

HAND PUMP

POND

RAILWAY LINE

GRID NORTH

TRAVERSE /BM POINTS — TP

POINT OF INTERSECTION — P.I

TRACK

WELL

TREE

WALL

WATER COURSE

MANHOLE

EXCAVATION

FOREST AREA

ROAD SIGN (IN PLAN) — ROAD SIGN NUMBER 101

EXISTING GROUND LEVEL (EGL)

PROPOSED GROUND LEVEL (PGL)

RCC PIPE

ROAD

BRICKS ROAD

WATER TANK

PROPOSED DRAIN

PROPOSED CATTLE CREEP

PROPOSED FENCE

ELECTRIC POLES TO BE RELOCATED

CARRIAGEWAY

PROPOSED R.O.W.

PROPOSED BOX CULVERT

PROPOSED PIPE CULVERT

EMBANKMENT

ABBREVIATIONS

A	AREA
ALIG.	ALIGNMENT
B	BREADTH
BC	BOX CULVERT
B.M	BENCH MARK
B.N	BOLT & NUT
BOP	BEGINNING OF PROJECT
C	CHORD LENGTH
C.B.R	CALIFORNIA BEARING RATIO
C/C	CENTER TO CENTER
CD	CULVERT OVER DRAIN
CHD.	CHECKED
C/L, L^{C}	CENTER LINE
CM/cm	CENTIMETER
CONC.	CONCRETE
CONST/JT	CONSTRUCTION JOINT
CS	CURVE TO SPIRAL
CUL	CULVERT
Cu.m	CUBIC METER
CURVE LEN	VERTICAL CURVE LENGTH
D	DEPTH
Da	DEGREE OF CURVE (BY ARC)
DC	DEGREE OF CURVE (BY CHORD)
DEG	DEGREE
DIA.	DIAMETER
DIM.	DIMENSION
D/S	DOWNSTREAM
D.S.T	DOUBLE SURFACE TREATMENT
DRG.	DRAWING
	EASTING , EAST , EXTERNAL DISTANCE (SHIFT)
ELEV./EL	ELEVATION
EOP	END OF PROJECT
EXP/JT	EXPANSION JOINT
G.I	GALVANIZED IRON
H/HOR.	HORIZONTAL
H.T/L.T	HIGH TENSION/LOW TENSION
HF	HEIGHT OF FILL
HFL	HIGH FLOOD LEVEL
HWY.	HIGHWAY
I	DEFLECTION ANGLE (HORIZONTAL CURVE)
	CIRCULAR DEFLECTION ANGLE
IL	INVERT LEVEL
IS	SPIRAL DEFLECTION ANGLE
K	ABSCISSA OF PC OF SHIFTED CIRCULAR CURVE REFERRED TO STRAIGHT END OF SPIRAL
KG	KILOGRAM
KM/Km	KILOMETER
L	LENGTH OF HORIZONTAL CURVE/SPIRAL
LIN.M	LINEAR METER
LHS.	LEFT HAND SIDE
LT.	LEFT
LT	LONG TANGENT
M/m	METER
M	MIDDLE ORDINATE
MAX.	MAXIMUM
M.H	MAN HOLE
MIN.	MINIMUM
mm	MILLIMETER
0 09 49"	ANGULAR DIMENSION (0 deg 9 min 49 sec)

LWC	LINED WATER COURSE
E.G.L	EXISTING GROUND LEVEL (E.G.L)
N	NORTHING, NORTH
NO.	NUMBER
N.T.S	NOT TO SCALE
P	OFFSET OF TANGENT LINE TO PC OF SHIFTED CIRCLE CURVE
PC	POINT OF HORIZONTAL CURVATURE (START OF HORIZONTAL CURVE)
P.C.	REINFORCED CONCRETE PIPE CULVERT
PGL	PROPOSED GROUND LEVEL
P.I.	PLASTICITY INDEX
PI	POINT OF HORIZONTAL INTERSECTION
PL	PLATE
PR	POINT OF ROTATION
PT	POINT OF HORIZONTAL TANGENCY (END OF HORIZONTAL CURVE)
R	RADIUS OF HORIZONTAL CURVE
R.C	REINFORCED CONCRETE
REINF.	REINFORCEMENT
REV.	REVISION
RHS.	RIGHT HAND SIDE
R.O.W.	RIGHT OF WAY
RU	ROAD UNDERPASS
RT.	RIGHT
R/W	RETAINING WALL
RWC	RELOCATED WATER COURSE
S	SLOPE GRADIENT (PERCENT)
SE	SUPERELEVATION
S.B.P	SHOULDER BREAK POINT
S.C.	SLAB CULVERT
SC	SPIRAL TO CURVE
SHLD	SHOULDER
Sq.m	SQUARE METER
S.T.	SHORT TANGENT
ST	SPIRAL TO TANGENT
STA./STA	STATION (CHAINAGE)
STRUCT	STRUCTURE
SUPEREL.	SUPERELEVATION
S'WALK	SIDE WALK
SW	SUBWAY
T	TANGENT LENGTH OF HORIZONTAL CURVE
TS	TANGENT TO SPIRAL
T.S.T	TRIPPLE SURFACE TREATMENT
TAN.	TANGENT
TH	THICKNESS
TR	TRANSITION RUN OUT
TYP.	TYPICAL
U/S	UPSTREAM
V	VERTICAL
VAR.	VARIABLE
VER.	VERIFIED
VPC	VERTICAL POINT OF CURVATURE (START OF VERTICAL CURVE)
VPI	VERTICAL POINT OF INTERSECTION OF PROFILE GRADE.
VPT	VERTICAL POINT OF TANGENCY (END OF VERTICAL CURVE)
W.	WEST, WIDTH OF ROADWAY
W.B.M	WATER BOUND MACADAM
WC	WATER COURSE
WCC	WATER COURSE CULVERT
X	DISTANCE, PERPENDICULAR TO THE TANGENT, FROM BEGINNING TO THE END OF SPIRAL
Y	DISTANCE, PERPENDICULAR TO THE TANGENT, FROM BEGINNING TO THE END OF SPIRAL
0	SKEW ANGLE

NOTES

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REV.	REVISION/ISSUE	DATE
01		
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NOK KUNDI TO MASH KHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEERUK INTERNATIONAL (PVT) LTD
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IN ASSOCIATION WITH:

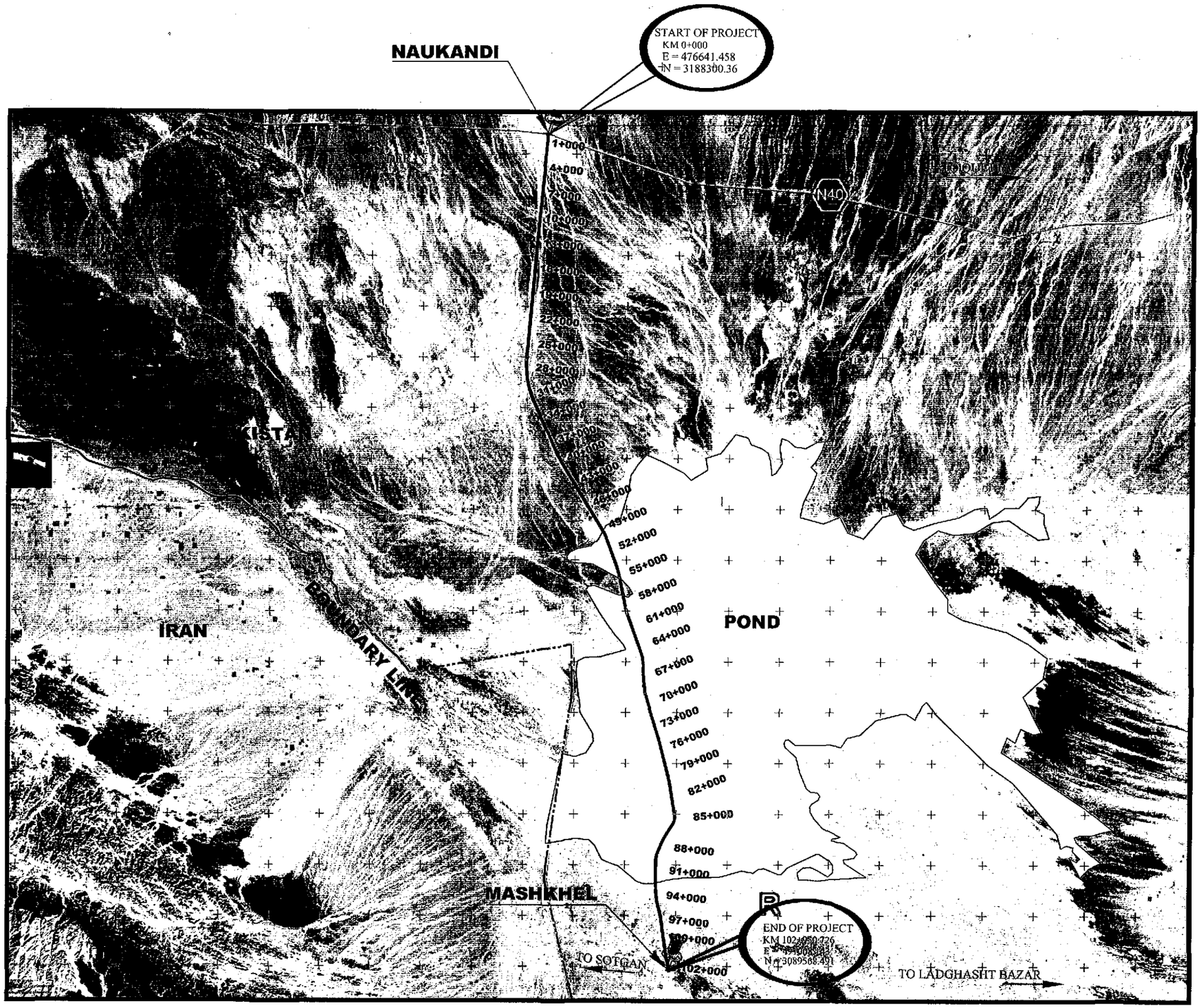
KASID ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

SYMBOLS AND LEGEND ABBREVIATION

DESIGN BY: AYESHA SHABBIR	SHEET NO:
DRAWN BY: AKHTAR	SCALE: N.T.S
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/GEN/02



NOTES

LEGENDS

IRAN BORDER BOUNDARY LINE

NAUKANDI TO MASHAKHEL

POND

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

GEOLOGICAL MAP FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
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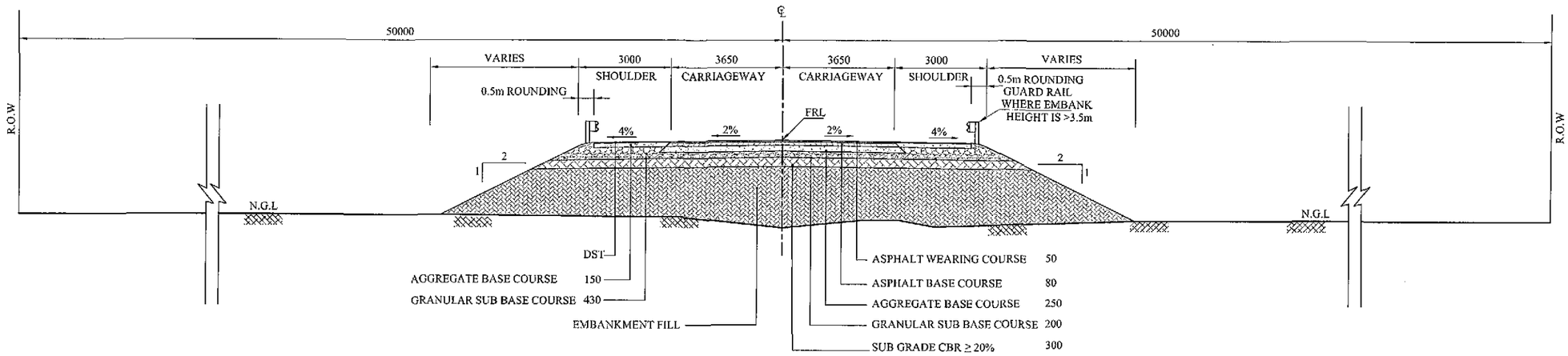
DRAWING TITLE:

LINEAR PLAN
NAUKANDI TO MASHKHEL

DESIGN BY:	SHEET NO:
MIAN GULZEB JOIYA	
DRAWN BY:	SCALE:
SHER MUHAMMAD	N.T.S
CHECKED BY:	DATE:
YASIR MEHMOOD	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/LP/03



TYPICAL CROSS SECTION-I
KM 0+000 TO KM 48+700
KM 95+500 TO KM 102+950.726

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS NOTED OTHERWISE.
2. ALL PAVEMENT LAYERS SHALL BE PREPARED AS PER NHA GENERAL SPECIFICATIONS 1998.

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

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NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

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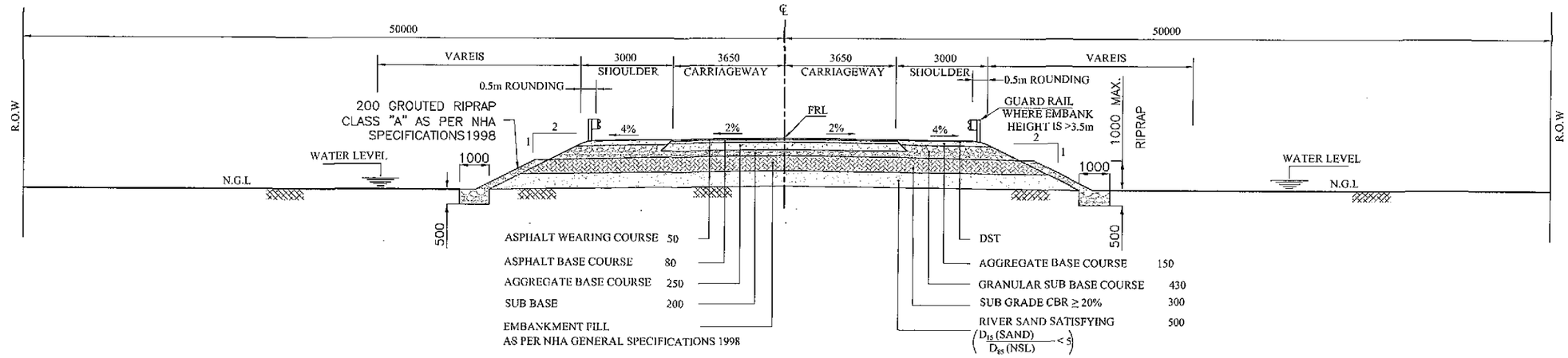
DRAWING TITLE:
TYPICAL CROSS SECTION
FOR FLEXIBLE PAVEMENT

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	01 of 02
DRAWN BY:	SCALE:
AKHTAR	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/GEN/04A



TYPICAL X-SECTION-II
(SLUSHY \ POND AREA)
KM 48+700 TO KM 90+500

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS NOTED OTHERWISE.
2. ALL PAVEMENT LAYERS SHALL BE PREPARED AS PER NHA GENERAL SPECIFICATIONS 1998.

LEGENDS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAURANDI TO MASHKHEL

CLIENT:
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MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
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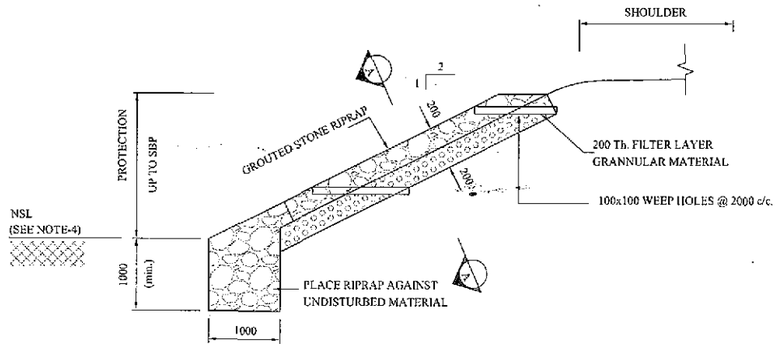
DRAWING TITLE:
TYPICAL CROSS SECTION
FOR FLEXIBLE PAVEMENT

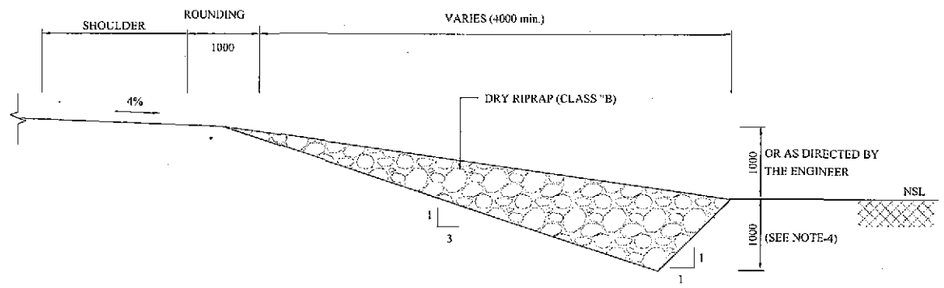
DESIGN BY: AYESHA SHABBIR	SHEET NO: 02 of 02
DRAWN BY: AKHTAR	SCALE: N.T.S
CHECKED BY: ZAFAR ALI	DATE: NOV. 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/GEN/04B



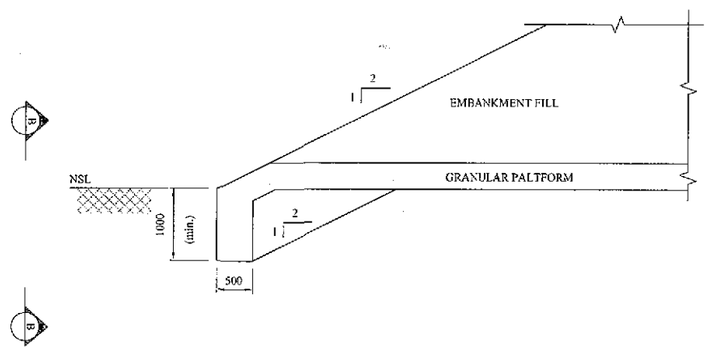
GROUTED STONE RIPRAP PROTECTION

(EP-1)



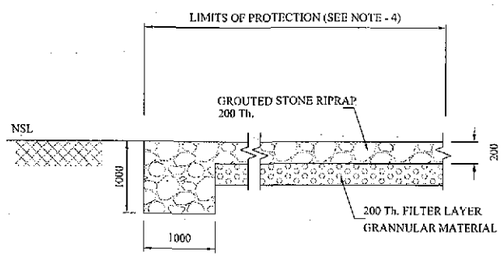
DRY RIPRAP PROTECTION

(EP-2)

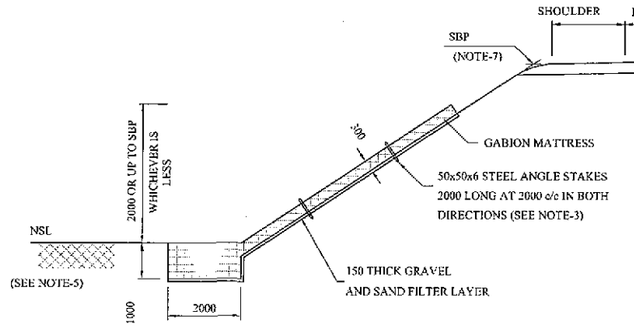


GRANULAR PLATFORM EARTHEN DOWEL

(EP-4)

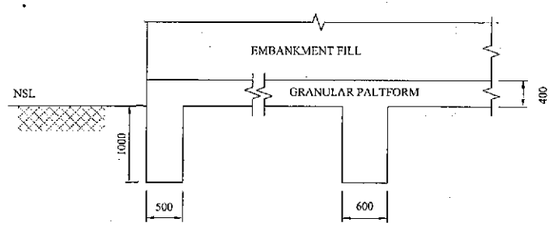


SECTION A-A



GABION MATTRESS PROTECTION

(EP-3)



SECTION B-B

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS NOTED OTHERWISE.

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PROJECT:

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NATIONAL HIGHWAY AUTHORITY
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& ARCHITECTS.

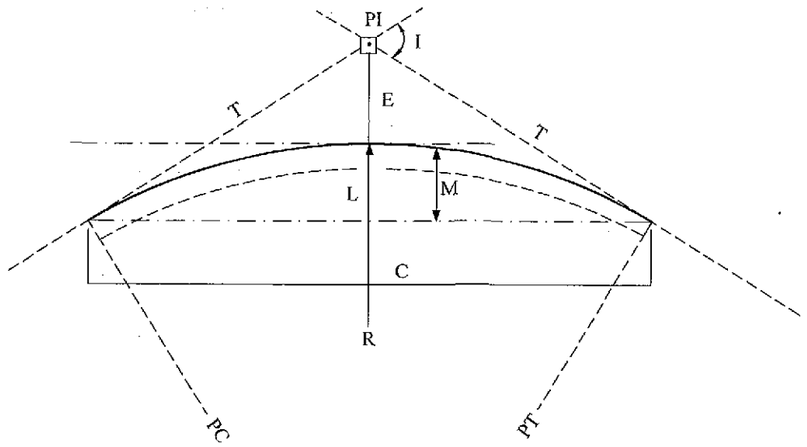
DRAWING TITLE:

TYPICAL EMBANKMENT PROTECTION DETAILS

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	
DRAWN BY:	SCALE:
AKHTAR	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV. 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

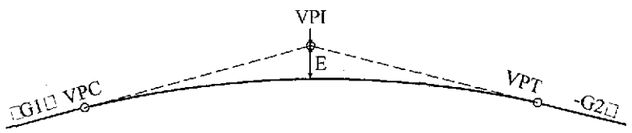
CAD FILE NAME:

ZI/KA/NK/GEN/05



I □ A□□□ O□D□□□□□o□
R □ Radius O□Cur□ature (metre)
D □ De□ree O□Cur□e (de□ree)
T □ Tan□ent Len□th (metre)
E □ Extrnal Distan□e (metre)
P□ □ Point O□Cur□ature
Pt □ Point O□Tan□en□□
L □ Len□th O□Cur□e
C □ Chord Len□th (metre)
M □ Mide Ordinate (metre)

DETAILS OF HORIZONTAL CURVE



VPI □ Verti□al □oint o□Interse□tion
VPC □ Verti□al □oint o□Cur□ature
V □ Verti□al □oint o□Tan□en□□
E □ Verti□al o□set
G1,G2□ Grade (□□)
LVC □ Len□th o□Verti□al Cur□ature

DETAILS OF VERTICAL CURVE

Geometri□Desi□n Criteria

Desi□n Parameters	Values
Desi□n Li□e	
Pa□ement Stru□ture	10 □ears
Desi□n S□eed (max.)	
Flat Terrain Rural	100 Km/h
Su□er ele□ation	
Maximum Su□er ele□ation	6□
Trans□erse slo□e (Camber)	
Pa□ement	2.0 □
Shoulders	4.0 □
Gradient	
Maximum	4 □
Cross Se□tion Elements	
Carria□e□a□Width	7.30 m
Shoulder Width either side	3.00 m (Tri□le Sur□a□e Treatment)
Embankment Hei□ht	Varies
Embankment Side Slo□e (Fill)	2H: 1V to 3H: 1V

NOTES
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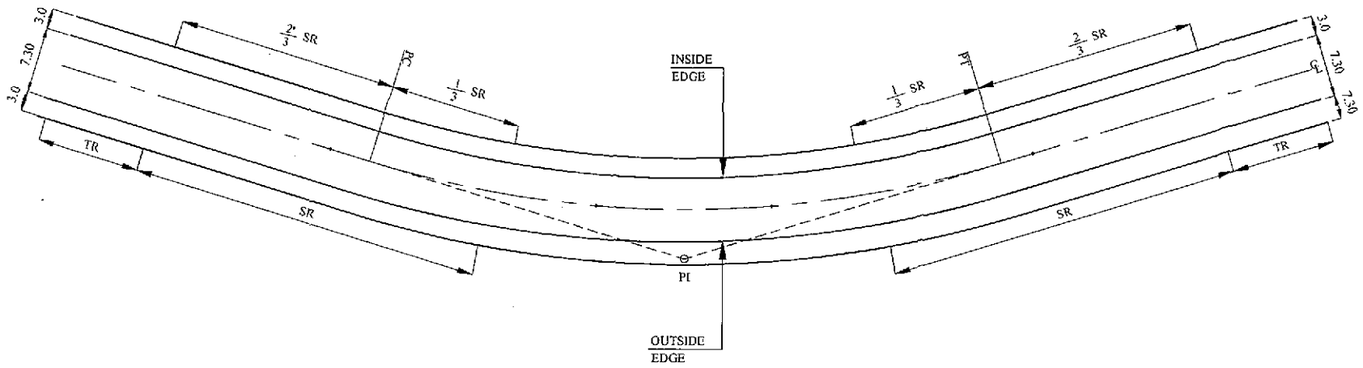
KASIB ASSOCIATES
ENGINEER CONSULTANT
& ARCHITECTS.

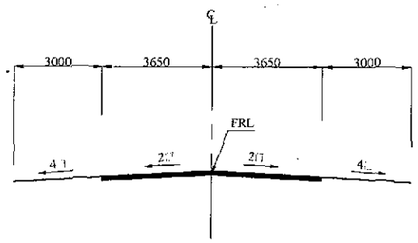
DRAWING TITLE:
GEOMETRIC DESIGN CRITERIA

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	
DRAWN BY:	SCALE:
AKHTAR	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

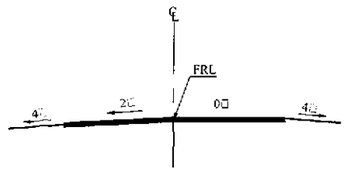
CAD FILE NAME:
ZI/KA/NK/GEN/06



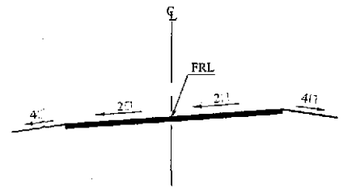
CURVE PLAN



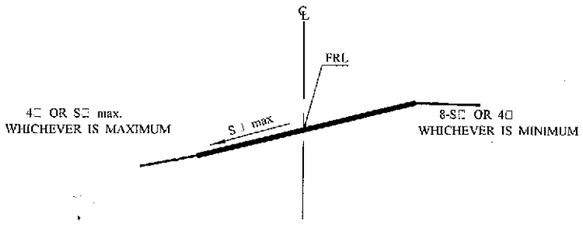
NORMAL CROSSFALL AT "A"



X-SECTION AT "B"

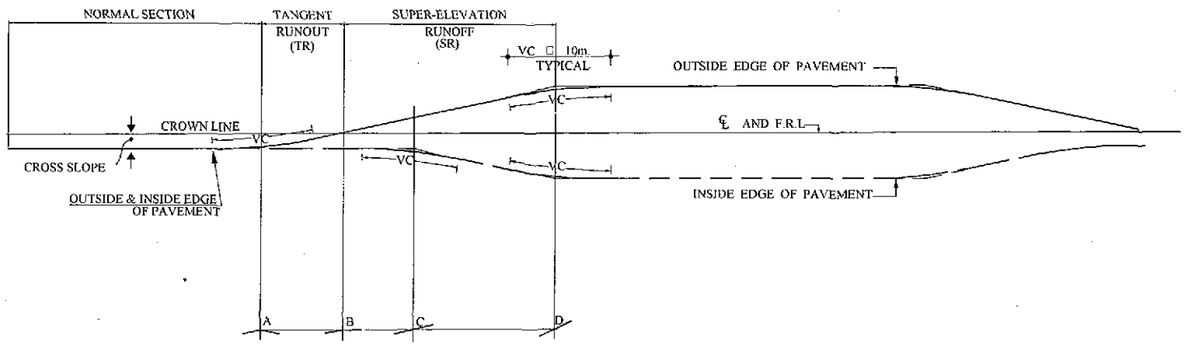


X-SECTION AT "C"



X-SECTION AT "D"

X-SECTION SHOWING SUPERELEVATION
PATTAINMENT FOR 2-LANE SINGLE CARRIAGEWAY



LONGITUDINAL ELEVATION

METHOD OF ATTAINING ELEVATION
PAVEMENT REVOLVED ABOUT CENTERLINE
FOR LEFT CURVE

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS NOTED OTHERWISE.

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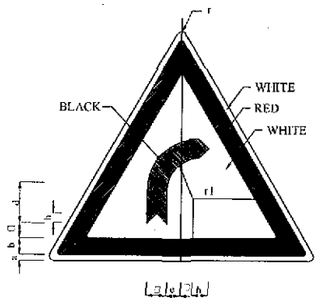
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS

DRAWING TITLE:
SUPER ELEVATION
ATTAIMENT SCHEME

DESIGN BY: AYESHA SHABBIR	SHEET NO:
DRAWN BY: AKHTAR	SCALE: N.T.S
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV 00

CAD FILE NAME:
ZI/KA/NK/GEN/07

T1

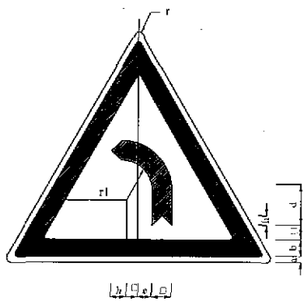


CURVE TOWARDS RIGHT

DIMENSION(cm)

PARTS	SIGN SIZE	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	4.0	5.3
d	11.5	15.3
e	8.5	11.3
f	7.0	9.3
g	6.0	8.0
h	3.5	4.7
r1	12.5	16.7

T2

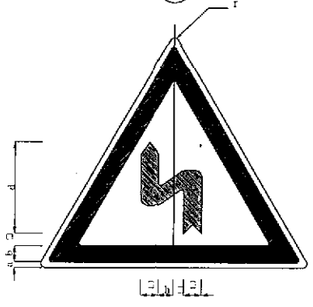


CURVE TOWARDS LEFT

DIMENSION(cm)

PARTS	SIGN SIZE	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	4.0	5.3
d	11.5	15.3
e	8.5	11.3
f	7.0	9.3
g	6.0	8.0
h	3.5	4.7
r1	12.5	16.7

T3

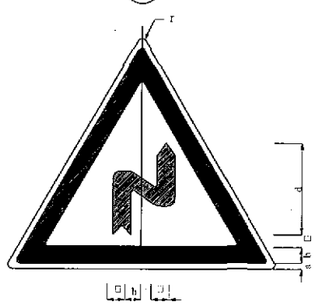


MULTIPLE CURVES (FIRST TO LEFT)

DIMENSION(cm)

PARTS	SIGN SIZE	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	3.0	4.0
d	33.0	44.0
e	14.0	18.7
f	8.0	10.7
g	7.0	9.3
h	2.0	2.7
i	3.5	4.7
r1	4.5	6.0

T4

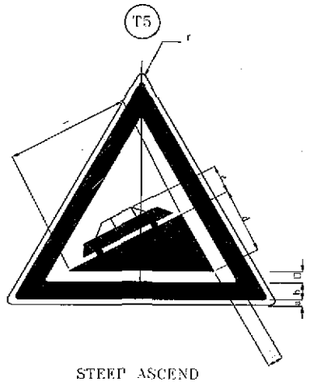


MULTIPLE CURVES (FIRST TO RIGHT)

DIMENSION(cm)

PARTS	SIGN SIZE	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	3.0	4.0
d	33.0	44.0
e	14.0	18.7
f	8.0	10.7
g	7.0	9.3
h	2.0	2.7
i	3.5	4.7
r1	4.5	6.0

T5

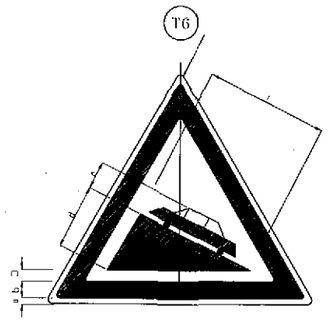


STEEP ASCEND

DIMENSION(cm)

PARTS	SIGN SIZE	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	3.5	4.7
d	23.5	31.3
e	11.5	15.3
f	33.0	44.0

T6

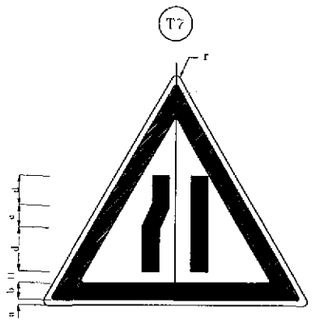


STEEP DESCEND

DIMENSION(cm)

PARTS	SIGN SIZE	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	3.5	4.7
d	23.5	31.3
e	11.5	15.3
f	33.0	44.0

T7

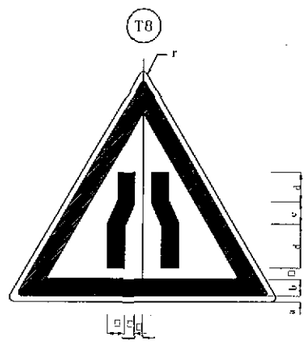


LANE AT LEFT ENDS

DIMENSION(cm)

PARTS	SIGN SIZE	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	3.5	4.7
d	10.0	13.3
e	14.0	18.7
g	2.5	3.3
h	5.0	6.7

T8

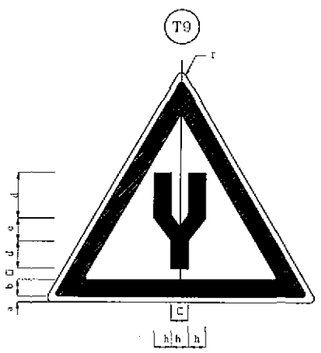


ROADWAY NARROWS

DIMENSION(cm)

PARTS	SIGN SIZE	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	3.5	4.7
d	10.0	13.3
e	14.0	18.7
g	2.5	3.3
h	5.0	6.7

T9

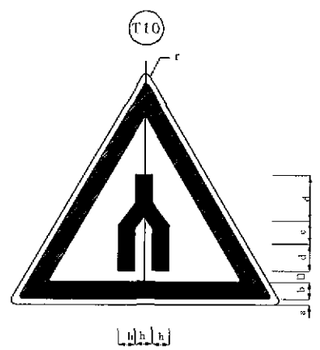


DUAL CARRIAGEWAY STARTS

DIMENSION(cm)

PARTS	SIGN SIZE	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	4.5	6.0
d	15.0	20.0
e	9.0	12.0
g	12.0	16.0
h	9.0	12.0
i	7.0	9.3

T10



DUAL CARRIAGEWAY ENDS

DIMENSION(cm)

PARTS	SIGN SIZE	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	4.0	5.30
d	15.0	20.0
e	9.0	12.0
g	12.0	16.0
h	9.0	12.0
i	7.0	9.3

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS NOTED OTHERWISE.

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NOK KUNDI TO MASH KHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEBRUK INTERNATIONAL (PVT) LTD
3rd Floor, Yiane Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-9338213-4, FAX: 051-9338215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

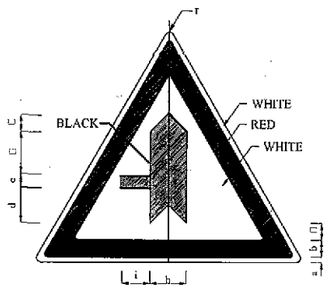
TRAFFIC SIGNS DETAILS-1

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	
DRAWN BY:	SCALE:
AKHTAR	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/GEN/08A

T11

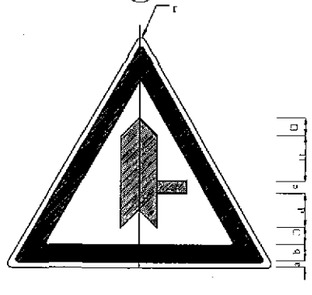


MINOR ROAD FROM LEFT

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	3.0	4.0
d	13.5	18.0
e	5.5	7.3
f	15.0	20.0
g	7.0	9.3
h	14.0	18.7
i	10.5	14.0

T12

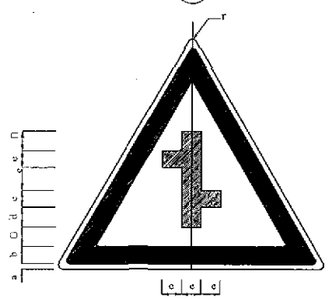


MINOR ROAD FROM RIGHT

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	3.0	4.0
d	13.5	18.0
e	5.5	7.3
f	15.0	20.0
g	7.0	9.3
h	14.0	18.7
i	10.5	14.0

T13

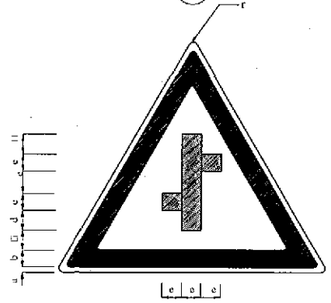


MINOR ROAD CROSSING WITH AN OFFSET

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	2.5	3.3
d	8.0	10.7
e	7.5	10.0
f	9.0	12.0

T11

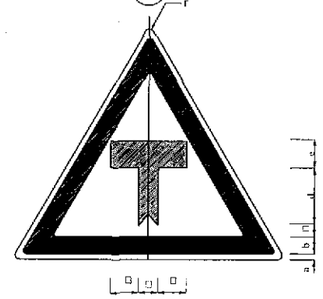


MINOR ROAD CROSSING WITH AN OFFSET

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	2.5	3.3
d	8.0	10.7
e	7.5	10.0
f	9.0	12.0

T15

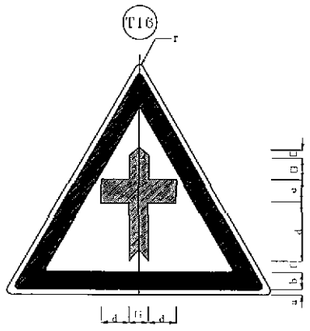


T- JUNCTION AHEAD

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	3.0	4.0
d	15.5	20.7
e	7.0	9.3
f	5.0	6.7
g	11.0	14.7
h	2.5	3.3

T16

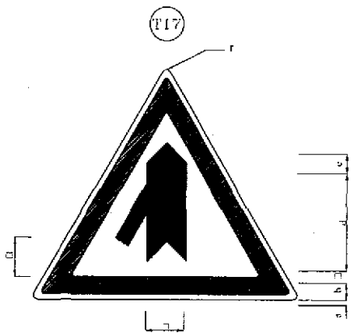


CROSS ROAD AHEAD

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	3.0	4.0
d	13.0	17.3
e	7.0	9.3
f	10.0	13.3
g	2.5	3.3
i	5.0	6.7

T17

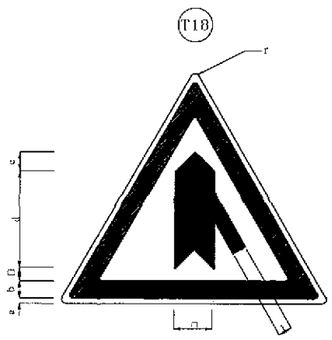


MINOR ROAD MERGES FROM LEFT

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	3.5	4.7
d	33.0	44.0
e	7.0	9.3
f	14.0	18.7
g	15.0	20.0
h	3.0	4.0
i	5.5	7.3

T18

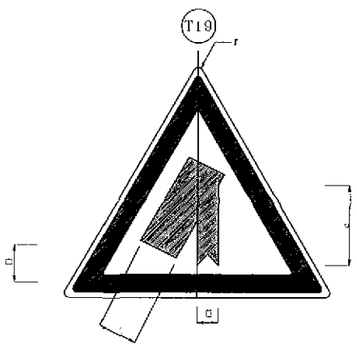


MINOR ROAD MERGES FROM RIGHT

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	3.5	4.7
d	33.0	44.0
e	7.0	9.3
f	14.0	18.7
g	15.0	20.0
h	3.0	4.0
i	5.5	7.3

T19

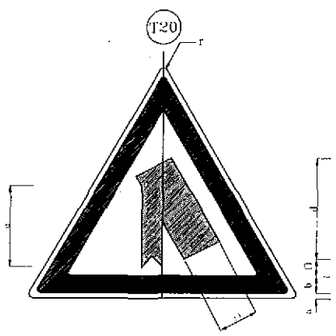


MAIN ROAD AHEAD (ON LEFT)

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	2.5	3.3
d	39.0	52.0
e	27.0	36.0
f	13.0	17.3
g	5.0	6.7

T20



MAIN ROAD AHEAD (ON RIGHT)

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	2.5	3.3
d	39.0	52.0
e	27.0	36.0
f	13.0	17.3
g	5.0	6.7

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS NOTED OTHERWISE.

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NOK KUNDI TO MASH KHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEBRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

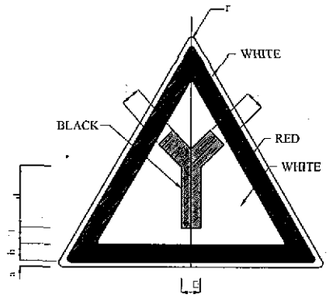
TRAFFIC SIGNS DETAILS-2

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	
DRAWN BY: AKHTAR	SCALE: N.T.S
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/GEN/08B

T21

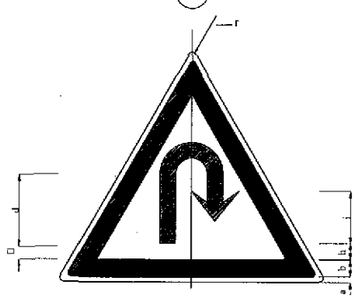


Y-JUNCTION AHEAD

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	3.0	4.0
d	17.0	22.7
e	13.0	17.3
f	7.0	9.3

T22

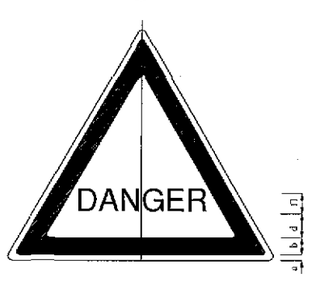


U-TURN AHEAD

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	3.5	7.3
d	7.0	9.3
e	5.0	6.7
f	2.5	3.3
g	23.0	30.7
h	7.5	10.0
i	12.0	16.0

T23

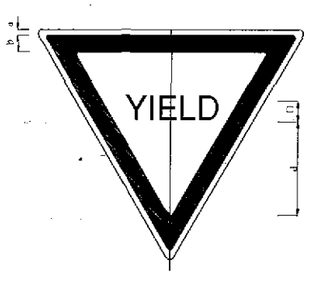


DANGER WARNING

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	6.5	8.7
d	7.0	9.5

T24

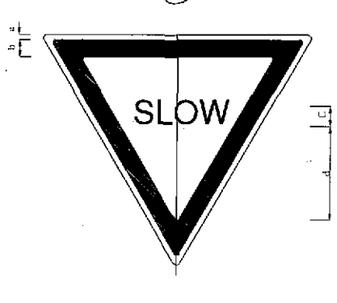


GIVE A WAY

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	6.5	8.7
d	16.0	21.3

T25

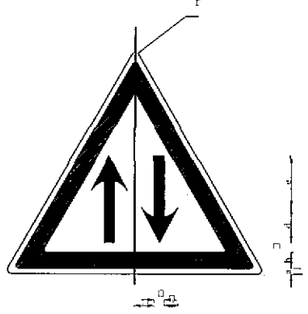


SLOW

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	6.5	8.7
d	16.0	21.3

T26

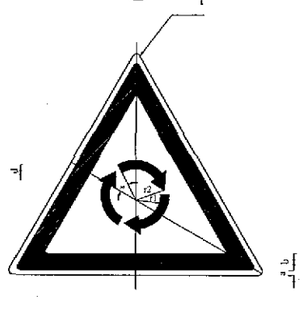


TWO WAY TRAFFIC AHEAD

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	4.0	8.7
d	9.0	21.3
e	19.0	21.3
f	5.0	21.3
g	3.5	21.3

T27

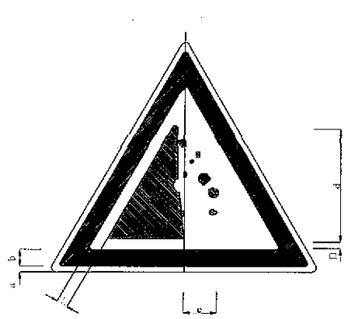


ROUNDABOUT

DIMENSION(cm)

PARTS	Sign Size	
	90cm	
r	3.5	120
a	1.0	-
b	6.5	-
c	3.0	-
d	9.0	-
r1	12.0	-
r2	16.0	-

T28

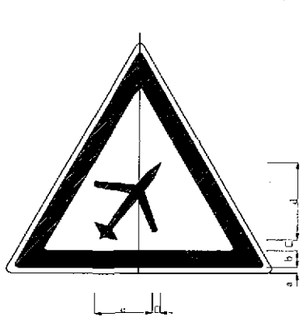


FALLING ROCKS

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	3.5	4.7
d	38.0	50.7
e	12.0	18.0

T29



LOW FLYING AIRCRAFT

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
r	3.5	4.7
a	1.0	1.3
b	6.5	8.7
c	2.5	3.3
d	27.5	36.7
e	16.0	21.3
f	10.5	14.0

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS NOTED OTHERWISE.

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NOK KUNDI TO MASH KHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEFRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

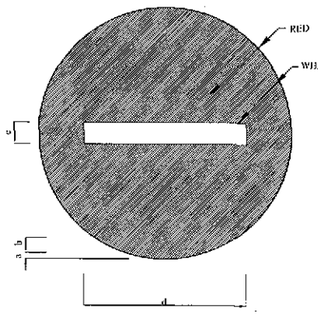
TRAFFIC SIGNS DETAILS-3

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	
DRAWN BY:	SCALE:
AKHTAR	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/GEN/08C

C1

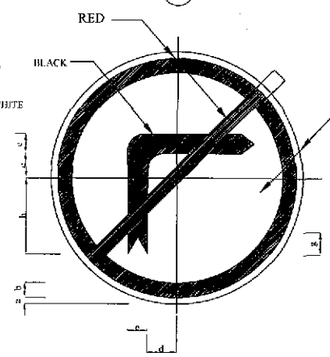


NO ENTRY

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
a	1.0	1.3
b	4.0	5.3
c	8.0	10.7
d	64.0	85.3

C2

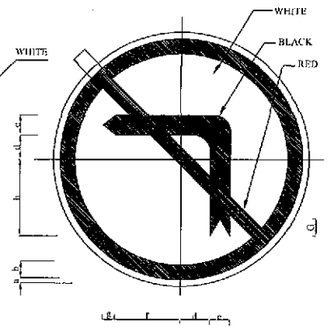


NO RIGHT TURN

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
a	1.0	1.3
b	6.5	8.7
c	5.5	7.3
d	6.0	8.0
e	10.0	13.3
f	25.0	33.3
g	5.0	6.7
h	30.0	40.0

C3

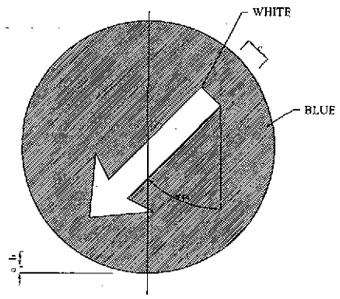


NO LEFT TURN

DIMENSION(cm)

PARTS	SIGN SIZE	
	90cm(C13)	120cm(C7)
a	1.0	1.3
b	6.5	8.7
c	5.5	7.3
d	6.0	8.0
e	10.0	13.3
f	25.0	33.3
g	5.0	6.7
h	30.0	40.0

C4

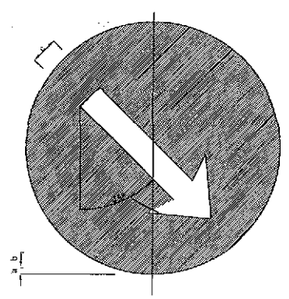


KEEP LEFT

DIMENSION(cm)

PARTS	SIGN SIZE	
	90cm(C4)	120cm(C3)
a	1.0	1.3
b	4.0	5.3
c	8.0	10.7
d	9.0	12.0
e	32.0	42.7
f	23.0	30.7
g	4.5	6.0

C5

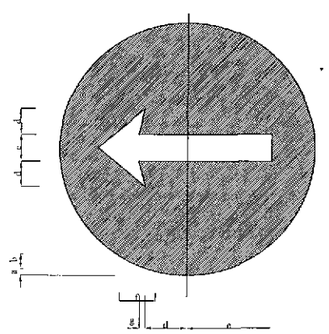


KEEP RIGHT

DIMENSION(cm)

PARTS	SIGN SIZE	
	90cm(C4)	120cm(C3)
a	1.0	1.3
b	4.0	5.3
c	8.0	10.7
d	9.0	12.0
e	32.0	42.7
f	23.0	30.7
g	4.5	6.0

C6

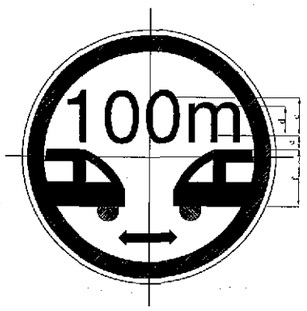


TURN LEFT

DIMENSION(cm)

PARTS	SIGN SIZE	
	90cm(C4)	120cm(C3)
a	1.0	1.3
b	4.0	5.3
c	8.0	10.7
d	9.0	12.0
e	32.0	42.7
f	23.0	30.7
g	4.5	6.0

C9

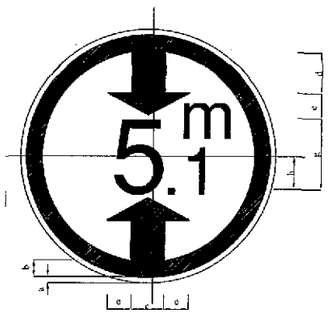


MIN. DISTANCE BETWEEN VEHICLES

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
a	1.0	1.3
b	6.5	8.7
c	16.0	21.3
d	8.0	10.5
e	2.0	2.67
f	18.0	24.0
g	30.0	40.0
h	11.0	14.5

C10

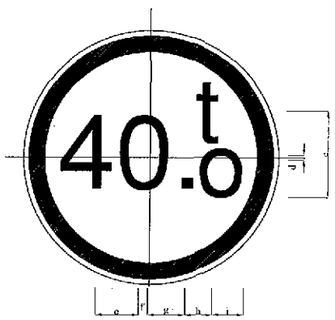


MIN. VERTICAL CLEARANCE

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
a	1.0	1.3
b	6.5	8.7
c	13.5	18.0
d	12.5	17.0
e	8.5	11.5
f	31.0	41.0
g	24.5	32.5
h	12.5	16.5

C11

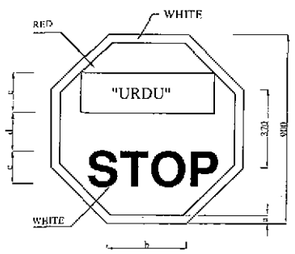


MAX. GROSS WEIGHT LIMIT

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
a	1.0	1.3
b	6.5	8.67
c	32.0	42.50
d	2.5	3.50
e	17.0	22.50
f	1.5	2.0
g	17.0	22.50
h	3.5	4.50
i	10.0	13.50

C12



STOP

DIMENSION(cm)

PARTS	Sign Size	
	90cm	120cm
a	1.0	1.30
b	37.0	49.5
c	20.0	25.0
d	15.0	20.0
e	36.0	43.0
f	90.0	120.0

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS NOTED OTHERWISE.

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NOK KUNDI TO MASH KHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Three Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

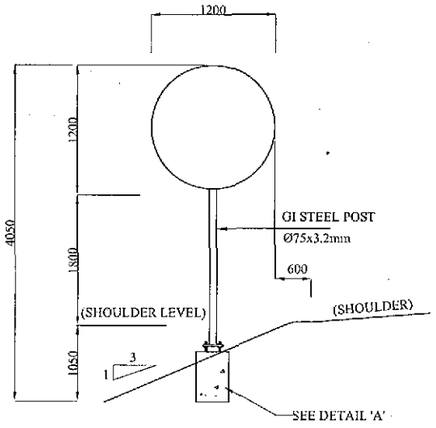
DRAWING TITLE:

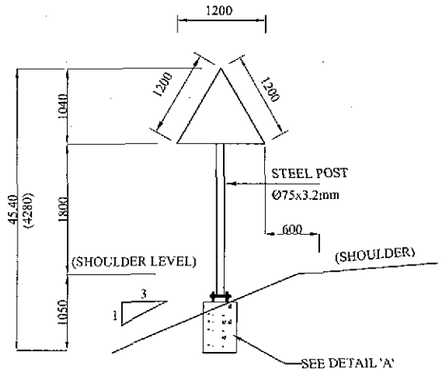
TRAFFIC SIGNS DETAILS-4

DESIGN BY: AYESHA SHABBIR	SHEET NO:
DRAWN BY: AKHTAR	SCALE: N.T.S
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

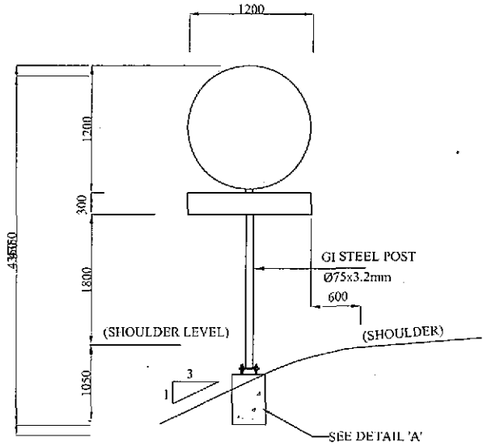
CAD FILE NAME:

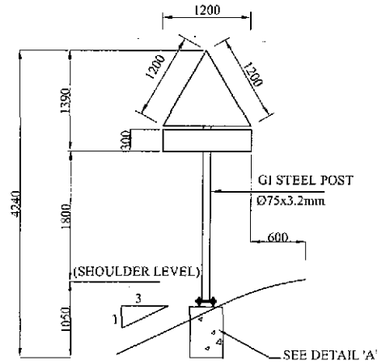
ZI/KA/NK/GEN/08D



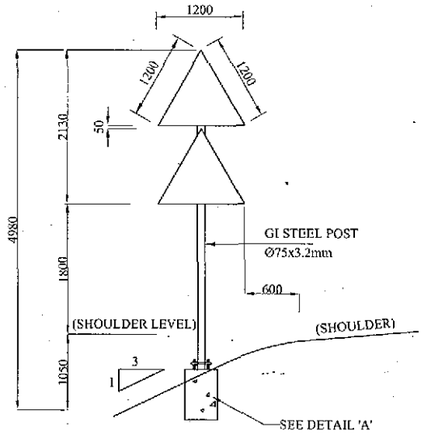


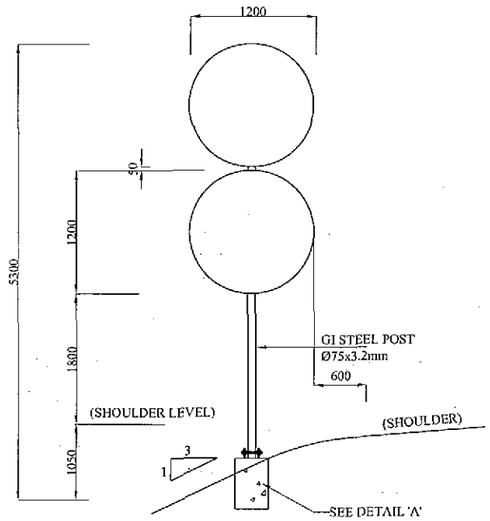
SINGLE SIGNS



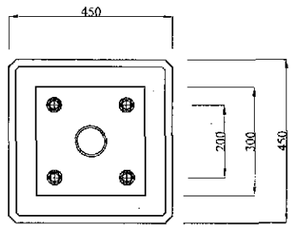


SINGLE SIGNS WITH ADDITIONAL PLATE

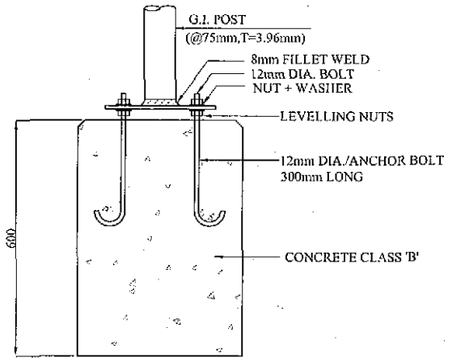




DOUBLE SIGNS



PLAN



SECTION

DETAIL "A"
PRECAST CONCRETE FOUNDATION
(TYPE-I)

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS NOTED OTHERWISE.

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NOK KUNDI TO MASH KHEL

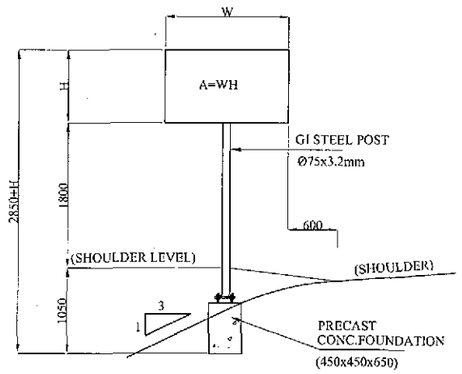
CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Fine Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938313-4, FAX: 051-4938315
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

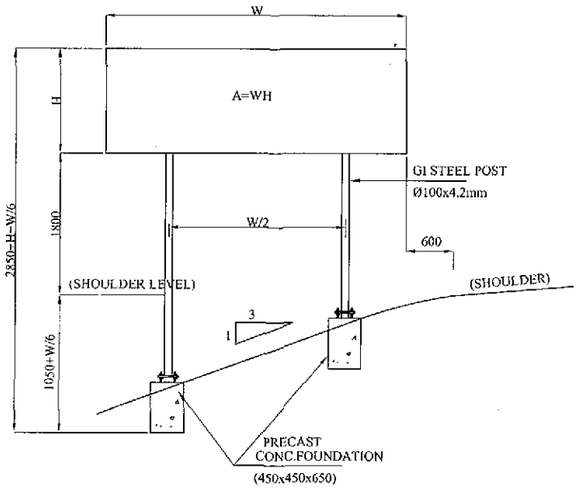
DRAWING TITLE:
CONSTRUCTION DETAILS OF TRAFFIC SIGN-1

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	
DRAWN BY: AKHTAR	SCALE: N.T.S
CHECKED BY: ZAFAR ALI	DATE: NOV. 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

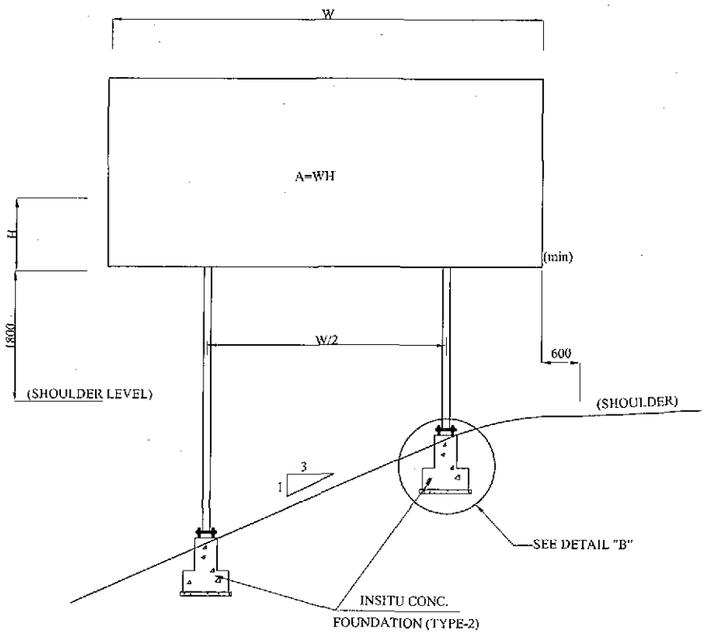
CAD FILE NAME:
ZI/KA/NK/GEN/09A



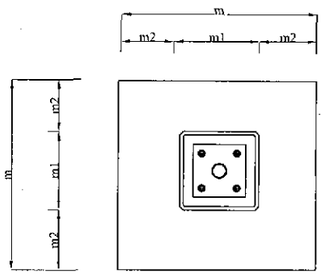
SINGLE POST (A<1.5m.^{2})



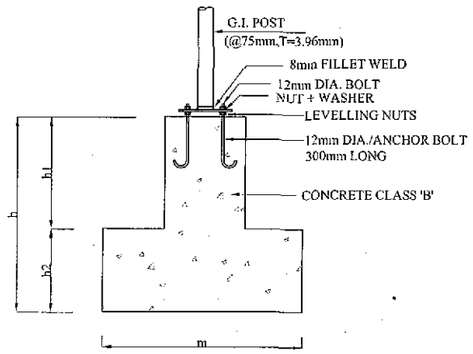
DOUBLE POST (A<3m.^{2})
FOUNDATION TYPE-1



DOUBLE POST (A<20m.^{2})
FOUNDATION TYPE-2



PLAN



DETAIL "B"

PRECAST CONCRETE FOUNDATION
(TYPE-2)

TABLE - 1

AREA OF SIGN BOARD (A) (M)^2	DIMENSION (M M)					
	m_1	m_2	m	h_1	h_2	h
3<A≤5	450	325	1100	600	400	1000
5<A≤10	600	400	1400	750	450	1200
10<A≤15	700	450	1600	900	500	1400
15<A≤20	800	500	1800	1050	550	1600

LIST OF FOUNDATION SIZE

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS NOTED OTHERWISE.

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NOK KUNDI TO MASH KHEL

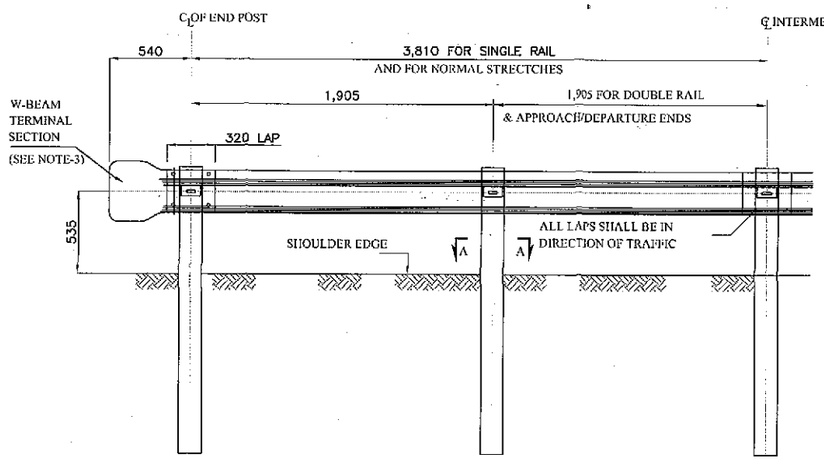
CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

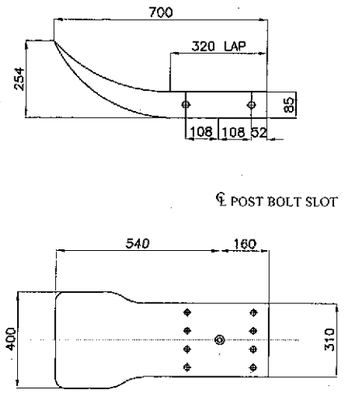
DRAWING TITLE:
CONSTRUCTION DETAILS OF TRAFFIC SIGN-2

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	
DRAWN BY:	SCALE:
AKHTAR	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

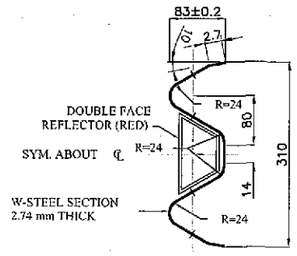
CAD FILE NAME:
ZI/KA/NK/GEN/09B



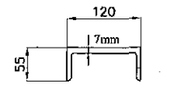
TYPICAL ELEVATION AT DEPARTURE END



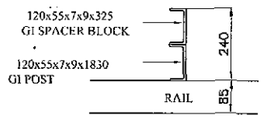
W-BEAM TERMINAL SECTION
(AT DEPARTURE END)



SECTION THROUGH
W BEAM RAIL
(TYPE-1, CLASS B)



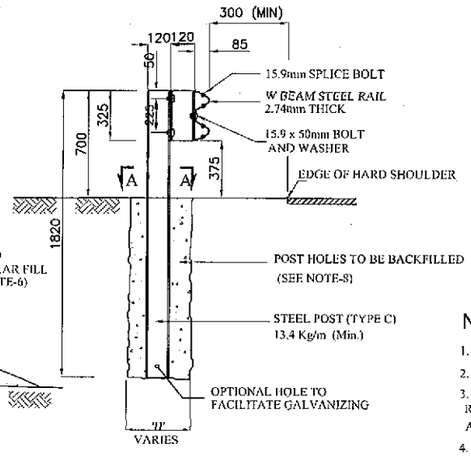
SECTION A-A



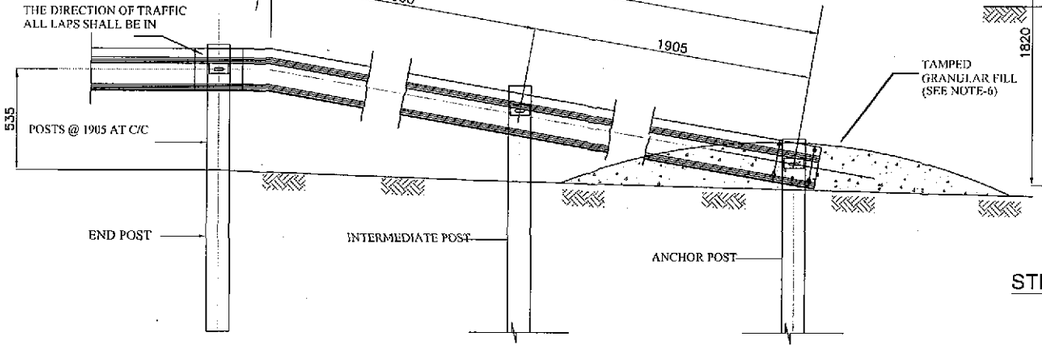
DETAIL - B

List of Guardrail
NAUKANDI MASHKHEL ROAD

Start	End	Start	End
10+060	10+340	102+500	102+560



STEEL POST FOR GUARD RAIL

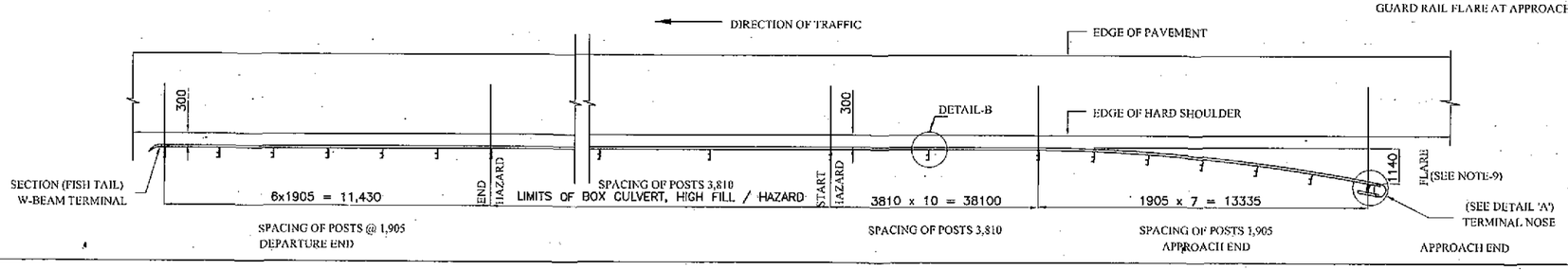


TYPICAL END RAIL ANCHORAGE
AT APPROACH END

NOTES:-

1. ALL DIMENSIONS ARE IN MILLIMETERS. UNLESS NOTED OTHERWISE.
2. ALL LAPS SHALL BE IN THE DIRECTION OF TRAFFIC.
3. W-BEAM TERMINAL SECTIONS SHALL BE USED IN PLACE OF END ANCHORAGE RAIL AT THE DEPARTURE END ONLY OR AT OTHER RESTRICTED LOCATIONS AS APPROVED BY THE ENGINEER.
4. W-BEAM RAIL SECTION SHALL COMFORM TO AASHTO M-180 AND SHALL BE TYPE-1, CLASS B, WHEREAS POST SHALL BE TYPE 'C' (STRONG POST).
5. WHERE THE GUARDRAIL HAS TO FOLLOW A CURVE OF LESS THAN 45m RADIUS, THE BEAM SHALL BE CURVED TO SUIT, BY THE BEAM MANUFACTURER.
6. THE HOLES FOR ANCHORAGE POSTS SHALL BE BACKFILLED WITH WELL COMPACTED GRANULAR MATERIAL. THE SPACE INSIDE THE TERMINAL NOSE SHALL BE FILLED WITH CONCRETE.
7. CONTRACTOR SHALL PREPARE DRAWINGS SHOWING LOCATION, ELEVATIONS AND SPACING OF POSTS AT EACH CULVERT/HIGH FILL LOCATION AND SHALL OBTAIN ENGINEER'S APPROVAL.
8. BACKFILLING OF THE POST HOLES WILL BE CARRIED OUT AS FOLLOWS:
   - IN CASE OF ROCK, CORED HOLES-250 DIA (AS MADE) WILL BE BACKFILLED WITH LEAN CONCRETE.
   - IN CASE OF STRATA OTHER THAN ROCK, HOLES-300 DIA (AS MADE) WILL BE BACKFILLED WITH LEAN CONCRETE OR THE POSTS MAY BE HAMMERED IN PLACE AS APPROVED BY THE ENGINEER.
   NO EXTRA PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR CORING AND OR CONCRETEING FOR POST FIXATION.
9. EXISTING EMBANKMENT MAY BE WIDENED, WHERE NECESSARY, TO ACCOMODATE GUARD RAIL FLARE AT APPROACH END.

GUARD RAIL FOR BOX CULVERTS, HIGH FILL (>3m) OR HAZARD



NOTES

1. ALL DIMENSION ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. ONLY APPLICABLE WHERE EMBANKMENT FILL IS MORE THEN 3.5m

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NOK KUNDI TO MASH KHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEERUK INTERNATIONAL,(PVT) LTD
3rd Floor, Time Square Plaza
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

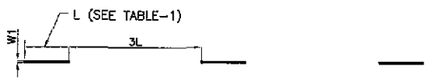
DRAWING TITLE:
GUARD RAIL DETAILS AND SCHEDULE OF GUARD RAIL

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	
DRAWN BY:	SCALE:
AKHTAR	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/GEN/10

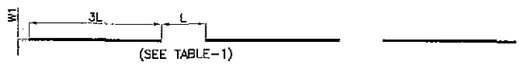
PAVEMENT MARKING LINES

FOR DIMENSIONS L & W1 TO W5, SEE TABLE-1



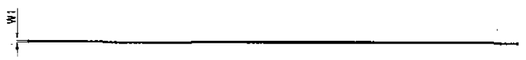
L1 - BROKEN GUIDE LINE-WHITE

AT CENTERLINE OF DIVIDED 2-LANE RAMPS AND LANE SEPARATION OF MOTORWAY



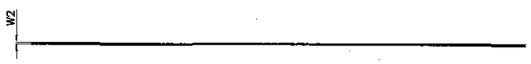
L2 -BROKEN WARNING LINE -WHITE

AT APPROACHES TO DANGER (e.g Roundabouts, T-junctions and steep slopes at ramps)



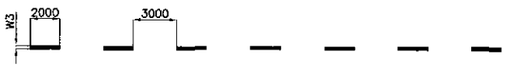
L3 - CONTINUOUS LINE - WHITE

AT NO PASSING ZONES ALONG RAMPS & FLYOVER



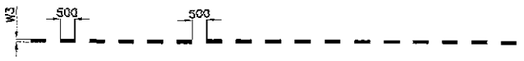
L4 - CONTINUOUS EDGE LINE -YELLOW

AT EDGE OF PAVEMENT AT ALL LOCATIONS



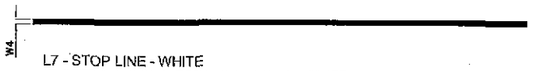
L5 - DASHED LINE - WHITE

AT SEPARATION OF THROUGH LANES FROM ACCELERATION LANE



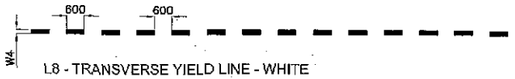
L6 - DOTTED LINE - WHITE

FOR DEFINING VEHICLE PATHS WITHIN INTERSECTIONS AT RAMPS



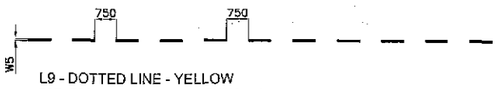
L7 - STOP LINE - WHITE

AT INTERSECTIONS ACROSS PAVEMENT AT RAMPS



L8 - TRANSVERSE YIELD LINE - WHITE

AT INTERSECTIONS ACROSS PAVEMENT IN THE SAME POSITION AS L7 LINE TO INDICATE GIVE WAY

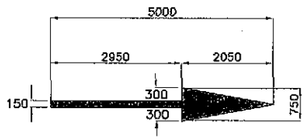


L9 - DOTTED LINE - YELLOW

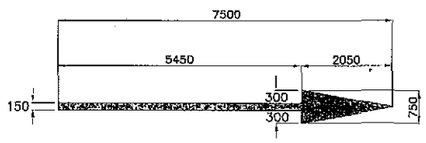
FOR EDGE LINE WHERE PARKING BAYS ARE PROVIDED OUTSIDE THE LANE

LANE SELECTION ARROWS - WHITE

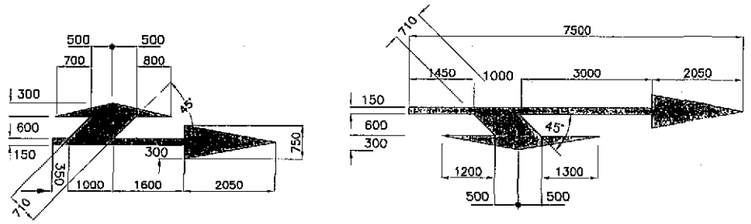
(ACCESS RAMPS)



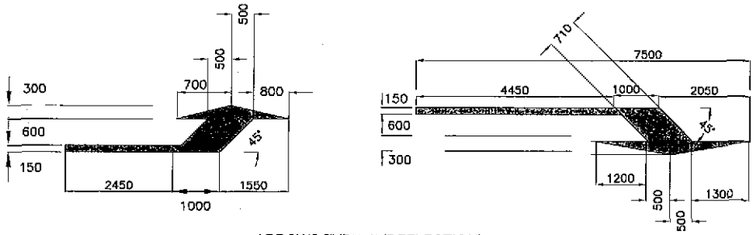
(MOTORWAY)



ARROWS TYPE-I (STRAIGHT)



ARROWS TYPE-II (COMBINED)



ARROWS TYPE-III (DEFLECTION)

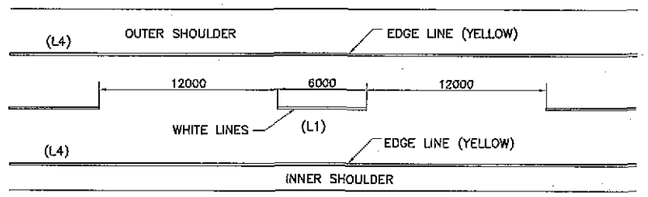
TABLE - 1

ROADWAY TYPE	L (mm)	W1	W2	W3	W4	W5
SERVICE ROAD	2000	100	120	300	300	100
FLYOVER/Interchange/ OTHER CROSS ROADS	4000	120	150	150	300	100
RING ROAD	8000	150	150	450	-	-

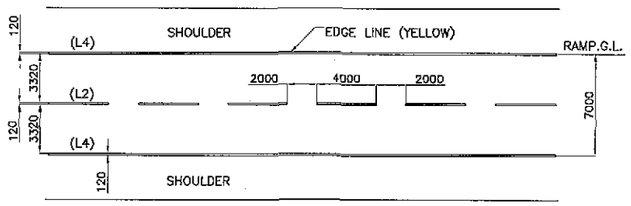
Retroreflective Raised Pavement Markers (RRPM)		
Categories		Spacing
RRPM on White Center Dashed Lane	Lane Lines & Dividing Lanes	24 m C/C
	Curves of 400 m or less	12 m C/C
	Traffic Islands, Medians, Seperator	4 m to 12 m C/C
RRPM on Yellow Edge Lanes	Yellow Shoulder (Inner/Outer)	24m to 36 m C/C
Longitudinal/ Transverse Spacing		
Categories		Spacing
RRPM on White Center Dashed Lane	Longitudinal Spacing from Edge of White Dashed Lane	1 m
RRPM on Yellow Edge Lanes	Transverse Spacing from Edge of Continues Yellow Shoulder Lane (Inner/Outer)	25 mm to 50 mm
Categories		Spacing
RRPM on all Interchanges Entry & Exits	Longitudinal Spacing Pavement Chevron Marking (Yellow)	6 m C/C

NOTE - 2

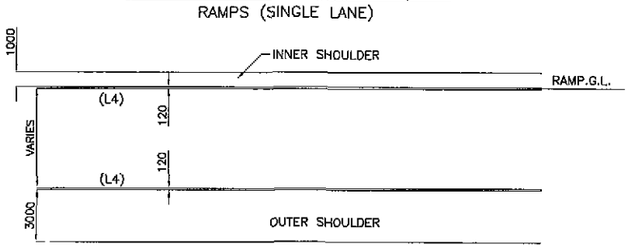
TYPICAL MARKING



TYPICAL MARKING AT TWO LANE RAMP (AT APPROACHES TO HAZARDS)



TYPICAL MARKING AT ONE WAY RAMPS (SINGLE LANE)



NOTE :-

1- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

2- THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS FOR APPROVAL OF THE ENGINEER.

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NOK KUNDI TO MASH KHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

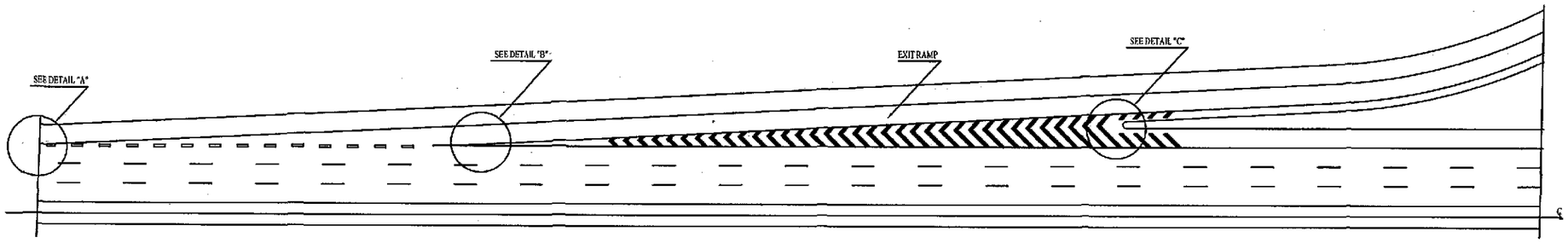
DRAWING TITLE:

PAVEMENT MARKING DETAIL-I

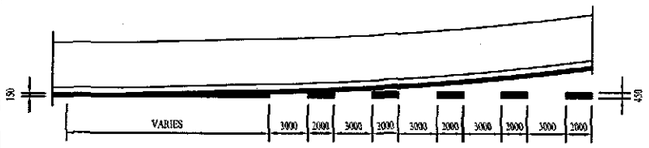
DESIGN BY:	SHEET NO:
AYESHA SHABBIR	
DRAWN BY: AKHTAR	SCALE: N.T.S
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

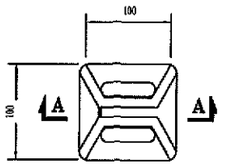
ZI/KA/NK/GEN/11A



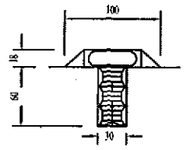
DECELERATION LANE



DETAIL "A"

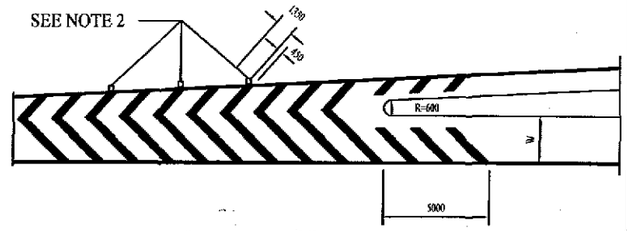


PLAN

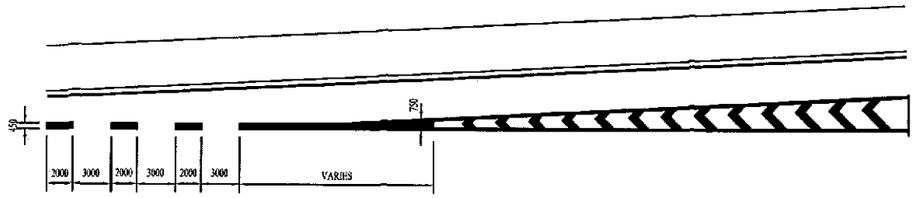


SECTION A–A

REFLECTORISED PAVEMENT STUD (RAISED PROFILE TYPE)

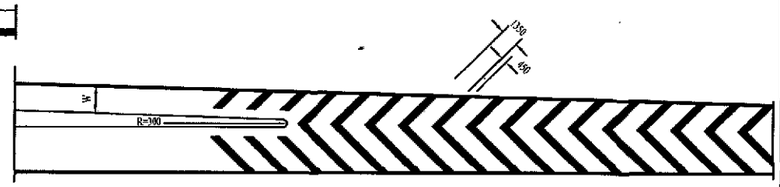


DETAIL "C"

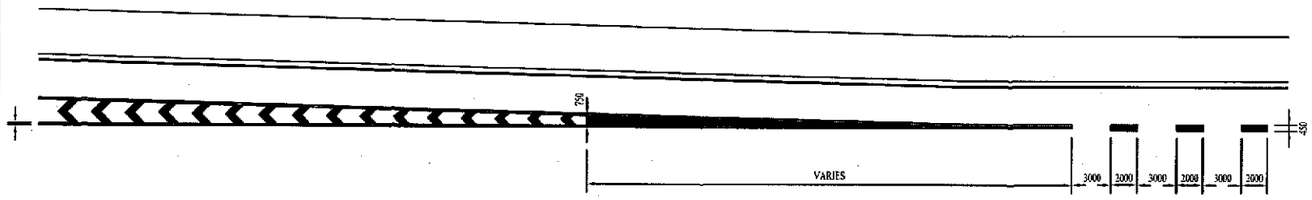


DETAIL "B"

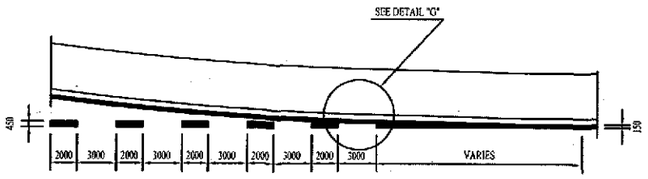
DETAIL "G"



DETAIL "D"



DETAIL "E"



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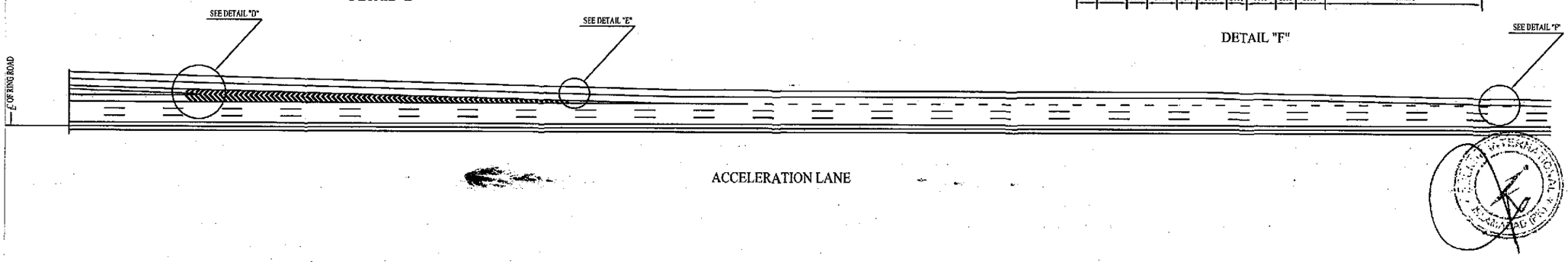

ACCELERATION LANE

NOTES

REV.	REVISION/ISSUE	DATE
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00		

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NATIONAL HIGHWAY AUTHORITY
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CONSULTANT:

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3rd Floor, Fima Square Plaza,
I-8 Markaz, Islamabad
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS

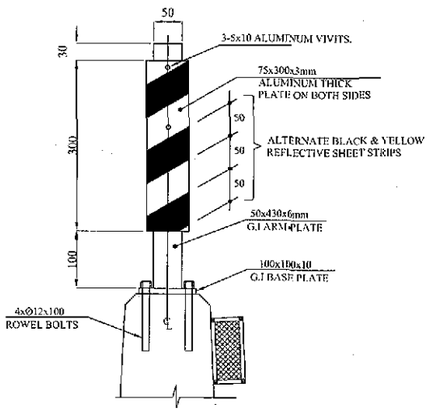
DRAWING TITLE:

PAVEMENT MARKING
DETAIL-2

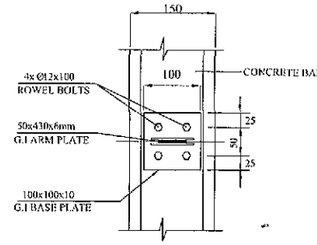
DESIGN BY: AYESHA SHABBIR	SHEET NO:
DRAWN BY: AKHTAR	SCALE: N.T.S
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV 00

CAD FILE NAME:

ZI/KA/NK/GEN/11B

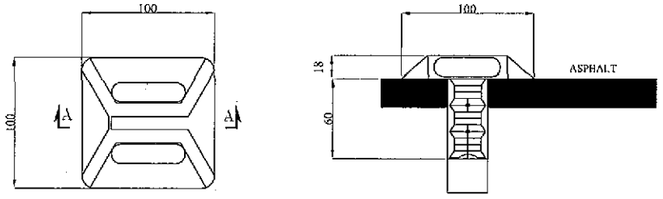


ELEVATION



PLAN

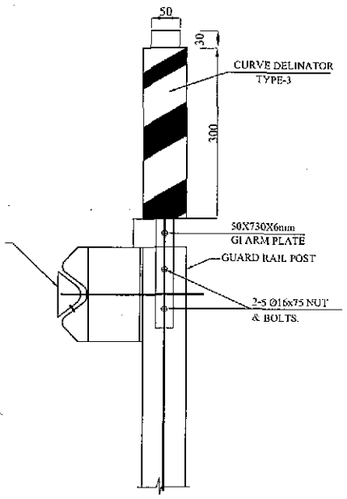
CURVE DELINEATOR TYPE-2
(RIGID TYPE)



PLAN

SECTION A-A

REFLECTORISED PAVEMENT STUD
(RAISED PROFILE TYPE)



GUARD RAIL REFLECTOR

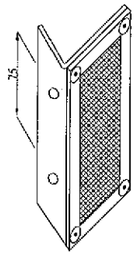
SPACING:

FOR SHORT STRETCHES AT EACH END PLUS MIN. TWO INTERMEDIATE

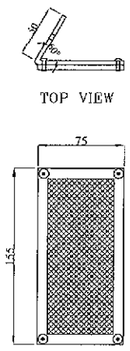
FOR LONG STRETCHES: EACH 6 SPANS ON TANGENTS, 4 SPANS ON CURVES.

REFLECTING SIDE

-ONE REFLECTING SIDE FOR MOTORWAY AND ONE WAY RAMPS/TWO REFLECTING SIDE FOR FLYOVERS AND TWO WAY RAMPS.



ISOMETRIC VIEW

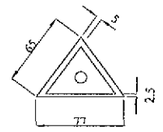


TOP VIEW

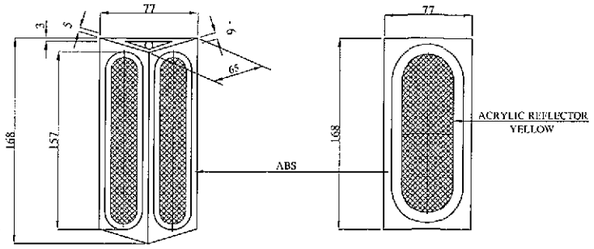
FRONT VIEW

CONCRETE BARRIER REFLECTOR
(TYPE-1)

(TO BE FIXED WITH CONCRETE BARRIER USE 2xØ10x75 ROWEL BOLTS)



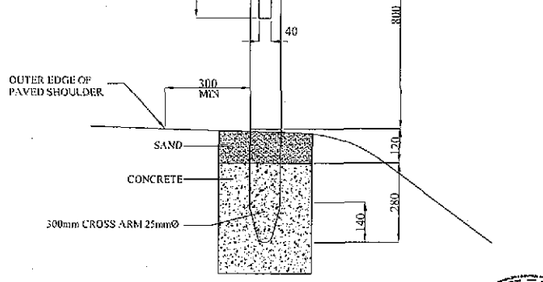
PLAN VIEW



FRONT VIEW

PLAN VIEW

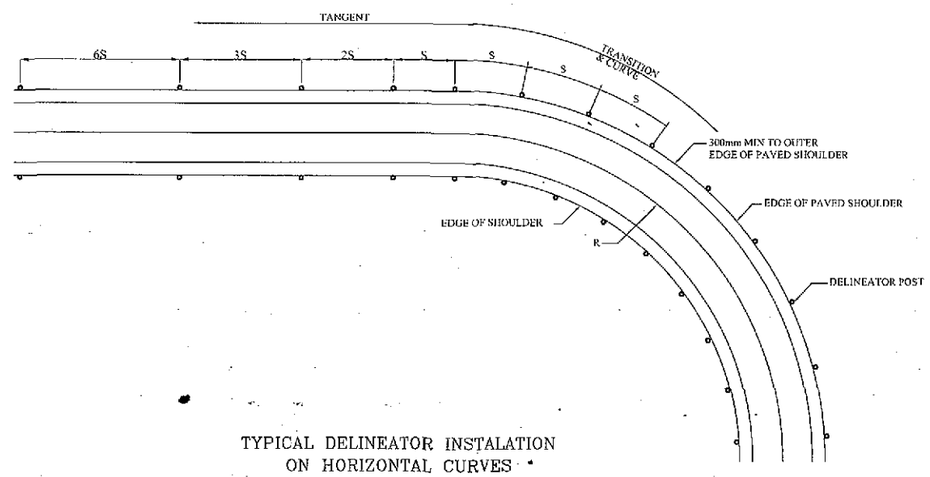
CONCRETE BARRIER REFLECTOR
(TYPE-2)



CURVE DELINEATOR (TYPE-1)

(FLEXIBLE TYPE)
(ALONG SHOULDER EDGES WHEN NO RAIL OR BARRIER IS FIXED)

CURVE RADIUS R (m)	SPACING ON CURVE (S) (m)
500 & ABOVE	50
300	30
200	20
100	15
50	10
25	8



TYPICAL DELINEATOR INSTALATION
ON HORIZONTAL CURVES

NOTES

1 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

2 - DELINEATOR TYPE-1 SHALL BE FIXED AT OUTER EDGE OF C/WAY WHERE NO RAIL OR BARRIER IS FIXED.

3 - DELINEATORS TYPE-2 SHALL BE FIXED AT MEDIAN BARRIER ALONG CURVES AT BARRIER ALONG BRIDGES INCLUDING 100m APPROACH AND AT OTHER HAZARDUOUS LOCATIONS AS DIRECTED AT EACH END BY THE ENGINEER.

4 - SPACING OF DELINEATOR TYPE-2 SHALL BE SAME AS THAT TYPE-1

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETER UNLESS NOTED OTHERWISE.

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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

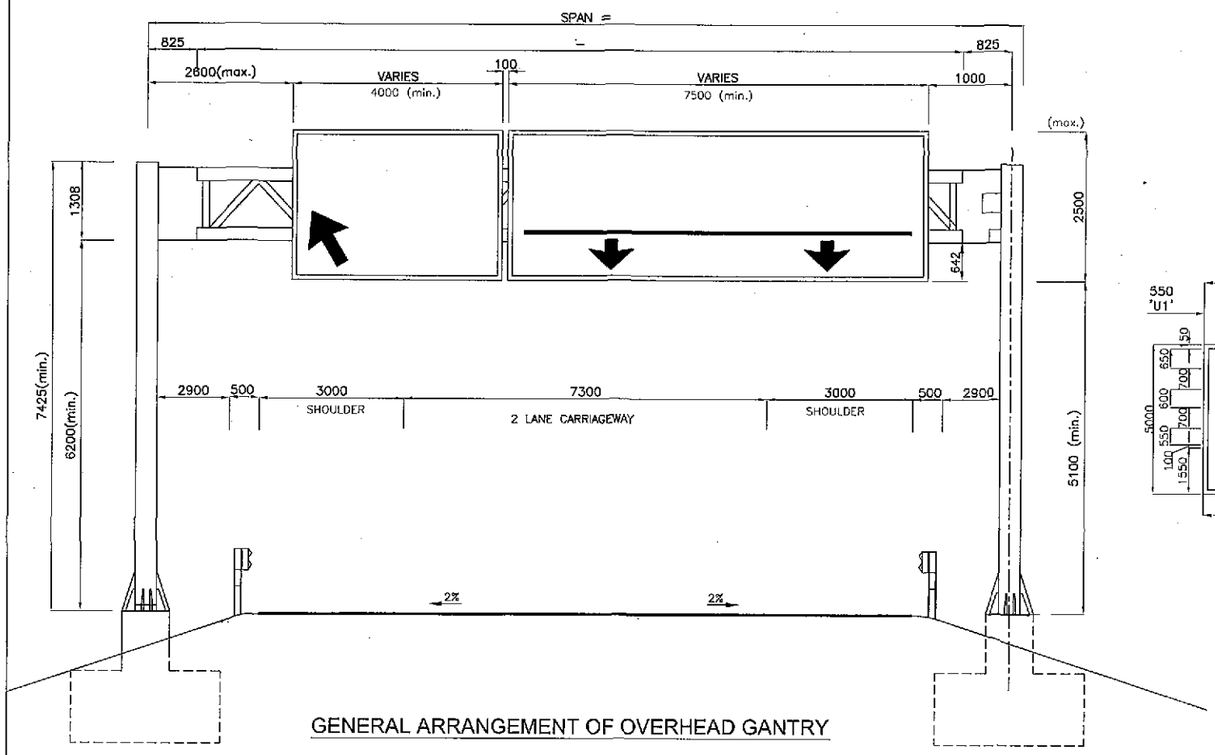
DRAWING TITLE:

REFLECTORS, STUDS AND DELINEATORS

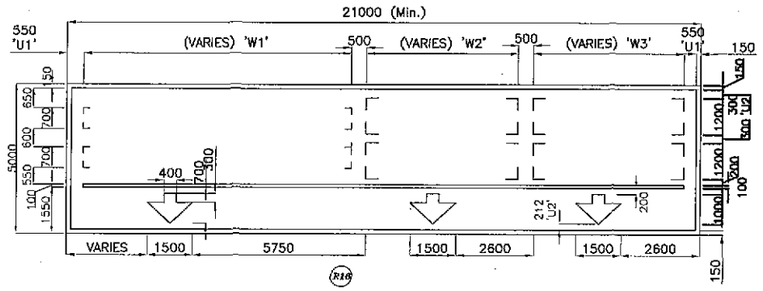
DESIGN BY:	SHEET NO:
AYESHA SHABBIR	
DRAWN BY:	SCALE:
AKHTAR	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV. 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

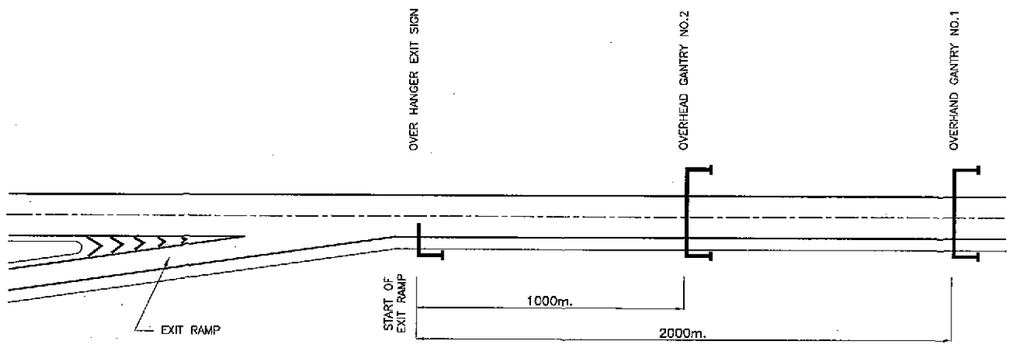
ZI/KA/NK/GEN/12



GENERAL ARRANGEMENT OF OVERHEAD GANTRY



OVERHEAD DESTINATION SIGN
AT GANTRY (TYP.FOR 3 LANES)
(2Km/1Km Short of exit ramp)



TYPICAL PLACEMENT OF OVERHEAD SIGNS AT EXIT RAMP

NOTES

ALL DIMENSION ARE IN METER UNLESS NOTED OTHERWISE.

LEGENDS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NOK KUNDI TO MASH KHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEBRUK INTERNATIONAL.(PVT) LTD
3rd Floor, Times Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

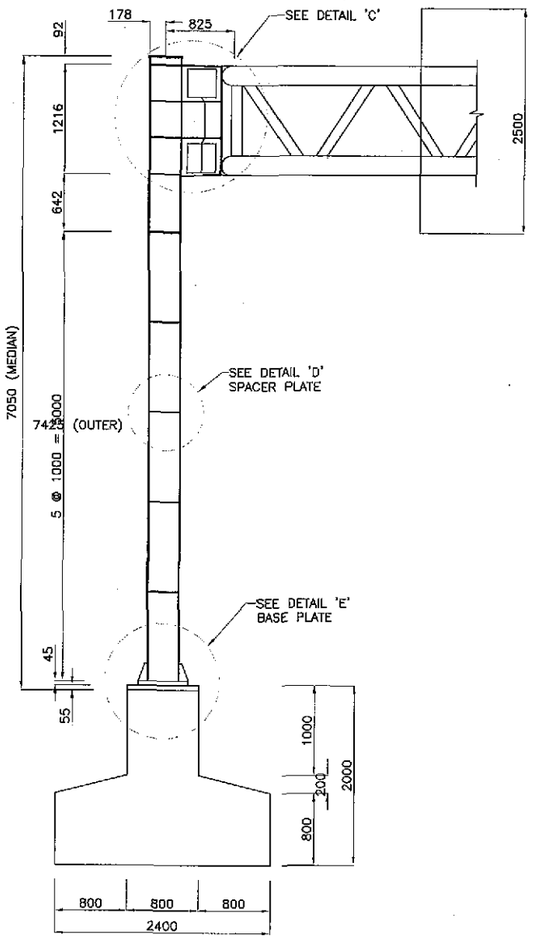
DRAWING TITLE:

GANTRY SIGN DETAIL

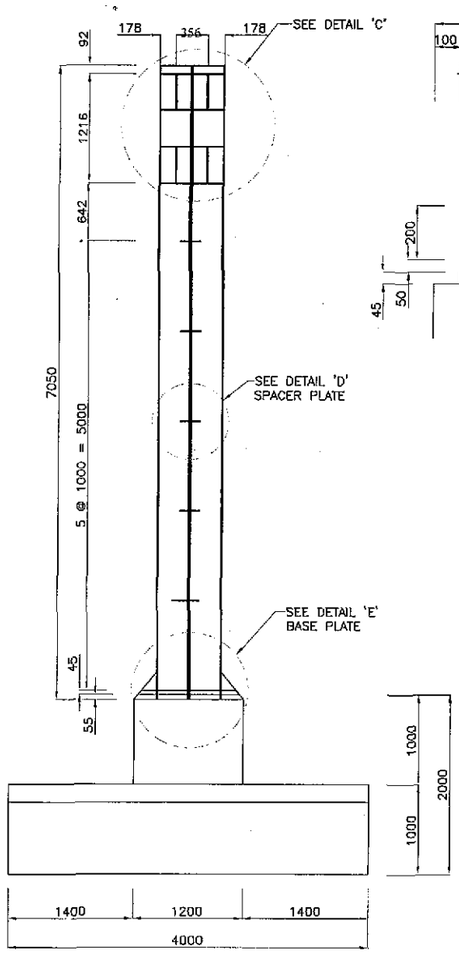
DESIGN BY:	SHEET NO:
AYESHA SHABBIR	01 TO 04
DRAWN BY:	SCALE:
AKHTAR	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

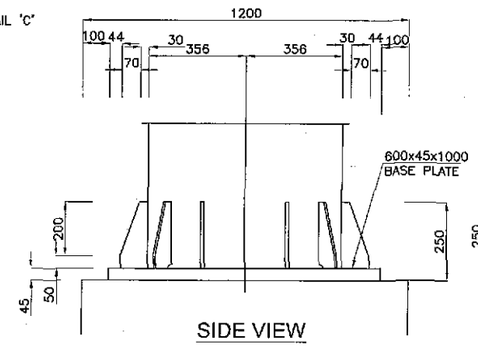
ZI/KA/NK/GEN/13-A



FRONT VIEW



SIDE VIEW



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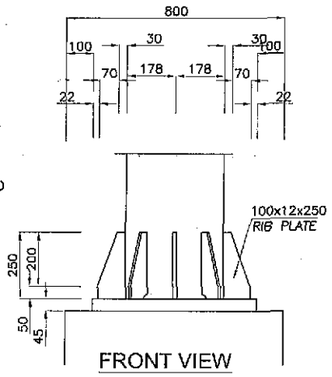

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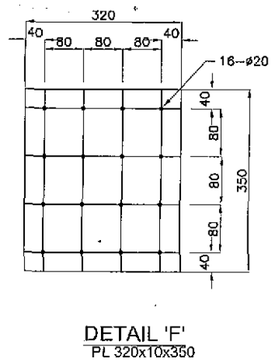
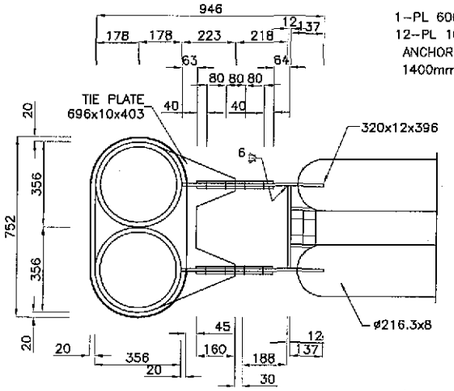
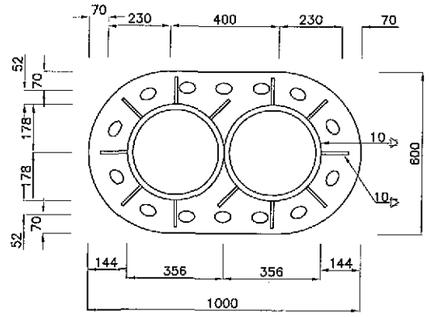


DETAIL 'F'
PL 320x10x350

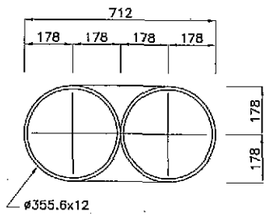


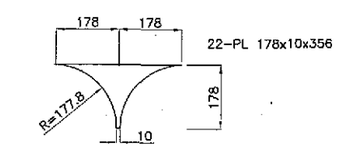
DETAIL 'C'(PLAN)

1--PL 600x45x1000
12--PL 100x12x250
ANCHOR BOLT ø40mm.
1400mm. LONG

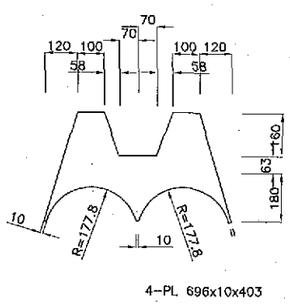


BASE PLATE

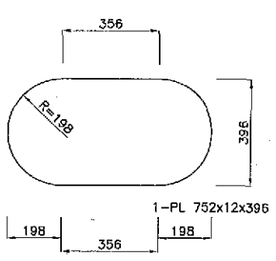




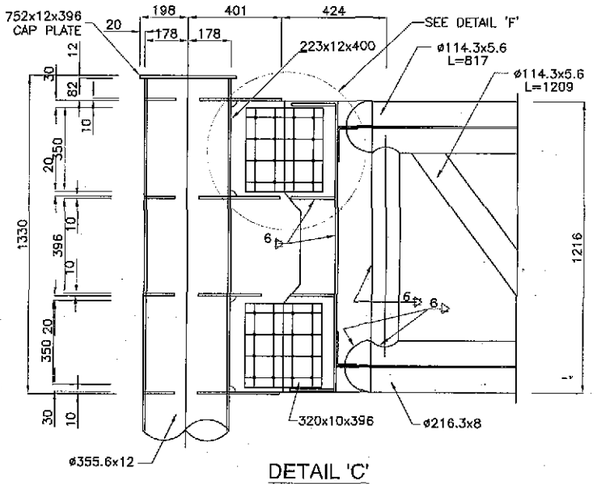
DETAIL 'D'
SPACER PLATE



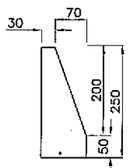
TIE PLATE



CAP PLATE



DETAIL 'C'



RIB DETAIL
DETAIL 'E'

DETAIL 'C' MATERIALS

TIE PLATE 4--PL 696x10x403
4--PL 223x12x400
8--PL 320x10x320
CAP 1--PL 752x12x396
4--PL 178x10x356
H.T.B FIOT – ø20 x70 : 64EA

NOTES

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LEGENDS

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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NOK KUNDI TO MASH KHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEBRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4438213-4, FAX: 051-4438215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

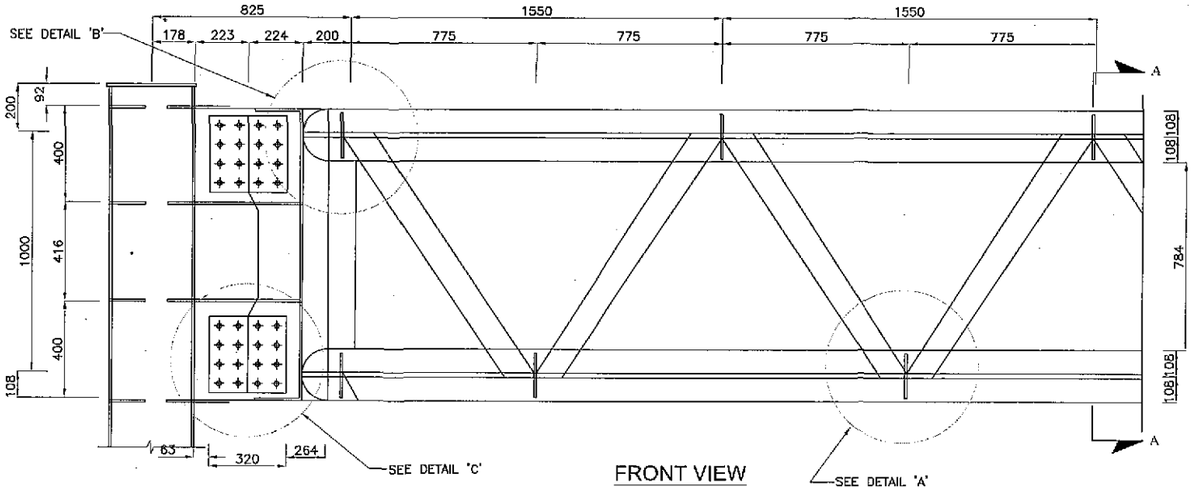
DRAWING TITLE:

GANTRY SIGN COLUMN DETAILS

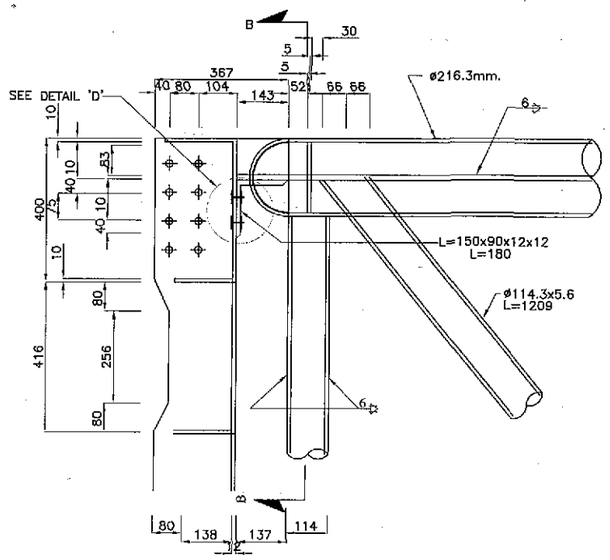
DESIGN BY:	SHEET NO:
AYESHA SHABBIR	02 TO 04
DRAWN BY:	SCALE:
AKHTAR	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

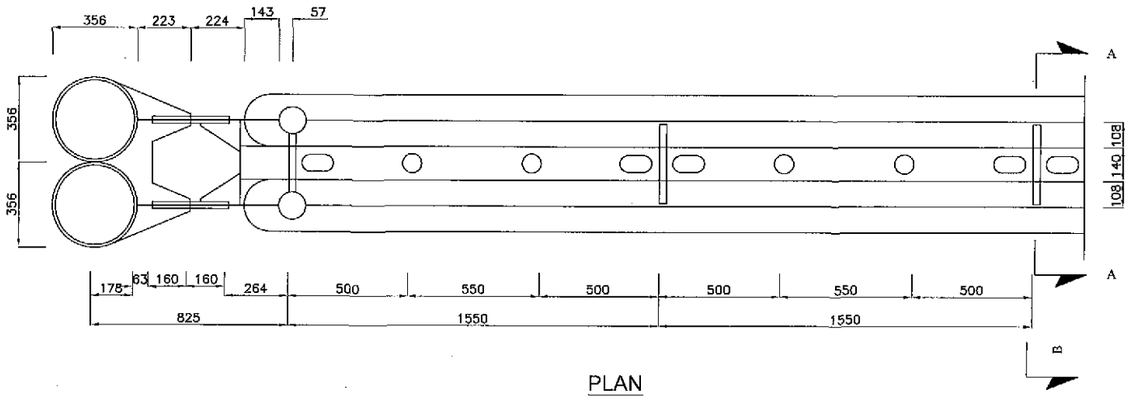
CAD FILE NAME:

ZI/KA/NK/GEN/13-B

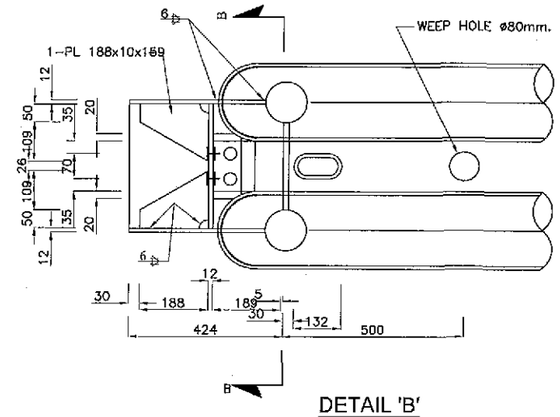


FRONT VIEW

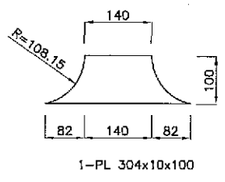




PLAN

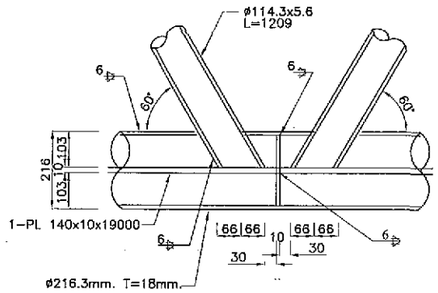


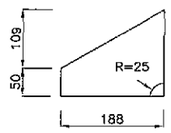
DETAIL 'B'



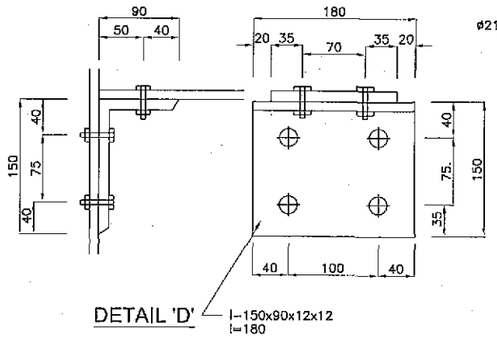
1-PL 304x10x100

RIB PL DETAIL

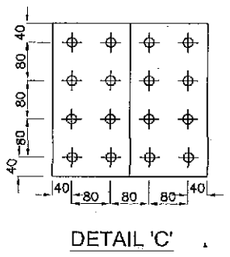




1-PL 188x10x159



DETAIL 'D' I-150x90x12x12 l=180



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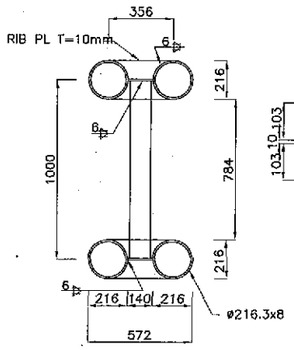
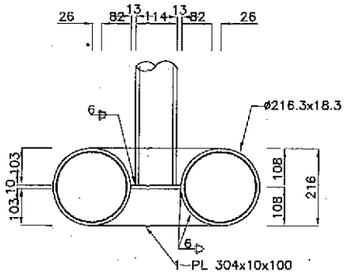


SECTION A-A



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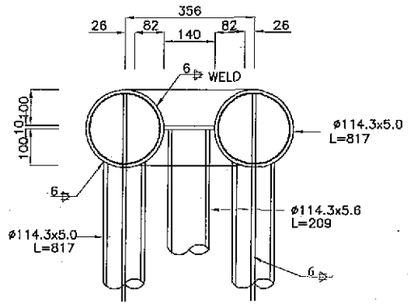

SECTION B-B

NOTES
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LEGENDS

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00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NOK KUNDI TO MASH KHEL

CLIENT :

GOVERNMENT OF PAKISTAN
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CONSULTANT :

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IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

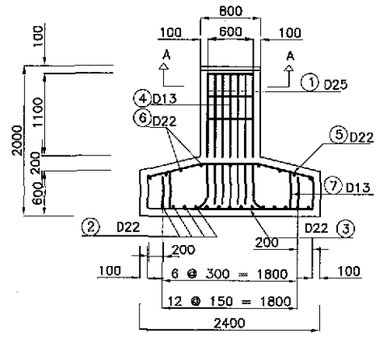
DRAWING TITLE:

GANTRY SIGN TRUSS DETAILS

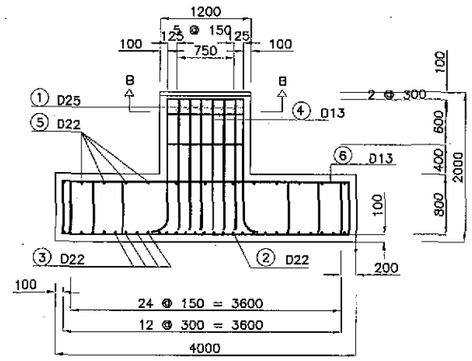
DESIGN BY:	SHEET NO:
AYESHA SHABBIR	03 TO 04
DRAWN BY:	SCALE:
AKHTAR	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

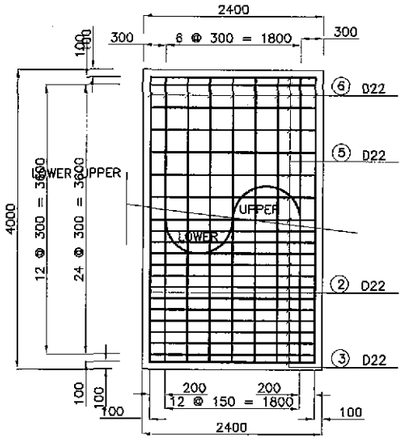
ZI/KA/NK/GRN/13-C



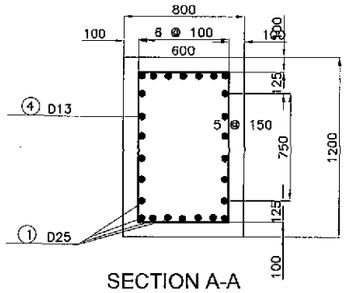
FRONT VIEW



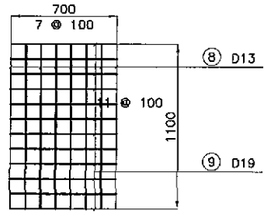
SIDE VIEW



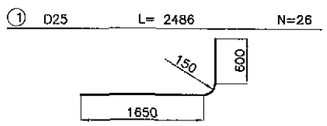
PLAN

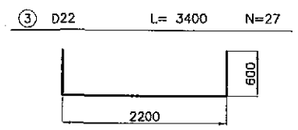


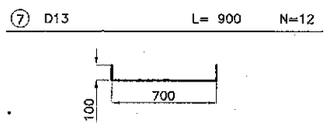
SECTION A-A

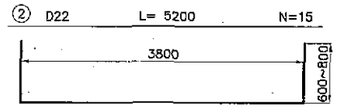


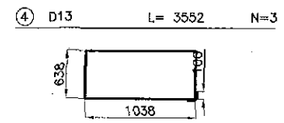
SECTION B-B

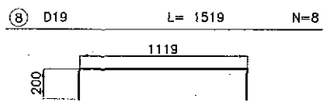


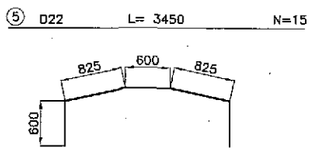


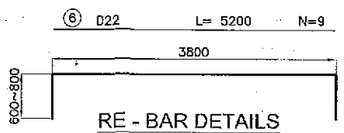




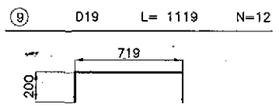








RE - BAR DETAILS



LIST OF MATERIALS (TRUSS,POST)

ITEM	DESCRIPTION	SIZE	UNIT.WT	EACH	WEIGHT (Kg)	REMARKS	RESULT
PIPE	ø216.3 T= 8	18.930	778.023	4	3,112.092		
	ø114.3 T= 5.6	1.209	18.135	24	435.24		
	ø114.3 T= 5.6	817	12.255	4	49.02		
	ø355.6 T= 12	6.950	708.90	2	1,417.80		
	ø355.6 T= 12	7.500	765.0	2	1,530.00		
SUB TOTAL		(SS 41)			6,544.15	ADD 5%	6,871.36
PLATE	140 x 10	19.000	208.810	2	417.620		
	304 x 10	100	2.386	54	128.87		
	1.216 x 12	367	42.039	4	168.16		
	1.216 x 12	344	39.404	2	78.81		
	188 x 10	159	2.347	16	37.54		
	600 x 45	1.000	211.95	2	423.90		
	100 x 12	250	2.355	24	56.52		
	752 x 12	396	28.052	2	56.10		
	696 x 10	403	22.018	8	176.15		
	223 x 12	400	8.403	8	67.22		
	320 x 10	350	8.792	16	140.67		
	752 x 12	396	28.052	2	56.10		
	178 x 10	356	4.974	30	149.23		
SUB TOTAL		(SWS 41)			1,956.89	ADD 10%	2,152.58
ANGLE	L-150x90x12x12	180	3.87	4	15.48		
SUB TOTAL		(SS.41)			15.48	ADD 5%	16.25
BOLT	H.T.B FIOTø20	70		152			
A. BOLT	ø40	1.400	778.023	28	D19	D19	
TOTAL					8,516.52 8.517		9,040.19

RE - BAR LIST

NO	DIA	LENG.	EACH	TOTAL	UNIT.WT (Kg)	TOTAL WT. (Kg)	REMARKS	RESULT (Kg)
1	D25	2.486	26	64.636	3.98	257.25	ADD 3%	
SUB TOTAL						257.25	ADD 3%	264.97
2	D22	5.200	15	78.000	304	237.12		
3	=	3.400	27	91.800		297.07		
5	=	3.450	15	51.750		157.32		
6	=	5.200	9	46.800		142.27		
SUB TOTAL						815.78	ADD 3%	840.25
8	D19	1.519	8	12.152	2.25	27.34		
9	=	1.119	12	13.428		30.21		
SUB TOTAL						57.55	ADD 3%	59.28
4	D13	3.552	3	10.656	0.995	10.60		
7	=	900	12	10.800		10.75		
SUB TOTAL						21.35	ADD 3%	21.99
TOTAL			EACH			1,151.93		1,186.49

NOTES

ALL DIMENSION ARE IN METER UNLESS NOTED OTHERWISE.

LEGENDS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NOK KUNDI TO MASH KHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Flora Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

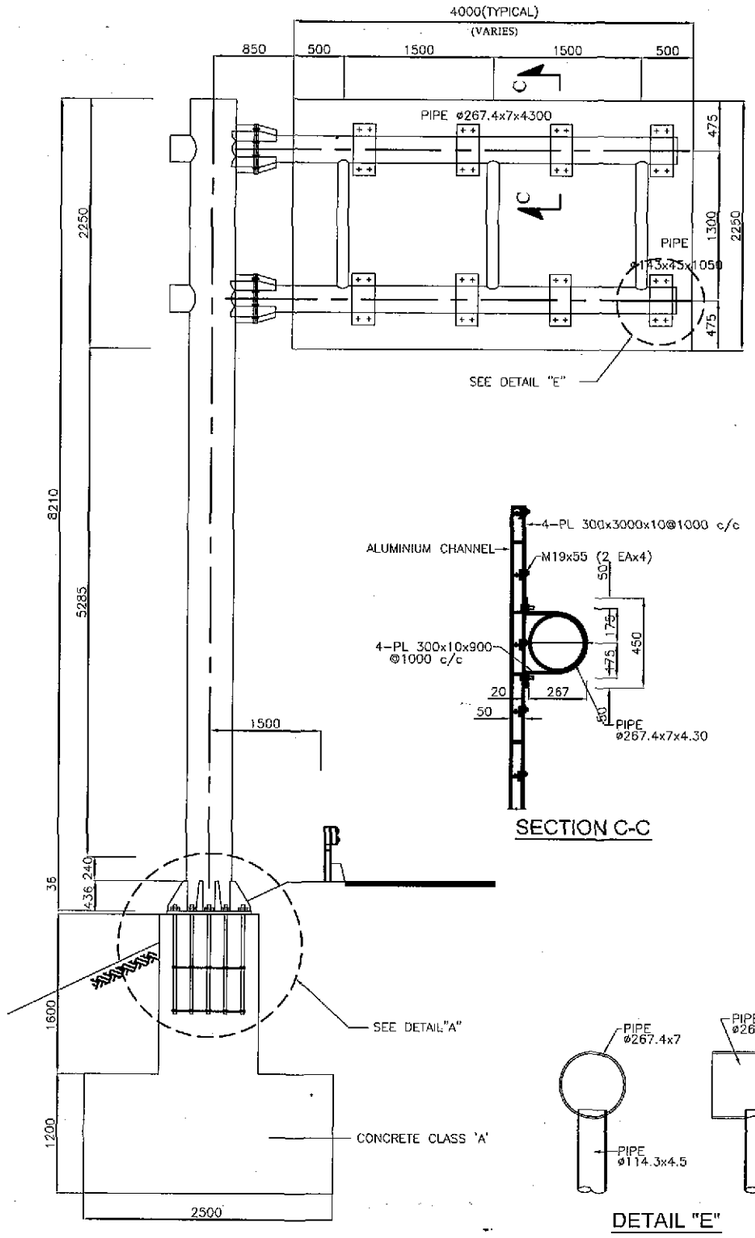
DRAWING TITLE:

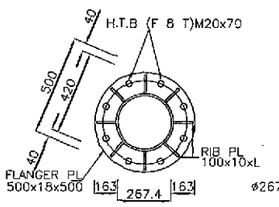
GANTRY SIGN
FOUNDATION DETAILS

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	04 TO 04
DRAWN BY:	SCALE:
AKHTAR	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

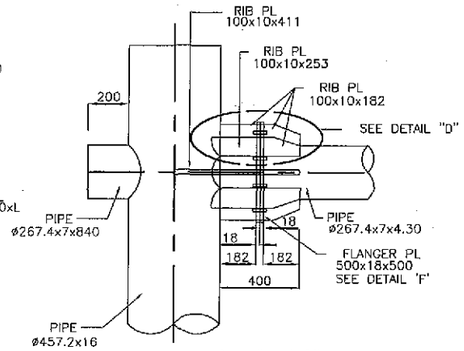
CAD FILE NAME:

ZI/KA/NK/GEN/13-D





DETAIL "F"
(FLANGER PLATE)



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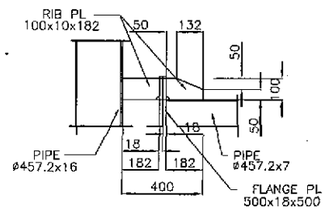
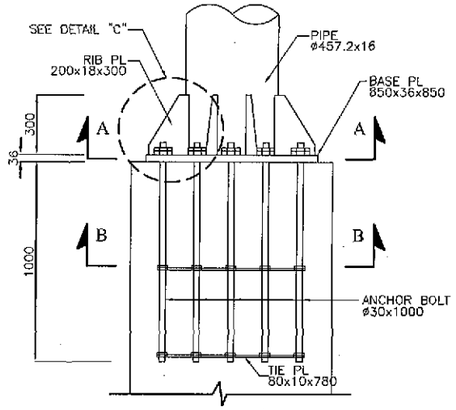


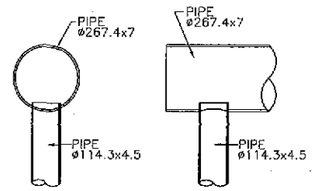
DETAIL "D"
(RIB PLATE)

SECTION C-C

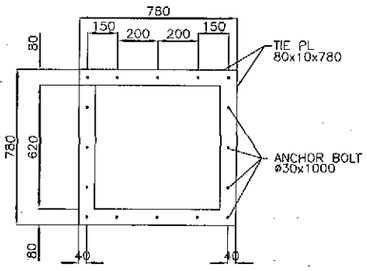


DETAIL"A"

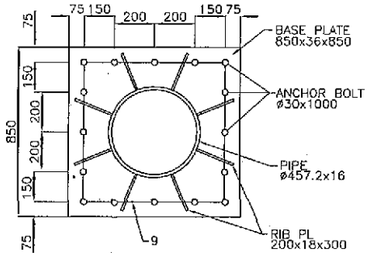
DETAIL "C"
(RIB PLATE)



DETAIL "E"



SECTION B-B
(TIE PLATE)



SECTION A-A
(BASE PLATE)

NOTES

1-ALL DIMENSIONS ARE IN MILLIMETERS.
2-ALL WELDS SHALL BE 8mm. THICK.
3-CONTRACTOR MAY USE ALUMINIUM PLATE (3mm. THICK) FOR SIGN FACE IN PLACE OF ALUMINUM CHANNEL WITH APPROVAL OF ENGINEER.

LEGENDS

REV.	REVISION-ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NOK KUNDI TO MASH KHEL

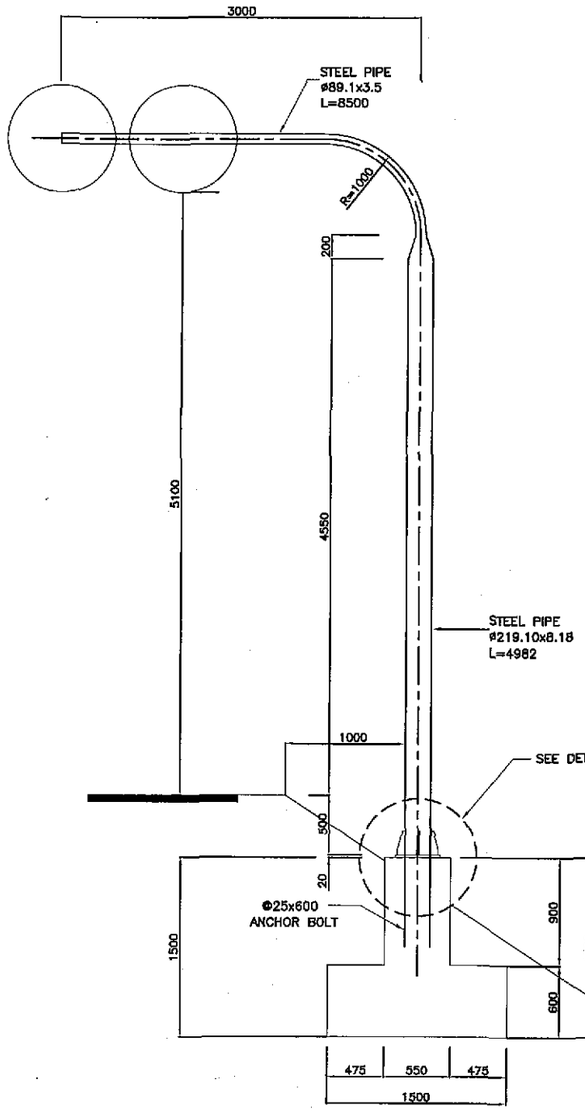
CLIENT :
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL,(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

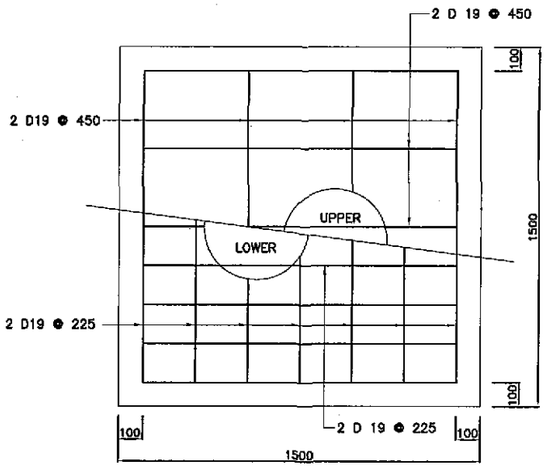
DRAWING TITLE:
OVER HANGER EXIT SIGN STRUCTURE DETAIL

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	01 TO 03
DRAWN BY:	SCALE:
AKHTAR	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

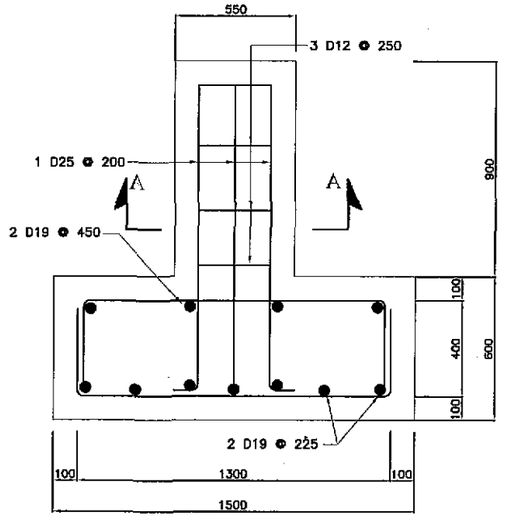
CAD FILE NAME:
ZI/KA/NK/GEN/14-A



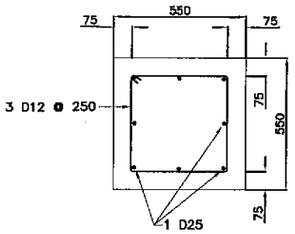
GENERAL VIEW



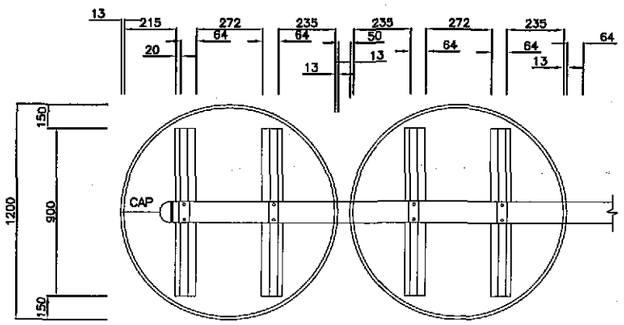
PLAN



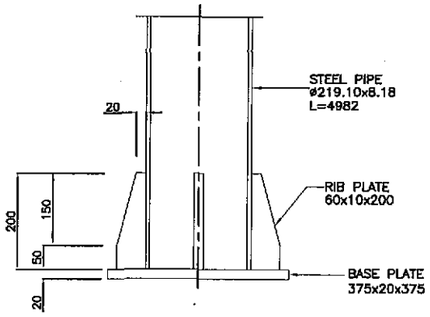
FOUNDATION



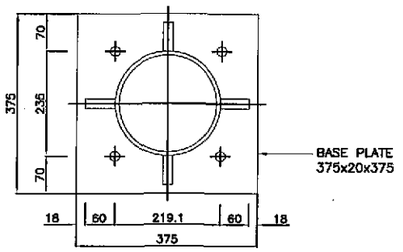
SECTION A-A



REAR VIEW



DETAIL "A"



BASE PLATE

NOTES

ALL DIMENSION ARE IN METER UNLESS NOTED OTHERWISE.

LEGENDS

REV.	REVISION ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NOK KUNDI TO MASH KHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

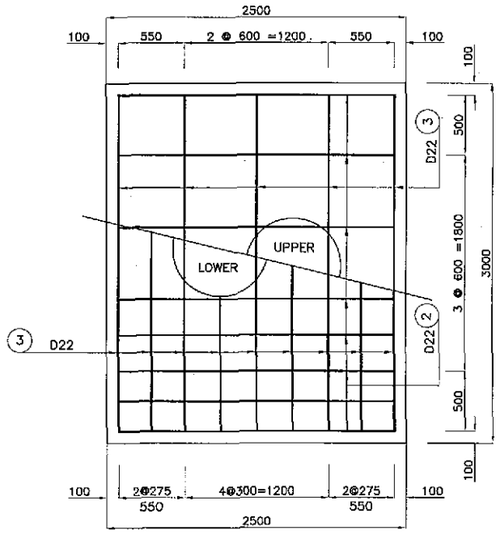
DRAWING TITLE:

OVER HANGER GUIDE SIGN DETAILS

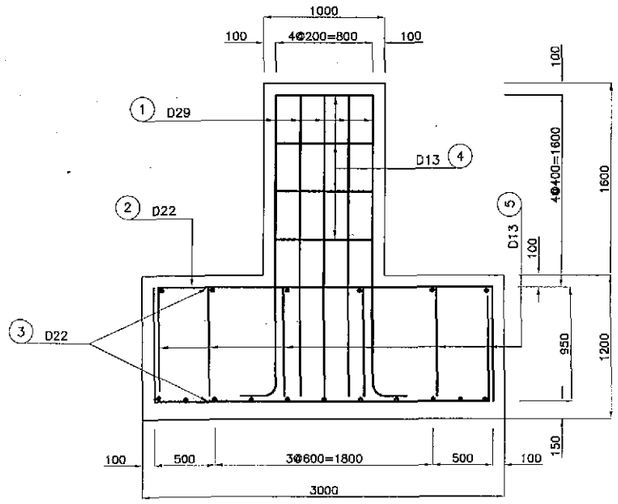
DESIGN BY:	SHEET NO:
AYESHA SHABBIR	02 TO 03
DRAWN BY:	SCALE:
AKHTAR	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

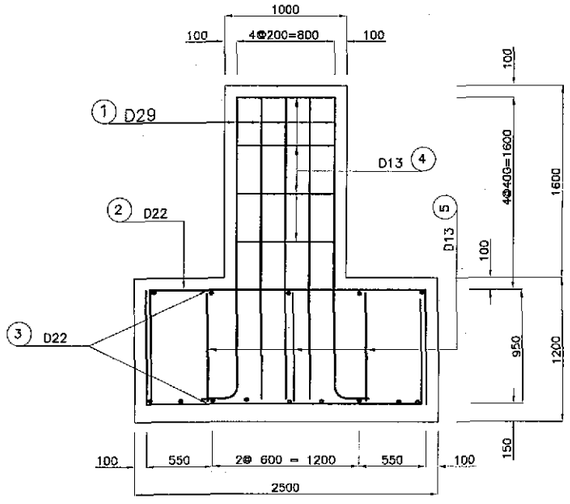
ZI/KA/NK/GEN/14-B



PLAN VIEW



SIDE VIEW



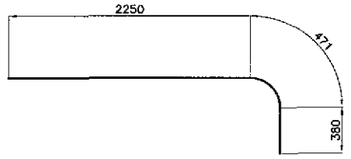
FRONT VIEW

MATERIAL LIST

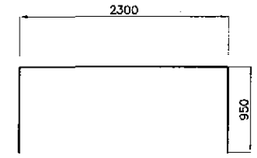
ITEM	SIZE	LENGTH	UNIT WT.	EACH	TOTAL WT	REMARKS
PIPE	ø457.2 x 16	8.210	1,372.860	1	KG. 11,271.18	
"	ø267.4x 10	4.300	193.500	2	387.000	
"	"	840	37.800	2	75.600	
"	ø114.3x 4.5	1.050	204.179	3	KG. 40.260	
"	SUB TOTAL		13.420	4	KG. 11,773.86	
PLATE	850 x 36	850	35.325	1	KG. 204.179	BASE PL
"	500 x 18	500	8.478	2	70.650	FLG PL
"	200 x 18	300		8	67.824	RIB PL
"	SUB TOTAL				KG. 138.474	
"	100 x 10	411	3.226	2	6.452	RIB PL
"	"	253	1.986	4	7.944	
"	"	182	1.429	2	2.858	
"	80 x 10	780	4.898	8	39.184	TIE PL
"	SUB TOTAL				KG. 56.438	
H.T.B	M 20 x 70			8		F & T
ANCHOR BOLT	ø30 x 1000			16		

1- MATERIAL AND RE BAR LIST GIVEN ABOVE ARE FOR GUIDANCE ONLY

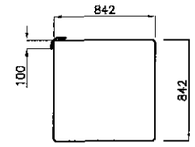
1 D29 L= 3.101 N= 16



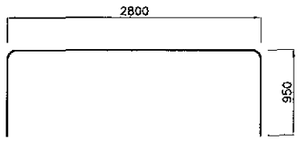
2 D22 L= 3.200 N= 17



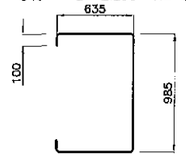
4 D13 L= 3.568 N= 4



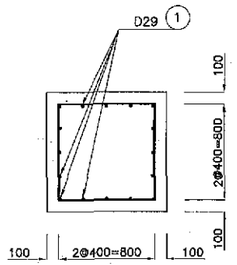
3 D22 L= 4.700 N= 14



5 D13 L= 2.455 N= 4
D13 L= 2.255 N= 4



RE BAR DETAILS



RE BAR LIST

MARK	DIA	LENGTH	EACH	TOTAL LE.	UNIT WT.	TOTAL WT.	REMARKS
1	D29	3.101	16	49.616			ADD 3%
SUB TOTAL				49.416	5.040	250.065	0.257
2	D22	4.200	17	71.400			
3	-	4.700	14	65.800			
SUB TOTAL				13.720	3.040	417.088	0.429
4	D13	3.568	4	14.272			
5	D13	2.355	8	18.840			
SUB TOTAL				33.112	0.995	32.946	0.033
GRAND TOTAL							0.719

NOTES

ALL DIMENSION ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

LEGENDS

REV.	REVISION-ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NOK KUNDI TO MASH KHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

OVER HANGER EXIT SIGN FOUNDATION DETAIL

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	03 TO 03
DRAWN BY: AKHTAR	SCALE: N.T.S
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/GEN/14-C

NAUKANDI TO MASHKHEL

PLAN & PROFILE DRAWING

KM 00+000 TO KM 102+950.726

LIST OF TRAVERSE POINTS (NAUKANDI TO MASHAKHEL)

TRAVERSE NAME	EASTING	NORTHING	ELEVATION
BM1	490992.824	3089525.21	528.307
BM1-1	491038.945	3089520.79	528.201
BM1_2	490987.924	3089540.49	528.344
BM2_2	490775.255	3090942.15	519.339
BM2_1	490850.505	3090980.32	519.449
BM3	490473.229	3093923.36	505.804
BM3_1	490503.822	3093928.85	505.754
BM4	489937.151	3096869.64	494.152
BM4_1	489965.031	3096850.04	494.876
BM4_2	489943.619	3096836.46	494.352
BM5	489484.047	3099847.88	489.994
BM5_1	489494.012	3099814.29	490.135
BM5_2	489466.129	3099817.81	489.922
BM6	489416.801	3102829.14	489.370
BM6_1	489389.466	3102830.71	489.319
BM7	491927.792	3107210.59	488.631
BM7_1	491932.77	3107192.93	488.432
BM8	491039.916	3112169.81	489.139
BM8_1	491032.848	3112186.32	489.11
BM9	489746.424	3117127.43	487.939
BM9_1	489732.935	3117122.68	487.825
BM10	488234.981	3122032.49	486.603
BM10_1	488229.842	3122050.8	486.551
BM11	487842.449	3126996.59	485.154
BM11_1	487849.348	3127008.16	484.966
BM12	486053.461	3131849.73	483.644
BM12_1	486060.795	3131863.46	483.665
BM13	485005.987	3136667.08	482.536
BM13_1	485012.894	3136678.88	482.536
BM14	483300.736	3141473.73	481.423
BM14_1	483315.104	3141479.66	481.288
BM15	480846.167	3145094.91	495.847
BM15_1	480851.556	3145080.01	495.591
BM16	478111.619	3150118.71	529.207
BM16_1	478132.912	3150128.27	529.113
BM17	476103.096	3153909.56	562.651
BM17_1	476120.255	3153894.78	562.549
BM18_1	473787.611	3158875.3	595.006
BM18	473764.465	3158880.16	595.314
BM19	474104.275	3163453.54	603.31
BM19_1	474086.144	3163452.43	603.282
BM20	474814.487	3168639.51	616.169
BM20_1	474815.041	3168650.72	615.978
BM21	475294.308	3173281.62	614.749
BM21_1	475284.845	3173264.71	614.473

TRAVERSE NAME	EASTING	NORTHING	ELEVATION
BM22	475528.7	3178550	614.386
BM22_1	475515.7	3178566	614.378
BM23	476072.6	3183345	627.491
BM23_1	476078.1	3183322	627.331
BM24	476634.5	3188137	653.191
BM24_1	476650.4	3188119	653.102

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph. 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
LIST OF TRAVERSE POINTS

DESIGN BY: AYESHA SHABBIR	SHEET NO:
DRAWN BY: SHAKEEL	SCALE: N.T.S
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M ANWAR	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/TR/00

SETTING OUT DATA - NO KUNDI TO MASH KHAIL

CURVE NO	PC			IP			PT			De	Di	L	T	R	T	E	M
	STATION	NORTHING	EASTING	STATION	NORTHING	EASTING	STATION	NORTHING	EASTING								
BOP	0+000.000	3188300.360	476641.458														
1	11+028.360	3177328.648	475525.098	11+269.820	3177088.429	475500.656	11+511.274	3176847.931	475479.116	0.0052	0.0052	0.413	482.914	40000	241.46	0.729	0.729
2	26+659.944	3161759.659	474127.728	29+342.031	3159088.266	473888.464	31+900.773	3156655.687	475018.129	0.0326	0.0326	30.014	5240.829	10000	2682.087	353.434	341.369
3	35+693.181	3153216.075	476615.449	36+076.012	3152868.858	476776.693	36+458.819	3152518.619	476931.262	0.0052	0.0052	1.0548	765.638	40000	382.831	1.832	1.832
4	38+637.245	3150525.646	477810.807	39+219.728	3149992.75	478045.987	39+800.589	3149494.615	478347.895	0.0349	0.0349	7.2422	1163.345	9000	582.484	18.83	18.79
5	49+079.641	3141559.246	483157.334	49+582.184	3141129.475	483417.808	50+081.364	3140656.464	483587.545	0.0653	0.0653	11.2844	1001.723	5000	502.543	25.192	25.065
6	53+817.050	3137140.308	484849.292	54+408.565	3136583.555	485049.079	54+997.931	3136003.472	485164.809	0.0418	0.0418	8.2727	1180.88	8000	591.515	21.838	21.779
7	58+602.954	3132468.12	485870.134	59+214.651	3131868.246	485989.813	59+823.971	3131293.54	486199.302	0.0418	0.0418	8.4442	1221.016	8000	611.696	23.352	23.284
8	64+213.107	3127169.826	487702.463	65+160.187	3126280.018	488026.812	66+085.089	3125333.23	488003.281	0.0653	0.0653	21.2705	1871.982	5000	947.08	88.906	87.352
9	66+366.627	3125051.78	487996.286	66+668.112	3124750.387	487988.795	66+968.868	3124450.279	488017.573	0.0653	0.0653	6.5404	602.241	5000	301.485	9.081	9.065
10	68+848.635	3122579.095	488197.005	69+352.496	3122077.535	488245.101	69+852.966	3121595.655	488392.299	0.0653	0.0653	11.3032	1004.331	5000	503.861	25.323	25.196
11	74+672.980	3116985.914	489800.428	74+963.387	3116708.177	489885.268	75+253.680	3116426.66	489956.574	0.0252	0.0252	2.4621	580.7	12000	290.407	3.513	3.512
12	79+397.283	3112409.905	490973.984	79+781.631	3112037.324	491068.355	80+165.511	3111658.053	491130.619	0.0349	0.0349	4.5326	768.228	9000	384.347	8.203	8.196
13	84+172.915	3107703.583	491779.812	84+623.608	3107258.843	491852.824	85+035.179	3106875.998	491615.013	0.2839	0.2839	41.1012	862.264	1200	450.693	81.844	76.618
14	86+823.334	3105357.035	490671.484	87+240.202	3105002.923	490451.522	87+655.146	3104617.275	490293.236	0.0653	0.0653	9.3155	831.811	5000	416.868	17.348	17.288
15	89+026.352	3103348.761	489772.584	89+405.656	3102997.863	489628.561	89+776.057	3102618.6	489623.014	0.1711	0.1711	21.2839	749.705	2000	379.304	35.65	35.026
16	91+243.314	3101151.499	489601.559	91+536.848	3100857.997	489597.267	91+830.213	3100565.252	489575.766	0.0326	0.0326	3.2146	586.899	10000	293.534	4.307	4.305
17	91+830.213	3100565.252	489575.766	92+129.207	3100267.061	489553.866	92+426.905	3099969.222	489580.13	0.0917	0.0917	9.1424	596.692	3700	298.994	12.061	12.022
18	92+628.908	3099768	489597.874	92+834.714	3099562.99	489615.952	93+040.287	3099357.187	489617.121	0.0653	0.0653	4.4251	411.379	5000	205.806	4.234	4.23
19	93+647.073	3098750.411	489620.567	94+272.780	3098124.714	489624.12	94+892.015	3097519.189	489781.75	0.0653	0.0653	14.1558	1244.942	5000	625.707	38.999	38.697
20	96+057.796	3096391.007	490075.438	96+349.397	3096108.811	490148.899	96+640.338	3095819.989	490189.058	0.0653	0.0653	6.4032	582.542	5000	291.601	8.496	8.481
21	102+662.756	3089854.957	491018.465	102+781.681	3089737.165	491034.843	102+898.877	3089619.703	491016.25	0.4258	0.4258	16.5439	236.121	800	118.925	8.791	8.696
EOP	102+950.726	3089568.491	491008.143														

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
SETTING OUT DATA
NOK KUNDI TO MASH KHAIL

DESIGN BY: AYESHA SHABBIR	SHEET NO: 01 TO 01
DRAWN BY: SHAKEEL	SCALE: N.T.S
CHECKED BY: ZAFAR ALI	DATE: NOV. 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/SO/01

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
0+000.000	3188300.36	476641.458
0+010.000	3188290.412	476640.445
0+020.000	3188280.463	476639.433
0+030.000	3188270.514	476638.421
0+040.000	3188260.566	476637.409
0+050.000	3188250.617	476636.396
0+060.000	3188240.669	476635.384
0+070.000	3188230.72	476634.372
0+080.000	3188220.771	476633.359
0+090.000	3188210.823	476632.347
0+100.000	3188200.874	476631.335
0+110.000	3188190.925	476630.323
0+120.000	3188180.977	476629.31
0+130.000	3188171.028	476628.298
0+140.000	3188161.08	476627.286
0+150.000	3188151.131	476626.274
0+160.000	3188141.182	476625.261
0+170.000	3188131.234	476624.249
0+180.000	3188121.285	476623.237
0+190.000	3188111.336	476622.225
0+200.000	3188101.388	476621.212
0+210.000	3188091.439	476620.2
0+220.000	3188081.49	476619.188
0+230.000	3188071.542	476618.176
0+240.000	3188061.593	476617.163
0+250.000	3188051.645	476616.151
0+260.000	3188041.696	476615.139
0+270.000	3188031.747	476614.126
0+280.000	3188021.799	476613.114
0+290.000	3188011.85	476612.102
0+300.000	3188001.901	476611.09
0+310.000	3187991.953	476610.077
0+320.000	3187982.004	476609.065
0+330.000	3187972.055	476608.053
0+340.000	3187962.107	476607.041
0+350.000	3187952.158	476606.028
0+360.000	3187942.21	476605.016
0+370.000	3187932.261	476604.004
0+380.000	3187922.312	476602.992
0+390.000	3187912.364	476601.979
0+400.000	3187902.415	476600.967
0+410.000	3187892.466	476599.955
0+420.000	3187882.518	476598.943
0+430.000	3187872.569	476597.93
0+440.000	3187862.62	476596.918
0+450.000	3187852.672	476595.906
0+460.000	3187842.723	476594.893
0+470.000	3187832.775	476593.881
0+480.000	3187822.826	476592.869

Station	Northing	Easting
0+490.000	3187812.877	476591.857
0+500.000	3187802.929	476590.844
0+510.000	3187792.98	476589.832
0+520.000	3187783.031	476588.82
0+530.000	3187773.083	476587.808
0+540.000	3187763.134	476586.795
0+550.000	3187753.186	476585.783
0+560.000	3187743.237	476584.771
0+570.000	3187733.288	476583.759
0+580.000	3187723.34	476582.746
0+590.000	3187713.391	476581.734
0+600.000	3187703.442	476580.722
0+610.000	3187693.494	476579.71
0+620.000	3187683.545	476578.697
0+630.000	3187673.596	476577.685
0+640.000	3187663.648	476576.673
0+650.000	3187653.699	476575.66
0+660.000	3187643.751	476574.648
0+670.000	3187633.802	476573.636
0+680.000	3187623.853	476572.624
0+690.000	3187613.905	476571.611
0+700.000	3187603.956	476570.599
0+710.000	3187594.007	476569.587
0+720.000	3187584.059	476568.575
0+730.000	3187574.11	476567.562
0+740.000	3187564.161	476566.55
0+750.000	3187554.213	476565.538
0+760.000	3187544.264	476564.526
0+770.000	3187534.316	476563.513
0+780.000	3187524.367	476562.501
0+790.000	3187514.418	476561.489
0+800.000	3187504.47	476560.477
0+810.000	3187494.521	476559.464
0+820.000	3187484.572	476558.452
0+830.000	3187474.624	476557.44
0+840.000	3187464.675	476556.428
0+850.000	3187454.726	476555.415
0+860.000	3187444.778	476554.403
0+870.000	3187434.829	476553.391
0+880.000	3187424.881	476552.378
0+890.000	3187414.932	476551.366
0+900.000	3187404.983	476550.354
0+910.000	3187395.035	476549.342
0+920.000	3187385.086	476548.329
0+930.000	3187375.137	476547.317
0+940.000	3187365.189	476546.305
0+950.000	3187355.24	476545.293
0+960.000	3187345.291	476544.28
0+970.000	3187335.343	476543.268

Station	Northing	Easting
0+980.000	3187325.394	476542.256
0+990.000	3187315.446	476541.244
1+000.000	3187305.497	476540.231
1+010.000	3187295.548	476539.219
1+020.000	3187285.6	476538.207
1+030.000	3187275.651	476537.195
1+040.000	3187265.702	476536.182
1+050.000	3187255.754	476535.17
1+060.000	3187245.805	476534.158
1+070.000	3187235.857	476533.145
1+080.000	3187225.908	476532.133
1+090.000	3187215.959	476531.121
1+100.000	3187206.011	476530.109
1+110.000	3187196.062	476529.096
1+120.000	3187186.113	476528.084
1+130.000	3187176.165	476527.072
1+140.000	3187166.216	476526.06
1+150.000	3187156.267	476525.047
1+160.000	3187146.319	476524.035
1+170.000	3187136.37	476523.023
1+180.000	3187126.422	476522.011
1+190.000	3187116.473	476520.998
1+200.000	3187106.524	476519.986
1+210.000	3187096.576	476518.974
1+220.000	3187086.627	476517.962
1+230.000	3187076.678	476516.949
1+240.000	3187066.73	476515.937
1+250.000	3187056.781	476514.925
1+260.000	3187046.832	476513.912
1+270.000	3187036.884	476512.9
1+280.000	3187026.935	476511.888
1+290.000	3187016.987	476510.876
1+300.000	3187007.038	476509.863
1+310.000	3186997.089	476508.851
1+320.000	3186987.141	476507.839
1+330.000	3186977.192	476506.827
1+340.000	3186967.243	476505.814
1+350.000	3186957.295	476504.802
1+360.000	3186947.346	476503.79
1+370.000	3186937.397	476502.778
1+380.000	3186927.449	476501.765
1+390.000	3186917.5	476500.753
1+400.000	3186907.552	476499.741
1+410.000	3186897.603	476498.729
1+420.000	3186887.654	476497.716
1+430.000	3186877.706	476496.704
1+440.000	3186867.757	476495.692
1+450.000	3186857.808	476494.679
1+460.000	3186847.86	476493.667

Station	Northing	Easting
1+470.000	3186837.911	476492.655
1+480.000	3186827.963	476491.643
1+490.000	3186818.014	476490.63
1+500.000	3186808.065	476489.618
1+510.000	3186798.117	476488.606
1+520.000	3186788.168	476487.594
1+530.000	3186778.219	476486.581
1+540.000	3186768.271	476485.569
1+550.000	3186758.322	476484.557
1+560.000	3186748.373	476483.545
1+570.000	3186738.425	476482.532
1+580.000	3186728.476	476481.52
1+590.000	3186718.528	476480.508
1+600.000	3186708.579	476479.496
1+610.000	3186698.63	476478.483
1+620.000	3186688.682	476477.471
1+630.000	3186678.733	476476.459
1+640.000	3186668.784	476475.447
1+650.000	3186658.836	476474.434
1+660.000	3186648.887	476473.422
1+670.000	3186638.938	476472.41
1+680.000	3186628.99	476471.397
1+690.000	3186619.041	476470.385
1+700.000	3186609.093	476469.373
1+710.000	3186599.144	476468.361
1+720.000	3186589.195	476467.348
1+730.000	3186579.247	476466.336
1+740.000	3186569.298	476465.324
1+750.000	3186559.349	476464.312
1+760.000	3186549.401	476463.299
1+770.000	3186539.452	476462.287
1+780.000	3186529.503	476461.275
1+790.000	3186519.555	476460.263
1+800.000	3186509.606	476459.25
1+810.000	3186499.658	476458.238
1+820.000	3186489.709	476457.226
1+830.000	3186479.76	476456.214
1+840.000	3186469.812	476455.201
1+850.000	3186459.863	476454.189
1+860.000	3186449.914	476453.177
1+870.000	3186439.966	476452.164
1+880.000	3186430.017	476451.152
1+890.000	3186420.069	476450.14
1+900.000	3186410.12	476449.128
1+910.000	3186400.171	476448.115
1+920.000	3186390.223	476447.103
1+930.000	3186380.274	476446.091
1+940.000	3186370.325	476445.079
1+950.000	3186360.377	476444.066

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
1-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	01 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/01

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
1+960.000	3186350.428	476443.054
1+970.000	3186340.479	476442.042
1+980.000	3186330.531	476441.03
1+990.000	3186320.582	476440.017
2+000.000	3186310.634	476439.005
2+010.000	3186300.685	476437.993
2+020.000	3186290.736	476436.981
2+030.000	3186280.788	476435.968
2+040.000	3186270.839	476434.956
2+050.000	3186260.89	476433.944
2+060.000	3186250.942	476432.931
2+070.000	3186240.993	476431.919
2+080.000	3186231.044	476430.907
2+090.000	3186221.096	476429.895
2+100.000	3186211.147	476428.882
2+110.000	3186201.199	476427.87
2+120.000	3186191.25	476426.858
2+130.000	3186181.301	476425.846
2+140.000	3186171.353	476424.833
2+150.000	3186161.404	476423.821
2+160.000	3186151.455	476422.809
2+170.000	3186141.507	476421.797
2+180.000	3186131.558	476420.784
2+190.000	3186121.609	476419.772
2+200.000	3186111.661	476418.76
2+210.000	3186101.712	476417.748
2+220.000	3186091.764	476416.735
2+230.000	3186081.815	476415.723
2+240.000	3186071.866	476414.711
2+250.000	3186061.918	476413.698
2+260.000	3186051.969	476412.686
2+270.000	3186042.02	476411.674
2+280.000	3186032.072	476410.662
2+290.000	3186022.123	476409.649
2+300.000	3186012.175	476408.637
2+310.000	3186002.226	476407.625
2+320.000	3185992.277	476406.613
2+330.000	3185982.329	476405.6
2+340.000	3185972.38	476404.588
2+350.000	3185962.431	476403.576
2+360.000	3185952.483	476402.564
2+370.000	3185942.534	476401.551
2+380.000	3185932.585	476400.539
2+390.000	3185922.637	476399.527
2+400.000	3185912.688	476398.515
2+410.000	3185902.74	476397.502
2+420.000	3185892.791	476396.49
2+430.000	3185882.842	476395.478
2+440.000	3185872.894	476394.466

Station	Northing	Easting
2+450.000	3185862.945	476393.453
2+460.000	3185852.996	476392.441
2+470.000	3185843.048	476391.429
2+480.000	3185833.099	476390.416
2+490.000	3185823.15	476389.404
2+500.000	3185813.202	476388.392
2+510.000	3185803.253	476387.38
2+520.000	3185793.305	476386.367
2+530.000	3185783.356	476385.355
2+540.000	3185773.407	476384.343
2+550.000	3185763.459	476383.331
2+560.000	3185753.51	476382.318
2+570.000	3185743.561	476381.306
2+580.000	3185733.613	476380.294
2+590.000	3185723.664	476379.282
2+600.000	3185713.715	476378.269
2+610.000	3185703.767	476377.257
2+620.000	3185693.818	476376.245
2+630.000	3185683.87	476375.233
2+640.000	3185673.921	476374.22
2+650.000	3185663.972	476373.208
2+660.000	3185654.024	476372.196
2+670.000	3185644.075	476371.183
2+680.000	3185634.126	476370.171
2+690.000	3185624.178	476369.159
2+700.000	3185614.229	476368.147
2+710.000	3185604.28	476367.134
2+720.000	3185594.332	476366.122
2+730.000	3185584.383	476365.11
2+740.000	3185574.435	476364.098
2+750.000	3185564.486	476363.085
2+760.000	3185554.537	476362.073
2+770.000	3185544.589	476361.061
2+780.000	3185534.64	476360.049
2+790.000	3185524.691	476359.036
2+800.000	3185514.743	476358.024
2+810.000	3185504.794	476357.012
2+820.000	3185494.846	476356
2+830.000	3185484.897	476354.987
2+840.000	3185474.948	476353.975
2+850.000	3185465	476352.963
2+860.000	3185455.051	476351.95
2+870.000	3185445.102	476350.938
2+880.000	3185435.154	476349.926
2+890.000	3185425.205	476348.914
2+900.000	3185415.256	476347.901
2+910.000	3185405.308	476346.889
2+920.000	3185395.359	476345.877
2+930.000	3185385.411	476344.865

Station	Northing	Easting
2+940.000	3185375.462	476343.852
2+950.000	3185365.513	476342.84
2+960.000	3185355.565	476341.828
2+970.000	3185345.616	476340.816
2+980.000	3185335.667	476339.803
2+990.000	3185325.719	476338.791
3+000.000	3185315.77	476337.779
3+010.000	3185305.821	476336.767
3+020.000	3185295.873	476335.754
3+030.000	3185285.924	476334.742
3+040.000	3185275.976	476333.73
3+050.000	3185266.027	476332.717
3+060.000	3185256.078	476331.705
3+070.000	3185246.13	476330.693
3+080.000	3185236.181	476329.681
3+090.000	3185226.232	476328.668
3+100.000	3185216.284	476327.656
3+110.000	3185206.335	476326.644
3+120.000	3185196.386	476325.632
3+130.000	3185186.438	476324.619
3+140.000	3185176.489	476323.607
3+150.000	3185166.541	476322.595
3+160.000	3185156.592	476321.583
3+170.000	3185146.643	476320.57
3+180.000	3185136.695	476319.558
3+190.000	3185126.746	476318.546
3+200.000	3185116.797	476317.534
3+210.000	3185106.849	476316.521
3+220.000	3185096.9	476315.509
3+230.000	3185086.952	476314.497
3+240.000	3185077.003	476313.485
3+250.000	3185067.054	476312.472
3+260.000	3185057.106	476311.46
3+270.000	3185047.157	476310.448
3+280.000	3185037.208	476309.435
3+290.000	3185027.26	476308.423
3+300.000	3185017.311	476307.411
3+310.000	3185007.362	476306.399
3+320.000	3184997.414	476305.386
3+330.000	3184987.465	476304.374
3+340.000	3184977.517	476303.362
3+350.000	3184967.568	476302.35
3+360.000	3184957.619	476301.337
3+370.000	3184947.671	476300.325
3+380.000	3184937.722	476299.313
3+390.000	3184927.773	476298.301
3+400.000	3184917.825	476297.288
3+410.000	3184907.876	476296.276

Station	Northing	Easting
3+420.000	3184897.927	476295.264
3+430.000	3184887.979	476294.252
3+440.000	3184878.03	476293.239
3+450.000	3184868.082	476292.227
3+460.000	3184858.133	476291.215
3+470.000	3184848.184	476290.202
3+480.000	3184838.236	476289.19
3+490.000	3184828.287	476288.178
3+500.000	3184818.338	476287.166
3+510.000	3184808.39	476286.153
3+520.000	3184798.441	476285.141
3+530.000	3184788.492	476284.129
3+540.000	3184778.544	476283.117
3+550.000	3184768.595	476282.104
3+560.000	3184758.647	476281.092
3+570.000	3184748.698	476280.08
3+580.000	3184738.749	476279.068
3+590.000	3184728.801	476278.055
3+600.000	3184718.852	476277.043
3+610.000	3184708.903	476276.031
3+620.000	3184698.955	476275.019
3+630.000	3184689.006	476274.006
3+640.000	3184679.058	476272.994
3+650.000	3184669.109	476271.982
3+660.000	3184659.16	476270.969
3+670.000	3184649.212	476269.957
3+680.000	3184639.263	476268.945
3+690.000	3184629.314	476267.933
3+700.000	3184619.366	476266.92
3+710.000	3184609.417	476265.908
3+720.000	3184599.468	476264.896
3+730.000	3184589.52	476263.884
3+740.000	3184579.571	476262.871
3+750.000	3184569.623	476261.859
3+760.000	3184559.674	476260.847
3+770.000	3184549.725	476259.835
3+780.000	3184539.777	476258.822
3+790.000	3184529.828	476257.81
3+800.000	3184519.879	476256.798
3+810.000	3184509.931	476255.786
3+820.000	3184499.982	476254.773
3+830.000	3184490.033	476253.761
3+840.000	3184480.085	476252.749
3+850.000	3184470.136	476251.736
3+860.000	3184460.188	476250.724
3+870.000	3184450.239	476249.712
3+880.000	3184440.29	476248.7
3+890.000	3184430.342	476247.687
3+900.000	3184420.393	476246.675
3+910.000	3184410.444	476245.663

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	02 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SCD/02

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
3+920.000	3184400.496	476244.651
3+930.000	3184390.547	476243.638
3+940.000	3184380.598	476242.626
3+950.000	3184370.65	476241.614
3+960.000	3184360.701	476240.602
3+970.000	3184350.753	476239.589
3+980.000	3184340.804	476238.577
3+990.000	3184330.855	476237.565
4+000.000	3184320.907	476236.553
4+010.000	3184310.958	476235.54
4+020.000	3184301.009	476234.528
4+030.000	3184291.061	476233.516
4+040.000	3184281.112	476232.503
4+050.000	3184271.163	476231.491
4+060.000	3184261.215	476230.479
4+070.000	3184251.266	476229.467
4+080.000	3184241.318	476228.454
4+090.000	3184231.369	476227.442
4+100.000	3184221.42	476226.43
4+110.000	3184211.472	476225.418
4+120.000	3184201.523	476224.405
4+130.000	3184191.574	476223.393
4+140.000	3184181.626	476222.381
4+150.000	3184171.677	476221.369
4+160.000	3184161.729	476220.356
4+170.000	3184151.78	476219.344
4+180.000	3184141.831	476218.332
4+190.000	3184131.883	476217.32
4+200.000	3184121.934	476216.307
4+210.000	3184111.985	476215.295
4+220.000	3184102.037	476214.283
4+230.000	3184092.088	476213.271
4+240.000	3184082.139	476212.258
4+250.000	3184072.191	476211.246
4+260.000	3184062.242	476210.234
4+270.000	3184052.294	476209.221
4+280.000	3184042.345	476208.209
4+290.000	3184032.396	476207.197
4+300.000	3184022.448	476206.185
4+310.000	3184012.499	476205.172
4+320.000	3184002.55	476204.16
4+330.000	3183992.602	476203.148
4+340.000	3183982.653	476202.136
4+350.000	3183972.704	476201.123
4+360.000	3183962.756	476200.111
4+370.000	3183952.807	476199.099
4+380.000	3183942.859	476198.087
4+390.000	3183932.91	476197.074
4+400.000	3183922.961	476196.062

Station	Northing	Easting
4+410.000	3183913.013	476195.05
4+420.000	3183903.064	476194.038
4+430.000	3183893.115	476193.025
4+440.000	3183883.167	476192.013
4+450.000	3183873.218	476191.001
4+460.000	3183863.269	476189.988
4+470.000	3183853.321	476188.976
4+480.000	3183843.372	476187.964
4+490.000	3183833.424	476186.952
4+500.000	3183823.475	476185.939
4+510.000	3183813.526	476184.927
4+520.000	3183803.578	476183.915
4+530.000	3183793.629	476182.903
4+540.000	3183783.68	476181.89
4+550.000	3183773.732	476180.878
4+560.000	3183763.783	476179.866
4+570.000	3183753.835	476178.854
4+580.000	3183743.886	476177.841
4+590.000	3183733.937	476176.829
4+600.000	3183723.989	476175.817
4+610.000	3183714.04	476174.805
4+620.000	3183704.091	476173.792
4+630.000	3183694.143	476172.78
4+640.000	3183684.194	476171.768
4+650.000	3183674.245	476170.755
4+660.000	3183664.297	476169.743
4+670.000	3183654.348	476168.731
4+680.000	3183644.4	476167.719
4+690.000	3183634.451	476166.706
4+700.000	3183624.502	476165.694
4+710.000	3183614.554	476164.682
4+720.000	3183604.605	476163.67
4+730.000	3183594.656	476162.657
4+740.000	3183584.708	476161.645
4+750.000	3183574.759	476160.633
4+760.000	3183564.81	476159.621
4+770.000	3183554.862	476158.608
4+780.000	3183544.913	476157.596
4+790.000	3183534.965	476156.584
4+800.000	3183525.016	476155.572
4+810.000	3183515.067	476154.559
4+820.000	3183505.119	476153.547
4+830.000	3183495.17	476152.535
4+840.000	3183485.221	476151.522
4+850.000	3183475.273	476150.51
4+860.000	3183465.324	476149.498
4+870.000	3183455.375	476148.486
4+880.000	3183445.427	476147.473
4+890.000	3183435.478	476146.461

Station	Northing	Easting
4+900.000	3183425.53	476145.449
4+910.000	3183415.581	476144.437
4+920.000	3183405.632	476143.424
4+930.000	3183395.684	476142.412
4+940.000	3183385.735	476141.4
4+950.000	3183375.786	476140.388
4+960.000	3183365.838	476139.375
4+970.000	3183355.889	476138.363
4+980.000	3183345.941	476137.351
4+990.000	3183335.992	476136.339
5+000.000	3183326.043	476135.326
5+010.000	3183316.095	476134.314
5+020.000	3183306.146	476133.302
5+030.000	3183296.197	476132.29
5+040.000	3183286.249	476131.277
5+050.000	3183276.3	476130.265
5+060.000	3183266.351	476129.253
5+070.000	3183256.403	476128.24
5+080.000	3183246.454	476127.228
5+090.000	3183236.506	476126.216
5+100.000	3183226.557	476125.204
5+110.000	3183216.608	476124.191
5+120.000	3183206.66	476123.179
5+130.000	3183196.711	476122.167
5+140.000	3183186.762	476121.155
5+150.000	3183176.814	476120.142
5+160.000	3183166.865	476119.13
5+170.000	3183156.916	476118.118
5+180.000	3183146.968	476117.106
5+190.000	3183137.019	476116.093
5+200.000	3183127.071	476115.081
5+210.000	3183117.122	476114.069
5+220.000	3183107.173	476113.057
5+230.000	3183097.225	476112.044
5+240.000	3183087.276	476111.032
5+250.000	3183077.327	476110.02
5+260.000	3183067.379	476109.007
5+270.000	3183057.43	476107.995
5+280.000	3183047.481	476106.983
5+290.000	3183037.533	476105.971
5+300.000	3183027.584	476104.958
5+310.000	3183017.636	476103.946
5+320.000	3183007.687	476102.934
5+330.000	3182997.738	476101.922
5+340.000	3182987.79	476100.909
5+350.000	3182977.841	476099.897
5+360.000	3182967.892	476098.885
5+370.000	3182957.944	476097.873
5+380.000	3182947.995	476096.86

Station	Northing	Easting
5+390.000	3182938.046	476095.848
5+400.000	3182928.098	476094.836
5+410.000	3182918.149	476093.824
5+420.000	3182908.201	476092.811
5+430.000	3182898.252	476091.799
5+440.000	3182888.303	476090.787
5+450.000	3182878.355	476089.774
5+460.000	3182868.406	476088.762
5+470.000	3182858.457	476087.75
5+480.000	3182848.509	476086.738
5+490.000	3182838.56	476085.725
5+500.000	3182828.612	476084.713
5+510.000	3182818.663	476083.701
5+520.000	3182808.714	476082.689
5+530.000	3182798.766	476081.676
5+540.000	3182788.817	476080.664
5+550.000	3182778.868	476079.652
5+560.000	3182768.92	476078.64
5+570.000	3182758.971	476077.627
5+580.000	3182749.022	476076.615
5+590.000	3182739.074	476075.603
5+600.000	3182729.125	476074.591
5+610.000	3182719.177	476073.578
5+620.000	3182709.228	476072.566
5+630.000	3182699.279	476071.554
5+640.000	3182689.331	476070.541
5+650.000	3182679.382	476069.529
5+660.000	3182669.433	476068.517
5+670.000	3182659.485	476067.505
5+680.000	3182649.536	476066.492
5+690.000	3182639.587	476065.48
5+700.000	3182629.639	476064.468
5+710.000	3182619.69	476063.456
5+720.000	3182609.742	476062.443
5+730.000	3182599.793	476061.431
5+740.000	3182589.844	476060.419
5+750.000	3182579.896	476059.407
5+760.000	3182569.947	476058.394
5+770.000	3182559.998	476057.382
5+780.000	3182550.05	476056.37
5+790.000	3182540.101	476055.358
5+800.000	3182530.152	476054.345
5+810.000	3182520.204	476053.333
5+820.000	3182510.255	476052.321
5+830.000	3182500.307	476051.309
5+840.000	3182490.358	476050.296
5+850.000	3182480.409	476049.284
5+860.000	3182470.461	476048.272
5+870.000	3182460.512	476047.259

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAURANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Tree Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO.
AYESHA SHABBIR	03 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SCD/03

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
5+880.000	3182450.563	476046.247
5+890.000	3182440.615	476045.235
5+900.000	3182430.666	476044.223
5+910.000	3182420.718	476043.21
5+920.000	3182410.769	476042.198
5+930.000	3182400.82	476041.186
5+940.000	3182390.872	476040.174
5+950.000	3182380.923	476039.161
5+960.000	3182370.974	476038.149
5+970.000	3182361.026	476037.137
5+980.000	3182351.077	476036.125
5+990.000	3182341.128	476035.112
6+000.000	3182331.18	476034.1
6+010.000	3182321.231	476033.088
6+020.000	3182311.283	476032.076
6+030.000	3182301.334	476031.063
6+040.000	3182291.385	476030.051
6+050.000	3182281.437	476029.039
6+060.000	3182271.488	476028.026
6+070.000	3182261.539	476027.014
6+080.000	3182251.591	476026.002
6+090.000	3182241.642	476024.99
6+100.000	3182231.693	476023.977
6+110.000	3182221.745	476022.965
6+120.000	3182211.796	476021.953
6+130.000	3182201.848	476020.941
6+140.000	3182191.899	476019.928
6+150.000	3182181.95	476018.916
6+160.000	3182172.002	476017.904
6+170.000	3182162.053	476016.892
6+180.000	3182152.104	476015.879
6+190.000	3182142.156	476014.867
6+200.000	3182132.207	476013.855
6+210.000	3182122.258	476012.843
6+220.000	3182112.31	476011.83
6+230.000	3182102.361	476010.818
6+240.000	3182092.413	476009.806
6+250.000	3182082.464	476008.793
6+260.000	3182072.515	476007.781
6+270.000	3182062.567	476006.769
6+280.000	3182052.618	476005.757
6+290.000	3182042.669	476004.744
6+300.000	3182032.721	476003.732
6+310.000	3182022.772	476002.72
6+320.000	3182012.824	476001.708
6+330.000	3182002.875	476000.695
6+340.000	3181992.926	475999.683
6+350.000	3181982.978	475998.671
6+360.000	3181973.029	475997.659

Station	Northing	Easting
6+370.000	3181963.08	475996.646
6+380.000	3181953.132	475995.634
6+390.000	3181943.183	475994.622
6+400.000	3181933.234	475993.61
6+410.000	3181923.286	475992.597
6+420.000	3181913.337	475991.585
6+430.000	3181903.389	475990.573
6+440.000	3181893.44	475989.56
6+450.000	3181883.491	475988.548
6+460.000	3181873.543	475987.536
6+470.000	3181863.594	475986.524
6+480.000	3181853.645	475985.511
6+490.000	3181843.697	475984.499
6+500.000	3181833.748	475983.487
6+510.000	3181823.799	475982.475
6+520.000	3181813.851	475981.462
6+530.000	3181803.902	475980.45
6+540.000	3181793.954	475979.438
6+550.000	3181784.005	475978.426
6+560.000	3181774.056	475977.413
6+570.000	3181764.108	475976.401
6+580.000	3181754.159	475975.389
6+590.000	3181744.21	475974.377
6+600.000	3181734.262	475973.364
6+610.000	3181724.313	475972.352
6+620.000	3181714.364	475971.34
6+630.000	3181704.416	475970.328
6+640.000	3181694.467	475969.315
6+650.000	3181684.519	475968.303
6+660.000	3181674.57	475967.291
6+670.000	3181664.621	475966.278
6+680.000	3181654.673	475965.266
6+690.000	3181644.724	475964.254
6+700.000	3181634.775	475963.242
6+710.000	3181624.827	475962.229
6+720.000	3181614.878	475961.217
6+730.000	3181604.93	475960.205
6+740.000	3181594.981	475959.193
6+750.000	3181585.032	475958.18
6+760.000	3181575.084	475957.168
6+770.000	3181565.135	475956.156
6+780.000	3181555.186	475955.144
6+790.000	3181545.238	475954.131
6+800.000	3181535.289	475953.119
6+810.000	3181525.34	475952.107
6+820.000	3181515.392	475951.095
6+830.000	3181505.443	475950.082
6+840.000	3181495.495	475949.07
6+850.000	3181485.546	475948.058

Station	Northing	Easting
6+860.000	3181475.597	475947.045
6+870.000	3181465.649	475946.033
6+880.000	3181455.7	475945.021
6+890.000	3181445.751	475944.009
6+900.000	3181435.803	475942.996
6+910.000	3181425.854	475941.984
6+920.000	3181415.905	475940.972
6+930.000	3181405.957	475939.96
6+940.000	3181396.008	475938.947
6+950.000	3181386.06	475937.935
6+960.000	3181376.111	475936.923
6+970.000	3181366.162	475935.911
6+980.000	3181356.214	475934.898
6+990.000	3181346.265	475933.886
7+000.000	3181336.316	475932.874
7+010.000	3181326.368	475931.862
7+020.000	3181316.419	475930.849
7+030.000	3181306.47	475929.837
7+040.000	3181296.522	475928.825
7+050.000	3181286.573	475927.812
7+060.000	3181276.625	475926.8
7+070.000	3181266.676	475925.788
7+080.000	3181256.727	475924.776
7+090.000	3181246.779	475923.763
7+100.000	3181236.83	475922.751
7+110.000	3181226.881	475921.739
7+120.000	3181216.933	475920.727
7+130.000	3181206.984	475919.714
7+140.000	3181197.035	475918.702
7+150.000	3181187.087	475917.69
7+160.000	3181177.138	475916.678
7+170.000	3181167.19	475915.665
7+180.000	3181157.241	475914.653
7+190.000	3181147.292	475913.641
7+200.000	3181137.344	475912.629
7+210.000	3181127.395	475911.616
7+220.000	3181117.446	475910.604
7+230.000	3181107.498	475909.592
7+240.000	3181097.549	475908.579
7+250.000	3181087.601	475907.567
7+260.000	3181077.652	475906.555
7+270.000	3181067.703	475905.543
7+280.000	3181057.755	475904.53
7+290.000	3181047.806	475903.518
7+300.000	3181037.857	475902.506
7+310.000	3181027.909	475901.494
7+320.000	3181017.96	475900.481
7+330.000	3181008.011	475899.469
7+340.000	3180998.063	475898.457

Station	Northing	Easting
7+350.000	3180988.114	475897.445
7+360.000	3180978.166	475896.432
7+370.000	3180968.217	475895.42
7+380.000	3180958.268	475894.408
7+390.000	3180948.32	475893.396
7+400.000	3180938.371	475892.383
7+410.000	3180928.422	475891.371
7+420.000	3180918.474	475890.359
7+430.000	3180908.525	475889.347
7+440.000	3180898.576	475888.334
7+450.000	3180888.628	475887.322
7+460.000	3180878.679	475886.31
7+470.000	3180868.731	475885.297
7+480.000	3180858.782	475884.285
7+490.000	3180848.833	475883.273
7+500.000	3180838.885	475882.261
7+510.000	3180828.936	475881.248
7+520.000	3180818.987	475880.236
7+530.000	3180809.039	475879.224
7+540.000	3180799.09	475878.212
7+550.000	3180789.141	475877.199
7+560.000	3180779.193	475876.187
7+570.000	3180769.244	475875.175
7+580.000	3180759.296	475874.163
7+590.000	3180749.347	475873.15
7+600.000	3180739.398	475872.138
7+610.000	3180729.45	475871.126
7+620.000	3180719.501	475870.114
7+630.000	3180709.552	475869.101
7+640.000	3180699.604	475868.089
7+650.000	3180689.655	475867.077
7+660.000	3180679.707	475866.064
7+670.000	3180669.758	475865.052
7+680.000	3180659.809	475864.04
7+690.000	3180649.861	475863.028
7+700.000	3180639.912	475862.015
7+710.000	3180629.963	475861.003
7+720.000	3180620.015	475859.991
7+730.000	3180610.066	475858.979
7+740.000	3180600.117	475857.966
7+750.000	3180590.169	475856.954
7+760.000	3180580.22	475855.942
7+770.000	3180570.272	475854.93
7+780.000	3180560.323	475853.917
7+790.000	3180550.374	475852.905
7+800.000	3180540.426	475851.893
7+810.000	3180530.477	475850.881
7+820.000	3180520.528	475849.868
7+830.000	3180510.58	475848.856

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS

DRAWING TITLE:

STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	04 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SCD/04

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
7+840.000	3180500.631	475847.844
7+850.000	3180490.682	475846.831
7+860.000	3180480.734	475845.819
7+870.000	3180470.785	475844.807
7+880.000	3180460.837	475843.795
7+890.000	3180450.888	475842.782
7+900.000	3180440.939	475841.77
7+910.000	3180430.991	475840.758
7+920.000	3180421.042	475839.746
7+930.000	3180411.093	475838.733
7+940.000	3180401.145	475837.721
7+950.000	3180391.196	475836.709
7+960.000	3180381.247	475835.697
7+970.000	3180371.299	475834.684
7+980.000	3180361.35	475833.672
7+990.000	3180351.402	475832.66
8+000.000	3180341.453	475831.648
8+010.000	3180331.504	475830.635
8+020.000	3180321.556	475829.623
8+030.000	3180311.607	475828.611
8+040.000	3180301.658	475827.598
8+050.000	3180291.71	475826.586
8+060.000	3180281.761	475825.574
8+070.000	3180271.813	475824.562
8+080.000	3180261.864	475823.549
8+090.000	3180251.915	475822.537
8+100.000	3180241.967	475821.525
8+110.000	3180232.018	475820.513
8+120.000	3180222.069	475819.5
8+130.000	3180212.121	475818.488
8+140.000	3180202.172	475817.476
8+150.000	3180192.223	475816.464
8+160.000	3180182.275	475815.451
8+170.000	3180172.326	475814.439
8+180.000	3180162.378	475813.427
8+190.000	3180152.429	475812.415
8+200.000	3180142.48	475811.402
8+210.000	3180132.532	475810.39
8+220.000	3180122.583	475809.378
8+230.000	3180112.634	475808.366
8+240.000	3180102.686	475807.353
8+250.000	3180092.737	475806.341
8+260.000	3180082.788	475805.329
8+270.000	3180072.84	475804.316
8+280.000	3180062.891	475803.304
8+290.000	3180052.943	475802.292
8+300.000	3180042.994	475801.28
8+310.000	3180033.045	475800.267
8+320.000	3180023.097	475799.255

Station	Northing	Easting
8+330.000	3180013.148	475798.243
8+340.000	3180003.199	475797.231
8+350.000	3179993.251	475796.218
8+360.000	3179983.302	475795.206
8+370.000	3179973.353	475794.194
8+380.000	3179963.405	475793.182
8+390.000	3179953.456	475792.169
8+400.000	3179943.508	475791.157
8+410.000	3179933.559	475790.145
8+420.000	3179923.61	475789.133
8+430.000	3179913.662	475788.12
8+440.000	3179903.713	475787.108
8+450.000	3179893.764	475786.096
8+460.000	3179883.816	475785.083
8+470.000	3179873.867	475784.071
8+480.000	3179863.918	475783.059
8+490.000	3179853.97	475782.047
8+500.000	3179844.021	475781.034
8+510.000	3179834.073	475780.022
8+520.000	3179824.124	475779.01
8+530.000	3179814.175	475777.998
8+540.000	3179804.227	475776.985
8+550.000	3179794.278	475775.973
8+560.000	3179784.329	475774.961
8+570.000	3179774.381	475773.949
8+580.000	3179764.432	475772.936
8+590.000	3179754.484	475771.924
8+600.000	3179744.535	475770.912
8+610.000	3179734.586	475769.9
8+620.000	3179724.638	475768.887
8+630.000	3179714.689	475767.875
8+640.000	3179704.74	475766.863
8+650.000	3179694.792	475765.85
8+660.000	3179684.843	475764.838
8+670.000	3179674.894	475763.826
8+680.000	3179664.946	475762.814
8+690.000	3179654.997	475761.801
8+700.000	3179645.049	475760.789
8+710.000	3179635.1	475759.777
8+720.000	3179625.151	475758.765
8+730.000	3179615.203	475757.752
8+740.000	3179605.254	475756.74
8+750.000	3179595.305	475755.728
8+760.000	3179585.357	475754.716
8+770.000	3179575.408	475753.703
8+780.000	3179565.459	475752.691
8+790.000	3179555.511	475751.679
8+800.000	3179545.562	475750.667
8+810.000	3179535.614	475749.654

Station	Northing	Easting
8+820.000	3179525.665	475748.642
8+830.000	3179515.716	475747.63
8+840.000	3179505.768	475746.617
8+850.000	3179495.819	475745.605
8+860.000	3179485.87	475744.593
8+870.000	3179475.922	475743.581
8+880.000	3179465.973	475742.568
8+890.000	3179456.024	475741.556
8+900.000	3179446.076	475740.544
8+910.000	3179436.127	475739.532
8+920.000	3179426.179	475738.519
8+930.000	3179416.23	475737.507
8+940.000	3179406.281	475736.495
8+950.000	3179396.333	475735.483
8+960.000	3179386.384	475734.47
8+970.000	3179376.435	475733.458
8+980.000	3179366.487	475732.446
8+990.000	3179356.538	475731.434
9+000.000	3179346.59	475730.421
9+010.000	3179336.641	475729.409
9+020.000	3179326.692	475728.397
9+030.000	3179316.744	475727.385
9+040.000	3179306.795	475726.372
9+050.000	3179296.846	475725.36
9+060.000	3179286.898	475724.348
9+070.000	3179276.949	475723.335
9+080.000	3179267	475722.323
9+090.000	3179257.052	475721.311
9+100.000	3179247.103	475720.299
9+110.000	3179237.155	475719.286
9+120.000	3179227.206	475718.274
9+130.000	3179217.257	475717.262
9+140.000	3179207.309	475716.25
9+150.000	3179197.36	475715.237
9+160.000	3179187.411	475714.225
9+170.000	3179177.463	475713.213
9+180.000	3179167.514	475712.201
9+190.000	3179157.565	475711.188
9+200.000	3179147.617	475710.176
9+210.000	3179137.668	475709.164
9+220.000	3179127.72	475708.152
9+230.000	3179117.771	475707.139
9+240.000	3179107.822	475706.127
9+250.000	3179097.874	475705.115
9+260.000	3179087.925	475704.102
9+270.000	3179077.976	475703.09
9+280.000	3179068.028	475702.078
9+290.000	3179058.079	475701.066
9+300.000	3179048.13	475700.053

Station	Northing	Easting
9+310.000	3179038.182	475699.041
9+320.000	3179028.233	475698.029
9+330.000	3179018.285	475697.017
9+340.000	3179008.336	475696.004
9+350.000	3178998.387	475694.992
9+360.000	3178988.439	475693.98
9+370.000	3178978.49	475692.968
9+380.000	3178968.541	475691.955
9+390.000	3178958.593	475690.943
9+400.000	3178948.644	475689.931
9+410.000	3178938.696	475688.919
9+420.000	3178928.747	475687.906
9+430.000	3178918.798	475686.894
9+440.000	3178908.85	475685.882
9+450.000	3178898.901	475684.869
9+460.000	3178888.952	475683.857
9+470.000	3178879.004	475682.845
9+480.000	3178869.055	475681.833
9+490.000	3178859.106	475680.82
9+500.000	3178849.158	475679.808
9+510.000	3178839.209	475678.796
9+520.000	3178829.261	475677.784
9+530.000	3178819.312	475676.771
9+540.000	3178809.363	475675.759
9+550.000	3178799.415	475674.747
9+560.000	3178789.466	475673.735
9+570.000	3178779.517	475672.722
9+580.000	3178769.569	475671.71
9+590.000	3178759.62	475670.698
9+600.000	3178749.671	475669.686
9+610.000	3178739.723	475668.673
9+620.000	3178729.774	475667.661
9+630.000	3178719.826	475666.649
9+640.000	3178709.877	475665.636
9+650.000	3178699.928	475664.624
9+660.000	3178689.98	475663.612
9+670.000	3178680.031	475662.6
9+680.000	3178670.082	475661.587
9+690.000	3178660.134	475660.575
9+700.000	3178650.185	475659.563
9+710.000	3178640.236	475658.551
9+720.000	3178630.288	475657.538
9+730.000	3178620.339	475656.526
9+740.000	3178610.391	475655.514
9+750.000	3178600.442	475654.502
9+760.000	3178590.493	475653.489
9+770.000	3178580.545	475652.477
9+780.000	3178570.596	475651.465
9+790.000	3178560.647	475650.453

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
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Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	05 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KANK/SCD/05

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
9+800.000	3178550.699	475649.44
9+810.000	3178540.75	475648.428
9+820.000	3178530.802	475647.416
9+830.000	3178520.853	475646.404
9+840.000	3178510.904	475645.391
9+850.000	3178500.956	475644.379
9+860.000	3178491.007	475643.367
9+870.000	3178481.058	475642.354
9+880.000	3178471.11	475641.342
9+890.000	3178461.161	475640.33
9+900.000	3178451.212	475639.318
9+910.000	3178441.264	475638.305
9+920.000	3178431.315	475637.293
9+930.000	3178421.367	475636.281
9+940.000	3178411.418	475635.269
9+950.000	3178401.469	475634.256
9+960.000	3178391.521	475633.244
9+970.000	3178381.572	475632.232
9+980.000	3178371.623	475631.22
9+990.000	3178361.675	475630.207
10+000.000	3178351.726	475629.195
10+010.000	3178341.777	475628.183
10+020.000	3178331.829	475627.171
10+030.000	3178321.88	475626.158
10+040.000	3178311.932	475625.146
10+050.000	3178301.983	475624.134
10+060.000	3178292.034	475623.121
10+070.000	3178282.086	475622.109
10+080.000	3178272.137	475621.097
10+090.000	3178262.188	475620.085
10+100.000	3178252.24	475619.072
10+110.000	3178242.291	475618.06
10+120.000	3178232.342	475617.048
10+130.000	3178222.394	475616.036
10+140.000	3178212.445	475615.023
10+150.000	3178202.497	475614.011
10+160.000	3178192.548	475612.999
10+170.000	3178182.599	475611.987
10+180.000	3178172.651	475610.974
10+190.000	3178162.702	475609.962
10+200.000	3178152.753	475608.95
10+210.000	3178142.805	475607.938
10+220.000	3178132.856	475606.925
10+230.000	3178122.907	475605.913
10+240.000	3178112.959	475604.901
10+250.000	3178103.01	475603.888
10+260.000	3178093.062	475602.876
10+270.000	3178083.113	475601.864
10+280.000	3178073.164	475600.852

Station	Northing	Easting
10+290.000	3178063.216	475599.839
10+300.000	3178053.267	475598.827
10+310.000	3178043.318	475597.815
10+320.000	3178033.37	475596.803
10+330.000	3178023.421	475595.79
10+340.000	3178013.473	475594.778
10+350.000	3178003.524	475593.766
10+360.000	3177993.575	475592.754
10+370.000	3177983.627	475591.741
10+380.000	3177973.678	475590.729
10+390.000	3177963.729	475589.717
10+400.000	3177953.781	475588.705
10+410.000	3177943.832	475587.692
10+420.000	3177933.883	475586.68
10+430.000	3177923.935	475585.668
10+440.000	3177913.986	475584.655
10+450.000	3177904.038	475583.643
10+460.000	3177894.089	475582.631
10+470.000	3177884.14	475581.619
10+480.000	3177874.192	475580.606
10+490.000	3177864.243	475579.594
10+500.000	3177854.294	475578.582
10+510.000	3177844.346	475577.57
10+520.000	3177834.397	475576.557
10+530.000	3177824.448	475575.545
10+540.000	3177814.5	475574.533
10+550.000	3177804.551	475573.521
10+560.000	3177794.603	475572.508
10+570.000	3177784.654	475571.496
10+580.000	3177774.705	475570.484
10+590.000	3177764.757	475569.472
10+600.000	3177754.808	475568.459
10+610.000	3177744.859	475567.447
10+620.000	3177734.911	475566.435
10+630.000	3177724.962	475565.423
10+640.000	3177715.013	475564.41
10+650.000	3177705.065	475563.398
10+660.000	3177695.116	475562.386
10+670.000	3177685.168	475561.373
10+680.000	3177675.219	475560.361
10+690.000	3177665.27	475559.349
10+700.000	3177655.322	475558.337
10+710.000	3177645.373	475557.324
10+720.000	3177635.424	475556.312
10+730.000	3177625.476	475555.3
10+740.000	3177615.527	475554.288
10+750.000	3177605.579	475553.275
10+760.000	3177595.63	475552.263
10+770.000	3177585.681	475551.251

Station	Northing	Easting
10+780.000	3177575.733	475550.239
10+790.000	3177565.784	475549.226
10+800.000	3177555.835	475548.214
10+810.000	3177545.887	475547.202
10+820.000	3177535.938	475546.19
10+830.000	3177525.989	475545.177
10+840.000	3177516.041	475544.165
10+850.000	3177506.092	475543.153
10+860.000	3177496.144	475542.14
10+870.000	3177486.195	475541.128
10+880.000	3177476.246	475540.116
10+890.000	3177466.298	475539.104
10+900.000	3177456.349	475538.091
10+910.000	3177446.4	475537.079
10+920.000	3177436.452	475536.067
10+930.000	3177426.503	475535.055
10+940.000	3177416.554	475534.042
10+950.000	3177406.606	475533.03
10+960.000	3177396.657	475532.018
10+970.000	3177386.709	475531.006
10+980.000	3177376.76	475529.993
10+990.000	3177366.811	475528.981
11+000.000	3177356.863	475527.969
11+010.000	3177346.914	475526.957
11+020.000	3177336.965	475525.944
11+030.000	3177327.017	475524.932
11+040.000	3177317.068	475523.921
11+050.000	3177307.119	475522.913
11+060.000	3177297.17	475521.908
11+070.000	3177287.22	475520.905
11+080.000	3177277.27	475519.904
11+090.000	3177267.32	475518.906
11+100.000	3177257.37	475517.91
11+110.000	3177247.419	475516.917
11+120.000	3177237.468	475515.926
11+130.000	3177227.517	475514.938
11+140.000	3177217.566	475513.952
11+150.000	3177207.615	475512.969
11+160.000	3177197.663	475511.988
11+170.000	3177187.711	475511.01
11+180.000	3177177.759	475510.034
11+190.000	3177167.806	475509.061
11+200.000	3177157.853	475508.09
11+210.000	3177147.9	475507.122
11+220.000	3177137.947	475506.156
11+230.000	3177127.993	475505.192
11+240.000	3177118.04	475504.232
11+250.000	3177108.086	475503.273
11+260.000	3177098.132	475502.317

Station	Northing	Easting
11+270.000	3177088.177	475501.364
11+280.000	3177078.222	475500.413
11+290.000	3177068.267	475499.465
11+300.000	3177058.312	475498.519
11+310.000	3177048.357	475497.575
11+320.000	3177038.401	475496.634
11+330.000	3177028.445	475495.696
11+340.000	3177018.489	475494.76
11+350.000	3177008.533	475493.826
11+360.000	3176998.576	475492.895
11+370.000	3176988.62	475491.967
11+380.000	3176978.663	475491.041
11+390.000	3176968.705	475490.117
11+400.000	3176958.748	475489.196
11+410.000	3176948.79	475488.278
11+420.000	3176938.832	475487.362
11+430.000	3176928.874	475486.448
11+440.000	3176918.916	475485.537
11+450.000	3176908.957	475484.629
11+460.000	3176898.998	475483.722
11+470.000	3176889.039	475482.819
11+480.000	3176879.08	475481.918
11+490.000	3176869.12	475481.019
11+500.000	3176859.16	475480.123
11+510.000	3176849.2	475479.229
11+520.000	3176839.24	475478.337
11+530.000	3176829.28	475477.445
11+540.000	3176819.32	475476.553
11+550.000	3176809.36	475475.661
11+560.000	3176799.4	475474.769
11+570.000	3176789.44	475473.877
11+580.000	3176779.479	475472.985
11+590.000	3176769.519	475472.093
11+600.000	3176759.559	475471.201
11+610.000	3176749.599	475470.309
11+620.000	3176739.639	475469.416
11+630.000	3176729.679	475468.524
11+640.000	3176719.719	475467.632
11+650.000	3176709.759	475466.74
11+660.000	3176699.798	475465.848
11+670.000	3176689.838	475464.956
11+680.000	3176679.878	475464.064
11+690.000	3176669.918	475463.172
11+700.000	3176659.958	475462.28
11+710.000	3176649.998	475461.388
11+720.000	3176640.038	475460.496
11+730.000	3176630.078	475459.604
11+740.000	3176620.117	475458.711
11+750.000	3176610.157	475457.819

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	06 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SCD/06

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
11+760.000	3176600.197	475456.927
11+770.000	3176590.237	475456.035
11+780.000	3176580.277	475455.143
11+790.000	3176570.317	475454.251
11+800.000	3176560.357	475453.359
11+810.000	3176550.396	475452.467
11+820.000	3176540.436	475451.575
11+830.000	3176530.476	475450.683
11+840.000	3176520.516	475449.791
11+850.000	3176510.556	475448.899
11+860.000	3176500.596	475448.006
11+870.000	3176490.636	475447.114
11+880.000	3176480.676	475446.222
11+890.000	3176470.715	475445.33
11+900.000	3176460.755	475444.438
11+910.000	3176450.795	475443.546
11+920.000	3176440.835	475442.654
11+930.000	3176430.875	475441.762
11+940.000	3176420.915	475440.87
11+950.000	3176410.955	475439.978
11+960.000	3176400.995	475439.086
11+970.000	3176391.034	475438.194
11+980.000	3176381.074	475437.301
11+990.000	3176371.114	475436.409
12+000.000	3176361.154	475435.517
12+010.000	3176351.194	475434.625
12+020.000	3176341.234	475433.733
12+030.000	3176331.274	475432.841
12+040.000	3176321.313	475431.949
12+050.000	3176311.353	475431.057
12+060.000	3176301.393	475430.165
12+070.000	3176291.433	475429.273
12+080.000	3176281.473	475428.381
12+090.000	3176271.513	475427.489
12+100.000	3176261.553	475426.596
12+110.000	3176251.593	475425.704
12+120.000	3176241.632	475424.812
12+130.000	3176231.672	475423.92
12+140.000	3176221.712	475423.028
12+150.000	3176211.752	475422.136
12+160.000	3176201.792	475421.244
12+170.000	3176191.832	475420.352
12+180.000	3176181.872	475419.46
12+190.000	3176171.912	475418.568
12+200.000	3176161.951	475417.676
12+210.000	3176151.991	475416.784
12+220.000	3176142.031	475415.891
12+230.000	3176132.071	475414.999
12+240.000	3176122.111	475414.107

Station	Northing	Easting
12+250.000	3176112.151	475413.215
12+260.000	3176102.191	475412.323
12+270.000	3176092.23	475411.431
12+280.000	3176082.27	475410.539
12+290.000	3176072.31	475409.647
12+300.000	3176062.35	475408.755
12+310.000	3176052.39	475407.863
12+320.000	3176042.43	475406.971
12+330.000	3176032.47	475406.079
12+340.000	3176022.51	475405.186
12+350.000	3176012.549	475404.294
12+360.000	3176002.589	475403.402
12+370.000	3175992.629	475402.51
12+380.000	3175982.669	475401.618
12+390.000	3175972.709	475400.726
12+400.000	3175962.749	475399.834
12+410.000	3175952.789	475398.942
12+420.000	3175942.829	475398.05
12+430.000	3175932.868	475397.158
12+440.000	3175922.908	475396.266
12+450.000	3175912.948	475395.374
12+460.000	3175902.988	475394.481
12+470.000	3175893.028	475393.589
12+480.000	3175883.068	475392.697
12+490.000	3175873.108	475391.805
12+500.000	3175863.148	475390.913
12+510.000	3175853.187	475390.021
12+520.000	3175843.227	475389.129
12+530.000	3175833.267	475388.237
12+540.000	3175823.307	475387.345
12+550.000	3175813.347	475386.453
12+560.000	3175803.387	475385.561
12+570.000	3175793.427	475384.669
12+580.000	3175783.466	475383.776
12+590.000	3175773.506	475382.884
12+600.000	3175763.546	475381.992
12+610.000	3175753.586	475381.1
12+620.000	3175743.626	475380.208
12+630.000	3175733.666	475379.316
12+640.000	3175723.706	475378.424
12+650.000	3175713.746	475377.532
12+660.000	3175703.785	475376.64
12+670.000	3175693.825	475375.748
12+680.000	3175683.865	475374.856
12+690.000	3175673.905	475373.964
12+700.000	3175663.945	475373.071
12+710.000	3175653.985	475372.179
12+720.000	3175644.025	475371.287
12+730.000	3175634.065	475370.395

Station	Northing	Easting
12+740.000	3175624.104	475369.503
12+750.000	3175614.144	475368.611
12+760.000	3175604.184	475367.719
12+770.000	3175594.224	475366.827
12+780.000	3175584.264	475365.935
12+790.000	3175574.304	475365.043
12+800.000	3175564.344	475364.151
12+810.000	3175554.383	475363.259
12+820.000	3175544.423	475362.366
12+830.000	3175534.463	475361.474
12+840.000	3175524.503	475360.582
12+850.000	3175514.543	475359.69
12+860.000	3175504.583	475358.798
12+870.000	3175494.623	475357.906
12+880.000	3175484.663	475357.014
12+890.000	3175474.702	475356.122
12+900.000	3175464.742	475355.23
12+910.000	3175454.782	475354.338
12+920.000	3175444.822	475353.446
12+930.000	3175434.862	475352.554
12+940.000	3175424.902	475351.661
12+950.000	3175414.942	475350.769
12+960.000	3175404.982	475349.877
12+970.000	3175395.021	475348.985
12+980.000	3175385.061	475348.093
12+990.000	3175375.101	475347.201
13+000.000	3175365.141	475346.309
13+010.000	3175355.181	475345.417
13+020.000	3175345.221	475344.525
13+030.000	3175335.261	475343.633
13+040.000	3175325.3	475342.741
13+050.000	3175315.34	475341.849
13+060.000	3175305.38	475340.956
13+070.000	3175295.42	475340.064
13+080.000	3175285.46	475339.172
13+090.000	3175275.5	475338.28
13+100.000	3175265.54	475337.388
13+110.000	3175255.58	475336.496
13+120.000	3175245.619	475335.604
13+130.000	3175235.659	475334.712
13+140.000	3175225.699	475333.82
13+150.000	3175215.739	475332.928
13+160.000	3175205.779	475332.036
13+170.000	3175195.819	475331.144
13+180.000	3175185.859	475330.251
13+190.000	3175175.899	475329.359
13+200.000	3175165.938	475328.467
13+210.000	3175155.978	475327.575
13+220.000	3175146.018	475326.683

Station	Northing	Easting
13+230.000	3175136.058	475325.791
13+240.000	3175126.098	475324.899
13+250.000	3175116.138	475324.007
13+260.000	3175106.178	475323.115
13+270.000	3175096.217	475322.223
13+280.000	3175086.257	475321.331
13+290.000	3175076.297	475320.439
13+300.000	3175066.337	475319.546
13+310.000	3175056.377	475318.654
13+320.000	3175046.417	475317.762
13+330.000	3175036.457	475316.87
13+340.000	3175026.497	475315.978
13+350.000	3175016.536	475315.086
13+360.000	3175006.576	475314.194
13+370.000	3174996.616	475313.302
13+380.000	3174986.656	475312.41
13+390.000	3174976.696	475311.518
13+400.000	3174966.736	475310.626
13+410.000	3174956.776	475309.734
13+420.000	3174946.816	475308.841
13+430.000	3174936.855	475307.949
13+440.000	3174926.895	475307.057
13+450.000	3174916.935	475306.165
13+460.000	3174906.975	475305.273
13+470.000	3174897.015	475304.381
13+480.000	3174887.055	475303.489
13+490.000	3174877.095	475302.597
13+500.000	3174867.135	475301.705
13+510.000	3174857.174	475300.813
13+520.000	3174847.214	475299.921
13+530.000	3174837.254	475299.029
13+540.000	3174827.294	475298.136
13+550.000	3174817.334	475297.244
13+560.000	3174807.374	475296.352
13+570.000	3174797.414	475295.46
13+580.000	3174787.453	475294.568
13+590.000	3174777.493	475293.676
13+600.000	3174767.533	475292.784
13+610.000	3174757.573	475291.892
13+620.000	3174747.613	475291
13+630.000	3174737.653	475290.108
13+640.000	3174727.693	475289.216
13+650.000	3174717.733	475288.324
13+660.000	3174707.772	475287.431
13+670.000	3174697.812	475286.539
13+680.000	3174687.852	475285.647
13+690.000	3174677.892	475284.755
13+700.000	3174667.932	475283.863
13+710.000	3174657.972	475282.971

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEFRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	07 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV. 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/07

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
13+720.000	3174648.012	475282.079
13+730.000	3174638.052	475281.187
13+740.000	3174628.091	475280.295
13+750.000	3174618.131	475279.403
13+760.000	3174608.171	475278.511
13+770.000	3174598.211	475277.619
13+780.000	3174588.251	475276.726
13+790.000	3174578.291	475275.834
13+800.000	3174568.331	475274.942
13+810.000	3174558.37	475274.05
13+820.000	3174548.41	475273.158
13+830.000	3174538.45	475272.266
13+840.000	3174528.49	475271.374
13+850.000	3174518.53	475270.482
13+860.000	3174508.57	475269.59
13+870.000	3174498.61	475268.698
13+880.000	3174488.65	475267.806
13+890.000	3174478.689	475266.914
13+900.000	3174468.729	475266.021
13+910.000	3174458.769	475265.129
13+920.000	3174448.809	475264.237
13+930.000	3174438.849	475263.345
13+940.000	3174428.889	475262.453
13+950.000	3174418.929	475261.561
13+960.000	3174408.969	475260.669
13+970.000	3174399.008	475259.777
13+980.000	3174389.048	475258.885
13+990.000	3174379.088	475257.993
14+000.000	3174369.128	475257.101
14+010.000	3174359.168	475256.209
14+020.000	3174349.208	475255.316
14+030.000	3174339.248	475254.424
14+040.000	3174329.287	475253.532
14+050.000	3174319.327	475252.64
14+060.000	3174309.367	475251.748
14+070.000	3174299.407	475250.856
14+080.000	3174289.447	475249.964
14+090.000	3174279.487	475249.072
14+100.000	3174269.527	475248.18
14+110.000	3174259.567	475247.288
14+120.000	3174249.606	475246.396
14+130.000	3174239.646	475245.504
14+140.000	3174229.686	475244.611
14+150.000	3174219.726	475243.719
14+160.000	3174209.766	475242.827
14+170.000	3174199.806	475241.935
14+180.000	3174189.846	475241.043
14+190.000	3174179.886	475240.151
14+200.000	3174169.925	475239.259

Station	Northing	Easting
14+210.000	3174159.965	475238.367
14+220.000	3174150.005	475237.475
14+230.000	3174140.045	475236.583
14+240.000	3174130.085	475235.691
14+250.000	3174120.125	475234.799
14+260.000	3174110.165	475233.906
14+270.000	3174100.205	475233.014
14+280.000	3174090.244	475232.122
14+290.000	3174080.284	475231.23
14+300.000	3174070.324	475230.338
14+310.000	3174060.364	475229.446
14+320.000	3174050.404	475228.554
14+330.000	3174040.444	475227.662
14+340.000	3174030.484	475226.77
14+350.000	3174020.523	475225.878
14+360.000	3174010.563	475224.986
14+370.000	3174000.603	475224.094
14+380.000	3173990.643	475223.201
14+390.000	3173980.683	475222.309
14+400.000	3173970.723	475221.417
14+410.000	3173960.763	475220.525
14+420.000	3173950.803	475219.633
14+430.000	3173940.842	475218.741
14+440.000	3173930.882	475217.849
14+450.000	3173920.922	475216.957
14+460.000	3173910.962	475216.065
14+470.000	3173901.002	475215.173
14+480.000	3173891.042	475214.281
14+490.000	3173881.082	475213.389
14+500.000	3173871.122	475212.496
14+510.000	3173861.161	475211.604
14+520.000	3173851.201	475210.712
14+530.000	3173841.241	475209.82
14+540.000	3173831.281	475208.928
14+550.000	3173821.321	475208.036
14+560.000	3173811.361	475207.144
14+570.000	3173801.401	475206.252
14+580.000	3173791.44	475205.36
14+590.000	3173781.48	475204.468
14+600.000	3173771.52	475203.576
14+610.000	3173761.56	475202.684
14+620.000	3173751.6	475201.791
14+630.000	3173741.64	475200.899
14+640.000	3173731.68	475200.007
14+650.000	3173721.72	475199.115
14+660.000	3173711.759	475198.223
14+670.000	3173701.799	475197.331
14+680.000	3173691.839	475196.439
14+690.000	3173681.879	475195.547

Station	Northing	Easting
14+700.000	3173671.919	475194.655
14+710.000	3173661.959	475193.763
14+720.000	3173651.999	475192.871
14+730.000	3173642.039	475191.979
14+740.000	3173632.078	475191.086
14+750.000	3173622.118	475190.194
14+760.000	3173612.158	475189.302
14+770.000	3173602.198	475188.41
14+780.000	3173592.238	475187.518
14+790.000	3173582.278	475186.626
14+800.000	3173572.318	475185.734
14+810.000	3173562.357	475184.842
14+820.000	3173552.397	475183.95
14+830.000	3173542.437	475183.058
14+840.000	3173532.477	475182.166
14+850.000	3173522.517	475181.274
14+860.000	3173512.557	475180.381
14+870.000	3173502.597	475179.489
14+880.000	3173492.637	475178.597
14+890.000	3173482.676	475177.705
14+900.000	3173472.716	475176.813
14+910.000	3173462.756	475175.921
14+920.000	3173452.796	475175.029
14+930.000	3173442.836	475174.137
14+940.000	3173432.876	475173.245
14+950.000	3173422.916	475172.353
14+960.000	3173412.956	475171.461
14+970.000	3173402.995	475170.569
14+980.000	3173393.035	475169.676
14+990.000	3173383.075	475168.784
15+000.000	3173373.115	475167.892
15+010.000	3173363.155	475167
15+020.000	3173353.195	475166.108
15+030.000	3173343.235	475165.216
15+040.000	3173333.275	475164.324
15+050.000	3173323.314	475163.432
15+060.000	3173313.354	475162.54
15+070.000	3173303.394	475161.648
15+080.000	3173293.434	475160.756
15+090.000	3173283.474	475159.864
15+100.000	3173273.514	475158.971
15+110.000	3173263.554	475158.079
15+120.000	3173253.593	475157.187
15+130.000	3173243.633	475156.295
15+140.000	3173233.673	475155.403
15+150.000	3173223.713	475154.511
15+160.000	3173213.753	475153.619
15+170.000	3173203.793	475152.727
15+180.000	3173193.833	475151.835

Station	Northing	Easting
15+190.000	3173183.873	475150.943
15+200.000	3173173.912	475150.051
15+210.000	3173163.952	475149.159
15+220.000	3173153.992	475148.266
15+230.000	3173144.032	475147.374
15+240.000	3173134.072	475146.482
15+250.000	3173124.112	475145.59
15+260.000	3173114.152	475144.698
15+270.000	3173104.192	475143.806
15+280.000	3173094.231	475142.914
15+290.000	3173084.271	475142.022
15+300.000	3173074.311	475141.13
15+310.000	3173064.351	475140.238
15+320.000	3173054.391	475139.346
15+330.000	3173044.431	475138.454
15+340.000	3173034.471	475137.561
15+350.000	3173024.51	475136.669
15+360.000	3173014.55	475135.777
15+370.000	3173004.59	475134.885
15+380.000	3172994.63	475133.993
15+390.000	3172984.67	475133.101
15+400.000	3172974.71	475132.209
15+410.000	3172964.75	475131.317
15+420.000	3172954.79	475130.425
15+430.000	3172944.829	475129.533
15+440.000	3172934.869	475128.641
15+450.000	3172924.909	475127.749
15+460.000	3172914.949	475126.856
15+470.000	3172904.989	475125.964
15+480.000	3172895.029	475125.072
15+490.000	3172885.069	475124.18
15+500.000	3172875.109	475123.288
15+510.000	3172865.148	475122.396
15+520.000	3172855.188	475121.504
15+530.000	3172845.228	475120.612
15+540.000	3172835.268	475119.72
15+550.000	3172825.308	475118.828
15+560.000	3172815.348	475117.936
15+570.000	3172805.388	475117.044
15+580.000	3172795.427	475116.151
15+590.000	3172785.467	475115.259
15+600.000	3172775.507	475114.367
15+610.000	3172765.547	475113.475
15+620.000	3172755.587	475112.583
15+630.000	3172745.627	475111.691
15+640.000	3172735.667	475110.799
15+650.000	3172725.707	475109.907
15+660.000	3172715.746	475109.015
15+670.000	3172705.786	475108.123

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZIERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Market, Islamabad
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	08 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SCD/08

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
15+680.000	3172695.826	475107.231
15+690.000	3172685.866	475106.339
15+700.000	3172675.906	475105.446
15+710.000	3172665.946	475104.554
15+720.000	3172655.986	475103.662
15+730.000	3172646.026	475102.77
15+740.000	3172636.065	475101.878
15+750.000	3172626.105	475100.986
15+760.000	3172616.145	475100.094
15+770.000	3172606.185	475099.202
15+780.000	3172596.225	475098.31
15+790.000	3172586.265	475097.418
15+800.000	3172576.305	475096.526
15+810.000	3172566.345	475095.634
15+820.000	3172556.384	475094.741
15+830.000	3172546.424	475093.849
15+840.000	3172536.464	475092.957
15+850.000	3172526.504	475092.065
15+860.000	3172516.544	475091.173
15+870.000	3172506.584	475090.281
15+880.000	3172496.624	475089.389
15+890.000	3172486.663	475088.497
15+900.000	3172476.703	475087.605
15+910.000	3172466.743	475086.713
15+920.000	3172456.783	475085.821
15+930.000	3172446.823	475084.929
15+940.000	3172436.863	475084.036
15+950.000	3172426.903	475083.144
15+960.000	3172416.943	475082.252
15+970.000	3172406.982	475081.36
15+980.000	3172397.022	475080.468
15+990.000	3172387.062	475079.576
16+000.000	3172377.102	475078.684
16+010.000	3172367.142	475077.792
16+020.000	3172357.182	475076.9
16+030.000	3172347.222	475076.008
16+040.000	3172337.262	475075.116
16+050.000	3172327.301	475074.224
16+060.000	3172317.341	475073.331
16+070.000	3172307.381	475072.439
16+080.000	3172297.421	475071.547
16+090.000	3172287.461	475070.655
16+100.000	3172277.501	475069.763
16+110.000	3172267.541	475068.871
16+120.000	3172257.58	475067.979
16+130.000	3172247.62	475067.087
16+140.000	3172237.66	475066.195
16+150.000	3172227.7	475065.303
16+160.000	3172217.74	475064.411

Station	Northing	Easting
16+170.000	3172207.78	475063.519
16+180.000	3172197.82	475062.626
16+190.000	3172187.86	475061.734
16+200.000	3172177.899	475060.842
16+210.000	3172167.939	475059.95
16+220.000	3172157.979	475059.058
16+230.000	3172148.019	475058.166
16+240.000	3172138.059	475057.274
16+250.000	3172128.099	475056.382
16+260.000	3172118.139	475055.49
16+270.000	3172108.179	475054.598
16+280.000	3172098.218	475053.706
16+290.000	3172088.258	475052.814
16+300.000	3172078.298	475051.921
16+310.000	3172068.338	475051.029
16+320.000	3172058.378	475050.137
16+330.000	3172048.418	475049.245
16+340.000	3172038.458	475048.353
16+350.000	3172028.497	475047.461
16+360.000	3172018.537	475046.569
16+370.000	3172008.577	475045.677
16+380.000	3171998.617	475044.785
16+390.000	3171988.657	475043.893
16+400.000	3171978.697	475043.001
16+410.000	3171968.737	475042.109
16+420.000	3171958.777	475041.216
16+430.000	3171948.816	475040.324
16+440.000	3171938.856	475039.432
16+450.000	3171928.896	475038.54
16+460.000	3171918.936	475037.648
16+470.000	3171908.976	475036.756
16+480.000	3171899.016	475035.864
16+490.000	3171889.056	475034.972
16+500.000	3171879.096	475034.08
16+510.000	3171869.135	475033.188
16+520.000	3171859.175	475032.296
16+530.000	3171849.215	475031.404
16+540.000	3171839.255	475030.511
16+550.000	3171829.295	475029.619
16+560.000	3171819.335	475028.727
16+570.000	3171809.375	475027.835
16+580.000	3171799.415	475026.943
16+590.000	3171789.454	475026.051
16+600.000	3171779.494	475025.159
16+610.000	3171769.534	475024.267
16+620.000	3171759.574	475023.375
16+630.000	3171749.614	475022.483
16+640.000	3171739.654	475021.591
16+650.000	3171729.694	475020.699

Station	Northing	Easting
16+660.000	3171719.733	475019.806
16+670.000	3171709.773	475018.914
16+680.000	3171699.813	475018.022
16+690.000	3171689.853	475017.13
16+700.000	3171679.893	475016.238
16+710.000	3171669.933	475015.346
16+720.000	3171659.973	475014.454
16+730.000	3171650.013	475013.562
16+740.000	3171640.052	475012.67
16+750.000	3171630.092	475011.778
16+760.000	3171620.132	475010.886
16+770.000	3171610.172	475009.994
16+780.000	3171600.212	475009.101
16+790.000	3171590.252	475008.209
16+800.000	3171580.292	475007.317
16+810.000	3171570.332	475006.425
16+820.000	3171560.371	475005.533
16+830.000	3171550.411	475004.641
16+840.000	3171540.451	475003.749
16+850.000	3171530.491	475002.857
16+860.000	3171520.531	475001.965
16+870.000	3171510.571	475001.073
16+880.000	3171500.611	475000.181
16+890.000	3171490.65	474999.289
16+900.000	3171480.69	474998.396
16+910.000	3171470.73	474997.504
16+920.000	3171460.77	474996.612
16+930.000	3171450.81	474995.72
16+940.000	3171440.85	474994.828
16+950.000	3171430.89	474993.936
16+960.000	3171420.93	474993.044
16+970.000	3171410.969	474992.152
16+980.000	3171401.009	474991.26
16+990.000	3171391.049	474990.368
17+000.000	3171381.089	474989.476
17+010.000	3171371.129	474988.584
17+020.000	3171361.169	474987.691
17+030.000	3171351.209	474986.799
17+040.000	3171341.249	474985.907
17+050.000	3171331.288	474985.015
17+060.000	3171321.328	474984.123
17+070.000	3171311.368	474983.231
17+080.000	3171301.408	474982.339
17+090.000	3171291.448	474981.447
17+100.000	3171281.488	474980.555
17+110.000	3171271.528	474979.663
17+120.000	3171261.567	474978.771
17+130.000	3171251.607	474977.879
17+140.000	3171241.647	474976.986

Station	Northing	Easting
17+150.000	3171231.687	474976.094
17+160.000	3171221.727	474975.202
17+170.000	3171211.767	474974.31
17+180.000	3171201.807	474973.418
17+190.000	3171191.847	474972.526
17+200.000	3171181.886	474971.634
17+210.000	3171171.926	474970.742
17+220.000	3171161.966	474969.85
17+230.000	3171152.006	474968.958
17+240.000	3171142.046	474968.066
17+250.000	3171132.086	474967.174
17+260.000	3171122.126	474966.281
17+270.000	3171112.166	474965.389
17+280.000	3171102.205	474964.497
17+290.000	3171092.245	474963.605
17+300.000	3171082.285	474962.713
17+310.000	3171072.325	474961.821
17+320.000	3171062.365	474960.929
17+330.000	3171052.405	474960.037
17+340.000	3171042.445	474959.145
17+350.000	3171032.485	474958.253
17+360.000	3171022.524	474957.361
17+370.000	3171012.564	474956.469
17+380.000	3171002.604	474955.576
17+390.000	3170992.644	474954.684
17+400.000	3170982.684	474953.792
17+410.000	3170972.724	474952.9
17+420.000	3170962.764	474952.008
17+430.000	3170952.803	474951.116
17+440.000	3170942.843	474950.224
17+450.000	3170932.883	474949.332
17+460.000	3170922.923	474948.44
17+470.000	3170912.963	474947.548
17+480.000	3170903.003	474946.656
17+490.000	3170893.043	474945.764
17+500.000	3170883.083	474944.871
17+510.000	3170873.122	474943.979
17+520.000	3170863.162	474943.087
17+530.000	3170853.202	474942.195
17+540.000	3170843.242	474941.303
17+550.000	3170833.282	474940.411
17+560.000	3170823.322	474939.519
17+570.000	3170813.362	474938.627
17+580.000	3170803.402	474937.735
17+590.000	3170793.441	474936.843
17+600.000	3170783.481	474935.951
17+610.000	3170773.521	474935.059
17+620.000	3170763.561	474934.166
17+630.000	3170753.601	474933.274

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZIBRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	09 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/09

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
17+640.000	3170743.641	474932.382
17+650.000	3170733.681	474931.49
17+660.000	3170723.72	474930.598
17+670.000	3170713.76	474929.706
17+680.000	3170703.8	474928.814
17+690.000	3170693.84	474927.922
17+700.000	3170683.88	474927.03
17+710.000	3170673.92	474926.138
17+720.000	3170663.96	474925.246
17+730.000	3170654	474924.354
17+740.000	3170644.039	474923.461
17+750.000	3170634.079	474922.569
17+760.000	3170624.119	474921.677
17+770.000	3170614.159	474920.785
17+780.000	3170604.199	474919.893
17+790.000	3170594.239	474919.001
17+800.000	3170584.279	474918.109
17+810.000	3170574.319	474917.217
17+820.000	3170564.358	474916.325
17+830.000	3170554.398	474915.433
17+840.000	3170544.438	474914.541
17+850.000	3170534.478	474913.649
17+860.000	3170524.518	474912.756
17+870.000	3170514.558	474911.864
17+880.000	3170504.598	474910.972
17+890.000	3170494.637	474910.08
17+900.000	3170484.677	474909.188
17+910.000	3170474.717	474908.296
17+920.000	3170464.757	474907.404
17+930.000	3170454.797	474906.512
17+940.000	3170444.837	474905.62
17+950.000	3170434.877	474904.728
17+960.000	3170424.917	474903.836
17+970.000	3170414.956	474902.944
17+980.000	3170404.996	474902.051
17+990.000	3170395.036	474901.159
18+000.000	3170385.076	474900.267
18+010.000	3170375.116	474899.375
18+020.000	3170365.156	474898.483
18+030.000	3170355.196	474897.591
18+040.000	3170345.236	474896.699
18+050.000	3170335.275	474895.807
18+060.000	3170325.315	474894.915
18+070.000	3170315.355	474894.023
18+080.000	3170305.395	474893.131
18+090.000	3170295.435	474892.239
18+100.000	3170285.475	474891.346
18+110.000	3170275.515	474890.454
18+120.000	3170265.555	474889.562

Station	Northing	Easting
18+130.000	3170255.594	474888.67
18+140.000	3170245.634	474887.778
18+150.000	3170235.674	474886.886
18+160.000	3170225.714	474885.994
18+170.000	3170215.754	474885.102
18+180.000	3170205.794	474884.21
18+190.000	3170195.834	474883.318
18+200.000	3170185.873	474882.426
18+210.000	3170175.913	474881.534
18+220.000	3170165.953	474880.641
18+230.000	3170155.993	474879.749
18+240.000	3170146.033	474878.857
18+250.000	3170136.073	474877.965
18+260.000	3170126.113	474877.073
18+270.000	3170116.153	474876.181
18+280.000	3170106.192	474875.289
18+290.000	3170096.232	474874.397
18+300.000	3170086.272	474873.505
18+310.000	3170076.312	474872.613
18+320.000	3170066.352	474871.721
18+330.000	3170056.392	474870.829
18+340.000	3170046.432	474869.936
18+350.000	3170036.472	474869.044
18+360.000	3170026.511	474868.152
18+370.000	3170016.551	474867.26
18+380.000	3170006.591	474866.368
18+390.000	3169996.631	474865.476
18+400.000	3169986.671	474864.584
18+410.000	3169976.711	474863.692
18+420.000	3169966.751	474862.8
18+430.000	3169956.79	474861.908
18+440.000	3169946.83	474861.016
18+450.000	3169936.87	474860.124
18+460.000	3169926.91	474859.231
18+470.000	3169916.95	474858.339
18+480.000	3169906.99	474857.447
18+490.000	3169897.03	474856.555
18+500.000	3169887.07	474855.663
18+510.000	3169877.109	474854.771
18+520.000	3169867.149	474853.879
18+530.000	3169857.189	474852.987
18+540.000	3169847.229	474852.095
18+550.000	3169837.269	474851.203
18+560.000	3169827.309	474850.311
18+570.000	3169817.349	474849.419
18+580.000	3169807.389	474848.526
18+590.000	3169797.428	474847.634
18+600.000	3169787.468	474846.742
18+610.000	3169777.508	474845.85

Station	Northing	Easting
18+620.000	3169767.548	474844.958
18+630.000	3169757.588	474844.066
18+640.000	3169747.628	474843.174
18+650.000	3169737.668	474842.282
18+660.000	3169727.707	474841.39
18+670.000	3169717.747	474840.498
18+680.000	3169707.787	474839.606
18+690.000	3169697.827	474838.714
18+700.000	3169687.867	474837.821
18+710.000	3169677.907	474836.929
18+720.000	3169667.947	474836.037
18+730.000	3169657.987	474835.145
18+740.000	3169648.026	474834.253
18+750.000	3169638.066	474833.361
18+760.000	3169628.106	474832.469
18+770.000	3169618.146	474831.577
18+780.000	3169608.186	474830.685
18+790.000	3169598.226	474829.793
18+800.000	3169588.266	474828.901
18+810.000	3169578.306	474828.009
18+820.000	3169568.345	474827.116
18+830.000	3169558.385	474826.224
18+840.000	3169548.425	474825.332
18+850.000	3169538.465	474824.44
18+860.000	3169528.505	474823.548
18+870.000	3169518.545	474822.656
18+880.000	3169508.585	474821.764
18+890.000	3169498.624	474820.872
18+900.000	3169488.664	474819.98
18+910.000	3169478.704	474819.088
18+920.000	3169468.744	474818.196
18+930.000	3169458.784	474817.304
18+940.000	3169448.824	474816.411
18+950.000	3169438.864	474815.519
18+960.000	3169428.904	474814.627
18+970.000	3169418.943	474813.735
18+980.000	3169408.983	474812.843
18+990.000	3169399.023	474811.951
19+000.000	3169389.063	474811.059
19+010.000	3169379.103	474810.167
19+020.000	3169369.143	474809.275
19+030.000	3169359.183	474808.383
19+040.000	3169349.223	474807.491
19+050.000	3169339.262	474806.599
19+060.000	3169329.302	474805.706
19+070.000	3169319.342	474804.814
19+080.000	3169309.382	474803.922
19+090.000	3169299.422	474803.03
19+100.000	3169289.462	474802.138

Station	Northing	Easting
19+110.000	3169279.502	474801.246
19+120.000	3169269.542	474800.354
19+130.000	3169259.581	474799.462
19+140.000	3169249.621	474798.57
19+150.000	3169239.661	474797.678
19+160.000	3169229.701	474796.786
19+170.000	3169219.741	474795.894
19+180.000	3169209.781	474795.001
19+190.000	3169199.821	474794.109
19+200.000	3169189.86	474793.217
19+210.000	3169179.9	474792.325
19+220.000	3169169.94	474791.433
19+230.000	3169159.98	474790.541
19+240.000	3169150.02	474789.649
19+250.000	3169140.06	474788.757
19+260.000	3169130.1	474787.865
19+270.000	3169120.14	474786.973
19+280.000	3169110.179	474786.081
19+290.000	3169100.219	474785.189
19+300.000	3169090.259	474784.296
19+310.000	3169080.299	474783.404
19+320.000	3169070.339	474782.512
19+330.000	3169060.379	474781.62
19+340.000	3169050.419	474780.728
19+350.000	3169040.459	474779.836
19+360.000	3169030.498	474778.944
19+370.000	3169020.538	474778.052
19+380.000	3169010.578	474777.16
19+390.000	3169000.618	474776.268
19+400.000	3168990.658	474775.376
19+410.000	3168980.698	474774.484
19+420.000	3168970.738	474773.591
19+430.000	3168960.777	474772.699
19+440.000	3168950.817	474771.807
19+450.000	3168940.857	474770.915
19+460.000	3168930.897	474770.023
19+470.000	3168920.937	474769.131
19+480.000	3168910.977	474768.239
19+490.000	3168901.017	474767.347
19+500.000	3168891.057	474766.455
19+510.000	3168881.096	474765.563
19+520.000	3168871.136	474764.671
19+530.000	3168861.176	474763.779
19+540.000	3168851.216	474762.886
19+550.000	3168841.256	474761.994
19+560.000	3168831.296	474761.102
19+570.000	3168821.336	474760.21
19+580.000	3168811.376	474759.318
19+590.000	3168801.415	474758.426

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZIBERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
5-B Mo'ooz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	10 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/10

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
19+600.000	3168791.455	474757.534
19+610.000	3168781.495	474756.642
19+620.000	3168771.535	474755.75
19+630.000	3168761.575	474754.858
19+640.000	3168751.615	474753.966
19+650.000	3168741.655	474753.074
19+660.000	3168731.694	474752.181
19+670.000	3168721.734	474751.289
19+680.000	3168711.774	474750.397
19+690.000	3168701.814	474749.505
19+700.000	3168691.854	474748.613
19+710.000	3168681.894	474747.721
19+720.000	3168671.934	474746.829
19+730.000	3168661.974	474745.937
19+740.000	3168652.013	474745.045
19+750.000	3168642.053	474744.153
19+760.000	3168632.093	474743.261
19+770.000	3168622.133	474742.369
19+780.000	3168612.173	474741.476
19+790.000	3168602.213	474740.584
19+800.000	3168592.253	474739.692
19+810.000	3168582.293	474738.8
19+820.000	3168572.332	474737.908
19+830.000	3168562.372	474737.016
19+840.000	3168552.412	474736.124
19+850.000	3168542.452	474735.232
19+860.000	3168532.492	474734.34
19+870.000	3168522.532	474733.448
19+880.000	3168512.572	474732.556
19+890.000	3168502.612	474731.664
19+900.000	3168492.651	474730.771
19+910.000	3168482.691	474729.879
19+920.000	3168472.731	474728.987
19+930.000	3168462.771	474728.095
19+940.000	3168452.811	474727.203
19+950.000	3168442.851	474726.311
19+960.000	3168432.891	474725.419
19+970.000	3168422.93	474724.527
19+980.000	3168412.97	474723.635
19+990.000	3168403.01	474722.743
20+000.000	3168393.05	474721.851
20+010.000	3168383.09	474720.959
20+020.000	3168373.13	474720.066
20+030.000	3168363.17	474719.174
20+040.000	3168353.21	474718.282
20+050.000	3168343.249	474717.39
20+060.000	3168333.289	474716.498
20+070.000	3168323.329	474715.606
20+080.000	3168313.369	474714.714

Station	Northing	Easting
20+090.000	3168303.409	474713.822
20+100.000	3168293.449	474712.93
20+110.000	3168283.489	474712.038
20+120.000	3168273.529	474711.146
20+130.000	3168263.568	474710.254
20+140.000	3168253.608	474709.361
20+150.000	3168243.648	474708.469
20+160.000	3168233.688	474707.577
20+170.000	3168223.728	474706.685
20+180.000	3168213.768	474705.793
20+190.000	3168203.808	474704.901
20+200.000	3168193.847	474704.009
20+210.000	3168183.887	474703.117
20+220.000	3168173.927	474702.225
20+230.000	3168163.967	474701.333
20+240.000	3168154.007	474700.441
20+250.000	3168144.047	474699.549
20+260.000	3168134.087	474698.656
20+270.000	3168124.127	474697.764
20+280.000	3168114.166	474696.872
20+290.000	3168104.206	474695.98
20+300.000	3168094.246	474695.088
20+310.000	3168084.286	474694.196
20+320.000	3168074.326	474693.304
20+330.000	3168064.366	474692.412
20+340.000	3168054.406	474691.52
20+350.000	3168044.446	474690.628
20+360.000	3168034.485	474689.736
20+370.000	3168024.525	474688.844
20+380.000	3168014.565	474687.951
20+390.000	3168004.605	474687.059
20+400.000	3167994.645	474686.167
20+410.000	3167984.685	474685.275
20+420.000	3167974.725	474684.383
20+430.000	3167964.764	474683.491
20+440.000	3167954.804	474682.599
20+450.000	3167944.844	474681.707
20+460.000	3167934.884	474680.815
20+470.000	3167924.924	474679.923
20+480.000	3167914.964	474679.031
20+490.000	3167905.004	474678.139
20+500.000	3167895.044	474677.247
20+510.000	3167885.083	474676.354
20+520.000	3167875.123	474675.462
20+530.000	3167865.163	474674.57
20+540.000	3167855.203	474673.678
20+550.000	3167845.243	474672.786
20+560.000	3167835.283	474671.894
20+570.000	3167825.323	474671.002

Station	Northing	Easting
20+580.000	3167815.363	474670.11
20+590.000	3167805.402	474669.218
20+600.000	3167795.442	474668.326
20+610.000	3167785.482	474667.434
20+620.000	3167775.522	474666.542
20+630.000	3167765.562	474665.649
20+640.000	3167755.602	474664.757
20+650.000	3167745.642	474663.865
20+660.000	3167735.682	474662.973
20+670.000	3167725.721	474662.081
20+680.000	3167715.761	474661.189
20+690.000	3167705.801	474660.297
20+700.000	3167695.841	474659.405
20+710.000	3167685.881	474658.513
20+720.000	3167675.921	474657.621
20+730.000	3167665.961	474656.729
20+740.000	3167656	474655.837
20+750.000	3167646.04	474654.944
20+760.000	3167636.08	474654.052
20+770.000	3167626.12	474653.16
20+780.000	3167616.16	474652.268
20+790.000	3167606.2	474651.376
20+800.000	3167596.24	474650.484
20+810.000	3167586.28	474649.592
20+820.000	3167576.319	474648.7
20+830.000	3167566.359	474647.808
20+840.000	3167556.399	474646.916
20+850.000	3167546.439	474646.024
20+860.000	3167536.479	474645.132
20+870.000	3167526.519	474644.239
20+880.000	3167516.559	474643.347
20+890.000	3167506.599	474642.455
20+900.000	3167496.638	474641.563
20+910.000	3167486.678	474640.671
20+920.000	3167476.718	474639.779
20+930.000	3167466.758	474638.887
20+940.000	3167456.798	474637.995
20+950.000	3167446.838	474637.103
20+960.000	3167436.878	474636.211
20+970.000	3167426.917	474635.319
20+980.000	3167416.957	474634.427
20+990.000	3167406.997	474633.534
21+000.000	3167397.037	474632.642
21+010.000	3167387.077	474631.75
21+020.000	3167377.117	474630.858
21+030.000	3167367.157	474629.966
21+040.000	3167357.197	474629.074
21+050.000	3167347.236	474628.182
21+060.000	3167337.276	474627.29

Station	Northing	Easting
21+070.000	3167327.316	474626.398
21+080.000	3167317.356	474625.506
21+090.000	3167307.396	474624.614
21+100.000	3167297.436	474623.722
21+110.000	3167287.476	474622.829
21+120.000	3167277.516	474621.937
21+130.000	3167267.555	474621.045
21+140.000	3167257.595	474620.153
21+150.000	3167247.635	474619.261
21+160.000	3167237.675	474618.369
21+170.000	3167227.715	474617.477
21+180.000	3167217.755	474616.585
21+190.000	3167207.795	474615.693
21+200.000	3167197.834	474614.801
21+210.000	3167187.874	474613.909
21+220.000	3167177.914	474613.017
21+230.000	3167167.954	474612.124
21+240.000	3167157.994	474611.232
21+250.000	3167148.034	474610.34
21+260.000	3167138.074	474609.448
21+270.000	3167128.114	474608.556
21+280.000	3167118.153	474607.664
21+290.000	3167108.193	474606.772
21+300.000	3167098.233	474605.88
21+310.000	3167088.273	474604.988
21+320.000	3167078.313	474604.096
21+330.000	3167068.353	474603.204
21+340.000	3167058.393	474602.312
21+350.000	3167048.433	474601.419
21+360.000	3167038.472	474600.527
21+370.000	3167028.512	474599.635
21+380.000	3167018.552	474598.743
21+390.000	3167008.592	474597.851
21+400.000	3166998.632	474596.959
21+410.000	3166988.672	474596.067
21+420.000	3166978.712	474595.175
21+430.000	3166968.752	474594.283
21+440.000	3166958.791	474593.391
21+450.000	3166948.831	474592.499
21+460.000	3166938.871	474591.607
21+470.000	3166928.911	474590.714
21+480.000	3166918.951	474589.822
21+490.000	3166908.991	474588.93
21+500.000	3166899.031	474588.038
21+510.000	3166889.07	474587.146
21+520.000	3166879.11	474586.254
21+530.000	3166869.15	474585.362
21+540.000	3166859.19	474584.47
21+550.000	3166849.23	474583.578

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZIERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS

DRAWING TITLE:
STATION COORDINATES DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	11 OF 52
DRAWN BY:	SCALE:
RAJA FARIAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/11

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
21+560.000	3166839.27	474582.686
21+570.000	3166829.31	474581.794
21+580.000	3166819.35	474580.902
21+590.000	3166809.389	474580.009
21+600.000	3166799.429	474579.117
21+610.000	3166789.469	474578.225
21+620.000	3166779.509	474577.333
21+630.000	3166769.549	474576.441
21+640.000	3166759.589	474575.549
21+650.000	3166749.629	474574.657
21+660.000	3166739.669	474573.765
21+670.000	3166729.708	474572.873
21+680.000	3166719.748	474571.981
21+690.000	3166709.788	474571.089
21+700.000	3166699.828	474570.197
21+710.000	3166689.868	474569.304
21+720.000	3166679.908	474568.412
21+730.000	3166669.948	474567.52
21+740.000	3166659.987	474566.628
21+750.000	3166650.027	474565.736
21+760.000	3166640.067	474564.844
21+770.000	3166630.107	474563.952
21+780.000	3166620.147	474563.06
21+790.000	3166610.187	474562.168
21+800.000	3166600.227	474561.276
21+810.000	3166590.267	474560.384
21+820.000	3166580.306	474559.492
21+830.000	3166570.346	474558.599
21+840.000	3166560.386	474557.707
21+850.000	3166550.426	474556.815
21+860.000	3166540.466	474555.923
21+870.000	3166530.506	474555.031
21+880.000	3166520.546	474554.139
21+890.000	3166510.586	474553.247
21+900.000	3166500.625	474552.355
21+910.000	3166490.665	474551.463
21+920.000	3166480.705	474550.571
21+930.000	3166470.745	474549.679
21+940.000	3166460.785	474548.787
21+950.000	3166450.825	474547.894
21+960.000	3166440.865	474547.002
21+970.000	3166430.904	474546.11
21+980.000	3166420.944	474545.218
21+990.000	3166410.984	474544.326
22+000.000	3166401.024	474543.434
22+010.000	3166391.064	474542.542
22+020.000	3166381.104	474541.65
22+030.000	3166371.144	474540.758
22+040.000	3166361.184	474539.866

Station	Northing	Easting
22+050.000	3166351.223	474538.974
22+060.000	3166341.263	474538.082
22+070.000	3166331.303	474537.189
22+080.000	3166321.343	474536.297
22+090.000	3166311.383	474535.405
22+100.000	3166301.423	474534.513
22+110.000	3166291.463	474533.621
22+120.000	3166281.503	474532.729
22+130.000	3166271.542	474531.837
22+140.000	3166261.582	474530.945
22+150.000	3166251.622	474530.053
22+160.000	3166241.662	474529.161
22+170.000	3166231.702	474528.269
22+180.000	3166221.742	474527.377
22+190.000	3166211.782	474526.484
22+200.000	3166201.822	474525.592
22+210.000	3166191.861	474524.7
22+220.000	3166181.901	474523.808
22+230.000	3166171.941	474522.916
22+240.000	3166161.981	474522.024
22+250.000	3166152.021	474521.132
22+260.000	3166142.061	474520.24
22+270.000	3166132.101	474519.348
22+280.000	3166122.14	474518.456
22+290.000	3166112.18	474517.564
22+300.000	3166102.22	474516.672
22+310.000	3166092.26	474515.779
22+320.000	3166082.3	474514.887
22+330.000	3166072.34	474513.995
22+340.000	3166062.38	474513.103
22+350.000	3166052.42	474512.211
22+360.000	3166042.459	474511.319
22+370.000	3166032.499	474510.427
22+380.000	3166022.539	474509.535
22+390.000	3166012.579	474508.643
22+400.000	3166002.619	474507.751
22+410.000	3165992.659	474506.859
22+420.000	3165982.699	474505.967
22+430.000	3165972.739	474505.074
22+440.000	3165962.778	474504.182
22+450.000	3165952.818	474503.29
22+460.000	3165942.858	474502.398
22+470.000	3165932.898	474501.506
22+480.000	3165922.938	474500.614
22+490.000	3165912.978	474499.722
22+500.000	3165903.018	474498.83
22+510.000	3165893.057	474497.938
22+520.000	3165883.097	474497.046
22+530.000	3165873.137	474496.154

Station	Northing	Easting
22+540.000	3165863.177	474495.262
22+550.000	3165853.217	474494.369
22+560.000	3165843.257	474493.477
22+570.000	3165833.297	474492.585
22+580.000	3165823.337	474491.693
22+590.000	3165813.376	474490.801
22+600.000	3165803.416	474489.909
22+610.000	3165793.456	474489.017
22+620.000	3165783.496	474488.125
22+630.000	3165773.536	474487.233
22+640.000	3165763.576	474486.341
22+650.000	3165753.616	474485.449
22+660.000	3165743.656	474484.557
22+670.000	3165733.695	474483.664
22+680.000	3165723.735	474482.772
22+690.000	3165713.775	474481.88
22+700.000	3165703.815	474480.988
22+710.000	3165693.855	474480.096
22+720.000	3165683.895	474479.204
22+730.000	3165673.935	474478.312
22+740.000	3165663.974	474477.42
22+750.000	3165654.014	474476.528
22+760.000	3165644.054	474475.636
22+770.000	3165634.094	474474.744
22+780.000	3165624.134	474473.852
22+790.000	3165614.174	474472.959
22+800.000	3165604.214	474472.067
22+810.000	3165594.254	474471.175
22+820.000	3165584.293	474470.283
22+830.000	3165574.333	474469.391
22+840.000	3165564.373	474468.499
22+850.000	3165554.413	474467.607
22+860.000	3165544.453	474466.715
22+870.000	3165534.493	474465.823
22+880.000	3165524.533	474464.931
22+890.000	3165514.573	474464.039
22+900.000	3165504.612	474463.147
22+910.000	3165494.652	474462.254
22+920.000	3165484.692	474461.362
22+930.000	3165474.732	474460.47
22+940.000	3165464.772	474459.578
22+950.000	3165454.812	474458.686
22+960.000	3165444.852	474457.794
22+970.000	3165434.892	474456.902
22+980.000	3165424.931	474456.01
22+990.000	3165414.971	474455.118
23+000.000	3165405.011	474454.226
23+010.000	3165395.051	474453.334
23+020.000	3165385.091	474452.442

Station	Northing	Easting
23+030.000	3165375.131	474451.549
23+040.000	3165365.171	474450.657
23+050.000	3165355.21	474449.765
23+060.000	3165345.25	474448.873
23+070.000	3165335.29	474447.981
23+080.000	3165325.33	474447.089
23+090.000	3165315.37	474446.197
23+100.000	3165305.41	474445.305
23+110.000	3165295.45	474444.413
23+120.000	3165285.49	474443.521
23+130.000	3165275.529	474442.629
23+140.000	3165265.569	474441.737
23+150.000	3165255.609	474440.844
23+160.000	3165245.649	474439.952
23+170.000	3165235.689	474439.06
23+180.000	3165225.729	474438.168
23+190.000	3165215.769	474437.276
23+200.000	3165205.809	474436.384
23+210.000	3165195.848	474435.492
23+220.000	3165185.888	474434.6
23+230.000	3165175.928	474433.708
23+240.000	3165165.968	474432.816
23+250.000	3165156.008	474431.924
23+260.000	3165146.048	474431.032
23+270.000	3165136.088	474430.139
23+280.000	3165126.127	474429.247
23+290.000	3165116.167	474428.355
23+300.000	3165106.207	474427.463
23+310.000	3165096.247	474426.571
23+320.000	3165086.287	474425.679
23+330.000	3165076.327	474424.787
23+340.000	3165066.367	474423.895
23+350.000	3165056.407	474423.003
23+360.000	3165046.446	474422.111
23+370.000	3165036.486	474421.219
23+380.000	3165026.526	474420.327
23+390.000	3165016.566	474419.434
23+400.000	3165006.606	474418.542
23+410.000	3164996.646	474417.65
23+420.000	3164986.686	474416.758
23+430.000	3164976.726	474415.866
23+440.000	3164966.765	474414.974
23+450.000	3164956.805	474414.082
23+460.000	3164946.845	474413.19
23+470.000	3164936.885	474412.298
23+480.000	3164926.925	474411.406
23+490.000	3164916.965	474410.514
23+500.000	3164907.005	474409.622
23+510.000	3164897.044	474408.729

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	12 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/12

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
23+520.000	3164887.084	474407.837
23+530.000	3164877.124	474406.945
23+540.000	3164867.164	474406.053
23+550.000	3164857.204	474405.161
23+560.000	3164847.244	474404.269
23+570.000	3164837.284	474403.377
23+580.000	3164827.324	474402.485
23+590.000	3164817.363	474401.593
23+600.000	3164807.403	474400.701
23+610.000	3164797.443	474399.809
23+620.000	3164787.483	474398.917
23+630.000	3164777.523	474398.024
23+640.000	3164767.563	474397.132
23+650.000	3164757.603	474396.24
23+660.000	3164747.643	474395.348
23+670.000	3164737.682	474394.456
23+680.000	3164727.722	474393.564
23+690.000	3164717.762	474392.672
23+700.000	3164707.802	474391.78
23+710.000	3164697.842	474390.888
23+720.000	3164687.882	474389.996
23+730.000	3164677.922	474389.104
23+740.000	3164667.962	474388.212
23+750.000	3164658.001	474387.319
23+760.000	3164648.041	474386.427
23+770.000	3164638.081	474385.535
23+780.000	3164628.121	474384.643
23+790.000	3164618.161	474383.751
23+800.000	3164608.201	474382.859
23+810.000	3164598.241	474381.967
23+820.000	3164588.28	474381.075
23+830.000	3164578.32	474380.183
23+840.000	3164568.36	474379.291
23+850.000	3164558.4	474378.399
23+860.000	3164548.44	474377.507
23+870.000	3164538.48	474376.614
23+880.000	3164528.52	474375.722
23+890.000	3164518.56	474374.83
23+900.000	3164508.599	474373.938
23+910.000	3164498.639	474373.046
23+920.000	3164488.679	474372.154
23+930.000	3164478.719	474371.262
23+940.000	3164468.759	474370.37
23+950.000	3164458.799	474369.478
23+960.000	3164448.839	474368.586
23+970.000	3164438.879	474367.694
23+980.000	3164428.918	474366.802
23+990.000	3164418.958	474365.909
24+000.000	3164408.998	474365.017

Station	Northing	Easting
24+010.000	3164399.038	474364.125
24+020.000	3164389.078	474363.233
24+030.000	3164379.118	474362.341
24+040.000	3164369.158	474361.449
24+050.000	3164359.197	474360.557
24+060.000	3164349.237	474359.665
24+070.000	3164339.277	474358.773
24+080.000	3164329.317	474357.881
24+090.000	3164319.357	474356.989
24+100.000	3164309.397	474356.097
24+110.000	3164299.437	474355.204
24+120.000	3164289.477	474354.312
24+130.000	3164279.516	474353.42
24+140.000	3164269.556	474352.528
24+150.000	3164259.596	474351.636
24+160.000	3164249.636	474350.744
24+170.000	3164239.676	474349.852
24+180.000	3164229.716	474348.96
24+190.000	3164219.756	474348.068
24+200.000	3164209.796	474347.176
24+210.000	3164199.835	474346.284
24+220.000	3164189.875	474345.392
24+230.000	3164179.915	474344.499
24+240.000	3164169.955	474343.607
24+250.000	3164159.995	474342.715
24+260.000	3164150.035	474341.823
24+270.000	3164140.075	474340.931
24+280.000	3164130.114	474340.039
24+290.000	3164120.154	474339.147
24+300.000	3164110.194	474338.255
24+310.000	3164100.234	474337.363
24+320.000	3164090.274	474336.471
24+330.000	3164080.314	474335.579
24+340.000	3164070.354	474334.687
24+350.000	3164060.394	474333.794
24+360.000	3164050.433	474332.902
24+370.000	3164040.473	474332.01
24+380.000	3164030.513	474331.118
24+390.000	3164020.553	474330.226
24+400.000	3164010.593	474329.334
24+410.000	3164000.633	474328.442
24+420.000	3163990.673	474327.55
24+430.000	3163980.713	474326.658
24+440.000	3163970.752	474325.766
24+450.000	3163960.792	474324.874
24+460.000	3163950.832	474323.982
24+470.000	3163940.872	474323.089
24+480.000	3163930.912	474322.197
24+490.000	3163920.952	474321.305

Station	Northing	Easting
24+500.000	3163910.992	474320.413
24+510.000	3163901.031	474319.521
24+520.000	3163891.071	474318.629
24+530.000	3163881.111	474317.737
24+540.000	3163871.151	474316.845
24+550.000	3163861.191	474315.953
24+560.000	3163851.231	474315.061
24+570.000	3163841.271	474314.169
24+580.000	3163831.311	474313.277
24+590.000	3163821.35	474312.384
24+600.000	3163811.39	474311.492
24+610.000	3163801.43	474310.6
24+620.000	3163791.47	474309.708
24+630.000	3163781.51	474308.816
24+640.000	3163771.55	474307.924
24+650.000	3163761.59	474307.032
24+660.000	3163751.63	474306.14
24+670.000	3163741.669	474305.248
24+680.000	3163731.709	474304.356
24+690.000	3163721.749	474303.464
24+700.000	3163711.789	474302.572
24+710.000	3163701.829	474301.679
24+720.000	3163691.869	474300.787
24+730.000	3163681.909	474299.895
24+740.000	3163671.949	474299.003
24+750.000	3163661.988	474298.111
24+760.000	3163652.028	474297.219
24+770.000	3163642.068	474296.327
24+780.000	3163632.108	474295.435
24+790.000	3163622.148	474294.543
24+800.000	3163612.188	474293.651
24+810.000	3163602.228	474292.759
24+820.000	3163592.267	474291.867
24+830.000	3163582.307	474290.974
24+840.000	3163572.347	474290.082
24+850.000	3163562.387	474289.19
24+860.000	3163552.427	474288.298
24+870.000	3163542.467	474287.406
24+880.000	3163532.507	474286.514
24+890.000	3163522.547	474285.622
24+900.000	3163512.586	474284.73
24+910.000	3163502.626	474283.838
24+920.000	3163492.666	474282.946
24+930.000	3163482.706	474282.054
24+940.000	3163472.746	474281.162
24+950.000	3163462.786	474280.269
24+960.000	3163452.826	474279.377
24+970.000	3163442.866	474278.485
24+980.000	3163432.905	474277.593

Station	Northing	Easting
24+990.000	3163422.945	474276.701
25+000.000	3163412.985	474275.809
25+010.000	3163403.025	474274.917
25+020.000	3163393.065	474274.025
25+030.000	3163383.105	474273.133
25+040.000	3163373.145	474272.241
25+050.000	3163363.184	474271.349
25+060.000	3163353.224	474270.457
25+070.000	3163343.264	474269.564
25+080.000	3163333.304	474268.672
25+090.000	3163323.344	474267.78
25+100.000	3163313.384	474266.888
25+110.000	3163303.424	474265.996
25+120.000	3163293.464	474265.104
25+130.000	3163283.503	474264.212
25+140.000	3163273.543	474263.32
25+150.000	3163263.583	474262.428
25+160.000	3163253.623	474261.536
25+170.000	3163243.663	474260.644
25+180.000	3163233.703	474259.752
25+190.000	3163223.743	474258.859
25+200.000	3163213.783	474257.967
25+210.000	3163203.822	474257.075
25+220.000	3163193.862	474256.183
25+230.000	3163183.902	474255.291
25+240.000	3163173.942	474254.399
25+250.000	3163163.982	474253.507
25+260.000	3163154.022	474252.615
25+270.000	3163144.062	474251.723
25+280.000	3163134.101	474250.831
25+290.000	3163124.141	474249.939
25+300.000	3163114.181	474249.047
25+310.000	3163104.221	474248.154
25+320.000	3163094.261	474247.262
25+330.000	3163084.301	474246.37
25+340.000	3163074.341	474245.478
25+350.000	3163064.381	474244.586
25+360.000	3163054.42	474243.694
25+370.000	3163044.46	474242.802
25+380.000	3163034.5	474241.91
25+390.000	3163024.54	474241.018
25+400.000	3163014.58	474240.126
25+410.000	3163004.62	474239.234
25+420.000	3162994.66	474238.342
25+430.000	3162984.7	474237.449
25+440.000	3162974.739	474236.557
25+450.000	3162964.779	474235.665
25+460.000	3162954.819	474234.773
25+470.000	3162944.859	474233.881

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	13 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/13

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
27+440.000	3160980.788	474088.499
27+450.000	3160970.789	474088.391
27+460.000	3160960.789	474088.293
27+470.000	3160950.79	474088.204
27+480.000	3160940.79	474088.126
27+490.000	3160930.79	474088.058
27+500.000	3160920.791	474088
27+510.000	3160910.791	474087.951
27+520.000	3160900.791	474087.913
27+530.000	3160890.791	474087.885
27+540.000	3160880.791	474087.867
27+550.000	3160870.791	474087.859
27+560.000	3160860.791	474087.86
27+570.000	3160850.791	474087.872
27+580.000	3160840.791	474087.894
27+590.000	3160830.791	474087.926
27+600.000	3160820.791	474087.968
27+610.000	3160810.791	474088.019
27+620.000	3160800.791	474088.081
27+630.000	3160790.792	474088.153
27+640.000	3160780.792	474088.235
27+650.000	3160770.792	474088.326
27+660.000	3160760.793	474088.428
27+670.000	3160750.793	474088.54
27+680.000	3160740.794	474088.662
27+690.000	3160730.795	474088.794
27+700.000	3160720.796	474088.935
27+710.000	3160710.797	474089.087
27+720.000	3160700.799	474089.249
27+730.000	3160690.8	474089.421
27+740.000	3160680.802	474089.602
27+750.000	3160670.804	474089.794
27+760.000	3160660.806	474089.996
27+770.000	3160650.808	474090.208
27+780.000	3160640.81	474090.43
27+790.000	3160630.813	474090.661
27+800.000	3160620.816	474090.903
27+810.000	3160610.819	474091.155
27+820.000	3160600.822	474091.417
27+830.000	3160590.826	474091.688
27+840.000	3160580.83	474091.97
27+850.000	3160570.834	474092.262
27+860.000	3160560.839	474092.564
27+870.000	3160550.844	474092.875
27+880.000	3160540.849	474093.197
27+890.000	3160530.854	474093.529
27+900.000	3160520.86	474093.871
27+910.000	3160510.867	474094.222
27+920.000	3160500.873	474094.584

Station	Northing	Easting
27+930.000	3160490.88	474094.956
27+940.000	3160480.887	474095.337
27+950.000	3160470.895	474095.729
27+960.000	3160460.903	474096.131
27+970.000	3160450.911	474096.542
27+980.000	3160440.92	474096.964
27+990.000	3160430.93	474097.396
28+000.000	3160420.939	474097.837
28+010.000	3160410.95	474098.289
28+020.000	3160400.96	474098.751
28+030.000	3160390.971	474099.222
28+040.000	3160380.983	474099.704
28+050.000	3160370.995	474100.195
28+060.000	3160361.008	474100.697
28+070.000	3160351.021	474101.208
28+080.000	3160341.034	474101.73
28+090.000	3160331.049	474102.262
28+100.000	3160321.063	474102.803
28+110.000	3160311.078	474103.355
28+120.000	3160301.094	474103.916
28+130.000	3160291.111	474104.488
28+140.000	3160281.128	474105.069
28+150.000	3160271.145	474105.66
28+160.000	3160261.163	474106.262
28+170.000	3160251.182	474106.873
28+180.000	3160241.201	474107.495
28+190.000	3160231.221	474108.126
28+200.000	3160221.242	474108.767
28+210.000	3160211.263	474109.419
28+220.000	3160201.285	474110.08
28+230.000	3160191.307	474110.751
28+240.000	3160181.331	474111.433
28+250.000	3160171.355	474112.124
28+260.000	3160161.379	474112.825
28+270.000	3160151.404	474113.536
28+280.000	3160141.43	474114.257
28+290.000	3160131.457	474114.988
28+300.000	3160121.485	474115.73
28+310.000	3160111.513	474116.481
28+320.000	3160101.542	474117.242
28+330.000	3160091.572	474118.013
28+340.000	3160081.602	474118.794
28+350.000	3160071.634	474119.585
28+360.000	3160061.666	474120.386
28+370.000	3160051.699	474121.196
28+380.000	3160041.732	474122.017
28+390.000	3160031.767	474122.848
28+400.000	3160021.802	474123.689
28+410.000	3160011.839	474124.54

Station	Northing	Easting
28+420.000	3160001.876	474125.4
28+430.000	3159991.914	474126.271
28+440.000	3159981.953	474127.152
28+450.000	3159971.992	474128.042
28+460.000	3159962.033	474128.943
28+470.000	3159952.075	474129.853
28+480.000	3159942.117	474130.774
28+490.000	3159932.16	474131.704
28+500.000	3159922.205	474132.645
28+510.000	3159912.25	474133.595
28+520.000	3159902.296	474134.555
28+530.000	3159892.343	474135.526
28+540.000	3159882.392	474136.506
28+550.000	3159872.441	474137.496
28+560.000	3159862.491	474138.496
28+570.000	3159852.542	474139.506
28+580.000	3159842.594	474140.526
28+590.000	3159832.647	474141.556
28+600.000	3159822.701	474142.596
28+610.000	3159812.757	474143.646
28+620.000	3159802.813	474144.706
28+630.000	3159792.87	474145.775
28+640.000	3159782.929	474146.855
28+650.000	3159772.988	474147.945
28+660.000	3159763.049	474149.044
28+670.000	3159753.111	474150.154
28+680.000	3159743.174	474151.273
28+690.000	3159733.238	474152.403
28+700.000	3159723.303	474153.542
28+710.000	3159713.369	474154.691
28+720.000	3159703.436	474155.85
28+730.000	3159693.505	474157.019
28+740.000	3159683.575	474158.198
28+750.000	3159673.646	474159.387
28+760.000	3159663.718	474160.586
28+770.000	3159653.791	474161.795
28+780.000	3159643.866	474163.014
28+790.000	3159633.941	474164.243
28+800.000	3159624.018	474165.481
28+810.000	3159614.097	474166.73
28+820.000	3159604.176	474167.988
28+830.000	3159594.257	474169.256
28+840.000	3159584.339	474170.535
28+850.000	3159574.422	474171.823
28+860.000	3159564.507	474173.121
28+870.000	3159554.593	474174.429
28+880.000	3159544.68	474175.747
28+890.000	3159534.769	474177.075
28+900.000	3159524.859	474178.413

Station	Northing	Easting
28+910.000	3159514.95	474179.76
28+920.000	3159505.042	474181.118
28+930.000	3159495.136	474182.485
28+940.000	3159485.232	474183.863
28+950.000	3159475.328	474185.25
28+960.000	3159465.426	474186.647
28+970.000	3159455.526	474188.054
28+980.000	3159445.627	474189.471
28+990.000	3159435.729	474190.898
29+000.000	3159425.833	474192.335
29+010.000	3159415.938	474193.782
29+020.000	3159406.045	474195.238
29+030.000	3159396.153	474196.705
29+040.000	3159386.262	474198.181
29+050.000	3159376.373	474199.667
29+060.000	3159366.486	474201.164
29+070.000	3159356.6	474202.67
29+080.000	3159346.716	474204.186
29+090.000	3159336.833	474205.711
29+100.000	3159326.951	474207.247
29+110.000	3159317.072	474208.793
29+120.000	3159307.193	474210.348
29+130.000	3159297.317	474211.913
29+140.000	3159287.441	474213.489
29+150.000	3159277.568	474215.074
29+160.000	3159267.696	474216.669
29+170.000	3159257.825	474218.273
29+180.000	3159247.957	474219.888
29+190.000	3159238.089	474221.513
29+200.000	3159228.224	474223.147
29+210.000	3159218.36	474224.791
29+220.000	3159208.498	474226.445
29+230.000	3159198.637	474228.109
29+240.000	3159188.778	474229.783
29+250.000	3159178.921	474231.467
29+260.000	3159169.066	474233.161
29+270.000	3159159.212	474234.864
29+280.000	3159149.36	474236.577
29+290.000	3159139.509	474238.301
29+300.000	3159129.66	474240.034
29+310.000	3159119.813	474241.776
29+320.000	3159109.968	474243.529
29+330.000	3159100.125	474245.292
29+340.000	3159090.283	474247.064
29+350.000	3159080.443	474248.846
29+360.000	3159070.605	474250.638
29+370.000	3159060.769	474252.44
29+380.000	3159050.934	474254.252
29+390.000	3159041.102	474256.073

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	14 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SCD/14

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
29+400.000	3159031.271	474257.905
29+410.000	3159021.442	474259.746
29+420.000	3159011.615	474261.597
29+430.000	3159001.789	474263.458
29+440.000	3158991.966	474265.329
29+450.000	3158982.144	474267.209
29+460.000	3158972.324	474269.099
29+470.000	3158962.507	474271
29+480.000	3158952.691	474272.91
29+490.000	3158942.877	474274.829
29+500.000	3158933.065	474276.759
29+510.000	3158923.255	474278.698
29+520.000	3158913.446	474280.648
29+530.000	3158903.64	474282.607
29+540.000	3158893.836	474284.576
29+550.000	3158884.034	474286.554
29+560.000	3158874.233	474288.543
29+570.000	3158864.435	474290.541
29+580.000	3158854.639	474292.549
29+590.000	3158844.844	474294.567
29+600.000	3158835.052	474296.594
29+610.000	3158825.262	474298.632
29+620.000	3158815.474	474300.679
29+630.000	3158805.687	474302.736
29+640.000	3158795.903	474304.803
29+650.000	3158786.121	474306.879
29+660.000	3158776.341	474308.966
29+670.000	3158766.564	474311.062
29+680.000	3158756.788	474313.168
29+690.000	3158747.014	474315.283
29+700.000	3158737.243	474317.409
29+710.000	3158727.473	474319.544
29+720.000	3158717.706	474321.689
29+730.000	3158707.941	474323.844
29+740.000	3158698.178	474326.008
29+750.000	3158688.417	474328.183
29+760.000	3158678.659	474330.367
29+770.000	3158668.902	474332.56
29+780.000	3158659.148	474334.764
29+790.000	3158649.396	474336.977
29+800.000	3158639.646	474339.2
29+810.000	3158629.899	474341.433
29+820.000	3158620.153	474343.676
29+830.000	3158610.41	474345.928
29+840.000	3158600.67	474348.19
29+850.000	3158590.931	474350.462
29+860.000	3158581.195	474352.743
29+870.000	3158571.461	474355.035
29+880.000	3158561.729	474357.336

Station	Northing	Easting
29+890.000	3158552	474359.646
29+900.000	3158542.273	474361.967
29+910.000	3158532.548	474364.297
29+920.000	3158522.826	474366.637
29+930.000	3158513.106	474368.986
29+940.000	3158503.388	474371.346
29+950.000	3158493.673	474373.715
29+960.000	3158483.96	474376.093
29+970.000	3158474.249	474378.482
29+980.000	3158464.541	474380.88
29+990.000	3158454.835	474383.288
30+000.000	3158445.132	474385.706
30+010.000	3158435.431	474388.133
30+020.000	3158425.732	474390.57
30+030.000	3158416.036	474393.017
30+040.000	3158406.343	474395.473
30+050.000	3158396.651	474397.939
30+060.000	3158386.963	474400.415
30+070.000	3158377.277	474402.9
30+080.000	3158367.593	474405.395
30+090.000	3158357.912	474407.9
30+100.000	3158348.233	474410.415
30+110.000	3158338.557	474412.939
30+120.000	3158328.883	474415.473
30+130.000	3158319.212	474418.016
30+140.000	3158309.543	474420.57
30+150.000	3158299.877	474423.132
30+160.000	3158290.214	474425.705
30+170.000	3158280.553	474428.287
30+180.000	3158270.895	474430.879
30+190.000	3158261.239	474433.48
30+200.000	3158251.586	474436.092
30+210.000	3158241.936	474438.712
30+220.000	3158232.288	474441.343
30+230.000	3158222.643	474443.983
30+240.000	3158213	474446.633
30+250.000	3158203.36	474449.292
30+260.000	3158193.723	474451.961
30+270.000	3158184.088	474454.64
30+280.000	3158174.456	474457.328
30+290.000	3158164.827	474460.026
30+300.000	3158155.201	474462.734
30+310.000	3158145.577	474465.451
30+320.000	3158135.956	474468.178
30+330.000	3158126.338	474470.914
30+340.000	3158116.722	474473.66
30+350.000	3158107.109	474476.416
30+360.000	3158097.499	474479.181
30+370.000	3158087.892	474481.956

Station	Northing	Easting
30+380.000	3158078.287	474484.74
30+390.000	3158068.686	474487.535
30+400.000	3158059.087	474490.338
30+410.000	3158049.491	474493.152
30+420.000	3158039.897	474495.974
30+430.000	3158030.307	474498.807
30+440.000	3158020.719	474501.649
30+450.000	3158011.134	474504.501
30+460.000	3158001.553	474507.362
30+470.000	3157991.973	474510.233
30+480.000	3157982.397	474513.113
30+490.000	3157972.824	474516.003
30+500.000	3157963.254	474518.903
30+510.000	3157953.686	474521.812
30+520.000	3157944.122	474524.73
30+530.000	3157934.56	474527.659
30+540.000	3157925.001	474530.596
30+550.000	3157915.445	474533.544
30+560.000	3157905.892	474536.501
30+570.000	3157896.343	474539.467
30+580.000	3157886.796	474542.443
30+590.000	3157877.252	474545.429
30+600.000	3157867.711	474548.424
30+610.000	3157858.173	474551.428
30+620.000	3157848.638	474554.443
30+630.000	3157839.106	474557.466
30+640.000	3157829.577	474560.499
30+650.000	3157820.051	474563.542
30+660.000	3157810.529	474566.595
30+670.000	3157801.009	474569.656
30+680.000	3157791.492	474572.728
30+690.000	3157781.979	474575.808
30+700.000	3157772.468	474578.899
30+710.000	3157762.961	474581.999
30+720.000	3157753.456	474585.108
30+730.000	3157743.955	474588.227
30+740.000	3157734.457	474591.355
30+750.000	3157724.962	474594.493
30+760.000	3157715.47	474597.641
30+770.000	3157705.982	474600.797
30+780.000	3157696.496	474603.964
30+790.000	3157687.014	474607.14
30+800.000	3157677.535	474610.325
30+810.000	3157668.059	474613.52
30+820.000	3157658.586	474616.724
30+830.000	3157649.117	474619.938
30+840.000	3157639.65	474623.161
30+850.000	3157630.187	474626.393
30+860.000	3157620.727	474629.636

Station	Northing	Easting
30+870.000	3157611.271	474632.887
30+880.000	3157601.817	474636.148
30+890.000	3157592.367	474639.419
30+900.000	3157582.921	474642.699
30+910.000	3157573.477	474645.988
30+920.000	3157564.037	474649.287
30+930.000	3157554.6	474652.595
30+940.000	3157545.166	474655.913
30+950.000	3157535.736	474659.24
30+960.000	3157526.309	474662.576
30+970.000	3157516.885	474665.922
30+980.000	3157507.465	474669.278
30+990.000	3157498.048	474672.643
31+000.000	3157488.635	474676.017
31+010.000	3157479.225	474679.401
31+020.000	3157469.818	474682.794
31+030.000	3157460.415	474686.196
31+040.000	3157451.015	474689.608
31+050.000	3157441.618	474693.029
31+060.000	3157432.225	474696.46
31+070.000	3157422.835	474699.9
31+080.000	3157413.449	474703.349
31+090.000	3157404.066	474706.808
31+100.000	3157394.687	474710.276
31+110.000	3157385.311	474713.754
31+120.000	3157375.939	474717.241
31+130.000	3157366.57	474720.737
31+140.000	3157357.204	474724.243
31+150.000	3157347.843	474727.758
31+160.000	3157338.484	474731.282
31+170.000	3157329.129	474734.816
31+180.000	3157319.778	474738.359
31+190.000	3157310.43	474741.912
31+200.000	3157301.086	474745.474
31+210.000	3157291.746	474749.045
31+220.000	3157282.409	474752.625
31+230.000	3157273.075	474756.215
31+240.000	3157263.745	474759.814
31+250.000	3157254.419	474763.423
31+260.000	3157245.097	474767.04
31+270.000	3157235.778	474770.668
31+280.000	3157226.462	474774.304
31+290.000	3157217.15	474777.95
31+300.000	3157207.842	474781.605
31+310.000	3157198.538	474785.269
31+320.000	3157189.237	474788.943
31+330.000	3157179.94	474792.626
31+340.000	3157170.647	474796.318
31+350.000	3157161.357	474800.02

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	15 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
Z1/KA/NK/SCD/15

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
31+360.000	3157152.071	474803.731
31+370.000	3157142.789	474807.451
31+380.000	3157133.51	474811.18
31+390.000	3157124.235	474814.919
31+400.000	3157114.964	474818.667
31+410.000	3157105.697	474822.424
31+420.000	3157096.433	474826.191
31+430.000	3157087.174	474829.966
31+440.000	3157077.918	474833.752
31+450.000	3157068.665	474837.546
31+460.000	3157059.417	474841.349
31+470.000	3157050.172	474845.162
31+480.000	3157040.932	474848.984
31+490.000	3157031.695	474852.815
31+500.000	3157022.462	474856.656
31+510.000	3157013.232	474860.506
31+520.000	3157004.007	474864.365
31+530.000	3156994.785	474868.233
31+540.000	3156985.568	474872.11
31+550.000	3156976.354	474875.997
31+560.000	3156967.144	474879.893
31+570.000	3156957.938	474883.798
31+580.000	3156948.736	474887.712
31+590.000	3156939.538	474891.635
31+600.000	3156930.343	474895.568
31+610.000	3156921.153	474899.51
31+620.000	3156911.967	474903.461
31+630.000	3156902.784	474907.421
31+640.000	3156893.606	474911.39
31+650.000	3156884.431	474915.369
31+660.000	3156875.261	474919.357
31+670.000	3156866.094	474923.354
31+680.000	3156856.932	474927.36
31+690.000	3156847.773	474931.375
31+700.000	3156838.619	474935.399
31+710.000	3156829.468	474939.433
31+720.000	3156820.322	474943.475
31+730.000	3156811.18	474947.527
31+740.000	3156802.041	474951.588
31+750.000	3156792.907	474955.658
31+760.000	3156783.777	474959.738
31+770.000	3156774.651	474963.826
31+780.000	3156765.529	474967.923
31+790.000	3156756.411	474972.03
31+800.000	3156747.297	474976.146
31+810.000	3156738.188	474980.271
31+820.000	3156729.082	474984.405
31+830.000	3156719.981	474988.548
31+840.000	3156710.883	474992.7

Station	Northing	Easting
31+850.000	3156701.79	474996.861
31+860.000	3156692.701	475001.031
31+870.000	3156683.617	475005.211
31+880.000	3156674.536	475009.399
31+890.000	3156665.46	475013.597
31+900.000	3156656.388	475017.803
31+910.000	3156647.318	475022.015
31+920.000	3156638.248	475026.227
31+930.000	3156629.178	475030.439
31+940.000	3156620.109	475034.651
31+950.000	3156611.039	475038.863
31+960.000	3156601.969	475043.075
31+970.000	3156592.9	475047.287
31+980.000	3156583.83	475051.499
31+990.000	3156574.76	475055.71
32+000.000	3156565.69	475059.922
32+010.000	3156556.621	475064.134
32+020.000	3156547.551	475068.346
32+030.000	3156538.481	475072.558
32+040.000	3156529.411	475076.77
32+050.000	3156520.342	475080.982
32+060.000	3156511.272	475085.194
32+070.000	3156502.202	475089.406
32+080.000	3156493.133	475093.617
32+090.000	3156484.063	475097.829
32+100.000	3156474.993	475102.041
32+110.000	3156465.923	475106.253
32+120.000	3156456.854	475110.465
32+130.000	3156447.784	475114.677
32+140.000	3156438.714	475118.889
32+150.000	3156429.644	475123.101
32+160.000	3156420.575	475127.313
32+170.000	3156411.505	475131.524
32+180.000	3156402.435	475135.736
32+190.000	3156393.365	475139.948
32+200.000	3156384.296	475144.16
32+210.000	3156375.226	475148.372
32+220.000	3156366.156	475152.584
32+230.000	3156357.087	475156.796
32+240.000	3156348.017	475161.008
32+250.000	3156338.947	475165.22
32+260.000	3156329.877	475169.431
32+270.000	3156320.808	475173.643
32+280.000	3156311.738	475177.855
32+290.000	3156302.668	475182.067
32+300.000	3156293.598	475186.279
32+310.000	3156284.529	475190.491
32+320.000	3156275.459	475194.703
32+330.000	3156266.389	475198.915

Station	Northing	Easting
32+340.000	3156257.32	475203.127
32+350.000	3156248.25	475207.338
32+360.000	3156239.18	475211.55
32+370.000	3156230.11	475215.762
32+380.000	3156221.041	475219.974
32+390.000	3156211.971	475224.186
32+400.000	3156202.901	475228.398
32+410.000	3156193.831	475232.61
32+420.000	3156184.762	475236.822
32+430.000	3156175.692	475241.034
32+440.000	3156166.622	475245.245
32+450.000	3156157.553	475249.457
32+460.000	3156148.483	475253.669
32+470.000	3156139.413	475257.881
32+480.000	3156130.343	475262.093
32+490.000	3156121.274	475266.305
32+500.000	3156112.204	475270.517
32+510.000	3156103.134	475274.729
32+520.000	3156094.064	475278.941
32+530.000	3156084.995	475283.152
32+540.000	3156075.925	475287.364
32+550.000	3156066.855	475291.576
32+560.000	3156057.786	475295.788
32+570.000	3156048.716	475300
32+580.000	3156039.646	475304.212
32+590.000	3156030.576	475308.424
32+600.000	3156021.507	475312.636
32+610.000	3156012.437	475316.848
32+620.000	3156003.367	475321.059
32+630.000	3155994.297	475325.271
32+640.000	3155985.228	475329.483
32+650.000	3155976.158	475333.695
32+660.000	3155967.088	475337.907
32+670.000	3155958.018	475342.119
32+680.000	3155948.949	475346.331
32+690.000	3155939.879	475350.543
32+700.000	3155930.809	475354.755
32+710.000	3155921.74	475358.966
32+720.000	3155912.67	475363.178
32+730.000	3155903.6	475367.39
32+740.000	3155894.53	475371.602
32+750.000	3155885.461	475375.814
32+760.000	3155876.391	475380.026
32+770.000	3155867.321	475384.238
32+780.000	3155858.251	475388.45
32+790.000	3155849.182	475392.662
32+800.000	3155840.112	475396.873
32+810.000	3155831.042	475401.085
32+820.000	3155821.973	475405.297

Station	Northing	Easting
32+830.000	3155812.903	475409.509
32+840.000	3155803.833	475413.721
32+850.000	3155794.763	475417.933
32+860.000	3155785.694	475422.145
32+870.000	3155776.624	475426.357
32+880.000	3155767.554	475430.569
32+890.000	3155758.484	475434.781
32+900.000	3155749.415	475438.992
32+910.000	3155740.345	475443.204
32+920.000	3155731.275	475447.416
32+930.000	3155722.206	475451.628
32+940.000	3155713.136	475455.84
32+950.000	3155704.066	475460.052
32+960.000	3155694.996	475464.264
32+970.000	3155685.927	475468.476
32+980.000	3155676.857	475472.688
32+990.000	3155667.787	475476.899
33+000.000	3155658.717	475481.111
33+010.000	3155649.648	475485.323
33+020.000	3155640.578	475489.535
33+030.000	3155631.508	475493.747
33+040.000	3155622.439	475497.959
33+050.000	3155613.369	475502.171
33+060.000	3155604.299	475506.383
33+070.000	3155595.229	475510.595
33+080.000	3155586.16	475514.806
33+090.000	3155577.09	475519.018
33+100.000	3155568.02	475523.23
33+110.000	3155558.95	475527.442
33+120.000	3155549.881	475531.654
33+130.000	3155540.811	475535.866
33+140.000	3155531.741	475540.078
33+150.000	3155522.671	475544.29
33+160.000	3155513.602	475548.502
33+170.000	3155504.532	475552.713
33+180.000	3155495.462	475556.925
33+190.000	3155486.393	475561.137
33+200.000	3155477.323	475565.349
33+210.000	3155468.253	475569.561
33+220.000	3155459.183	475573.773
33+230.000	3155450.114	475577.985
33+240.000	3155441.044	475582.197
33+250.000	3155431.974	475586.409
33+260.000	3155422.904	475590.62
33+270.000	3155413.835	475594.832
33+280.000	3155404.765	475599.044
33+290.000	3155395.695	475603.256
33+300.000	3155386.626	475607.468
33+310.000	3155377.556	475611.68

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
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3rd Floor, Fine Square Plaza,
I-8 Markaz, Islamabad
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	16 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/16

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
33+320.000	3155368.486	475615.892
33+330.000	3155359.416	475620.104
33+340.000	3155350.347	475624.316
33+350.000	3155341.277	475628.527
33+360.000	3155332.207	475632.739
33+370.000	3155323.137	475636.951
33+380.000	3155314.068	475641.163
33+390.000	3155304.998	475645.375
33+400.000	3155295.928	475649.587
33+410.000	3155286.859	475653.799
33+420.000	3155277.789	475658.011
33+430.000	3155268.719	475662.223
33+440.000	3155259.649	475666.434
33+450.000	3155250.58	475670.646
33+460.000	3155241.51	475674.858
33+470.000	3155232.44	475679.07
33+480.000	3155223.37	475683.282
33+490.000	3155214.301	475687.494
33+500.000	3155205.231	475691.706
33+510.000	3155196.161	475695.918
33+520.000	3155187.092	475700.13
33+530.000	3155178.022	475704.341
33+540.000	3155168.952	475708.553
33+550.000	3155159.882	475712.765
33+560.000	3155150.813	475716.977
33+570.000	3155141.743	475721.189
33+580.000	3155132.673	475725.401
33+590.000	3155123.603	475729.613
33+600.000	3155114.534	475733.825
33+610.000	3155105.464	475738.037
33+620.000	3155096.394	475742.248
33+630.000	3155087.325	475746.46
33+640.000	3155078.255	475750.672
33+650.000	3155069.185	475754.884
33+660.000	3155060.115	475759.096
33+670.000	3155051.046	475763.308
33+680.000	3155041.976	475767.52
33+690.000	3155032.906	475771.732
33+700.000	3155023.836	475775.944
33+710.000	3155014.767	475780.155
33+720.000	3155005.697	475784.367
33+730.000	3154996.627	475788.579
33+740.000	3154987.557	475792.791
33+750.000	3154978.488	475797.003
33+760.000	3154969.418	475801.215
33+770.000	3154960.348	475805.427
33+780.000	3154951.279	475809.639
33+790.000	3154942.209	475813.851
33+800.000	3154933.139	475818.062

Station	Northing	Easting
33+810.000	3154924.069	475822.274
33+820.000	3154915	475826.486
33+830.000	3154905.93	475830.698
33+840.000	3154896.86	475834.91
33+850.000	3154887.79	475839.122
33+860.000	3154878.721	475843.334
33+870.000	3154869.651	475847.546
33+880.000	3154860.581	475851.758
33+890.000	3154851.512	475855.969
33+900.000	3154842.442	475860.181
33+910.000	3154833.372	475864.393
33+920.000	3154824.302	475868.605
33+930.000	3154815.233	475872.817
33+940.000	3154806.163	475877.029
33+950.000	3154797.093	475881.241
33+960.000	3154788.023	475885.453
33+970.000	3154778.954	475889.665
33+980.000	3154769.884	475893.876
33+990.000	3154760.814	475898.088
34+000.000	3154751.745	475902.3
34+010.000	3154742.675	475906.512
34+020.000	3154733.605	475910.724
34+030.000	3154724.535	475914.936
34+040.000	3154715.466	475919.148
34+050.000	3154706.396	475923.36
34+060.000	3154697.326	475927.572
34+070.000	3154688.256	475931.783
34+080.000	3154679.187	475935.995
34+090.000	3154670.117	475940.207
34+100.000	3154661.047	475944.419
34+110.000	3154651.978	475948.631
34+120.000	3154642.908	475952.843
34+130.000	3154633.838	475957.055
34+140.000	3154624.768	475961.267
34+150.000	3154615.699	475965.479
34+160.000	3154606.629	475969.69
34+170.000	3154597.559	475973.902
34+180.000	3154588.489	475978.114
34+190.000	3154579.42	475982.326
34+200.000	3154570.35	475986.538
34+210.000	3154561.28	475990.75
34+220.000	3154552.21	475994.962
34+230.000	3154543.141	475999.174
34+240.000	3154534.071	476003.386
34+250.000	3154525.001	476007.597
34+260.000	3154515.932	476011.809
34+270.000	3154506.862	476016.021
34+280.000	3154497.792	476020.233
34+290.000	3154488.722	476024.445

Station	Northing	Easting
34+300.000	3154479.653	476028.657
34+310.000	3154470.583	476032.869
34+320.000	3154461.513	476037.081
34+330.000	3154452.443	476041.293
34+340.000	3154443.374	476045.504
34+350.000	3154434.304	476049.716
34+360.000	3154425.234	476053.928
34+370.000	3154416.165	476058.14
34+380.000	3154407.095	476062.352
34+390.000	3154398.025	476066.564
34+400.000	3154388.955	476070.776
34+410.000	3154379.886	476074.988
34+420.000	3154370.816	476079.2
34+430.000	3154361.746	476083.412
34+440.000	3154352.676	476087.623
34+450.000	3154343.607	476091.835
34+460.000	3154334.537	476096.047
34+470.000	3154325.467	476100.259
34+480.000	3154316.398	476104.471
34+490.000	3154307.328	476108.683
34+500.000	3154298.258	476112.895
34+510.000	3154289.188	476117.107
34+520.000	3154280.119	476121.319
34+530.000	3154271.049	476125.53
34+540.000	3154261.979	476129.742
34+550.000	3154252.909	476133.954
34+560.000	3154243.84	476138.166
34+570.000	3154234.77	476142.378
34+580.000	3154225.7	476146.59
34+590.000	3154216.631	476150.802
34+600.000	3154207.561	476155.014
34+610.000	3154198.491	476159.226
34+620.000	3154189.421	476163.437
34+630.000	3154180.352	476167.649
34+640.000	3154171.282	476171.861
34+650.000	3154162.212	476176.073
34+660.000	3154153.142	476180.285
34+670.000	3154144.073	476184.497
34+680.000	3154135.003	476188.709
34+690.000	3154125.933	476192.921
34+700.000	3154116.863	476197.133
34+710.000	3154107.794	476201.344
34+720.000	3154098.724	476205.556
34+730.000	3154089.654	476209.768
34+740.000	3154080.585	476213.98
34+750.000	3154071.515	476218.192
34+760.000	3154062.445	476222.404
34+770.000	3154053.375	476226.616
34+780.000	3154044.306	476230.828

Station	Northing	Easting
34+790.000	3154035.236	476235.04
34+800.000	3154026.166	476239.251
34+810.000	3154017.096	476243.463
34+820.000	3154008.027	476247.675
34+830.000	3153998.957	476251.887
34+840.000	3153989.887	476256.099
34+850.000	3153980.818	476260.311
34+860.000	3153971.748	476264.523
34+870.000	3153962.678	476268.735
34+880.000	3153953.608	476272.947
34+890.000	3153944.539	476277.158
34+900.000	3153935.469	476281.37
34+910.000	3153926.399	476285.582
34+920.000	3153917.329	476289.794
34+930.000	3153908.26	476294.006
34+940.000	3153899.19	476298.218
34+950.000	3153890.12	476302.43
34+960.000	3153881.051	476306.642
34+970.000	3153871.981	476310.854
34+980.000	3153862.911	476315.065
34+990.000	3153853.841	476319.277
35+000.000	3153844.772	476323.489
35+010.000	3153835.702	476327.701
35+020.000	3153826.632	476331.913
35+030.000	3153817.562	476336.125
35+040.000	3153808.493	476340.337
35+050.000	3153799.423	476344.549
35+060.000	3153790.353	476348.761
35+070.000	3153781.284	476352.972
35+080.000	3153772.214	476357.184
35+090.000	3153763.144	476361.396
35+100.000	3153754.074	476365.608
35+110.000	3153745.005	476369.82
35+120.000	3153735.935	476374.032
35+130.000	3153726.865	476378.244
35+140.000	3153717.795	476382.456
35+150.000	3153708.726	476386.668
35+160.000	3153699.656	476390.879
35+170.000	3153690.586	476395.091
35+180.000	3153681.516	476399.303
35+190.000	3153672.447	476403.515
35+200.000	3153663.377	476407.727
35+210.000	3153654.307	476411.939
35+220.000	3153645.238	476416.151
35+230.000	3153636.168	476420.363
35+240.000	3153627.098	476424.575
35+250.000	3153618.028	476428.786
35+260.000	3153608.959	476432.998
35+270.000	3153599.889	476437.21

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEBRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	17 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/17

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
35+280.000	3153590.819	476441.422
35+290.000	3153581.749	476445.634
35+300.000	3153572.68	476449.846
35+310.000	3153563.61	476454.058
35+320.000	3153554.54	476458.27
35+330.000	3153545.471	476462.482
35+340.000	3153536.401	476466.693
35+350.000	3153527.331	476470.905
35+360.000	3153518.261	476475.117
35+370.000	3153509.192	476479.329
35+380.000	3153500.122	476483.541
35+390.000	3153491.052	476487.753
35+400.000	3153481.982	476491.965
35+410.000	3153472.913	476496.177
35+420.000	3153463.843	476500.389
35+430.000	3153454.773	476504.6
35+440.000	3153445.704	476508.812
35+450.000	3153436.634	476513.024
35+460.000	3153427.564	476517.236
35+470.000	3153418.494	476521.448
35+480.000	3153409.425	476525.66
35+490.000	3153400.355	476529.872
35+500.000	3153391.285	476534.084
35+510.000	3153382.215	476538.296
35+520.000	3153373.146	476542.507
35+530.000	3153364.076	476546.719
35+540.000	3153355.006	476550.931
35+550.000	3153345.937	476555.143
35+560.000	3153336.867	476559.355
35+570.000	3153327.797	476563.567
35+580.000	3153318.727	476567.779
35+590.000	3153309.658	476571.991
35+600.000	3153300.588	476576.203
35+610.000	3153291.518	476580.414
35+620.000	3153282.448	476584.626
35+630.000	3153273.379	476588.838
35+640.000	3153264.309	476593.05
35+650.000	3153255.239	476597.262
35+660.000	3153246.169	476601.474
35+670.000	3153237.1	476605.686
35+680.000	3153228.03	476609.898
35+690.000	3153218.96	476614.11
35+700.000	3153209.89	476618.321
35+710.000	3153200.819	476622.53
35+720.000	3153191.747	476626.737
35+730.000	3153182.674	476630.942
35+740.000	3153173.6	476635.144
35+750.000	3153164.525	476639.344
35+760.000	3153155.449	476643.542

Station	Northing	Easting
35+770.000	3153146.371	476647.738
35+780.000	3153137.293	476651.931
35+790.000	3153128.214	476656.122
35+800.000	3153119.133	476660.311
35+810.000	3153110.052	476664.497
35+820.000	3153100.969	476668.682
35+830.000	3153091.886	476672.864
35+840.000	3153082.801	476677.043
35+850.000	3153073.716	476681.221
35+860.000	3153064.629	476685.396
35+870.000	3153055.541	476689.569
35+880.000	3153046.452	476693.74
35+890.000	3153037.362	476697.908
35+900.000	3153028.272	476702.074
35+910.000	3153019.18	476706.238
35+920.000	3153010.087	476710.399
35+930.000	3153000.993	476714.559
35+940.000	3152991.898	476718.716
35+950.000	3152982.802	476722.87
35+960.000	3152973.705	476727.023
35+970.000	3152964.606	476731.173
35+980.000	3152955.507	476735.321
35+990.000	3152946.407	476739.466
36+000.000	3152937.306	476743.61
36+010.000	3152928.204	476747.751
36+020.000	3152919.1	476751.89
36+030.000	3152909.996	476756.026
36+040.000	3152900.89	476760.16
36+050.000	3152891.784	476764.292
36+060.000	3152882.677	476768.422
36+070.000	3152873.568	476772.549
36+080.000	3152864.459	476776.674
36+090.000	3152855.348	476780.797
36+100.000	3152846.236	476784.918
36+110.000	3152837.124	476789.036
36+120.000	3152828.01	476793.152
36+130.000	3152818.896	476797.266
36+140.000	3152809.78	476801.377
36+150.000	3152800.663	476805.486
36+160.000	3152791.545	476809.593
36+170.000	3152782.427	476813.698
36+180.000	3152773.307	476817.8
36+190.000	3152764.186	476821.9
36+200.000	3152755.064	476825.998
36+210.000	3152745.941	476830.094
36+220.000	3152736.817	476834.187
36+230.000	3152727.692	476838.278
36+240.000	3152718.566	476842.366
36+250.000	3152709.439	476846.453

Station	Northing	Easting
36+260.000	3152700.311	476850.537
36+270.000	3152691.182	476854.619
36+280.000	3152682.052	476858.698
36+290.000	3152672.921	476862.776
36+300.000	3152663.789	476866.85
36+310.000	3152654.656	476870.923
36+320.000	3152645.522	476874.994
36+330.000	3152636.387	476879.062
36+340.000	3152627.251	476883.127
36+350.000	3152618.114	476887.191
36+360.000	3152608.976	476891.252
36+370.000	3152599.836	476895.311
36+380.000	3152590.696	476899.368
36+390.000	3152581.555	476903.422
36+400.000	3152572.413	476907.474
36+410.000	3152563.269	476911.524
36+420.000	3152554.125	476915.572
36+430.000	3152544.98	476919.617
36+440.000	3152535.834	476923.66
36+450.000	3152526.686	476927.701
36+460.000	3152517.538	476931.739
36+470.000	3152508.389	476935.777
36+480.000	3152499.241	476939.814
36+490.000	3152490.092	476943.852
36+500.000	3152480.943	476947.889
36+510.000	3152471.795	476951.927
36+520.000	3152462.646	476955.964
36+530.000	3152453.497	476960.002
36+540.000	3152444.349	476964.039
36+550.000	3152435.2	476968.077
36+560.000	3152426.051	476972.114
36+570.000	3152416.903	476976.152
36+580.000	3152407.754	476980.189
36+590.000	3152398.605	476984.227
36+600.000	3152389.457	476988.265
36+610.000	3152380.308	476992.302
36+620.000	3152371.159	476996.34
36+630.000	3152362.01	477000.377
36+640.000	3152352.862	477004.415
36+650.000	3152343.713	477008.452
36+660.000	3152334.564	477012.49
36+670.000	3152325.416	477016.527
36+680.000	3152316.267	477020.565
36+690.000	3152307.118	477024.602
36+700.000	3152297.97	477028.64
36+710.000	3152288.821	477032.677
36+720.000	3152279.672	477036.715
36+730.000	3152270.524	477040.752
36+740.000	3152261.375	477044.79

Station	Northing	Easting
36+750.000	3152252.226	477048.827
36+760.000	3152243.078	477052.865
36+770.000	3152233.929	477056.902
36+780.000	3152224.78	477060.94
36+790.000	3152215.632	477064.978
36+800.000	3152206.483	477069.015
36+810.000	3152197.334	477073.053
36+820.000	3152188.186	477077.09
36+830.000	3152179.037	477081.128
36+840.000	3152169.888	477085.165
36+850.000	3152160.739	477089.203
36+860.000	3152151.591	477093.24
36+870.000	3152142.442	477097.278
36+880.000	3152133.293	477101.315
36+890.000	3152124.145	477105.353
36+900.000	3152114.996	477109.39
36+910.000	3152105.847	477113.428
36+920.000	3152096.699	477117.465
36+930.000	3152087.55	477121.503
36+940.000	3152078.401	477125.54
36+950.000	3152069.253	477129.578
36+960.000	3152060.104	477133.615
36+970.000	3152050.955	477137.653
36+980.000	3152041.807	477141.69
36+990.000	3152032.658	477145.728
37+000.000	3152023.509	477149.766
37+010.000	3152014.361	477153.803
37+020.000	3152005.212	477157.841
37+030.000	3151996.063	477161.878
37+040.000	3151986.914	477165.916
37+050.000	3151977.766	477169.953
37+060.000	3151968.617	477173.991
37+070.000	3151959.468	477178.028
37+080.000	3151950.32	477182.066
37+090.000	3151941.171	477186.103
37+100.000	3151932.022	477190.141
37+110.000	3151922.874	477194.178
37+120.000	3151913.725	477198.216
37+130.000	3151904.576	477202.253
37+140.000	3151895.428	477206.291
37+150.000	3151886.279	477210.328
37+160.000	3151877.13	477214.366
37+170.000	3151867.982	477218.403
37+180.000	3151858.833	477222.441
37+190.000	3151849.684	477226.479
37+200.000	3151840.536	477230.516
37+210.000	3151831.387	477234.554
37+220.000	3151822.238	477238.591
37+230.000	3151813.09	477242.629

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEBRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	18 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/18

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
37+240.000	3151803.941	477246.666
37+250.000	3151794.792	477250.704
37+260.000	3151785.643	477254.741
37+270.000	3151776.495	477258.779
37+280.000	3151767.346	477262.816
37+290.000	3151758.197	477266.854
37+300.000	3151749.049	477270.891
37+310.000	3151739.9	477274.929
37+320.000	3151730.751	477278.966
37+330.000	3151721.603	477283.004
37+340.000	3151712.454	477287.041
37+350.000	3151703.305	477291.079
37+360.000	3151694.157	477295.116
37+370.000	3151685.008	477299.154
37+380.000	3151675.859	477303.192
37+390.000	3151666.711	477307.229
37+400.000	3151657.562	477311.267
37+410.000	3151648.413	477315.304
37+420.000	3151639.265	477319.342
37+430.000	3151630.116	477323.379
37+440.000	3151620.967	477327.417
37+450.000	3151611.819	477331.454
37+460.000	3151602.67	477335.492
37+470.000	3151593.521	477339.529
37+480.000	3151584.372	477343.567
37+490.000	3151575.224	477347.604
37+500.000	3151566.075	477351.642
37+510.000	3151556.926	477355.679
37+520.000	3151547.778	477359.717
37+530.000	3151538.629	477363.754
37+540.000	3151529.48	477367.792
37+550.000	3151520.332	477371.829
37+560.000	3151511.183	477375.867
37+570.000	3151502.034	477379.904
37+580.000	3151492.886	477383.942
37+590.000	3151483.737	477387.98
37+600.000	3151474.588	477392.017
37+610.000	3151465.44	477396.055
37+620.000	3151456.291	477400.092
37+630.000	3151447.142	477404.13
37+640.000	3151437.994	477408.167
37+650.000	3151428.845	477412.205
37+660.000	3151419.696	477416.242
37+670.000	3151410.548	477420.28
37+680.000	3151401.399	477424.317
37+690.000	3151392.25	477428.355
37+700.000	3151383.101	477432.392
37+710.000	3151373.953	477436.43
37+720.000	3151364.804	477440.467

Station	Northing	Easting
37+730.000	3151355.655	477444.505
37+740.000	3151346.507	477448.542
37+750.000	3151337.358	477452.58
37+760.000	3151328.209	477456.617
37+770.000	3151319.061	477460.655
37+780.000	3151309.912	477464.693
37+790.000	3151300.763	477468.73
37+800.000	3151291.615	477472.768
37+810.000	3151282.466	477476.805
37+820.000	3151273.317	477480.843
37+830.000	3151264.169	477484.88
37+840.000	3151255.02	477488.918
37+850.000	3151245.871	477492.955
37+860.000	3151236.723	477496.993
37+870.000	3151227.574	477501.03
37+880.000	3151218.425	477505.068
37+890.000	3151209.277	477509.105
37+900.000	3151200.128	477513.143
37+910.000	3151190.979	477517.18
37+920.000	3151181.83	477521.218
37+930.000	3151172.682	477525.255
37+940.000	3151163.533	477529.293
37+950.000	3151154.384	477533.33
37+960.000	3151145.236	477537.368
37+970.000	3151136.087	477541.406
37+980.000	3151126.938	477545.443
37+990.000	3151117.79	477549.481
38+000.000	3151108.641	477553.518
38+010.000	3151099.492	477557.556
38+020.000	3151090.344	477561.593
38+030.000	3151081.195	477565.631
38+040.000	3151072.046	477569.668
38+050.000	3151062.898	477573.706
38+060.000	3151053.749	477577.743
38+070.000	3151044.6	477581.781
38+080.000	3151035.452	477585.818
38+090.000	3151026.303	477589.856
38+100.000	3151017.154	477593.893
38+110.000	3151008.005	477597.931
38+120.000	3150998.857	477601.968
38+130.000	3150989.708	477606.006
38+140.000	3150980.559	477610.043
38+150.000	3150971.411	477614.081
38+160.000	3150962.262	477618.119
38+170.000	3150953.113	477622.156
38+180.000	3150943.965	477626.194
38+190.000	3150934.816	477630.231
38+200.000	3150925.667	477634.269
38+210.000	3150916.519	477638.306

Station	Northing	Easting
38+220.000	3150907.37	477642.344
38+230.000	3150898.221	477646.381
38+240.000	3150889.073	477650.419
38+250.000	3150879.924	477654.456
38+260.000	3150870.775	477658.494
38+270.000	3150861.627	477662.531
38+280.000	3150852.478	477666.569
38+290.000	3150843.329	477670.606
38+300.000	3150834.181	477674.644
38+310.000	3150825.032	477678.681
38+320.000	3150815.883	477682.719
38+330.000	3150806.734	477686.756
38+340.000	3150797.586	477690.794
38+350.000	3150788.437	477694.831
38+360.000	3150779.288	477698.869
38+370.000	3150770.14	477702.907
38+380.000	3150760.991	477706.944
38+390.000	3150751.842	477710.982
38+400.000	3150742.694	477715.019
38+410.000	3150733.545	477719.057
38+420.000	3150724.396	477723.094
38+430.000	3150715.248	477727.132
38+440.000	3150706.099	477731.169
38+450.000	3150696.95	477735.207
38+460.000	3150687.802	477739.244
38+470.000	3150678.653	477743.282
38+480.000	3150669.504	477747.319
38+490.000	3150660.356	477751.357
38+500.000	3150651.207	477755.394
38+510.000	3150642.058	477759.432
38+520.000	3150632.91	477763.469
38+530.000	3150623.761	477767.507
38+540.000	3150614.612	477771.544
38+550.000	3150605.463	477775.582
38+560.000	3150596.315	477779.62
38+570.000	3150587.166	477783.657
38+580.000	3150578.017	477787.695
38+590.000	3150568.869	477791.732
38+600.000	3150559.72	477795.77
38+610.000	3150550.571	477799.807
38+620.000	3150541.423	477803.845
38+630.000	3150532.274	477807.882
38+640.000	3150523.126	477811.92
38+650.000	3150513.98	477815.966
38+660.000	3150504.84	477820.021
38+670.000	3150495.703	477824.087
38+680.000	3150486.572	477828.163
38+690.000	3150477.445	477832.249
38+700.000	3150468.322	477836.345

Station	Northing	Easting
38+710.000	3150459.204	477840.451
38+720.000	3150450.091	477844.568
38+730.000	3150440.982	477848.694
38+740.000	3150431.877	477852.831
38+750.000	3150422.778	477856.977
38+760.000	3150413.683	477861.134
38+770.000	3150404.592	477865.301
38+780.000	3150395.506	477869.478
38+790.000	3150386.425	477873.666
38+800.000	3150377.349	477877.863
38+810.000	3150368.277	477882.07
38+820.000	3150359.21	477886.288
38+830.000	3150350.147	477890.515
38+840.000	3150341.089	477894.753
38+850.000	3150332.036	477899
38+860.000	3150322.988	477903.258
38+870.000	3150313.944	477907.526
38+880.000	3150304.906	477911.803
38+890.000	3150295.872	477916.091
38+900.000	3150286.842	477920.389
38+910.000	3150277.818	477924.697
38+920.000	3150268.798	477929.015
38+930.000	3150259.783	477933.343
38+940.000	3150250.773	477937.681
38+950.000	3150241.768	477942.029
38+960.000	3150232.767	477946.387
38+970.000	3150223.772	477950.755
38+980.000	3150214.781	477955.133
38+990.000	3150205.795	477959.52
39+000.000	3150196.814	477963.918
39+010.000	3150187.838	477968.326
39+020.000	3150178.867	477972.744
39+030.000	3150169.9	477977.172
39+040.000	3150160.939	477981.61
39+050.000	3150151.982	477986.057
39+060.000	3150143.031	477990.515
39+070.000	3150134.084	477994.983
39+080.000	3150125.143	477999.46
39+090.000	3150116.206	478003.948
39+100.000	3150107.275	478008.445
39+110.000	3150098.348	478012.953
39+120.000	3150089.427	478017.47
39+130.000	3150080.51	478021.997
39+140.000	3150071.599	478026.534
39+150.000	3150062.692	478031.081
39+160.000	3150053.791	478035.638
39+170.000	3150044.894	478040.205
39+180.000	3150036.003	478044.781
39+190.000	3150027.117	478049.368

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEBRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	19 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/19

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
39+200.000	3150018.236	478053.964
39+210.000	3150009.36	478058.57
39+220.000	3150000.489	478063.187
39+230.000	3149991.623	478067.812
39+240.000	3149982.763	478072.448
39+250.000	3149973.907	478077.094
39+260.000	3149965.057	478081.749
39+270.000	3149956.212	478086.415
39+280.000	3149947.372	478091.09
39+290.000	3149938.538	478095.775
39+300.000	3149929.708	478100.47
39+310.000	3149920.884	478105.174
39+320.000	3149912.065	478109.889
39+330.000	3149903.251	478114.613
39+340.000	3149894.443	478119.347
39+350.000	3149885.64	478124.09
39+360.000	3149876.842	478128.844
39+370.000	3149868.049	478133.607
39+380.000	3149859.262	478138.38
39+390.000	3149850.48	478143.163
39+400.000	3149841.703	478147.956
39+410.000	3149832.931	478152.758
39+420.000	3149824.165	478157.57
39+430.000	3149815.405	478162.392
39+440.000	3149806.649	478167.224
39+450.000	3149797.899	478172.065
39+460.000	3149789.155	478176.916
39+470.000	3149780.416	478181.777
39+480.000	3149771.682	478186.647
39+490.000	3149762.953	478191.527
39+500.000	3149754.23	478196.417
39+510.000	3149745.513	478201.316
39+520.000	3149736.801	478206.226
39+530.000	3149728.094	478211.144
39+540.000	3149719.393	478216.073
39+550.000	3149710.697	478221.011
39+560.000	3149702.007	478225.959
39+570.000	3149693.323	478230.916
39+580.000	3149684.644	478235.884
39+590.000	3149675.97	478240.86
39+600.000	3149667.302	478245.847
39+610.000	3149658.639	478250.843
39+620.000	3149649.982	478255.849
39+630.000	3149641.331	478260.864
39+640.000	3149632.685	478265.889
39+650.000	3149624.045	478270.923
39+660.000	3149615.41	478275.967
39+670.000	3149606.781	478281.021
39+680.000	3149598.158	478286.084

Station	Northing	Easting
39+690.000	3149589.54	478291.157
39+700.000	3149580.928	478296.24
39+710.000	3149572.321	478301.332
39+720.000	3149563.721	478306.433
39+730.000	3149555.125	478311.544
39+740.000	3149546.536	478316.665
39+750.000	3149537.952	478321.795
39+760.000	3149529.374	478326.935
39+770.000	3149520.802	478332.084
39+780.000	3149512.235	478337.243
39+790.000	3149503.674	478342.411
39+800.000	3149495.119	478347.589
39+810.000	3149486.567	478352.772
39+820.000	3149478.015	478357.955
39+830.000	3149469.463	478363.138
39+840.000	3149460.911	478368.321
39+850.000	3149452.36	478373.505
39+860.000	3149443.808	478378.688
39+870.000	3149435.256	478383.871
39+880.000	3149426.704	478389.054
39+890.000	3149418.152	478394.237
39+900.000	3149409.6	478399.42
39+910.000	3149401.048	478404.603
39+920.000	3149392.496	478409.786
39+930.000	3149383.944	478414.969
39+940.000	3149375.392	478420.153
39+950.000	3149366.84	478425.336
39+960.000	3149358.288	478430.519
39+970.000	3149349.737	478435.702
39+980.000	3149341.185	478440.885
39+990.000	3149332.633	478446.068
40+000.000	3149324.081	478451.251
40+010.000	3149315.529	478456.434
40+020.000	3149306.977	478461.618
40+030.000	3149298.425	478466.801
40+040.000	3149289.873	478471.984
40+050.000	3149281.321	478477.167
40+060.000	3149272.769	478482.35
40+070.000	3149264.217	478487.533
40+080.000	3149255.665	478492.716
40+090.000	3149247.113	478497.899
40+100.000	3149238.562	478503.082
40+110.000	3149230.01	478508.266
40+120.000	3149221.458	478513.449
40+130.000	3149212.906	478518.632
40+140.000	3149204.354	478523.815
40+150.000	3149195.802	478528.998
40+160.000	3149187.25	478534.181
40+170.000	3149178.698	478539.364

Station	Northing	Easting
40+180.000	3149170.146	478544.547
40+190.000	3149161.594	478549.73
40+200.000	3149153.042	478554.914
40+210.000	3149144.49	478560.097
40+220.000	3149135.939	478565.28
40+230.000	3149127.387	478570.463
40+240.000	3149118.835	478575.646
40+250.000	3149110.283	478580.829
40+260.000	3149101.731	478586.012
40+270.000	3149093.179	478591.195
40+280.000	3149084.627	478596.379
40+290.000	3149076.075	478601.562
40+300.000	3149067.523	478606.745
40+310.000	3149058.971	478611.928
40+320.000	3149050.419	478617.111
40+330.000	3149041.867	478622.294
40+340.000	3149033.316	478627.477
40+350.000	3149024.764	478632.66
40+360.000	3149016.212	478637.843
40+370.000	3149007.66	478643.027
40+380.000	3148999.108	478648.21
40+390.000	3148990.556	478653.393
40+400.000	3148982.004	478658.576
40+410.000	3148973.452	478663.759
40+420.000	3148964.9	478668.942
40+430.000	3148956.348	478674.125
40+440.000	3148947.796	478679.308
40+450.000	3148939.244	478684.492
40+460.000	3148930.693	478689.675
40+470.000	3148922.141	478694.858
40+480.000	3148913.589	478700.041
40+490.000	3148905.037	478705.224
40+500.000	3148896.485	478710.407
40+510.000	3148887.933	478715.59
40+520.000	3148879.381	478720.773
40+530.000	3148870.829	478725.956
40+540.000	3148862.277	478731.14
40+550.000	3148853.725	478736.323
40+560.000	3148845.173	478741.506
40+570.000	3148836.621	478746.689
40+580.000	3148828.069	478751.872
40+590.000	3148819.518	478757.055
40+600.000	3148810.966	478762.238
40+610.000	3148802.414	478767.421
40+620.000	3148793.862	478772.604
40+630.000	3148785.31	478777.788
40+640.000	3148776.758	478782.971
40+650.000	3148768.206	478788.154
40+660.000	3148759.654	478793.337

Station	Northing	Easting
40+670.000	3148751.102	478798.52
40+680.000	3148742.55	478803.703
40+690.000	3148733.998	478808.886
40+700.000	3148725.446	478814.069
40+710.000	3148716.895	478819.253
40+720.000	3148708.343	478824.436
40+730.000	3148699.791	478829.619
40+740.000	3148691.239	478834.802
40+750.000	3148682.687	478839.985
40+760.000	3148674.135	478845.168
40+770.000	3148665.583	478850.351
40+780.000	3148657.031	478855.534
40+790.000	3148648.479	478860.717
40+800.000	3148639.927	478865.901
40+810.000	3148631.375	478871.084
40+820.000	3148622.823	478876.267
40+830.000	3148614.272	478881.45
40+840.000	3148605.72	478886.633
40+850.000	3148597.168	478891.816
40+860.000	3148588.616	478896.999
40+870.000	3148580.064	478902.182
40+880.000	3148571.512	478907.365
40+890.000	3148562.96	478912.549
40+900.000	3148554.408	478917.732
40+910.000	3148545.856	478922.915
40+920.000	3148537.304	478928.098
40+930.000	3148528.752	478933.281
40+940.000	3148520.2	478938.464
40+950.000	3148511.648	478943.647
40+960.000	3148503.097	478948.83
40+970.000	3148494.545	478954.014
40+980.000	3148485.993	478959.197
40+990.000	3148477.441	478964.38
41+000.000	3148468.889	478969.563
41+010.000	3148460.337	478974.746
41+020.000	3148451.785	478979.929
41+030.000	3148443.233	478985.112
41+040.000	3148434.681	478990.295
41+050.000	3148426.129	478995.478
41+060.000	3148417.577	479000.662
41+070.000	3148409.025	479005.845
41+080.000	3148400.474	479011.028
41+090.000	3148391.922	479016.211
41+100.000	3148383.37	479021.394
41+110.000	3148374.818	479026.577
41+120.000	3148366.266	479031.76
41+130.000	3148357.714	479036.943
41+140.000	3148349.162	479042.126
41+150.000	3148340.61	479047.31

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEBRUK INTERNATIONAL (PVT) LTD
3rd Floor, Tara Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	20 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV. 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/20

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
41+160.000	3148332.058	479052.493
41+170.000	3148323.506	479057.676
41+180.000	3148314.954	479062.859
41+190.000	3148306.402	479068.042
41+200.000	3148297.851	479073.225
41+210.000	3148289.299	479078.408
41+220.000	3148280.747	479083.591
41+230.000	3148272.195	479088.775
41+240.000	3148263.643	479093.958
41+250.000	3148255.091	479099.141
41+260.000	3148246.539	479104.324
41+270.000	3148237.987	479109.507
41+280.000	3148229.435	479114.69
41+290.000	3148220.883	479119.873
41+300.000	3148212.331	479125.056
41+310.000	3148203.779	479130.239
41+320.000	3148195.227	479135.423
41+330.000	3148186.676	479140.606
41+340.000	3148178.124	479145.789
41+350.000	3148169.572	479150.972
41+360.000	3148161.02	479156.155
41+370.000	3148152.468	479161.338
41+380.000	3148143.916	479166.521
41+390.000	3148135.364	479171.704
41+400.000	3148126.812	479176.887
41+410.000	3148118.26	479182.071
41+420.000	3148109.708	479187.254
41+430.000	3148101.156	479192.437
41+440.000	3148092.604	479197.62
41+450.000	3148084.053	479202.803
41+460.000	3148075.501	479207.986
41+470.000	3148066.949	479213.169
41+480.000	3148058.397	479218.352
41+490.000	3148049.845	479223.536
41+500.000	3148041.293	479228.719
41+510.000	3148032.741	479233.902
41+520.000	3148024.189	479239.085
41+530.000	3148015.637	479244.268
41+540.000	3148007.085	479249.451
41+550.000	3147998.533	479254.634
41+560.000	3147989.981	479259.817
41+570.000	3147981.43	479265
41+580.000	3147972.878	479270.184
41+590.000	3147964.326	479275.367
41+600.000	3147955.774	479280.55
41+610.000	3147947.222	479285.733
41+620.000	3147938.67	479290.916
41+630.000	3147930.118	479296.099
41+640.000	3147921.566	479301.282

Station	Northing	Easting
41+650.000	3147913.014	479306.465
41+660.000	3147904.462	479311.648
41+670.000	3147895.91	479316.832
41+680.000	3147887.358	479322.015
41+690.000	3147878.807	479327.198
41+700.000	3147870.255	479332.381
41+710.000	3147861.703	479337.564
41+720.000	3147853.151	479342.747
41+730.000	3147844.599	479347.93
41+740.000	3147836.047	479353.113
41+750.000	3147827.495	479358.297
41+760.000	3147818.943	479363.48
41+770.000	3147810.391	479368.663
41+780.000	3147801.839	479373.846
41+790.000	3147793.287	479379.029
41+800.000	3147784.735	479384.212
41+810.000	3147776.183	479389.395
41+820.000	3147767.632	479394.578
41+830.000	3147759.08	479399.761
41+840.000	3147750.528	479404.945
41+850.000	3147741.976	479410.128
41+860.000	3147733.424	479415.311
41+870.000	3147724.872	479420.494
41+880.000	3147716.32	479425.677
41+890.000	3147707.768	479430.86
41+900.000	3147699.216	479436.043
41+910.000	3147690.664	479441.226
41+920.000	3147682.112	479446.409
41+930.000	3147673.56	479451.593
41+940.000	3147665.009	479456.776
41+950.000	3147656.457	479461.959
41+960.000	3147647.905	479467.142
41+970.000	3147639.353	479472.325
41+980.000	3147630.801	479477.508
41+990.000	3147622.249	479482.691
42+000.000	3147613.697	479487.874
42+010.000	3147605.145	479493.058
42+020.000	3147596.593	479498.241
42+030.000	3147588.041	479503.424
42+040.000	3147579.489	479508.607
42+050.000	3147570.937	479513.79
42+060.000	3147562.386	479518.973
42+070.000	3147553.834	479524.156
42+080.000	3147545.282	479529.339
42+090.000	3147536.73	479534.522
42+100.000	3147528.178	479539.706
42+110.000	3147519.626	479544.889
42+120.000	3147511.074	479550.072
42+130.000	3147502.522	479555.255

Station	Northing	Easting
42+140.000	3147493.97	479560.438
42+150.000	3147485.418	479565.621
42+160.000	3147476.866	479570.804
42+170.000	3147468.314	479575.987
42+180.000	3147459.762	479581.17
42+190.000	3147451.211	479586.354
42+200.000	3147442.659	479591.537
42+210.000	3147434.107	479596.72
42+220.000	3147425.555	479601.903
42+230.000	3147417.003	479607.086
42+240.000	3147408.451	479612.269
42+250.000	3147399.899	479617.452
42+260.000	3147391.347	479622.635
42+270.000	3147382.795	479627.819
42+280.000	3147374.243	479633.002
42+290.000	3147365.691	479638.185
42+300.000	3147357.139	479643.368
42+310.000	3147348.588	479648.551
42+320.000	3147340.036	479653.734
42+330.000	3147331.484	479658.917
42+340.000	3147322.932	479664.1
42+350.000	3147314.38	479669.283
42+360.000	3147305.828	479674.467
42+370.000	3147297.276	479679.65
42+380.000	3147288.724	479684.833
42+390.000	3147280.172	479690.016
42+400.000	3147271.62	479695.199
42+410.000	3147263.068	479700.382
42+420.000	3147254.516	479705.565
42+430.000	3147245.965	479710.748
42+440.000	3147237.413	479715.931
42+450.000	3147228.861	479721.115
42+460.000	3147220.309	479726.298
42+470.000	3147211.757	479731.481
42+480.000	3147203.205	479736.664
42+490.000	3147194.653	479741.847
42+500.000	3147186.101	479747.03
42+510.000	3147177.549	479752.213
42+520.000	3147168.997	479757.396
42+530.000	3147160.445	479762.58
42+540.000	3147151.893	479767.763
42+550.000	3147143.342	479772.946
42+560.000	3147134.79	479778.129
42+570.000	3147126.238	479783.312
42+580.000	3147117.686	479788.495
42+590.000	3147109.134	479793.678
42+600.000	3147100.582	479798.861
42+610.000	3147092.03	479804.044
42+620.000	3147083.478	479809.228

Station	Northing	Easting
42+630.000	3147074.926	479814.411
42+640.000	3147066.374	479819.594
42+650.000	3147057.822	479824.777
42+660.000	3147049.27	479829.96
42+670.000	3147040.718	479835.143
42+680.000	3147032.167	479840.326
42+690.000	3147023.615	479845.509
42+700.000	3147015.063	479850.693
42+710.000	3147006.511	479855.876
42+720.000	3146997.959	479861.059
42+730.000	3146989.407	479866.242
42+740.000	3146980.855	479871.425
42+750.000	3146972.303	479876.608
42+760.000	3146963.751	479881.791
42+770.000	3146955.199	479886.974
42+780.000	3146946.647	479892.157
42+790.000	3146938.095	479897.341
42+800.000	3146929.544	479902.524
42+810.000	3146920.992	479907.707
42+820.000	3146912.44	479912.89
42+830.000	3146903.888	479918.073
42+840.000	3146895.336	479923.256
42+850.000	3146886.784	479928.439
42+860.000	3146878.232	479933.622
42+870.000	3146869.68	479938.805
42+880.000	3146861.128	479943.989
42+890.000	3146852.576	479949.172
42+900.000	3146844.024	479954.355
42+910.000	3146835.472	479959.538
42+920.000	3146826.921	479964.721
42+930.000	3146818.369	479969.904
42+940.000	3146809.817	479975.087
42+950.000	3146801.265	479980.27
42+960.000	3146792.713	479985.454
42+970.000	3146784.161	479990.637
42+980.000	3146775.609	479995.82
42+990.000	3146767.057	480001.003
43+000.000	3146758.505	480006.186
43+010.000	3146749.953	480011.369
43+020.000	3146741.401	480016.552
43+030.000	3146732.849	480021.735
43+040.000	3146724.297	480026.918
43+050.000	3146715.746	480032.102
43+060.000	3146707.194	480037.285
43+070.000	3146698.642	480042.468
43+080.000	3146690.09	480047.651
43+090.000	3146681.538	480052.834
43+100.000	3146672.986	480058.017
43+110.000	3146664.434	480063.2

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEBRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
1-B Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	21 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SCD/21

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
43+120.000	3146655.882	480068.383
43+130.000	3146647.33	480073.566
43+140.000	3146638.778	480078.75
43+150.000	3146630.226	480083.933
43+160.000	3146621.674	480089.116
43+170.000	3146613.123	480094.299
43+180.000	3146604.571	480099.482
43+190.000	3146596.019	480104.665
43+200.000	3146587.467	480109.848
43+210.000	3146578.915	480115.031
43+220.000	3146570.363	480120.215
43+230.000	3146561.811	480125.398
43+240.000	3146553.259	480130.581
43+250.000	3146544.707	480135.764
43+260.000	3146536.155	480140.947
43+270.000	3146527.603	480146.13
43+280.000	3146519.051	480151.313
43+290.000	3146510.5	480156.496
43+300.000	3146501.948	480161.679
43+310.000	3146493.396	480166.863
43+320.000	3146484.844	480172.046
43+330.000	3146476.292	480177.229
43+340.000	3146467.74	480182.412
43+350.000	3146459.188	480187.595
43+360.000	3146450.636	480192.778
43+370.000	3146442.084	480197.961
43+380.000	3146433.532	480203.144
43+390.000	3146424.98	480208.327
43+400.000	3146416.428	480213.511
43+410.000	3146407.876	480218.694
43+420.000	3146399.325	480223.877
43+430.000	3146390.773	480229.06
43+440.000	3146382.221	480234.243
43+450.000	3146373.669	480239.426
43+460.000	3146365.117	480244.609
43+470.000	3146356.565	480249.792
43+480.000	3146348.013	480254.976
43+490.000	3146339.461	480260.159
43+500.000	3146330.909	480265.342
43+510.000	3146322.357	480270.525
43+520.000	3146313.805	480275.708
43+530.000	3146305.253	480280.891
43+540.000	3146296.702	480286.074
43+550.000	3146288.15	480291.257
43+560.000	3146279.598	480296.44
43+570.000	3146271.046	480301.624
43+580.000	3146262.494	480306.807
43+590.000	3146253.942	480311.99
43+600.000	3146245.39	480317.173

Station	Northing	Easting
43+610.000	3146236.838	480322.356
43+620.000	3146228.286	480327.539
43+630.000	3146219.734	480332.722
43+640.000	3146211.182	480337.905
43+650.000	3146202.63	480343.088
43+660.000	3146194.079	480348.272
43+670.000	3146185.527	480353.455
43+680.000	3146176.975	480358.638
43+690.000	3146168.423	480363.821
43+700.000	3146159.871	480369.004
43+710.000	3146151.319	480374.187
43+720.000	3146142.767	480379.37
43+730.000	3146134.215	480384.553
43+740.000	3146125.663	480389.737
43+750.000	3146117.111	480394.92
43+760.000	3146108.559	480400.103
43+770.000	3146100.007	480405.286
43+780.000	3146091.456	480410.469
43+790.000	3146082.904	480415.652
43+800.000	3146074.352	480420.835
43+810.000	3146065.8	480426.018
43+820.000	3146057.248	480431.201
43+830.000	3146048.696	480436.385
43+840.000	3146040.144	480441.568
43+850.000	3146031.592	480446.751
43+860.000	3146023.04	480451.934
43+870.000	3146014.488	480457.117
43+880.000	3146005.936	480462.3
43+890.000	3145997.384	480467.483
43+900.000	3145988.832	480472.666
43+910.000	3145980.281	480477.849
43+920.000	3145971.729	480483.033
43+930.000	3145963.177	480488.216
43+940.000	3145954.625	480493.399
43+950.000	3145946.073	480498.582
43+960.000	3145937.521	480503.765
43+970.000	3145928.969	480508.948
43+980.000	3145920.417	480514.131
43+990.000	3145911.865	480519.314
44+000.000	3145903.313	480524.498
44+010.000	3145894.761	480529.681
44+020.000	3145886.209	480534.864
44+030.000	3145877.658	480540.047
44+040.000	3145869.106	480545.23
44+050.000	3145860.554	480550.413
44+060.000	3145852.002	480555.596
44+070.000	3145843.45	480560.779
44+080.000	3145834.898	480565.962
44+090.000	3145826.346	480571.146

Station	Northing	Easting
44+100.000	3145817.794	480576.329
44+110.000	3145809.242	480581.512
44+120.000	3145800.69	480586.695
44+130.000	3145792.138	480591.878
44+140.000	3145783.586	480597.061
44+150.000	3145775.035	480602.244
44+160.000	3145766.483	480607.427
44+170.000	3145757.931	480612.61
44+180.000	3145749.379	480617.794
44+190.000	3145740.827	480622.977
44+200.000	3145732.275	480628.16
44+210.000	3145723.723	480633.343
44+220.000	3145715.171	480638.526
44+230.000	3145706.619	480643.709
44+240.000	3145698.067	480648.892
44+250.000	3145689.515	480654.075
44+260.000	3145680.963	480659.259
44+270.000	3145672.411	480664.442
44+280.000	3145663.86	480669.625
44+290.000	3145655.308	480674.808
44+300.000	3145646.756	480679.991
44+310.000	3145638.204	480685.174
44+320.000	3145629.652	480690.357
44+330.000	3145621.1	480695.54
44+340.000	3145612.548	480700.723
44+350.000	3145603.996	480705.907
44+360.000	3145595.444	480711.09
44+370.000	3145586.892	480716.273
44+380.000	3145578.34	480721.456
44+390.000	3145569.788	480726.639
44+400.000	3145561.237	480731.822
44+410.000	3145552.685	480737.005
44+420.000	3145544.133	480742.188
44+430.000	3145535.581	480747.371
44+440.000	3145527.029	480752.555
44+450.000	3145518.477	480757.738
44+460.000	3145509.925	480762.921
44+470.000	3145501.373	480768.104
44+480.000	3145492.821	480773.287
44+490.000	3145484.269	480778.47
44+500.000	3145475.717	480783.653
44+510.000	3145467.165	480788.836
44+520.000	3145458.614	480794.02
44+530.000	3145450.062	480799.203
44+540.000	3145441.51	480804.386
44+550.000	3145432.958	480809.569
44+560.000	3145424.406	480814.752
44+570.000	3145415.854	480819.935
44+580.000	3145407.302	480825.118

Station	Northing	Easting
44+590.000	3145398.75	480830.301
44+600.000	3145390.198	480835.484
44+610.000	3145381.646	480840.668
44+620.000	3145373.094	480845.851
44+630.000	3145364.542	480851.034
44+640.000	3145355.99	480856.217
44+650.000	3145347.439	480861.4
44+660.000	3145338.887	480866.583
44+670.000	3145330.335	480871.766
44+680.000	3145321.783	480876.949
44+690.000	3145313.231	480882.133
44+700.000	3145304.679	480887.316
44+710.000	3145296.127	480892.499
44+720.000	3145287.575	480897.682
44+730.000	3145279.023	480902.865
44+740.000	3145270.471	480908.048
44+750.000	3145261.919	480913.231
44+760.000	3145253.367	480918.414
44+770.000	3145244.816	480923.597
44+780.000	3145236.264	480928.781
44+790.000	3145227.712	480933.964
44+800.000	3145219.16	480939.147
44+810.000	3145210.608	480944.33
44+820.000	3145202.056	480949.513
44+830.000	3145193.504	480954.696
44+840.000	3145184.952	480959.879
44+850.000	3145176.4	480965.062
44+860.000	3145167.848	480970.245
44+870.000	3145159.296	480975.429
44+880.000	3145150.744	480980.612
44+890.000	3145142.193	480985.795
44+900.000	3145133.641	480990.978
44+910.000	3145125.089	480996.161
44+920.000	3145116.537	481001.344
44+930.000	3145107.985	481006.527
44+940.000	3145099.433	481011.71
44+950.000	3145090.881	481016.894
44+960.000	3145082.329	481022.077
44+970.000	3145073.777	481027.26
44+980.000	3145065.225	481032.443
44+990.000	3145056.673	481037.626
45+000.000	3145048.121	481042.809
45+010.000	3145039.57	481047.992
45+020.000	3145031.018	481053.175
45+030.000	3145022.466	481058.358
45+040.000	3145013.914	481063.542
45+050.000	3145005.362	481068.725
45+060.000	3144996.81	481073.908
45+070.000	3144988.258	481079.091

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Tuns Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS

DRAWING TITLE:

STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	22 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SCD/22

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
45+080.000	3144979.706	481084.274
45+090.000	3144971.154	481089.457
45+100.000	3144962.602	481094.64
45+110.000	3144954.05	481099.823
45+120.000	3144945.498	481105.006
45+130.000	3144936.946	481110.19
45+140.000	3144928.395	481115.373
45+150.000	3144919.843	481120.556
45+160.000	3144911.291	481125.739
45+170.000	3144902.739	481130.922
45+180.000	3144894.187	481136.105
45+190.000	3144885.635	481141.288
45+200.000	3144877.083	481146.471
45+210.000	3144868.531	481151.655
45+220.000	3144859.979	481156.838
45+230.000	3144851.427	481162.021
45+240.000	3144842.875	481167.204
45+250.000	3144834.323	481172.387
45+260.000	3144825.772	481177.57
45+270.000	3144817.22	481182.753
45+280.000	3144808.668	481187.936
45+290.000	3144800.116	481193.119
45+300.000	3144791.564	481198.303
45+310.000	3144783.012	481203.486
45+320.000	3144774.46	481208.669
45+330.000	3144765.908	481213.852
45+340.000	3144757.356	481219.035
45+350.000	3144748.804	481224.218
45+360.000	3144740.252	481229.401
45+370.000	3144731.7	481234.584
45+380.000	3144723.149	481239.767
45+390.000	3144714.597	481244.951
45+400.000	3144706.045	481250.134
45+410.000	3144697.493	481255.317
45+420.000	3144688.941	481260.5
45+430.000	3144680.389	481265.683
45+440.000	3144671.837	481270.866
45+450.000	3144663.285	481276.049
45+460.000	3144654.733	481281.232
45+470.000	3144646.181	481286.416
45+480.000	3144637.629	481291.599
45+490.000	3144629.077	481296.782
45+500.000	3144620.525	481301.965
45+510.000	3144611.974	481307.148
45+520.000	3144603.422	481312.331
45+530.000	3144594.87	481317.514
45+540.000	3144586.318	481322.697
45+550.000	3144577.766	481327.88
45+560.000	3144569.214	481333.064

Station	Northing	Easting
45+570.000	3144560.662	481338.247
45+580.000	3144552.11	481343.43
45+590.000	3144543.558	481348.613
45+600.000	3144535.006	481353.796
45+610.000	3144526.454	481358.979
45+620.000	3144517.902	481364.162
45+630.000	3144509.351	481369.345
45+640.000	3144500.799	481374.528
45+650.000	3144492.247	481379.712
45+660.000	3144483.695	481384.895
45+670.000	3144475.143	481390.078
45+680.000	3144466.591	481395.261
45+690.000	3144458.039	481400.444
45+700.000	3144449.487	481405.627
45+710.000	3144440.935	481410.81
45+720.000	3144432.383	481415.993
45+730.000	3144423.831	481421.177
45+740.000	3144415.279	481426.36
45+750.000	3144406.728	481431.543
45+760.000	3144398.176	481436.726
45+770.000	3144389.624	481441.909
45+780.000	3144381.072	481447.092
45+790.000	3144372.52	481452.275
45+800.000	3144363.968	481457.458
45+810.000	3144355.416	481462.641
45+820.000	3144346.864	481467.825
45+830.000	3144338.312	481473.008
45+840.000	3144329.76	481478.191
45+850.000	3144321.208	481483.374
45+860.000	3144312.656	481488.557
45+870.000	3144304.104	481493.74
45+880.000	3144295.553	481498.923
45+890.000	3144287.001	481504.106
45+900.000	3144278.449	481509.289
45+910.000	3144269.897	481514.473
45+920.000	3144261.345	481519.656
45+930.000	3144252.793	481524.839
45+940.000	3144244.241	481530.022
45+950.000	3144235.689	481535.205
45+960.000	3144227.137	481540.388
45+970.000	3144218.585	481545.571
45+980.000	3144210.033	481550.754
45+990.000	3144201.481	481555.938
46+000.000	3144192.93	481561.121
46+010.000	3144184.378	481566.304
46+020.000	3144175.826	481571.487
46+030.000	3144167.274	481576.67
46+040.000	3144158.722	481581.853
46+050.000	3144150.17	481587.036

Station	Northing	Easting
46+060.000	3144141.618	481592.219
46+070.000	3144133.066	481597.402
46+080.000	3144124.514	481602.586
46+090.000	3144115.962	481607.769
46+100.000	3144107.41	481612.952
46+110.000	3144098.858	481618.135
46+120.000	3144090.307	481623.318
46+130.000	3144081.755	481628.501
46+140.000	3144073.203	481633.684
46+150.000	3144064.651	481638.867
46+160.000	3144056.099	481644.05
46+170.000	3144047.547	481649.234
46+180.000	3144038.995	481654.417
46+190.000	3144030.443	481659.6
46+200.000	3144021.891	481664.783
46+210.000	3144013.339	481669.966
46+220.000	3144004.787	481675.149
46+230.000	3143996.235	481680.332
46+240.000	3143987.684	481685.515
46+250.000	3143979.132	481690.699
46+260.000	3143970.58	481695.882
46+270.000	3143962.028	481701.065
46+280.000	3143953.476	481706.248
46+290.000	3143944.924	481711.431
46+300.000	3143936.372	481716.614
46+310.000	3143927.82	481721.797
46+320.000	3143919.268	481726.98
46+330.000	3143910.716	481732.163
46+340.000	3143902.164	481737.347
46+350.000	3143893.612	481742.53
46+360.000	3143885.06	481747.713
46+370.000	3143876.509	481752.896
46+380.000	3143867.957	481758.079
46+390.000	3143859.405	481763.262
46+400.000	3143850.853	481768.445
46+410.000	3143842.301	481773.628
46+420.000	3143833.749	481778.811
46+430.000	3143825.197	481783.995
46+440.000	3143816.645	481789.178
46+450.000	3143808.093	481794.361
46+460.000	3143799.541	481799.544
46+470.000	3143790.989	481804.727
46+480.000	3143782.437	481809.91
46+490.000	3143773.886	481815.093
46+500.000	3143765.334	481820.276
46+510.000	3143756.782	481825.46
46+520.000	3143748.23	481830.643
46+530.000	3143739.678	481835.826
46+540.000	3143731.126	481841.009

Station	Northing	Easting
46+550.000	3143722.574	481846.192
46+560.000	3143714.022	481851.375
46+570.000	3143705.47	481856.558
46+580.000	3143696.918	481861.741
46+590.000	3143688.366	481866.924
46+600.000	3143679.814	481872.108
46+610.000	3143671.263	481877.291
46+620.000	3143662.711	481882.474
46+630.000	3143654.159	481887.657
46+640.000	3143645.607	481892.84
46+650.000	3143637.055	481898.023
46+660.000	3143628.503	481903.206
46+670.000	3143619.951	481908.389
46+680.000	3143611.399	481913.572
46+690.000	3143602.847	481918.756
46+700.000	3143594.295	481923.939
46+710.000	3143585.743	481929.122
46+720.000	3143577.191	481934.305
46+730.000	3143568.639	481939.488
46+740.000	3143560.088	481944.671
46+750.000	3143551.536	481949.854
46+760.000	3143542.984	481955.037
46+770.000	3143534.432	481960.221
46+780.000	3143525.88	481965.404
46+790.000	3143517.328	481970.587
46+800.000	3143508.776	481975.77
46+810.000	3143500.224	481980.953
46+820.000	3143491.672	481986.136
46+830.000	3143483.12	481991.319
46+840.000	3143474.568	481996.502
46+850.000	3143466.016	482001.685
46+860.000	3143457.465	482006.869
46+870.000	3143448.913	482012.052
46+880.000	3143440.361	482017.235
46+890.000	3143431.809	482022.418
46+900.000	3143423.257	482027.601
46+910.000	3143414.705	482032.784
46+920.000	3143406.153	482037.967
46+930.000	3143397.601	482043.15
46+940.000	3143389.049	482048.334
46+950.000	3143380.497	482053.517
46+960.000	3143371.945	482058.7
46+970.000	3143363.393	482063.883
46+980.000	3143354.842	482069.066
46+990.000	3143346.29	482074.249
47+000.000	3143337.738	482079.432
47+010.000	3143329.186	482084.615
47+020.000	3143320.634	482089.798
47+030.000	3143312.082	482094.982

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZIEHUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	23 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SCD/23

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
47+040.000	3143303.53	482100.165
47+050.000	3143294.978	482105.348
47+060.000	3143286.426	482110.531
47+070.000	3143277.874	482115.714
47+080.000	3143269.322	482120.897
47+090.000	3143260.77	482126.08
47+100.000	3143252.219	482131.263
47+110.000	3143243.667	482136.446
47+120.000	3143235.115	482141.63
47+130.000	3143226.563	482146.813
47+140.000	3143218.011	482151.996
47+150.000	3143209.459	482157.179
47+160.000	3143200.907	482162.362
47+170.000	3143192.355	482167.545
47+180.000	3143183.803	482172.728
47+190.000	3143175.251	482177.911
47+200.000	3143166.699	482183.095
47+210.000	3143158.147	482188.278
47+220.000	3143149.595	482193.461
47+230.000	3143141.044	482198.644
47+240.000	3143132.492	482203.827
47+250.000	3143123.94	482209.01
47+260.000	3143115.388	482214.193
47+270.000	3143106.836	482219.376
47+280.000	3143098.284	482224.559
47+290.000	3143089.732	482229.743
47+300.000	3143081.18	482234.926
47+310.000	3143072.628	482240.109
47+320.000	3143064.076	482245.292
47+330.000	3143055.524	482250.475
47+340.000	3143046.972	482255.658
47+350.000	3143038.421	482260.841
47+360.000	3143029.869	482266.024
47+370.000	3143021.317	482271.207
47+380.000	3143012.765	482276.391
47+390.000	3143004.213	482281.574
47+400.000	3142995.661	482286.757
47+410.000	3142987.109	482291.94
47+420.000	3142978.557	482297.123
47+430.000	3142970.005	482302.306
47+440.000	3142961.453	482307.489
47+450.000	3142952.901	482312.672
47+460.000	3142944.349	482317.856
47+470.000	3142935.798	482323.039
47+480.000	3142927.246	482328.222
47+490.000	3142918.694	482333.405
47+500.000	3142910.142	482338.588
47+510.000	3142901.59	482343.771
47+520.000	3142893.038	482348.954

Station	Northing	Easting
47+530.000	3142884.486	482354.137
47+540.000	3142875.934	482359.32
47+550.000	3142867.382	482364.504
47+560.000	3142858.83	482369.687
47+570.000	3142850.278	482374.87
47+580.000	3142841.726	482380.053
47+590.000	3142833.174	482385.236
47+600.000	3142824.623	482390.419
47+610.000	3142816.071	482395.602
47+620.000	3142807.519	482400.785
47+630.000	3142798.967	482405.968
47+640.000	3142790.415	482411.152
47+650.000	3142781.863	482416.335
47+660.000	3142773.311	482421.518
47+670.000	3142764.759	482426.701
47+680.000	3142756.207	482431.884
47+690.000	3142747.655	482437.067
47+700.000	3142739.103	482442.25
47+710.000	3142730.551	482447.433
47+720.000	3142722	482452.617
47+730.000	3142713.448	482457.8
47+740.000	3142704.896	482462.983
47+750.000	3142696.344	482468.166
47+760.000	3142687.792	482473.349
47+770.000	3142679.24	482478.532
47+780.000	3142670.688	482483.715
47+790.000	3142662.136	482488.898
47+800.000	3142653.584	482494.081
47+810.000	3142645.032	482499.265
47+820.000	3142636.48	482504.448
47+830.000	3142627.928	482509.631
47+840.000	3142619.377	482514.814
47+850.000	3142610.825	482519.997
47+860.000	3142602.273	482525.18
47+870.000	3142593.721	482530.363
47+880.000	3142585.169	482535.546
47+890.000	3142576.617	482540.729
47+900.000	3142568.065	482545.913
47+910.000	3142559.513	482551.096
47+920.000	3142550.961	482556.279
47+930.000	3142542.409	482561.462
47+940.000	3142533.857	482566.645
47+950.000	3142525.305	482571.828
47+960.000	3142516.753	482577.011
47+970.000	3142508.202	482582.194
47+980.000	3142499.65	482587.378
47+990.000	3142491.098	482592.561
48+000.000	3142482.546	482597.744
48+010.000	3142473.994	482602.927

Station	Northing	Easting
48+020.000	3142465.442	482608.11
48+030.000	3142456.89	482613.293
48+040.000	3142448.338	482618.476
48+050.000	3142439.786	482623.659
48+060.000	3142431.234	482628.842
48+070.000	3142422.682	482634.026
48+080.000	3142414.13	482639.209
48+090.000	3142405.579	482644.392
48+100.000	3142397.027	482649.575
48+110.000	3142388.475	482654.758
48+120.000	3142379.923	482659.941
48+130.000	3142371.371	482665.124
48+140.000	3142362.819	482670.307
48+150.000	3142354.267	482675.49
48+160.000	3142345.715	482680.674
48+170.000	3142337.163	482685.857
48+180.000	3142328.611	482691.04
48+190.000	3142320.059	482696.223
48+200.000	3142311.507	482701.406
48+210.000	3142302.956	482706.589
48+220.000	3142294.404	482711.772
48+230.000	3142285.852	482716.955
48+240.000	3142277.3	482722.139
48+250.000	3142268.748	482727.322
48+260.000	3142260.196	482732.505
48+270.000	3142251.644	482737.688
48+280.000	3142243.092	482742.871
48+290.000	3142234.54	482748.054
48+300.000	3142225.988	482753.237
48+310.000	3142217.436	482758.42
48+320.000	3142208.884	482763.603
48+330.000	3142200.333	482768.787
48+340.000	3142191.781	482773.97
48+350.000	3142183.229	482779.153
48+360.000	3142174.677	482784.336
48+370.000	3142166.125	482789.519
48+380.000	3142157.573	482794.702
48+390.000	3142149.021	482799.885
48+400.000	3142140.469	482805.068
48+410.000	3142131.917	482810.251
48+420.000	3142123.365	482815.435
48+430.000	3142114.813	482820.618
48+440.000	3142106.261	482825.801
48+450.000	3142097.709	482830.984
48+460.000	3142089.158	482836.167
48+470.000	3142080.606	482841.35
48+480.000	3142072.054	482846.533
48+490.000	3142063.502	482851.716
48+500.000	3142054.95	482856.9

Station	Northing	Easting
48+510.000	3142046.398	482862.083
48+520.000	3142037.846	482867.266
48+530.000	3142029.294	482872.449
48+540.000	3142020.742	482877.632
48+550.000	3142012.19	482882.815
48+560.000	3142003.638	482887.998
48+570.000	3141995.086	482893.181
48+580.000	3141986.535	482898.364
48+590.000	3141977.983	482903.548
48+600.000	3141969.431	482908.731
48+610.000	3141960.879	482913.914
48+620.000	3141952.327	482919.097
48+630.000	3141943.775	482924.28
48+640.000	3141935.223	482929.463
48+650.000	3141926.671	482934.646
48+660.000	3141918.119	482939.829
48+670.000	3141909.567	482945.012
48+680.000	3141901.015	482950.196
48+690.000	3141892.463	482955.379
48+700.000	3141883.912	482960.562
48+710.000	3141875.36	482965.745
48+720.000	3141866.808	482970.928
48+730.000	3141858.256	482976.111
48+740.000	3141849.704	482981.294
48+750.000	3141841.152	482986.477
48+760.000	3141832.6	482991.661
48+770.000	3141824.048	482996.844
48+780.000	3141815.496	483002.027
48+790.000	3141806.944	483007.21
48+800.000	3141798.392	483012.393
48+810.000	3141789.84	483017.576
48+820.000	3141781.288	483022.759
48+830.000	3141772.737	483027.942
48+840.000	3141764.185	483033.125
48+850.000	3141755.633	483038.309
48+860.000	3141747.081	483043.492
48+870.000	3141738.529	483048.675
48+880.000	3141729.977	483053.858
48+890.000	3141721.425	483059.041
48+900.000	3141712.873	483064.224
48+910.000	3141704.321	483069.407
48+920.000	3141695.769	483074.59
48+930.000	3141687.217	483079.773
48+940.000	3141678.665	483084.957
48+950.000	3141670.114	483090.14
48+960.000	3141661.562	483095.323
48+970.000	3141653.01	483100.506
48+980.000	3141644.458	483105.689
48+990.000	3141635.906	483110.872

NOTES

REV	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL.

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
1-B Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	24 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SCD/24

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
49+000.000	3141627.354	483116.055
49+010.000	3141618.802	483121.238
49+020.000	3141610.25	483126.422
49+030.000	3141601.698	483131.605
49+040.000	3141593.146	483136.788
49+050.000	3141584.594	483141.971
49+060.000	3141576.042	483147.154
49+070.000	3141567.491	483152.337
49+080.000	3141558.939	483157.52
49+090.000	3141550.381	483162.694
49+100.000	3141541.813	483167.851
49+110.000	3141533.235	483172.991
49+120.000	3141524.647	483178.113
49+130.000	3141516.048	483183.218
49+140.000	3141507.44	483188.307
49+150.000	3141498.821	483193.377
49+160.000	3141490.192	483198.431
49+170.000	3141481.552	483203.467
49+180.000	3141472.903	483208.487
49+190.000	3141464.244	483213.488
49+200.000	3141455.575	483218.473
49+210.000	3141446.896	483223.44
49+220.000	3141438.206	483228.39
49+230.000	3141429.507	483233.322
49+240.000	3141420.799	483238.237
49+250.000	3141412.08	483243.134
49+260.000	3141403.352	483248.014
49+270.000	3141394.614	483252.877
49+280.000	3141385.866	483257.722
49+290.000	3141377.108	483262.55
49+300.000	3141368.341	483267.36
49+310.000	3141359.564	483272.152
49+320.000	3141350.778	483276.927
49+330.000	3141341.982	483281.685
49+340.000	3141333.177	483286.424
49+350.000	3141324.362	483291.147
49+360.000	3141315.538	483295.851
49+370.000	3141306.704	483300.538
49+380.000	3141297.861	483305.207
49+390.000	3141289.009	483309.859
49+400.000	3141280.147	483314.493
49+410.000	3141271.276	483319.109
49+420.000	3141262.396	483323.707
49+430.000	3141253.507	483328.287
49+440.000	3141244.608	483332.85
49+450.000	3141235.701	483337.395
49+460.000	3141226.784	483341.922
49+470.000	3141217.859	483346.431
49+480.000	3141208.924	483350.923

Station	Northing	Easting
49+490.000	3141199.981	483355.396
49+500.000	3141191.028	483359.852
49+510.000	3141182.067	483364.29
49+520.000	3141173.096	483368.71
49+530.000	3141164.117	483373.111
49+540.000	3141155.129	483377.495
49+550.000	3141146.133	483381.861
49+560.000	3141137.128	483386.209
49+570.000	3141128.114	483390.539
49+580.000	3141119.091	483394.851
49+590.000	3141110.06	483399.144
49+600.000	3141101.02	483403.42
49+610.000	3141091.972	483407.678
49+620.000	3141082.915	483411.917
49+630.000	3141073.849	483416.139
49+640.000	3141064.776	483420.342
49+650.000	3141055.693	483424.527
49+660.000	3141046.603	483428.694
49+670.000	3141037.504	483432.843
49+680.000	3141028.397	483436.973
49+690.000	3141019.282	483441.086
49+700.000	3141010.158	483445.18
49+710.000	3141001.027	483449.255
49+720.000	3140991.887	483453.313
49+730.000	3140982.739	483457.352
49+740.000	3140973.583	483461.373
49+750.000	3140964.419	483465.376
49+760.000	3140955.247	483469.36
49+770.000	3140946.067	483473.326
49+780.000	3140936.879	483477.274
49+790.000	3140927.683	483481.203
49+800.000	3140918.48	483485.114
49+810.000	3140909.268	483489.006
49+820.000	3140900.049	483492.88
49+830.000	3140890.822	483496.735
49+840.000	3140881.588	483500.572
49+850.000	3140872.346	483504.391
49+860.000	3140863.096	483508.191
49+870.000	3140853.838	483511.973
49+880.000	3140844.573	483515.736
49+890.000	3140835.301	483519.48
49+900.000	3140826.021	483523.206
49+910.000	3140816.734	483526.913
49+920.000	3140807.439	483530.602
49+930.000	3140798.137	483534.272
49+940.000	3140788.827	483537.924
49+950.000	3140779.511	483541.557
49+960.000	3140770.187	483545.171
49+970.000	3140760.855	483548.767

Station	Northing	Easting
49+980.000	3140751.517	483552.344
49+990.000	3140742.172	483555.902
50+000.000	3140732.819	483559.442
50+010.000	3140723.459	483562.963
50+020.000	3140714.093	483566.465
50+030.000	3140704.719	483569.948
50+040.000	3140695.338	483573.413
50+050.000	3140685.951	483576.859
50+060.000	3140676.556	483580.286
50+070.000	3140667.155	483583.694
50+080.000	3140657.747	483587.084
50+090.000	3140648.335	483590.462
50+100.000	3140638.923	483593.839
50+110.000	3140629.51	483597.217
50+120.000	3140620.098	483600.594
50+130.000	3140610.686	483603.972
50+140.000	3140601.273	483607.35
50+150.000	3140591.861	483610.727
50+160.000	3140582.448	483614.105
50+170.000	3140573.036	483617.482
50+180.000	3140563.624	483620.86
50+190.000	3140554.211	483624.237
50+200.000	3140544.799	483627.615
50+210.000	3140535.387	483630.992
50+220.000	3140525.974	483634.37
50+230.000	3140516.562	483637.747
50+240.000	3140507.15	483641.125
50+250.000	3140497.737	483644.503
50+260.000	3140488.325	483647.88
50+270.000	3140478.913	483651.258
50+280.000	3140469.5	483654.635
50+290.000	3140460.088	483658.013
50+300.000	3140450.676	483661.39
50+310.000	3140441.263	483664.768
50+320.000	3140431.851	483668.145
50+330.000	3140422.439	483671.523
50+340.000	3140413.026	483674.901
50+350.000	3140403.614	483678.278
50+360.000	3140394.202	483681.656
50+370.000	3140384.789	483685.033
50+380.000	3140375.377	483688.411
50+390.000	3140365.965	483691.788
50+400.000	3140356.552	483695.166
50+410.000	3140347.14	483698.543
50+420.000	3140337.728	483701.921
50+430.000	3140328.315	483705.299
50+440.000	3140318.903	483708.676
50+450.000	3140309.491	483712.054
50+460.000	3140300.078	483715.431

Station	Northing	Easting
50+470.000	3140290.666	483718.809
50+480.000	3140281.254	483722.186
50+490.000	3140271.841	483725.564
50+500.000	3140262.429	483728.941
50+510.000	3140253.017	483732.319
50+520.000	3140243.604	483735.696
50+530.000	3140234.192	483739.074
50+540.000	3140224.78	483742.452
50+550.000	3140215.367	483745.829
50+560.000	3140205.955	483749.207
50+570.000	3140196.543	483752.584
50+580.000	3140187.13	483755.962
50+590.000	3140177.718	483759.339
50+600.000	3140168.306	483762.717
50+610.000	3140158.893	483766.094
50+620.000	3140149.481	483769.472
50+630.000	3140140.068	483772.85
50+640.000	3140130.656	483776.227
50+650.000	3140121.244	483779.605
50+660.000	3140111.831	483782.982
50+670.000	3140102.419	483786.36
50+680.000	3140093.007	483789.737
50+690.000	3140083.594	483793.115
50+700.000	3140074.182	483796.492
50+710.000	3140064.77	483799.87
50+720.000	3140055.357	483803.247
50+730.000	3140045.945	483806.625
50+740.000	3140036.533	483810.003
50+750.000	3140027.12	483813.38
50+760.000	3140017.708	483816.758
50+770.000	3140008.296	483820.135
50+780.000	3139998.883	483823.513
50+790.000	3139989.471	483826.89
50+800.000	3139980.059	483830.268
50+810.000	3139970.646	483833.645
50+820.000	3139961.234	483837.023
50+830.000	3139951.822	483840.401
50+840.000	3139942.409	483843.778
50+850.000	3139932.997	483847.156
50+860.000	3139923.585	483850.533
50+870.000	3139914.172	483853.911
50+880.000	3139904.76	483857.288
50+890.000	3139895.348	483860.666
50+900.000	3139885.935	483864.043
50+910.000	3139876.523	483867.421
50+920.000	3139867.111	483870.799
50+930.000	3139857.698	483874.176
50+940.000	3139848.286	483877.554
50+950.000	3139838.874	483880.931

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	25 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/25

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
50+960.000	3139829.461	483884.309
50+970.000	3139820.049	483887.686
50+980.000	3139810.637	483891.064
50+990.000	3139801.224	483894.441
51+000.000	3139791.812	483897.819
51+010.000	3139782.4	483901.196
51+020.000	3139772.987	483904.574
51+030.000	3139763.575	483907.952
51+040.000	3139754.163	483911.329
51+050.000	3139744.75	483914.707
51+060.000	3139735.338	483918.084
51+070.000	3139725.926	483921.462
51+080.000	3139716.513	483924.839
51+090.000	3139707.101	483928.217
51+100.000	3139697.689	483931.594
51+110.000	3139688.276	483934.972
51+120.000	3139678.864	483938.35
51+130.000	3139669.451	483941.727
51+140.000	3139660.039	483945.105
51+150.000	3139650.627	483948.482
51+160.000	3139641.214	483951.86
51+170.000	3139631.802	483955.237
51+180.000	3139622.39	483958.615
51+190.000	3139612.977	483961.992
51+200.000	3139603.565	483965.37
51+210.000	3139594.153	483968.748
51+220.000	3139584.74	483972.125
51+230.000	3139575.328	483975.503
51+240.000	3139565.916	483978.88
51+250.000	3139556.503	483982.258
51+260.000	3139547.091	483985.635
51+270.000	3139537.679	483989.013
51+280.000	3139528.266	483992.39
51+290.000	3139518.854	483995.768
51+300.000	3139509.442	483999.145
51+310.000	3139500.029	484002.523
51+320.000	3139490.617	484005.901
51+330.000	3139481.205	484009.278
51+340.000	3139471.792	484012.656
51+350.000	3139462.38	484016.033
51+360.000	3139452.968	484019.411
51+370.000	3139443.555	484022.788
51+380.000	3139434.143	484026.166
51+390.000	3139424.731	484029.543
51+400.000	3139415.318	484032.921
51+410.000	3139405.906	484036.299
51+420.000	3139396.494	484039.676
51+430.000	3139387.081	484043.054
51+440.000	3139377.669	484046.431

Station	Northing	Easting
51+450.000	3139368.257	484049.809
51+460.000	3139358.844	484053.186
51+470.000	3139349.432	484056.564
51+480.000	3139340.02	484059.941
51+490.000	3139330.607	484063.319
51+500.000	3139321.195	484066.697
51+510.000	3139311.783	484070.074
51+520.000	3139302.37	484073.452
51+530.000	3139292.958	484076.829
51+540.000	3139283.546	484080.207
51+550.000	3139274.133	484083.584
51+560.000	3139264.721	484086.962
51+570.000	3139255.309	484090.339
51+580.000	3139245.896	484093.717
51+590.000	3139236.484	484097.094
51+600.000	3139227.072	484100.472
51+610.000	3139217.659	484103.85
51+620.000	3139208.247	484107.227
51+630.000	3139198.834	484110.605
51+640.000	3139189.422	484113.982
51+650.000	3139180.01	484117.36
51+660.000	3139170.597	484120.737
51+670.000	3139161.185	484124.115
51+680.000	3139151.773	484127.492
51+690.000	3139142.36	484130.87
51+700.000	3139132.948	484134.248
51+710.000	3139123.536	484137.625
51+720.000	3139114.123	484141.003
51+730.000	3139104.711	484144.38
51+740.000	3139095.299	484147.758
51+750.000	3139085.886	484151.135
51+760.000	3139076.474	484154.513
51+770.000	3139067.062	484157.89
51+780.000	3139057.649	484161.268
51+790.000	3139048.237	484164.645
51+800.000	3139038.825	484168.023
51+810.000	3139029.412	484171.401
51+820.000	3139020	484174.778
51+830.000	3139010.588	484178.156
51+840.000	3139001.175	484181.533
51+850.000	3138991.763	484184.911
51+860.000	3138982.351	484188.288
51+870.000	3138972.938	484191.666
51+880.000	3138963.526	484195.043
51+890.000	3138954.114	484198.421
51+900.000	3138944.701	484201.799
51+910.000	3138935.289	484205.176
51+920.000	3138925.877	484208.554
51+930.000	3138916.464	484211.931

Station	Northing	Easting
51+940.000	3138907.052	484215.309
51+950.000	3138897.64	484218.686
51+960.000	3138888.227	484222.064
51+970.000	3138878.815	484225.441
51+980.000	3138869.403	484228.819
51+990.000	3138859.99	484232.197
52+000.000	3138850.578	484235.574
52+010.000	3138841.166	484238.952
52+020.000	3138831.753	484242.329
52+030.000	3138822.341	484245.707
52+040.000	3138812.929	484249.084
52+050.000	3138803.516	484252.462
52+060.000	3138794.104	484255.839
52+070.000	3138784.692	484259.217
52+080.000	3138775.279	484262.594
52+090.000	3138765.867	484265.972
52+100.000	3138756.454	484269.35
52+110.000	3138747.042	484272.727
52+120.000	3138737.63	484276.105
52+130.000	3138728.217	484279.482
52+140.000	3138718.805	484282.86
52+150.000	3138709.393	484286.237
52+160.000	3138699.98	484289.615
52+170.000	3138690.568	484292.992
52+180.000	3138681.156	484296.37
52+190.000	3138671.743	484299.748
52+200.000	3138662.331	484303.125
52+210.000	3138652.919	484306.503
52+220.000	3138643.506	484309.88
52+230.000	3138634.094	484313.258
52+240.000	3138624.682	484316.635
52+250.000	3138615.269	484320.013
52+260.000	3138605.857	484323.39
52+270.000	3138596.445	484326.768
52+280.000	3138587.032	484330.146
52+290.000	3138577.62	484333.523
52+300.000	3138568.208	484336.901
52+310.000	3138558.795	484340.278
52+320.000	3138549.383	484343.656
52+330.000	3138539.971	484347.033
52+340.000	3138530.558	484350.411
52+350.000	3138521.146	484353.788
52+360.000	3138511.734	484357.166
52+370.000	3138502.321	484360.543
52+380.000	3138492.909	484363.921
52+390.000	3138483.497	484367.299
52+400.000	3138474.084	484370.676
52+410.000	3138464.672	484374.054
52+420.000	3138455.26	484377.431

Station	Northing	Easting
52+430.000	3138445.847	484380.809
52+440.000	3138436.435	484384.186
52+450.000	3138427.023	484387.564
52+460.000	3138417.61	484390.941
52+470.000	3138408.198	484394.319
52+480.000	3138398.786	484397.697
52+490.000	3138389.373	484401.074
52+500.000	3138379.961	484404.452
52+510.000	3138370.549	484407.829
52+520.000	3138361.136	484411.207
52+530.000	3138351.724	484414.584
52+540.000	3138342.312	484417.962
52+550.000	3138332.899	484421.339
52+560.000	3138323.487	484424.717
52+570.000	3138314.075	484428.095
52+580.000	3138304.662	484431.472
52+590.000	3138295.25	484434.85
52+600.000	3138285.837	484438.227
52+610.000	3138276.425	484441.605
52+620.000	3138267.013	484444.982
52+630.000	3138257.6	484448.36
52+640.000	3138248.188	484451.737
52+650.000	3138238.776	484455.115
52+660.000	3138229.363	484458.492
52+670.000	3138219.951	484461.87
52+680.000	3138210.539	484465.248
52+690.000	3138201.126	484468.625
52+700.000	3138191.714	484472.003
52+710.000	3138182.302	484475.38
52+720.000	3138172.889	484478.758
52+730.000	3138163.477	484482.135
52+740.000	3138154.065	484485.513
52+750.000	3138144.652	484488.89
52+760.000	3138135.24	484492.268
52+770.000	3138125.828	484495.646
52+780.000	3138116.415	484499.023
52+790.000	3138107.003	484502.401
52+800.000	3138097.591	484505.778
52+810.000	3138088.178	484509.156
52+820.000	3138078.766	484512.533
52+830.000	3138069.354	484515.911
52+840.000	3138059.941	484519.288
52+850.000	3138050.529	484522.666
52+860.000	3138041.117	484526.043
52+870.000	3138031.704	484529.421
52+880.000	3138022.292	484532.799
52+890.000	3138012.88	484536.176
52+900.000	3138003.467	484539.554
52+910.000	3137994.055	484542.931

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEBRUK INTERNATIONAL (PVT) LTD
3rd Floor, Tino Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	26 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/26

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
52+920.000	3137984.643	484546.309
52+930.000	3137975.23	484549.686
52+940.000	3137965.818	484553.064
52+950.000	3137956.406	484556.441
52+960.000	3137946.993	484559.819
52+970.000	3137937.581	484563.197
52+980.000	3137928.169	484566.574
52+990.000	3137918.756	484569.952
53+000.000	3137909.344	484573.329
53+010.000	3137899.932	484576.707
53+020.000	3137890.519	484580.084
53+030.000	3137881.107	484583.462
53+040.000	3137871.695	484586.839
53+050.000	3137862.282	484590.217
53+060.000	3137852.87	484593.595
53+070.000	3137843.458	484596.972
53+080.000	3137834.045	484600.35
53+090.000	3137824.633	484603.727
53+100.000	3137815.22	484607.105
53+110.000	3137805.808	484610.482
53+120.000	3137796.396	484613.86
53+130.000	3137786.983	484617.237
53+140.000	3137777.571	484620.615
53+150.000	3137768.159	484623.992
53+160.000	3137758.746	484627.37
53+170.000	3137749.334	484630.748
53+180.000	3137739.922	484634.125
53+190.000	3137730.509	484637.503
53+200.000	3137721.097	484640.88
53+210.000	3137711.685	484644.258
53+220.000	3137702.272	484647.635
53+230.000	3137692.86	484651.013
53+240.000	3137683.448	484654.39
53+250.000	3137674.035	484657.768
53+260.000	3137664.623	484661.146
53+270.000	3137655.211	484664.523
53+280.000	3137645.798	484667.901
53+290.000	3137636.386	484671.278
53+300.000	3137626.974	484674.656
53+310.000	3137617.561	484678.033
53+320.000	3137608.149	484681.411
53+330.000	3137598.737	484684.788
53+340.000	3137589.324	484688.166
53+350.000	3137579.912	484691.544
53+360.000	3137570.5	484694.921
53+370.000	3137561.087	484698.299
53+380.000	3137551.675	484701.676
53+390.000	3137542.263	484705.054
53+400.000	3137532.85	484708.431

Station	Northing	Easting
53+410.000	3137523.438	484711.809
53+420.000	3137514.026	484715.186
53+430.000	3137504.613	484718.564
53+440.000	3137495.201	484721.941
53+450.000	3137485.789	484725.319
53+460.000	3137476.376	484728.697
53+470.000	3137466.964	484732.074
53+480.000	3137457.552	484735.452
53+490.000	3137448.139	484738.829
53+500.000	3137438.727	484742.207
53+510.000	3137429.315	484745.584
53+520.000	3137419.902	484748.962
53+530.000	3137410.49	484752.339
53+540.000	3137401.078	484755.717
53+550.000	3137391.665	484759.095
53+560.000	3137382.253	484762.472
53+570.000	3137372.841	484765.85
53+580.000	3137363.428	484769.227
53+590.000	3137354.016	484772.605
53+600.000	3137344.603	484775.982
53+610.000	3137335.191	484779.36
53+620.000	3137325.779	484782.737
53+630.000	3137316.366	484786.115
53+640.000	3137306.954	484789.493
53+650.000	3137297.542	484792.87
53+660.000	3137288.129	484796.248
53+670.000	3137278.717	484799.625
53+680.000	3137269.305	484803.003
53+690.000	3137259.892	484806.38
53+700.000	3137250.48	484809.758
53+710.000	3137241.068	484813.135
53+720.000	3137231.655	484816.513
53+730.000	3137222.243	484819.89
53+740.000	3137212.831	484823.268
53+750.000	3137203.418	484826.646
53+760.000	3137194.006	484830.023
53+770.000	3137184.594	484833.401
53+780.000	3137175.181	484836.778
53+790.000	3137165.769	484840.156
53+800.000	3137156.357	484843.533
53+810.000	3137146.944	484846.911
53+820.000	3137137.532	484850.288
53+830.000	3137128.116	484853.656
53+840.000	3137118.696	484857.013
53+850.000	3137109.272	484860.357
53+860.000	3137099.844	484863.69
53+870.000	3137090.411	484867.011
53+880.000	3137080.975	484870.32
53+890.000	3137071.534	484873.618

Station	Northing	Easting
53+900.000	3137062.089	484876.904
53+910.000	3137052.641	484880.177
53+920.000	3137043.188	484883.44
53+930.000	3137033.73	484886.69
53+940.000	3137024.269	484889.928
53+950.000	3137014.804	484893.155
53+960.000	3137005.335	484896.369
53+970.000	3136995.862	484899.572
53+980.000	3136986.385	484902.763
53+990.000	3136976.903	484905.943
54+000.000	3136967.418	484909.11
54+010.000	3136957.929	484912.266
54+020.000	3136948.436	484915.409
54+030.000	3136938.939	484918.541
54+040.000	3136929.438	484921.661
54+050.000	3136919.934	484924.769
54+060.000	3136910.425	484927.865
54+070.000	3136900.913	484930.949
54+080.000	3136891.396	484934.022
54+090.000	3136881.876	484937.082
54+100.000	3136872.352	484940.131
54+110.000	3136862.824	484943.167
54+120.000	3136853.293	484946.192
54+130.000	3136843.757	484949.205
54+140.000	3136834.218	484952.206
54+150.000	3136824.675	484955.195
54+160.000	3136815.129	484958.172
54+170.000	3136805.579	484961.137
54+180.000	3136796.025	484964.09
54+190.000	3136786.467	484967.031
54+200.000	3136776.906	484969.961
54+210.000	3136767.341	484972.878
54+220.000	3136757.772	484975.783
54+230.000	3136748.2	484978.677
54+240.000	3136738.624	484981.558
54+250.000	3136729.044	484984.428
54+260.000	3136719.461	484987.285
54+270.000	3136709.875	484990.131
54+280.000	3136700.284	484992.964
54+290.000	3136690.691	484995.786
54+300.000	3136681.094	484998.595
54+310.000	3136671.493	485001.393
54+320.000	3136661.889	485004.178
54+330.000	3136652.281	485006.952
54+340.000	3136642.67	485009.713
54+350.000	3136633.055	485012.463
54+360.000	3136623.437	485015.2
54+370.000	3136613.816	485017.926
54+380.000	3136604.191	485020.639

Station	Northing	Easting
54+390.000	3136594.563	485023.34
54+400.000	3136584.931	485026.03
54+410.000	3136575.296	485028.707
54+420.000	3136565.658	485031.372
54+430.000	3136556.016	485034.026
54+440.000	3136546.371	485036.667
54+450.000	3136536.723	485039.296
54+460.000	3136527.072	485041.913
54+470.000	3136517.417	485044.518
54+480.000	3136507.759	485047.111
54+490.000	3136498.098	485049.692
54+500.000	3136488.433	485052.26
54+510.000	3136478.766	485054.817
54+520.000	3136469.095	485057.362
54+530.000	3136459.421	485059.894
54+540.000	3136449.744	485062.414
54+550.000	3136440.063	485064.923
54+560.000	3136430.38	485067.419
54+570.000	3136420.693	485069.903
54+580.000	3136411.004	485072.375
54+590.000	3136401.311	485074.835
54+600.000	3136391.615	485077.283
54+610.000	3136381.916	485079.718
54+620.000	3136372.214	485082.142
54+630.000	3136362.51	485084.553
54+640.000	3136352.802	485086.952
54+650.000	3136343.091	485089.339
54+660.000	3136333.377	485091.714
54+670.000	3136323.66	485094.077
54+680.000	3136313.94	485096.428
54+690.000	3136304.217	485098.766
54+700.000	3136294.492	485101.093
54+710.000	3136284.763	485103.407
54+720.000	3136275.032	485105.709
54+730.000	3136265.298	485107.999
54+740.000	3136255.56	485110.277
54+750.000	3136245.82	485112.542
54+760.000	3136236.078	485114.795
54+770.000	3136226.332	485117.037
54+780.000	3136216.584	485119.266
54+790.000	3136206.832	485121.482
54+800.000	3136197.078	485123.687
54+810.000	3136187.322	485125.879
54+820.000	3136177.562	485128.06
54+830.000	3136167.8	485130.228
54+840.000	3136158.035	485132.383
54+850.000	3136148.268	485134.527
54+860.000	3136138.498	485136.658
54+870.000	3136128.725	485138.778

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEFRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	27 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/27

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
54+880.000	3136118.949	485140.885
54+890.000	3136109.171	485142.979
54+900.000	3136099.39	485145.062
54+910.000	3136089.607	485147.132
54+920.000	3136079.821	485149.19
54+930.000	3136070.032	485151.236
54+940.000	3136060.241	485153.27
54+950.000	3136050.448	485155.291
54+960.000	3136040.652	485157.3
54+970.000	3136030.853	485159.297
54+980.000	3136021.052	485161.282
54+990.000	3136011.249	485163.254
55+000.000	3136001.443	485165.214
55+010.000	3135991.636	485167.171
55+020.000	3135981.829	485169.127
55+030.000	3135972.022	485171.084
55+040.000	3135962.216	485173.04
55+050.000	3135952.409	485174.997
55+060.000	3135942.602	485176.953
55+070.000	3135932.795	485178.91
55+080.000	3135922.989	485180.866
55+090.000	3135913.182	485182.823
55+100.000	3135903.375	485184.779
55+110.000	3135893.568	485186.736
55+120.000	3135883.762	485188.692
55+130.000	3135873.955	485190.649
55+140.000	3135864.148	485192.605
55+150.000	3135854.341	485194.562
55+160.000	3135844.535	485196.518
55+170.000	3135834.728	485198.475
55+180.000	3135824.921	485200.431
55+190.000	3135815.115	485202.388
55+200.000	3135805.308	485204.344
55+210.000	3135795.501	485206.301
55+220.000	3135785.694	485208.257
55+230.000	3135775.888	485210.214
55+240.000	3135766.081	485212.17
55+250.000	3135756.274	485214.127
55+260.000	3135746.467	485216.083
55+270.000	3135736.661	485218.04
55+280.000	3135726.854	485219.996
55+290.000	3135717.047	485221.953
55+300.000	3135707.24	485223.909
55+310.000	3135697.434	485225.866
55+320.000	3135687.627	485227.822
55+330.000	3135677.82	485229.779
55+340.000	3135668.014	485231.735
55+350.000	3135658.207	485233.692
55+360.000	3135648.4	485235.648

Station	Northing	Easting
55+370.000	3135638.593	485237.605
55+380.000	3135628.787	485239.561
55+390.000	3135618.98	485241.518
55+400.000	3135609.173	485243.475
55+410.000	3135599.366	485245.431
55+420.000	3135589.56	485247.388
55+430.000	3135579.753	485249.344
55+440.000	3135569.946	485251.301
55+450.000	3135560.139	485253.257
55+460.000	3135550.333	485255.214
55+470.000	3135540.526	485257.17
55+480.000	3135530.719	485259.127
55+490.000	3135520.912	485261.083
55+500.000	3135511.106	485263.04
55+510.000	3135501.299	485264.996
55+520.000	3135491.492	485266.953
55+530.000	3135481.686	485268.909
55+540.000	3135471.879	485270.866
55+550.000	3135462.072	485272.822
55+560.000	3135452.265	485274.779
55+570.000	3135442.459	485276.735
55+580.000	3135432.652	485278.692
55+590.000	3135422.845	485280.648
55+600.000	3135413.038	485282.605
55+610.000	3135403.232	485284.561
55+620.000	3135393.425	485286.518
55+630.000	3135383.618	485288.474
55+640.000	3135373.811	485290.431
55+650.000	3135364.005	485292.387
55+660.000	3135354.198	485294.344
55+670.000	3135344.391	485296.3
55+680.000	3135334.584	485298.257
55+690.000	3135324.778	485300.213
55+700.000	3135314.971	485302.17
55+710.000	3135305.164	485304.126
55+720.000	3135295.358	485306.083
55+730.000	3135285.551	485308.039
55+740.000	3135275.744	485309.996
55+750.000	3135265.937	485311.952
55+760.000	3135256.131	485313.909
55+770.000	3135246.324	485315.865
55+780.000	3135236.517	485317.822
55+790.000	3135226.71	485319.778
55+800.000	3135216.904	485321.735
55+810.000	3135207.097	485323.691
55+820.000	3135197.29	485325.648
55+830.000	3135187.483	485327.604
55+840.000	3135177.677	485329.561
55+850.000	3135167.87	485331.517

Station	Northing	Easting
55+860.000	3135158.063	485333.474
55+870.000	3135148.256	485335.43
55+880.000	3135138.45	485337.387
55+890.000	3135128.643	485339.343
55+900.000	3135118.836	485341.3
55+910.000	3135109.03	485343.256
55+920.000	3135099.223	485345.213
55+930.000	3135089.416	485347.169
55+940.000	3135079.609	485349.126
55+950.000	3135069.803	485351.082
55+960.000	3135059.996	485353.039
55+970.000	3135050.189	485354.995
55+980.000	3135040.382	485356.952
55+990.000	3135030.576	485358.908
56+000.000	3135020.769	485360.865
56+010.000	3135010.962	485362.821
56+020.000	3135001.155	485364.778
56+030.000	3134991.349	485366.734
56+040.000	3134981.542	485368.691
56+050.000	3134971.735	485370.647
56+060.000	3134961.928	485372.604
56+070.000	3134952.122	485374.56
56+080.000	3134942.315	485376.517
56+090.000	3134932.508	485378.473
56+100.000	3134922.702	485380.43
56+110.000	3134912.895	485382.386
56+120.000	3134903.088	485384.343
56+130.000	3134893.281	485386.299
56+140.000	3134883.475	485388.256
56+150.000	3134873.668	485390.212
56+160.000	3134863.861	485392.169
56+170.000	3134854.054	485394.125
56+180.000	3134844.248	485396.082
56+190.000	3134834.441	485398.038
56+200.000	3134824.634	485399.995
56+210.000	3134814.827	485401.951
56+220.000	3134805.021	485403.908
56+230.000	3134795.214	485405.864
56+240.000	3134785.407	485407.821
56+250.000	3134775.6	485409.777
56+260.000	3134765.794	485411.734
56+270.000	3134755.987	485413.691
56+280.000	3134746.18	485415.647
56+290.000	3134736.374	485417.604
56+300.000	3134726.567	485419.56
56+310.000	3134716.76	485421.517
56+320.000	3134706.953	485423.473
56+330.000	3134697.147	485425.43
56+340.000	3134687.34	485427.386

Station	Northing	Easting
56+350.000	3134677.533	485429.343
56+360.000	3134667.726	485431.299
56+370.000	3134657.92	485433.256
56+380.000	3134648.113	485435.212
56+390.000	3134638.306	485437.169
56+400.000	3134628.499	485439.125
56+410.000	3134618.693	485441.082
56+420.000	3134608.886	485443.038
56+430.000	3134599.079	485444.995
56+440.000	3134589.272	485446.951
56+450.000	3134579.466	485448.908
56+460.000	3134569.659	485450.864
56+470.000	3134559.852	485452.821
56+480.000	3134550.046	485454.777
56+490.000	3134540.239	485456.734
56+500.000	3134530.432	485458.69
56+510.000	3134520.625	485460.647
56+520.000	3134510.819	485462.603
56+530.000	3134501.012	485464.56
56+540.000	3134491.205	485466.516
56+550.000	3134481.398	485468.473
56+560.000	3134471.592	485470.429
56+570.000	3134461.785	485472.386
56+580.000	3134451.978	485474.342
56+590.000	3134442.171	485476.299
56+600.000	3134432.365	485478.255
56+610.000	3134422.558	485480.212
56+620.000	3134412.751	485482.168
56+630.000	3134402.944	485484.125
56+640.000	3134393.138	485486.081
56+650.000	3134383.331	485488.038
56+660.000	3134373.524	485489.994
56+670.000	3134363.718	485491.951
56+680.000	3134353.911	485493.907
56+690.000	3134344.104	485495.864
56+700.000	3134334.297	485497.82
56+710.000	3134324.491	485499.777
56+720.000	3134314.684	485501.733
56+730.000	3134304.877	485503.69
56+740.000	3134295.07	485505.646
56+750.000	3134285.264	485507.603
56+760.000	3134275.457	485509.559
56+770.000	3134265.65	485511.516
56+780.000	3134255.843	485513.472
56+790.000	3134246.037	485515.429
56+800.000	3134236.23	485517.385
56+810.000	3134226.423	485519.342
56+820.000	3134216.616	485521.298
56+830.000	3134206.81	485523.255

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEBRUK INTERNATIONAL (PVT) LTD
2nd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	28 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/28

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
56+840.000	3134197.003	485525.211
56+850.000	3134187.196	485527.168
56+860.000	3134177.39	485529.124
56+870.000	3134167.583	485531.081
56+880.000	3134157.776	485533.037
56+890.000	3134147.969	485534.994
56+900.000	3134138.163	485536.95
56+910.000	3134128.356	485538.907
56+920.000	3134118.549	485540.863
56+930.000	3134108.742	485542.82
56+940.000	3134098.936	485544.776
56+950.000	3134089.129	485546.733
56+960.000	3134079.322	485548.689
56+970.000	3134069.515	485550.646
56+980.000	3134059.709	485552.602
56+990.000	3134049.902	485554.559
57+000.000	3134040.095	485556.515
57+010.000	3134030.288	485558.472
57+020.000	3134020.482	485560.428
57+030.000	3134010.675	485562.385
57+040.000	3134000.868	485564.341
57+050.000	3133991.062	485566.298
57+060.000	3133981.255	485568.254
57+070.000	3133971.448	485570.211
57+080.000	3133961.641	485572.167
57+090.000	3133951.835	485574.124
57+100.000	3133942.028	485576.08
57+110.000	3133932.221	485578.037
57+120.000	3133922.414	485579.994
57+130.000	3133912.608	485581.95
57+140.000	3133902.801	485583.907
57+150.000	3133892.994	485585.863
57+160.000	3133883.187	485587.82
57+170.000	3133873.381	485589.776
57+180.000	3133863.574	485591.733
57+190.000	3133853.767	485593.689
57+200.000	3133843.96	485595.646
57+210.000	3133834.154	485597.602
57+220.000	3133824.347	485599.559
57+230.000	3133814.54	485601.515
57+240.000	3133804.734	485603.472
57+250.000	3133794.927	485605.428
57+260.000	3133785.12	485607.385
57+270.000	3133775.313	485609.341
57+280.000	3133765.507	485611.298
57+290.000	3133755.7	485613.254
57+300.000	3133745.893	485615.211
57+310.000	3133736.086	485617.167
57+320.000	3133726.28	485619.124

Station	Northing	Easting
57+330.000	3133716.473	485621.08
57+340.000	3133706.666	485623.037
57+350.000	3133696.859	485624.993
57+360.000	3133687.053	485626.95
57+370.000	3133677.246	485628.906
57+380.000	3133667.439	485630.863
57+390.000	3133657.632	485632.819
57+400.000	3133647.826	485634.776
57+410.000	3133638.019	485636.732
57+420.000	3133628.212	485638.689
57+430.000	3133618.406	485640.645
57+440.000	3133608.599	485642.602
57+450.000	3133598.792	485644.558
57+460.000	3133588.985	485646.515
57+470.000	3133579.179	485648.471
57+480.000	3133569.372	485650.428
57+490.000	3133559.565	485652.384
57+500.000	3133549.758	485654.341
57+510.000	3133539.952	485656.297
57+520.000	3133530.145	485658.254
57+530.000	3133520.338	485660.21
57+540.000	3133510.531	485662.167
57+550.000	3133500.725	485664.123
57+560.000	3133490.918	485666.08
57+570.000	3133481.111	485668.036
57+580.000	3133471.304	485669.993
57+590.000	3133461.498	485671.949
57+600.000	3133451.691	485673.906
57+610.000	3133441.884	485675.862
57+620.000	3133432.078	485677.819
57+630.000	3133422.271	485679.775
57+640.000	3133412.464	485681.732
57+650.000	3133402.657	485683.688
57+660.000	3133392.851	485685.645
57+670.000	3133383.044	485687.601
57+680.000	3133373.237	485689.558
57+690.000	3133363.43	485691.514
57+700.000	3133353.624	485693.471
57+710.000	3133343.817	485695.427
57+720.000	3133334.01	485697.384
57+730.000	3133324.203	485699.34
57+740.000	3133314.397	485701.297
57+750.000	3133304.59	485703.253
57+760.000	3133294.783	485705.21
57+770.000	3133284.976	485707.166
57+780.000	3133275.17	485709.123
57+790.000	3133265.363	485711.079
57+800.000	3133255.556	485713.036
57+810.000	3133245.75	485714.992

Station	Northing	Easting
57+820.000	3133235.943	485716.949
57+830.000	3133226.136	485718.905
57+840.000	3133216.329	485720.862
57+850.000	3133206.523	485722.818
57+860.000	3133196.716	485724.775
57+870.000	3133186.909	485726.731
57+880.000	3133177.102	485728.688
57+890.000	3133167.296	485730.644
57+900.000	3133157.489	485732.601
57+910.000	3133147.682	485734.557
57+920.000	3133137.875	485736.514
57+930.000	3133128.069	485738.47
57+940.000	3133118.262	485740.427
57+950.000	3133108.455	485742.383
57+960.000	3133098.648	485744.34
57+970.000	3133088.842	485746.296
57+980.000	3133079.035	485748.253
57+990.000	3133069.228	485750.21
58+000.000	3133059.422	485752.166
58+010.000	3133049.615	485754.123
58+020.000	3133039.808	485756.079
58+030.000	3133030.001	485758.036
58+040.000	3133020.195	485759.992
58+050.000	3133010.388	485761.949
58+060.000	3133000.581	485763.905
58+070.000	3132990.774	485765.862
58+080.000	3132980.968	485767.818
58+090.000	3132971.161	485769.775
58+100.000	3132961.354	485771.731
58+110.000	3132951.547	485773.688
58+120.000	3132941.741	485775.644
58+130.000	3132931.934	485777.601
58+140.000	3132922.127	485779.557
58+150.000	3132912.32	485781.514
58+160.000	3132902.514	485783.47
58+170.000	3132892.707	485785.427
58+180.000	3132882.9	485787.383
58+190.000	3132873.094	485789.34
58+200.000	3132863.287	485791.296
58+210.000	3132853.48	485793.253
58+220.000	3132843.673	485795.209
58+230.000	3132833.867	485797.166
58+240.000	3132824.06	485799.122
58+250.000	3132814.253	485801.079
58+260.000	3132804.446	485803.035
58+270.000	3132794.64	485804.992
58+280.000	3132784.833	485806.948
58+290.000	3132775.026	485808.905
58+300.000	3132765.219	485810.861

Station	Northing	Easting
58+310.000	3132755.413	485812.818
58+320.000	3132745.606	485814.774
58+330.000	3132735.799	485816.731
58+340.000	3132725.992	485818.687
58+350.000	3132716.186	485820.644
58+360.000	3132706.379	485822.6
58+370.000	3132696.572	485824.557
58+380.000	3132686.766	485826.513
58+390.000	3132676.959	485828.47
58+400.000	3132667.152	485830.426
58+410.000	3132657.345	485832.383
58+420.000	3132647.539	485834.339
58+430.000	3132637.732	485836.296
58+440.000	3132627.925	485838.252
58+450.000	3132618.118	485840.209
58+460.000	3132608.312	485842.165
58+470.000	3132598.505	485844.122
58+480.000	3132588.698	485846.078
58+490.000	3132578.891	485848.035
58+500.000	3132569.085	485849.991
58+510.000	3132559.278	485851.948
58+520.000	3132549.471	485853.904
58+530.000	3132539.664	485855.861
58+540.000	3132529.858	485857.817
58+550.000	3132520.051	485859.774
58+560.000	3132510.244	485861.73
58+570.000	3132500.438	485863.687
58+580.000	3132490.631	485865.643
58+590.000	3132480.824	485867.6
58+600.000	3132471.017	485869.556
58+610.000	3132461.211	485871.516
58+620.000	3132451.407	485873.487
58+630.000	3132441.606	485875.471
58+640.000	3132431.807	485877.466
58+650.000	3132422.011	485879.474
58+660.000	3132412.217	485881.495
58+670.000	3132402.426	485883.527
58+680.000	3132392.637	485885.572
58+690.000	3132382.851	485887.629
58+700.000	3132373.067	485889.698
58+710.000	3132363.286	485891.78
58+720.000	3132353.508	485893.873
58+730.000	3132343.732	485895.979
58+740.000	3132333.959	485898.097
58+750.000	3132324.189	485900.228
58+760.000	3132314.421	485902.37
58+770.000	3132304.656	485904.525
58+780.000	3132294.894	485906.692
58+790.000	3132285.134	485908.871

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR *CONSTRUCTION OF ROAD FROM* NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	29 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV-2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/29

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
58+800.000	3132275.377	485911.062
58+810.000	3132265.623	485913.266
58+820.000	3132255.871	485915.481
58+830.000	3132246.123	485917.709
58+840.000	3132236.377	485919.949
58+850.000	3132226.634	485922.202
58+860.000	3132216.893	485924.466
58+870.000	3132207.156	485926.743
58+880.000	3132197.421	485929.032
58+890.000	3132187.69	485931.333
58+900.000	3132177.961	485933.646
58+910.000	3132168.235	485935.971
58+920.000	3132158.512	485938.308
58+930.000	3132148.792	485940.658
58+940.000	3132139.075	485943.02
58+950.000	3132129.361	485945.394
58+960.000	3132119.65	485947.78
58+970.000	3132109.941	485950.178
58+980.000	3132100.236	485952.588
58+990.000	3132090.534	485955.011
59+000.000	3132080.835	485957.445
59+010.000	3132071.139	485959.892
59+020.000	3132061.446	485962.351
59+030.000	3132051.756	485964.821
59+040.000	3132042.069	485967.305
59+050.000	3132032.385	485969.8
59+060.000	3132022.705	485972.307
59+070.000	3132013.027	485974.826
59+080.000	3132003.353	485977.358
59+090.000	3131993.682	485979.901
59+100.000	3131984.014	485982.457
59+110.000	3131974.349	485985.024
59+120.000	3131964.688	485987.604
59+130.000	3131955.03	485990.196
59+140.000	3131945.375	485992.8
59+150.000	3131935.723	485995.416
59+160.000	3131926.074	485998.044
59+170.000	3131916.429	486000.684
59+180.000	3131906.787	486003.336
59+190.000	3131897.149	486006
59+200.000	3131887.513	486008.677
59+210.000	3131877.881	486011.365
59+220.000	3131868.253	486014.065
59+230.000	3131858.628	486016.778
59+240.000	3131849.006	486019.502
59+250.000	3131839.388	486022.238
59+260.000	3131829.773	486024.987
59+270.000	3131820.161	486027.747
59+280.000	3131810.553	486030.52

Station	Northing	Easting
59+290.000	3131800.949	486033.304
59+300.000	3131791.348	486036.101
59+310.000	3131781.75	486038.909
59+320.000	3131772.156	486041.73
59+330.000	3131762.566	486044.562
59+340.000	3131752.979	486047.406
59+350.000	3131743.396	486050.263
59+360.000	3131733.816	486053.131
59+370.000	3131724.24	486056.012
59+380.000	3131714.667	486058.904
59+390.000	3131705.098	486061.808
59+400.000	3131695.533	486064.725
59+410.000	3131685.971	486067.653
59+420.000	3131676.413	486070.593
59+430.000	3131666.859	486073.545
59+440.000	3131657.308	486076.509
59+450.000	3131647.761	486079.485
59+460.000	3131638.218	486082.473
59+470.000	3131628.679	486085.473
59+480.000	3131619.143	486088.485
59+490.000	3131609.611	486091.508
59+500.000	3131600.083	486094.544
59+510.000	3131590.559	486097.591
59+520.000	3131581.038	486100.651
59+530.000	3131571.521	486103.722
59+540.000	3131562.009	486106.805
59+550.000	3131552.5	486109.9
59+560.000	3131542.995	486113.007
59+570.000	3131533.493	486116.126
59+580.000	3131523.996	486119.257
59+590.000	3131514.503	486122.4
59+600.000	3131505.013	486125.554
59+610.000	3131495.528	486128.72
59+620.000	3131486.046	486131.898
59+630.000	3131476.569	486135.088
59+640.000	3131467.095	486138.29
59+650.000	3131457.626	486141.504
59+660.000	3131448.16	486144.73
59+670.000	3131438.699	486147.967
59+680.000	3131429.241	486151.216
59+690.000	3131419.788	486154.477
59+700.000	3131410.339	486157.75
59+710.000	3131400.893	486161.035
59+720.000	3131391.452	486164.331
59+730.000	3131382.015	486167.639
59+740.000	3131372.583	486170.959
59+750.000	3131363.154	486174.291
59+760.000	3131353.73	486177.635
59+770.000	3131344.309	486180.99

Station	Northing	Easting
59+780.000	3131334.893	486184.357
59+790.000	3131325.481	486187.736
59+800.000	3131316.074	486191.127
59+810.000	3131306.67	486194.529
59+820.000	3131297.271	486197.944
59+830.000	3131287.876	486201.367
59+840.000	3131278.48	486204.792
59+850.000	3131269.085	486208.217
59+860.000	3131259.69	486211.642
59+870.000	3131250.295	486215.066
59+880.000	3131240.899	486218.491
59+890.000	3131231.504	486221.916
59+900.000	3131222.109	486225.34
59+910.000	3131212.714	486228.765
59+920.000	3131203.318	486232.19
59+930.000	3131193.923	486235.615
59+940.000	3131184.528	486239.039
59+950.000	3131175.132	486242.464
59+960.000	3131165.737	486245.889
59+970.000	3131156.342	486249.314
59+980.000	3131146.947	486252.738
59+990.000	3131137.551	486256.163
60+000.000	3131128.156	486259.588
60+010.000	3131118.761	486263.012
60+020.000	3131109.365	486266.437
60+030.000	3131099.97	486269.862
60+040.000	3131090.575	486273.287
60+050.000	3131081.18	486276.711
60+060.000	3131071.784	486280.136
60+070.000	3131062.389	486283.561
60+080.000	3131052.994	486286.986
60+090.000	3131043.599	486290.41
60+100.000	3131034.203	486293.835
60+110.000	3131024.808	486297.26
60+120.000	3131015.413	486300.685
60+130.000	3131006.017	486304.109
60+140.000	3130996.622	486307.534
60+150.000	3130987.227	486310.959
60+160.000	3130977.832	486314.383
60+170.000	3130968.436	486317.808
60+180.000	3130959.041	486321.233
60+190.000	3130949.646	486324.658
60+200.000	3130940.25	486328.082
60+210.000	3130930.855	486331.507
60+220.000	3130921.46	486334.932
60+230.000	3130912.065	486338.357
60+240.000	3130902.669	486341.781
60+250.000	3130893.274	486345.206
60+260.000	3130883.879	486348.631

Station	Northing	Easting
60+270.000	3130874.484	486352.055
60+280.000	3130865.088	486355.48
60+290.000	3130855.693	486358.905
60+300.000	3130846.298	486362.33
60+310.000	3130836.902	486365.754
60+320.000	3130827.507	486369.179
60+330.000	3130818.112	486372.604
60+340.000	3130808.717	486376.029
60+350.000	3130799.321	486379.453
60+360.000	3130789.926	486382.878
60+370.000	3130780.531	486386.303
60+380.000	3130771.136	486389.728
60+390.000	3130761.74	486393.152
60+400.000	3130752.345	486396.577
60+410.000	3130742.95	486400.002
60+420.000	3130733.554	486403.426
60+430.000	3130724.159	486406.851
60+440.000	3130714.764	486410.276
60+450.000	3130705.369	486413.701
60+460.000	3130695.973	486417.125
60+470.000	3130686.578	486420.55
60+480.000	3130677.183	486423.975
60+490.000	3130667.787	486427.4
60+500.000	3130658.392	486430.824
60+510.000	3130648.997	486434.249
60+520.000	3130639.602	486437.674
60+530.000	3130630.206	486441.098
60+540.000	3130620.811	486444.523
60+550.000	3130611.416	486447.948
60+560.000	3130602.021	486451.373
60+570.000	3130592.625	486454.797
60+580.000	3130583.23	486458.222
60+590.000	3130573.835	486461.647
60+600.000	3130564.439	486465.072
60+610.000	3130555.044	486468.496
60+620.000	3130545.649	486471.921
60+630.000	3130536.254	486475.346
60+640.000	3130526.858	486478.77
60+650.000	3130517.463	486482.195
60+660.000	3130508.068	486485.62
60+670.000	3130498.672	486489.045
60+680.000	3130489.277	486492.469
60+690.000	3130479.882	486495.894
60+700.000	3130470.487	486499.319
60+710.000	3130461.091	486502.744
60+720.000	3130451.696	486506.168
60+730.000	3130442.301	486509.593
60+740.000	3130432.906	486513.018
60+750.000	3130423.51	486516.443

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZIBERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	30 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/30

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
60+760.000	3130414.115	486519.867
60+770.000	3130404.72	486523.292
60+780.000	3130395.324	486526.717
60+790.000	3130385.929	486530.141
60+800.000	3130376.534	486533.566
60+810.000	3130367.139	486536.991
60+820.000	3130357.743	486540.416
60+830.000	3130348.348	486543.84
60+840.000	3130338.953	486547.265
60+850.000	3130329.558	486550.69
60+860.000	3130320.162	486554.115
60+870.000	3130310.767	486557.539
60+880.000	3130301.372	486560.964
60+890.000	3130291.976	486564.389
60+900.000	3130282.581	486567.813
60+910.000	3130273.186	486571.238
60+920.000	3130263.791	486574.663
60+930.000	3130254.395	486578.088
60+940.000	3130245	486581.512
60+950.000	3130235.605	486584.937
60+960.000	3130226.209	486588.362
60+970.000	3130216.814	486591.787
60+980.000	3130207.419	486595.211
60+990.000	3130198.024	486598.636
61+000.000	3130188.628	486602.061
61+010.000	3130179.233	486605.486
61+020.000	3130169.838	486608.91
61+030.000	3130160.443	486612.335
61+040.000	3130151.047	486615.76
61+050.000	3130141.652	486619.184
61+060.000	3130132.257	486622.609
61+070.000	3130122.861	486626.034
61+080.000	3130113.466	486629.459
61+090.000	3130104.071	486632.883
61+100.000	3130094.676	486636.308
61+110.000	3130085.28	486639.733
61+120.000	3130075.885	486643.158
61+130.000	3130066.49	486646.582
61+140.000	3130057.094	486650.007
61+150.000	3130047.699	486653.432
61+160.000	3130038.304	486656.856
61+170.000	3130028.909	486660.281
61+180.000	3130019.513	486663.706
61+190.000	3130010.118	486667.131
61+200.000	3130000.723	486670.555
61+210.000	3129991.328	486673.98
61+220.000	3129981.932	486677.405
61+230.000	3129972.537	486680.83
61+240.000	3129963.142	486684.254

Station	Northing	Easting
61+250.000	3129953.746	486687.679
61+260.000	3129944.351	486691.104
61+270.000	3129934.956	486694.528
61+280.000	3129925.561	486697.953
61+290.000	3129916.165	486701.378
61+300.000	3129906.77	486704.803
61+310.000	3129897.375	486708.227
61+320.000	3129887.98	486711.652
61+330.000	3129878.584	486715.077
61+340.000	3129869.189	486718.502
61+350.000	3129859.794	486721.926
61+360.000	3129850.398	486725.351
61+370.000	3129841.003	486728.776
61+380.000	3129831.608	486732.201
61+390.000	3129822.213	486735.625
61+400.000	3129812.817	486739.05
61+410.000	3129803.422	486742.475
61+420.000	3129794.027	486745.899
61+430.000	3129784.631	486749.324
61+440.000	3129775.236	486752.749
61+450.000	3129765.841	486756.174
61+460.000	3129756.446	486759.598
61+470.000	3129747.05	486763.023
61+480.000	3129737.655	486766.448
61+490.000	3129728.26	486769.873
61+500.000	3129718.865	486773.297
61+510.000	3129709.469	486776.722
61+520.000	3129700.074	486780.147
61+530.000	3129690.679	486783.571
61+540.000	3129681.283	486786.996
61+550.000	3129671.888	486790.421
61+560.000	3129662.493	486793.846
61+570.000	3129653.098	486797.27
61+580.000	3129643.702	486800.695
61+590.000	3129634.307	486804.12
61+600.000	3129624.912	486807.545
61+610.000	3129615.516	486810.969
61+620.000	3129606.121	486814.394
61+630.000	3129596.726	486817.819
61+640.000	3129587.331	486821.244
61+650.000	3129577.935	486824.668
61+660.000	3129568.54	486828.093
61+670.000	3129559.145	486831.518
61+680.000	3129549.75	486834.942
61+690.000	3129540.354	486838.367
61+700.000	3129530.959	486841.792
61+710.000	3129521.564	486845.217
61+720.000	3129512.168	486848.641
61+730.000	3129502.773	486852.066

Station	Northing	Easting
61+740.000	3129493.378	486855.491
61+750.000	3129483.983	486858.916
61+760.000	3129474.587	486862.34
61+770.000	3129465.192	486865.765
61+780.000	3129455.797	486869.19
61+790.000	3129446.402	486872.614
61+800.000	3129437.006	486876.039
61+810.000	3129427.611	486879.464
61+820.000	3129418.216	486882.889
61+830.000	3129408.82	486886.313
61+840.000	3129399.425	486889.738
61+850.000	3129390.03	486893.163
61+860.000	3129380.635	486896.588
61+870.000	3129371.239	486900.012
61+880.000	3129361.844	486903.437
61+890.000	3129352.449	486906.862
61+900.000	3129343.053	486910.286
61+910.000	3129333.658	486913.711
61+920.000	3129324.263	486917.136
61+930.000	3129314.868	486920.561
61+940.000	3129305.472	486923.985
61+950.000	3129296.077	486927.41
61+960.000	3129286.682	486930.835
61+970.000	3129277.287	486934.26
61+980.000	3129267.891	486937.684
61+990.000	3129258.496	486941.109
62+000.000	3129249.101	486944.534
62+010.000	3129239.705	486947.959
62+020.000	3129230.31	486951.383
62+030.000	3129220.915	486954.808
62+040.000	3129211.52	486958.233
62+050.000	3129202.124	486961.657
62+060.000	3129192.729	486965.082
62+070.000	3129183.334	486968.507
62+080.000	3129173.938	486971.932
62+090.000	3129164.543	486975.356
62+100.000	3129155.148	486978.781
62+110.000	3129145.753	486982.206
62+120.000	3129136.357	486985.631
62+130.000	3129126.962	486989.055
62+140.000	3129117.567	486992.48
62+150.000	3129108.172	486995.905
62+160.000	3129098.776	486999.329
62+170.000	3129089.381	487002.754
62+180.000	3129079.986	487006.179
62+190.000	3129070.59	487009.604
62+200.000	3129061.195	487013.028
62+210.000	3129051.8	487016.453
62+220.000	3129042.405	487019.878

Station	Northing	Easting
62+230.000	3129033.009	487023.303
62+240.000	3129023.614	487026.727
62+250.000	3129014.219	487030.152
62+260.000	3129004.824	487033.577
62+270.000	3128995.428	487037.002
62+280.000	3128986.033	487040.426
62+290.000	3128976.638	487043.851
62+300.000	3128967.242	487047.276
62+310.000	3128957.847	487050.7
62+320.000	3128948.452	487054.125
62+330.000	3128939.057	487057.55
62+340.000	3128929.661	487060.975
62+350.000	3128920.266	487064.399
62+360.000	3128910.871	487067.824
62+370.000	3128901.475	487071.249
62+380.000	3128892.08	487074.674
62+390.000	3128882.685	487078.098
62+400.000	3128873.29	487081.523
62+410.000	3128863.894	487084.948
62+420.000	3128854.499	487088.372
62+430.000	3128845.104	487091.797
62+440.000	3128835.709	487095.222
62+450.000	3128826.313	487098.647
62+460.000	3128816.918	487102.071
62+470.000	3128807.523	487105.496
62+480.000	3128798.127	487108.921
62+490.000	3128788.732	487112.346
62+500.000	3128779.337	487115.77
62+510.000	3128769.942	487119.195
62+520.000	3128760.546	487122.62
62+530.000	3128751.151	487126.045
62+540.000	3128741.756	487129.469
62+550.000	3128732.36	487132.894
62+560.000	3128722.965	487136.319
62+570.000	3128713.57	487139.743
62+580.000	3128704.175	487143.168
62+590.000	3128694.779	487146.593
62+600.000	3128685.384	487150.018
62+610.000	3128675.989	487153.442
62+620.000	3128666.594	487156.867
62+630.000	3128657.198	487160.292
62+640.000	3128647.803	487163.717
62+650.000	3128638.408	487167.141
62+660.000	3128629.012	487170.566
62+670.000	3128619.617	487173.991
62+680.000	3128610.222	487177.415
62+690.000	3128600.827	487180.84
62+700.000	3128591.431	487184.265
62+710.000	3128582.036	487187.69

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	31 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/31

Alignment Incremental Station Report

NOK KUNDI MASH KHEL

Start: 0+000.00, End: 102+950.726

Station Increment: 10.00

Station	Northing	Easting
62+720.000	3128572.641	487191.114
62+730.000	3128563.246	487194.539
62+740.000	3128553.85	487197.964
62+750.000	3128544.455	487201.389
62+760.000	3128535.06	487204.813
62+770.000	3128525.664	487208.238
62+780.000	3128516.269	487211.663
62+790.000	3128506.874	487215.087
62+800.000	3128497.479	487218.512
62+810.000	3128488.083	487221.937
62+820.000	3128478.688	487225.362
62+830.000	3128469.293	487228.786
62+840.000	3128459.897	487232.211
62+850.000	3128450.502	487235.636
62+860.000	3128441.107	487239.061
62+870.000	3128431.712	487242.485
62+880.000	3128422.316	487245.91
62+890.000	3128412.921	487249.335
62+900.000	3128403.526	487252.76
62+910.000	3128394.131	487256.184
62+920.000	3128384.735	487259.609
62+930.000	3128375.34	487263.034
62+940.000	3128365.945	487266.458
62+950.000	3128356.549	487269.883
62+960.000	3128347.154	487273.308
62+970.000	3128337.759	487276.733
62+980.000	3128328.364	487280.157
62+990.000	3128318.968	487283.582
63+000.000	3128309.573	487287.007
63+010.000	3128300.178	487290.432
63+020.000	3128290.782	487293.856
63+030.000	3128281.387	487297.281
63+040.000	3128271.992	487300.706
63+050.000	3128262.597	487304.13
63+060.000	3128253.201	487307.555
63+070.000	3128243.806	487310.98
63+080.000	3128234.411	487314.405
63+090.000	3128225.016	487317.829
63+100.000	3128215.62	487321.254
63+110.000	3128206.225	487324.679
63+120.000	3128196.83	487328.104
63+130.000	3128187.434	487331.528
63+140.000	3128178.039	487334.953
63+150.000	3128168.644	487338.378
63+160.000	3128159.249	487341.803
63+170.000	3128149.853	487345.227
63+180.000	3128140.458	487348.652
63+190.000	3128131.063	487352.077
63+200.000	3128121.668	487355.501

Station	Northing	Easting
63+210.000	3128112.272	487358.926
63+220.000	3128102.877	487362.351
63+230.000	3128093.482	487365.776
63+240.000	3128084.086	487369.2
63+250.000	3128074.691	487372.625
63+260.000	3128065.296	487376.05
63+270.000	3128055.901	487379.475
63+280.000	3128046.505	487382.899
63+290.000	3128037.11	487386.324
63+300.000	3128027.715	487389.749
63+310.000	3128018.319	487393.173
63+320.000	3128008.924	487396.598
63+330.000	3127999.529	487400.023
63+340.000	3127990.134	487403.448
63+350.000	3127980.738	487406.872
63+360.000	3127971.343	487410.297
63+370.000	3127961.948	487413.722
63+380.000	3127952.553	487417.147
63+390.000	3127943.157	487420.571
63+400.000	3127933.762	487423.996
63+410.000	3127924.367	487427.421
63+420.000	3127914.971	487430.845
63+430.000	3127905.576	487434.27
63+440.000	3127896.181	487437.695
63+450.000	3127886.786	487441.12
63+460.000	3127877.39	487444.544
63+470.000	3127867.995	487447.969
63+480.000	3127858.6	487451.394
63+490.000	3127849.204	487454.819
63+500.000	3127839.809	487458.243
63+510.000	3127830.414	487461.668
63+520.000	3127821.019	487465.093
63+530.000	3127811.623	487468.518
63+540.000	3127802.228	487471.942
63+550.000	3127792.833	487475.367
63+560.000	3127783.438	487478.792
63+570.000	3127774.042	487482.216
63+580.000	3127764.647	487485.641
63+590.000	3127755.252	487489.066
63+600.000	3127745.856	487492.491
63+610.000	3127736.461	487495.915
63+620.000	3127727.066	487499.34
63+630.000	3127717.671	487502.765
63+640.000	3127708.275	487506.19
63+650.000	3127698.88	487509.614
63+660.000	3127689.485	487513.039
63+670.000	3127680.09	487516.464
63+680.000	3127670.694	487519.888
63+690.000	3127661.299	487523.313

Station	Northing	Easting
63+700.000	3127651.904	487526.738
63+710.000	3127642.508	487530.163
63+720.000	3127633.113	487533.587
63+730.000	3127623.718	487537.012
63+740.000	3127614.323	487540.437
63+750.000	3127604.927	487543.862
63+760.000	3127595.532	487547.286
63+770.000	3127586.137	487550.711
63+780.000	3127576.741	487554.136
63+790.000	3127567.346	487557.561
63+800.000	3127557.951	487560.985
63+810.000	3127548.556	487564.41
63+820.000	3127539.16	487567.835
63+830.000	3127529.765	487571.259
63+840.000	3127520.37	487574.684
63+850.000	3127510.975	487578.109
63+860.000	3127501.579	487581.534
63+870.000	3127492.184	487584.958
63+880.000	3127482.789	487588.383
63+890.000	3127473.393	487591.808
63+900.000	3127463.998	487595.233
63+910.000	3127454.603	487598.657
63+920.000	3127445.208	487602.082
63+930.000	3127435.812	487605.507
63+940.000	3127426.417	487608.931
63+950.000	3127417.022	487612.356
63+960.000	3127407.626	487615.781
63+970.000	3127398.231	487619.206
63+980.000	3127388.836	487622.63
63+990.000	3127379.441	487626.055
64+000.000	3127370.045	487629.48
64+010.000	3127360.65	487632.905
64+020.000	3127351.255	487636.329
64+030.000	3127341.86	487639.754
64+040.000	3127332.464	487643.179
64+050.000	3127323.069	487646.603
64+060.000	3127313.674	487650.028
64+070.000	3127304.278	487653.453
64+080.000	3127294.883	487656.878
64+090.000	3127285.488	487660.302
64+100.000	3127276.093	487663.727
64+110.000	3127266.697	487667.152
64+120.000	3127257.302	487670.577
64+130.000	3127247.907	487674.001
64+140.000	3127238.512	487677.426
64+150.000	3127229.116	487680.851
64+160.000	3127219.721	487684.276
64+170.000	3127210.326	487687.7
64+180.000	3127200.93	487691.125

Station	Northing	Easting
63+700.000	3127651.904	487526.738
63+710.000	3127642.508	487530.163
63+720.000	3127633.113	487533.587
63+730.000	3127623.718	487537.012
63+740.000	3127614.323	487540.437
63+750.000	3127604.927	487543.862
63+760.000	3127595.532	487547.286
63+770.000	3127586.137	487550.711
63+780.000	3127576.741	487554.136
63+790.000	3127567.346	487557.561
63+800.000	3127557.951	487560.985
63+810.000	3127548.556	487564.41
63+820.000	3127539.16	487567.835
63+830.000	3127529.765	487571.259
63+840.000	3127520.37	487574.684
63+850.000	3127510.975	487578.109
63+860.000	3127501.579	487581.534
63+870.000	3127492.184	487584.958
63+880.000	3127482.789	487588.383
63+890.000	3127473.393	487591.808
63+900.000	3127463.998	487595.233
63+910.000	3127454.603	487598.657
63+920.000	3127445.208	487602.082
63+930.000	3127435.812	487605.507
63+940.000	3127426.417	487608.931
63+950.000	3127417.022	487612.356
63+960.000	3127407.626	487615.781
63+970.000	3127398.231	487619.206
63+980.000	3127388.836	487622.63
63+990.000	3127379.441	487626.055
64+000.000	3127370.045	487629.48
64+010.000	3127360.65	487632.905
64+020.000	3127351.255	487636.329
64+030.000	3127341.86	487639.754
64+040.000	3127332.464	487643.179
64+050.000	3127323.069	487646.603
64+060.000	3127313.674	487650.028
64+070.000	3127304.278	487653.453
64+080.000	3127294.883	487656.878
64+090.000	3127285.488	487660.302
64+100.000	3127276.093	487663.727
64+110.000	3127266.697	487667.152
64+120.000	3127257.302	487670.577
64+130.000	3127247.907	487674.001
64+140.000	3127238.512	487677.426
64+150.000	3127229.116	487680.851
64+160.000	3127219.721	487684.276
64+170.000	3127210.326	487687.7
64+180.000	3127200.93	487691.125

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZIBERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938214-5, FAX: 051-4938215

IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

STATION COORDINATES DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	32 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SCD/32

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
64+680.000	3126724.344	487841.663
64+690.000	3126714.667	487844.187
64+700.000	3126704.986	487846.692
64+710.000	3126695.3	487849.178
64+720.000	3126685.609	487851.644
64+730.000	3126675.913	487854.09
64+740.000	3126666.212	487856.517
64+750.000	3126656.506	487858.925
64+760.000	3126646.795	487861.314
64+770.000	3126637.08	487863.683
64+780.000	3126627.36	487866.032
64+790.000	3126617.635	487868.362
64+800.000	3126607.906	487870.673
64+810.000	3126598.172	487872.964
64+820.000	3126588.433	487875.236
64+830.000	3126578.69	487877.488
64+840.000	3126568.943	487879.72
64+850.000	3126559.191	487881.934
64+860.000	3126549.434	487884.127
64+870.000	3126539.673	487886.302
64+880.000	3126529.908	487888.456
64+890.000	3126520.139	487890.591
64+900.000	3126510.365	487892.707
64+910.000	3126500.587	487894.803
64+920.000	3126490.805	487896.879
64+930.000	3126481.019	487898.936
64+940.000	3126471.229	487900.974
64+950.000	3126461.435	487902.991
64+960.000	3126451.636	487904.99
64+970.000	3126441.834	487906.968
64+980.000	3126432.028	487908.927
64+990.000	3126422.218	487910.866
65+000.000	3126412.404	487912.786
65+010.000	3126402.586	487914.686
65+020.000	3126392.764	487916.567
65+030.000	3126382.939	487918.427
65+040.000	3126373.11	487920.269
65+050.000	3126363.277	487922.09
65+060.000	3126353.441	487923.892
65+070.000	3126343.601	487925.674
65+080.000	3126333.757	487927.436
65+090.000	3126323.91	487929.179
65+100.000	3126314.06	487930.902
65+110.000	3126304.206	487932.605
65+120.000	3126294.349	487934.289
65+130.000	3126284.488	487935.953
65+140.000	3126274.624	487937.597
65+150.000	3126264.757	487939.222
65+160.000	3126254.887	487940.826

Station	Northing	Easting
65+170.000	3126245.013	487942.411
65+180.000	3126235.136	487943.977
65+190.000	3126225.257	487945.522
65+200.000	3126215.374	487947.048
65+210.000	3126205.488	487948.554
65+220.000	3126195.599	487950.04
65+230.000	3126185.707	487951.506
65+240.000	3126175.812	487952.953
65+250.000	3126165.914	487954.38
65+260.000	3126156.014	487955.787
65+270.000	3126146.11	487957.174
65+280.000	3126136.204	487958.541
65+290.000	3126126.296	487959.889
65+300.000	3126116.384	487961.217
65+310.000	3126106.47	487962.525
65+320.000	3126096.553	487963.813
65+330.000	3126086.634	487965.081
65+340.000	3126076.712	487966.329
65+350.000	3126066.788	487967.558
65+360.000	3126056.861	487968.767
65+370.000	3126046.932	487969.956
65+380.000	3126037.001	487971.125
65+390.000	3126027.067	487972.274
65+400.000	3126017.131	487973.403
65+410.000	3126007.193	487974.512
65+420.000	3125997.252	487975.602
65+430.000	3125987.31	487976.672
65+440.000	3125977.365	487977.721
65+450.000	3125967.418	487978.751
65+460.000	3125957.469	487979.761
65+470.000	3125947.518	487980.751
65+480.000	3125937.566	487981.721
65+490.000	3125927.611	487982.672
65+500.000	3125917.654	487983.602
65+510.000	3125907.696	487984.512
65+520.000	3125897.736	487985.403
65+530.000	3125887.774	487986.273
65+540.000	3125877.81	487987.124
65+550.000	3125867.844	487987.955
65+560.000	3125857.877	487988.766
65+570.000	3125847.909	487989.557
65+580.000	3125837.938	487990.327
65+590.000	3125827.967	487991.078
65+600.000	3125817.993	487991.809
65+610.000	3125808.019	487992.521
65+620.000	3125798.043	487993.212
65+630.000	3125788.065	487993.883
65+640.000	3125778.086	487994.534
65+650.000	3125768.106	487995.165

Station	Northing	Easting
65+660.000	3125758.125	487995.777
65+670.000	3125748.143	487996.368
65+680.000	3125738.159	487996.939
65+690.000	3125728.174	487997.491
65+700.000	3125718.188	487998.022
65+710.000	3125708.201	487998.534
65+720.000	3125698.213	487999.025
65+730.000	3125688.225	487999.497
65+740.000	3125678.235	487999.948
65+750.000	3125668.244	488000.38
65+760.000	3125658.252	488000.791
65+770.000	3125648.26	488001.183
65+780.000	3125638.267	488001.555
65+790.000	3125628.273	488001.906
65+800.000	3125618.279	488002.238
65+810.000	3125608.284	488002.55
65+820.000	3125598.288	488002.841
65+830.000	3125588.292	488003.113
65+840.000	3125578.295	488003.365
65+850.000	3125568.297	488003.596
65+860.000	3125558.3	488003.808
65+870.000	3125548.302	488004
65+880.000	3125538.303	488004.171
65+890.000	3125528.304	488004.323
65+900.000	3125518.305	488004.455
65+910.000	3125508.306	488004.566
65+920.000	3125498.306	488004.658
65+930.000	3125488.306	488004.73
65+940.000	3125478.306	488004.781
65+950.000	3125468.306	488004.813
65+960.000	3125458.307	488004.825
65+970.000	3125448.307	488004.816
65+980.000	3125438.307	488004.788
65+990.000	3125428.307	488004.74
66+000.000	3125418.307	488004.672
66+010.000	3125408.307	488004.583
66+020.000	3125398.308	488004.475
66+030.000	3125388.309	488004.347
66+040.000	3125378.31	488004.198
66+050.000	3125368.311	488004.03
66+060.000	3125358.313	488003.842
66+070.000	3125348.315	488003.633
66+080.000	3125338.318	488003.405
66+090.000	3125328.321	488003.159
66+100.000	3125318.324	488002.911
66+110.000	3125308.327	488002.662
66+120.000	3125298.33	488002.414
66+130.000	3125288.333	488002.165
66+140.000	3125278.336	488001.917

Station	Northing	Easting
66+150.000	3125268.339	488001.668
66+160.000	3125258.342	488001.42
66+170.000	3125248.346	488001.172
66+180.000	3125238.349	488000.923
66+190.000	3125228.352	488000.675
66+200.000	3125218.355	488000.426
66+210.000	3125208.358	488000.178
66+220.000	3125198.361	487999.929
66+230.000	3125188.364	487999.681
66+240.000	3125178.367	487999.432
66+250.000	3125168.37	487999.184
66+260.000	3125158.373	487998.935
66+270.000	3125148.376	487998.687
66+280.000	3125138.379	487998.438
66+290.000	3125128.383	487998.19
66+300.000	3125118.386	487997.942
66+310.000	3125108.389	487997.693
66+320.000	3125098.392	487997.445
66+330.000	3125088.395	487997.196
66+340.000	3125078.398	487996.948
66+350.000	3125068.401	487996.699
66+360.000	3125058.404	487996.451
66+370.000	3125048.407	487996.203
66+380.000	3125038.41	487995.972
66+390.000	3125028.412	487995.76
66+400.000	3125018.414	487995.568
66+410.000	3125008.415	487995.397
66+420.000	3124998.417	487995.245
66+430.000	3124988.417	487995.113
66+440.000	3124978.418	487995.001
66+450.000	3124968.419	487994.91
66+460.000	3124958.419	487994.838
66+470.000	3124948.419	487994.786
66+480.000	3124938.419	487994.754
66+490.000	3124928.419	487994.743
66+500.000	3124918.419	487994.751
66+510.000	3124908.419	487994.779
66+520.000	3124898.419	487994.827
66+530.000	3124888.419	487994.896
66+540.000	3124878.42	487994.984
66+550.000	3124868.42	487995.092
66+560.000	3124858.421	487995.221
66+570.000	3124848.422	487995.369
66+580.000	3124838.424	487995.537
66+590.000	3124828.425	487995.725
66+600.000	3124818.428	487995.934
66+610.000	3124808.43	487996.162
66+620.000	3124798.433	487996.41
66+630.000	3124788.437	487996.678

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

STATION COORDINATES DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	33 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SCD/33

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
66+640.000	3124778.441	487996.966
66+650.000	3124768.446	487997.275
66+660.000	3124758.451	487997.603
66+670.000	3124748.457	487997.951
66+680.000	3124738.464	487998.319
66+690.000	3124728.472	487998.707
66+700.000	3124718.48	487999.116
66+710.000	3124708.489	487999.544
66+720.000	3124698.499	487999.992
66+730.000	3124688.51	488000.46
66+740.000	3124678.522	488000.948
66+750.000	3124668.535	488001.456
66+760.000	3124658.549	488001.984
66+770.000	3124648.564	488002.532
66+780.000	3124638.58	488003.1
66+790.000	3124628.597	488003.688
66+800.000	3124618.616	488004.296
66+810.000	3124608.636	488004.924
66+820.000	3124598.657	488005.571
66+830.000	3124588.679	488006.239
66+840.000	3124578.703	488006.927
66+850.000	3124568.728	488007.635
66+860.000	3124558.754	488008.362
66+870.000	3124548.782	488009.11
66+880.000	3124538.812	488009.877
66+890.000	3124528.843	488010.665
66+900.000	3124518.875	488011.472
66+910.000	3124508.91	488012.299
66+920.000	3124498.946	488013.147
66+930.000	3124488.983	488014.014
66+940.000	3124479.023	488014.901
66+950.000	3124469.064	488015.808
66+960.000	3124459.107	488016.735
66+970.000	3124449.152	488017.682
66+980.000	3124439.198	488018.636
66+990.000	3124429.243	488019.591
67+000.000	3124419.289	488020.545
67+010.000	3124409.335	488021.5
67+020.000	3124399.38	488022.454
67+030.000	3124389.426	488023.409
67+040.000	3124379.472	488024.363
67+050.000	3124369.517	488025.318
67+060.000	3124359.563	488026.272
67+070.000	3124349.609	488027.227
67+080.000	3124339.654	488028.181
67+090.000	3124329.7	488029.136
67+100.000	3124319.746	488030.091
67+110.000	3124309.791	488031.045
67+120.000	3124299.837	488032

Station	Northing	Easting
67+130.000	3124289.883	488032.954
67+140.000	3124279.928	488033.909
67+150.000	3124269.974	488034.863
67+160.000	3124260.019	488035.818
67+170.000	3124250.065	488036.772
67+180.000	3124240.111	488037.727
67+190.000	3124230.156	488038.681
67+200.000	3124220.202	488039.636
67+210.000	3124210.248	488040.591
67+220.000	3124200.293	488041.545
67+230.000	3124190.339	488042.5
67+240.000	3124180.385	488043.454
67+250.000	3124170.43	488044.409
67+260.000	3124160.476	488045.363
67+270.000	3124150.522	488046.318
67+280.000	3124140.567	488047.272
67+290.000	3124130.613	488048.227
67+300.000	3124120.659	488049.181
67+310.000	3124110.704	488050.136
67+320.000	3124100.75	488051.09
67+330.000	3124090.796	488052.045
67+340.000	3124080.841	488053
67+350.000	3124070.887	488053.954
67+360.000	3124060.933	488054.909
67+370.000	3124050.978	488055.863
67+380.000	3124041.024	488056.818
67+390.000	3124031.07	488057.772
67+400.000	3124021.115	488058.727
67+410.000	3124011.161	488059.681
67+420.000	3124001.207	488060.636
67+430.000	3123991.252	488061.59
67+440.000	3123981.298	488062.545
67+450.000	3123971.344	488063.499
67+460.000	3123961.389	488064.454
67+470.000	3123951.435	488065.409
67+480.000	3123941.481	488066.363
67+490.000	3123931.526	488067.318
67+500.000	3123921.572	488068.272
67+510.000	3123911.618	488069.227
67+520.000	3123901.663	488070.181
67+530.000	3123891.709	488071.136
67+540.000	3123881.755	488072.09
67+550.000	3123871.8	488073.045
67+560.000	3123861.846	488073.999
67+570.000	3123851.892	488074.954
67+580.000	3123841.937	488075.909
67+590.000	3123831.983	488076.863
67+600.000	3123822.029	488077.818
67+610.000	3123812.074	488078.772

Station	Northing	Easting
67+620.000	3123802.12	488079.727
67+630.000	3123792.166	488080.681
67+640.000	3123782.211	488081.636
67+650.000	3123772.257	488082.59
67+660.000	3123762.303	488083.545
67+670.000	3123752.348	488084.499
67+680.000	3123742.394	488085.454
67+690.000	3123732.44	488086.408
67+700.000	3123722.485	488087.363
67+710.000	3123712.531	488088.318
67+720.000	3123702.577	488089.272
67+730.000	3123692.622	488090.227
67+740.000	3123682.668	488091.181
67+750.000	3123672.714	488092.136
67+760.000	3123662.759	488093.09
67+770.000	3123652.805	488094.045
67+780.000	3123642.851	488094.999
67+790.000	3123632.896	488095.954
67+800.000	3123622.942	488096.908
67+810.000	3123612.988	488097.863
67+820.000	3123603.033	488098.818
67+830.000	3123593.079	488099.772
67+840.000	3123583.124	488100.727
67+850.000	3123573.17	488101.681
67+860.000	3123563.216	488102.636
67+870.000	3123553.261	488103.59
67+880.000	3123543.307	488104.545
67+890.000	3123533.353	488105.499
67+900.000	3123523.398	488106.454
67+910.000	3123513.444	488107.408
67+920.000	3123503.49	488108.363
67+930.000	3123493.535	488109.317
67+940.000	3123483.581	488110.272
67+950.000	3123473.627	488111.227
67+960.000	3123463.672	488112.181
67+970.000	3123453.718	488113.136
67+980.000	3123443.764	488114.09
67+990.000	3123433.809	488115.045
68+000.000	3123423.855	488115.999
68+010.000	3123413.901	488116.954
68+020.000	3123403.946	488117.908
68+030.000	3123393.992	488118.863
68+040.000	3123384.038	488119.817
68+050.000	3123374.083	488120.772
68+060.000	3123364.129	488121.727
68+070.000	3123354.175	488122.681
68+080.000	3123344.22	488123.636
68+090.000	3123334.266	488124.59
68+100.000	3123324.312	488125.545

Station	Northing	Easting
68+110.000	3123314.357	488126.499
68+120.000	3123304.403	488127.454
68+130.000	3123294.449	488128.408
68+140.000	3123284.494	488129.363
68+150.000	3123274.54	488130.317
68+160.000	3123264.586	488131.272
68+170.000	3123254.631	488132.226
68+180.000	3123244.677	488133.181
68+190.000	3123234.723	488134.136
68+200.000	3123224.768	488135.09
68+210.000	3123214.814	488136.045
68+220.000	3123204.86	488136.999
68+230.000	3123194.905	488137.954
68+240.000	3123184.951	488138.908
68+250.000	3123174.997	488139.863
68+260.000	3123165.042	488140.817
68+270.000	3123155.088	488141.772
68+280.000	3123145.134	488142.726
68+290.000	3123135.179	488143.681
68+300.000	3123125.225	488144.636
68+310.000	3123115.271	488145.59
68+320.000	3123105.316	488146.545
68+330.000	3123095.362	488147.499
68+340.000	3123085.408	488148.454
68+350.000	3123075.453	488149.408
68+360.000	3123065.499	488150.363
68+370.000	3123055.545	488151.317
68+380.000	3123045.59	488152.272
68+390.000	3123035.636	488153.226
68+400.000	3123025.682	488154.181
68+410.000	3123015.727	488155.135
68+420.000	3123005.773	488156.09
68+430.000	3122995.819	488157.045
68+440.000	3122985.864	488157.999
68+450.000	3122975.91	488158.954
68+460.000	3122965.956	488159.908
68+470.000	3122956.001	488160.863
68+480.000	3122946.047	488161.817
68+490.000	3122936.092	488162.772
68+500.000	3122926.138	488163.726
68+510.000	3122916.184	488164.681
68+520.000	3122906.229	488165.635
68+530.000	3122896.275	488166.59
68+540.000	3122886.321	488167.544
68+550.000	3122876.366	488168.499
68+560.000	3122866.412	488169.454
68+570.000	3122856.458	488170.408
68+580.000	3122846.503	488171.363
68+590.000	3122836.549	488172.317

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	34 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZU/KA/NK/SCD/34

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
68+600.000	3122826.595	488173.272
68+610.000	3122816.64	488174.226
68+620.000	3122806.686	488175.181
68+630.000	3122796.732	488176.135
68+640.000	3122786.777	488177.09
68+650.000	3122776.823	488178.044
68+660.000	3122766.869	488178.999
68+670.000	3122756.914	488179.954
68+680.000	3122746.96	488180.908
68+690.000	3122737.006	488181.863
68+700.000	3122727.051	488182.817
68+710.000	3122717.097	488183.772
68+720.000	3122707.143	488184.726
68+730.000	3122697.188	488185.681
68+740.000	3122687.234	488186.635
68+750.000	3122677.28	488187.59
68+760.000	3122667.325	488188.544
68+770.000	3122657.371	488189.499
68+780.000	3122647.417	488190.453
68+790.000	3122637.462	488191.408
68+800.000	3122627.508	488192.363
68+810.000	3122617.554	488193.317
68+820.000	3122607.599	488194.272
68+830.000	3122597.645	488195.226
68+840.000	3122587.691	488196.181
68+850.000	3122577.736	488197.135
68+860.000	3122567.783	488198.103
68+870.000	3122557.832	488199.09
68+880.000	3122547.883	488200.097
68+890.000	3122537.936	488201.124
68+900.000	3122527.991	488202.171
68+910.000	3122518.048	488203.237
68+920.000	3122508.107	488204.324
68+930.000	3122498.168	488205.43
68+940.000	3122488.232	488206.557
68+950.000	3122478.298	488207.703
68+960.000	3122468.366	488208.869
68+970.000	3122458.437	488210.055
68+980.000	3122448.51	488211.261
68+990.000	3122438.585	488212.486
69+000.000	3122428.663	488213.732
69+010.000	3122418.743	488214.997
69+020.000	3122408.826	488216.282
69+030.000	3122398.912	488217.587
69+040.000	3122389	488218.912
69+050.000	3122379.091	488220.257
69+060.000	3122369.184	488221.621
69+070.000	3122359.281	488223.005
69+080.000	3122349.38	488224.409

Station	Northing	Easting
69+090.000	3122339.481	488225.833
69+100.000	3122329.586	488227.277
69+110.000	3122319.694	488228.74
69+120.000	3122309.805	488230.224
69+130.000	3122299.918	488231.727
69+140.000	3122290.035	488233.249
69+150.000	3122280.154	488234.792
69+160.000	3122270.277	488236.354
69+170.000	3122260.403	488237.936
69+180.000	3122250.532	488239.538
69+190.000	3122240.665	488241.16
69+200.000	3122230.8	488242.801
69+210.000	3122220.939	488244.462
69+220.000	3122211.081	488246.143
69+230.000	3122201.227	488247.843
69+240.000	3122191.376	488249.563
69+250.000	3122181.529	488251.303
69+260.000	3122171.685	488253.062
69+270.000	3122161.844	488254.842
69+280.000	3122152.007	488256.641
69+290.000	3122142.174	488258.459
69+300.000	3122132.344	488260.297
69+310.000	3122122.519	488262.155
69+320.000	3122112.696	488264.033
69+330.000	3122102.878	488265.93
69+340.000	3122093.063	488267.847
69+350.000	3122083.253	488269.783
69+360.000	3122073.446	488271.739
69+370.000	3122063.643	488273.715
69+380.000	3122053.844	488275.71
69+390.000	3122044.049	488277.725
69+400.000	3122034.258	488279.759
69+410.000	3122024.471	488281.813
69+420.000	3122014.689	488283.887
69+430.000	3122004.91	488285.98
69+440.000	3121995.136	488288.093
69+450.000	3121985.366	488290.225
69+460.000	3121975.6	488292.377
69+470.000	3121965.839	488294.548
69+480.000	3121956.082	488296.739
69+490.000	3121946.329	488298.949
69+500.000	3121936.581	488301.179
69+510.000	3121926.837	488303.428
69+520.000	3121917.098	488305.697
69+530.000	3121907.363	488307.985
69+540.000	3121897.633	488310.293
69+550.000	3121887.908	488312.62
69+560.000	3121878.187	488314.967
69+570.000	3121868.471	488317.333

Station	Northing	Easting
69+580.000	3121858.76	488319.718
69+590.000	3121849.053	488322.123
69+600.000	3121839.351	488324.548
69+610.000	3121829.655	488326.991
69+620.000	3121819.963	488329.454
69+630.000	3121810.276	488331.937
69+640.000	3121800.594	488334.439
69+650.000	3121790.917	488336.96
69+660.000	3121781.245	488339.501
69+670.000	3121771.578	488342.061
69+680.000	3121761.917	488344.64
69+690.000	3121752.26	488347.238
69+700.000	3121742.609	488349.856
69+710.000	3121732.963	488352.493
69+720.000	3121723.322	488355.15
69+730.000	3121713.687	488357.826
69+740.000	3121704.057	488360.521
69+750.000	3121694.432	488363.235
69+760.000	3121684.813	488365.968
69+770.000	3121675.199	488368.721
69+780.000	3121665.591	488371.493
69+790.000	3121655.989	488374.284
69+800.000	3121646.392	488377.094
69+810.000	3121636.8	488379.924
69+820.000	3121627.215	488382.773
69+830.000	3121617.635	488385.641
69+840.000	3121608.06	488388.528
69+850.000	3121598.492	488391.434
69+860.000	3121588.928	488394.354
69+870.000	3121579.364	488397.276
69+880.000	3121569.801	488400.197
69+890.000	3121560.237	488403.119
69+900.000	3121550.673	488406.04
69+910.000	3121541.109	488408.961
69+920.000	3121531.546	488411.883
69+930.000	3121521.982	488414.804
69+940.000	3121512.418	488417.726
69+950.000	3121502.854	488420.647
69+960.000	3121493.291	488423.569
69+970.000	3121483.727	488426.49
69+980.000	3121474.163	488429.411
69+990.000	3121464.599	488432.333
70+000.000	3121455.036	488435.254
70+010.000	3121445.472	488438.176
70+020.000	3121435.908	488441.097
70+030.000	3121426.344	488444.018
70+040.000	3121416.781	488446.94
70+050.000	3121407.217	488449.861
70+060.000	3121397.653	488452.783

Station	Northing	Easting
70+070.000	3121388.089	488455.704
70+080.000	3121378.526	488458.626
70+090.000	3121368.962	488461.547
70+100.000	3121359.398	488464.468
70+110.000	3121349.834	488467.39
70+120.000	3121340.271	488470.311
70+130.000	3121330.707	488473.233
70+140.000	3121321.143	488476.154
70+150.000	3121311.579	488479.076
70+160.000	3121302.016	488481.997
70+170.000	3121292.452	488484.918
70+180.000	3121282.888	488487.84
70+190.000	3121273.324	488490.761
70+200.000	3121263.761	488493.683
70+210.000	3121254.197	488496.604
70+220.000	3121244.633	488499.525
70+230.000	3121235.069	488502.447
70+240.000	3121225.506	488505.368
70+250.000	3121215.942	488508.29
70+260.000	3121206.378	488511.211
70+270.000	3121196.814	488514.133
70+280.000	3121187.251	488517.054
70+290.000	3121177.687	488519.975
70+300.000	3121168.123	488522.897
70+310.000	3121158.559	488525.818
70+320.000	3121148.996	488528.74
70+330.000	3121139.432	488531.661
70+340.000	3121129.868	488534.583
70+350.000	3121120.304	488537.504
70+360.000	3121110.741	488540.425
70+370.000	3121101.177	488543.347
70+380.000	3121091.613	488546.268
70+390.000	3121082.049	488549.19
70+400.000	3121072.486	488552.111
70+410.000	3121062.922	488555.032
70+420.000	3121053.358	488557.954
70+430.000	3121043.794	488560.875
70+440.000	3121034.231	488563.797
70+450.000	3121024.667	488566.718
70+460.000	3121015.103	488569.64
70+470.000	3121005.539	488572.561
70+480.000	3120995.976	488575.482
70+490.000	3120986.412	488578.404
70+500.000	3120976.848	488581.325
70+510.000	3120967.284	488584.247
70+520.000	3120957.721	488587.168
70+530.000	3120948.157	488590.089
70+540.000	3120938.593	488593.011
70+550.000	3120929.029	488595.932

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
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Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	35 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/35

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
70+560.000	3120919.466	488598.854
70+570.000	3120909.902	488601.775
70+580.000	3120900.338	488604.697
70+590.000	3120890.774	488607.618
70+600.000	3120881.211	488610.539
70+610.000	3120871.647	488613.461
70+620.000	3120862.083	488616.382
70+630.000	3120852.519	488619.304
70+640.000	3120842.956	488622.225
70+650.000	3120833.392	488625.147
70+660.000	3120823.828	488628.068
70+670.000	3120814.264	488630.989
70+680.000	3120804.701	488633.911
70+690.000	3120795.137	488636.832
70+700.000	3120785.573	488639.754
70+710.000	3120776.009	488642.675
70+720.000	3120766.446	488645.596
70+730.000	3120756.882	488648.518
70+740.000	3120747.318	488651.439
70+750.000	3120737.754	488654.361
70+760.000	3120728.191	488657.282
70+770.000	3120718.627	488660.204
70+780.000	3120709.063	488663.125
70+790.000	3120699.499	488666.046
70+800.000	3120689.936	488668.968
70+810.000	3120680.372	488671.889
70+820.000	3120670.808	488674.811
70+830.000	3120661.244	488677.732
70+840.000	3120651.681	488680.654
70+850.000	3120642.117	488683.575
70+860.000	3120632.553	488686.496
70+870.000	3120622.989	488689.418
70+880.000	3120613.426	488692.339
70+890.000	3120603.862	488695.261
70+900.000	3120594.298	488698.182
70+910.000	3120584.734	488701.103
70+920.000	3120575.171	488704.025
70+930.000	3120565.607	488706.946
70+940.000	3120556.043	488709.868
70+950.000	3120546.479	488712.789
70+960.000	3120536.916	488715.711
70+970.000	3120527.352	488718.632
70+980.000	3120517.788	488721.553
70+990.000	3120508.224	488724.475
71+000.000	3120498.661	488727.396
71+010.000	3120489.097	488730.318
71+020.000	3120479.533	488733.239
71+030.000	3120469.969	488736.16
71+040.000	3120460.406	488739.082

Station	Northing	Easting
71+050.000	3120450.842	488742.003
71+060.000	3120441.278	488744.925
71+070.000	3120431.714	488747.846
71+080.000	3120422.151	488750.768
71+090.000	3120412.587	488753.689
71+100.000	3120403.023	488756.61
71+110.000	3120393.459	488759.532
71+120.000	3120383.896	488762.453
71+130.000	3120374.332	488765.375
71+140.000	3120364.768	488768.296
71+150.000	3120355.204	488771.218
71+160.000	3120345.641	488774.139
71+170.000	3120336.077	488777.06
71+180.000	3120326.513	488779.982
71+190.000	3120316.949	488782.903
71+200.000	3120307.386	488785.825
71+210.000	3120297.822	488788.746
71+220.000	3120288.258	488791.667
71+230.000	3120278.694	488794.589
71+240.000	3120269.131	488797.51
71+250.000	3120259.567	488800.432
71+260.000	3120250.003	488803.353
71+270.000	3120240.439	488806.275
71+280.000	3120230.876	488809.196
71+290.000	3120221.312	488812.117
71+300.000	3120211.748	488815.039
71+310.000	3120202.184	488817.96
71+320.000	3120192.621	488820.882
71+330.000	3120183.057	488823.803
71+340.000	3120173.493	488826.725
71+350.000	3120163.929	488829.646
71+360.000	3120154.366	488832.567
71+370.000	3120144.802	488835.489
71+380.000	3120135.238	488838.41
71+390.000	3120125.674	488841.332
71+400.000	3120116.111	488844.253
71+410.000	3120106.547	488847.174
71+420.000	3120096.983	488850.096
71+430.000	3120087.419	488853.017
71+440.000	3120077.856	488855.939
71+450.000	3120068.292	488858.86
71+460.000	3120058.728	488861.782
71+470.000	3120049.164	488864.703
71+480.000	3120039.601	488867.624
71+490.000	3120030.037	488870.546
71+500.000	3120020.473	488873.467
71+510.000	3120010.909	488876.389
71+520.000	3120001.346	488879.31
71+530.000	3119991.782	488882.231

Station	Northing	Easting
71+540.000	3119982.218	488885.153
71+550.000	3119972.654	488888.074
71+560.000	3119963.091	488890.996
71+570.000	3119953.527	488893.917
71+580.000	3119943.963	488896.839
71+590.000	3119934.399	488899.76
71+600.000	3119924.836	488902.681
71+610.000	3119915.272	488905.603
71+620.000	3119905.708	488908.524
71+630.000	3119896.144	488911.446
71+640.000	3119886.581	488914.367
71+650.000	3119877.017	488917.289
71+660.000	3119867.453	488920.21
71+670.000	3119857.889	488923.131
71+680.000	3119848.326	488926.053
71+690.000	3119838.762	488928.974
71+700.000	3119829.198	488931.896
71+710.000	3119819.634	488934.817
71+720.000	3119810.071	488937.738
71+730.000	3119800.507	488940.66
71+740.000	3119790.943	488943.581
71+750.000	3119781.379	488946.503
71+760.000	3119771.816	488949.424
71+770.000	3119762.252	488952.346
71+780.000	3119752.688	488955.267
71+790.000	3119743.124	488958.188
71+800.000	3119733.561	488961.11
71+810.000	3119723.997	488964.031
71+820.000	3119714.433	488966.953
71+830.000	3119704.869	488969.874
71+840.000	3119695.306	488972.796
71+850.000	3119685.742	488975.717
71+860.000	3119676.178	488978.638
71+870.000	3119666.614	488981.56
71+880.000	3119657.051	488984.481
71+890.000	3119647.487	488987.403
71+900.000	3119637.923	488990.324
71+910.000	3119628.359	488993.245
71+920.000	3119618.796	488996.167
71+930.000	3119609.232	488999.088
71+940.000	3119599.668	489002.01
71+950.000	3119590.104	489004.931
71+960.000	3119580.541	489007.853
71+970.000	3119570.977	489010.774
71+980.000	3119561.413	489013.695
71+990.000	3119551.849	489016.617
72+000.000	3119542.286	489019.538
72+010.000	3119532.722	489022.46
72+020.000	3119523.158	489025.381

Station	Northing	Easting
72+030.000	3119513.594	489028.303
72+040.000	3119504.031	489031.224
72+050.000	3119494.467	489034.145
72+060.000	3119484.903	489037.067
72+070.000	3119475.339	489039.988
72+080.000	3119465.776	489042.91
72+090.000	3119456.212	489045.831
72+100.000	3119446.648	489048.752
72+110.000	3119437.084	489051.674
72+120.000	3119427.521	489054.595
72+130.000	3119417.957	489057.517
72+140.000	3119408.393	489060.438
72+150.000	3119398.829	489063.36
72+160.000	3119389.266	489066.281
72+170.000	3119379.702	489069.202
72+180.000	3119370.138	489072.124
72+190.000	3119360.574	489075.045
72+200.000	3119351.011	489077.967
72+210.000	3119341.447	489080.888
72+220.000	3119331.883	489083.809
72+230.000	3119322.319	489086.731
72+240.000	3119312.756	489089.652
72+250.000	3119303.192	489092.574
72+260.000	3119293.628	489095.495
72+270.000	3119284.064	489098.417
72+280.000	3119274.501	489101.338
72+290.000	3119264.937	489104.259
72+300.000	3119255.373	489107.181
72+310.000	3119245.809	489110.102
72+320.000	3119236.246	489113.024
72+330.000	3119226.682	489115.945
72+340.000	3119217.118	489118.867
72+350.000	3119207.554	489121.788
72+360.000	3119197.991	489124.709
72+370.000	3119188.427	489127.631
72+380.000	3119178.863	489130.552
72+390.000	3119169.299	489133.474
72+400.000	3119159.736	489136.395
72+410.000	3119150.172	489139.316
72+420.000	3119140.608	489142.238
72+430.000	3119131.044	489145.159
72+440.000	3119121.481	489148.081
72+450.000	3119111.917	489151.002
72+460.000	3119102.353	489153.924
72+470.000	3119092.789	489156.845
72+480.000	3119083.226	489159.766
72+490.000	3119073.662	489162.688
72+500.000	3119064.098	489165.609
72+510.000	3119054.534	489168.531

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	36 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/36

Alignment Incremental Station Report

NOK KUNDI MASH KHEL

Start: 0+000.00, End: 102+950.726

Station Increment: 10.00

Station	Northing	Easting
72+520.000	3119044.971	489171.452
72+530.000	3119035.407	489174.374
72+540.000	3119025.843	489177.295
72+550.000	3119016.279	489180.216
72+560.000	3119006.716	489183.138
72+570.000	3118997.152	489186.059
72+580.000	3118987.588	489188.981
72+590.000	3118978.024	489191.902
72+600.000	3118968.461	489194.823
72+610.000	3118958.897	489197.745
72+620.000	3118949.333	489200.666
72+630.000	3118939.769	489203.588
72+640.000	3118930.206	489206.509
72+650.000	3118920.642	489209.431
72+660.000	3118911.078	489212.352
72+670.000	3118901.514	489215.273
72+680.000	3118891.951	489218.195
72+690.000	3118882.387	489221.116
72+700.000	3118872.823	489224.038
72+710.000	3118863.259	489226.959
72+720.000	3118853.696	489229.88
72+730.000	3118844.132	489232.802
72+740.000	3118834.568	489235.723
72+750.000	3118825.004	489238.645
72+760.000	3118815.441	489241.566
72+770.000	3118805.877	489244.488
72+780.000	3118796.313	489247.409
72+790.000	3118786.749	489250.33
72+800.000	3118777.186	489253.252
72+810.000	3118767.622	489256.173
72+820.000	3118758.058	489259.095
72+830.000	3118748.494	489262.016
72+840.000	3118738.931	489264.938
72+850.000	3118729.367	489267.859
72+860.000	3118719.803	489270.78
72+870.000	3118710.239	489273.702
72+880.000	3118700.676	489276.623
72+890.000	3118691.112	489279.545
72+900.000	3118681.548	489282.466
72+910.000	3118671.984	489285.387
72+920.000	3118662.421	489288.309
72+930.000	3118652.857	489291.23
72+940.000	3118643.293	489294.152
72+950.000	3118633.729	489297.073
72+960.000	3118624.166	489299.995
72+970.000	3118614.602	489302.916
72+980.000	3118605.038	489305.837
72+990.000	3118595.474	489308.759
73+000.000	3118585.911	489311.68

Station	Northing	Easting
73+010.000	3118576.347	489314.602
73+020.000	3118566.783	489317.523
73+030.000	3118557.22	489320.445
73+040.000	3118547.656	489323.366
73+050.000	3118538.092	489326.287
73+060.000	3118528.528	489329.209
73+070.000	3118518.965	489332.13
73+080.000	3118509.401	489335.052
73+090.000	3118499.837	489337.973
73+100.000	3118490.273	489340.894
73+110.000	3118480.71	489343.816
73+120.000	3118471.146	489346.737
73+130.000	3118461.582	489349.659
73+140.000	3118452.018	489352.58
73+150.000	3118442.455	489355.502
73+160.000	3118432.891	489358.423
73+170.000	3118423.327	489361.344
73+180.000	3118413.763	489364.266
73+190.000	3118404.2	489367.187
73+200.000	3118394.636	489370.109
73+210.000	3118385.072	489373.03
73+220.000	3118375.508	489375.951
73+230.000	3118365.945	489378.873
73+240.000	3118356.381	489381.794
73+250.000	3118346.817	489384.716
73+260.000	3118337.253	489387.637
73+270.000	3118327.69	489390.559
73+280.000	3118318.126	489393.48
73+290.000	3118308.562	489396.401
73+300.000	3118298.998	489399.323
73+310.000	3118289.435	489402.244
73+320.000	3118279.871	489405.166
73+330.000	3118270.307	489408.087
73+340.000	3118260.743	489411.009
73+350.000	3118251.18	489413.93
73+360.000	3118241.616	489416.851
73+370.000	3118232.052	489419.773
73+380.000	3118222.488	489422.694
73+390.000	3118212.925	489425.616
73+400.000	3118203.361	489428.537
73+410.000	3118193.797	489431.458
73+420.000	3118184.233	489434.38
73+430.000	3118174.67	489437.301
73+440.000	3118165.106	489440.223
73+450.000	3118155.542	489443.144
73+460.000	3118145.978	489446.066
73+470.000	3118136.415	489448.987
73+480.000	3118126.851	489451.908
73+490.000	3118117.287	489454.83

Station	Northing	Easting
73+500.000	3118107.723	489457.751
73+510.000	3118098.16	489460.673
73+520.000	3118088.596	489463.594
73+530.000	3118079.032	489466.516
73+540.000	3118069.468	489469.437
73+550.000	3118059.905	489472.358
73+560.000	3118050.341	489475.28
73+570.000	3118040.777	489478.201
73+580.000	3118031.213	489481.123
73+590.000	3118021.65	489484.044
73+600.000	3118012.086	489486.965
73+610.000	3118002.522	489489.887
73+620.000	3117992.958	489492.808
73+630.000	3117983.395	489495.73
73+640.000	3117973.831	489498.651
73+650.000	3117964.267	489501.573
73+660.000	3117954.703	489504.494
73+670.000	3117945.14	489507.415
73+680.000	3117935.576	489510.337
73+690.000	3117926.012	489513.258
73+700.000	3117916.448	489516.18
73+710.000	3117906.885	489519.101
73+720.000	3117897.321	489522.023
73+730.000	3117887.757	489524.944
73+740.000	3117878.193	489527.865
73+750.000	3117868.63	489530.787
73+760.000	3117859.066	489533.708
73+770.000	3117849.502	489536.63
73+780.000	3117839.938	489539.551
73+790.000	3117830.375	489542.472
73+800.000	3117820.811	489545.394
73+810.000	3117811.247	489548.315
73+820.000	3117801.683	489551.237
73+830.000	3117792.12	489554.158
73+840.000	3117782.556	489557.08
73+850.000	3117772.992	489560.001
73+860.000	3117763.428	489562.922
73+870.000	3117753.865	489565.844
73+880.000	3117744.301	489568.765
73+890.000	3117734.737	489571.687
73+900.000	3117725.173	489574.608
73+910.000	3117715.61	489577.529
73+920.000	3117706.046	489580.451
73+930.000	3117696.482	489583.372
73+940.000	3117686.918	489586.294
73+950.000	3117677.355	489589.215
73+960.000	3117667.791	489592.137
73+970.000	3117658.227	489595.058
73+980.000	3117648.663	489597.979

Station	Northing	Easting
73+990.000	3117639.1	489600.901
74+000.000	3117629.536	489603.822
74+010.000	3117619.972	489606.744
74+020.000	3117610.408	489609.665
74+030.000	3117600.845	489612.587
74+040.000	3117591.281	489615.508
74+050.000	3117581.717	489618.429
74+060.000	3117572.153	489621.351
74+070.000	3117562.59	489624.272
74+080.000	3117553.026	489627.194
74+090.000	3117543.462	489630.115
74+100.000	3117533.898	489633.036
74+110.000	3117524.335	489635.958
74+120.000	3117514.771	489638.879
74+130.000	3117505.207	489641.801
74+140.000	3117495.643	489644.722
74+150.000	3117486.08	489647.644
74+160.000	3117476.516	489650.565
74+170.000	3117466.952	489653.486
74+180.000	3117457.388	489656.408
74+190.000	3117447.825	489659.329
74+200.000	3117438.261	489662.251
74+210.000	3117428.697	489665.172
74+220.000	3117419.133	489668.094
74+230.000	3117409.57	489671.015
74+240.000	3117400.006	489673.936
74+250.000	3117390.442	489676.858
74+260.000	3117380.878	489679.779
74+270.000	3117371.315	489682.701
74+280.000	3117361.751	489685.622
74+290.000	3117352.187	489688.543
74+300.000	3117342.623	489691.465
74+310.000	3117333.06	489694.386
74+320.000	3117323.496	489697.308
74+330.000	3117313.932	489700.229
74+340.000	3117304.368	489703.151
74+350.000	3117294.805	489706.072
74+360.000	3117285.241	489708.993
74+370.000	3117275.677	489711.915
74+380.000	3117266.113	489714.836
74+390.000	3117256.55	489717.758
74+400.000	3117246.986	489720.679
74+410.000	3117237.422	489723.6
74+420.000	3117227.858	489726.522
74+430.000	3117218.295	489729.443
74+440.000	3117208.731	489732.365
74+450.000	3117199.167	489735.286
74+460.000	3117189.603	489738.208
74+470.000	3117180.04	489741.129

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
1-B Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY: AYESHA SHABBIR	SHEET NO: 37 OF 52
DRAWN BY: RAJA FARHAT	SCALE: N.T.S
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/SCD/37

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
74+480.000	3117170.476	489744.05
74+490.000	3117160.912	489746.972
74+500.000	3117151.348	489749.893
74+510.000	3117141.785	489752.815
74+520.000	3117132.221	489755.736
74+530.000	3117122.657	489758.658
74+540.000	3117113.093	489761.579
74+550.000	3117103.53	489764.5
74+560.000	3117093.966	489767.422
74+570.000	3117084.402	489770.343
74+580.000	3117074.838	489773.265
74+590.000	3117065.275	489776.186
74+600.000	3117055.711	489779.107
74+610.000	3117046.147	489782.029
74+620.000	3117036.583	489784.95
74+630.000	3117027.02	489787.872
74+640.000	3117017.456	489790.793
74+650.000	3117007.892	489793.715
74+660.000	3116998.328	489796.636
74+670.000	3116988.765	489799.557
74+680.000	3116979.2	489802.477
74+690.000	3116969.634	489805.389
74+700.000	3116960.064	489808.293
74+710.000	3116950.493	489811.188
74+720.000	3116940.919	489814.076
74+730.000	3116931.343	489816.956
74+740.000	3116921.764	489819.828
74+750.000	3116912.183	489822.692
74+760.000	3116902.599	489825.548
74+770.000	3116893.014	489828.396
74+780.000	3116883.425	489831.236
74+790.000	3116873.835	489834.068
74+800.000	3116864.242	489836.892
74+810.000	3116854.646	489839.708
74+820.000	3116845.049	489842.516
74+830.000	3116835.449	489845.316
74+840.000	3116825.846	489848.108
74+850.000	3116816.242	489850.892
74+860.000	3116806.635	489853.668
74+870.000	3116797.026	489856.436
74+880.000	3116787.414	489859.196
74+890.000	3116777.8	489861.948
74+900.000	3116768.184	489864.692
74+910.000	3116758.566	489867.428
74+920.000	3116748.945	489870.156
74+930.000	3116739.322	489872.876
74+940.000	3116729.697	489875.588
74+950.000	3116720.069	489878.292
74+960.000	3116710.439	489880.988

Station	Northing	Easting
74+970.000	3116700.807	489883.676
74+980.000	3116691.173	489886.356
74+990.000	3116681.537	489889.027
75+000.000	3116671.898	489891.691
75+010.000	3116662.257	489894.347
75+020.000	3116652.614	489896.995
75+030.000	3116642.969	489899.634
75+040.000	3116633.321	489902.266
75+050.000	3116623.671	489904.889
75+060.000	3116614.019	489907.505
75+070.000	3116604.365	489910.112
75+080.000	3116594.709	489912.712
75+090.000	3116585.051	489915.303
75+100.000	3116575.39	489917.887
75+110.000	3116565.727	489920.462
75+120.000	3116556.063	489923.029
75+130.000	3116546.396	489925.588
75+140.000	3116536.727	489928.139
75+150.000	3116527.055	489930.683
75+160.000	3116517.382	489933.218
75+170.000	3116507.706	489935.744
75+180.000	3116498.029	489938.263
75+190.000	3116488.349	489940.774
75+200.000	3116478.667	489943.277
75+210.000	3116468.984	489945.772
75+220.000	3116459.298	489948.258
75+230.000	3116449.61	489950.737
75+240.000	3116439.92	489953.207
75+250.000	3116430.228	489955.67
75+260.000	3116420.534	489958.126
75+270.000	3116410.84	489960.581
75+280.000	3116401.146	489963.036
75+290.000	3116391.452	489965.492
75+300.000	3116381.758	489967.947
75+310.000	3116372.065	489970.402
75+320.000	3116362.371	489972.858
75+330.000	3116352.677	489975.313
75+340.000	3116342.983	489977.769
75+350.000	3116333.289	489980.224
75+360.000	3116323.595	489982.679
75+370.000	3116313.901	489985.135
75+380.000	3116304.207	489987.59
75+390.000	3116294.514	489990.045
75+400.000	3116284.82	489992.501
75+410.000	3116275.126	489994.956
75+420.000	3116265.432	489997.412
75+430.000	3116255.738	489999.867
75+440.000	3116246.044	490002.322
75+450.000	3116236.35	490004.778

Station	Northing	Easting
75+460.000	3116226.656	490007.233
75+470.000	3116216.963	490009.688
75+480.000	3116207.269	490012.144
75+490.000	3116197.575	490014.599
75+500.000	3116187.881	490017.055
75+510.000	3116178.187	490019.51
75+520.000	3116168.493	490021.965
75+530.000	3116158.799	490024.421
75+540.000	3116149.106	490026.876
75+550.000	3116139.412	490029.331
75+560.000	3116129.718	490031.787
75+570.000	3116120.024	490034.242
75+580.000	3116110.33	490036.698
75+590.000	3116100.636	490039.153
75+600.000	3116090.942	490041.608
75+610.000	3116081.248	490044.064
75+620.000	3116071.555	490046.519
75+630.000	3116061.861	490048.974
75+640.000	3116052.167	490051.43
75+650.000	3116042.473	490053.885
75+660.000	3116032.779	490056.341
75+670.000	3116023.085	490058.796
75+680.000	3116013.391	490061.251
75+690.000	3116003.697	490063.707
75+700.000	3115994.004	490066.162
75+710.000	3115984.31	490068.617
75+720.000	3115974.616	490071.073
75+730.000	3115964.922	490073.528
75+740.000	3115955.228	490075.984
75+750.000	3115945.534	490078.439
75+760.000	3115935.84	490080.894
75+770.000	3115926.146	490083.35
75+780.000	3115916.453	490085.805
75+790.000	3115906.759	490088.26
75+800.000	3115897.065	490090.716
75+810.000	3115887.371	490093.171
75+820.000	3115877.677	490095.627
75+830.000	3115867.983	490098.082
75+840.000	3115858.289	490100.537
75+850.000	3115848.596	490102.993
75+860.000	3115838.902	490105.448
75+870.000	3115829.208	490107.903
75+880.000	3115819.514	490110.359
75+890.000	3115809.82	490112.814
75+900.000	3115800.126	490115.27
75+910.000	3115790.432	490117.725
75+920.000	3115780.738	490120.18
75+930.000	3115771.045	490122.636
75+940.000	3115761.351	490125.091

Station	Northing	Easting
75+950.000	3115751.657	490127.546
75+960.000	3115741.963	490130.002
75+970.000	3115732.269	490132.457
75+980.000	3115722.575	490134.913
75+990.000	3115712.881	490137.368
76+000.000	3115703.187	490139.823
76+010.000	3115693.494	490142.279
76+020.000	3115683.8	490144.734
76+030.000	3115674.106	490147.189
76+040.000	3115664.412	490149.645
76+050.000	3115654.718	490152.1
76+060.000	3115645.024	490154.556
76+070.000	3115635.33	490157.011
76+080.000	3115625.636	490159.466
76+090.000	3115615.943	490161.922
76+100.000	3115606.249	490164.377
76+110.000	3115596.555	490166.832
76+120.000	3115586.861	490169.288
76+130.000	3115577.167	490171.743
76+140.000	3115567.473	490174.199
76+150.000	3115557.779	490176.654
76+160.000	3115548.086	490179.109
76+170.000	3115538.392	490181.565
76+180.000	3115528.698	490184.02
76+190.000	3115519.004	490186.475
76+200.000	3115509.31	490188.931
76+210.000	3115499.616	490191.386
76+220.000	3115489.922	490193.842
76+230.000	3115480.228	490196.297
76+240.000	3115470.535	490198.752
76+250.000	3115460.841	490201.208
76+260.000	3115451.147	490203.663
76+270.000	3115441.453	490206.118
76+280.000	3115431.759	490208.574
76+290.000	3115422.065	490211.029
76+300.000	3115412.371	490213.485
76+310.000	3115402.677	490215.94
76+320.000	3115392.984	490218.395
76+330.000	3115383.29	490220.851
76+340.000	3115373.596	490223.306
76+350.000	3115363.902	490225.761
76+360.000	3115354.208	490228.217
76+370.000	3115344.514	490230.672
76+380.000	3115334.82	490233.128
76+390.000	3115325.126	490235.583
76+400.000	3115315.433	490238.038
76+410.000	3115305.739	490240.494
76+420.000	3115296.045	490242.949
76+430.000	3115286.351	490245.404

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZIBERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
Jeh Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	38 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/38

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
76+440.000	3115276.657	490247.86
76+450.000	3115266.963	490250.315
76+460.000	3115257.269	490252.771
76+470.000	3115247.576	490255.226
76+480.000	3115237.882	490257.681
76+490.000	3115228.188	490260.137
76+500.000	3115218.494	490262.592
76+510.000	3115208.8	490265.047
76+520.000	3115199.106	490267.503
76+530.000	3115189.412	490269.958
76+540.000	3115179.718	490272.414
76+550.000	3115170.025	490274.869
76+560.000	3115160.331	490277.324
76+570.000	3115150.637	490279.78
76+580.000	3115140.943	490282.235
76+590.000	3115131.249	490284.69
76+600.000	3115121.555	490287.146
76+610.000	3115111.861	490289.601
76+620.000	3115102.167	490292.057
76+630.000	3115092.474	490294.512
76+640.000	3115082.78	490296.967
76+650.000	3115073.086	490299.423
76+660.000	3115063.392	490301.878
76+670.000	3115053.698	490304.333
76+680.000	3115044.004	490306.789
76+690.000	3115034.31	490309.244
76+700.000	3115024.616	490311.7
76+710.000	3115014.923	490314.155
76+720.000	3115005.229	490316.61
76+730.000	3114995.535	490319.066
76+740.000	3114985.841	490321.521
76+750.000	3114976.147	490323.976
76+760.000	3114966.453	490326.432
76+770.000	3114956.759	490328.887
76+780.000	3114947.066	490331.343
76+790.000	3114937.372	490333.798
76+800.000	3114927.678	490336.253
76+810.000	3114917.984	490338.709
76+820.000	3114908.29	490341.164
76+830.000	3114898.596	490343.619
76+840.000	3114888.902	490346.075
76+850.000	3114879.208	490348.53
76+860.000	3114869.515	490350.986
76+870.000	3114859.821	490353.441
76+880.000	3114850.127	490355.896
76+890.000	3114840.433	490358.352
76+900.000	3114830.739	490360.807
76+910.000	3114821.045	490363.262
76+920.000	3114811.351	490365.718

Station	Northing	Easting
76+930.000	3114801.657	490368.173
76+940.000	3114791.964	490370.629
76+950.000	3114782.27	490373.084
76+960.000	3114772.576	490375.539
76+970.000	3114762.882	490377.995
76+980.000	3114753.188	490380.45
76+990.000	3114743.494	490382.905
77+000.000	3114733.8	490385.361
77+010.000	3114724.106	490387.816
77+020.000	3114714.413	490390.272
77+030.000	3114704.719	490392.727
77+040.000	3114695.025	490395.182
77+050.000	3114685.331	490397.638
77+060.000	3114675.637	490400.093
77+070.000	3114665.943	490402.548
77+080.000	3114656.249	490405.004
77+090.000	3114646.556	490407.459
77+100.000	3114636.862	490409.915
77+110.000	3114627.168	490412.37
77+120.000	3114617.474	490414.825
77+130.000	3114607.78	490417.281
77+140.000	3114598.086	490419.736
77+150.000	3114588.392	490422.191
77+160.000	3114578.698	490424.647
77+170.000	3114569.005	490427.102
77+180.000	3114559.311	490429.558
77+190.000	3114549.617	490432.013
77+200.000	3114539.923	490434.468
77+210.000	3114530.229	490436.924
77+220.000	3114520.535	490439.379
77+230.000	3114510.841	490441.834
77+240.000	3114501.147	490444.29
77+250.000	3114491.454	490446.745
77+260.000	3114481.76	490449.201
77+270.000	3114472.066	490451.656
77+280.000	3114462.372	490454.111
77+290.000	3114452.678	490456.567
77+300.000	3114442.984	490459.022
77+310.000	3114433.29	490461.477
77+320.000	3114423.596	490463.933
77+330.000	3114413.903	490466.388
77+340.000	3114404.209	490468.844
77+350.000	3114394.515	490471.299
77+360.000	3114384.821	490473.754
77+370.000	3114375.127	490476.21
77+380.000	3114365.433	490478.665
77+390.000	3114355.739	490481.12
77+400.000	3114346.046	490483.576
77+410.000	3114336.352	490486.031

Station	Northing	Easting
77+420.000	3114326.658	490488.487
77+430.000	3114316.964	490490.942
77+440.000	3114307.27	490493.397
77+450.000	3114297.576	490495.853
77+460.000	3114287.882	490498.308
77+470.000	3114278.188	490500.763
77+480.000	3114268.495	490503.219
77+490.000	3114258.801	490505.674
77+500.000	3114249.107	490508.13
77+510.000	3114239.413	490510.585
77+520.000	3114229.719	490513.04
77+530.000	3114220.025	490515.496
77+540.000	3114210.331	490517.951
77+550.000	3114200.637	490520.406
77+560.000	3114190.944	490522.862
77+570.000	3114181.25	490525.317
77+580.000	3114171.556	490527.773
77+590.000	3114161.862	490530.228
77+600.000	3114152.168	490532.683
77+610.000	3114142.474	490535.139
77+620.000	3114132.78	490537.594
77+630.000	3114123.087	490540.049
77+640.000	3114113.393	490542.505
77+650.000	3114103.699	490544.96
77+660.000	3114094.005	490547.416
77+670.000	3114084.311	490549.871
77+680.000	3114074.617	490552.326
77+690.000	3114064.923	490554.782
77+700.000	3114055.229	490557.237
77+710.000	3114045.536	490559.692
77+720.000	3114035.842	490562.148
77+730.000	3114026.148	490564.603
77+740.000	3114016.454	490567.059
77+750.000	3114006.76	490569.514
77+760.000	3113997.066	490571.969
77+770.000	3113987.372	490574.425
77+780.000	3113977.678	490576.88
77+790.000	3113967.985	490579.335
77+800.000	3113958.291	490581.791
77+810.000	3113948.597	490584.246
77+820.000	3113938.903	490586.702
77+830.000	3113929.209	490589.157
77+840.000	3113919.515	490591.612
77+850.000	3113909.821	490594.068
77+860.000	3113900.127	490596.523
77+870.000	3113890.434	490598.978
77+880.000	3113880.74	490601.434
77+890.000	3113871.046	490603.889
77+900.000	3113861.352	490606.345

Station	Northing	Easting
77+910.000	3113851.658	490608.8
77+920.000	3113841.964	490611.255
77+930.000	3113832.27	490613.711
77+940.000	3113822.577	490616.166
77+950.000	3113812.883	490618.621
77+960.000	3113803.189	490621.077
77+970.000	3113793.495	490623.532
77+980.000	3113783.801	490625.988
77+990.000	3113774.107	490628.443
78+000.000	3113764.413	490630.898
78+010.000	3113754.719	490633.354
78+020.000	3113745.026	490635.809
78+030.000	3113735.332	490638.264
78+040.000	3113725.638	490640.72
78+050.000	3113715.944	490643.175
78+060.000	3113706.25	490645.631
78+070.000	3113696.556	490648.086
78+080.000	3113686.862	490650.541
78+090.000	3113677.168	490652.997
78+100.000	3113667.475	490655.452
78+110.000	3113657.781	490657.907
78+120.000	3113648.087	490660.363
78+130.000	3113638.393	490662.818
78+140.000	3113628.699	490665.274
78+150.000	3113619.005	490667.729
78+160.000	3113609.311	490670.184
78+170.000	3113599.617	490672.64
78+180.000	3113589.924	490675.095
78+190.000	3113580.23	490677.55
78+200.000	3113570.536	490680.006
78+210.000	3113560.842	490682.461
78+220.000	3113551.148	490684.917
78+230.000	3113541.454	490687.372
78+240.000	3113531.76	490689.827
78+250.000	3113522.067	490692.283
78+260.000	3113512.373	490694.738
78+270.000	3113502.679	490697.193
78+280.000	3113492.985	490699.649
78+290.000	3113483.291	490702.104
78+300.000	3113473.597	490704.56
78+310.000	3113463.903	490707.015
78+320.000	3113454.209	490709.47
78+330.000	3113444.516	490711.926
78+340.000	3113434.822	490714.381
78+350.000	3113425.128	490716.836
78+360.000	3113415.434	490719.292
78+370.000	3113405.74	490721.747
78+380.000	3113396.046	490724.203
78+390.000	3113386.352	490726.658

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4838213-4, FAX: 051-4838215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	39 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/39

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
78+400.000	3113376.658	490729.113
78+410.000	3113366.965	490731.569
78+420.000	3113357.271	490734.024
78+430.000	3113347.577	490736.479
78+440.000	3113337.883	490738.935
78+450.000	3113328.189	490741.39
78+460.000	3113318.495	490743.846
78+470.000	3113308.801	490746.301
78+480.000	3113299.107	490748.756
78+490.000	3113289.414	490751.212
78+500.000	3113279.72	490753.667
78+510.000	3113270.026	490756.122
78+520.000	3113260.332	490758.578
78+530.000	3113250.638	490761.033
78+540.000	3113240.944	490763.489
78+550.000	3113231.25	490765.944
78+560.000	3113221.557	490768.399
78+570.000	3113211.863	490770.855
78+580.000	3113202.169	490773.31
78+590.000	3113192.475	490775.765
78+600.000	3113182.781	490778.221
78+610.000	3113173.087	490780.676
78+620.000	3113163.393	490783.132
78+630.000	3113153.699	490785.587
78+640.000	3113144.006	490788.042
78+650.000	3113134.312	490790.498
78+660.000	3113124.618	490792.953
78+670.000	3113114.924	490795.408
78+680.000	3113105.23	490797.864
78+690.000	3113095.536	490800.319
78+700.000	3113085.842	490802.775
78+710.000	3113076.148	490805.23
78+720.000	3113066.455	490807.685
78+730.000	3113056.761	490810.141
78+740.000	3113047.067	490812.596
78+750.000	3113037.373	490815.051
78+760.000	3113027.679	490817.507
78+770.000	3113017.985	490819.962
78+780.000	3113008.291	490822.418
78+790.000	3112998.597	490824.873
78+800.000	3112988.904	490827.328
78+810.000	3112979.21	490829.784
78+820.000	3112969.516	490832.239
78+830.000	3112959.822	490834.694
78+840.000	3112950.128	490837.15
78+850.000	3112940.434	490839.605
78+860.000	3112930.74	490842.061
78+870.000	3112921.047	490844.516
78+880.000	3112911.353	490846.971

Station	Northing	Easting
78+890.000	3112901.659	490849.427
78+900.000	3112891.965	490851.882
78+910.000	3112882.271	490854.337
78+920.000	3112872.577	490856.793
78+930.000	3112862.883	490859.248
78+940.000	3112853.189	490861.704
78+950.000	3112843.496	490864.159
78+960.000	3112833.802	490866.614
78+970.000	3112824.108	490869.07
78+980.000	3112814.414	490871.525
78+990.000	3112804.72	490873.98
79+000.000	3112795.026	490876.436
79+010.000	3112785.332	490878.891
79+020.000	3112775.638	490881.347
79+030.000	3112765.945	490883.802
79+040.000	3112756.251	490886.257
79+050.000	3112746.557	490888.713
79+060.000	3112736.863	490891.168
79+070.000	3112727.169	490893.623
79+080.000	3112717.475	490896.079
79+090.000	3112707.781	490898.534
79+100.000	3112698.087	490900.99
79+110.000	3112688.394	490903.445
79+120.000	3112678.7	490905.9
79+130.000	3112669.006	490908.356
79+140.000	3112659.312	490910.811
79+150.000	3112649.618	490913.266
79+160.000	3112639.924	490915.722
79+170.000	3112630.23	490918.177
79+180.000	3112620.537	490920.633
79+190.000	3112610.843	490923.088
79+200.000	3112601.149	490925.543
79+210.000	3112591.455	490927.999
79+220.000	3112581.761	490930.454
79+230.000	3112572.067	490932.909
79+240.000	3112562.373	490935.365
79+250.000	3112552.679	490937.82
79+260.000	3112542.986	490940.276
79+270.000	3112533.292	490942.731
79+280.000	3112523.598	490945.186
79+290.000	3112513.904	490947.642
79+300.000	3112504.21	490950.097
79+310.000	3112494.516	490952.552
79+320.000	3112484.822	490955.008
79+330.000	3112475.128	490957.463
79+340.000	3112465.435	490959.919
79+350.000	3112455.741	490962.374
79+360.000	3112446.047	490964.829
79+370.000	3112436.353	490967.285

Station	Northing	Easting
79+380.000	3112426.659	490969.74
79+390.000	3112416.965	490972.195
79+400.000	3112407.271	490974.65
79+410.000	3112397.575	490977.097
79+420.000	3112387.877	490979.534
79+430.000	3112378.175	490981.959
79+440.000	3112368.471	490984.374
79+450.000	3112358.764	490986.778
79+460.000	3112349.055	490989.171
79+470.000	3112339.343	490991.553
79+480.000	3112329.628	490993.925
79+490.000	3112319.911	490996.286
79+500.000	3112310.191	490998.636
79+510.000	3112300.468	491000.975
79+520.000	3112290.743	491003.303
79+530.000	3112281.015	491005.621
79+540.000	3112271.285	491007.928
79+550.000	3112261.552	491010.224
79+560.000	3112251.817	491012.509
79+570.000	3112242.079	491014.783
79+580.000	3112232.338	491017.047
79+590.000	3112222.595	491019.299
79+600.000	3112212.85	491021.541
79+610.000	3112203.102	491023.772
79+620.000	3112193.352	491025.992
79+630.000	3112183.599	491028.202
79+640.000	3112173.843	491030.4
79+650.000	3112164.086	491032.588
79+660.000	3112154.325	491034.765
79+670.000	3112144.563	491036.931
79+680.000	3112134.798	491039.086
79+690.000	3112125.03	491041.23
79+700.000	3112115.261	491043.363
79+710.000	3112105.489	491045.486
79+720.000	3112095.714	491047.598
79+730.000	3112085.937	491049.698
79+740.000	3112076.158	491051.788
79+750.000	3112066.377	491053.868
79+760.000	3112056.593	491055.936
79+770.000	3112046.807	491057.993
79+780.000	3112037.018	491060.04
79+790.000	3112027.228	491062.075
79+800.000	3112017.435	491064.1
79+810.000	3112007.64	491066.114
79+820.000	3111997.842	491068.117
79+830.000	3111988.043	491070.109
79+840.000	3111978.241	491072.09
79+850.000	3111968.437	491074.06
79+860.000	3111958.631	491076.02

Station	Northing	Easting
79+870.000	3111948.823	491077.968
79+880.000	3111939.012	491079.906
79+890.000	3111929.199	491081.833
79+900.000	3111919.385	491083.748
79+910.000	3111909.568	491085.653
79+920.000	3111899.749	491087.547
79+930.000	3111889.928	491089.43
79+940.000	3111880.104	491091.303
79+950.000	3111870.279	491093.164
79+960.000	3111860.452	491095.014
79+970.000	3111850.623	491096.854
79+980.000	3111840.791	491098.682
79+990.000	3111830.958	491100.5
80+000.000	3111821.122	491102.306
80+010.000	3111811.285	491104.102
80+020.000	3111801.445	491105.887
80+030.000	3111791.604	491107.661
80+040.000	3111781.761	491109.424
80+050.000	3111771.915	491111.175
80+060.000	3111762.068	491112.917
80+070.000	3111752.219	491114.647
80+080.000	3111742.368	491116.366
80+090.000	3111732.515	491118.074
80+100.000	3111722.66	491119.771
80+110.000	3111712.803	491121.457
80+120.000	3111702.944	491123.133
80+130.000	3111693.084	491124.797
80+140.000	3111683.221	491126.451
80+150.000	3111673.357	491128.093
80+160.000	3111663.491	491129.725
80+170.000	3111653.624	491131.346
80+180.000	3111643.756	491132.966
80+190.000	3111633.888	491134.586
80+200.000	3111624.02	491136.206
80+210.000	3111614.152	491137.826
80+220.000	3111604.284	491139.446
80+230.000	3111594.416	491141.066
80+240.000	3111584.548	491142.686
80+250.000	3111574.68	491144.306
80+260.000	3111564.812	491145.926
80+270.000	3111554.944	491147.546
80+280.000	3111545.076	491149.166
80+290.000	3111535.209	491150.786
80+300.000	3111525.341	491152.406
80+310.000	3111515.473	491154.026
80+320.000	3111505.605	491155.646
80+330.000	3111495.737	491157.266
80+340.000	3111485.869	491158.886
80+350.000	3111476.001	491160.506

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEBRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	40 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SCD/40

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
80+360.000	3111466.133	491162.126
80+370.000	3111456.265	491163.746
80+380.000	3111446.397	491165.366
80+390.000	3111436.529	491166.986
80+400.000	3111426.662	491168.606
80+410.000	3111416.794	491170.226
80+420.000	3111406.926	491171.846
80+430.000	3111397.058	491173.466
80+440.000	3111387.19	491175.086
80+450.000	3111377.322	491176.706
80+460.000	3111367.454	491178.326
80+470.000	3111357.586	491179.946
80+480.000	3111347.718	491181.566
80+490.000	3111337.85	491183.186
80+500.000	3111327.982	491184.806
80+510.000	3111318.115	491186.426
80+520.000	3111308.247	491188.046
80+530.000	3111298.379	491189.666
80+540.000	3111288.511	491191.286
80+550.000	3111278.643	491192.906
80+560.000	3111268.775	491194.526
80+570.000	3111258.907	491196.146
80+580.000	3111249.039	491197.766
80+590.000	3111239.171	491199.386
80+600.000	3111229.303	491201.006
80+610.000	3111219.435	491202.626
80+620.000	3111209.568	491204.246
80+630.000	3111199.7	491205.866
80+640.000	3111189.832	491207.486
80+650.000	3111179.964	491209.105
80+660.000	3111170.096	491210.725
80+670.000	3111160.228	491212.345
80+680.000	3111150.36	491213.965
80+690.000	3111140.492	491215.585
80+700.000	3111130.624	491217.205
80+710.000	3111120.756	491218.825
80+720.000	3111110.888	491220.445
80+730.000	3111101.021	491222.065
80+740.000	3111091.153	491223.685
80+750.000	3111081.285	491225.305
80+760.000	3111071.417	491226.925
80+770.000	3111061.549	491228.545
80+780.000	3111051.681	491230.165
80+790.000	3111041.813	491231.785
80+800.000	3111031.945	491233.405
80+810.000	3111022.077	491235.025
80+820.000	3111012.209	491236.645
80+830.000	3111002.341	491238.265
80+840.000	3110992.474	491239.885

Station	Northing	Easting
80+850.000	3110982.606	491241.505
80+860.000	3110972.738	491243.125
80+870.000	3110962.87	491244.745
80+880.000	3110953.002	491246.365
80+890.000	3110943.134	491247.985
80+900.000	3110933.266	491249.605
80+910.000	3110923.398	491251.225
80+920.000	3110913.53	491252.845
80+930.000	3110903.662	491254.465
80+940.000	3110893.794	491256.085
80+950.000	3110883.927	491257.705
80+960.000	3110874.059	491259.325
80+970.000	3110864.191	491260.945
80+980.000	3110854.323	491262.565
80+990.000	3110844.455	491264.185
81+000.000	3110834.587	491265.805
81+010.000	3110824.719	491267.425
81+020.000	3110814.851	491269.045
81+030.000	3110804.983	491270.665
81+040.000	3110795.115	491272.285
81+050.000	3110785.247	491273.905
81+060.000	3110775.38	491275.525
81+070.000	3110765.512	491277.145
81+080.000	3110755.644	491278.765
81+090.000	3110745.776	491280.385
81+100.000	3110735.908	491282.005
81+110.000	3110726.04	491283.625
81+120.000	3110716.172	491285.245
81+130.000	3110706.304	491286.865
81+140.000	3110696.436	491288.485
81+150.000	3110686.568	491290.105
81+160.000	3110676.7	491291.725
81+170.000	3110666.832	491293.345
81+180.000	3110656.965	491294.965
81+190.000	3110647.097	491296.585
81+200.000	3110637.229	491298.205
81+210.000	3110627.361	491299.825
81+220.000	3110617.493	491301.445
81+230.000	3110607.625	491303.065
81+240.000	3110597.757	491304.685
81+250.000	3110587.889	491306.305
81+260.000	3110578.021	491307.925
81+270.000	3110568.153	491309.545
81+280.000	3110558.285	491311.165
81+290.000	3110548.418	491312.784
81+300.000	3110538.55	491314.404
81+310.000	3110528.682	491316.024
81+320.000	3110518.814	491317.644
81+330.000	3110508.946	491319.264

Station	Northing	Easting
81+340.000	3110499.078	491320.884
81+350.000	3110489.21	491322.504
81+360.000	3110479.342	491324.124
81+370.000	3110469.474	491325.744
81+380.000	3110459.606	491327.364
81+390.000	3110449.738	491328.984
81+400.000	3110439.871	491330.604
81+410.000	3110430.003	491332.224
81+420.000	3110420.135	491333.844
81+430.000	3110410.267	491335.464
81+440.000	3110400.399	491337.084
81+450.000	3110390.531	491338.704
81+460.000	3110380.663	491340.324
81+470.000	3110370.795	491341.944
81+480.000	3110360.927	491343.564
81+490.000	3110351.059	491345.184
81+500.000	3110341.191	491346.804
81+510.000	3110331.324	491348.424
81+520.000	3110321.456	491350.044
81+530.000	3110311.588	491351.664
81+540.000	3110301.72	491353.284
81+550.000	3110291.852	491354.904
81+560.000	3110281.984	491356.524
81+570.000	3110272.116	491358.144
81+580.000	3110262.248	491359.764
81+590.000	3110252.38	491361.384
81+600.000	3110242.512	491363.004
81+610.000	3110232.644	491364.624
81+620.000	3110222.777	491366.244
81+630.000	3110212.909	491367.864
81+640.000	3110203.041	491369.484
81+650.000	3110193.173	491371.104
81+660.000	3110183.305	491372.724
81+670.000	3110173.437	491374.344
81+680.000	3110163.569	491375.964
81+690.000	3110153.701	491377.584
81+700.000	3110143.833	491379.204
81+710.000	3110133.965	491380.824
81+720.000	3110124.097	491382.444
81+730.000	3110114.23	491384.064
81+740.000	3110104.362	491385.684
81+750.000	3110094.494	491387.304
81+760.000	3110084.626	491388.924
81+770.000	3110074.758	491390.544
81+780.000	3110064.89	491392.164
81+790.000	3110055.022	491393.784
81+800.000	3110045.154	491395.404
81+810.000	3110035.286	491397.024
81+820.000	3110025.418	491398.644

Station	Northing	Easting
81+830.000	3110015.55	491400.264
81+840.000	3110005.683	491401.884
81+850.000	3109995.815	491403.504
81+860.000	3109985.947	491405.124
81+870.000	3109976.079	491406.744
81+880.000	3109966.211	491408.364
81+890.000	3109956.343	491409.984
81+900.000	3109946.475	491411.604
81+910.000	3109936.607	491413.224
81+920.000	3109926.739	491414.844
81+930.000	3109916.871	491416.463
81+940.000	3109907.003	491418.083
81+950.000	3109897.136	491419.703
81+960.000	3109887.268	491421.323
81+970.000	3109877.4	491422.943
81+980.000	3109867.532	491424.563
81+990.000	3109857.664	491426.183
82+000.000	3109847.796	491427.803
82+010.000	3109837.928	491429.423
82+020.000	3109828.06	491431.043
82+030.000	3109818.192	491432.663
82+040.000	3109808.324	491434.283
82+050.000	3109798.456	491435.903
82+060.000	3109788.588	491437.523
82+070.000	3109778.721	491439.143
82+080.000	3109768.853	491440.763
82+090.000	3109758.985	491442.383
82+100.000	3109749.117	491444.003
82+110.000	3109739.249	491445.623
82+120.000	3109729.381	491447.243
82+130.000	3109719.513	491448.863
82+140.000	3109709.645	491450.483
82+150.000	3109699.777	491452.103
82+160.000	3109689.909	491453.723
82+170.000	3109680.041	491455.343
82+180.000	3109670.174	491456.963
82+190.000	3109660.306	491458.583
82+200.000	3109650.438	491460.203
82+210.000	3109640.57	491461.823
82+220.000	3109630.702	491463.443
82+230.000	3109620.834	491465.063
82+240.000	3109610.966	491466.683
82+250.000	3109601.098	491468.303
82+260.000	3109591.23	491469.923
82+270.000	3109581.362	491471.543
82+280.000	3109571.494	491473.163
82+290.000	3109561.627	491474.783
82+300.000	3109551.759	491476.403
82+310.000	3109541.891	491478.023

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	41 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SCD/41

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
82+320.000	3109532.023	491479.643
82+330.000	3109522.155	491481.263
82+340.000	3109512.287	491482.883
82+350.000	3109502.419	491484.503
82+360.000	3109492.551	491486.123
82+370.000	3109482.683	491487.743
82+380.000	3109472.815	491489.363
82+390.000	3109462.947	491490.983
82+400.000	3109453.08	491492.603
82+410.000	3109443.212	491494.223
82+420.000	3109433.344	491495.843
82+430.000	3109423.476	491497.463
82+440.000	3109413.608	491499.083
82+450.000	3109403.74	491500.703
82+460.000	3109393.872	491502.323
82+470.000	3109384.004	491503.943
82+480.000	3109374.136	491505.563
82+490.000	3109364.268	491507.183
82+500.000	3109354.4	491508.803
82+510.000	3109344.533	491510.423
82+520.000	3109334.665	491512.043
82+530.000	3109324.797	491513.663
82+540.000	3109314.929	491515.283
82+550.000	3109305.061	491516.903
82+560.000	3109295.193	491518.523
82+570.000	3109285.325	491520.142
82+580.000	3109275.457	491521.762
82+590.000	3109265.589	491523.382
82+600.000	3109255.721	491525.002
82+610.000	3109245.853	491526.622
82+620.000	3109235.986	491528.242
82+630.000	3109226.118	491529.862
82+640.000	3109216.25	491531.482
82+650.000	3109206.382	491533.102
82+660.000	3109196.514	491534.722
82+670.000	3109186.646	491536.342
82+680.000	3109176.778	491537.962
82+690.000	3109166.91	491539.582
82+700.000	3109157.042	491541.202
82+710.000	3109147.174	491542.822
82+720.000	3109137.306	491544.442
82+730.000	3109127.439	491546.062
82+740.000	3109117.571	491547.682
82+750.000	3109107.703	491549.302
82+760.000	3109097.835	491550.922
82+770.000	3109087.967	491552.542
82+780.000	3109078.099	491554.162
82+790.000	3109068.231	491555.782
82+800.000	3109058.363	491557.402

Station	Northing	Easting
82+810.000	3109048.495	491559.022
82+820.000	3109038.627	491560.642
82+830.000	3109028.759	491562.262
82+840.000	3109018.892	491563.882
82+850.000	3109009.024	491565.502
82+860.000	3108999.156	491567.122
82+870.000	3108989.288	491568.742
82+880.000	3108979.42	491570.362
82+890.000	3108969.552	491571.982
82+900.000	3108959.684	491573.602
82+910.000	3108949.816	491575.222
82+920.000	3108939.948	491576.842
82+930.000	3108930.08	491578.462
82+940.000	3108920.212	491580.082
82+950.000	3108910.344	491581.702
82+960.000	3108900.477	491583.322
82+970.000	3108890.609	491584.942
82+980.000	3108880.741	491586.562
82+990.000	3108870.873	491588.182
83+000.000	3108861.005	491589.802
83+010.000	3108851.137	491591.422
83+020.000	3108841.269	491593.042
83+030.000	3108831.401	491594.662
83+040.000	3108821.533	491596.282
83+050.000	3108811.665	491597.902
83+060.000	3108801.797	491599.522
83+070.000	3108791.93	491601.142
83+080.000	3108782.062	491602.762
83+090.000	3108772.194	491604.382
83+100.000	3108762.326	491606.002
83+110.000	3108752.458	491607.622
83+120.000	3108742.59	491609.242
83+130.000	3108732.722	491610.862
83+140.000	3108722.854	491612.482
83+150.000	3108712.986	491614.102
83+160.000	3108703.118	491615.722
83+170.000	3108693.25	491617.342
83+180.000	3108683.383	491618.962
83+190.000	3108673.515	491620.582
83+200.000	3108663.647	491622.202
83+210.000	3108653.779	491623.821
83+220.000	3108643.911	491625.441
83+230.000	3108634.043	491627.061
83+240.000	3108624.175	491628.681
83+250.000	3108614.307	491630.301
83+260.000	3108604.439	491631.921
83+270.000	3108594.571	491633.541
83+280.000	3108584.703	491635.161
83+290.000	3108574.836	491636.781
83+300.000	3108564.968	491638.401
83+310.000	3108555.1	491640.021
83+320.000	3108545.232	491641.641

Station	Northing	Easting
83+330.000	3108535.364	491643.261
83+340.000	3108525.496	491644.881
83+350.000	3108515.628	491646.501
83+360.000	3108505.76	491648.121
83+370.000	3108495.892	491649.741
83+380.000	3108486.024	491651.361
83+390.000	3108476.156	491652.981
83+400.000	3108466.289	491654.601
83+410.000	3108456.421	491656.221
83+420.000	3108446.553	491657.841
83+430.000	3108436.685	491659.461
83+440.000	3108426.817	491661.081
83+450.000	3108416.949	491662.701
83+460.000	3108407.081	491664.321
83+470.000	3108397.213	491665.941
83+480.000	3108387.345	491667.561
83+490.000	3108377.477	491669.181
83+500.000	3108367.609	491670.801
83+510.000	3108357.742	491672.421
83+520.000	3108347.874	491674.041
83+530.000	3108338.006	491675.661
83+540.000	3108328.138	491677.281
83+550.000	3108318.27	491678.901
83+560.000	3108308.402	491680.521
83+570.000	3108298.534	491682.141
83+580.000	3108288.666	491683.761
83+590.000	3108278.798	491685.381
83+600.000	3108268.93	491687.001
83+610.000	3108259.062	491688.621
83+620.000	3108249.195	491690.241
83+630.000	3108239.327	491691.861
83+640.000	3108229.459	491693.481
83+650.000	3108219.591	491695.101
83+660.000	3108209.723	491696.721
83+670.000	3108199.855	491698.341
83+680.000	3108189.987	491699.961
83+690.000	3108180.119	491701.581
83+700.000	3108170.251	491703.201
83+710.000	3108160.383	491704.821
83+720.000	3108150.515	491706.441
83+730.000	3108140.647	491708.061
83+740.000	3108130.78	491709.681
83+750.000	3108120.912	491711.301
83+760.000	3108111.044	491712.921
83+770.000	3108101.176	491714.541
83+780.000	3108091.308	491716.161

Station	Northing	Easting
83+790.000	3108081.44	491717.781
83+800.000	3108071.572	491719.401
83+810.000	3108061.704	491721.021
83+820.000	3108051.836	491722.641
83+830.000	3108041.968	491724.261
83+840.000	3108032.1	491725.881
83+850.000	3108022.233	491727.5
83+860.000	3108012.365	491729.12
83+870.000	3108002.497	491730.74
83+880.000	3107992.629	491732.36
83+890.000	3107982.761	491733.98
83+900.000	3107972.893	491735.6
83+910.000	3107963.025	491737.22
83+920.000	3107953.157	491738.84
83+930.000	3107943.289	491740.46
83+940.000	3107933.421	491742.08
83+950.000	3107923.553	491743.7
83+960.000	3107913.686	491745.32
83+970.000	3107903.818	491746.94
83+980.000	3107893.95	491748.56
83+990.000	3107884.082	491750.18
84+000.000	3107874.214	491751.8
84+010.000	3107864.346	491753.42
84+020.000	3107854.478	491755.04
84+030.000	3107844.61	491756.66
84+040.000	3107834.742	491758.28
84+050.000	3107824.874	491759.9
84+060.000	3107815.006	491761.52
84+070.000	3107805.139	491763.14
84+080.000	3107795.271	491764.76
84+090.000	3107785.403	491766.38
84+100.000	3107775.535	491768
84+110.000	3107765.667	491769.62
84+120.000	3107755.799	491771.24
84+130.000	3107745.931	491772.86
84+140.000	3107736.063	491774.48
84+150.000	3107726.195	491776.1
84+160.000	3107716.327	491777.72
84+170.000	3107706.459	491779.34
84+180.000	3107696.588	491780.939
84+190.000	3107686.705	491782.46
84+200.000	3107676.808	491783.898
84+210.000	3107666.901	491785.254
84+220.000	3107656.982	491786.527
84+230.000	3107647.053	491787.717
84+240.000	3107637.115	491788.824
84+250.000	3107627.168	491789.849
84+260.000	3107617.212	491790.791
84+270.000	3107607.249	491791.649

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZIBERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	42 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/SCD/42

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
84+280.000	3107597.279	491792.425
84+290.000	3107587.303	491793.118
84+300.000	3107577.322	491793.727
84+310.000	3107567.336	491794.253
84+320.000	3107557.346	491794.696
84+330.000	3107547.352	491795.056
84+340.000	3107537.356	491795.332
84+350.000	3107527.358	491795.525
84+360.000	3107517.358	491795.635
84+370.000	3107507.358	491795.662
84+380.000	3107497.359	491795.605
84+390.000	3107487.36	491795.465
84+400.000	3107477.362	491795.241
84+410.000	3107467.367	491794.934
84+420.000	3107457.375	491794.544
84+430.000	3107447.386	491794.071
84+440.000	3107437.401	491793.514
84+450.000	3107427.422	491792.874
84+460.000	3107417.448	491792.151
84+470.000	3107407.481	491791.345
84+480.000	3107397.52	491790.456
84+490.000	3107387.568	491789.484
84+500.000	3107377.623	491788.429
84+510.000	3107367.688	491787.292
84+520.000	3107357.763	491786.071
84+530.000	3107347.848	491784.768
84+540.000	3107337.945	491783.382
84+550.000	3107328.053	491781.914
84+560.000	3107318.174	491780.363
84+570.000	3107308.309	491778.731
84+580.000	3107298.457	491777.016
84+590.000	3107288.62	491775.219
84+600.000	3107278.798	491773.34
84+610.000	3107268.992	491771.379
84+620.000	3107259.203	491769.336
84+630.000	3107249.431	491767.212
84+640.000	3107239.677	491765.007
84+650.000	3107229.942	491762.721
84+660.000	3107220.226	491760.353
84+670.000	3107210.531	491757.905
84+680.000	3107200.856	491755.376
84+690.000	3107191.202	491752.766
84+700.000	3107181.571	491750.076
84+710.000	3107171.962	491747.306
84+720.000	3107162.377	491744.456
84+730.000	3107152.816	491741.526
84+740.000	3107143.28	491738.516
84+750.000	3107133.769	491735.428
84+760.000	3107124.284	491732.26

Station	Northing	Easting
84+770.000	3107114.826	491729.013
84+780.000	3107105.395	491725.687
84+790.000	3107095.992	491722.283
84+800.000	3107086.618	491718.8
84+810.000	3107077.274	491715.24
84+820.000	3107067.959	491711.602
84+830.000	3107058.675	491707.886
84+840.000	3107049.422	491704.094
84+850.000	3107040.201	491700.224
84+860.000	3107031.013	491696.277
84+870.000	3107021.858	491692.254
84+880.000	3107012.737	491688.155
84+890.000	3107003.65	491683.98
84+900.000	3106994.598	491679.73
84+910.000	3106985.582	491675.404
84+920.000	3106976.603	491671.003
84+930.000	3106967.66	491666.528
84+940.000	3106958.755	491661.978
84+950.000	3106949.888	491657.354
84+960.000	3106941.06	491652.656
84+970.000	3106932.272	491647.885
84+980.000	3106923.524	491643.041
84+990.000	3106914.816	491638.125
85+000.000	3106906.149	491633.135
85+010.000	3106897.525	491628.074
85+020.000	3106888.943	491622.941
85+030.000	3106880.404	491617.737
85+040.000	3106871.903	491612.47
85+050.000	3106863.409	491607.193
85+060.000	3106854.914	491601.917
85+070.000	3106846.42	491596.64
85+080.000	3106837.925	491591.364
85+090.000	3106829.43	491586.087
85+100.000	3106820.936	491580.81
85+110.000	3106812.441	491575.534
85+120.000	3106803.947	491570.257
85+130.000	3106795.452	491564.981
85+140.000	3106786.957	491559.704
85+150.000	3106778.463	491554.428
85+160.000	3106769.968	491549.151
85+170.000	3106761.474	491543.875
85+180.000	3106752.979	491538.598
85+190.000	3106744.485	491533.321
85+200.000	3106735.99	491528.045
85+210.000	3106727.495	491522.768
85+220.000	3106719.001	491517.492
85+230.000	3106710.506	491512.215
85+240.000	3106702.012	491506.939
85+250.000	3106693.517	491501.662

Station	Northing	Easting
85+260.000	3106685.022	491496.386
85+270.000	3106676.528	491491.109
85+280.000	3106668.033	491485.832
85+290.000	3106659.539	491480.556
85+300.000	3106651.044	491475.279
85+310.000	3106642.55	491470.003
85+320.000	3106634.055	491464.726
85+330.000	3106625.56	491459.45
85+340.000	3106617.066	491454.173
85+350.000	3106608.571	491448.897
85+360.000	3106600.077	491443.62
85+370.000	3106591.582	491438.344
85+380.000	3106583.087	491433.067
85+390.000	3106574.593	491427.79
85+400.000	3106566.098	491422.514
85+410.000	3106557.604	491417.237
85+420.000	3106549.109	491411.961
85+430.000	3106540.614	491406.684
85+440.000	3106532.12	491401.408
85+450.000	3106523.625	491396.131
85+460.000	3106515.131	491390.855
85+470.000	3106506.636	491385.578
85+480.000	3106498.142	491380.301
85+490.000	3106489.647	491375.025
85+500.000	3106481.152	491369.748
85+510.000	3106472.658	491364.472
85+520.000	3106464.163	491359.195
85+530.000	3106455.669	491353.919
85+540.000	3106447.174	491348.642
85+550.000	3106438.679	491343.366
85+560.000	3106430.185	491338.089
85+570.000	3106421.69	491332.812
85+580.000	3106413.196	491327.536
85+590.000	3106404.701	491322.259
85+600.000	3106396.207	491316.983
85+610.000	3106387.712	491311.706
85+620.000	3106379.217	491306.43
85+630.000	3106370.723	491301.153
85+640.000	3106362.228	491295.877
85+650.000	3106353.734	491290.6
85+660.000	3106345.239	491285.323
85+670.000	3106336.744	491280.047
85+680.000	3106328.25	491274.77
85+690.000	3106319.755	491269.494
85+700.000	3106311.261	491264.217
85+710.000	3106302.766	491258.941
85+720.000	3106294.271	491253.664
85+730.000	3106285.777	491248.388
85+740.000	3106277.282	491243.111

Station	Northing	Easting
85+750.000	3106268.788	491237.835
85+760.000	3106260.293	491232.558
85+770.000	3106251.799	491227.281
85+780.000	3106243.304	491222.005
85+790.000	3106234.809	491216.728
85+800.000	3106226.315	491211.452
85+810.000	3106217.82	491206.175
85+820.000	3106209.326	491200.899
85+830.000	3106200.831	491195.622
85+840.000	3106192.336	491190.346
85+850.000	3106183.842	491185.069
85+860.000	3106175.347	491179.792
85+870.000	3106166.853	491174.516
85+880.000	3106158.358	491169.239
85+890.000	3106149.864	491163.963
85+900.000	3106141.369	491158.686
85+910.000	3106132.874	491153.41
85+920.000	3106124.38	491148.133
85+930.000	3106115.885	491142.857
85+940.000	3106107.391	491137.58
85+950.000	3106098.896	491132.303
85+960.000	3106090.401	491127.027
85+970.000	3106081.907	491121.75
85+980.000	3106073.412	491116.474
85+990.000	3106064.918	491111.197
86+000.000	3106056.423	491105.921
86+010.000	3106047.928	491100.644
86+020.000	3106039.434	491095.368
86+030.000	3106030.939	491090.091
86+040.000	3106022.445	491084.814
86+050.000	3106013.95	491079.538
86+060.000	3106005.456	491074.261
86+070.000	3105996.961	491068.985
86+080.000	3105988.466	491063.708
86+090.000	3105979.972	491058.432
86+100.000	3105971.477	491053.155
86+110.000	3105962.983	491047.879
86+120.000	3105954.488	491042.602
86+130.000	3105945.993	491037.326
86+140.000	3105937.499	491032.049
86+150.000	3105929.004	491026.772
86+160.000	3105920.51	491021.496
86+170.000	3105912.015	491016.219
86+180.000	3105903.521	491010.943
86+190.000	3105895.026	491005.666
86+200.000	3105886.531	491000.39
86+210.000	3105878.037	490995.113
86+220.000	3105869.542	490989.837
86+230.000	3105861.048	490984.56

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	43 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/SCD/43

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
86+240.000	3105852.553	490979.283
86+250.000	3105844.058	490974.007
86+260.000	3105835.564	490968.73
86+270.000	3105827.069	490963.454
86+280.000	3105818.575	490958.177
86+290.000	3105810.08	490952.901
86+300.000	3105801.585	490947.624
86+310.000	3105793.091	490942.348
86+320.000	3105784.596	490937.071
86+330.000	3105776.102	490931.794
86+340.000	3105767.607	490926.518
86+350.000	3105759.113	490921.241
86+360.000	3105750.618	490915.965
86+370.000	3105742.123	490910.688
86+380.000	3105733.629	490905.412
86+390.000	3105725.134	490900.135
86+400.000	3105716.64	490894.859
86+410.000	3105708.145	490889.582
86+420.000	3105699.65	490884.305
86+430.000	3105691.156	490879.029
86+440.000	3105682.661	490873.752
86+450.000	3105674.167	490868.476
86+460.000	3105665.672	490863.199
86+470.000	3105657.178	490857.923
86+480.000	3105648.683	490852.646
86+490.000	3105640.188	490847.37
86+500.000	3105631.694	490842.093
86+510.000	3105623.199	490836.817
86+520.000	3105614.705	490831.54
86+530.000	3105606.21	490826.263
86+540.000	3105597.715	490820.987
86+550.000	3105589.221	490815.71
86+560.000	3105580.726	490810.434
86+570.000	3105572.232	490805.157
86+580.000	3105563.737	490799.881
86+590.000	3105555.243	490794.604
86+600.000	3105546.748	490789.328
86+610.000	3105538.253	490784.051
86+620.000	3105529.759	490778.774
86+630.000	3105521.264	490773.498
86+640.000	3105512.77	490768.221
86+650.000	3105504.275	490762.945
86+660.000	3105495.78	490757.668
86+670.000	3105487.286	490752.392
86+680.000	3105478.791	490747.115
86+690.000	3105470.297	490741.839
86+700.000	3105461.802	490736.562
86+710.000	3105453.307	490731.285
86+720.000	3105444.813	490726.009

Station	Northing	Easting
86+730.000	3105436.318	490720.732
86+740.000	3105427.824	490715.456
86+750.000	3105419.329	490710.179
86+760.000	3105410.835	490704.903
86+770.000	3105402.34	490699.626
86+780.000	3105393.845	490694.35
86+790.000	3105385.351	490689.073
86+800.000	3105376.856	490683.796
86+810.000	3105368.362	490678.52
86+820.000	3105359.867	490673.243
86+830.000	3105351.37	490667.971
86+840.000	3105342.863	490662.714
86+850.000	3105334.346	490657.474
86+860.000	3105325.818	490652.252
86+870.000	3105317.28	490647.046
86+880.000	3105308.731	490641.857
86+890.000	3105300.172	490636.686
86+900.000	3105291.603	490631.532
86+910.000	3105283.023	490626.395
86+920.000	3105274.433	490621.275
86+930.000	3105265.833	490616.172
86+940.000	3105257.223	490611.086
86+950.000	3105248.602	490606.018
86+960.000	3105239.972	490600.967
86+970.000	3105231.331	490595.933
86+980.000	3105222.68	490590.917
86+990.000	3105214.02	490585.918
87+000.000	3105205.349	490580.936
87+010.000	3105196.668	490575.971
87+020.000	3105187.978	490571.024
87+030.000	3105179.277	490566.094
87+040.000	3105170.567	490561.182
87+050.000	3105161.847	490556.287
87+060.000	3105153.117	490551.41
87+070.000	3105144.378	490546.55
87+080.000	3105135.628	490541.707
87+090.000	3105126.869	490536.882
87+100.000	3105118.101	490532.075
87+110.000	3105109.322	490527.285
87+120.000	3105100.535	490522.513
87+130.000	3105091.737	490517.758
87+140.000	3105082.931	490513.021
87+150.000	3105074.114	490508.301
87+160.000	3105065.289	490503.599
87+170.000	3105056.454	490498.915
87+180.000	3105047.609	490494.248
87+190.000	3105038.756	490489.6
87+200.000	3105029.893	490484.968
87+210.000	3105021.02	490480.355

Station	Northing	Easting
87+220.000	3105012.139	490475.759
87+230.000	3105003.248	490471.182
87+240.000	3104994.349	490466.621
87+250.000	3104985.44	490462.079
87+260.000	3104976.522	490457.555
87+270.000	3104967.595	490453.048
87+280.000	3104958.659	490448.559
87+290.000	3104949.714	490444.089
87+300.000	3104940.76	490439.636
87+310.000	3104931.797	490435.201
87+320.000	3104922.826	490430.783
87+330.000	3104913.845	490426.384
87+340.000	3104904.856	490422.003
87+350.000	3104895.858	490417.64
87+360.000	3104886.852	490413.295
87+370.000	3104877.836	490408.968
87+380.000	3104868.813	490404.658
87+390.000	3104859.78	490400.367
87+400.000	3104850.739	490396.094
87+410.000	3104841.689	490391.839
87+420.000	3104832.631	490387.603
87+430.000	3104823.565	490383.384
87+440.000	3104814.49	490379.183
87+450.000	3104805.406	490375.001
87+460.000	3104796.315	490370.837
87+470.000	3104787.214	490366.691
87+480.000	3104778.106	490362.563
87+490.000	3104768.99	490358.453
87+500.000	3104759.865	490354.362
87+510.000	3104750.732	490350.289
87+520.000	3104741.591	490346.234
87+530.000	3104732.442	490342.198
87+540.000	3104723.285	490338.179
87+550.000	3104714.119	490334.18
87+560.000	3104704.946	490330.198
87+570.000	3104695.765	490326.235
87+580.000	3104686.576	490322.29
87+590.000	3104677.379	490318.364
87+600.000	3104668.174	490314.456
87+610.000	3104658.962	490310.566
87+620.000	3104649.742	490306.695
87+630.000	3104640.514	490302.842
87+640.000	3104631.278	490299.008
87+650.000	3104622.035	490295.192
87+660.000	3104612.784	490291.392
87+670.000	3104603.533	490287.595
87+680.000	3104594.282	490283.798
87+690.000	3104585.031	490280.001
87+700.000	3104575.78	490276.204

Station	Northing	Easting
87+710.000	3104566.529	490272.407
87+720.000	3104557.278	490268.61
87+730.000	3104548.027	490264.813
87+740.000	3104538.776	490261.016
87+750.000	3104529.525	490257.219
87+760.000	3104520.274	490253.422
87+770.000	3104511.023	490249.625
87+780.000	3104501.771	490245.828
87+790.000	3104492.52	490242.031
87+800.000	3104483.269	490238.234
87+810.000	3104474.018	490234.437
87+820.000	3104464.767	490230.64
87+830.000	3104455.516	490226.843
87+840.000	3104446.265	490223.046
87+850.000	3104437.014	490219.249
87+860.000	3104427.763	490215.452
87+870.000	3104418.512	490211.655
87+880.000	3104409.261	490207.858
87+890.000	3104400.01	490204.061
87+900.000	3104390.758	490200.264
87+910.000	3104381.507	490196.467
87+920.000	3104372.256	490192.67
87+930.000	3104363.005	490188.873
87+940.000	3104353.754	490185.075
87+950.000	3104344.503	490181.278
87+960.000	3104335.252	490177.481
87+970.000	3104326.001	490173.684
87+980.000	3104316.75	490169.887
87+990.000	3104307.499	490166.09
88+000.000	3104298.248	490162.293
88+010.000	3104288.997	490158.496
88+020.000	3104279.745	490154.699
88+030.000	3104270.494	490150.902
88+040.000	3104261.243	490147.105
88+050.000	3104251.992	490143.308
88+060.000	3104242.741	490139.511
88+070.000	3104233.49	490135.714
88+080.000	3104224.239	490131.917
88+090.000	3104214.988	490128.12
88+100.000	3104205.737	490124.323
88+110.000	3104196.486	490120.526
88+120.000	3104187.235	490116.729
88+130.000	3104177.984	490112.932
88+140.000	3104168.732	490109.135
88+150.000	3104159.481	490105.338
88+160.000	3104150.23	490101.541
88+170.000	3104140.979	490097.744
88+180.000	3104131.728	490093.947
88+190.000	3104122.477	490090.15

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZIBRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	44 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/SCD/44

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
88+200.000	3104113.226	490086.353
88+210.000	3104103.975	490082.556
88+220.000	3104094.724	490078.759
88+230.000	3104085.473	490074.962
88+240.000	3104076.222	490071.164
88+250.000	3104066.971	490067.367
88+260.000	3104057.72	490063.57
88+270.000	3104048.468	490059.773
88+280.000	3104039.217	490055.976
88+290.000	3104029.966	490052.179
88+300.000	3104020.715	490048.382
88+310.000	3104011.464	490044.585
88+320.000	3104002.213	490040.788
88+330.000	3103992.962	490036.991
88+340.000	3103983.711	490033.194
88+350.000	3103974.46	490029.397
88+360.000	3103965.209	490025.6
88+370.000	3103955.958	490021.803
88+380.000	3103946.707	490018.006
88+390.000	3103937.455	490014.209
88+400.000	3103928.204	490010.412
88+410.000	3103918.953	490006.615
88+420.000	3103909.702	490002.818
88+430.000	3103900.451	489999.021
88+440.000	3103891.2	489995.224
88+450.000	3103881.949	489991.427
88+460.000	3103872.698	489987.63
88+470.000	3103863.447	489983.833
88+480.000	3103854.196	489980.036
88+490.000	3103844.945	489976.239
88+500.000	3103835.694	489972.442
88+510.000	3103826.442	489968.645
88+520.000	3103817.191	489964.848
88+530.000	3103807.94	489961.051
88+540.000	3103798.689	489957.253
88+550.000	3103789.438	489953.456
88+560.000	3103780.187	489949.659
88+570.000	3103770.936	489945.862
88+580.000	3103761.685	489942.065
88+590.000	3103752.434	489938.268
88+600.000	3103743.183	489934.471
88+610.000	3103733.932	489930.674
88+620.000	3103724.681	489926.877
88+630.000	3103715.429	489923.08
88+640.000	3103706.178	489919.283
88+650.000	3103696.927	489915.486
88+660.000	3103687.676	489911.689
88+670.000	3103678.425	489907.892
88+680.000	3103669.174	489904.095

Station	Northing	Easting
88+690.000	3103659.923	489900.298
88+700.000	3103650.672	489896.501
88+710.000	3103641.421	489892.704
88+720.000	3103632.17	489888.907
88+730.000	3103622.919	489885.11
88+740.000	3103613.668	489881.313
88+750.000	3103604.416	489877.516
88+760.000	3103595.165	489873.719
88+770.000	3103585.914	489869.922
88+780.000	3103576.663	489866.125
88+790.000	3103567.412	489862.328
88+800.000	3103558.161	489858.531
88+810.000	3103548.91	489854.734
88+820.000	3103539.659	489850.937
88+830.000	3103530.408	489847.139
88+840.000	3103521.157	489843.342
88+850.000	3103511.906	489839.545
88+860.000	3103502.655	489835.748
88+870.000	3103493.403	489831.951
88+880.000	3103484.152	489828.154
88+890.000	3103474.901	489824.357
88+900.000	3103465.65	489820.56
88+910.000	3103456.399	489816.763
88+920.000	3103447.148	489812.966
88+930.000	3103437.897	489809.169
88+940.000	3103428.646	489805.372
88+950.000	3103419.395	489801.575
88+960.000	3103410.144	489797.778
88+970.000	3103400.893	489793.981
88+980.000	3103391.642	489790.184
88+990.000	3103382.39	489786.387
89+000.000	3103373.139	489782.59
89+010.000	3103363.888	489778.793
89+020.000	3103354.637	489774.996
89+030.000	3103345.385	489771.202
89+040.000	3103336.117	489767.445
89+050.000	3103326.831	489763.734
89+060.000	3103317.527	489760.07
89+070.000	3103308.204	489756.453
89+080.000	3103298.863	489752.882
89+090.000	3103289.505	489749.358
89+100.000	3103280.129	489745.88
89+110.000	3103270.736	489742.45
89+120.000	3103261.326	489739.066
89+130.000	3103251.899	489735.73
89+140.000	3103242.455	489732.441
89+150.000	3103232.995	489729.199
89+160.000	3103223.519	489726.005
89+170.000	3103214.027	489722.858

Station	Northing	Easting
89+180.000	3103204.52	489719.758
89+190.000	3103194.997	489716.706
89+200.000	3103185.459	489713.702
89+210.000	3103175.906	489710.745
89+220.000	3103166.338	489707.836
89+230.000	3103156.756	489704.975
89+240.000	3103147.16	489702.162
89+250.000	3103137.55	489699.397
89+260.000	3103127.926	489696.68
89+270.000	3103118.289	489694.011
89+280.000	3103108.638	489691.391
89+290.000	3103098.975	489688.818
89+300.000	3103089.299	489686.295
89+310.000	3103079.61	489683.819
89+320.000	3103069.909	489681.392
89+330.000	3103060.196	489679.014
89+340.000	3103050.471	489676.684
89+350.000	3103040.735	489674.402
89+360.000	3103030.987	489672.17
89+370.000	3103021.229	489669.986
89+380.000	3103011.459	489667.851
89+390.000	3103001.679	489665.765
89+400.000	3102991.889	489663.728
89+410.000	3102982.089	489661.74
89+420.000	3102972.278	489659.801
89+430.000	3102962.459	489657.91
89+440.000	3102952.63	489656.07
89+450.000	3102942.791	489654.278
89+460.000	3102932.944	489652.535
89+470.000	3102923.089	489650.842
89+480.000	3102913.225	489649.198
89+490.000	3102903.353	489647.603
89+500.000	3102893.473	489646.058
89+510.000	3102883.586	489644.562
89+520.000	3102873.691	489643.116
89+530.000	3102863.789	489641.719
89+540.000	3102853.88	489640.371
89+550.000	3102843.965	489639.073
89+560.000	3102834.043	489637.825
89+570.000	3102824.115	489636.626
89+580.000	3102814.181	489635.478
89+590.000	3102804.242	489634.378
89+600.000	3102794.297	489633.329
89+610.000	3102784.347	489632.329
89+620.000	3102774.392	489631.379
89+630.000	3102764.433	489630.478
89+640.000	3102754.469	489629.628
89+650.000	3102744.501	489628.827
89+660.000	3102734.53	489628.076

Station	Northing	Easting
89+670.000	3102724.554	489627.376
89+680.000	3102714.575	489626.724
89+690.000	3102704.594	489626.123
89+700.000	3102694.609	489625.572
89+710.000	3102684.621	489625.071
89+720.000	3102674.632	489624.619
89+730.000	3102664.64	489624.218
89+740.000	3102654.646	489623.867
89+750.000	3102644.65	489623.565
89+760.000	3102634.654	489623.314
89+770.000	3102624.656	489623.112
89+780.000	3102614.657	489622.957
89+790.000	3102604.658	489622.81
89+800.000	3102594.659	489622.664
89+810.000	3102584.66	489622.518
89+820.000	3102574.661	489622.372
89+830.000	3102564.662	489622.226
89+840.000	3102554.663	489622.079
89+850.000	3102544.664	489621.933
89+860.000	3102534.665	489621.787
89+870.000	3102524.666	489621.641
89+880.000	3102514.668	489621.494
89+890.000	3102504.669	489621.348
89+900.000	3102494.67	489621.202
89+910.000	3102484.671	489621.056
89+920.000	3102474.672	489620.91
89+930.000	3102464.673	489620.763
89+940.000	3102454.674	489620.617
89+950.000	3102444.675	489620.471
89+960.000	3102434.676	489620.325
89+970.000	3102424.677	489620.178
89+980.000	3102414.678	489620.032
89+990.000	3102404.679	489619.886
90+000.000	3102394.68	489619.74
90+010.000	3102384.681	489619.593
90+020.000	3102374.682	489619.447
90+030.000	3102364.684	489619.301
90+040.000	3102354.685	489619.155
90+050.000	3102344.686	489619.009
90+060.000	3102334.687	489618.862
90+070.000	3102324.688	489618.716
90+080.000	3102314.689	489618.57
90+090.000	3102304.69	489618.424
90+100.000	3102294.691	489618.277
90+110.000	3102284.692	489618.131
90+120.000	3102274.693	489617.985
90+130.000	3102264.694	489617.839
90+140.000	3102254.695	489617.693
90+150.000	3102244.696	489617.546

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZIBHUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	45 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/SCD/45

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
90+160.000	3102234.697	489617.4
90+170.000	3102224.699	489617.254
90+180.000	3102214.7	489617.108
90+190.000	3102204.701	489616.961
90+200.000	3102194.702	489616.815
90+210.000	3102184.703	489616.669
90+220.000	3102174.704	489616.523
90+230.000	3102164.705	489616.376
90+240.000	3102154.706	489616.23
90+250.000	3102144.707	489616.084
90+260.000	3102134.708	489615.938
90+270.000	3102124.709	489615.792
90+280.000	3102114.71	489615.645
90+290.000	3102104.711	489615.499
90+300.000	3102094.712	489615.353
90+310.000	3102084.713	489615.207
90+320.000	3102074.715	489615.06
90+330.000	3102064.716	489614.914
90+340.000	3102054.717	489614.768
90+350.000	3102044.718	489614.622
90+360.000	3102034.719	489614.476
90+370.000	3102024.72	489614.329
90+380.000	3102014.721	489614.183
90+390.000	3102004.722	489614.037
90+400.000	3101994.723	489613.891
90+410.000	3101984.724	489613.744
90+420.000	3101974.725	489613.598
90+430.000	3101964.726	489613.452
90+440.000	3101954.727	489613.306
90+450.000	3101944.728	489613.159
90+460.000	3101934.73	489613.013
90+470.000	3101924.731	489612.867
90+480.000	3101914.732	489612.721
90+490.000	3101904.733	489612.575
90+500.000	3101894.734	489612.428
90+510.000	3101884.735	489612.282
90+520.000	3101874.736	489612.136
90+530.000	3101864.737	489611.99
90+540.000	3101854.738	489611.843
90+550.000	3101844.739	489611.697
90+560.000	3101834.74	489611.551
90+570.000	3101824.741	489611.405
90+580.000	3101814.742	489611.258
90+590.000	3101804.743	489611.112
90+600.000	3101794.744	489610.966
90+610.000	3101784.746	489610.82
90+620.000	3101774.747	489610.674
90+630.000	3101764.748	489610.527
90+640.000	3101754.749	489610.381

Station	Northing	Easting
90+650.000	3101744.75	489610.235
90+660.000	3101734.751	489610.089
90+670.000	3101724.752	489609.942
90+680.000	3101714.753	489609.796
90+690.000	3101704.754	489609.65
90+700.000	3101694.755	489609.504
90+710.000	3101684.756	489609.358
90+720.000	3101674.757	489609.211
90+730.000	3101664.758	489609.065
90+740.000	3101654.759	489608.919
90+750.000	3101644.761	489608.773
90+760.000	3101634.762	489608.626
90+770.000	3101624.763	489608.48
90+780.000	3101614.764	489608.334
90+790.000	3101604.765	489608.188
90+800.000	3101594.766	489608.041
90+810.000	3101584.767	489607.895
90+820.000	3101574.768	489607.749
90+830.000	3101564.769	489607.603
90+840.000	3101554.77	489607.457
90+850.000	3101544.771	489607.31
90+860.000	3101534.772	489607.164
90+870.000	3101524.773	489607.018
90+880.000	3101514.774	489606.872
90+890.000	3101504.775	489606.725
90+900.000	3101494.777	489606.579
90+910.000	3101484.778	489606.433
90+920.000	3101474.779	489606.287
90+930.000	3101464.78	489606.141
90+940.000	3101454.781	489605.994
90+950.000	3101444.782	489605.848
90+960.000	3101434.783	489605.702
90+970.000	3101424.784	489605.556
90+980.000	3101414.785	489605.409
90+990.000	3101404.786	489605.263
91+000.000	3101394.787	489605.117
91+010.000	3101384.788	489604.971
91+020.000	3101374.789	489604.824
91+030.000	3101364.79	489604.678
91+040.000	3101354.792	489604.532
91+050.000	3101344.793	489604.386
91+060.000	3101334.794	489604.24
91+070.000	3101324.795	489604.093
91+080.000	3101314.796	489603.947
91+090.000	3101304.797	489603.801
91+100.000	3101294.798	489603.655
91+110.000	3101284.799	489603.508
91+120.000	3101274.8	489603.362
91+130.000	3101264.801	489603.216

Station	Northing	Easting
91+140.000	3101254.802	489603.07
91+150.000	3101244.803	489602.924
91+160.000	3101234.804	489602.777
91+170.000	3101224.805	489602.631
91+180.000	3101214.807	489602.485
91+190.000	3101204.808	489602.339
91+200.000	3101194.809	489602.192
91+210.000	3101184.81	489602.046
91+220.000	3101174.811	489601.9
91+230.000	3101164.812	489601.754
91+240.000	3101154.813	489601.607
91+250.000	3101144.814	489601.459
91+260.000	3101134.815	489601.301
91+270.000	3101124.817	489601.133
91+280.000	3101114.818	489600.955
91+290.000	3101104.82	489600.767
91+300.000	3101094.822	489600.569
91+310.000	3101084.824	489600.362
91+320.000	3101074.827	489600.144
91+330.000	3101064.829	489599.916
91+340.000	3101054.832	489599.678
91+350.000	3101044.835	489599.43
91+360.000	3101034.838	489599.172
91+370.000	3101024.842	489598.904
91+380.000	3101014.846	489598.626
91+390.000	3101004.85	489598.338
91+400.000	3100994.854	489598.041
91+410.000	3100984.859	489597.733
91+420.000	3100974.864	489597.415
91+430.000	3100964.87	489597.087
91+440.000	3100954.875	489596.749
91+450.000	3100944.881	489596.401
91+460.000	3100934.888	489596.043
91+470.000	3100924.894	489595.676
91+480.000	3100914.902	489595.298
91+490.000	3100904.909	489594.91
91+500.000	3100894.917	489594.512
91+510.000	3100884.925	489594.104
91+520.000	3100874.934	489593.686
91+530.000	3100864.943	489593.259
91+540.000	3100854.953	489592.821
91+550.000	3100844.963	489592.373
91+560.000	3100834.973	489591.915
91+570.000	3100824.984	489591.448
91+580.000	3100814.996	489590.97
91+590.000	3100805.008	489590.482
91+600.000	3100795.02	489589.984
91+610.000	3100785.033	489589.477
91+620.000	3100775.046	489588.959

Station	Northing	Easting
91+630.000	3100765.06	489588.431
91+640.000	3100755.075	489587.894
91+650.000	3100745.09	489587.346
91+660.000	3100735.105	489586.788
91+670.000	3100725.121	489586.221
91+680.000	3100715.138	489585.643
91+690.000	3100705.155	489585.056
91+700.000	3100695.173	489584.458
91+710.000	3100685.192	489583.851
91+720.000	3100675.211	489583.233
91+730.000	3100665.231	489582.606
91+740.000	3100655.251	489581.968
91+750.000	3100645.272	489581.321
91+760.000	3100635.293	489580.663
91+770.000	3100625.316	489579.996
91+780.000	3100615.339	489579.318
91+790.000	3100605.362	489578.631
91+800.000	3100595.387	489577.934
91+810.000	3100585.412	489577.226
91+820.000	3100575.438	489576.509
91+830.000	3100565.464	489575.782
91+840.000	3100555.49	489575.062
91+850.000	3100545.514	489574.37
91+860.000	3100535.536	489573.704
91+870.000	3100525.557	489573.065
91+880.000	3100515.575	489572.453
91+890.000	3100505.592	489571.869
91+900.000	3100495.608	489571.311
91+910.000	3100485.622	489570.78
91+920.000	3100475.635	489570.277
91+930.000	3100465.646	489569.8
91+940.000	3100455.656	489569.35
91+950.000	3100445.665	489568.927
91+960.000	3100435.673	489568.531
91+970.000	3100425.68	489568.163
91+980.000	3100415.686	489567.821
91+990.000	3100405.691	489567.506
92+000.000	3100395.695	489567.218
92+010.000	3100385.698	489566.958
92+020.000	3100375.701	489566.724
92+030.000	3100365.703	489566.517
92+040.000	3100355.705	489566.338
92+050.000	3100345.706	489566.185
92+060.000	3100335.707	489566.06
92+070.000	3100325.707	489565.961
92+080.000	3100315.707	489565.889
92+090.000	3100305.708	489565.845
92+100.000	3100295.708	489565.827
92+110.000	3100285.708	489565.837

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	46 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/SCD/46

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
92+120.000	3100275.708	489565.874
92+130.000	3100265.708	489565.937
92+140.000	3100255.708	489566.028
92+150.000	3100245.709	489566.145
92+160.000	3100235.71	489566.29
92+170.000	3100225.711	489566.462
92+180.000	3100215.713	489566.66
92+190.000	3100205.716	489566.886
92+200.000	3100195.719	489567.139
92+210.000	3100185.723	489567.419
92+220.000	3100175.728	489567.725
92+230.000	3100165.733	489568.059
92+240.000	3100155.74	489568.42
92+250.000	3100145.747	489568.808
92+260.000	3100135.756	489569.223
92+270.000	3100125.766	489569.665
92+280.000	3100115.777	489570.133
92+290.000	3100105.789	489570.629
92+300.000	3100095.803	489571.152
92+310.000	3100085.818	489571.702
92+320.000	3100075.835	489572.279
92+330.000	3100065.853	489572.882
92+340.000	3100055.873	489573.513
92+350.000	3100045.894	489574.171
92+360.000	3100035.918	489574.855
92+370.000	3100025.943	489575.567
92+380.000	3100015.971	489576.306
92+390.000	3100006	489577.071
92+400.000	3099996.031	489577.864
92+410.000	3099986.065	489578.683
92+420.000	3099976.101	489579.53
92+430.000	3099966.139	489580.402
92+440.000	3099956.178	489581.28
92+450.000	3099946.216	489582.158
92+460.000	3099936.255	489583.037
92+470.000	3099926.294	489583.915
92+480.000	3099916.332	489584.794
92+490.000	3099906.371	489585.672
92+500.000	3099896.41	489586.55
92+510.000	3099886.448	489587.429
92+520.000	3099876.487	489588.307
92+530.000	3099866.526	489589.186
92+540.000	3099856.564	489590.064
92+550.000	3099846.603	489590.942
92+560.000	3099836.641	489591.821
92+570.000	3099826.68	489592.699
92+580.000	3099816.719	489593.578
92+590.000	3099806.757	489594.456
92+600.000	3099796.796	489595.335

Station	Northing	Easting
92+610.000	3099786.835	489596.213
92+620.000	3099776.873	489597.091
92+630.000	3099766.912	489597.97
92+640.000	3099756.95	489598.836
92+650.000	3099746.986	489599.682
92+660.000	3099737.02	489600.509
92+670.000	3099727.052	489601.315
92+680.000	3099717.083	489602.102
92+690.000	3099707.113	489602.868
92+700.000	3099697.141	489603.615
92+710.000	3099687.167	489604.342
92+720.000	3099677.192	489605.049
92+730.000	3099667.216	489605.735
92+740.000	3099657.238	489606.402
92+750.000	3099647.259	489607.049
92+760.000	3099637.279	489607.676
92+770.000	3099627.297	489608.283
92+780.000	3099617.314	489608.87
92+790.000	3099607.33	489609.437
92+800.000	3099597.345	489609.984
92+810.000	3099587.359	489610.511
92+820.000	3099577.372	489611.019
92+830.000	3099567.384	489611.506
92+840.000	3099557.395	489611.973
92+850.000	3099547.405	489612.42
92+860.000	3099537.414	489612.847
92+870.000	3099527.422	489613.255
92+880.000	3099517.43	489613.642
92+890.000	3099507.437	489614.009
92+900.000	3099497.443	489614.356
92+910.000	3099487.448	489614.684
92+920.000	3099477.453	489614.991
92+930.000	3099467.457	489615.278
92+940.000	3099457.46	489615.546
92+950.000	3099447.463	489615.793
92+960.000	3099437.466	489616.02
92+970.000	3099427.468	489616.228
92+980.000	3099417.47	489616.415
92+990.000	3099407.471	489616.582
93+000.000	3099397.472	489616.73
93+010.000	3099387.473	489616.857
93+020.000	3099377.474	489616.965
93+030.000	3099367.474	489617.052
93+040.000	3099357.474	489617.119
93+050.000	3099347.475	489617.176
93+060.000	3099337.475	489617.233
93+070.000	3099327.475	489617.29
93+080.000	3099317.475	489617.346
93+090.000	3099307.475	489617.403

Station	Northing	Easting
93+100.000	3099297.475	489617.46
93+110.000	3099287.476	489617.517
93+120.000	3099277.476	489617.574
93+130.000	3099267.476	489617.63
93+140.000	3099257.476	489617.687
93+150.000	3099247.476	489617.744
93+160.000	3099237.476	489617.801
93+170.000	3099227.477	489617.858
93+180.000	3099217.477	489617.914
93+190.000	3099207.477	489617.971
93+200.000	3099197.477	489618.028
93+210.000	3099187.477	489618.085
93+220.000	3099177.477	489618.141
93+230.000	3099167.478	489618.198
93+240.000	3099157.478	489618.255
93+250.000	3099147.478	489618.312
93+260.000	3099137.478	489618.369
93+270.000	3099127.478	489618.425
93+280.000	3099117.478	489618.482
93+290.000	3099107.479	489618.539
93+300.000	3099097.479	489618.596
93+310.000	3099087.479	489618.653
93+320.000	3099077.479	489618.709
93+330.000	3099067.479	489618.766
93+340.000	3099057.479	489618.823
93+350.000	3099047.479	489618.88
93+360.000	3099037.48	489618.937
93+370.000	3099027.48	489618.993
93+380.000	3099017.48	489619.05
93+390.000	3099007.48	489619.107
93+400.000	3098997.48	489619.164
93+410.000	3098987.48	489619.22
93+420.000	3098977.481	489619.277
93+430.000	3098967.481	489619.334
93+440.000	3098957.481	489619.391
93+450.000	3098947.481	489619.448
93+460.000	3098937.481	489619.504
93+470.000	3098927.481	489619.561
93+480.000	3098917.482	489619.618
93+490.000	3098907.482	489619.675
93+500.000	3098897.482	489619.732
93+510.000	3098887.482	489619.788
93+520.000	3098877.482	489619.845
93+530.000	3098867.482	489619.902
93+540.000	3098857.483	489619.959
93+550.000	3098847.483	489620.016
93+560.000	3098837.483	489620.072
93+570.000	3098827.483	489620.129
93+580.000	3098817.483	489620.186

Station	Northing	Easting
93+590.000	3098807.483	489620.243
93+600.000	3098797.484	489620.299
93+610.000	3098787.484	489620.356
93+620.000	3098777.484	489620.413
93+630.000	3098767.484	489620.47
93+640.000	3098757.484	489620.527
93+650.000	3098747.484	489620.584
93+660.000	3098737.485	489620.657
93+670.000	3098727.485	489620.75
93+680.000	3098717.486	489620.862
93+690.000	3098707.487	489620.995
93+700.000	3098697.488	489621.147
93+710.000	3098687.489	489621.32
93+720.000	3098677.491	489621.513
93+730.000	3098667.493	489621.725
93+740.000	3098657.496	489621.958
93+750.000	3098647.499	489622.211
93+760.000	3098637.503	489622.483
93+770.000	3098627.507	489622.776
93+780.000	3098617.512	489623.088
93+790.000	3098607.518	489623.421
93+800.000	3098597.524	489623.774
93+810.000	3098587.531	489624.146
93+820.000	3098577.539	489624.539
93+830.000	3098567.547	489624.951
93+840.000	3098557.556	489625.384
93+850.000	3098547.567	489625.836
93+860.000	3098537.578	489626.309
93+870.000	3098527.59	489626.801
93+880.000	3098517.603	489627.314
93+890.000	3098507.617	489627.846
93+900.000	3098497.633	489628.398
93+910.000	3098487.649	489628.971
93+920.000	3098477.666	489629.563
93+930.000	3098467.685	489630.175
93+940.000	3098457.705	489630.807
93+950.000	3098447.727	489631.46
93+960.000	3098437.749	489632.132
93+970.000	3098427.773	489632.824
93+980.000	3098417.799	489633.536
93+990.000	3098407.825	489634.268
94+000.000	3098397.854	489635.02
94+010.000	3098387.883	489635.792
94+020.000	3098377.915	489636.583
94+030.000	3098367.948	489637.395
94+040.000	3098357.983	489638.227
94+050.000	3098348.019	489639.078
94+060.000	3098338.057	489639.95
94+070.000	3098328.097	489640.841

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	47 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/SCD/47

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
94+080.000	3098318.138	489641.753
94+090.000	3098308.182	489642.684
94+100.000	3098298.227	489643.635
94+110.000	3098288.274	489644.606
94+120.000	3098278.324	489645.597
94+130.000	3098268.375	489646.608
94+140.000	3098258.428	489647.639
94+150.000	3098248.484	489648.69
94+160.000	3098238.541	489649.76
94+170.000	3098228.601	489650.851
94+180.000	3098218.662	489651.961
94+190.000	3098208.727	489653.092
94+200.000	3098198.793	489654.242
94+210.000	3098188.862	489655.412
94+220.000	3098178.933	489656.601
94+230.000	3098169.006	489657.811
94+240.000	3098159.082	489659.041
94+250.000	3098149.16	489660.29
94+260.000	3098139.241	489661.559
94+270.000	3098129.325	489662.848
94+280.000	3098119.411	489664.157
94+290.000	3098109.499	489665.486
94+300.000	3098099.591	489666.834
94+310.000	3098089.685	489668.203
94+320.000	3098079.782	489669.591
94+330.000	3098069.881	489670.999
94+340.000	3098059.984	489672.426
94+350.000	3098050.089	489673.874
94+360.000	3098040.197	489675.341
94+370.000	3098030.308	489676.828
94+380.000	3098020.423	489678.335
94+390.000	3098010.54	489679.862
94+400.000	3098000.66	489681.408
94+410.000	3097990.783	489682.975
94+420.000	3097980.91	489684.561
94+430.000	3097971.04	489686.166
94+440.000	3097961.173	489687.792
94+450.000	3097951.309	489689.437
94+460.000	3097941.449	489691.102
94+470.000	3097931.591	489692.786
94+480.000	3097921.738	489694.49
94+490.000	3097911.887	489696.214
94+500.000	3097902.041	489697.958
94+510.000	3097892.197	489699.721
94+520.000	3097882.358	489701.505
94+530.000	3097872.521	489703.307
94+540.000	3097862.689	489705.13
94+550.000	3097852.86	489706.972
94+560.000	3097843.035	489708.833

Station	Northing	Easting
94+570.000	3097833.213	489710.715
94+580.000	3097823.396	489712.616
94+590.000	3097813.582	489714.536
94+600.000	3097803.772	489716.477
94+610.000	3097793.966	489718.437
94+620.000	3097784.164	489720.416
94+630.000	3097774.366	489722.415
94+640.000	3097764.572	489724.434
94+650.000	3097754.782	489726.472
94+660.000	3097744.996	489728.53
94+670.000	3097735.214	489730.607
94+680.000	3097725.436	489732.704
94+690.000	3097715.663	489734.821
94+700.000	3097705.893	489736.957
94+710.000	3097696.128	489739.112
94+720.000	3097686.368	489741.288
94+730.000	3097676.612	489743.482
94+740.000	3097666.86	489745.696
94+750.000	3097657.113	489747.93
94+760.000	3097647.37	489750.183
94+770.000	3097637.631	489752.456
94+780.000	3097627.898	489754.748
94+790.000	3097618.168	489757.059
94+800.000	3097608.444	489759.39
94+810.000	3097598.724	489761.741
94+820.000	3097589.009	489764.111
94+830.000	3097579.299	489766.5
94+840.000	3097569.593	489768.909
94+850.000	3097559.892	489771.337
94+860.000	3097550.196	489773.784
94+870.000	3097540.505	489776.251
94+880.000	3097530.819	489778.738
94+890.000	3097521.138	489781.243
94+900.000	3097511.461	489783.762
94+910.000	3097501.783	489786.281
94+920.000	3097492.106	489788.8
94+930.000	3097482.428	489791.32
94+940.000	3097472.751	489793.839
94+950.000	3097463.074	489796.358
94+960.000	3097453.396	489798.877
94+970.000	3097443.719	489801.397
94+980.000	3097434.041	489803.916
94+990.000	3097424.364	489806.435
95+000.000	3097414.686	489808.954
95+010.000	3097405.009	489811.474
95+020.000	3097395.331	489813.993
95+030.000	3097385.654	489816.512
95+040.000	3097375.976	489819.031
95+050.000	3097366.299	489821.551

Station	Northing	Easting
95+060.000	3097356.621	489824.07
95+070.000	3097346.944	489826.589
95+080.000	3097337.266	489829.108
95+090.000	3097327.589	489831.627
95+100.000	3097317.911	489834.147
95+110.000	3097308.234	489836.666
95+120.000	3097298.557	489839.185
95+130.000	3097288.879	489841.704
95+140.000	3097279.202	489844.224
95+150.000	3097269.524	489846.743
95+160.000	3097259.847	489849.262
95+170.000	3097250.169	489851.781
95+180.000	3097240.492	489854.301
95+190.000	3097230.814	489856.82
95+200.000	3097221.137	489859.339
95+210.000	3097211.459	489861.858
95+220.000	3097201.782	489864.378
95+230.000	3097192.104	489866.897
95+240.000	3097182.427	489869.416
95+250.000	3097172.749	489871.935
95+260.000	3097163.072	489874.454
95+270.000	3097153.394	489876.974
95+280.000	3097143.717	489879.493
95+290.000	3097134.04	489882.012
95+300.000	3097124.362	489884.531
95+310.000	3097114.685	489887.051
95+320.000	3097105.007	489889.57
95+330.000	3097095.33	489892.089
95+340.000	3097085.652	489894.608
95+350.000	3097075.975	489897.128
95+360.000	3097066.297	489899.647
95+370.000	3097056.62	489902.166
95+380.000	3097046.942	489904.685
95+390.000	3097037.265	489907.205
95+400.000	3097027.587	489909.724
95+410.000	3097017.91	489912.243
95+420.000	3097008.232	489914.762
95+430.000	3096998.555	489917.281
95+440.000	3096988.877	489919.801
95+450.000	3096979.2	489922.32
95+460.000	3096969.522	489924.839
95+470.000	3096959.845	489927.358
95+480.000	3096950.168	489929.878
95+490.000	3096940.49	489932.397
95+500.000	3096930.813	489934.916
95+510.000	3096921.135	489937.435
95+520.000	3096911.458	489939.955
95+530.000	3096901.78	489942.474
95+540.000	3096892.103	489944.993

Station	Northing	Easting
95+550.000	3096882.425	489947.512
95+560.000	3096872.748	489950.031
95+570.000	3096863.07	489952.551
95+580.000	3096853.393	489955.07
95+590.000	3096843.715	489957.589
95+600.000	3096834.038	489960.108
95+610.000	3096824.36	489962.628
95+620.000	3096814.683	489965.147
95+630.000	3096805.005	489967.666
95+640.000	3096795.328	489970.185
95+650.000	3096785.651	489972.705
95+660.000	3096775.973	489975.224
95+670.000	3096766.296	489977.743
95+680.000	3096756.618	489980.262
95+690.000	3096746.941	489982.782
95+700.000	3096737.263	489985.301
95+710.000	3096727.586	489987.82
95+720.000	3096717.908	489990.339
95+730.000	3096708.231	489992.858
95+740.000	3096698.553	489995.378
95+750.000	3096688.876	489997.897
95+760.000	3096679.198	490000.416
95+770.000	3096669.521	490002.935
95+780.000	3096659.843	490005.455
95+790.000	3096650.166	490007.974
95+800.000	3096640.488	490010.493
95+810.000	3096630.811	490013.012
95+820.000	3096621.134	490015.532
95+830.000	3096611.456	490018.051
95+840.000	3096601.779	490020.57
95+850.000	3096592.101	490023.089
95+860.000	3096582.424	490025.609
95+870.000	3096572.746	490028.128
95+880.000	3096563.069	490030.647
95+890.000	3096553.391	490033.166
95+900.000	3096543.714	490035.685
95+910.000	3096534.036	490038.205
95+920.000	3096524.359	490040.724
95+930.000	3096514.681	490043.243
95+940.000	3096505.004	490045.762
95+950.000	3096495.326	490048.282
95+960.000	3096485.649	490050.801
95+970.000	3096475.971	490053.32
95+980.000	3096466.294	490055.839
95+990.000	3096456.616	490058.359
96+000.000	3096446.939	490060.878
96+010.000	3096437.262	490063.397
96+020.000	3096427.584	490065.916
96+030.000	3096417.907	490068.436

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZIBRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	48 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/SCD/48

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
95+550.000	3096882.425	489947.512
95+560.000	3096872.748	489950.031
95+570.000	3096863.07	489952.551
95+580.000	3096853.393	489955.07
95+590.000	3096843.715	489957.589
95+600.000	3096834.038	489960.108
95+610.000	3096824.36	489962.628
95+620.000	3096814.683	489965.147
95+630.000	3096805.005	489967.666
95+640.000	3096795.328	489970.185
95+650.000	3096785.651	489972.705
95+660.000	3096775.973	489975.224
95+670.000	3096766.296	489977.743
95+680.000	3096756.618	489980.262
95+690.000	3096746.941	489982.782
95+700.000	3096737.263	489985.301
95+710.000	3096727.586	489987.82
95+720.000	3096717.908	489990.339
95+730.000	3096708.231	489992.858
95+740.000	3096698.553	489995.378
95+750.000	3096688.876	489997.897
95+760.000	3096679.198	490000.416
95+770.000	3096669.521	490002.935
95+780.000	3096659.843	490005.455
95+790.000	3096650.166	490007.974
95+800.000	3096640.488	490010.493
95+810.000	3096630.811	490013.012
95+820.000	3096621.134	490015.532
95+830.000	3096611.456	490018.051
95+840.000	3096601.779	490020.57
95+850.000	3096592.101	490023.089
95+860.000	3096582.424	490025.609
95+870.000	3096572.746	490028.128
95+880.000	3096563.069	490030.647
95+890.000	3096553.391	490033.166
95+900.000	3096543.714	490035.685
95+910.000	3096534.036	490038.205
95+920.000	3096524.359	490040.724
95+930.000	3096514.681	490043.243
95+940.000	3096505.004	490045.762
95+950.000	3096495.326	490048.282
95+960.000	3096485.649	490050.801
95+970.000	3096475.971	490053.32
95+980.000	3096466.294	490055.839
95+990.000	3096456.616	490058.359
96+000.000	3096446.939	490060.878
96+010.000	3096437.262	490063.397
96+020.000	3096427.584	490065.916
96+030.000	3096417.907	490068.436

Station	Northing	Easting
96+530.000	3095929.099	490172.658
96+540.000	3095919.225	490174.244
96+550.000	3095909.349	490175.809
96+560.000	3095899.469	490177.355
96+570.000	3095889.586	490178.882
96+580.000	3095879.7	490180.388
96+590.000	3095869.811	490181.875
96+600.000	3095859.92	490183.342
96+610.000	3095850.025	490184.789
96+620.000	3095840.127	490186.216
96+630.000	3095830.227	490187.624
96+640.000	3095820.324	490189.012
96+650.000	3095810.419	490190.389
96+660.000	3095800.514	490191.766
96+670.000	3095790.609	490193.143
96+680.000	3095780.705	490194.521
96+690.000	3095770.8	490195.898
96+700.000	3095760.895	490197.275
96+710.000	3095750.991	490198.652
96+720.000	3095741.086	490200.029
96+730.000	3095731.181	490201.407
96+740.000	3095721.276	490202.784
96+750.000	3095711.372	490204.161
96+760.000	3095701.467	490205.538
96+770.000	3095691.562	490206.915
96+780.000	3095681.658	490208.293
96+790.000	3095671.753	490209.67
96+800.000	3095661.848	490211.047
96+810.000	3095651.943	490212.424
96+820.000	3095642.039	490213.801
96+830.000	3095632.134	490215.179
96+840.000	3095622.229	490216.556
96+850.000	3095612.325	490217.933
96+860.000	3095602.42	490219.31
96+870.000	3095592.515	490220.687
96+880.000	3095582.61	490222.065
96+890.000	3095572.706	490223.442
96+900.000	3095562.801	490224.819
96+910.000	3095552.896	490226.196
96+920.000	3095542.992	490227.573
96+930.000	3095533.087	490228.951
96+940.000	3095523.182	490230.328
96+950.000	3095513.278	490231.705
96+960.000	3095503.373	490233.082
96+970.000	3095493.468	490234.459
96+980.000	3095483.563	490235.837
96+990.000	3095473.659	490237.214
97+000.000	3095463.754	490238.591
97+010.000	3095453.849	490239.968

Station	Northing	Easting
97+020.000	3095443.945	490241.345
97+030.000	3095434.04	490242.723
97+040.000	3095424.135	490244.1
97+050.000	3095414.23	490245.477
97+060.000	3095404.326	490246.854
97+070.000	3095394.421	490248.231
97+080.000	3095384.516	490249.609
97+090.000	3095374.612	490250.986
97+100.000	3095364.707	490252.363
97+110.000	3095354.802	490253.74
97+120.000	3095344.897	490255.117
97+130.000	3095334.993	490256.495
97+140.000	3095325.088	490257.872
97+150.000	3095315.183	490259.249
97+160.000	3095305.279	490260.626
97+170.000	3095295.374	490262.003
97+180.000	3095285.469	490263.381
97+190.000	3095275.564	490264.758
97+200.000	3095265.66	490266.135
97+210.000	3095255.755	490267.512
97+220.000	3095245.85	490268.889
97+230.000	3095235.946	490270.267
97+240.000	3095226.041	490271.644
97+250.000	3095216.136	490273.021
97+260.000	3095206.231	490274.398
97+270.000	3095196.327	490275.775
97+280.000	3095186.422	490277.153
97+290.000	3095176.517	490278.53
97+300.000	3095166.613	490279.907
97+310.000	3095156.708	490281.284
97+320.000	3095146.803	490282.661
97+330.000	3095136.898	490284.038
97+340.000	3095126.994	490285.416
97+350.000	3095117.089	490286.793
97+360.000	3095107.184	490288.17
97+370.000	3095097.28	490289.547
97+380.000	3095087.375	490290.924
97+390.000	3095077.47	490292.302
97+400.000	3095067.565	490293.679
97+410.000	3095057.661	490295.056
97+420.000	3095047.756	490296.433
97+430.000	3095037.851	490297.81
97+440.000	3095027.947	490299.188
97+450.000	3095018.042	490300.565
97+460.000	3095008.137	490301.942
97+470.000	3094998.232	490303.319
97+480.000	3094988.328	490304.696
97+490.000	3094978.423	490306.074
97+500.000	3094968.518	490307.451

Station	Northing	Easting
97+510.000	3094958.614	490308.828
97+520.000	3094948.709	490310.205
97+530.000	3094938.804	490311.582
97+540.000	3094928.899	490312.96
97+550.000	3094918.995	490314.337
97+560.000	3094909.09	490315.714
97+570.000	3094899.185	490317.091
97+580.000	3094889.281	490318.468
97+590.000	3094879.376	490319.846
97+600.000	3094869.471	490321.223
97+610.000	3094859.566	490322.6
97+620.000	3094849.662	490323.977
97+630.000	3094839.757	490325.354
97+640.000	3094829.852	490326.732
97+650.000	3094819.948	490328.109
97+660.000	3094810.043	490329.486
97+670.000	3094800.138	490330.863
97+680.000	3094790.234	490332.24
97+690.000	3094780.329	490333.618
97+700.000	3094770.424	490334.995
97+710.000	3094760.519	490336.372
97+720.000	3094750.615	490337.749
97+730.000	3094740.71	490339.126
97+740.000	3094730.805	490340.504
97+750.000	3094720.901	490341.881
97+760.000	3094710.996	490343.258
97+770.000	3094701.091	490344.635
97+780.000	3094691.186	490346.012
97+790.000	3094681.282	490347.39
97+800.000	3094671.377	490348.767
97+810.000	3094661.472	490350.144
97+820.000	3094651.568	490351.521
97+830.000	3094641.663	490352.898
97+840.000	3094631.758	490354.276
97+850.000	3094621.853	490355.653
97+860.000	3094611.949	490357.03
97+870.000	3094602.044	490358.407
97+880.000	3094592.139	490359.784
97+890.000	3094582.235	490361.162
97+900.000	3094572.33	490362.539
97+910.000	3094562.425	490363.916
97+920.000	3094552.52	490365.293
97+930.000	3094542.616	490366.67
97+940.000	3094532.711	490368.048
97+950.000	3094522.806	490369.425
97+960.000	3094512.902	490370.802
97+970.000	3094502.997	490372.179
97+980.000	3094493.092	490373.556
97+990.000	3094483.187	490374.934

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.,(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	49 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/SCD/49

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
97+510.000	3094958.614	490308.828
97+520.000	3094948.709	490310.205
97+530.000	3094938.804	490311.582
97+540.000	3094928.899	490312.96
97+550.000	3094918.995	490314.337
97+560.000	3094909.09	490315.714
97+570.000	3094899.185	490317.091
97+580.000	3094889.281	490318.468
97+590.000	3094879.376	490319.846
97+600.000	3094869.471	490321.223
97+610.000	3094859.566	490322.6
97+620.000	3094849.662	490323.977
97+630.000	3094839.757	490325.354
97+640.000	3094829.852	490326.732
97+650.000	3094819.948	490328.109
97+660.000	3094810.043	490329.486
97+670.000	3094800.138	490330.863
97+680.000	3094790.234	490332.24
97+690.000	3094780.329	490333.618
97+700.000	3094770.424	490334.995
97+710.000	3094760.519	490336.372
97+720.000	3094750.615	490337.749
97+730.000	3094740.71	490339.126
97+740.000	3094730.805	490340.504
97+750.000	3094720.901	490341.881
97+760.000	3094710.996	490343.258
97+770.000	3094701.091	490344.635
97+780.000	3094691.186	490346.012
97+790.000	3094681.282	490347.39
97+800.000	3094671.377	490348.767
97+810.000	3094661.472	490350.144
97+820.000	3094651.568	490351.521
97+830.000	3094641.663	490352.898
97+840.000	3094631.758	490354.276
97+850.000	3094621.853	490355.653
97+860.000	3094611.949	490357.03
97+870.000	3094602.044	490358.407
97+880.000	3094592.139	490359.784
97+890.000	3094582.235	490361.162
97+900.000	3094572.33	490362.539
97+910.000	3094562.425	490363.916
97+920.000	3094552.52	490365.293
97+930.000	3094542.616	490366.67
97+940.000	3094532.711	490368.048
97+950.000	3094522.806	490369.425
97+960.000	3094512.902	490370.802
97+970.000	3094502.997	490372.179
97+980.000	3094493.092	490373.556
97+990.000	3094483.187	490374.934

Station	Northing	Easting
98+490.000	3093987.952	490443.794
98+500.000	3093978.047	490445.171
98+510.000	3093968.142	490446.548
98+520.000	3093958.238	490447.925
98+530.000	3093948.333	490449.302
98+540.000	3093938.428	490450.68
98+550.000	3093928.524	490452.057
98+560.000	3093918.619	490453.434
98+570.000	3093908.714	490454.811
98+580.000	3093898.809	490456.188
98+590.000	3093888.905	490457.565
98+600.000	3093879	490458.943
98+610.000	3093869.095	490460.32
98+620.000	3093859.191	490461.697
98+630.000	3093849.286	490463.074
98+640.000	3093839.381	490464.451
98+650.000	3093829.476	490465.829
98+660.000	3093819.572	490467.206
98+670.000	3093809.667	490468.583
98+680.000	3093799.762	490469.96
98+690.000	3093789.858	490471.337
98+700.000	3093779.953	490472.715
98+710.000	3093770.048	490474.092
98+720.000	3093760.143	490475.469
98+730.000	3093750.239	490476.846
98+740.000	3093740.334	490478.223
98+750.000	3093730.429	490479.601
98+760.000	3093720.525	490480.978
98+770.000	3093710.62	490482.355
98+780.000	3093700.715	490483.732
98+790.000	3093690.81	490485.109
98+800.000	3093680.906	490486.487
98+810.000	3093671.001	490487.864
98+820.000	3093661.096	490489.241
98+830.000	3093651.192	490490.618
98+840.000	3093641.287	490491.995
98+850.000	3093631.382	490493.373
98+860.000	3093621.477	490494.75
98+870.000	3093611.573	490496.127
98+880.000	3093601.668	490497.504
98+890.000	3093591.763	490498.881
98+900.000	3093581.859	490500.259
98+910.000	3093571.954	490501.636
98+920.000	3093562.049	490503.013
98+930.000	3093552.144	490504.39
98+940.000	3093542.24	490505.767
98+950.000	3093532.335	490507.145
98+960.000	3093522.43	490508.522
98+970.000	3093512.526	490509.899

Station	Northing	Easting
98+980.000	3093502.621	490511.276
98+990.000	3093492.716	490512.653
99+000.000	3093482.811	490514.031
99+010.000	3093472.907	490515.408
99+020.000	3093463.002	490516.785
99+030.000	3093453.097	490518.162
99+040.000	3093443.193	490519.539
99+050.000	3093433.288	490520.917
99+060.000	3093423.383	490522.294
99+070.000	3093413.479	490523.671
99+080.000	3093403.574	490525.048
99+090.000	3093393.669	490526.425
99+100.000	3093383.764	490527.803
99+110.000	3093373.86	490529.18
99+120.000	3093363.955	490530.557
99+130.000	3093354.05	490531.934
99+140.000	3093344.146	490533.311
99+150.000	3093334.241	490534.689
99+160.000	3093324.336	490536.066
99+170.000	3093314.431	490537.443
99+180.000	3093304.527	490538.82
99+190.000	3093294.622	490540.197
99+200.000	3093284.717	490541.575
99+210.000	3093274.813	490542.952
99+220.000	3093264.908	490544.329
99+230.000	3093255.003	490545.706
99+240.000	3093245.098	490547.083
99+250.000	3093235.194	490548.461
99+260.000	3093225.289	490549.838
99+270.000	3093215.384	490551.215
99+280.000	3093205.48	490552.592
99+290.000	3093195.575	490553.969
99+300.000	3093185.67	490555.347
99+310.000	3093175.765	490556.724
99+320.000	3093165.861	490558.101
99+330.000	3093155.956	490559.478
99+340.000	3093146.051	490560.855
99+350.000	3093136.147	490562.233
99+360.000	3093126.242	490563.61
99+370.000	3093116.337	490564.987
99+380.000	3093106.432	490566.364
99+390.000	3093096.528	490567.741
99+400.000	3093086.623	490569.119
99+410.000	3093076.718	490570.496
99+420.000	3093066.814	490571.873
99+430.000	3093056.909	490573.25
99+440.000	3093047.004	490574.627
99+450.000	3093037.099	490576.005
99+460.000	3093027.195	490577.382

Station	Northing	Easting
99+470.000	3093017.29	490578.759
99+480.000	3093007.385	490580.136
99+490.000	3092997.481	490581.513
99+500.000	3092987.576	490582.891
99+510.000	3092977.671	490584.268
99+520.000	3092967.766	490585.645
99+530.000	3092957.862	490587.022
99+540.000	3092947.957	490588.399
99+550.000	3092938.052	490589.777
99+560.000	3092928.148	490591.154
99+570.000	3092918.243	490592.531
99+580.000	3092908.338	490593.908
99+590.000	3092898.433	490595.285
99+600.000	3092888.529	490596.663
99+610.000	3092878.624	490598.04
99+620.000	3092868.719	490599.417
99+630.000	3092858.815	490600.794
99+640.000	3092848.91	490602.171
99+650.000	3092839.005	490603.549
99+660.000	3092829.1	490604.926
99+670.000	3092819.196	490606.303
99+680.000	3092809.291	490607.68
99+690.000	3092799.386	490609.057
99+700.000	3092789.482	490610.435
99+710.000	3092779.577	490611.812
99+720.000	3092769.672	490613.189
99+730.000	3092759.768	490614.566
99+740.000	3092749.863	490615.943
99+750.000	3092739.958	490617.321
99+760.000	3092730.053	490618.698
99+770.000	3092720.149	490620.075
99+780.000	3092710.244	490621.452
99+790.000	3092700.339	490622.829
99+800.000	3092690.435	490624.207
99+810.000	3092680.53	490625.584
99+820.000	3092670.625	490626.961
99+830.000	3092660.72	490628.338
99+840.000	3092650.816	490629.715
99+850.000	3092640.911	490631.092
99+860.000	3092631.006	490632.47
99+870.000	3092621.102	490633.847
99+880.000	3092611.197	490635.224
99+890.000	3092601.292	490636.601
99+900.000	3092591.387	490637.978
99+910.000	3092581.483	490639.356
99+920.000	3092571.578	490640.733
99+930.000	3092561.673	490642.11
99+940.000	3092551.769	490643.487
99+950.000	3092541.864	490644.864

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph. 051-4938233-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	50 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/SCD/50

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
99+960.000	3092531.959	490646.242
99+970.000	3092522.054	490647.619
99+980.000	3092512.15	490648.996
99+990.000	3092502.245	490650.373
100+000.000	3092492.34	490651.75
100+010.000	3092482.436	490653.128
100+020.000	3092472.531	490654.505
100+030.000	3092462.626	490655.882
100+040.000	3092452.721	490657.259
100+050.000	3092442.817	490658.636
100+060.000	3092432.912	490660.014
100+070.000	3092423.007	490661.391
100+080.000	3092413.103	490662.768
100+090.000	3092403.198	490664.145
100+100.000	3092393.293	490665.522
100+110.000	3092383.388	490666.9
100+120.000	3092373.484	490668.277
100+130.000	3092363.579	490669.654
100+140.000	3092353.674	490671.031
100+150.000	3092343.77	490672.408
100+160.000	3092333.865	490673.786
100+170.000	3092323.96	490675.163
100+180.000	3092314.055	490676.54
100+190.000	3092304.151	490677.917
100+200.000	3092294.246	490679.294
100+210.000	3092284.341	490680.672
100+220.000	3092274.437	490682.049
100+230.000	3092264.532	490683.426
100+240.000	3092254.627	490684.803
100+250.000	3092244.722	490686.18
100+260.000	3092234.818	490687.558
100+270.000	3092224.913	490688.935
100+280.000	3092215.008	490690.312
100+290.000	3092205.104	490691.689
100+300.000	3092195.199	490693.066
100+310.000	3092185.294	490694.444
100+320.000	3092175.389	490695.821
100+330.000	3092165.485	490697.198
100+340.000	3092155.58	490698.575
100+350.000	3092145.675	490699.952
100+360.000	3092135.771	490701.33
100+370.000	3092125.866	490702.707
100+380.000	3092115.961	490704.084
100+390.000	3092106.056	490705.461
100+400.000	3092096.152	490706.838
100+410.000	3092086.247	490708.216
100+420.000	3092076.342	490709.593
100+430.000	3092066.438	490710.97
100+440.000	3092056.533	490712.347

Station	Northing	Easting
100+450.000	3092046.628	490713.724
100+460.000	3092036.724	490715.102
100+470.000	3092026.819	490716.479
100+480.000	3092016.914	490717.856
100+490.000	3092007.009	490719.233
100+500.000	3091997.105	490720.61
100+510.000	3091987.2	490721.988
100+520.000	3091977.295	490723.365
100+530.000	3091967.391	490724.742
100+540.000	3091957.486	490726.119
100+550.000	3091947.581	490727.496
100+560.000	3091937.676	490728.874
100+570.000	3091927.772	490730.251
100+580.000	3091917.867	490731.628
100+590.000	3091907.962	490733.005
100+600.000	3091898.058	490734.382
100+610.000	3091888.153	490735.76
100+620.000	3091878.248	490737.137
100+630.000	3091868.343	490738.514
100+640.000	3091858.439	490739.891
100+650.000	3091848.534	490741.268
100+660.000	3091838.629	490742.646
100+670.000	3091828.725	490744.023
100+680.000	3091818.82	490745.4
100+690.000	3091808.915	490746.777
100+700.000	3091799.01	490748.154
100+710.000	3091789.106	490749.532
100+720.000	3091779.201	490750.909
100+730.000	3091769.296	490752.286
100+740.000	3091759.392	490753.663
100+750.000	3091749.487	490755.04
100+760.000	3091739.582	490756.418
100+770.000	3091729.677	490757.795
100+780.000	3091719.773	490759.172
100+790.000	3091709.868	490760.549
100+800.000	3091699.963	490761.926
100+810.000	3091690.059	490763.304
100+820.000	3091680.154	490764.681
100+830.000	3091670.249	490766.058
100+840.000	3091660.344	490767.435
100+850.000	3091650.44	490768.812
100+860.000	3091640.535	490770.19
100+870.000	3091630.63	490771.567
100+880.000	3091620.726	490772.944
100+890.000	3091610.821	490774.321
100+900.000	3091600.916	490775.698
100+910.000	3091591.011	490777.076
100+920.000	3091581.107	490778.453
100+930.000	3091571.202	490779.83

Station	Northing	Easting
100+940.000	3091561.297	490781.207
100+950.000	3091551.393	490782.584
100+960.000	3091541.488	490783.962
100+970.000	3091531.583	490785.339
100+980.000	3091521.678	490786.716
100+990.000	3091511.774	490788.093
101+000.000	3091501.869	490789.47
101+010.000	3091491.964	490790.848
101+020.000	3091482.06	490792.225
101+030.000	3091472.155	490793.602
101+040.000	3091462.25	490794.979
101+050.000	3091452.345	490796.356
101+060.000	3091442.441	490797.734
101+070.000	3091432.536	490799.111
101+080.000	3091422.631	490800.488
101+090.000	3091412.727	490801.865
101+100.000	3091402.822	490803.242
101+110.000	3091392.917	490804.619
101+120.000	3091383.013	490805.997
101+130.000	3091373.108	490807.374
101+140.000	3091363.203	490808.751
101+150.000	3091353.298	490810.128
101+160.000	3091343.394	490811.505
101+170.000	3091333.489	490812.883
101+180.000	3091323.584	490814.26
101+190.000	3091313.68	490815.637
101+200.000	3091303.775	490817.014
101+210.000	3091293.87	490818.391
101+220.000	3091283.965	490819.769
101+230.000	3091274.061	490821.146
101+240.000	3091264.156	490822.523
101+250.000	3091254.251	490823.9
101+260.000	3091244.347	490825.277
101+270.000	3091234.442	490826.655
101+280.000	3091224.537	490828.032
101+290.000	3091214.632	490829.409
101+300.000	3091204.728	490830.786
101+310.000	3091194.823	490832.163
101+320.000	3091184.918	490833.541
101+330.000	3091175.014	490834.918
101+340.000	3091165.109	490836.295
101+350.000	3091155.204	490837.672
101+360.000	3091145.299	490839.049
101+370.000	3091135.395	490840.427
101+380.000	3091125.49	490841.804
101+390.000	3091115.585	490843.181
101+400.000	3091105.681	490844.558
101+410.000	3091095.776	490845.935
101+420.000	3091085.871	490847.313

Station	Northing	Easting
101+430.000	3091075.966	490848.69
101+440.000	3091066.062	490850.067
101+450.000	3091056.157	490851.444
101+460.000	3091046.252	490852.821
101+470.000	3091036.348	490854.199
101+480.000	3091026.443	490855.576
101+490.000	3091016.538	490856.953
101+500.000	3091006.633	490858.33
101+510.000	3090996.729	490859.707
101+520.000	3090986.824	490861.085
101+530.000	3090976.919	490862.462
101+540.000	3090967.015	490863.839
101+550.000	3090957.11	490865.216
101+560.000	3090947.205	490866.593
101+570.000	3090937.3	490867.971
101+580.000	3090927.396	490869.348
101+590.000	3090917.491	490870.725
101+600.000	3090907.586	490872.102
101+610.000	3090897.682	490873.479
101+620.000	3090887.777	490874.857
101+630.000	3090877.872	490876.234
101+640.000	3090867.967	490877.611
101+650.000	3090858.063	490878.988
101+660.000	3090848.158	490880.365
101+670.000	3090838.253	490881.743
101+680.000	3090828.349	490883.12
101+690.000	3090818.444	490884.497
101+700.000	3090808.539	490885.874
101+710.000	3090798.634	490887.251
101+720.000	3090788.73	490888.629
101+730.000	3090778.825	490890.006
101+740.000	3090768.92	490891.383
101+750.000	3090759.016	490892.76
101+760.000	3090749.111	490894.137
101+770.000	3090739.206	490895.515
101+780.000	3090729.301	490896.892
101+790.000	3090719.397	490898.269
101+800.000	3090709.492	490899.646
101+810.000	3090699.587	490901.023
101+820.000	3090689.683	490902.401
101+830.000	3090679.778	490903.778
101+840.000	3090669.873	490905.155
101+850.000	3090659.969	490906.532
101+860.000	3090650.064	490907.909
101+870.000	3090640.159	490909.287
101+880.000	3090630.254	490910.664
101+890.000	3090620.35	490912.041
101+900.000	3090610.445	490913.418
101+910.000	3090600.54	490914.795

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	51 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/SCD/51

Alignment Incremental Station Report
NOK KUNDI MASH KHEL
Start: 0+000.00, End: 102+950.726
Station Increment: 10.00

Station	Northing	Easting
101+920.000	3090590.636	490916.173
101+930.000	3090580.731	490917.55
101+940.000	3090570.826	490918.927
101+950.000	3090560.921	490920.304
101+960.000	3090551.017	490921.681
101+970.000	3090541.112	490923.059
101+980.000	3090531.207	490924.436
101+990.000	3090521.303	490925.813
102+000.000	3090511.398	490927.19
102+010.000	3090501.493	490928.567
102+020.000	3090491.588	490929.945
102+030.000	3090481.684	490931.322
102+040.000	3090471.779	490932.699
102+050.000	3090461.874	490934.076
102+060.000	3090451.97	490935.453
102+070.000	3090442.065	490936.831
102+080.000	3090432.16	490938.208
102+090.000	3090422.255	490939.585
102+100.000	3090412.351	490940.962
102+110.000	3090402.446	490942.339
102+120.000	3090392.541	490943.717
102+130.000	3090382.637	490945.094
102+140.000	3090372.732	490946.471
102+150.000	3090362.827	490947.848
102+160.000	3090352.922	490949.225
102+170.000	3090343.018	490950.603
102+180.000	3090333.113	490951.98
102+190.000	3090323.208	490953.357
102+200.000	3090313.304	490954.734
102+210.000	3090303.399	490956.111
102+220.000	3090293.494	490957.489
102+230.000	3090283.589	490958.866
102+240.000	3090273.685	490960.243
102+250.000	3090263.78	490961.62
102+260.000	3090253.875	490962.997
102+270.000	3090243.971	490964.375
102+280.000	3090234.066	490965.752
102+290.000	3090224.161	490967.129
102+300.000	3090214.256	490968.506
102+310.000	3090204.352	490969.883
102+320.000	3090194.447	490971.261
102+330.000	3090184.542	490972.638
102+340.000	3090174.638	490974.015
102+350.000	3090164.733	490975.392
102+360.000	3090154.828	490976.769
102+370.000	3090144.923	490978.146
102+380.000	3090135.019	490979.524
102+390.000	3090125.114	490980.901
102+400.000	3090115.209	490982.278

Station	Northing	Easting
102+410.000	3090105.305	490983.655
102+420.000	3090095.4	490985.032
102+430.000	3090085.495	490986.41
102+440.000	3090075.59	490987.787
102+450.000	3090065.686	490989.164
102+460.000	3090055.781	490990.541
102+470.000	3090045.876	490991.918
102+480.000	3090035.972	490993.296
102+490.000	3090026.067	490994.673
102+500.000	3090016.162	490996.05
102+510.000	3090006.258	490997.427
102+520.000	3089996.353	490998.804
102+530.000	3089986.448	491000.182
102+540.000	3089976.543	491001.559
102+550.000	3089966.639	491002.936
102+560.000	3089956.734	491004.313
102+570.000	3089946.829	491005.69
102+580.000	3089936.925	491007.068
102+590.000	3089927.02	491008.445
102+600.000	3089917.115	491009.822
102+610.000	3089907.21	491011.199
102+620.000	3089897.306	491012.576
102+630.000	3089887.401	491013.954
102+640.000	3089877.496	491015.331
102+650.000	3089867.592	491016.708
102+660.000	3089857.687	491018.085
102+670.000	3089847.778	491019.43
102+680.000	3089837.853	491020.655
102+690.000	3089827.914	491021.757
102+700.000	3089817.962	491022.734
102+710.000	3089807.998	491023.586
102+720.000	3089798.025	491024.314
102+730.000	3089788.043	491024.917
102+740.000	3089778.055	491025.396
102+750.000	3089768.061	491025.749
102+760.000	3089758.064	491025.978
102+770.000	3089748.064	491026.081
102+780.000	3089738.064	491026.06
102+790.000	3089728.066	491025.913
102+800.000	3089718.069	491025.642
102+810.000	3089708.077	491025.245
102+820.000	3089698.091	491024.724
102+830.000	3089688.112	491024.078
102+840.000	3089678.142	491023.308
102+850.000	3089668.182	491022.412
102+860.000	3089658.234	491021.393
102+870.000	3089648.3	491020.249
102+880.000	3089638.381	491018.981
102+890.000	3089628.478	491017.589

Station	Northing	Easting
102+900.000	3089618.593	491016.074
102+910.000	3089608.716	491014.51
102+920.000	3089598.839	491012.947
102+930.000	3089588.962	491011.384
102+940.000	3089579.085	491009.82
102+950.000	3089569.208	491008.257
102+950.726	3089568.491	491008.143

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

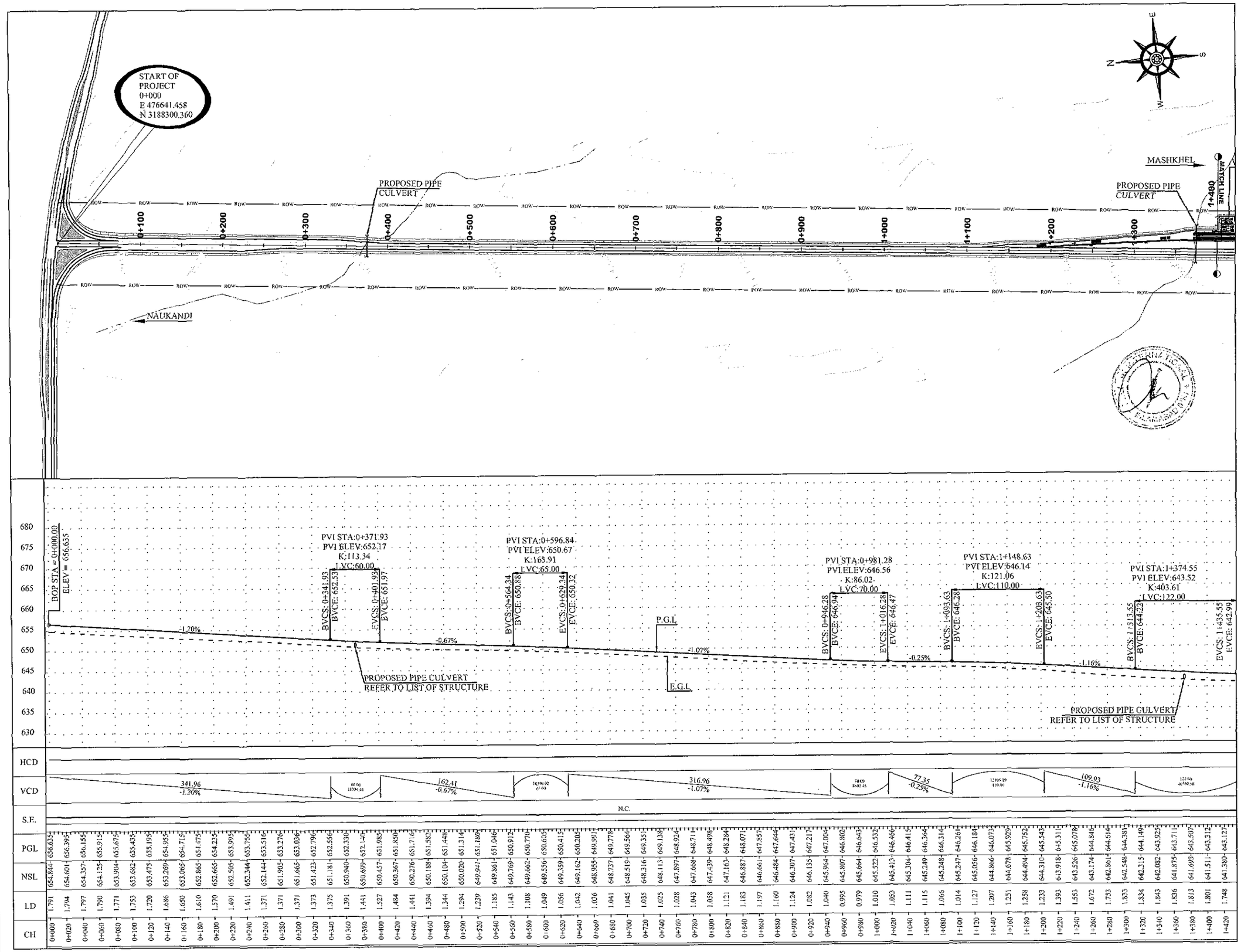
DRAWING TITLE:

STATION COORDINATES
DATA (10M INTERVAL)

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	52 OF 52
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S
CHECKED BY:	DATE:
ZAFAR ALI	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/SCD/52



NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 35 X 15 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

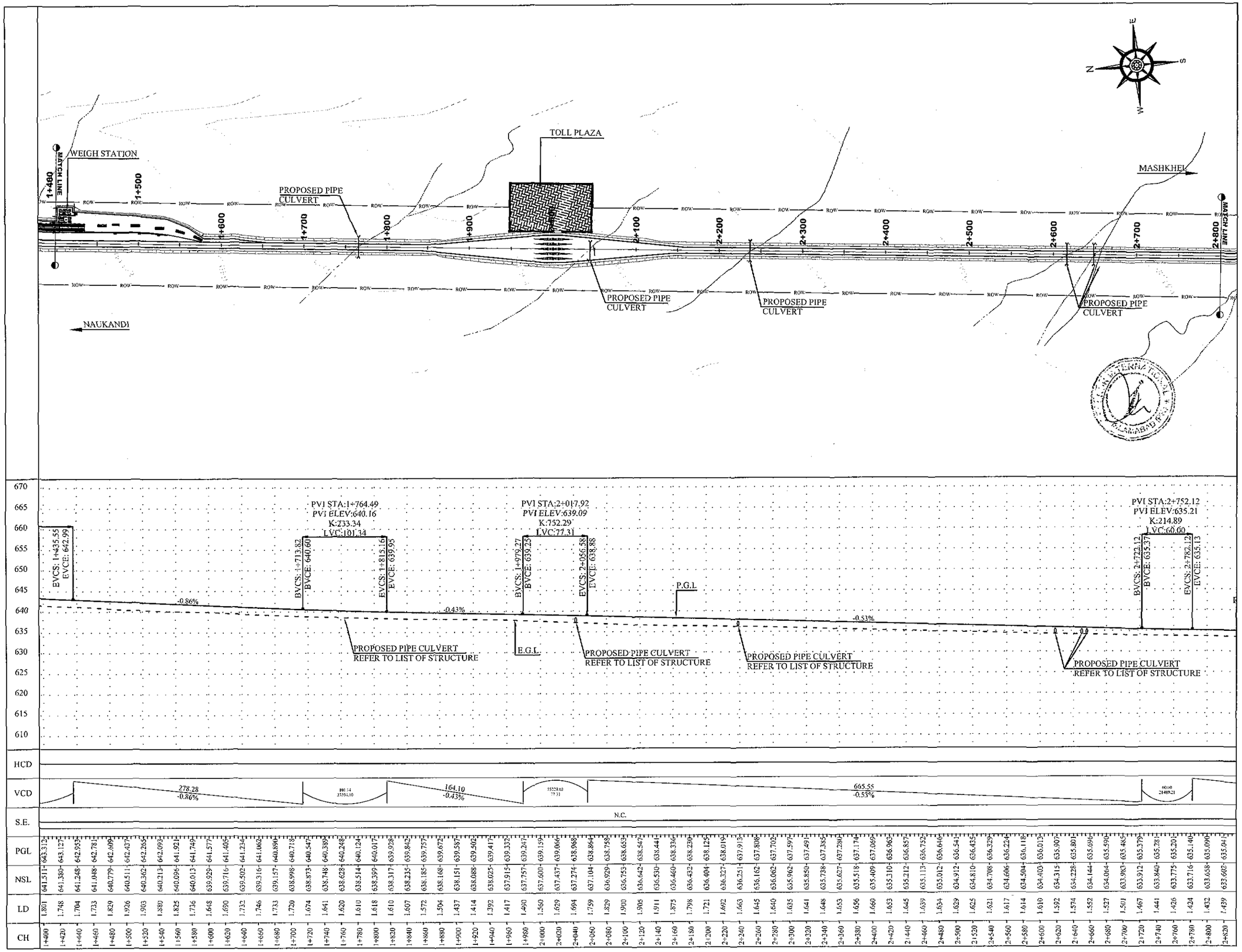
KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

PLAN & PROFILE
KM 0+000 TO 1+400

DESIGN BY: AYESHA SHABBIR	SHEET NO: 01 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/P/01



NOTES

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LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
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EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

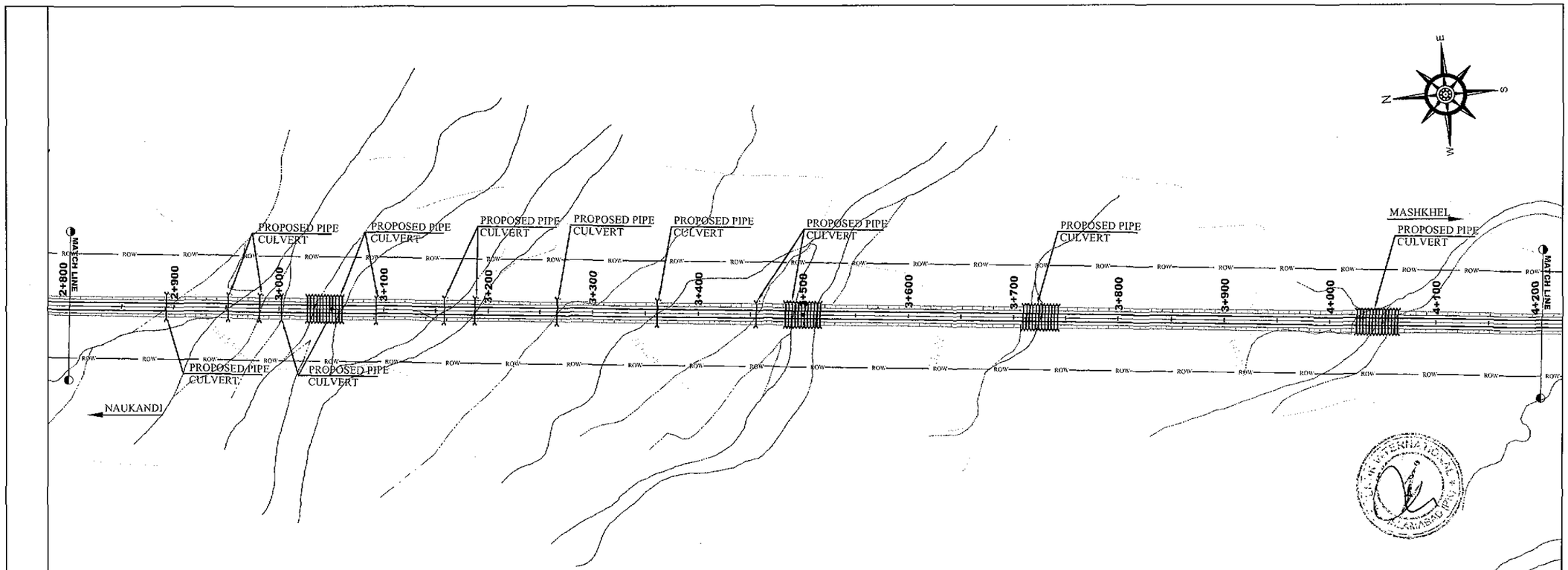
PLAN & PROFILE
KM 1+400 TO 2+800

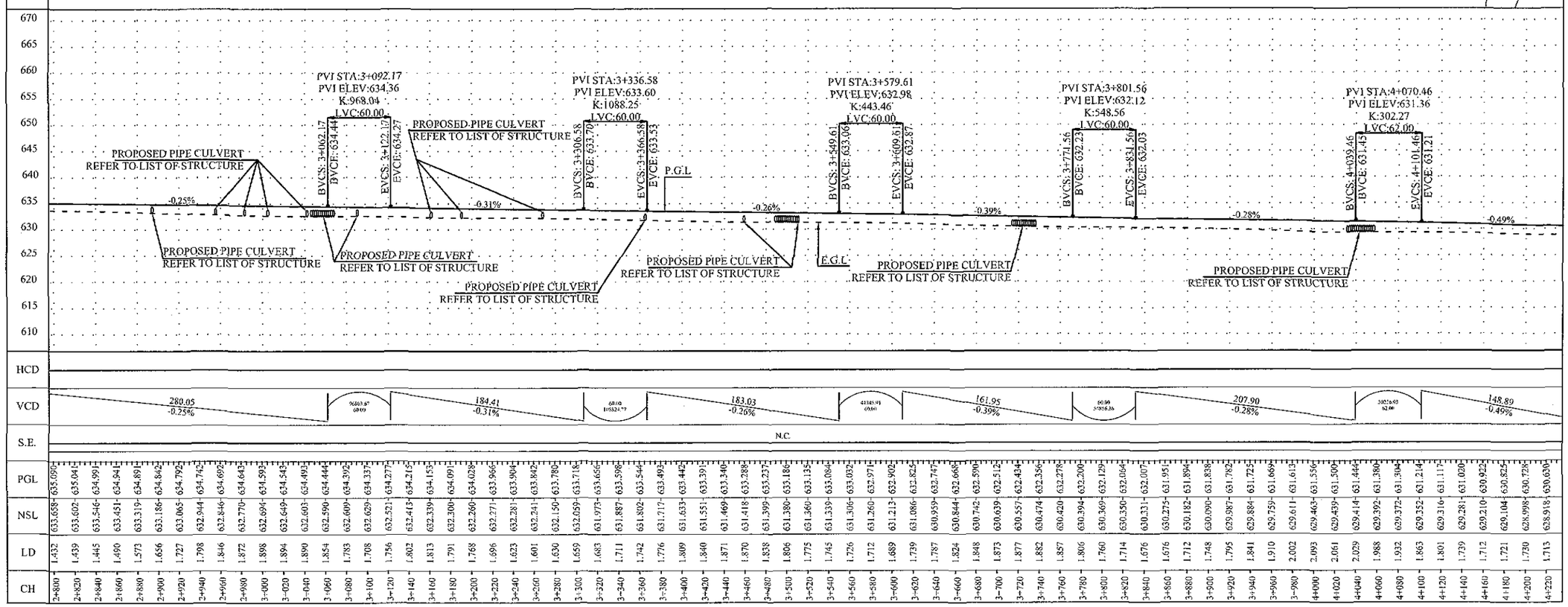
DESIGN BY: AYESHA SHABBIR	SHEET NO: 02 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/02

CH	LD	NSL	PGL
1+400	1.801	641.511	643.312
1+420	1.748	641.380	643.127
1+440	1.704	641.248	642.953
1+460	1.733	641.048	642.781
1+480	1.829	640.779	642.609
1+500	1.926	640.511	642.437
1+520	1.903	640.362	642.265
1+540	1.880	640.213	642.093
1+560	1.825	640.096	641.921
1+580	1.736	640.013	641.749
1+600	1.648	639.929	641.577
1+620	1.690	639.716	641.405
1+640	1.732	639.502	641.234
1+660	1.746	639.316	641.062
1+680	1.733	639.157	640.890
1+700	1.720	638.998	640.718
1+720	1.674	638.873	640.547
1+740	1.641	638.748	640.389
1+760	1.620	638.628	640.248
1+780	1.610	638.514	640.124
1+800	1.618	638.399	640.017
1+820	1.610	638.317	639.928
1+840	1.607	638.235	639.842
1+860	1.572	638.185	639.757
1+880	1.504	638.168	639.672
1+900	1.437	638.151	639.587
1+920	1.414	638.088	639.502
1+940	1.392	638.025	639.417
1+960	1.417	637.915	639.332
1+980	1.490	637.757	639.247
2+000	1.560	637.600	639.159
2+020	1.629	637.437	639.066
2+040	1.694	637.274	638.968
2+060	1.759	637.104	638.864
2+080	1.829	636.929	638.758
2+100	1.900	636.753	638.653
2+120	1.905	636.642	638.547
2+140	1.911	636.530	638.444
2+160	1.875	636.460	638.336
2+180	1.798	636.432	638.230
2+200	1.721	636.404	638.125
2+220	1.692	636.227	638.019
2+240	1.663	636.251	637.913
2+260	1.645	636.162	637.808
2+280	1.640	636.062	637.702
2+300	1.635	635.962	637.597
2+320	1.641	635.850	637.491
2+340	1.648	635.738	637.385
2+360	1.653	635.627	637.280
2+380	1.656	635.518	637.174
2+400	1.660	635.409	637.069
2+420	1.653	635.310	636.963
2+440	1.645	635.212	636.857
2+460	1.639	635.113	636.752
2+480	1.634	635.012	636.646
2+500	1.629	634.912	636.541
2+520	1.625	634.810	636.435
2+540	1.621	634.708	636.329
2+560	1.617	634.606	636.224
2+580	1.614	634.504	636.118
2+600	1.610	634.403	636.013
2+620	1.592	634.315	635.907
2+640	1.574	634.228	635.801
2+660	1.552	634.144	635.696
2+680	1.527	634.064	635.590
2+700	1.501	633.983	635.485
2+720	1.467	633.912	635.379
2+740	1.441	633.840	635.281
2+760	1.426	633.775	635.201
2+780	1.424	633.716	635.140
2+800	1.432	633.658	635.090
2+820	1.459	633.602	635.041





CH	PGL	NSL	LD
2+800	635.090	633.658	1.432
2+820	635.041	633.602	1.439
2+840	634.991	633.546	1.445
2+860	634.941	633.451	1.490
2+880	634.891	633.319	1.573
2+900	634.842	633.186	1.656
2+920	634.792	633.065	1.727
2+940	634.743	632.944	1.798
2+960	634.695	632.846	1.846
2+980	634.645	632.770	1.872
3+000	634.593	632.694	1.898
3+020	634.543	632.649	1.894
3+040	634.493	632.603	1.890
3+060	634.444	632.590	1.854
3+080	634.392	632.609	1.783
3+100	634.337	632.629	1.708
3+120	634.277	632.521	1.756
3+140	634.216	632.413	1.802
3+160	634.153	632.339	1.813
3+180	634.091	632.300	1.791
3+200	634.028	632.260	1.768
3+220	633.966	632.271	1.696
3+240	633.904	632.281	1.623
3+260	633.842	632.241	1.601
3+280	633.780	632.150	1.630
3+300	633.716	632.059	1.659
3+320	633.656	631.973	1.683
3+340	633.598	631.887	1.711
3+360	633.544	631.802	1.742
3+380	633.493	631.717	1.776
3+400	633.442	631.633	1.809
3+420	633.391	631.551	1.840
3+440	633.340	631.469	1.871
3+460	633.288	631.418	1.870
3+480	633.237	631.399	1.838
3+500	633.186	631.380	1.806
3+520	633.135	631.360	1.775
3+540	633.084	631.339	1.745
3+560	633.032	631.306	1.726
3+580	632.971	631.260	1.712
3+600	632.902	631.213	1.689
3+620	632.825	631.086	1.739
3+640	632.747	630.959	1.787
3+660	632.668	630.844	1.824
3+680	632.590	630.742	1.848
3+700	632.512	630.639	1.873
3+720	632.434	630.557	1.877
3+740	632.356	630.474	1.882
3+760	632.278	630.420	1.857
3+780	632.200	630.394	1.806
3+800	632.129	630.369	1.760
3+820	632.060	630.350	1.714
3+840	632.007	630.331	1.676
3+860	631.951	630.275	1.676
3+880	631.894	630.182	1.712
3+900	631.838	630.090	1.748
3+920	631.782	629.987	1.795
3+940	631.725	629.884	1.841
3+960	631.669	629.759	1.910
3+980	631.613	629.611	2.002
4+000	631.556	629.463	2.093
4+020	631.500	629.439	2.061
4+040	631.446	629.414	2.029
4+060	631.380	629.392	1.988
4+080	631.304	629.372	1.932
4+100	631.214	629.352	1.863
4+120	631.117	629.316	1.801
4+140	631.020	629.281	1.739
4+160	630.922	629.210	1.712
4+180	630.825	629.104	1.721
4+200	630.726	628.998	1.730
4+220	630.630	628.918	1.713

NOTES

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LEGEND

- CENTER LINE
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- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 1.5 (CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
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CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
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Ph: 051-4930313-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

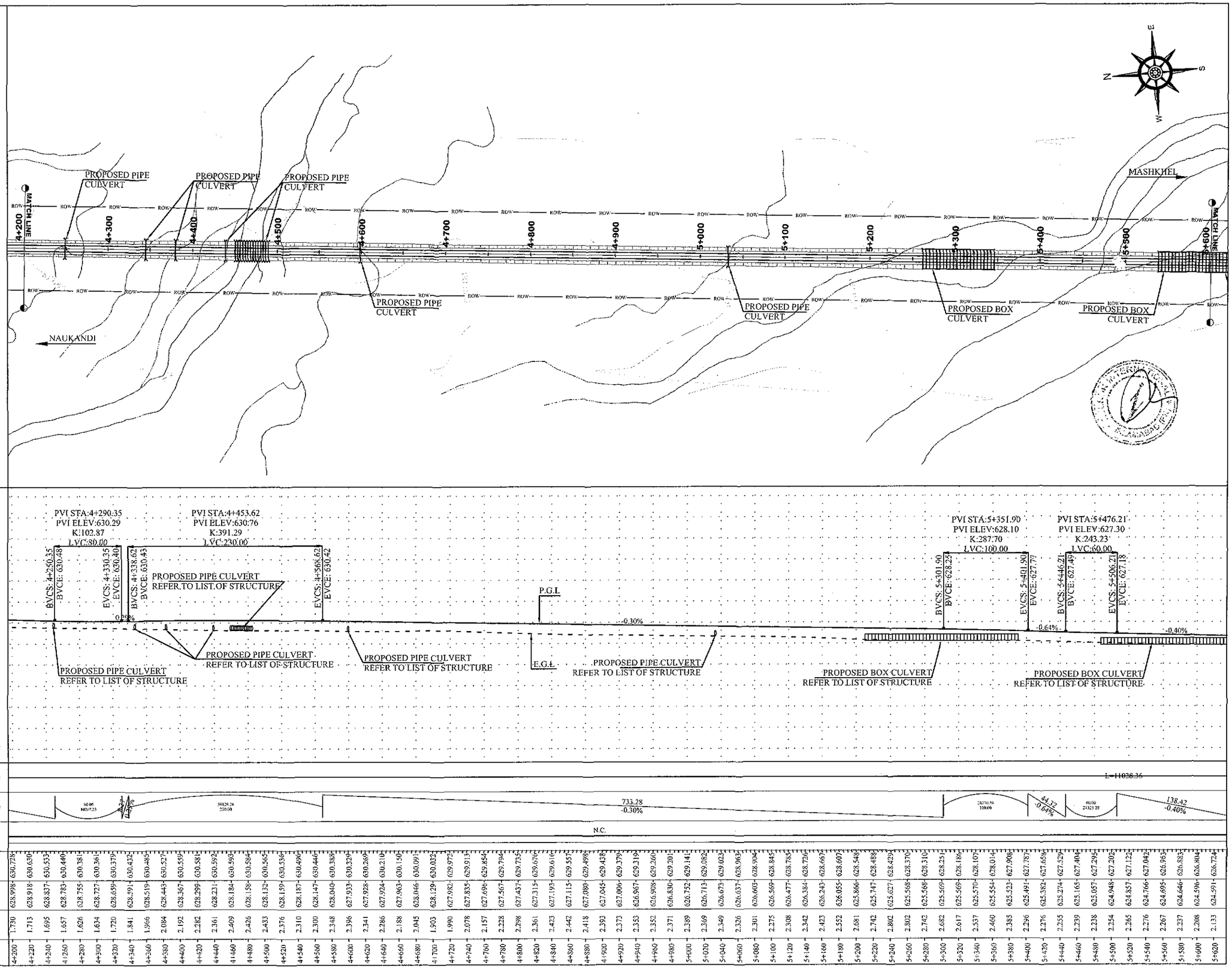
DRAWING TITLE:

PLAN & PROFILE
KM 2+800 TO 4+200

DESIGN BY: AYESHA SHABBIR	SHEET NO: 03 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/03



CH	LD	NSL	PGL
4+200	1.730	628.998	630.728
4+220	1.713	628.918	630.630
4+240	1.695	628.837	630.533
4+260	1.657	628.783	630.440
4+280	1.626	628.755	630.381
4+300	1.634	628.727	630.361
4+320	1.720	628.659	630.379
4+340	1.841	628.591	630.432
4+360	1.966	628.519	630.485
4+380	2.084	628.443	630.527
4+400	2.192	628.367	630.559
4+420	2.282	628.299	630.581
4+440	2.361	628.231	630.592
4+460	2.409	628.184	630.593
4+480	2.426	628.158	630.584
4+500	2.433	628.132	630.565
4+520	2.376	628.159	630.536
4+540	2.310	628.187	630.496
4+560	2.300	628.147	630.446
4+580	2.348	628.040	630.388
4+600	2.396	627.933	630.329
4+620	2.341	627.928	630.269
4+640	2.286	627.924	630.210
4+660	2.188	627.963	630.150
4+680	2.045	628.046	630.091
4+700	1.903	628.129	630.032
4+720	1.990	627.982	629.972
4+740	2.078	627.835	629.913
4+760	2.157	627.696	629.854
4+780	2.228	627.567	629.794
4+800	2.298	627.437	629.735
4+820	2.361	627.313	629.676
4+840	2.423	627.193	629.616
4+860	2.442	627.115	629.557
4+880	2.418	627.080	629.498
4+900	2.393	627.045	629.438
4+920	2.373	627.006	629.379
4+940	2.353	626.967	629.319
4+960	2.352	626.908	629.260
4+980	2.371	626.836	629.201
5+000	2.389	626.752	629.141
5+020	2.369	626.713	629.082
5+040	2.349	626.673	629.023
5+060	2.326	626.637	628.963
5+080	2.301	626.603	628.904
5+100	2.275	626.569	628.845
5+120	2.308	626.477	628.785
5+140	2.342	626.384	628.726
5+160	2.423	626.243	628.667
5+180	2.552	626.055	628.607
5+200	2.681	625.866	628.548
5+220	2.742	625.747	628.488
5+240	2.802	625.627	628.429
5+260	2.802	625.568	628.370
5+280	2.742	625.568	628.310
5+300	2.682	625.569	628.251
5+320	2.617	625.569	628.186
5+340	2.537	625.570	628.107
5+360	2.460	625.554	628.014
5+380	2.385	625.523	627.908
5+400	2.296	625.491	627.787
5+420	2.276	625.382	627.658
5+440	2.255	625.274	627.529
5+460	2.239	625.165	627.404
5+480	2.238	625.057	627.295
5+500	2.254	624.948	627.202
5+520	2.265	624.857	627.122
5+540	2.276	624.766	627.042
5+560	2.267	624.695	626.963
5+580	2.257	624.646	626.883
5+600	2.208	624.596	626.804
5+620	2.133	624.591	626.724

NOTES

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- P.G.L
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- PROPOSED BOX CULVERT — 1 - 3.5 X 1.5 (CELL - W X H)

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PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
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NATIONAL HIGHWAY AUTHORITY
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CONSULTANT:
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3rd Floor, Time Square Plaza,
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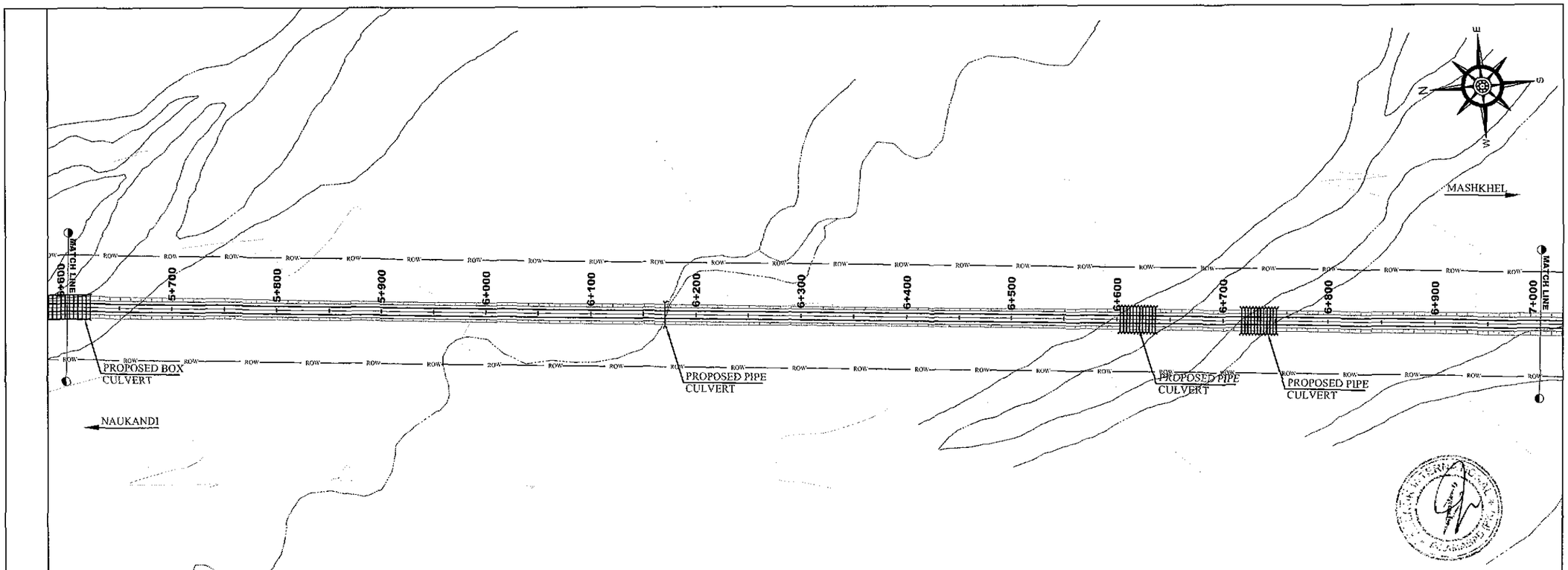
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
PLAN & PROFILE
KM 4+200 TO 5+600

DESIGN BY: AYESHA SHABBIR	SHEET NO: 04 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/04



NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

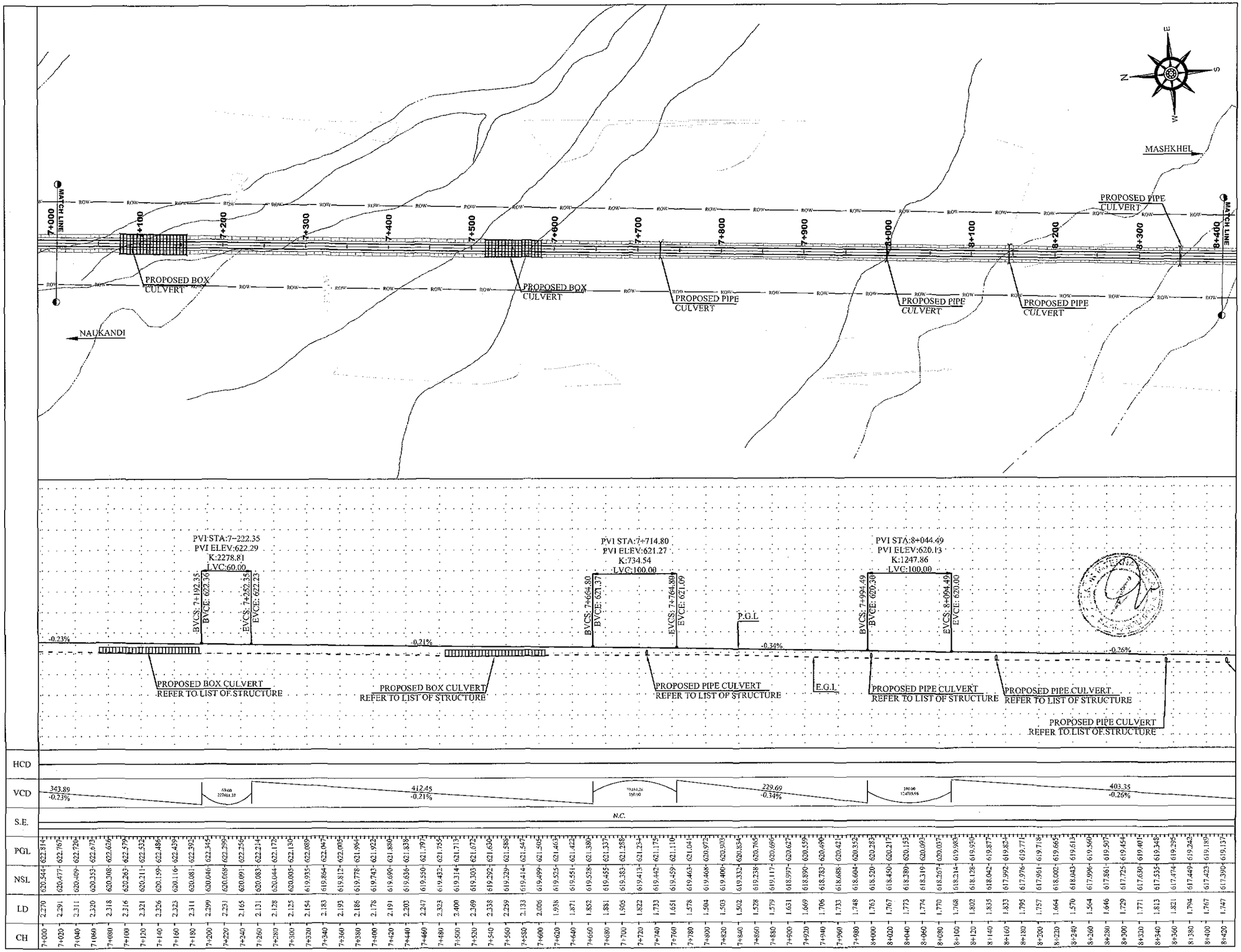
CLIENT :
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT & ARCHITECTS.

DRAWING TITLE:
PLAN & PROFILE
KM 5+600 TO 7+000

DESIGN BY: AYESHA SHABBIR	SHEET NO: 05 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NNK/P/05



NOTES

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LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEBRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
1-B Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

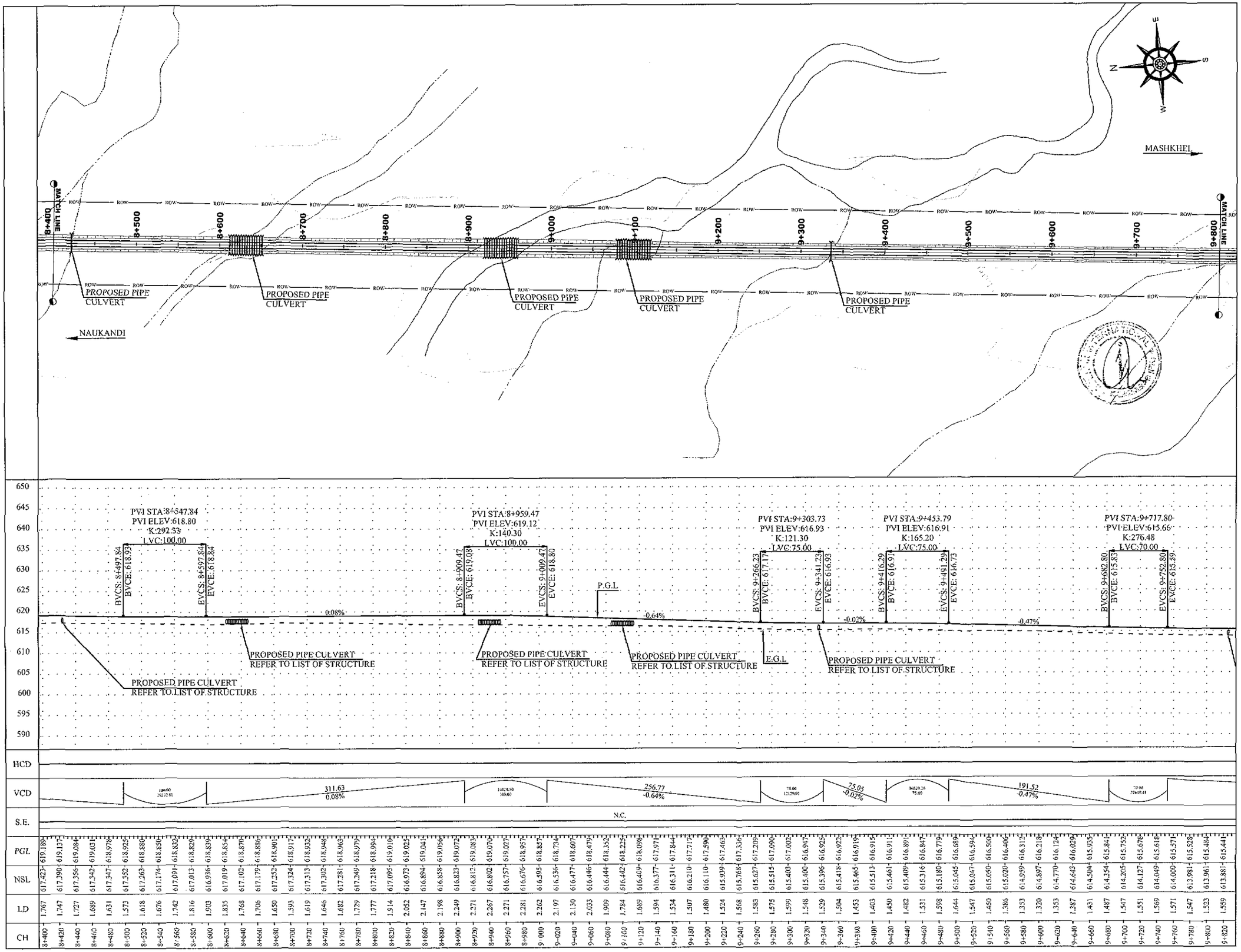
DRAWING TITLE:

PLAN & PROFILE
KM 7+000 TO 8+400

DESIGN BY: AYESHA SHABBIR	SHEET NO: 06 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/06

CH	PGL	NSL	LD
7+000	622.814	620.544	2.270
7+020	622.767	620.477	2.291
7+040	622.720	620.409	2.311
7+060	622.675	620.355	2.320
7+080	622.626	620.308	2.318
7+100	622.579	620.263	2.316
7+120	622.535	620.211	2.321
7+140	622.486	620.159	2.326
7+160	622.439	620.116	2.323
7+180	622.393	620.081	2.311
7+200	622.345	620.046	2.299
7+220	622.299	620.068	2.231
7+240	622.256	620.091	2.165
7+260	622.214	620.083	2.131
7+280	622.172	620.044	2.128
7+300	622.130	620.005	2.125
7+320	622.089	619.935	2.154
7+340	622.047	619.864	2.183
7+360	622.005	619.812	2.193
7+380	621.964	619.778	2.186
7+400	621.922	619.743	2.178
7+420	621.880	619.690	2.191
7+440	621.838	619.636	2.203
7+460	621.797	619.550	2.247
7+480	621.756	619.432	2.323
7+500	621.713	619.314	2.400
7+520	621.672	619.303	2.369
7+540	621.630	619.292	2.338
7+560	621.588	619.329	2.259
7+580	621.547	619.414	2.133
7+600	621.505	619.499	2.006
7+620	621.463	619.525	1.938
7+640	621.422	619.551	1.871
7+660	621.380	619.528	1.852
7+680	621.337	619.455	1.881
7+700	621.293	619.388	1.905
7+720	621.254	619.413	1.822
7+740	621.175	619.442	1.733
7+760	621.110	619.459	1.651
7+780	621.041	619.463	1.578
7+800	620.972	619.468	1.504
7+820	620.903	619.400	1.503
7+840	620.834	619.332	1.502
7+860	620.765	619.238	1.528
7+880	620.696	619.117	1.579
7+900	620.627	618.997	1.631
7+920	620.559	618.890	1.669
7+940	620.490	618.783	1.706
7+960	620.421	618.688	1.733
7+980	620.352	618.604	1.748
8+000	620.283	618.520	1.763
8+020	620.217	618.450	1.767
8+040	620.153	618.380	1.773
8+060	620.093	618.319	1.774
8+080	620.037	618.267	1.770
8+100	619.988	618.214	1.768
8+120	619.939	618.128	1.802
8+140	619.877	618.042	1.835
8+160	619.829	617.992	1.833
8+180	619.771	617.976	1.795
8+200	619.718	617.961	1.757
8+220	619.665	618.002	1.664
8+240	619.613	618.043	1.570
8+260	619.560	617.996	1.564
8+280	619.507	617.861	1.646
8+300	619.454	617.725	1.729
8+320	619.401	617.630	1.771
8+340	619.348	617.535	1.813
8+360	619.295	617.474	1.821
8+380	619.242	617.449	1.794
8+400	619.189	617.423	1.767
8+420	619.137	617.390	1.747



NOTES

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LEGEND

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ABBREVIATIONS

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HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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3rd Floor, Time Square Plaza,
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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

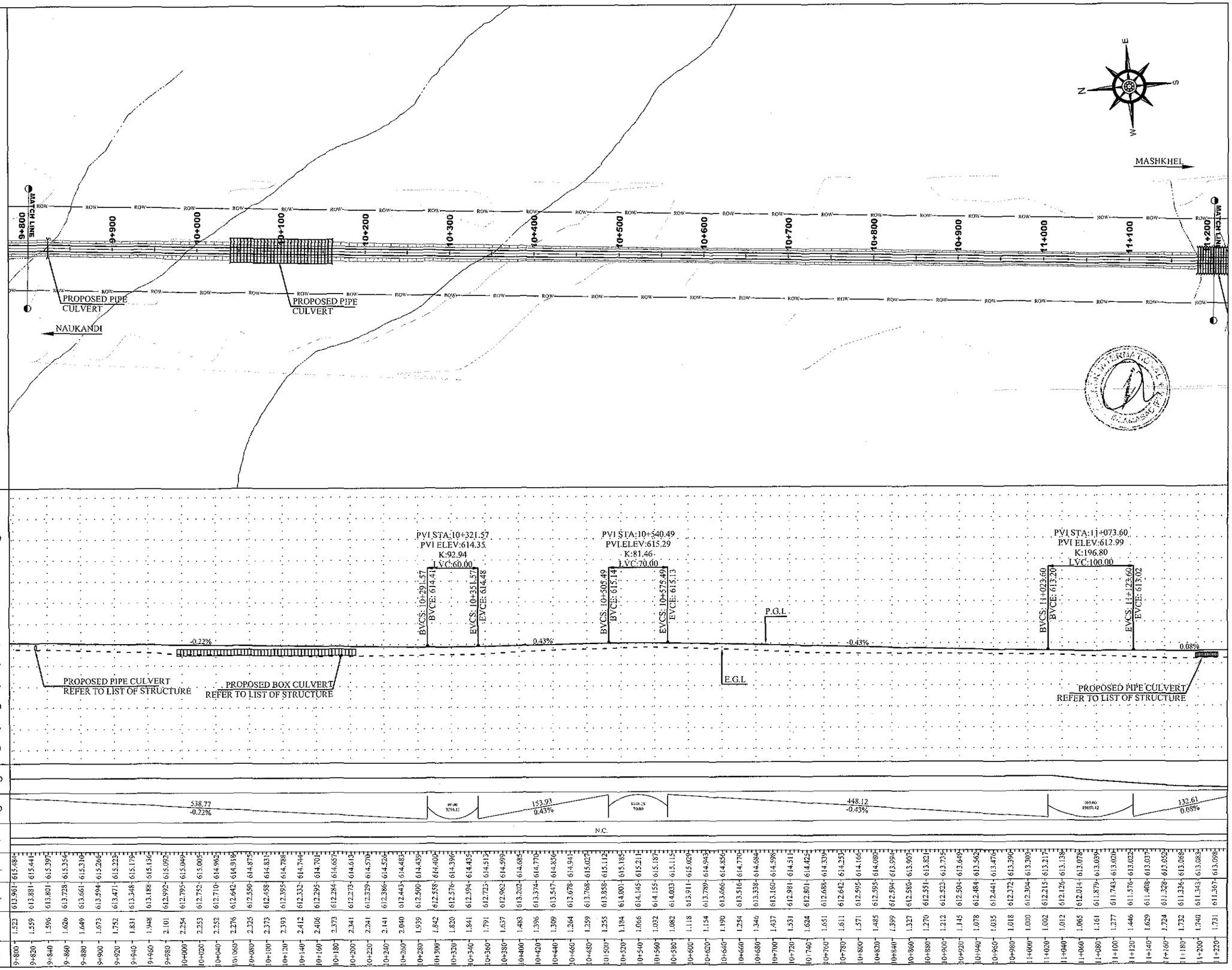
DRAWING TITLE:

PLAN & PROFILE
KM 8+400 TO 9+800

DESIGN BY: AYESHA SHABBIR	SHEET NO: 07 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/07

CH	PGL	NSL	LD
8+400	619.180	617.423	1.757
8+420	619.137	617.390	1.747
8+440	619.084	617.356	1.727
8+460	619.031	617.342	1.689
8+480	618.978	617.347	1.631
8+500	618.925	617.352	1.573
8+520	618.880	617.263	1.618
8+540	618.850	617.174	1.676
8+560	618.832	617.091	1.742
8+580	618.829	617.013	1.816
8+600	618.839	616.936	1.903
8+620	618.854	617.019	1.835
8+640	618.870	617.102	1.768
8+660	618.886	617.179	1.706
8+680	618.901	617.252	1.650
8+700	618.917	617.324	1.593
8+720	618.932	617.313	1.619
8+740	618.948	617.302	1.646
8+760	618.965	617.281	1.682
8+780	618.979	617.249	1.729
8+800	618.994	617.218	1.777
8+820	619.010	617.095	1.914
8+840	619.025	616.973	2.052
8+860	619.041	616.894	2.147
8+880	619.056	616.858	2.198
8+900	619.072	616.823	2.249
8+920	619.089	616.818	2.271
8+940	619.070	616.802	2.267
8+960	619.027	616.757	2.271
8+980	618.957	616.676	2.281
9+000	618.857	616.595	2.262
9+020	618.734	616.536	2.197
9+040	618.607	616.477	2.130
9+060	618.479	616.446	2.033
9+080	618.352	616.444	1.909
9+100	618.225	616.442	1.784
9+120	618.098	616.409	1.689
9+140	617.971	616.377	1.594
9+160	617.844	616.311	1.534
9+180	617.717	616.210	1.507
9+200	617.590	616.110	1.480
9+220	617.463	615.939	1.524
9+240	617.338	615.769	1.568
9+260	617.209	615.627	1.583
9+280	617.090	615.515	1.575
9+300	617.000	615.403	1.599
9+320	616.947	615.400	1.548
9+340	616.925	615.396	1.529
9+360	616.929	615.418	1.504
9+380	616.919	615.465	1.453
9+400	616.915	615.513	1.403
9+420	616.911	615.461	1.450
9+440	616.891	615.409	1.482
9+460	616.847	615.316	1.531
9+480	616.779	615.180	1.598
9+500	616.689	615.045	1.644
9+520	616.594	615.047	1.547
9+540	616.500	615.050	1.450
9+560	616.406	615.020	1.386
9+580	616.312	614.959	1.353
9+600	616.218	614.897	1.320
9+620	616.124	614.770	1.353
9+640	616.029	614.643	1.387
9+660	615.935	614.504	1.431
9+680	615.841	614.354	1.487
9+700	615.752	614.205	1.547
9+720	615.678	614.127	1.551
9+740	615.618	614.049	1.569
9+760	615.571	614.000	1.571
9+780	615.528	613.981	1.547
9+800	615.484	613.961	1.523
9+820	615.441	613.881	1.559



NOTES

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LEGEND

- CENTER LINE
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- SHOULDER EDGE
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- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

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CH	CHAINAGE
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HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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3rd Floor, Time Square Plaza,
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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

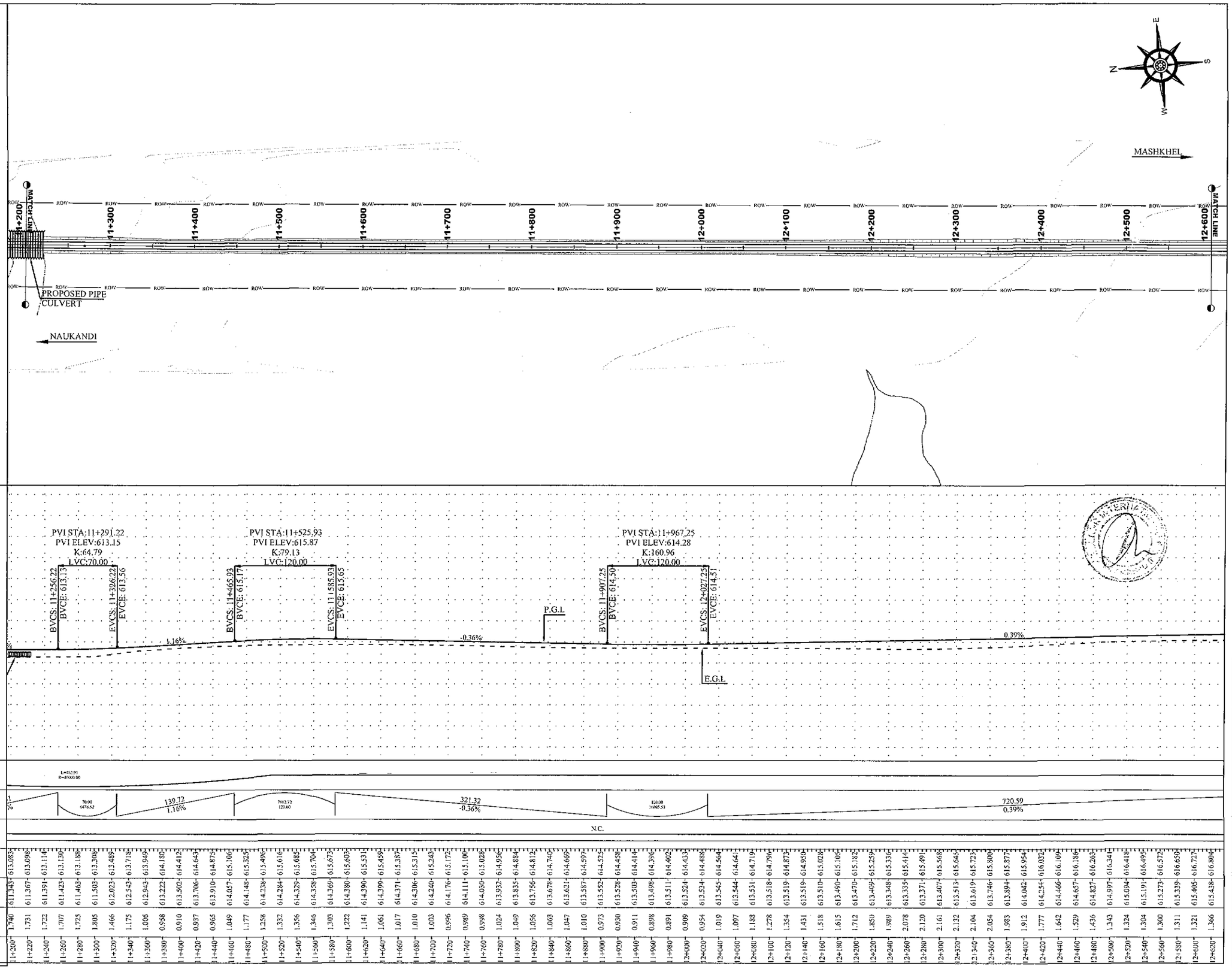
DRAWING TITLE:

PLAN & PROFILE
KM 9+800 TO 11+200

DESIGN BY: AYESHA SHABBIR	SHEET NO: 08 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/P/08

HCD	VCD	S.E.	PGL	NSL	LD	CH
	538.77 -0.22%	N.C.	615.484	612.961	1.523	9+800
			615.441	613.881	1.559	9+820
			615.397	613.801	1.596	9+840
			615.354	613.728	1.626	9+860
			615.310	613.661	1.649	9+880
			615.266	613.594	1.673	9+900
			615.223	613.471	1.752	9+920
			615.179	613.348	1.831	9+940
			615.136	613.188	1.948	9+960
			615.092	612.992	2.101	9+980
			615.049	612.795	2.254	10+000
			615.005	612.752	2.253	10+020
			614.962	612.710	2.252	10+040
			614.918	612.642	2.276	10+060
			614.875	612.550	2.325	10+080
			614.831	612.458	2.373	10+100
			614.788	612.395	2.393	10+120
			614.744	612.332	2.412	10+140
			614.701	612.295	2.406	10+160
			614.657	612.284	2.373	10+180
			614.613	612.273	2.341	10+200
			614.570	612.329	2.241	10+220
			614.526	612.386	2.141	10+240
			614.483	612.443	2.040	10+260
			614.439	612.500	1.939	10+280
			614.400	612.558	1.842	10+300
			614.396	612.576	1.820	10+320
			614.435	612.594	1.841	10+340
			614.515	612.723	1.791	10+360
			614.599	612.962	1.637	10+380
			614.685	613.202	1.483	10+400
			614.770	613.374	1.396	10+420
			614.856	613.547	1.309	10+440
			614.941	613.678	1.264	10+460
			615.027	613.768	1.259	10+480
			615.112	613.858	1.255	10+500
			615.185	614.003	1.184	10+520
			615.211	614.145	1.066	10+540
			615.187	614.155	1.032	10+560
			615.115	614.023	1.082	10+580
			615.029	613.911	1.118	10+600
			614.943	613.789	1.154	10+620
			614.856	613.666	1.190	10+640
			614.770	613.516	1.254	10+660
			614.684	613.338	1.346	10+680
			614.598	613.160	1.437	10+700
			614.511	612.981	1.531	10+720
			614.423	612.801	1.624	10+740
			614.339	612.688	1.651	10+760
			614.255	612.642	1.611	10+780
			614.168	612.595	1.571	10+800
			614.080	612.595	1.485	10+820
			613.990	612.594	1.399	10+840
			613.900	612.586	1.327	10+860
			613.821	612.551	1.270	10+880
			613.735	612.523	1.212	10+900
			613.645	612.504	1.145	10+920
			613.562	612.484	1.078	10+940
			613.476	612.441	1.035	10+960
			613.390	612.372	1.018	10+980
			613.305	612.304	1.000	11+000
			613.217	612.215	1.002	11+020
			613.138	612.126	1.012	11+040
			613.078	612.014	1.065	11+060
			613.039	611.879	1.161	11+080
			613.021	611.743	1.277	11+100
			613.032	611.576	1.446	11+120
			613.037	611.408	1.629	11+140
			613.052	611.328	1.724	11+160
			613.068	611.336	1.732	11+180
			613.083	611.343	1.740	11+200
			613.098	611.367	1.731	11+220



CH	PGL	NSL	LD
11+200	613.083	611.343	1.740
11+220	613.098	611.367	1.731
11+240	613.114	611.391	1.722
11+260	613.130	611.423	1.707
11+280	613.188	611.463	1.725
11+300	613.308	611.503	1.805
11+320	613.489	612.023	1.466
11+340	613.718	612.543	1.175
11+360	613.949	612.943	1.006
11+380	614.189	613.222	0.958
11+400	614.412	613.502	0.910
11+420	614.643	613.706	0.937
11+440	614.875	613.910	0.965
11+460	615.106	614.057	1.049
11+480	615.525	614.148	1.177
11+500	615.496	614.238	1.258
11+520	615.616	614.284	1.332
11+540	615.685	614.329	1.356
11+560	615.704	614.358	1.346
11+580	615.673	614.369	1.305
11+600	615.603	614.380	1.222
11+620	615.531	614.390	1.141
11+640	615.459	614.399	1.061
11+660	615.387	614.371	1.017
11+680	615.315	614.306	1.010
11+700	615.243	614.240	1.003
11+720	615.172	614.176	0.996
11+740	615.100	614.111	0.989
11+760	615.028	614.030	0.998
11+780	614.956	613.932	1.024
11+800	614.884	613.835	1.049
11+820	614.812	613.756	1.056
11+840	614.740	613.678	1.063
11+860	614.669	613.621	1.047
11+880	614.597	613.587	1.010
11+900	614.525	613.552	0.973
11+920	614.458	613.528	0.930
11+940	614.414	613.503	0.911
11+960	614.396	613.498	0.898
11+980	614.402	613.511	0.891
12+000	614.433	613.524	0.909
12+020	614.488	613.534	0.954
12+040	614.564	613.545	1.019
12+060	614.641	613.544	1.097
12+080	614.719	613.531	1.188
12+100	614.796	613.518	1.278
12+120	614.873	613.519	1.354
12+140	614.950	613.519	1.431
12+160	615.028	613.510	1.518
12+180	615.105	613.490	1.615
12+200	615.182	613.470	1.712
12+220	615.259	613.409	1.850
12+240	615.336	613.348	1.989
12+260	615.414	613.335	2.078
12+280	615.491	613.371	2.120
12+300	615.568	613.407	2.161
12+320	615.645	613.513	2.132
12+340	615.725	613.619	2.104
12+360	615.800	613.746	2.054
12+380	615.877	613.894	1.983
12+400	615.954	614.042	1.912
12+420	616.032	614.254	1.777
12+440	616.109	614.466	1.642
12+460	616.186	614.657	1.529
12+480	616.263	614.827	1.436
12+500	616.341	614.997	1.343
12+520	616.418	615.094	1.324
12+540	616.495	615.191	1.304
12+560	616.572	615.273	1.300
12+580	616.650	615.339	1.311
12+600	616.727	615.405	1.321
12+620	616.804	615.438	1.366

NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 1.5 CELL - W X H

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
1-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

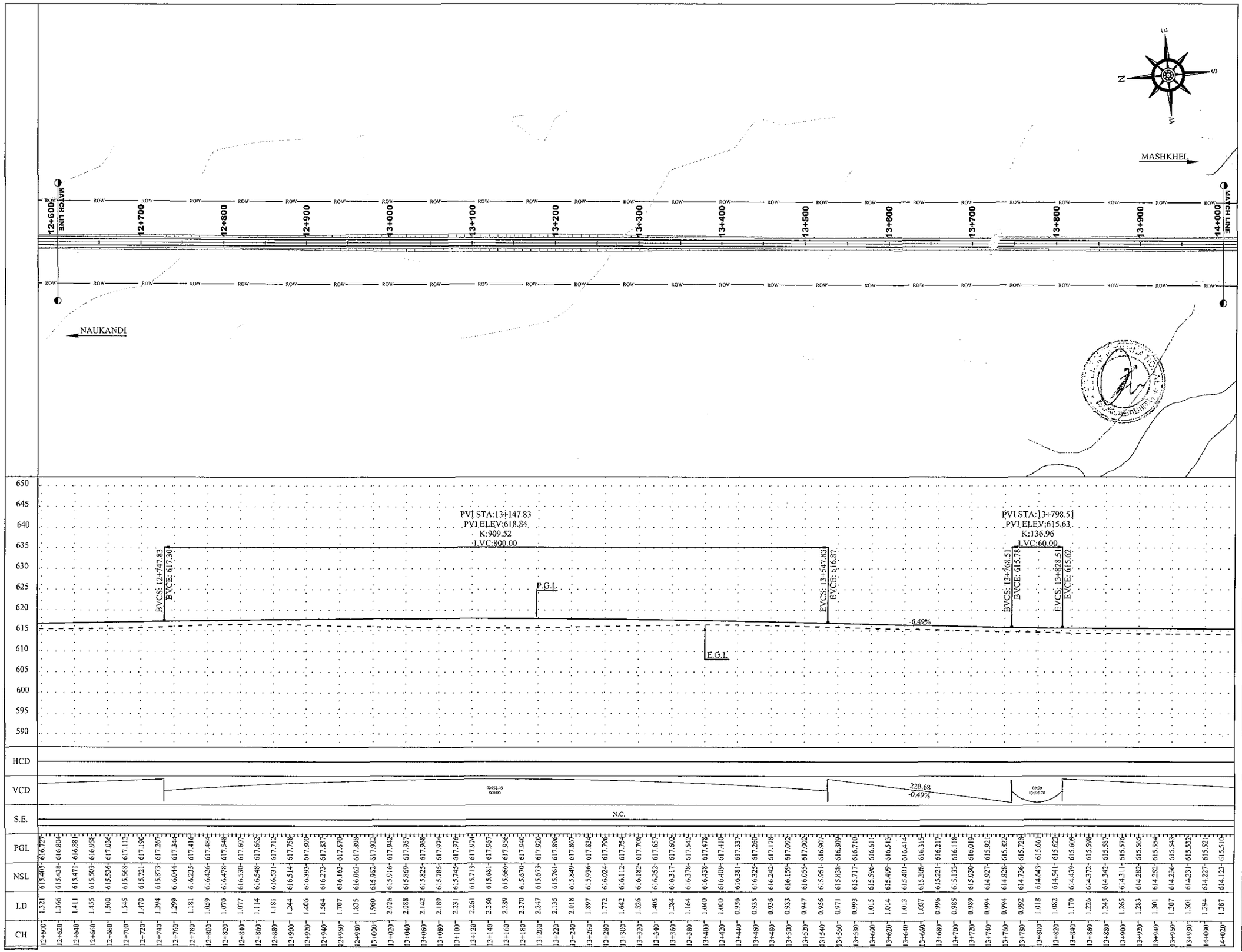
DRAWING TITLE:

PLAN & PROFILE
KM 11+200 TO 12+600

DESIGN BY: AYESHA SHABBIR	SHEET NO: 09 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV. 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/09



CH	PGL	NSL	LD
12+600	616.727	615.405	1.321
12+620	616.804	615.438	1.366
12+640	616.881	615.471	1.411
12+660	616.958	615.503	1.455
12+680	617.036	615.536	1.500
12+700	617.113	615.568	1.545
12+720	617.190	615.721	1.470
12+740	617.267	615.973	1.294
12+760	617.344	616.044	1.299
12+780	617.416	616.235	1.181
12+800	617.484	616.426	1.059
12+820	617.548	616.478	1.070
12+840	617.607	616.530	1.077
12+860	617.665	616.548	1.114
12+880	617.717	616.531	1.181
12+900	617.758	616.514	1.244
12+920	617.800	616.393	1.406
12+940	617.837	616.273	1.564
12+960	617.870	616.163	1.707
12+980	617.898	616.063	1.835
13+000	617.922	615.962	1.960
13+020	617.942	615.916	2.026
13+040	617.957	615.869	2.088
13+060	617.968	615.825	2.142
13+080	617.974	615.785	2.189
13+100	617.976	615.745	2.231
13+120	617.974	615.713	2.261
13+140	617.967	615.681	2.286
13+160	617.956	615.666	2.289
13+180	617.940	615.670	2.270
13+200	617.920	615.673	2.247
13+220	617.896	615.761	2.135
13+240	617.867	615.849	2.018
13+260	617.834	615.936	1.897
13+280	617.796	616.024	1.772
13+300	617.754	616.112	1.642
13+320	617.708	616.182	1.526
13+340	617.657	616.252	1.405
13+360	617.602	616.317	1.284
13+380	617.542	616.378	1.164
13+400	617.478	616.438	1.040
13+420	617.410	616.409	1.000
13+440	617.337	616.381	0.956
13+460	617.260	616.325	0.935
13+480	617.178	616.242	0.936
13+500	617.092	616.159	0.933
13+520	617.002	616.055	0.947
13+540	616.907	615.951	0.956
13+560	616.809	615.838	0.971
13+580	616.710	615.717	0.993
13+600	616.611	615.596	1.015
13+620	616.512	615.499	1.014
13+640	616.414	615.401	1.013
13+660	616.315	615.308	1.007
13+680	616.217	615.221	0.996
13+700	616.118	615.133	0.985
13+720	616.019	615.030	0.989
13+740	615.921	614.927	0.994
13+760	615.825	614.828	0.994
13+780	615.729	614.736	0.992
13+800	615.641	614.643	1.018
13+820	615.623	614.541	1.082
13+840	615.609	614.439	1.170
13+860	615.596	614.372	1.226
13+880	615.587	614.342	1.245
13+900	615.576	614.311	1.265
13+920	615.565	614.282	1.283
13+940	615.554	614.252	1.301
13+960	615.543	614.236	1.307
13+980	615.532	614.231	1.301
14+000	615.521	614.227	1.294
14+020	615.510	614.123	1.387

NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
1-B Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

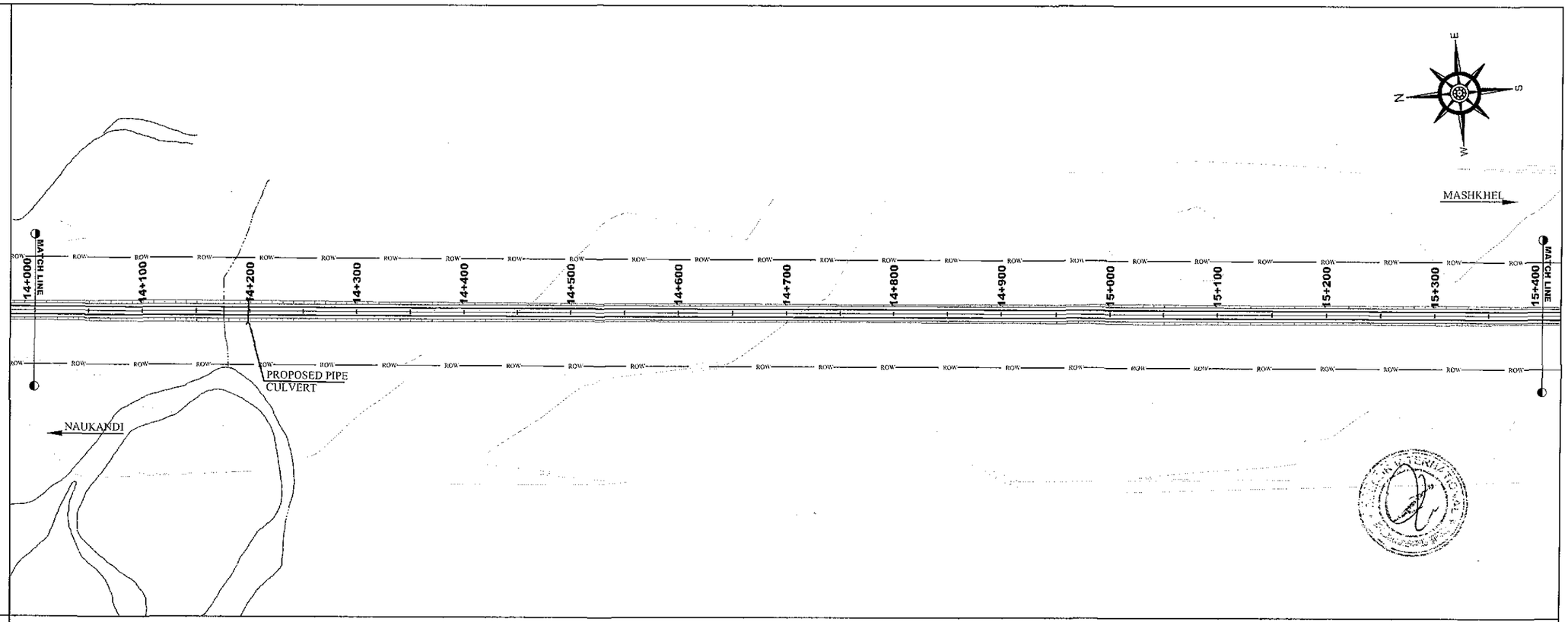
DRAWING TITLE:

PLAN & PROFILE
KM 12+600 TO 14+000

DESIGN BY: AYESHA SHABBIR	SHEET NO: 10 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/10



CH	PGL	NSL	LD
14+000	615.521	614.227	1.294
14+020	615.510	614.123	1.387
14+040	615.499	614.019	1.479
14+060	615.487	613.899	1.588
14+080	615.476	613.764	1.712
14+100	615.465	613.628	1.837
14+120	615.454	613.599	1.855
14+140	615.443	613.570	1.873
14+160	615.432	613.549	1.883
14+180	615.421	613.537	1.884
14+200	615.410	613.524	1.886
14+220	615.399	613.593	1.806
14+240	615.388	613.661	1.726
14+260	615.377	613.726	1.651
14+280	615.366	613.787	1.578
14+300	615.355	613.849	1.506
14+320	615.344	613.874	1.470
14+340	615.333	613.898	1.434
14+360	615.322	613.932	1.390
14+380	615.311	613.973	1.337
14+400	615.299	614.015	1.284
14+420	615.288	614.017	1.271
14+440	615.280	614.019	1.261
14+460	615.285	614.077	1.208
14+480	615.306	614.190	1.116
14+500	615.345	614.304	1.039
14+520	615.396	614.401	0.996
14+540	615.463	614.498	0.965
14+560	615.531	614.556	0.975
14+580	615.600	614.576	1.024
14+600	615.668	614.596	1.072
14+620	615.736	614.616	1.121
14+640	615.805	614.636	1.169
14+660	615.873	614.702	1.171
14+680	615.942	614.816	1.125
14+700	616.010	614.930	1.080
14+720	616.078	615.051	1.027
14+740	616.146	615.172	0.974
14+760	616.182	615.201	0.981
14+780	616.165	615.135	1.030
14+800	616.096	615.070	1.027
14+820	616.009	614.931	1.078
14+840	615.921	614.791	1.130
14+860	615.834	614.673	1.161
14+880	615.746	614.576	1.170
14+900	615.660	614.479	1.181
14+920	615.595	614.446	1.147
14+940	615.553	614.413	1.141
14+960	615.541	614.360	1.181
14+980	615.556	614.287	1.268
15+000	615.597	614.215	1.382
15+020	615.645	614.169	1.478
15+040	615.698	614.120	1.578
15+060	615.726	614.161	1.566
15+080	615.740	614.289	1.451
15+100	615.735	614.417	1.318
15+120	615.725	614.430	1.295
15+140	615.714	614.443	1.271
15+160	615.704	614.441	1.263
15+180	615.695	614.424	1.269
15+200	615.685	614.408	1.275
15+220	615.675	614.373	1.299
15+240	615.663	614.338	1.324
15+260	615.651	614.292	1.359
15+280	615.641	614.236	1.405
15+300	615.631	614.179	1.451
15+320	615.620	614.253	1.367
15+340	615.610	614.326	1.283
15+360	615.599	614.397	1.202
15+380	615.589	614.464	1.124
15+400	615.578	614.532	1.046
15+420	615.568	614.548	1.020

NOTES

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LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

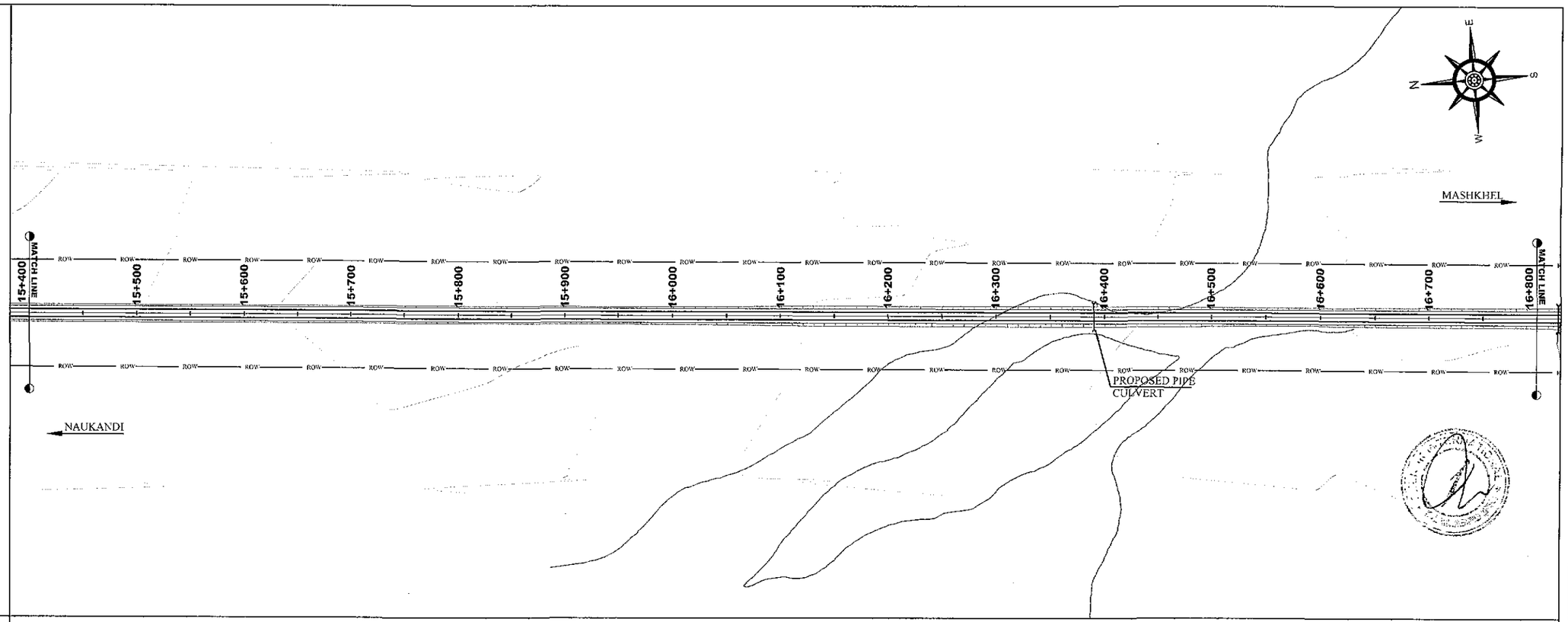
DRAWING TITLE:

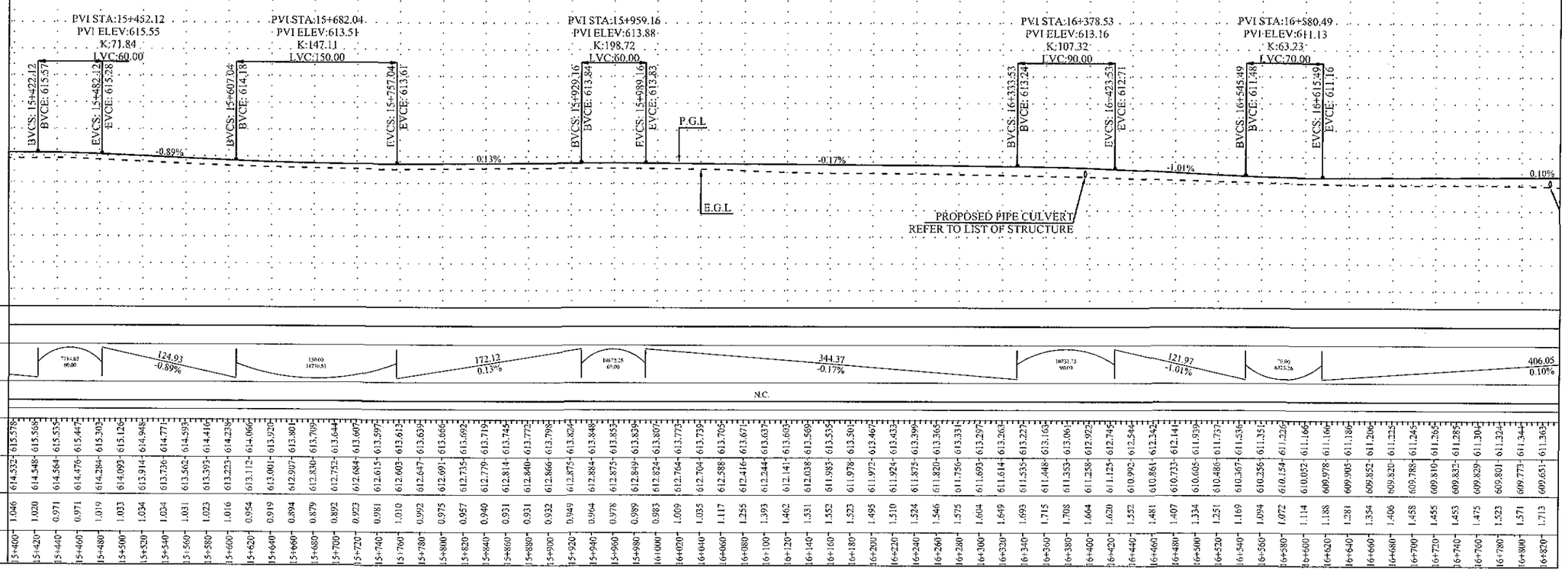
PLAN & PROFILE
KM 14+000 TO 15+400

DESIGN BY: AYESHA SHABBIR	SHEET NO: 11 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/11





NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 1.5 (CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
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EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

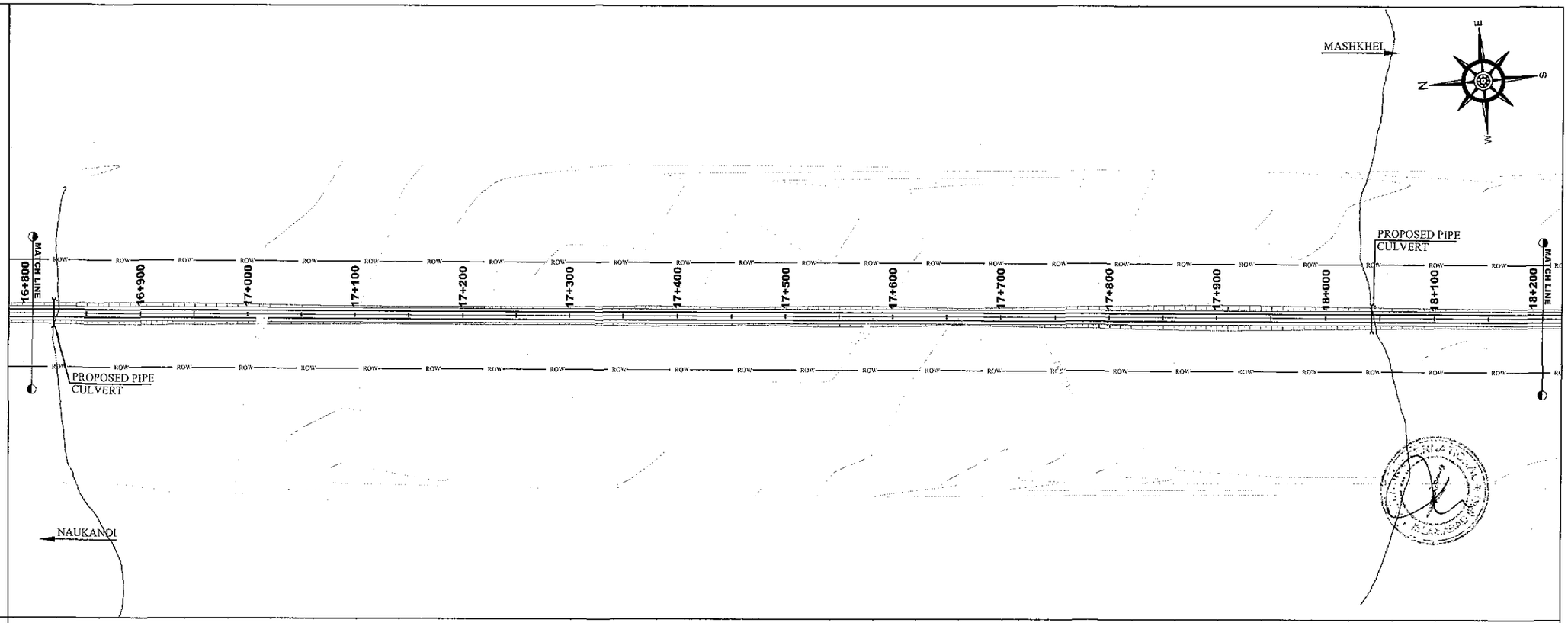
DRAWING TITLE:

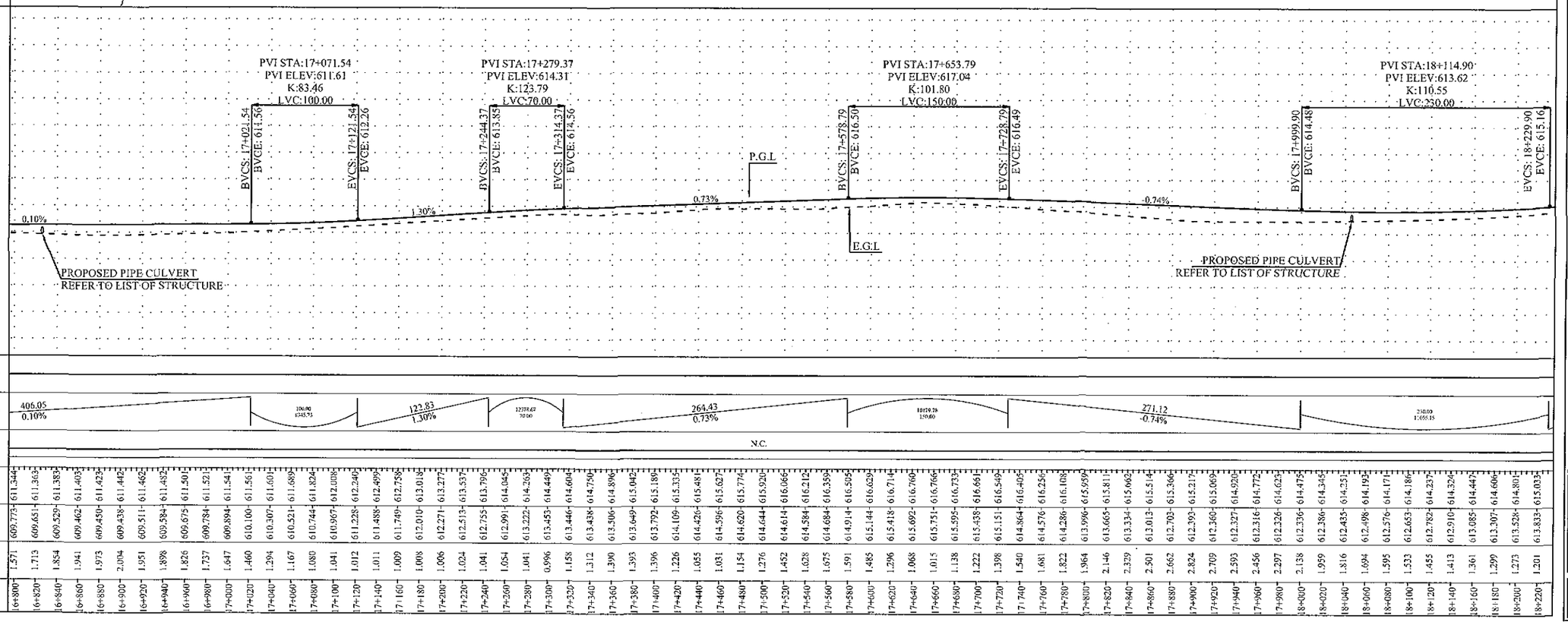
PLAN & PROFILE
KM 15+400 TO 16+800

DESIGN BY: AYESHA SHABBIR	SHEET NO: 12 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/12





CH	PGL	NSL	LD
16+800	611.346	609.773	1.571
16+820	611.363	609.651	1.713
16+840	611.383	609.529	1.854
16+860	611.403	609.462	1.941
16+880	611.423	609.450	1.973
16+900	611.442	609.438	2.004
16+920	611.462	609.511	1.951
16+940	611.482	609.584	1.898
16+960	611.501	609.675	1.826
16+980	611.521	609.784	1.737
17+000	611.541	609.894	1.647
17+020	611.560	610.100	1.460
17+040	611.601	610.307	1.294
17+060	611.609	610.521	1.167
17+080	611.824	610.744	1.080
17+100	612.008	610.967	1.041
17+120	612.240	611.228	1.012
17+140	612.499	611.488	1.011
17+160	612.758	611.749	1.009
17+180	613.018	612.010	1.008
17+200	613.277	612.271	1.006
17+220	613.537	612.513	1.024
17+240	613.796	612.755	1.041
17+260	614.045	612.991	1.054
17+280	614.263	613.222	1.041
17+300	614.449	613.453	0.996
17+320	614.604	613.446	1.158
17+340	614.750	613.438	1.312
17+360	614.896	613.506	1.390
17+380	615.042	613.649	1.393
17+400	615.189	613.792	1.396
17+420	615.335	614.109	1.226
17+440	615.481	614.426	1.055
17+460	615.627	614.596	1.031
17+480	615.774	614.620	1.154
17+500	615.920	614.644	1.276
17+520	616.066	614.614	1.452
17+540	616.212	614.584	1.628
17+560	616.359	614.684	1.675
17+580	616.505	614.914	1.591
17+600	616.629	615.144	1.485
17+620	616.714	615.418	1.296
17+640	616.760	615.692	1.068
17+660	616.766	615.751	1.015
17+680	616.733	615.595	1.138
17+700	616.691	615.438	1.222
17+720	616.549	615.151	1.398
17+740	616.405	614.864	1.540
17+760	616.256	614.576	1.681
17+780	616.108	614.286	1.822
17+800	615.959	613.996	1.964
17+820	615.811	613.665	2.146
17+840	615.662	613.334	2.329
17+860	615.514	613.013	2.501
17+880	615.366	612.703	2.662
17+900	615.217	612.393	2.824
17+920	615.069	612.360	2.709
17+940	614.920	612.327	2.593
17+960	614.772	612.316	2.456
17+980	614.623	612.326	2.297
18+000	614.475	612.336	2.138
18+020	614.346	612.386	1.959
18+040	614.251	612.435	1.816
18+060	614.193	612.498	1.694
18+080	614.171	612.576	1.595
18+100	614.186	612.653	1.533
18+120	614.237	612.782	1.455
18+140	614.326	612.9104	1.413
18+160	614.447	613.085	1.361
18+180	614.606	613.307	1.299
18+200	614.801	613.528	1.273
18+220	615.035	613.833	1.201

NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5, CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
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R.O.W	RIGHT OF WAY
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REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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3rd Floor, Time Square Plaza,
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Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

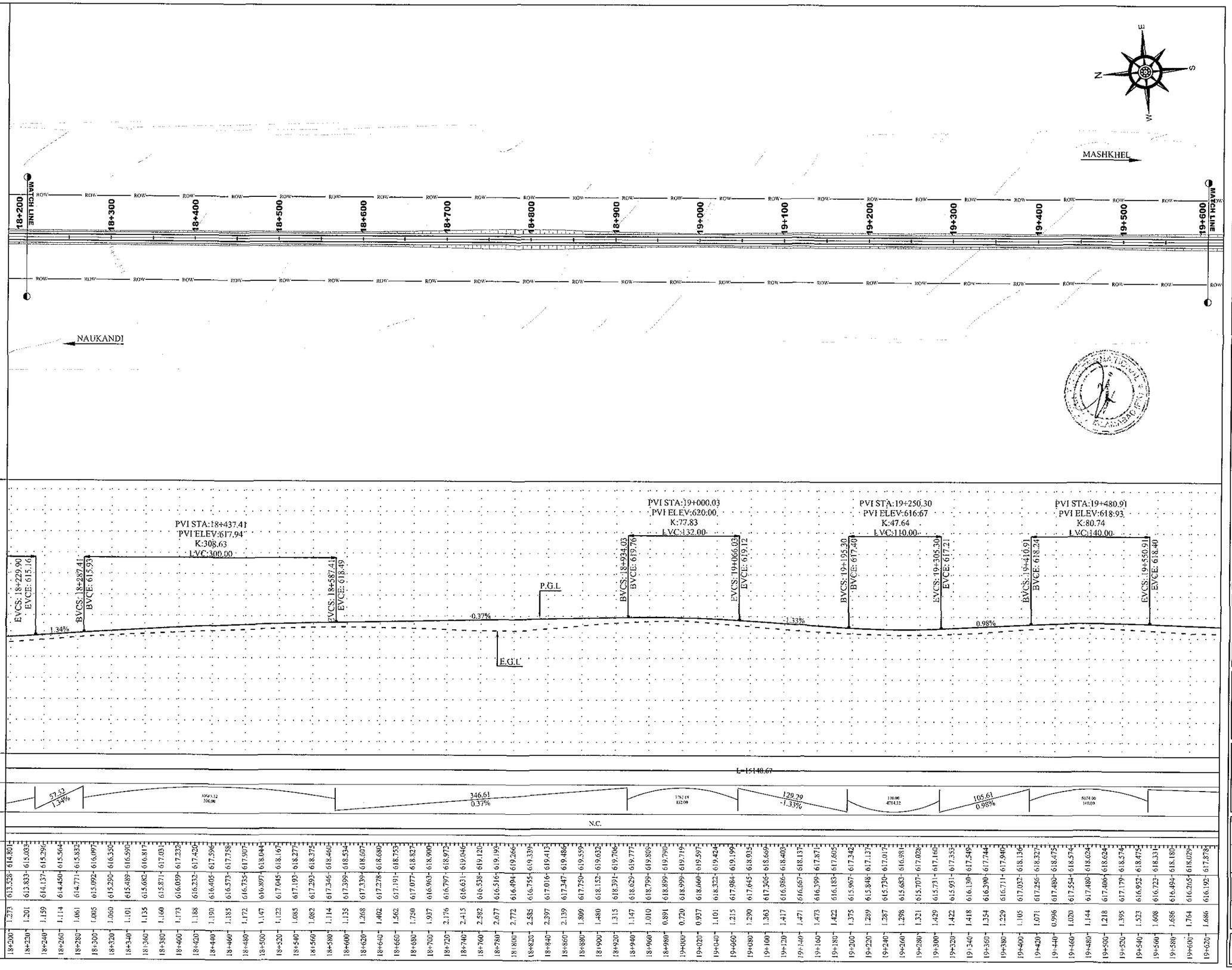
DRAWING TITLE:

PLAN & PROFILE
KM 16+800 TO 18+200

DESIGN BY: AYESHA SHABBIR	SHEET NO: 13 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/13



CH	LD	NSL	PGL
18+200	1.273	613.526	614.801
18+220	1.201	613.833	615.035
18+240	1.159	614.137	615.296
18+260	1.114	614.450	615.564
18+280	1.061	614.771	615.832
18+300	1.005	615.092	616.097
18+320	1.060	615.290	616.350
18+340	1.101	615.489	616.590
18+360	1.135	615.682	616.817
18+380	1.160	615.871	617.031
18+400	1.173	616.059	617.232
18+420	1.188	616.232	617.420
18+440	1.190	616.405	617.596
18+460	1.185	616.573	617.758
18+480	1.172	616.735	617.907
18+500	1.147	616.897	618.044
18+520	1.122	617.045	618.167
18+540	1.083	617.193	618.277
18+560	1.082	617.293	618.375
18+580	1.114	617.346	618.460
18+600	1.135	617.399	618.534
18+620	1.268	617.339	618.607
18+640	1.402	617.278	618.680
18+660	1.562	617.191	618.753
18+680	1.750	617.077	618.827
18+700	1.937	616.963	618.900
18+720	2.176	616.797	618.972
18+740	2.413	616.631	619.046
18+760	2.582	616.538	619.120
18+780	2.677	616.516	619.193
18+800	2.772	616.494	619.266
18+820	2.582	616.755	619.339
18+840	2.397	617.016	619.413
18+860	2.139	617.347	619.486
18+880	1.809	617.750	619.559
18+900	1.480	618.152	619.632
18+920	1.315	618.391	619.706
18+940	1.147	618.629	619.777
18+960	1.010	618.799	619.809
18+980	0.891	618.899	619.790
19+000	0.720	618.999	619.719
19+020	0.937	618.660	619.597
19+040	1.101	618.322	619.424
19+060	1.215	617.984	619.199
19+080	1.290	617.645	618.935
19+100	1.363	617.306	618.669
19+120	1.417	616.986	618.403
19+140	1.471	616.667	618.137
19+160	1.473	616.399	617.871
19+180	1.422	616.183	617.605
19+200	1.375	615.967	617.342
19+220	1.289	615.848	617.137
19+240	1.287	615.730	617.017
19+260	1.298	615.683	616.981
19+280	1.321	615.707	617.028
19+300	1.429	615.731	617.160
19+320	1.422	615.931	617.353
19+340	1.418	616.130	617.549
19+360	1.354	616.390	617.744
19+380	1.229	616.711	617.940
19+400	1.105	617.032	618.136
19+420	1.071	617.256	618.327
19+440	0.996	617.480	618.475
19+460	1.020	617.554	618.574
19+480	1.144	617.480	618.624
19+500	1.218	617.406	618.624
19+520	1.395	617.179	618.574
19+540	1.523	616.952	618.475
19+560	1.608	616.723	618.331
19+580	1.686	616.494	618.180
19+600	1.764	616.265	618.029
19+620	1.686	616.192	617.878

NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 1.5 (CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL(PVT) LTD
3rd Floor, Time Square Plaza,
1-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

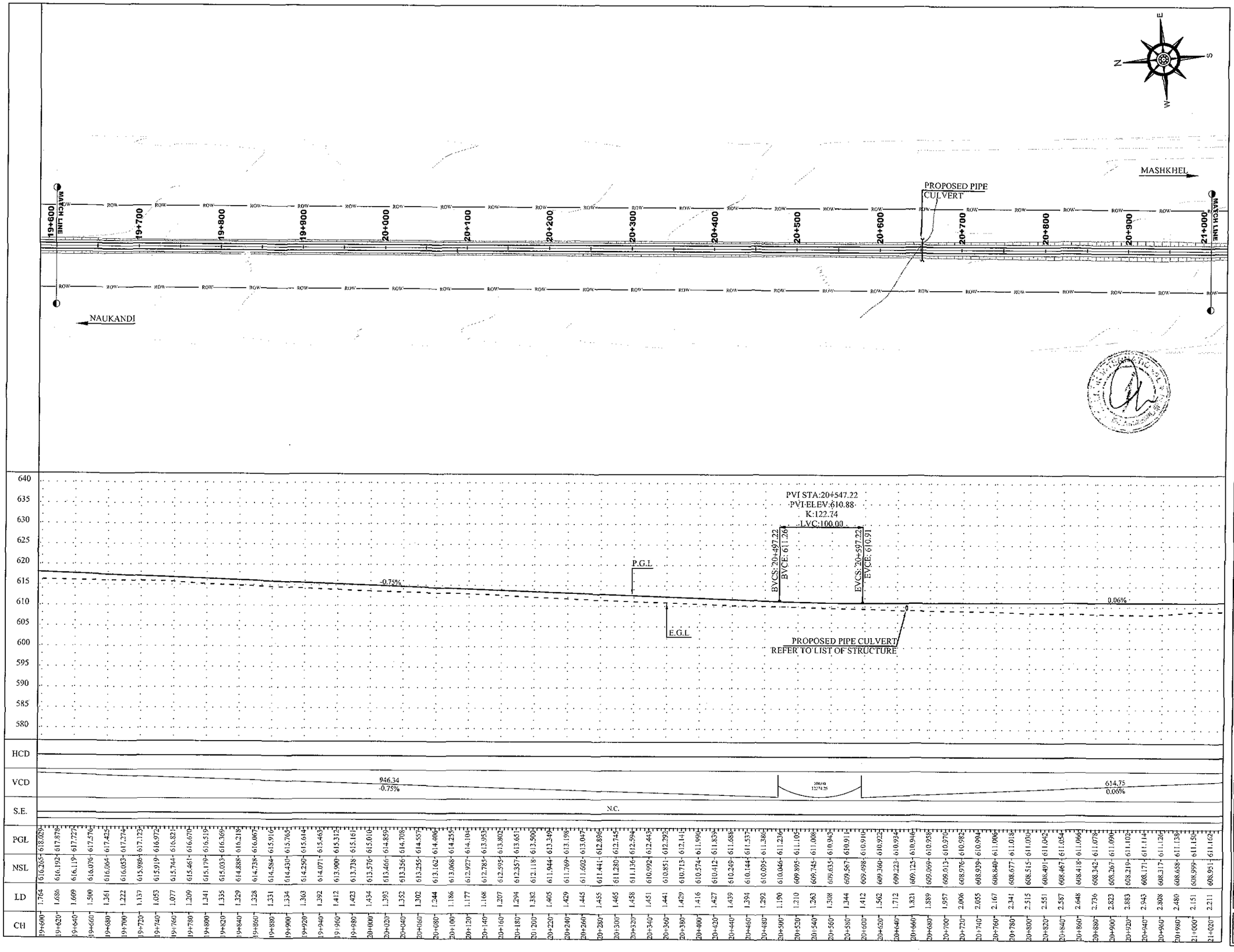
DRAWING TITLE:

PLAN & PROFILE
KM 18+200 TO 19+600

DESIGN BY: AYESHA SHABBIR	SHEET NO: 14 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/14



NOTES

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LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 1.5 (CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

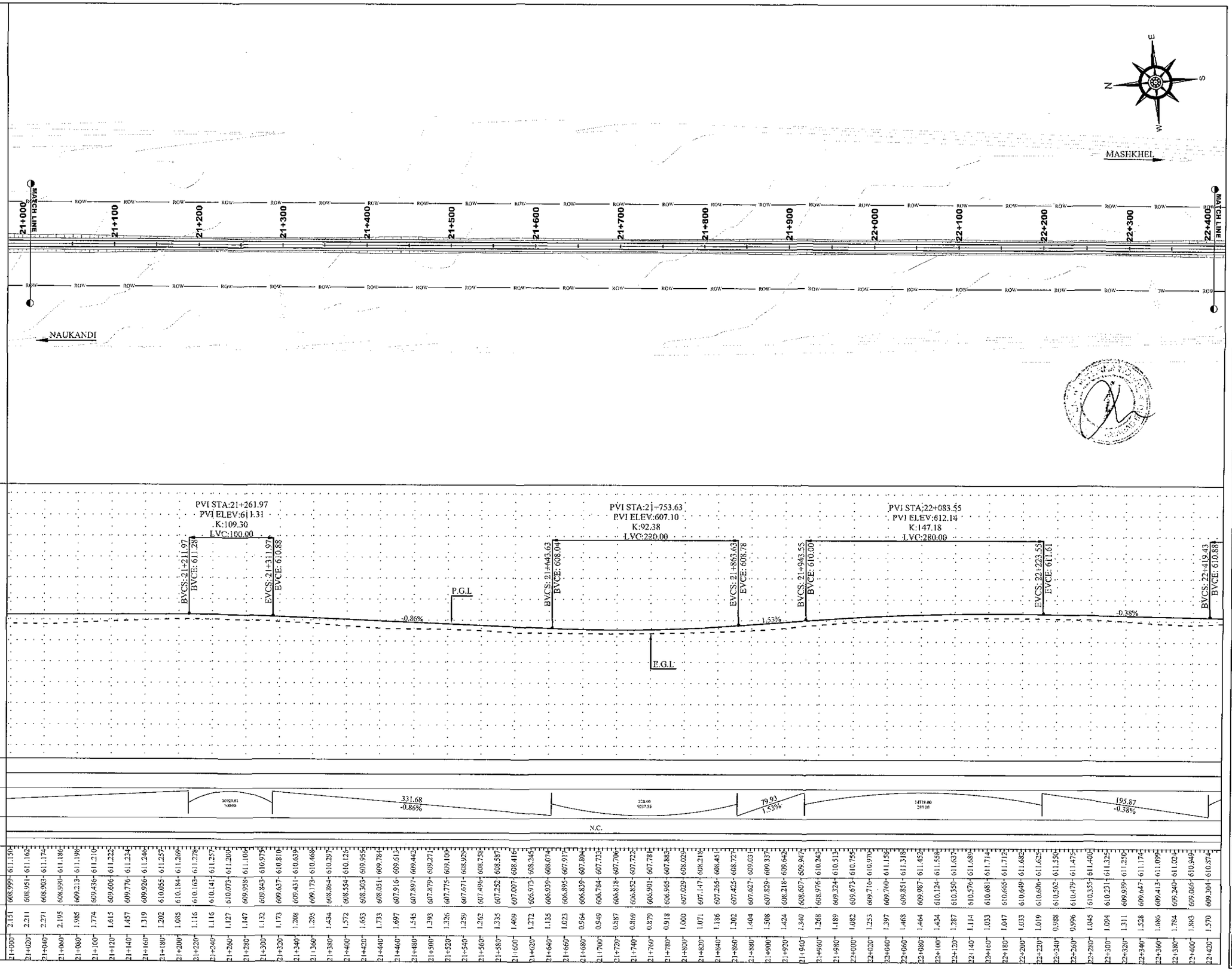
ZEFRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938212-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

PLAN & PROFILE
KM 19+600 TO 21+000

DESIGN BY: AYESHA SHABBIR	SHEET NO: 15 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/P/15



NOTES

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LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 1.5 CELL - W X H

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
FGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

01		
00		
REV.	REVISION/ISSUE	DATE

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEBRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

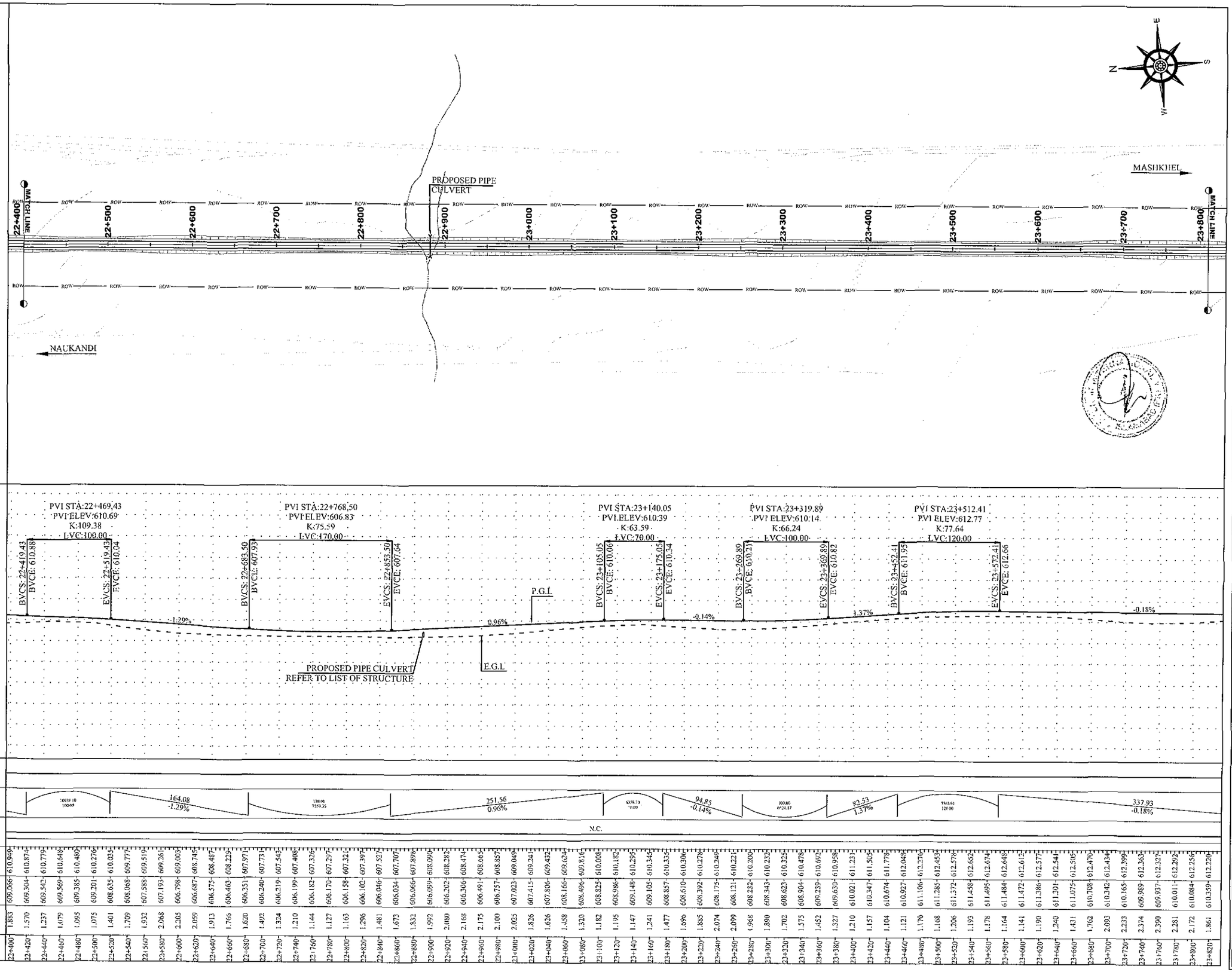
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

PLAN & PROFILE
KM 21+600 TO 22+400

DESIGN BY: AYESHA SHABBIR	SHEET NO: 16 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/16



NOTES

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LEGEND

- CENTER LINE
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- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
18 Murtaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

PLAN & PROFILE
KM 22+400 TO 23+800

DESIGN BY: AYESHA SHABBIR	SHEET NO: 17 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV. 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

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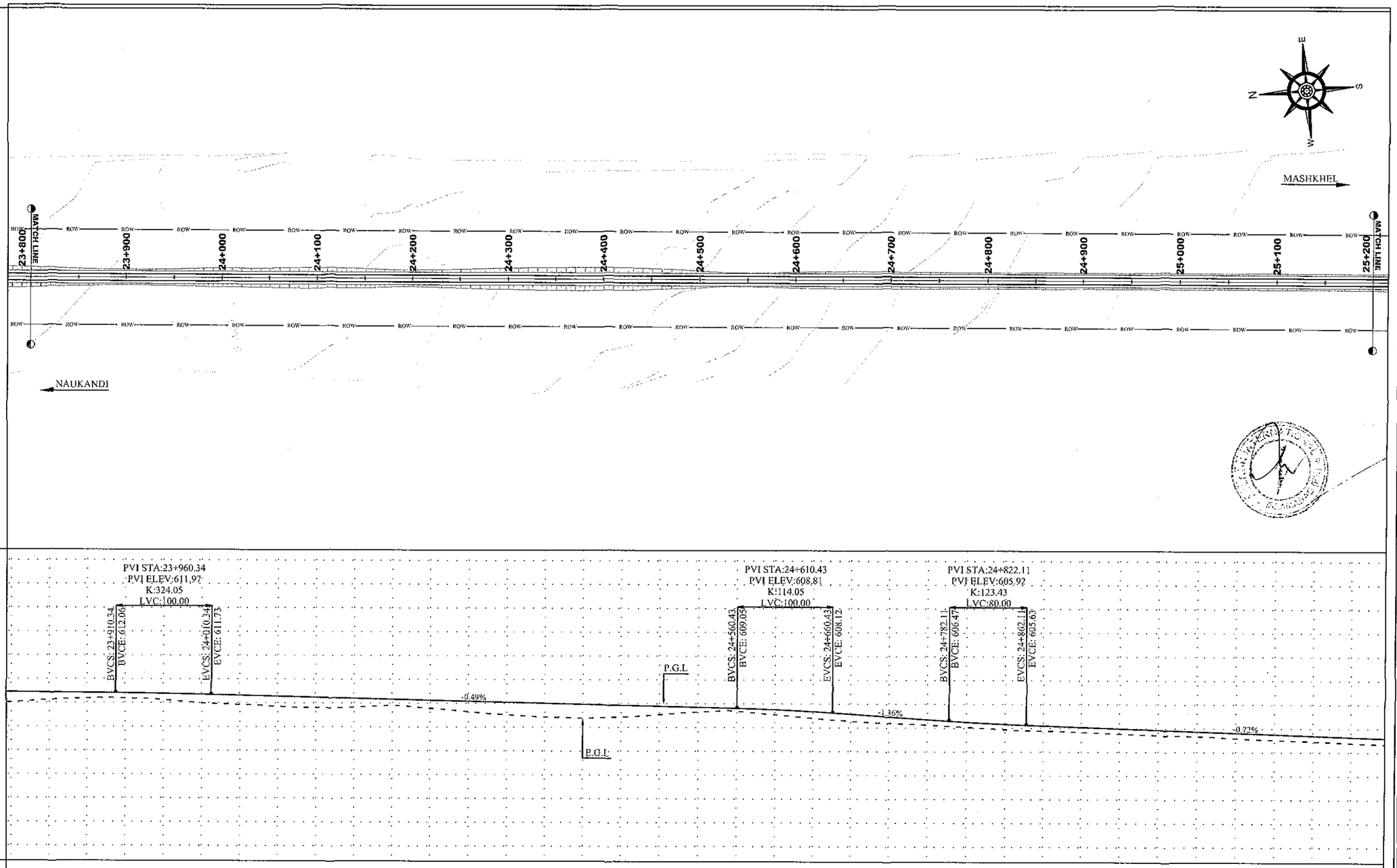

NOTES

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LEGEND

- CENTER LINE
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- P.G.L
- E.G.L
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- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
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BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

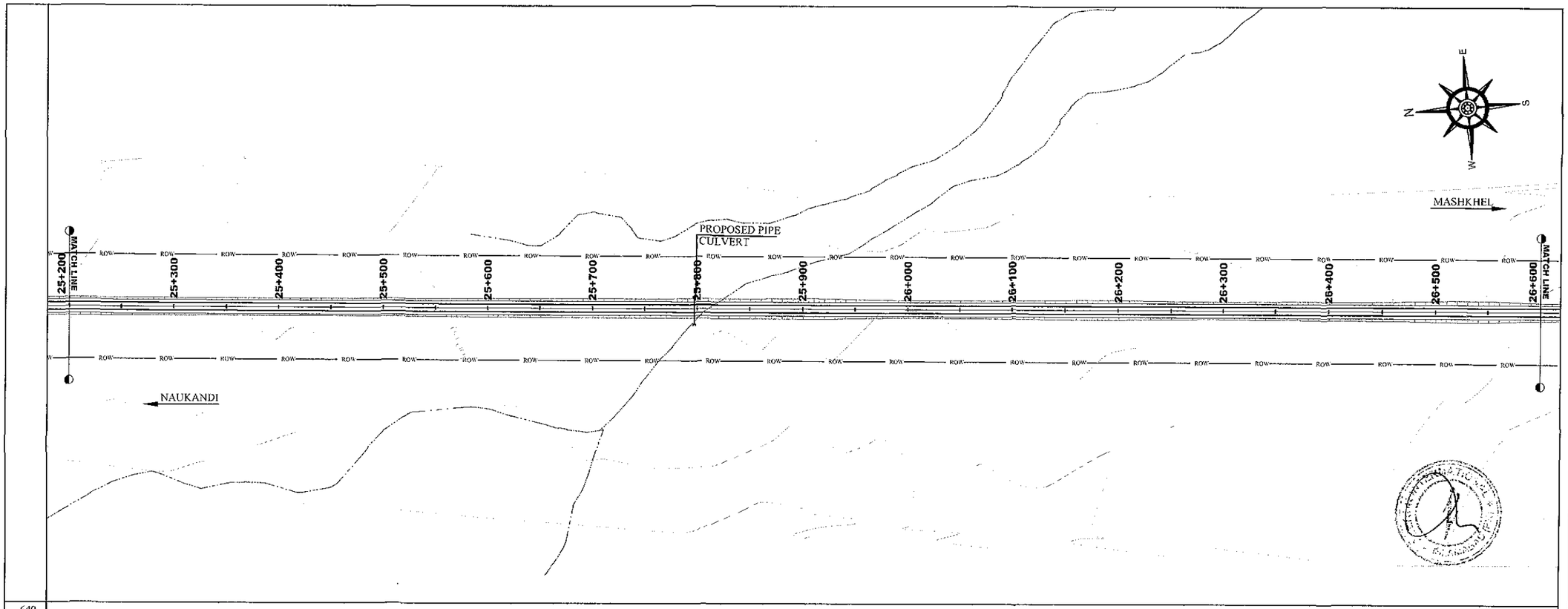
DRAWING TITLE:

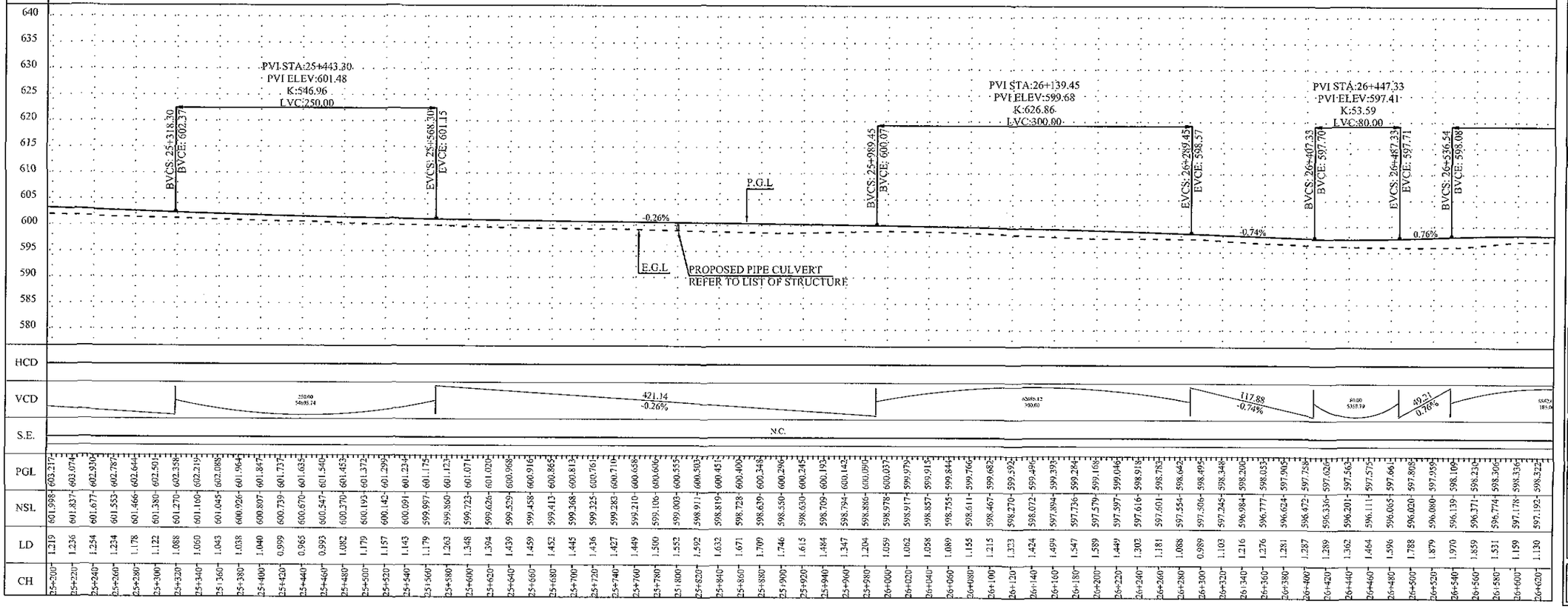
PLAN & PROFILE
KM 23+800 TO 25+200

DESIGN BY: AYESHA SHABBIR	SHEET NO: 18 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/18

CH	PGL	NSL	LD
23+800	612.256	610.084	2.172
23+820	612.220	610.359	1.861
23+840	612.185	610.635	1.550
23+860	612.149	610.833	1.316
23+880	612.114	610.955	1.158
23+900	612.079	611.078	1.000
23+920	612.041	610.958	1.083
23+940	611.990	610.835	1.155
23+960	611.933	610.611	1.322
23+980	611.865	610.278	1.583
24+000	611.770	609.944	1.831
24+020	611.680	609.802	1.878
24+040	611.583	609.660	1.922
24+060	611.485	609.484	2.001
24+080	611.398	609.274	2.114
24+100	611.291	609.064	2.226
24+120	611.193	609.057	2.137
24+140	611.096	609.049	2.047
24+160	610.999	609.152	1.847
24+180	610.901	609.363	1.538
24+200	610.804	609.575	1.229
24+220	610.707	609.255	1.452
24+240	610.609	608.934	1.675
24+260	610.512	608.591	1.921
24+280	610.415	608.226	2.188
24+300	610.317	607.861	2.456
24+320	610.220	607.607	2.613
24+340	610.122	607.353	2.770
24+360	610.025	607.166	2.859
24+380	609.928	607.048	2.880
24+400	609.830	606.930	2.900
24+420	609.733	607.040	2.693
24+440	609.636	607.150	2.486
24+460	609.538	607.368	2.170
24+480	609.441	607.694	1.747
24+500	609.344	608.020	1.323
24+520	609.246	608.245	1.001
24+540	609.149	608.469	0.680
24+560	609.052	608.410	0.641
24+580	608.937	608.068	0.869
24+600	608.788	607.726	1.063
24+620	608.604	607.355	1.249
24+640	608.385	606.984	1.401
24+660	608.130	606.666	1.465
24+680	607.858	606.400	1.458
24+700	607.585	606.134	1.451
24+720	607.312	605.973	1.339
24+740	607.039	605.813	1.227
24+760	606.767	605.622	1.145
24+780	606.494	605.402	1.092
24+800	606.234	605.181	1.053
24+820	606.007	604.937	1.070
24+840	605.812	604.693	1.118
24+860	605.649	604.528	1.121
24+880	605.506	604.442	1.064
24+900	605.363	604.356	1.007
24+920	605.220	604.179	1.041
24+940	605.077	604.002	1.074
24+960	604.932	603.843	1.091
24+980	604.790	603.701	1.089
25+000	604.647	603.559	1.088
25+020	604.504	603.458	1.046
25+040	604.361	603.358	1.004
25+060	604.218	603.187	1.031
25+080	604.075	602.946	1.129
25+100	603.932	602.705	1.227
25+120	603.789	602.590	1.199
25+140	603.646	602.474	1.172
25+160	603.503	602.332	1.171
25+180	603.360	602.165	1.195
25+200	603.217	601.998	1.219
25+220	603.074	601.837	1.236





CH	PGL	NSL	LD
25+200	603.217	601.998	1.219
25+220	603.074	601.837	1.236
25+240	602.930	601.677	1.254
25+260	602.787	601.553	1.234
25+280	602.644	601.466	1.178
25+300	602.501	601.380	1.122
25+320	602.358	601.270	1.088
25+340	602.219	601.160	1.060
25+360	602.085	601.045	1.043
25+380	601.964	600.926	1.038
25+400	601.847	600.807	1.040
25+420	601.737	600.739	0.999
25+440	601.635	600.670	0.965
25+460	601.540	600.547	0.993
25+480	601.455	600.370	1.082
25+500	601.372	600.193	1.179
25+520	601.299	600.142	1.157
25+540	601.234	600.091	1.143
25+560	601.175	599.997	1.179
25+580	601.123	599.860	1.263
25+600	601.071	599.723	1.348
25+620	601.020	599.626	1.394
25+640	600.968	599.529	1.439
25+660	600.916	599.458	1.459
25+680	600.865	599.413	1.452
25+700	600.813	599.368	1.445
25+720	600.761	599.325	1.436
25+740	600.710	599.283	1.427
25+760	600.658	599.210	1.449
25+780	600.606	599.106	1.500
25+800	600.555	599.003	1.552
25+820	600.503	598.911	1.592
25+840	600.451	598.819	1.632
25+860	600.400	598.728	1.671
25+880	600.348	598.639	1.709
25+900	600.296	598.550	1.746
25+920	600.245	598.630	1.615
25+940	600.193	598.709	1.484
25+960	600.142	598.794	1.347
25+980	600.090	598.886	1.204
26+000	600.037	598.978	1.059
26+020	599.979	598.917	1.062
26+040	599.915	598.857	1.058
26+060	599.844	598.755	1.089
26+080	599.766	598.611	1.155
26+100	599.682	598.467	1.215
26+120	599.592	598.270	1.323
26+140	599.496	598.072	1.424
26+160	599.395	597.894	1.499
26+180	599.294	597.736	1.547
26+200	599.190	597.579	1.589
26+220	599.046	597.597	1.449
26+240	598.918	597.616	1.302
26+260	598.782	597.601	1.181
26+280	598.644	597.556	1.088
26+300	598.495	597.506	0.989
26+320	598.346	597.245	1.103
26+340	598.200	596.984	1.216
26+360	598.055	596.777	1.276
26+380	597.900	596.624	1.281
26+400	597.758	596.472	1.287
26+420	597.626	596.336	1.289
26+440	597.563	596.201	1.362
26+460	597.575	596.111	1.464
26+480	597.661	596.065	1.596
26+500	597.898	596.020	1.788
26+520	597.959	596.080	1.879
26+540	598.109	596.139	1.970
26+560	598.230	596.371	1.859
26+580	598.306	596.774	1.531
26+600	598.336	597.178	1.159
26+620	598.322	597.192	1.130

NOTES

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LEGEND

- CENTER LINE
- ROAD EDGE
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- P.G.L
- E.G.L
- BUILDING
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- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 1.5 (CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
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W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

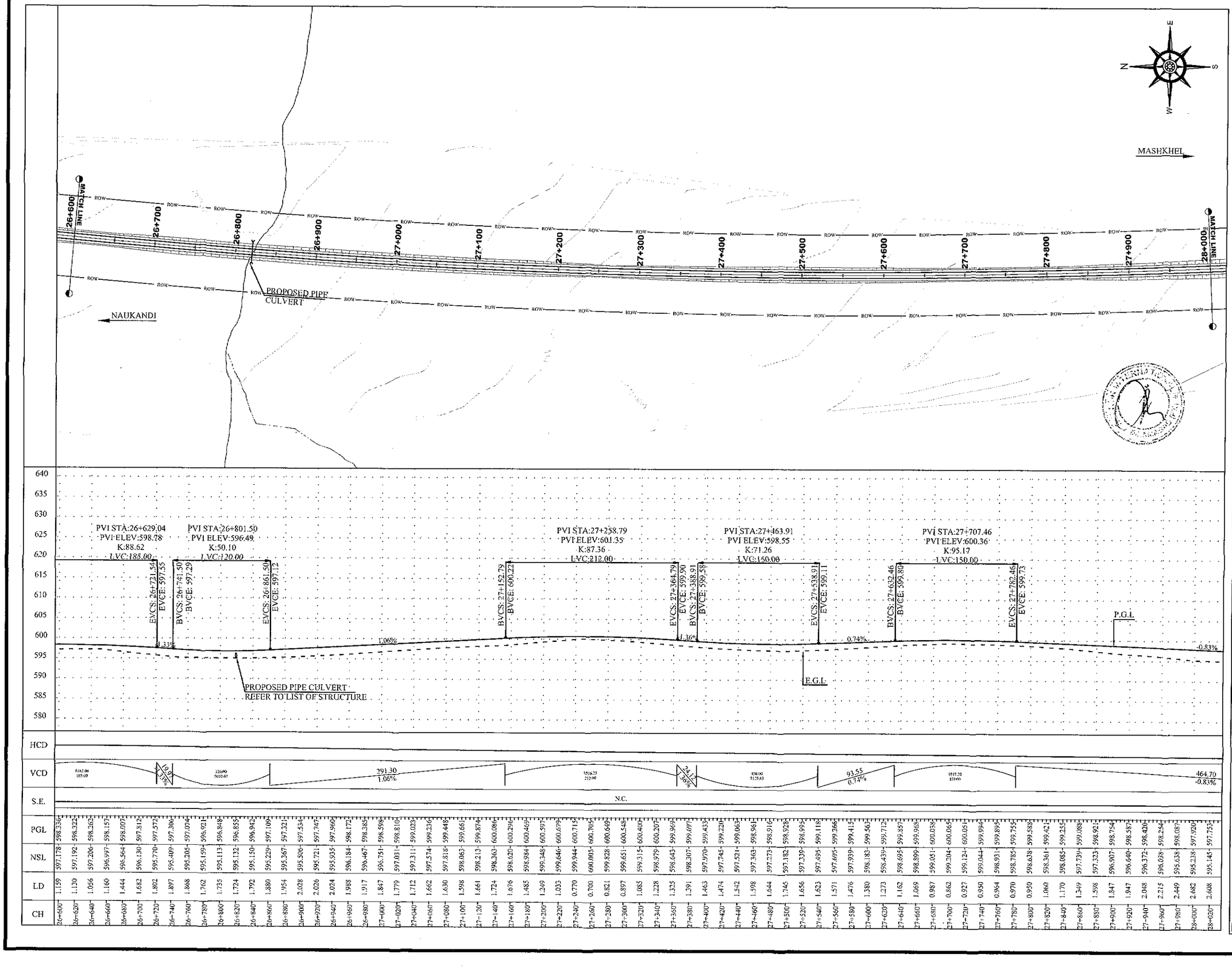
CLIENT :
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEBRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
PLAN & PROFILE
KM 25+200 TO 26+600

DESIGN BY: AYESHA SHABBIR	SHEET NO: 19 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/P/19



NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 1.5 (CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

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I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

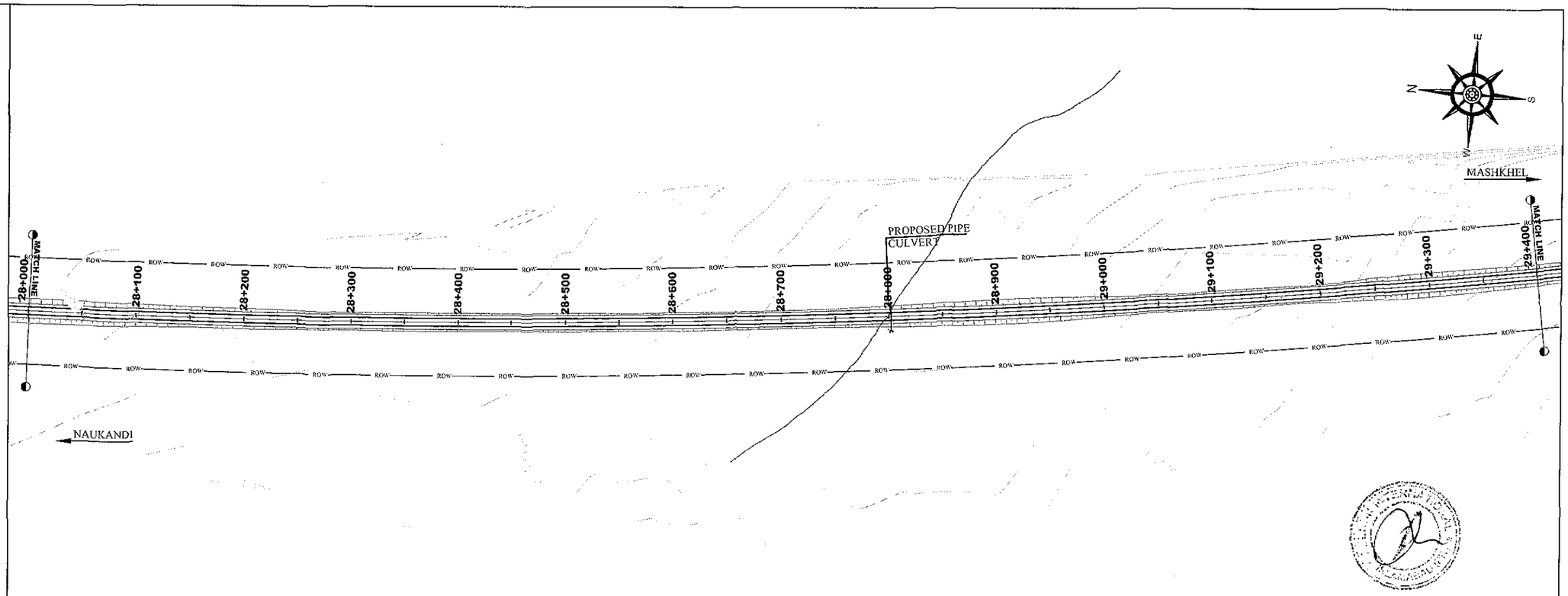
KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

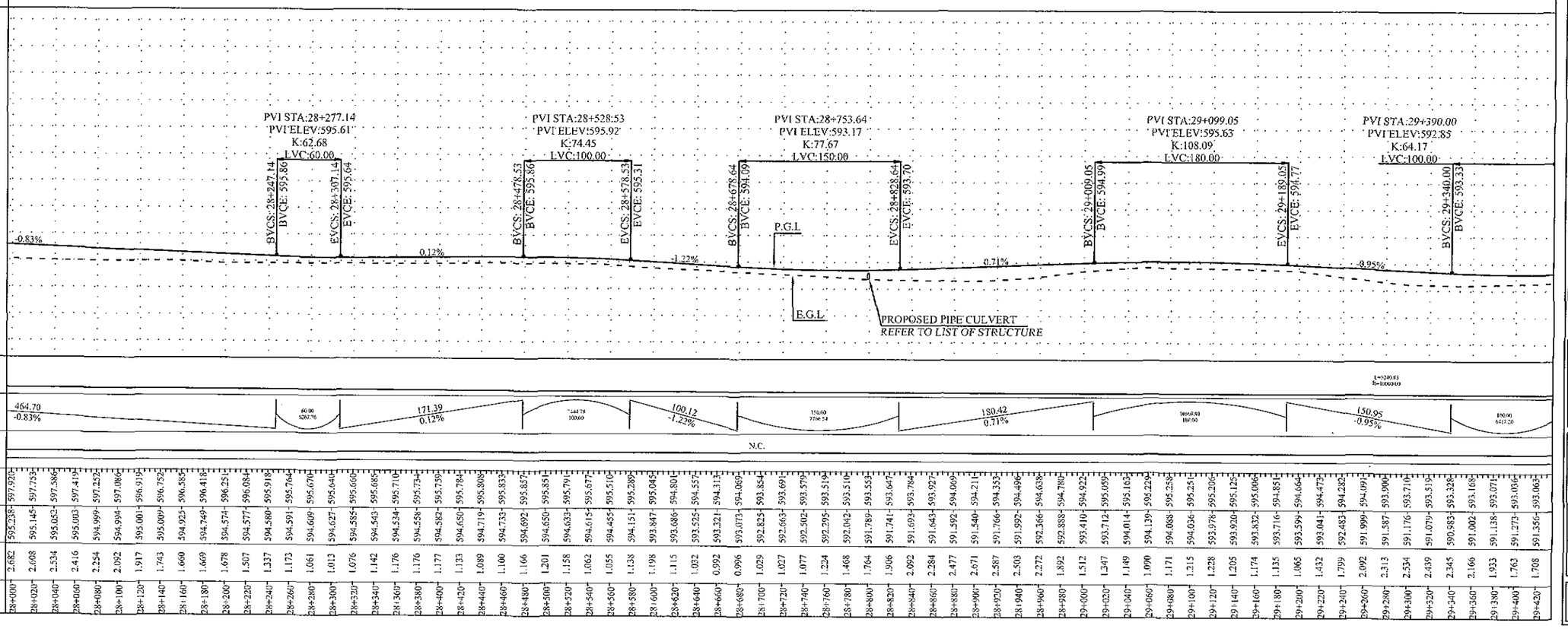
DRAWING TITLE:

PLAN & PROFILE
KM 26+600 TO 28+000

DESIGN BY: AYESHA SHABBIR	SHEET NO: 20 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/20





CH	PGL	NSL	LD
28+000	597.920	595.238	2.682
28+020	597.753	595.145	2.608
28+040	597.586	595.052	2.534
28+060	597.419	595.003	2.416
28+080	597.252	594.999	2.254
28+100	597.088	594.996	2.092
28+120	596.919	595.001	1.917
28+140	596.752	595.009	1.743
28+160	596.585	594.925	1.660
28+180	596.418	594.749	1.669
28+200	596.251	594.574	1.678
28+220	596.084	594.577	1.507
28+240	595.918	594.580	1.337
28+260	595.764	594.591	1.173
28+280	595.670	594.609	1.061
28+300	595.640	594.627	1.013
28+320	595.660	594.585	1.076
28+340	595.685	594.543	1.142
28+360	595.710	594.534	1.176
28+380	595.734	594.558	1.176
28+400	595.759	594.582	1.177
28+420	595.784	594.650	1.133
28+440	595.808	594.719	1.089
28+460	595.833	594.733	1.100
28+480	595.857	594.692	1.166
28+500	595.851	594.650	1.201
28+520	595.791	594.633	1.158
28+540	595.677	594.615	1.062
28+560	595.510	594.455	1.055
28+580	595.289	594.151	1.138
28+600	595.045	593.847	1.198
28+620	594.801	593.686	1.115
28+640	594.557	593.525	1.032
28+660	594.313	593.321	0.992
28+680	594.069	593.073	0.996
28+700	593.854	592.825	1.029
28+720	593.691	592.663	1.027
28+740	593.579	592.502	1.077
28+760	593.519	592.295	1.224
28+780	593.510	592.042	1.468
28+800	593.553	591.789	1.764
28+820	593.647	591.741	1.906
28+840	593.784	591.693	2.092
28+860	593.927	591.643	2.284
28+880	594.069	591.592	2.477
28+900	594.211	591.540	2.671
28+920	594.353	591.766	2.587
28+940	594.496	591.992	2.503
28+960	594.638	592.366	2.272
28+980	594.780	592.888	1.892
29+000	594.922	593.410	1.512
29+020	595.059	593.712	1.347
29+040	595.163	594.014	1.149
29+060	595.229	594.139	1.090
29+080	595.258	594.088	1.171
29+100	595.251	594.036	1.215
29+120	595.205	593.978	1.228
29+140	595.125	593.920	1.205
29+160	595.006	593.832	1.174
29+180	594.851	593.716	1.135
29+200	594.664	593.599	1.065
29+220	594.475	593.043	1.432
29+240	594.283	592.483	1.799
29+260	594.191	591.999	2.092
29+280	593.900	591.587	2.313
29+300	593.710	591.176	2.534
29+320	593.519	591.079	2.439
29+340	593.328	590.983	2.345
29+360	593.169	591.002	2.166
29+380	593.071	591.138	1.933
29+400	593.036	591.273	1.762
29+420	593.065	591.356	1.708

NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

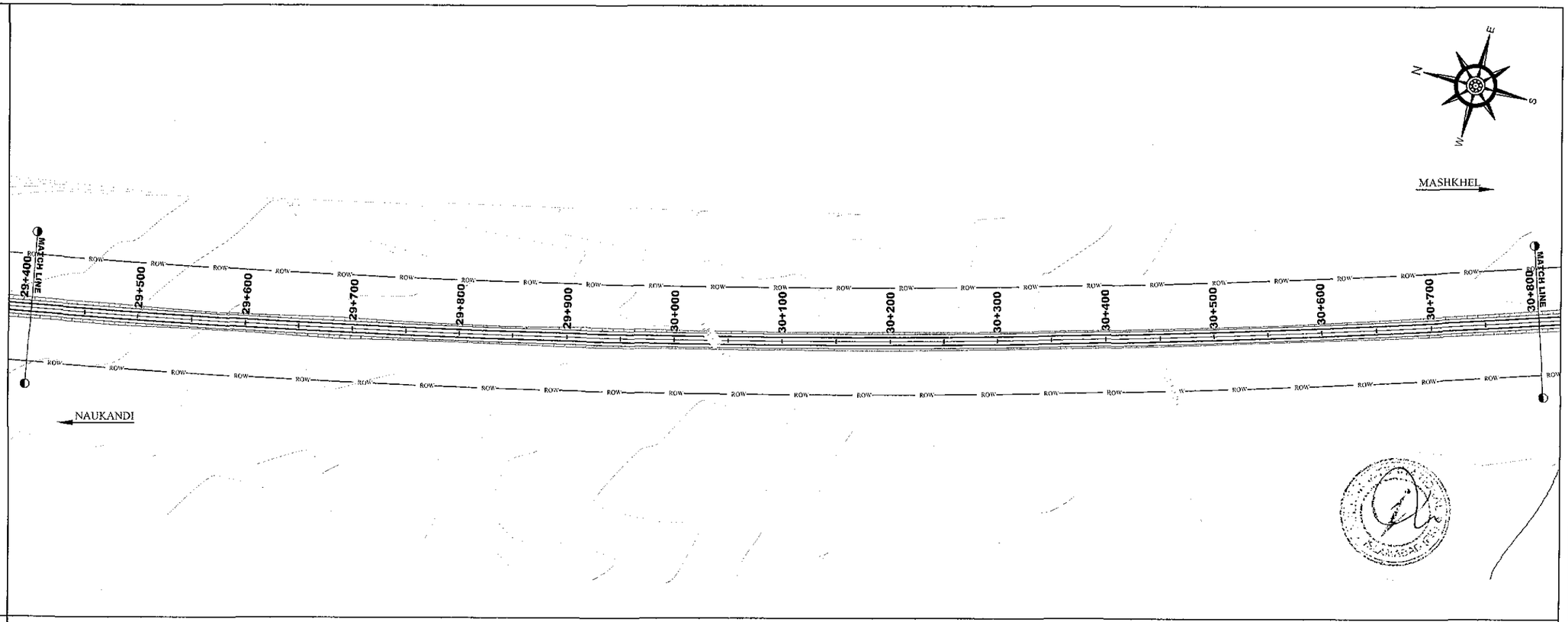
DRAWING TITLE:

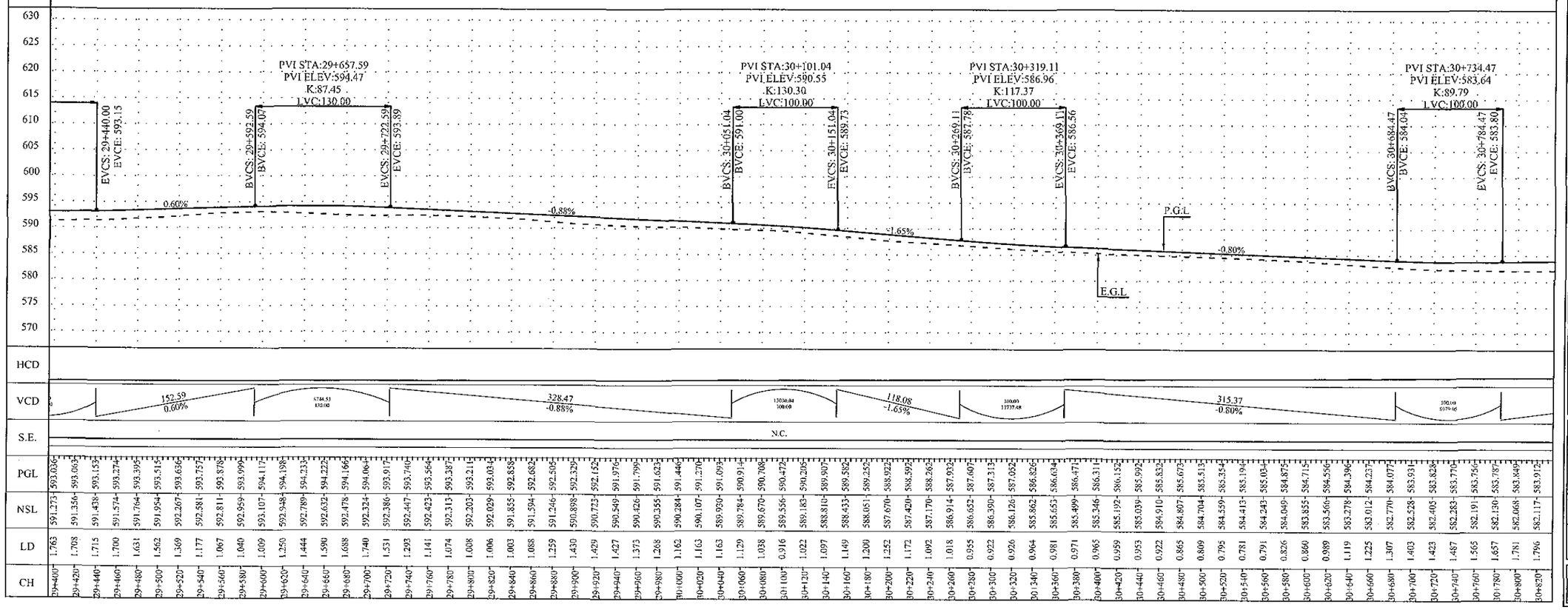
PLAN & PROFILE
KM 28+000 TO 29+400

DESIGN BY: AYESHA SHABBIR	SHEET NO: 21 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/21





CH	PGL	NSL	LD
29+400	593.036	591.273	1.763
29+420	593.063	591.356	1.708
29+440	593.152	591.438	1.715
29+460	593.274	591.574	1.700
29+480	593.395	591.764	1.631
29+500	593.515	591.954	1.562
29+520	593.636	592.267	1.369
29+540	593.757	592.581	1.177
29+560	593.878	592.811	1.067
29+580	593.999	592.959	1.040
29+600	594.117	593.107	1.009
29+620	594.198	593.948	1.250
29+640	594.233	592.789	1.444
29+660	594.222	592.632	1.590
29+680	594.166	592.478	1.688
29+700	594.064	592.324	1.740
29+720	593.917	592.386	1.531
29+740	593.740	592.447	1.293
29+760	593.564	592.423	1.141
29+780	593.387	592.313	1.074
29+800	593.211	592.203	1.008
29+820	593.034	592.029	1.006
29+840	592.858	591.855	1.003
29+860	592.682	591.594	1.088
29+880	592.505	591.246	1.259
29+900	592.329	590.898	1.430
29+920	592.152	590.723	1.429
29+940	591.976	590.549	1.427
29+960	591.799	590.426	1.373
29+980	591.623	590.355	1.268
30+000	591.446	590.284	1.162
30+020	591.270	590.107	1.163
30+040	591.093	589.930	1.163
30+060	590.914	589.784	1.129
30+080	590.708	589.670	1.038
30+100	590.472	589.556	0.916
30+120	590.205	589.183	1.022
30+140	589.907	588.810	1.097
30+160	589.582	588.433	1.149
30+180	589.229	588.051	1.200
30+200	588.922	587.670	1.252
30+220	588.595	587.420	1.172
30+240	588.263	587.170	1.092
30+260	587.932	586.914	1.018
30+280	587.607	586.652	0.955
30+300	587.315	586.390	0.922
30+320	587.052	586.126	0.926
30+340	586.826	585.862	0.964
30+360	586.634	585.652	0.981
30+380	586.471	585.499	0.971
30+400	586.311	585.346	0.965
30+420	586.152	585.192	0.959
30+440	585.992	585.039	0.953
30+460	585.832	584.910	0.922
30+480	585.673	584.807	0.865
30+500	585.513	584.704	0.809
30+520	585.354	584.559	0.795
30+540	585.194	584.413	0.781
30+560	585.034	584.243	0.791
30+580	584.875	584.049	0.826
30+600	584.715	583.855	0.860
30+620	584.556	583.566	0.989
30+640	584.396	583.278	1.119
30+660	584.237	583.012	1.225
30+680	584.077	582.770	1.307
30+700	583.931	582.528	1.403
30+720	583.828	582.405	1.423
30+740	583.770	582.283	1.487
30+760	583.750	582.191	1.565
30+780	583.787	582.130	1.657
30+800	583.849	582.068	1.781
30+820	583.912	582.117	1.796

NOTES

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LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 / CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
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PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
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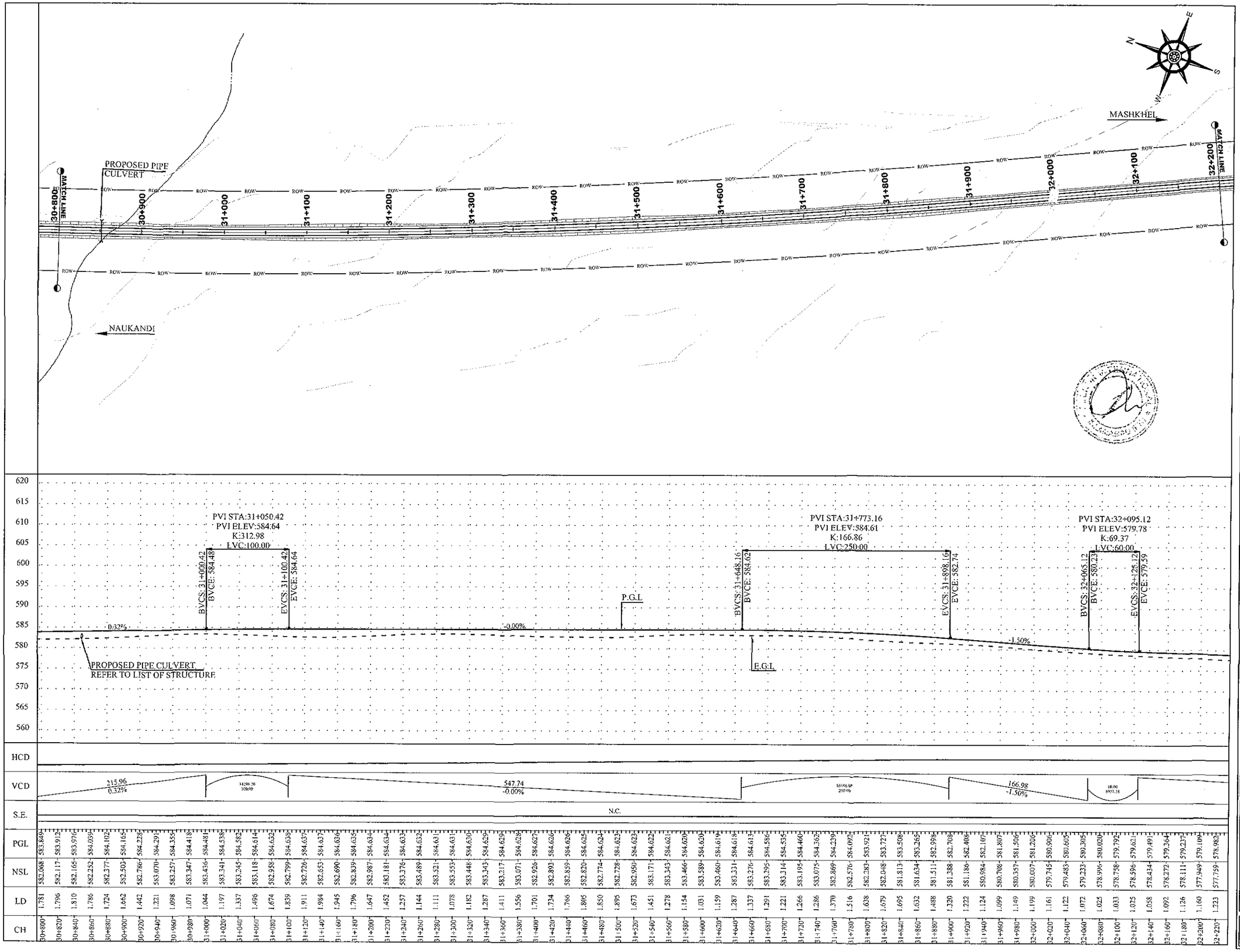
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
PLAN & PROFILE
KM 29+400 TO 30+800

DESIGN BY: AYESHA SHABBIR	SHEET NO: 22 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/P/22



CH	PGL	NSL	LD
30+800	583.849	582.068	1.781
30+820	583.912	582.117	1.796
30+840	583.976	582.165	1.810
30+860	584.039	582.252	1.786
30+880	584.102	582.377	1.724
30+900	584.165	582.503	1.662
30+920	584.228	582.786	1.442
30+940	584.291	583.070	1.221
30+960	584.355	583.257	1.098
30+980	584.418	583.347	1.071
31+000	584.481	583.436	1.044
31+020	584.538	583.341	1.197
31+040	584.582	583.245	1.337
31+060	584.614	583.118	1.496
31+080	584.622	582.948	1.674
31+100	584.638	582.799	1.839
31+120	584.637	582.726	1.911
31+140	584.637	582.653	1.984
31+160	584.636	582.690	1.945
31+180	584.635	582.839	1.796
31+200	584.634	582.987	1.647
31+220	584.634	583.181	1.452
31+240	584.633	583.376	1.257
31+260	584.633	583.489	1.144
31+280	584.631	583.521	1.111
31+300	584.631	583.553	1.078
31+320	584.630	583.448	1.182
31+340	584.629	583.343	1.287
31+360	584.628	583.217	1.411
31+380	584.628	583.071	1.556
31+400	584.627	582.926	1.701
31+420	584.626	582.893	1.734
31+440	584.626	582.859	1.766
31+460	584.625	582.820	1.805
31+480	584.624	582.774	1.850
31+500	584.623	582.728	1.895
31+520	584.623	582.950	1.673
31+540	584.622	583.171	1.451
31+560	584.621	583.343	1.278
31+580	584.620	583.466	1.154
31+600	584.620	583.589	1.031
31+620	584.619	583.460	1.159
31+640	584.618	583.331	1.287
31+660	584.613	583.276	1.337
31+680	584.586	583.295	1.291
31+700	584.535	583.314	1.221
31+720	584.460	583.195	1.266
31+740	584.362	583.075	1.286
31+760	584.239	582.869	1.370
31+780	584.092	582.576	1.516
31+800	583.921	582.283	1.638
31+820	583.727	582.048	1.679
31+840	583.508	581.813	1.695
31+860	583.265	581.634	1.632
31+880	582.999	581.511	1.488
31+900	582.708	581.388	1.320
31+920	582.408	581.186	1.222
31+940	582.107	580.984	1.124
31+960	581.807	580.708	1.099
31+980	581.506	580.357	1.149
32+000	581.206	580.007	1.199
32+020	580.906	579.745	1.161
32+040	580.605	579.483	1.122
32+060	580.305	579.233	1.072
32+080	580.020	578.996	1.025
32+100	579.792	578.758	1.033
32+120	579.621	578.596	1.025
32+140	579.491	578.434	1.058
32+160	579.364	578.272	1.092
32+180	579.237	578.111	1.126
32+200	579.109	577.949	1.160
32+220	578.982	577.759	1.223

NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5, CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

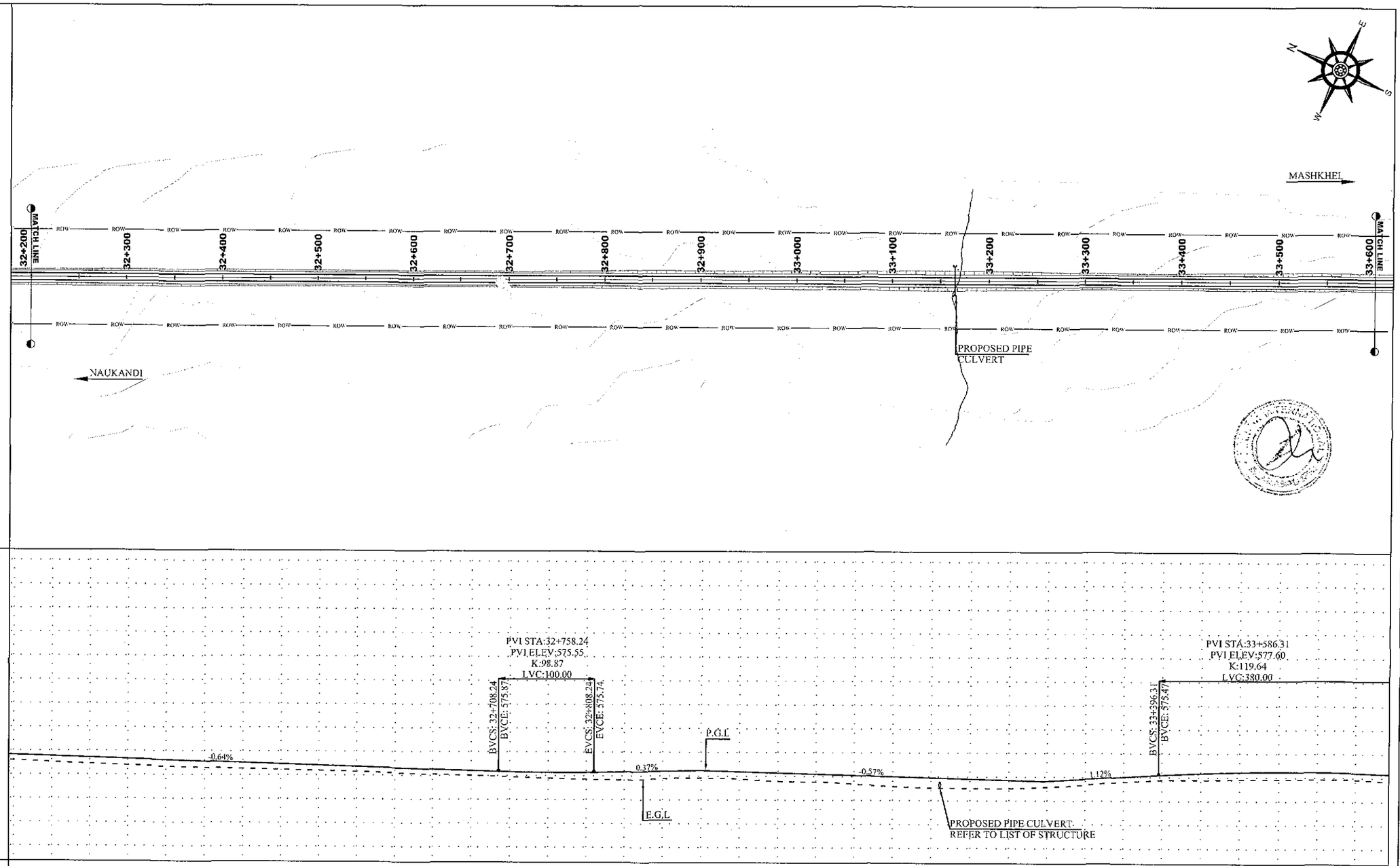
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

PLAN & PROFILE
KM 30+800 TO 32+200

DESIGN BY: AYESHA SHABBIR	SHEET NO: 23 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/23



CH	PGL	NSL	LD
32+200	579.105	577.940	1.160
32+220	578.982	577.759	1.223
32+240	578.854	577.568	1.286
32+260	578.727	577.409	1.318
32+280	578.598	577.282	1.317
32+300	578.472	577.155	1.317
32+320	578.345	576.996	1.349
32+340	578.217	576.836	1.381
32+360	578.090	576.707	1.382
32+380	577.963	576.610	1.352
32+400	577.835	576.512	1.323
32+420	577.708	576.418	1.290
32+440	577.580	576.323	1.257
32+460	577.453	576.234	1.218
32+480	577.325	576.151	1.174
32+500	577.196	576.068	1.130
32+520	577.070	575.982	1.089
32+540	576.945	575.896	1.047
32+560	576.816	575.784	1.031
32+580	576.688	575.647	1.041
32+600	576.561	575.510	1.050
32+620	576.435	575.396	1.037
32+640	576.306	575.282	1.024
32+660	576.179	575.166	1.012
32+680	576.051	575.048	1.003
32+700	575.924	574.930	0.994
32+720	575.805	574.769	1.034
32+740	575.720	574.608	1.112
32+760	575.677	574.476	1.201
32+780	575.674	574.371	1.303
32+800	575.712	574.267	1.446
32+820	575.784	574.223	1.561
32+840	575.850	574.179	1.679
32+860	575.934	574.245	1.688
32+880	576.008	574.421	1.587
32+900	576.083	574.597	1.486
32+920	576.152	574.567	1.585
32+940	576.039	574.537	1.501
32+960	575.925	574.399	1.526
32+980	575.811	574.152	1.659
33+000	575.697	573.905	1.792
33+020	575.584	573.872	1.711
33+040	575.470	573.839	1.631
33+060	575.356	573.691	1.665
33+080	575.243	573.428	1.814
33+100	575.129	573.165	1.964
33+120	575.015	572.969	2.046
33+140	574.902	572.773	2.129
33+160	574.788	572.657	2.131
33+180	574.674	572.621	2.054
33+200	574.561	572.585	1.976
33+220	574.447	572.601	1.846
33+240	574.334	572.618	1.715
33+260	574.220	572.714	1.505
33+280	574.170	572.890	1.280
33+300	574.395	573.066	1.329
33+320	574.619	573.401	1.218
33+340	574.843	573.736	1.107
33+360	575.067	574.013	1.054
33+380	575.292	574.233	1.059
33+400	575.515	574.452	1.063
33+420	575.717	574.463	1.254
33+440	575.885	574.474	1.411
33+460	576.019	574.505	1.514
33+480	576.120	574.556	1.564
33+500	576.188	574.607	1.581
33+520	576.222	574.634	1.588
33+540	576.223	574.660	1.563
33+560	576.190	574.674	1.516
33+580	576.124	574.676	1.448
33+600	576.024	574.678	1.347
33+620	575.891	574.402	1.489

NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

CENTER LINE
ROAD EDGE
SHOULDER EDGE
P.G.L
E.G.L
BUILDING
CANAL
TREE
PROPOSED BOX CULVERT
1 - 3.5 X 1.5
CELL - W X H

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

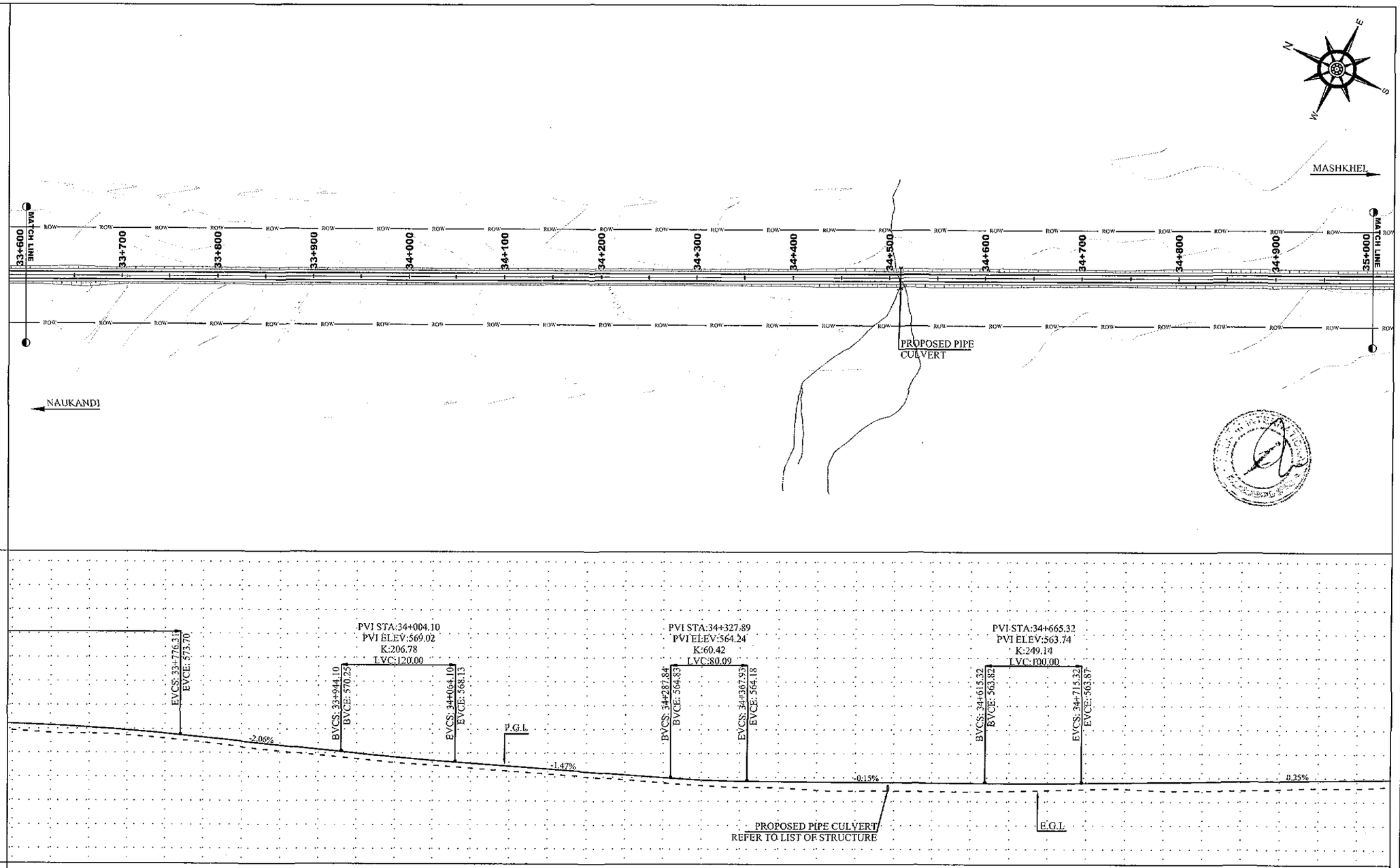
DRAWING TITLE:

PLAN & PROFILE
KM 32+200 TO 33+600

DESIGN BY: AYESHA SHABBIR	SHEET NO: 24 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/24



CH	PGL	NSL	LD
33+600	576.024	574.678	1.347
33+620	575.891	574.402	1.489
33+640	575.725	574.126	1.599
33+660	575.525	573.984	1.541
33+680	575.292	573.976	1.316
33+700	575.025	573.967	1.058
33+720	574.725	573.650	1.075
33+740	574.391	573.332	1.059
33+760	574.024	572.978	1.047
33+780	573.624	572.586	1.038
33+800	573.213	572.195	1.019
33+820	572.802	571.704	1.099
33+840	572.391	571.213	1.178
33+860	571.980	570.765	1.216
33+880	571.569	570.359	1.211
33+900	571.158	569.953	1.205
33+920	570.747	569.566	1.181
33+940	570.336	569.180	1.157
33+960	569.932	568.786	1.145
33+980	569.546	568.385	1.161
34+000	569.179	567.984	1.195
34+020	568.832	567.722	1.109
34+040	568.504	567.461	1.043
34+060	568.195	567.174	1.021
34+080	567.900	566.862	1.038
34+100	567.609	566.551	1.058
34+120	567.310	566.252	1.058
34+140	567.015	565.953	1.062
34+160	566.720	565.652	1.068
34+180	566.425	565.349	1.077
34+200	566.130	565.045	1.085
34+220	565.835	564.768	1.067
34+240	565.540	564.491	1.049
34+260	565.245	564.190	1.056
34+280	564.950	563.864	1.086
34+300	564.668	563.539	1.129
34+320	564.446	563.307	1.139
34+340	564.291	563.076	1.215
34+360	564.202	562.945	1.257
34+380	564.167	562.913	1.253
34+400	564.137	562.882	1.254
34+420	564.107	562.608	1.499
34+440	564.077	562.334	1.743
34+460	564.047	562.209	1.838
34+480	564.017	562.233	1.785
34+500	563.987	562.256	1.731
34+520	563.958	562.219	1.739
34+540	563.928	562.181	1.747
34+560	563.898	562.134	1.764
34+580	563.868	562.080	1.788
34+600	563.838	562.025	1.813
34+620	563.809	562.117	1.692
34+640	563.791	562.208	1.582
34+660	563.789	562.300	1.489
34+680	563.803	562.392	1.411
34+700	563.833	562.484	1.349
34+720	563.879	562.592	1.286
34+740	563.929	562.701	1.228
34+760	563.979	562.657	1.322
34+780	564.030	562.461	1.569
34+800	564.080	562.264	1.816
34+820	564.131	562.296	1.833
34+840	564.181	562.331	1.851
34+860	564.232	562.369	1.862
34+880	564.282	562.414	1.868
34+900	564.333	562.458	1.874
34+920	564.383	562.636	1.747
34+940	564.433	562.814	1.619
34+960	564.484	562.893	1.591
34+980	564.534	562.873	1.661
35+000	564.585	562.853	1.732
35+020	564.635	563.071	1.564

NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 1.5 (CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

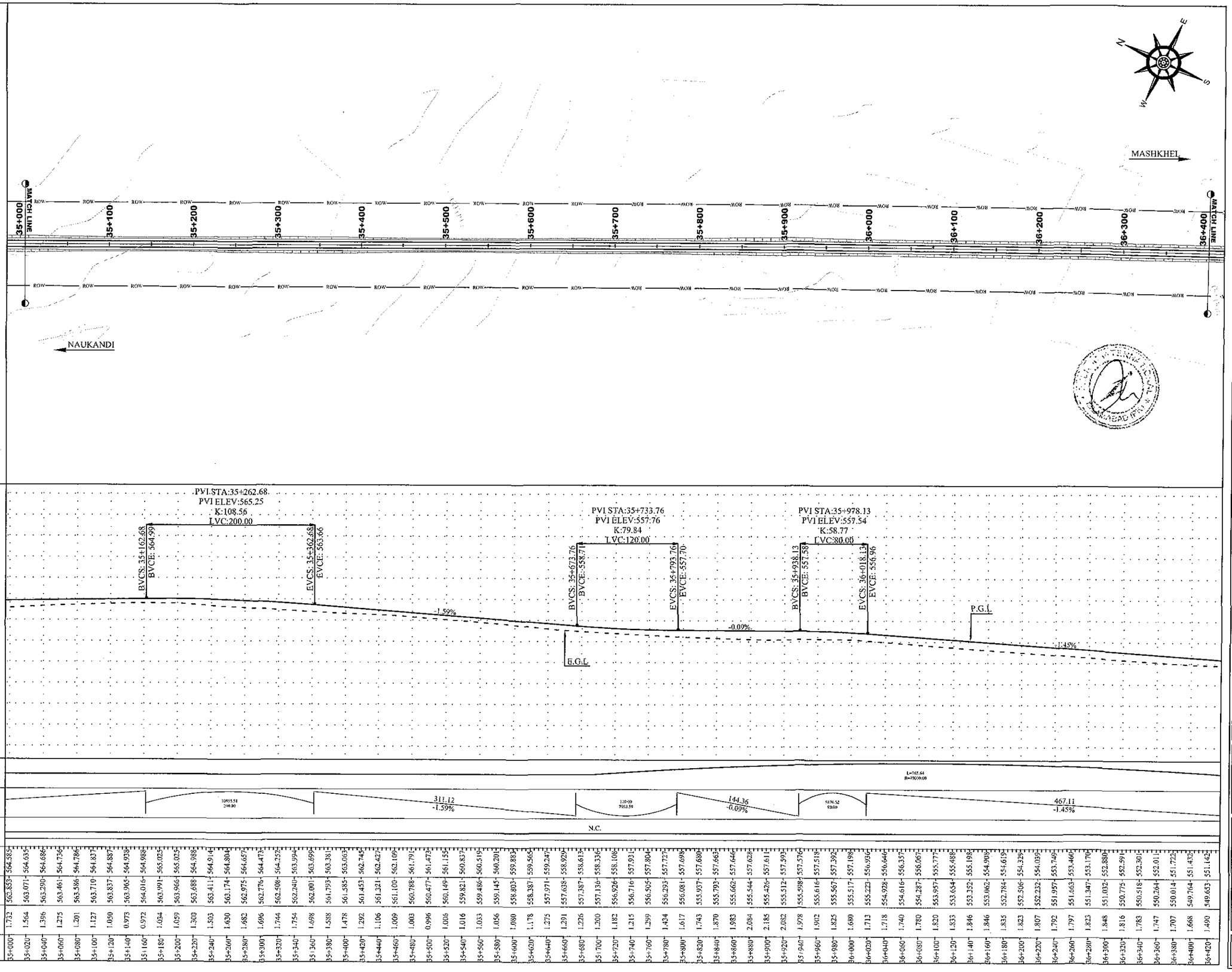
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

PLAN & PROFILE
KM 33+600 TO 35+000

DESIGN BY: AYESHA SHABBIR	SHEET NO: 25 TO 34
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/25



NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 1.5 (CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

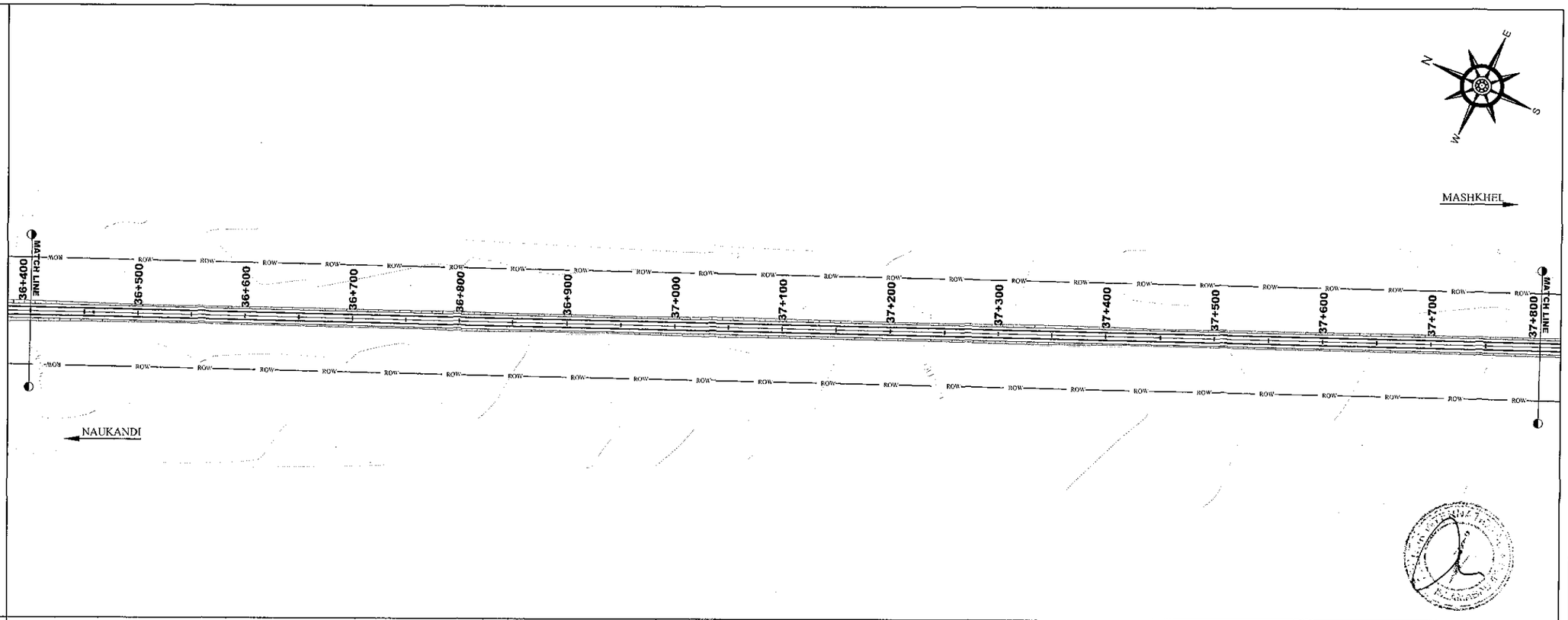
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

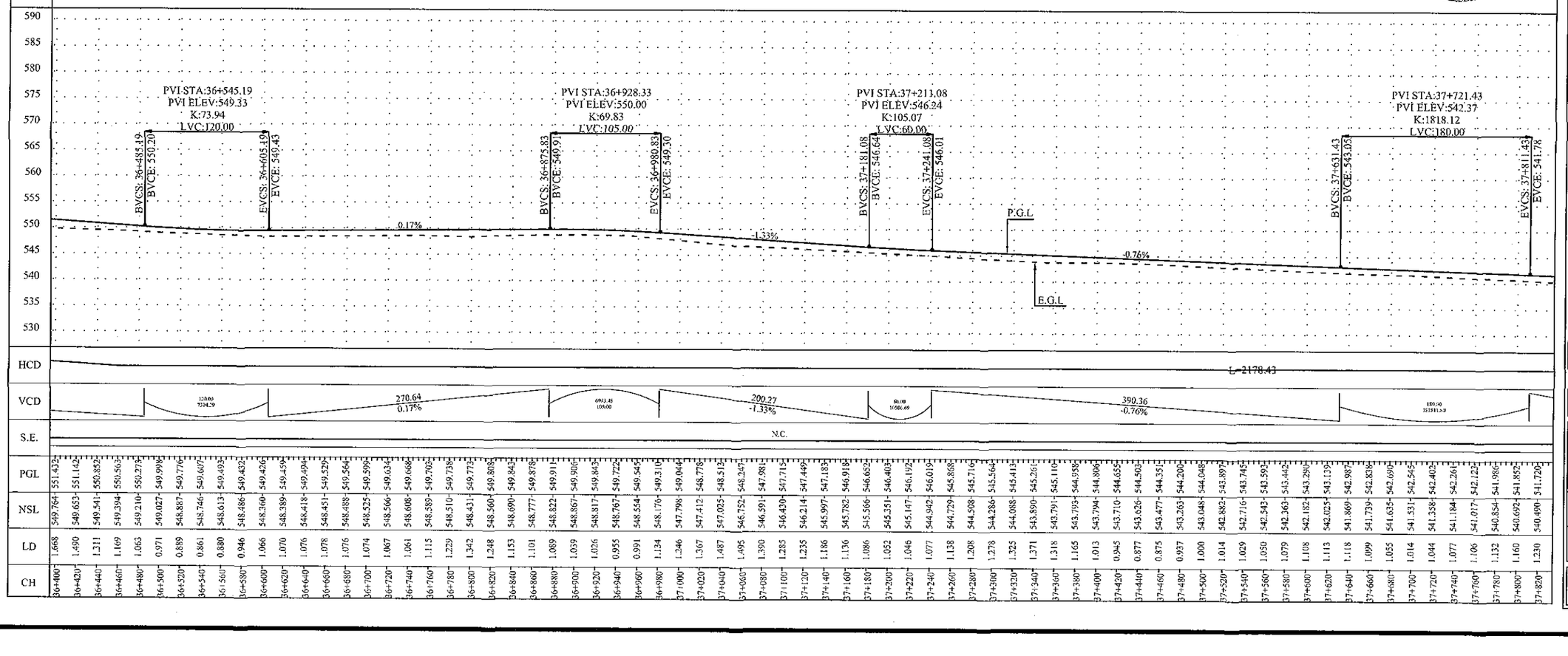
DRAWING TITLE:

PLAN & PROFILE
KM 35+000 TO 36+400

DESIGN BY: AYESHA SHABBIR	SHEET NO: 26 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/26





NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 / CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

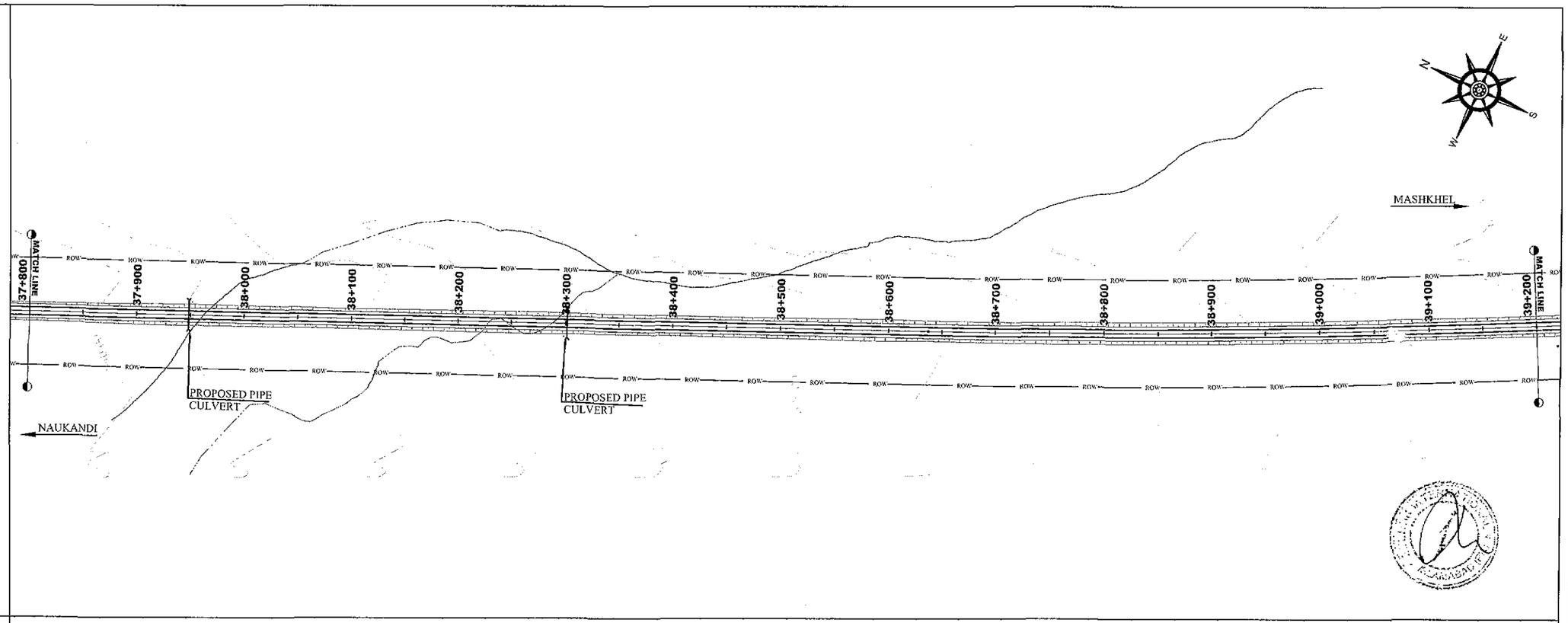
ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

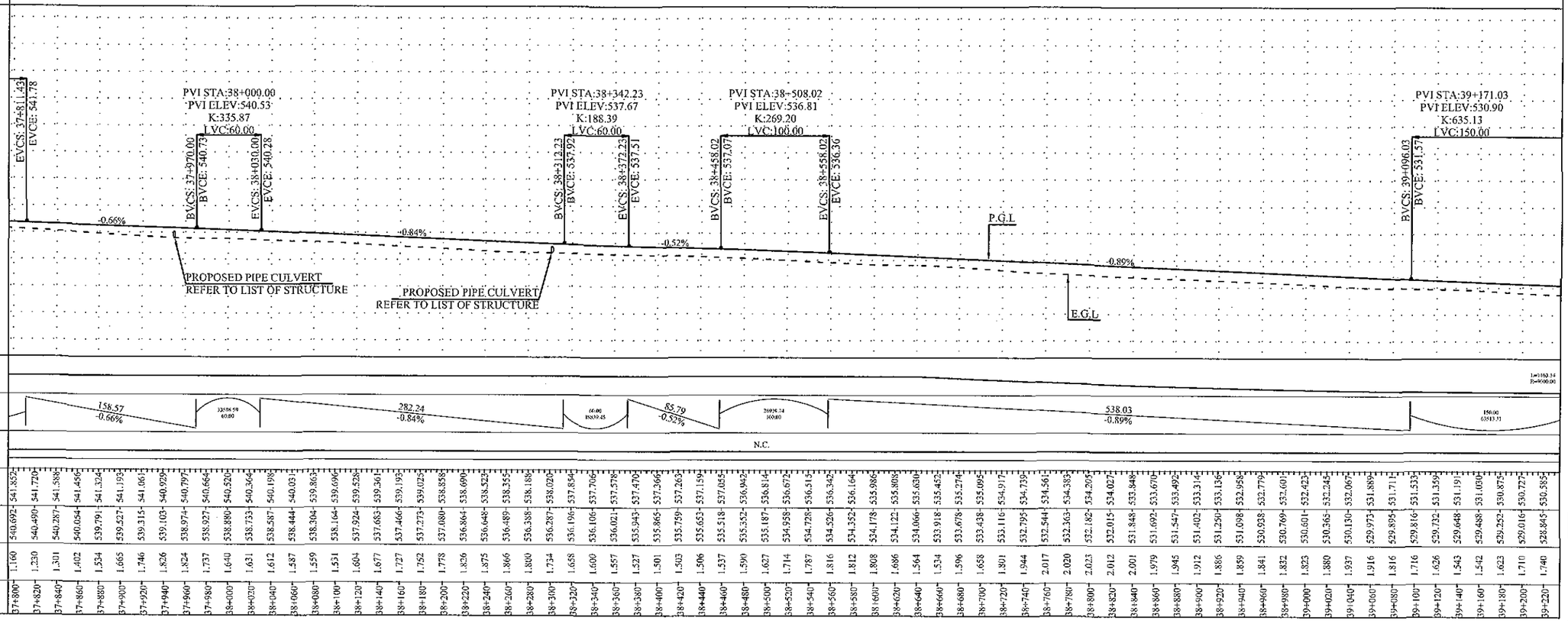
DRAWING TITLE:

PLAN & PROFILE
KM 36+400 TO 37+800

DESIGN BY: AYESHA SHABBIR	SHEET NO: 27 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/P/27





CH	PGL	NSL	LD
37+800	541.852	540.692	1.160
37+820	541.720	540.490	1.230
37+840	541.588	540.287	1.301
37+860	541.456	540.054	1.402
37+880	541.324	539.791	1.534
37+900	541.192	539.527	1.665
37+920	541.061	539.315	1.746
37+940	540.929	539.103	1.826
37+960	540.797	538.974	1.824
37+980	540.664	538.927	1.737
38+000	540.520	538.880	1.640
38+020	540.364	538.733	1.631
38+040	540.198	538.587	1.612
38+060	540.031	538.444	1.587
38+080	539.863	538.304	1.559
38+100	539.696	538.164	1.531
38+120	539.528	537.924	1.604
38+140	539.361	537.683	1.677
38+160	539.195	537.466	1.727
38+180	539.025	537.273	1.752
38+200	538.858	537.080	1.778
38+220	538.690	536.864	1.826
38+240	538.523	536.648	1.875
38+260	538.355	536.489	1.866
38+280	538.188	536.388	1.800
38+300	538.020	536.287	1.734
38+320	537.854	536.196	1.658
38+340	537.706	536.106	1.600
38+360	537.578	536.021	1.557
38+380	537.470	535.943	1.527
38+400	537.366	535.865	1.501
38+420	537.263	535.759	1.503
38+440	537.159	535.653	1.506
38+460	537.055	535.518	1.537
38+480	536.942	535.352	1.590
38+500	536.814	535.187	1.627
38+520	536.672	534.958	1.714
38+540	536.515	534.728	1.787
38+560	536.342	534.526	1.816
38+580	536.164	534.352	1.812
38+600	535.986	534.178	1.808
38+620	535.809	534.122	1.686
38+640	535.630	534.066	1.564
38+660	535.452	533.918	1.534
38+680	535.274	533.678	1.596
38+700	535.095	533.438	1.658
38+720	534.917	533.116	1.801
38+740	534.739	532.795	1.944
38+760	534.561	532.544	2.017
38+780	534.383	532.363	2.020
38+800	534.205	532.182	2.023
38+820	534.027	532.015	2.012
38+840	533.848	531.848	2.001
38+860	533.670	531.692	1.979
38+880	533.492	531.547	1.945
38+900	533.314	531.402	1.912
38+920	533.136	531.250	1.886
38+940	532.958	531.098	1.859
38+960	532.779	530.938	1.841
38+980	532.601	530.769	1.832
39+000	532.423	530.601	1.823
39+020	532.245	530.365	1.880
39+040	532.067	530.130	1.937
39+060	531.880	529.973	1.916
39+080	531.711	529.895	1.816
39+100	531.535	529.816	1.716
39+120	531.359	529.732	1.626
39+140	531.191	529.648	1.543
39+160	531.030	529.488	1.542
39+180	530.875	529.252	1.623
39+200	530.725	529.016	1.710
39+220	530.585	528.845	1.740

NOTES

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LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

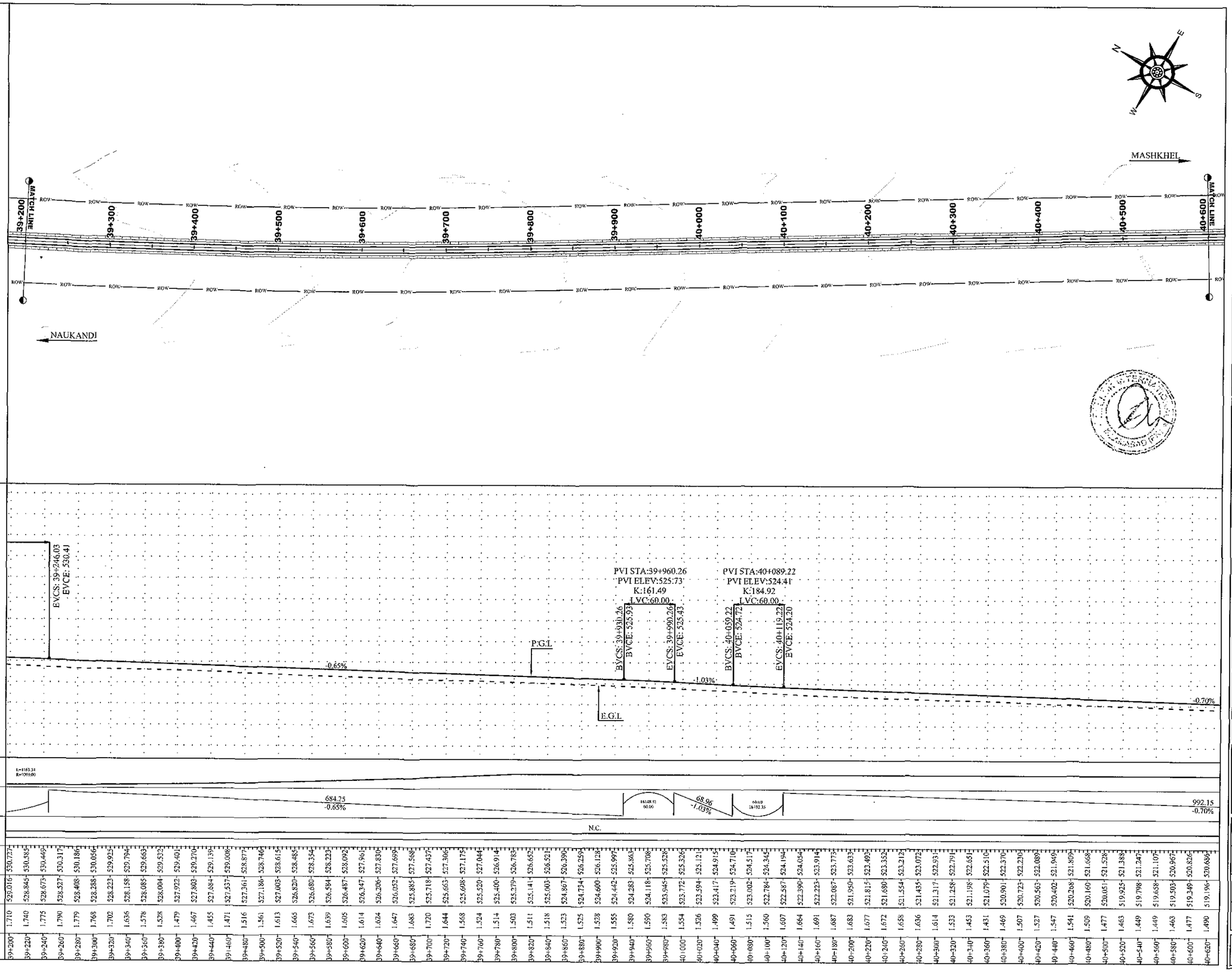
DRAWING TITLE:

PLAN & PROFILE
KM 37+800 TO 39+200

DESIGN BY: AYESHA SHABBIR	SHEET NO: 28 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/28



NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 1.5 (CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

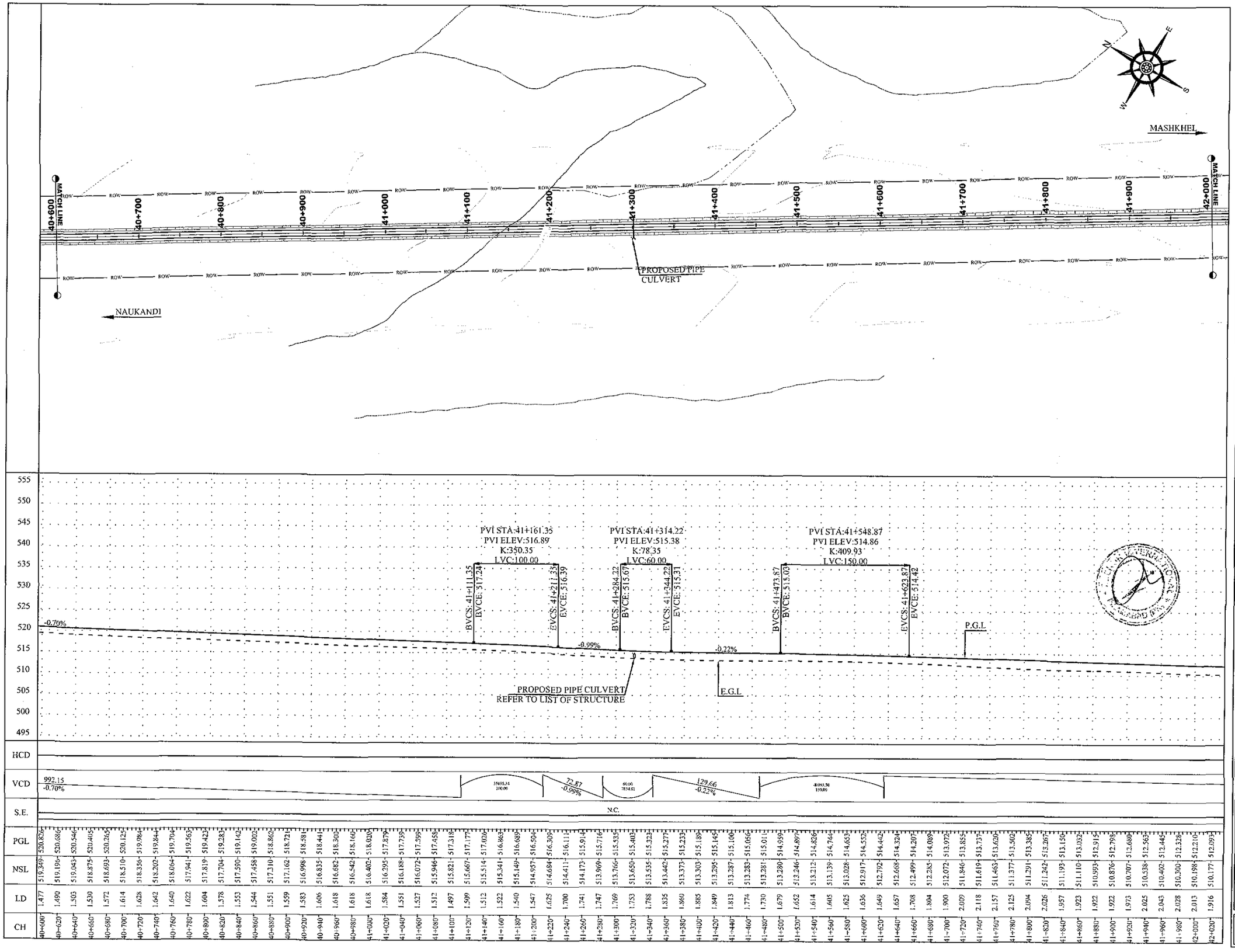
DRAWING TITLE:

PLAN & PROFILE
KM 39+200 TO 40+600

DESIGN BY: AYESHA SHABBIR	SHEET NO: 29 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV. 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/29

CH	LD	NSL	PGL
39+200	1.710	529.016	530.727
39+220	1.740	528.945	530.585
39+240	1.775	528.673	530.449
39+260	1.790	528.527	530.317
39+280	1.779	528.408	530.186
39+300	1.768	528.288	530.056
39+320	1.702	528.223	529.925
39+340	1.636	528.158	529.794
39+360	1.578	528.085	529.663
39+380	1.528	528.004	529.532
39+400	1.479	527.922	529.401
39+420	1.467	527.803	529.270
39+440	1.455	527.684	529.139
39+460	1.471	527.537	529.008
39+480	1.516	527.361	528.877
39+500	1.561	527.186	528.746
39+520	1.613	527.003	528.615
39+540	1.665	526.820	528.485
39+560	1.673	526.682	528.354
39+580	1.639	526.584	528.223
39+600	1.605	526.487	528.092
39+620	1.614	526.347	527.961
39+640	1.624	526.206	527.830
39+660	1.647	526.052	527.699
39+680	1.683	525.885	527.568
39+700	1.720	525.718	527.437
39+720	1.644	525.663	527.306
39+740	1.568	525.608	527.175
39+760	1.524	525.520	527.044
39+780	1.514	525.400	526.914
39+800	1.503	525.279	526.783
39+820	1.511	525.141	526.652
39+840	1.518	525.003	526.521
39+860	1.523	524.867	526.390
39+880	1.525	524.734	526.259
39+900	1.528	524.600	526.128
39+920	1.555	524.442	525.997
39+940	1.580	524.283	525.863
39+960	1.590	524.118	525.708
39+980	1.583	523.945	525.529
40+000	1.554	523.772	525.326
40+020	1.526	523.594	525.121
40+040	1.499	523.417	524.915
40+060	1.491	523.219	524.710
40+080	1.515	523.002	524.517
40+100	1.560	522.784	524.345
40+120	1.607	522.587	524.194
40+140	1.664	522.390	524.054
40+160	1.691	522.223	523.914
40+180	1.687	522.087	523.773
40+200	1.683	521.950	523.633
40+220	1.677	521.815	523.493
40+240	1.672	521.680	523.352
40+260	1.658	521.554	523.212
40+280	1.636	521.435	523.072
40+300	1.614	521.317	522.931
40+320	1.533	521.258	522.791
40+340	1.453	521.198	522.651
40+360	1.431	521.079	522.510
40+380	1.469	520.901	522.370
40+400	1.507	520.723	522.230
40+420	1.527	520.563	522.089
40+440	1.547	520.402	521.949
40+460	1.541	520.268	521.809
40+480	1.509	520.160	521.668
40+500	1.477	520.051	521.528
40+520	1.463	519.925	521.388
40+540	1.449	519.798	521.247
40+560	1.449	519.658	521.107
40+580	1.463	519.503	520.967
40+600	1.477	519.349	520.826
40+620	1.490	519.196	520.686



CH	LD	NSL	PGL
40+600	1.477	519.349	520.826
40+620	1.490	519.196	520.686
40+640	1.503	519.043	520.546
40+660	1.530	518.875	520.405
40+680	1.572	518.693	520.265
40+700	1.614	518.510	520.125
40+720	1.628	518.356	519.984
40+740	1.642	518.202	519.844
40+760	1.640	518.064	519.704
40+780	1.622	517.941	519.565
40+800	1.604	517.819	519.423
40+820	1.578	517.704	519.283
40+840	1.553	517.590	519.142
40+860	1.544	517.458	519.002
40+880	1.551	517.310	518.862
40+900	1.559	517.162	518.721
40+920	1.583	516.998	518.581
40+940	1.606	516.835	518.441
40+960	1.618	516.682	518.300
40+980	1.618	516.542	518.160
41+000	1.618	516.402	518.020
41+020	1.584	516.295	517.879
41+040	1.551	516.188	517.739
41+060	1.527	516.072	517.599
41+080	1.512	515.946	517.458
41+100	1.497	515.821	517.318
41+120	1.509	515.667	517.177
41+140	1.512	515.514	517.026
41+160	1.522	515.341	516.863
41+180	1.540	515.149	516.689
41+200	1.547	514.957	516.504
41+220	1.625	514.684	516.309
41+240	1.700	514.411	516.111
41+260	1.741	514.173	515.914
41+280	1.747	513.969	515.716
41+300	1.769	513.766	515.535
41+320	1.753	513.650	515.403
41+340	1.788	513.535	515.323
41+360	1.835	513.442	515.277
41+380	1.860	513.373	515.233
41+400	1.885	513.303	515.189
41+420	1.849	513.295	515.145
41+440	1.813	513.287	515.100
41+460	1.774	513.283	515.056
41+480	1.730	513.281	515.011
41+500	1.679	513.280	514.959
41+520	1.652	513.246	514.897
41+540	1.614	513.212	514.826
41+560	1.605	513.139	514.744
41+580	1.625	513.028	514.653
41+600	1.636	512.917	514.552
41+620	1.649	512.792	514.442
41+640	1.657	512.668	514.324
41+660	1.708	512.499	514.207
41+680	1.804	512.285	514.089
41+700	1.900	512.072	513.972
41+720	2.009	511.846	513.855
41+740	2.118	511.619	513.737
41+760	2.157	511.463	513.620
41+780	2.125	511.377	513.502
41+800	2.094	511.291	513.385
41+820	2.026	511.242	513.267
41+840	1.957	511.193	513.150
41+860	1.923	511.110	513.032
41+880	1.922	510.993	512.915
41+900	1.922	510.876	512.798
41+920	1.973	510.707	512.680
41+940	2.025	510.538	512.563
41+960	2.043	510.402	512.445
41+980	2.028	510.300	512.328
42+000	2.013	510.198	512.210
42+020	1.916	510.177	512.093

NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 1.5 (CELL - W X H)

ABBREVIATIONS

FGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEBRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
1-B Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

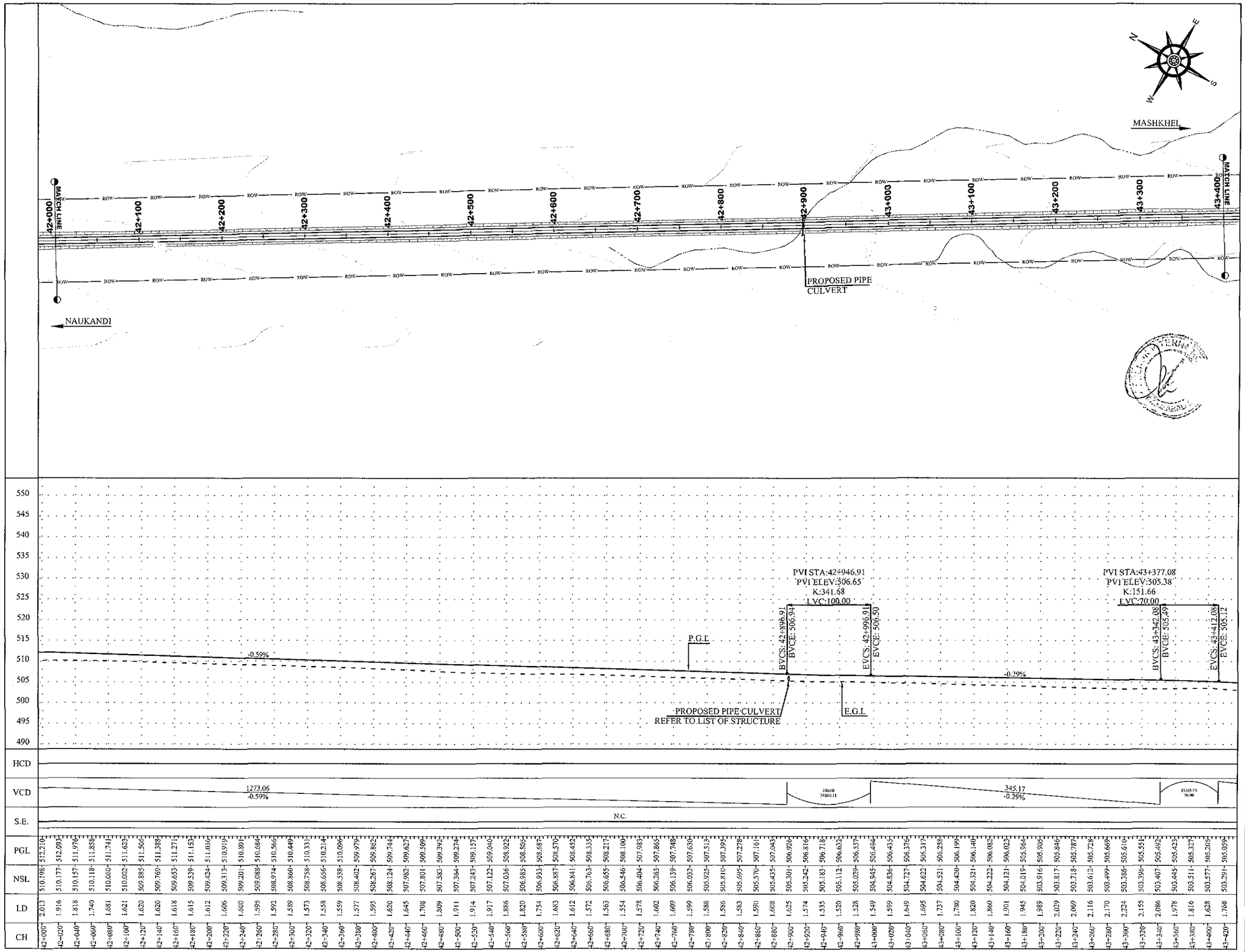
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

PLAN & PROFILE
KM 40+600 TO 42+000

DESIGN BY: AYESHA SHABBIR	SHEET NO: 30 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/30



CH	PGL	NSL	LD
42+000	512.210	510.198	2.013
42+020	512.093	510.177	1.916
42+040	511.976	510.157	1.818
42+060	511.858	510.118	1.740
42+080	511.741	510.060	1.681
42+100	511.623	510.002	1.621
42+120	511.506	509.885	1.620
42+140	511.389	509.769	1.620
42+160	511.271	509.653	1.618
42+180	511.152	509.539	1.615
42+200	511.036	509.424	1.612
42+220	510.919	509.313	1.606
42+240	510.801	509.201	1.600
42+260	510.684	509.088	1.595
42+280	510.566	508.974	1.592
42+300	510.449	508.860	1.589
42+320	510.331	508.758	1.573
42+340	510.214	508.656	1.558
42+360	510.096	508.538	1.559
42+380	509.979	508.402	1.577
42+400	509.862	508.267	1.595
42+420	509.744	508.124	1.620
42+440	509.627	507.982	1.645
42+460	509.509	507.801	1.708
42+480	509.392	507.583	1.809
42+500	509.274	507.364	1.911
42+520	509.157	507.243	1.914
42+540	509.040	507.122	1.917
42+560	508.922	507.036	1.886
42+580	508.805	506.985	1.820
42+600	508.687	506.933	1.754
42+620	508.570	506.887	1.683
42+640	508.452	506.841	1.612
42+660	508.335	506.763	1.572
42+680	508.217	506.655	1.563
42+700	508.100	506.546	1.554
42+720	507.983	506.404	1.578
42+740	507.865	506.263	1.602
42+760	507.748	506.139	1.609
42+780	507.630	506.032	1.599
42+800	507.513	505.925	1.588
42+820	507.395	505.810	1.586
42+840	507.278	505.695	1.583
42+860	507.161	505.570	1.590
42+880	507.043	505.435	1.608
42+900	506.926	505.301	1.625
42+920	506.816	505.242	1.574
42+940	506.718	505.183	1.535
42+960	506.632	505.112	1.520
42+980	506.557	505.029	1.528
43+000	506.494	504.945	1.549
43+020	506.435	504.836	1.599
43+040	506.376	504.727	1.649
43+060	506.317	504.622	1.695
43+080	506.258	504.521	1.737
43+100	506.199	504.420	1.780
43+120	506.140	504.321	1.820
43+140	506.082	504.222	1.860
43+160	506.022	504.121	1.901
43+180	505.964	504.019	1.945
43+200	505.905	503.916	1.989
43+220	505.846	503.817	2.029
43+240	505.787	503.718	2.069
43+260	505.728	503.612	2.116
43+280	505.669	503.499	2.170
43+300	505.610	503.386	2.224
43+320	505.551	503.396	2.155
43+340	505.492	503.407	2.086
43+360	505.423	503.445	1.978
43+380	505.327	503.511	1.816
43+400	505.205	503.577	1.628
43+420	505.059	503.291	1.768

NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

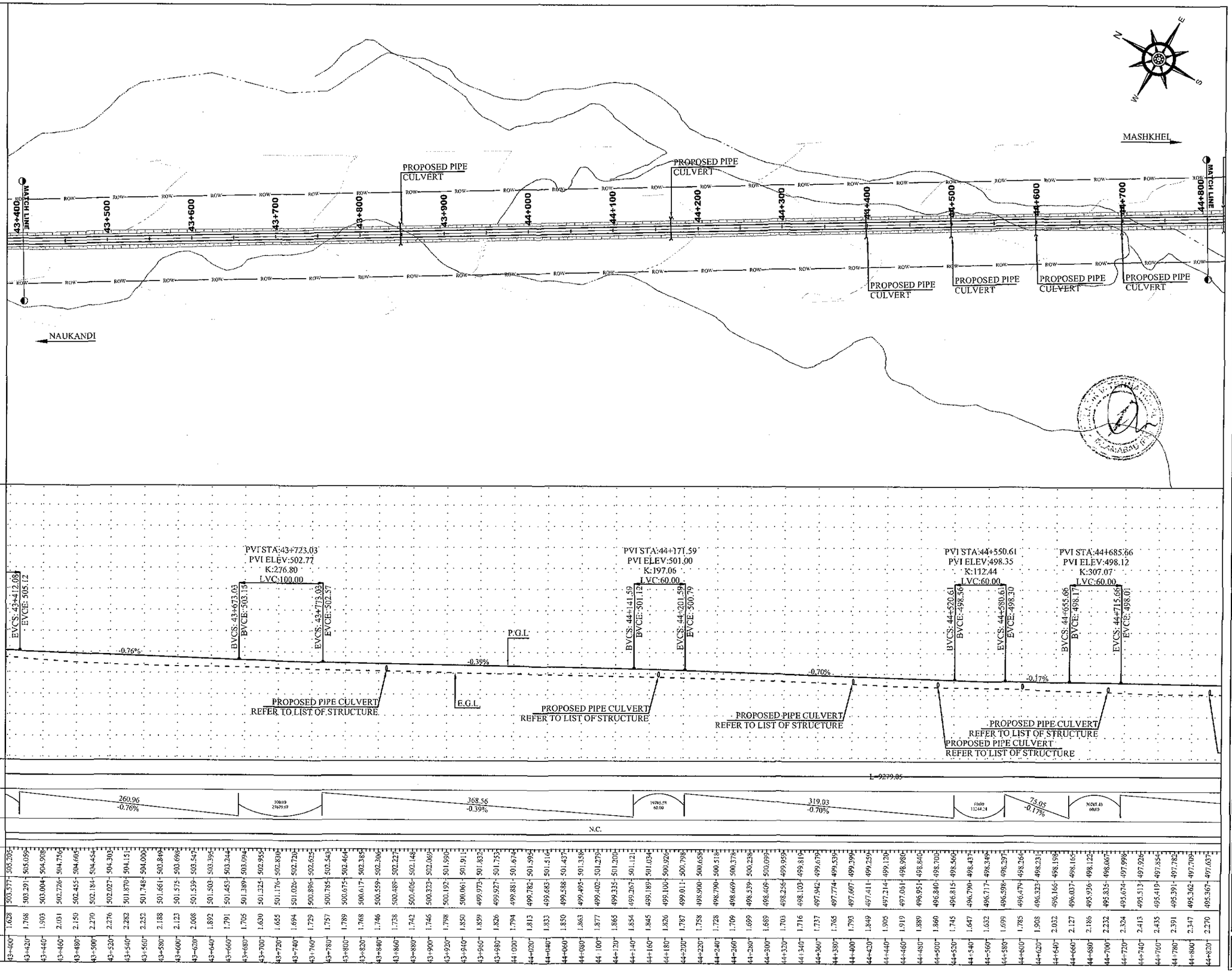
DRAWING TITLE:

PLAN & PROFILE
KM 42+000 TO 43+400

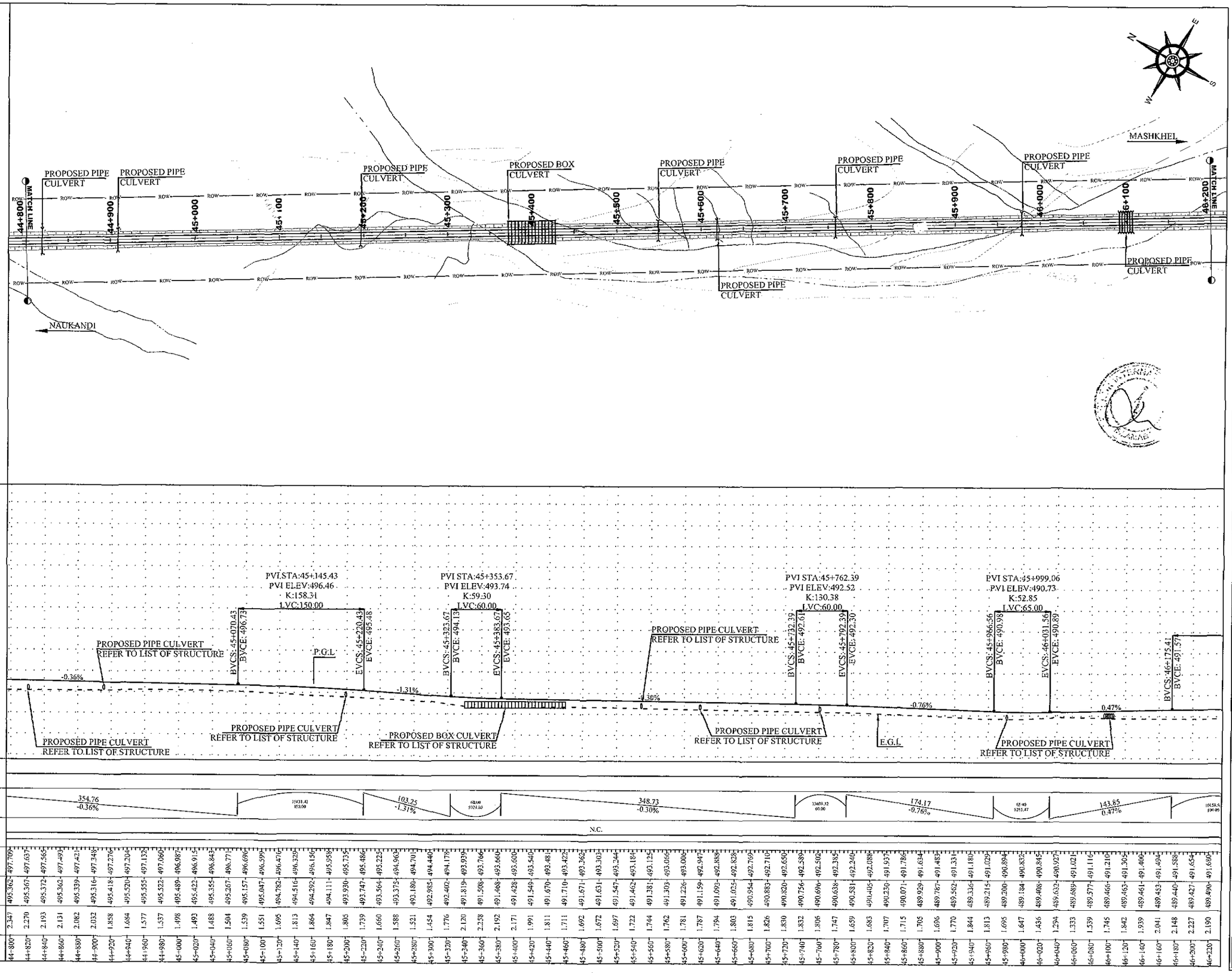
DESIGN BY: AYESHA SHABBIR	SHEET NO: 31 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV. 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

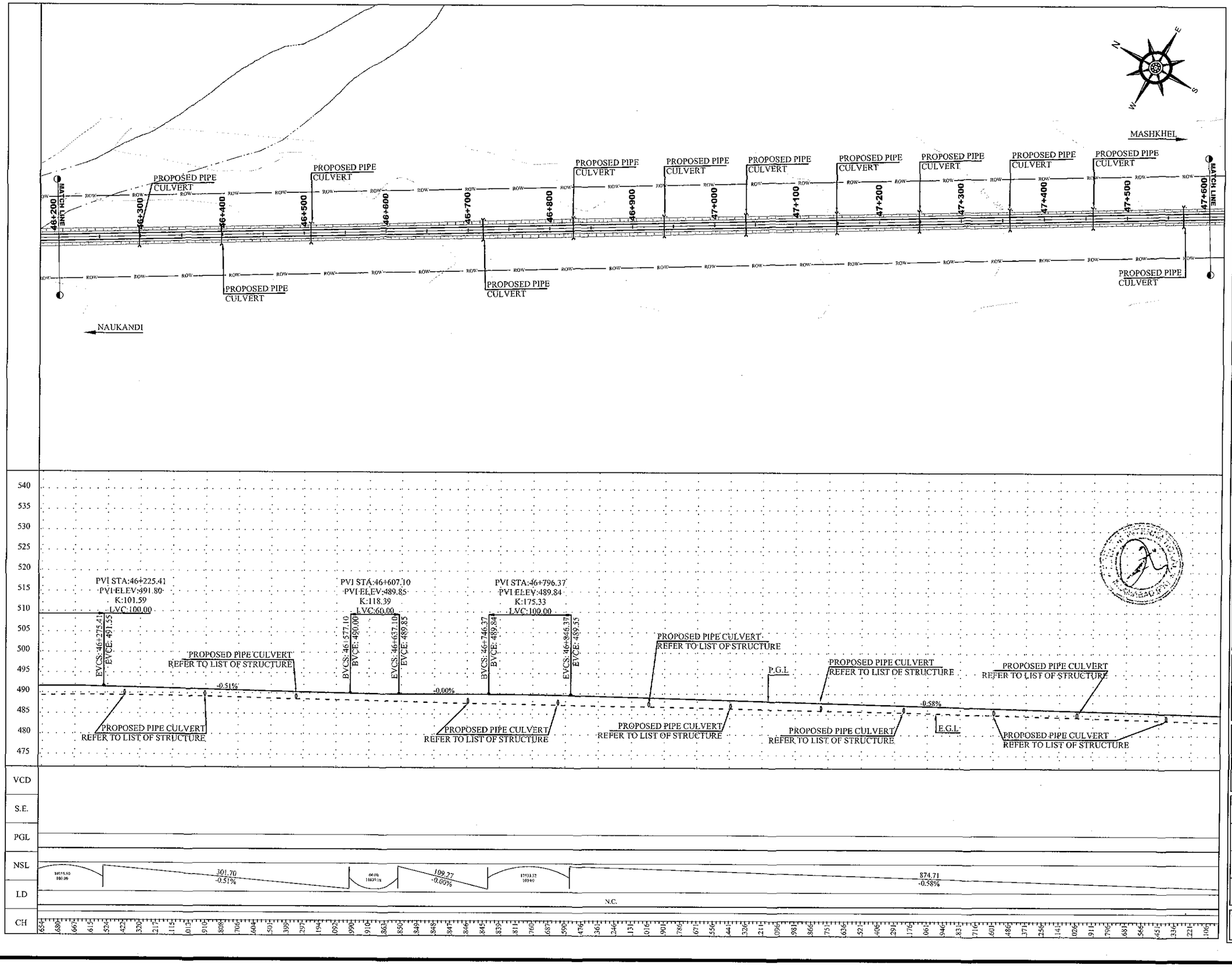
CAD FILE NAME:

ZI/KA/NK/P/31



| | 43+400 | 43+420 | 43+440 | 43+460 | 43+480 | 43+500 | 43+520 | 43+540 | 43+560 | 43+580 | 43+600 | 43+620 | 43+640 | 43+660 | 43+680 | 43+700 | 43+720 | 43+740 | 43+760 | 43+780 | 43+800 | 43+820 | 43+840 | 43+860 | 43+880 | 43+900 | 43+920 | 43+940 | 43+960 | 43+980 | 44+000 | 44+020 | 44+040 | 44+060 | 44+080 | 44+100 | 44+120 | 44+140 | 44+160 | 44+180 | 44+200 | 44+220 | 44+240 | 44+260 | 44+280 | 44+300 | 44+320 | 44+340 | 44+360 | 44+380 | 44+400 | 44+420 | 44+440 | 44+460 | 44+480 | 44+500 | 44+520 | 44+540 | 44+560 | 44+580 | 44+600 | 44+620 | 44+640 | 44+660 | 44+680 | 44+700 | 44+720 | 44+740 | 44+760 | 44+780 | 44+800 | 44+820 |
|---|---|---


PROPOSED PIPE CULVERT
PROPOSED PIPE CULVERT
PROPOSED PIPE CULVERT
PROPOSED BOX CULVERT
PROPOSED PIPE CULVERT
PROPOSED PIPE CULVERT
PROPOSED PIPE CULVERT
PROPOSED PIPE CULVERT
MATCH LINE
MATCH LINE
NAUKANDI
MASHKHEL
44+800
44+900
45+000
45+100
45+200
45+300
45+400
45+500
45+600
45+700
45+800
45+900
46+000
46+100
46+200
ROW
PROPOSED PIPE CULVERT
PROPOSED PIPE CULVERT
PROPOSED BOX CULVERT
PROPOSED PIPE CULVERT
PROPOSED PIPE CULVERT
PROPOSED PIPE CULVERT
PROPOSED PIPE



NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
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- PROPOSED BOX CULVERT (1 - 3.5 X 3.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
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NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
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HCD	HORIZONTAL CURVE DETAIL
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W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEFRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

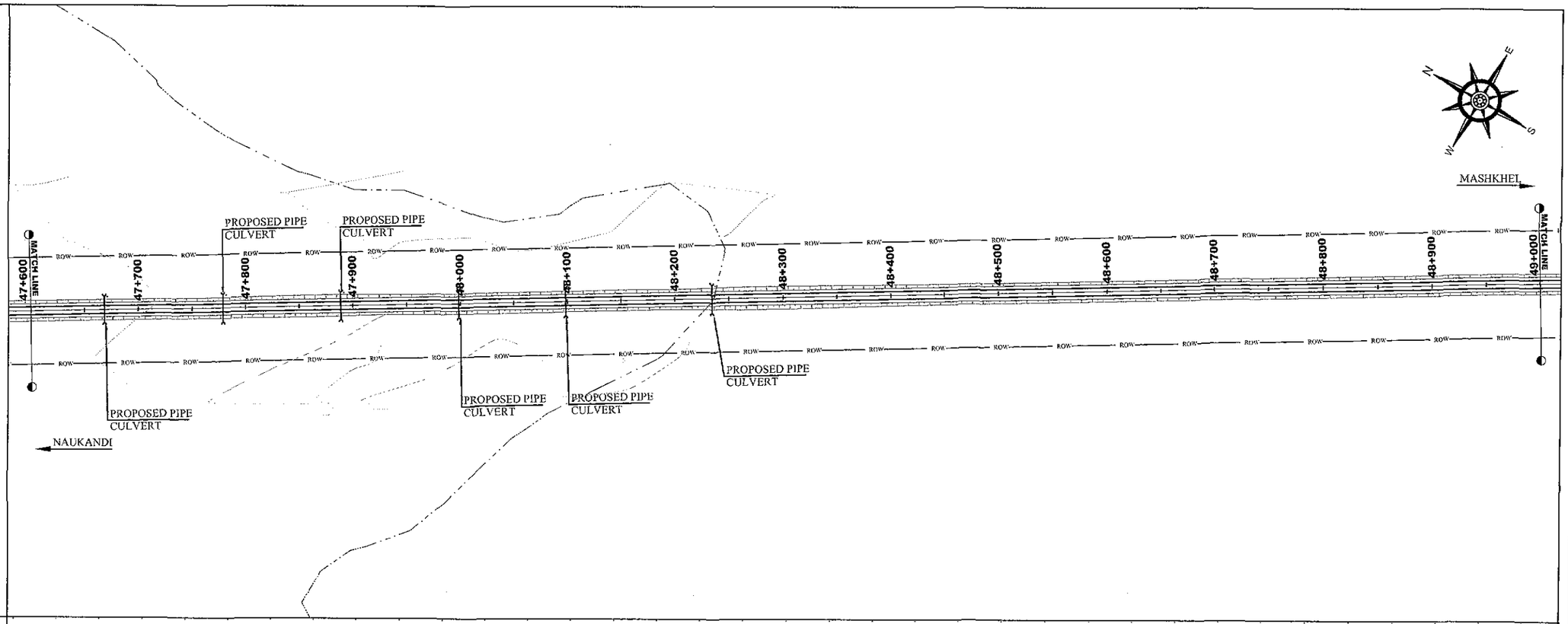
DRAWING TITLE:

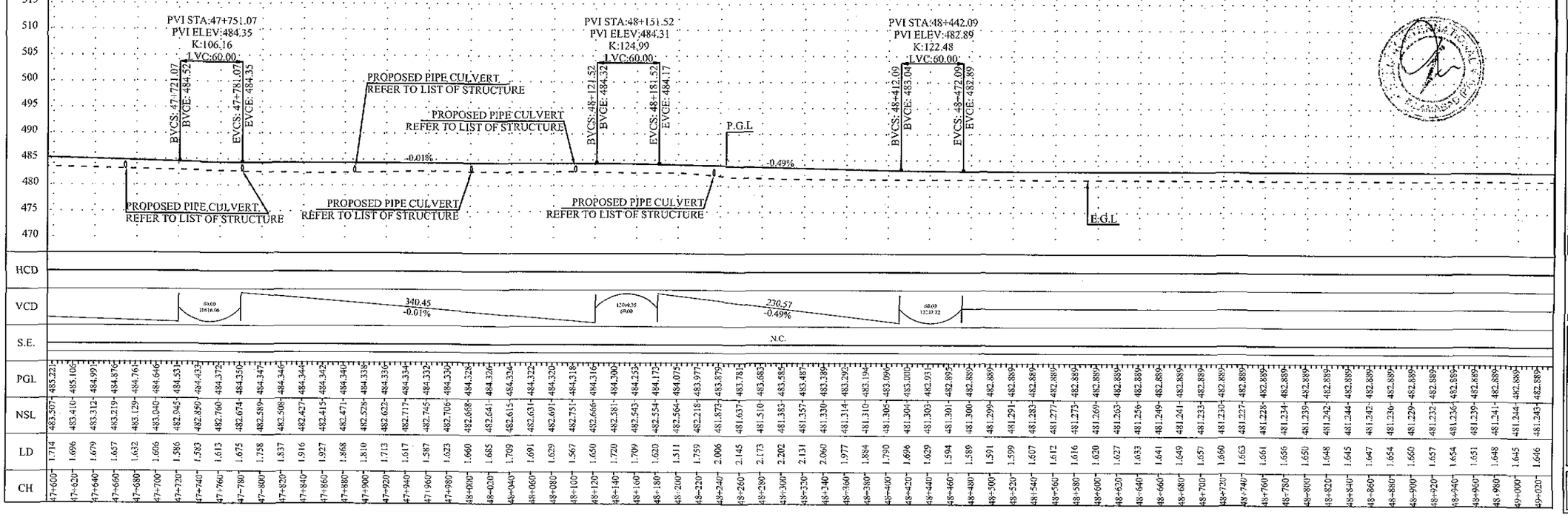
PLAN & PROFILE
KM 46+200 TO 47+600

DESIGN BY: AYESHA SHABBIR	SHEET NO: 34 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/34





CH	PGL	NSL	LD
47+600	485.221	483.507	1.714
47+620	485.105	483.410	1.696
47+640	484.991	483.312	1.679
47+660	484.876	483.219	1.657
47+680	484.761	483.129	1.632
47+700	484.646	483.040	1.606
47+720	484.531	482.945	1.586
47+740	484.432	482.850	1.583
47+760	484.372	482.760	1.613
47+780	484.350	482.674	1.675
47+800	484.347	482.589	1.758
47+820	484.346	482.508	1.837
47+840	484.344	482.427	1.916
47+860	484.342	482.415	1.927
47+880	484.340	482.471	1.868
47+900	484.338	482.528	1.810
47+920	484.336	482.622	1.713
47+940	484.334	482.717	1.617
47+960	484.332	482.745	1.587
47+980	484.330	482.706	1.623
48+000	484.328	482.668	1.660
48+020	484.326	482.641	1.685
48+040	484.324	482.615	1.709
48+060	484.322	482.631	1.691
48+080	484.320	482.691	1.629
48+100	484.318	482.751	1.567
48+120	484.316	482.666	1.650
48+140	484.300	482.581	1.720
48+160	484.253	482.543	1.709
48+180	484.173	482.554	1.620
48+200	484.075	482.564	1.511
48+220	483.977	482.218	1.759
48+240	483.870	481.873	2.006
48+260	483.781	481.637	2.145
48+280	483.683	481.510	2.173
48+300	483.586	481.383	2.202
48+320	483.487	481.357	2.131
48+340	483.389	481.330	2.060
48+360	483.290	481.314	1.977
48+380	483.194	481.310	1.884
48+400	483.096	481.305	1.790
48+420	483.000	481.304	1.696
48+440	482.901	481.303	1.629
48+460	482.895	481.301	1.594
48+480	482.889	481.300	1.589
48+500	482.889	481.299	1.591
48+520	482.889	481.291	1.599
48+540	482.889	481.283	1.607
48+560	482.889	481.277	1.612
48+580	482.889	481.273	1.616
48+600	482.889	481.269	1.620
48+620	482.889	481.263	1.627
48+640	482.889	481.256	1.633
48+660	482.889	481.249	1.641
48+680	482.889	481.241	1.649
48+700	482.889	481.233	1.657
48+720	482.889	481.230	1.660
48+740	482.889	481.227	1.663
48+760	482.889	481.228	1.661
48+780	482.889	481.234	1.656
48+800	482.889	481.239	1.650
48+820	482.889	481.242	1.648
48+840	482.889	481.244	1.645
48+860	482.889	481.242	1.647
48+880	482.889	481.236	1.654
48+900	482.889	481.229	1.660
48+920	482.889	481.232	1.657
48+940	482.889	481.236	1.654
48+960	482.889	481.239	1.651
48+980	482.889	481.241	1.648
49+000	482.889	481.244	1.645
49+020	482.889	481.243	1.646

NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

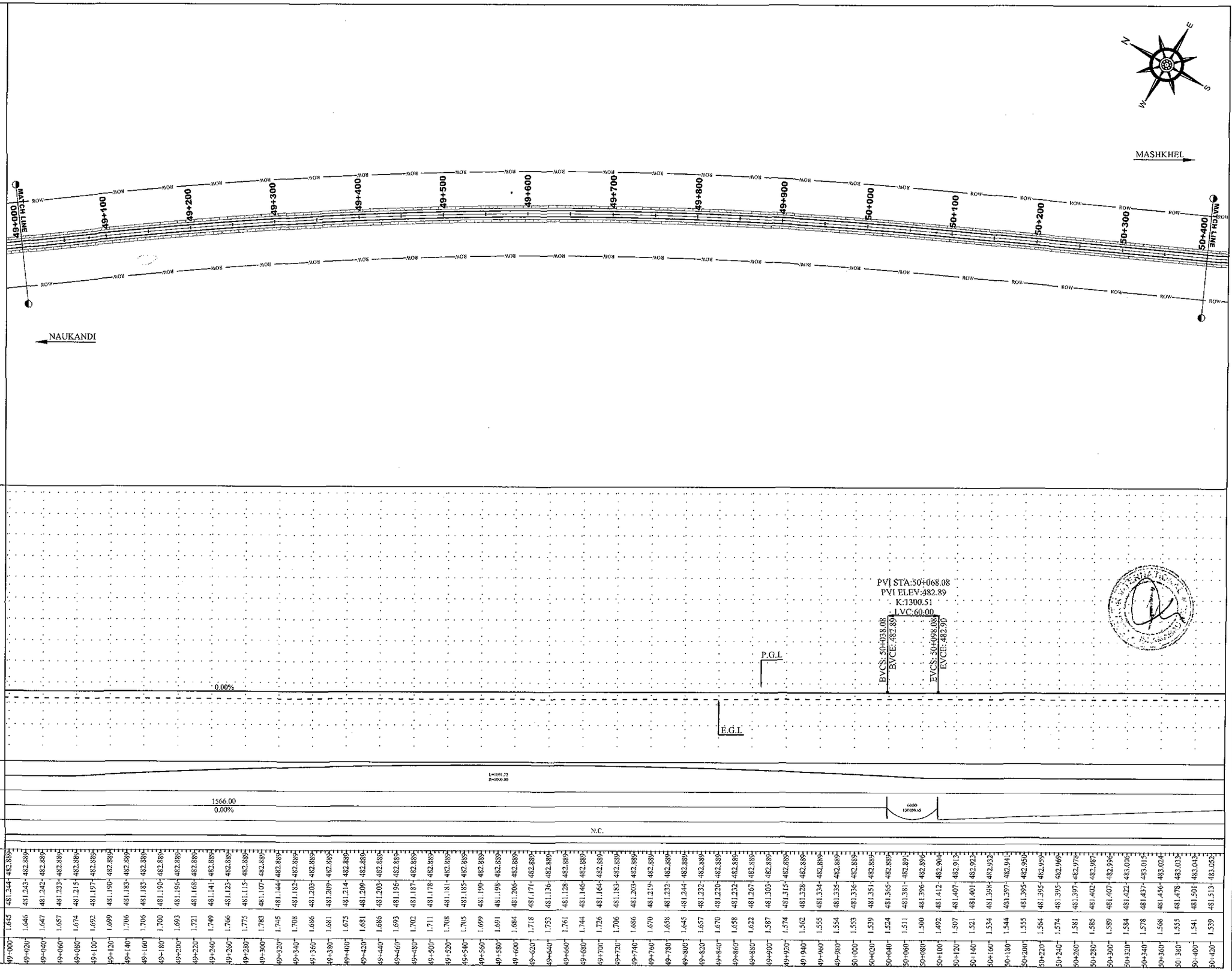
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

PLAN & PROFILE
KM 47+600 TO 49+000

DESIGN BY: AYESHA SHABBIR	SHEET NO: 35 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/P/35



NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
1-B Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

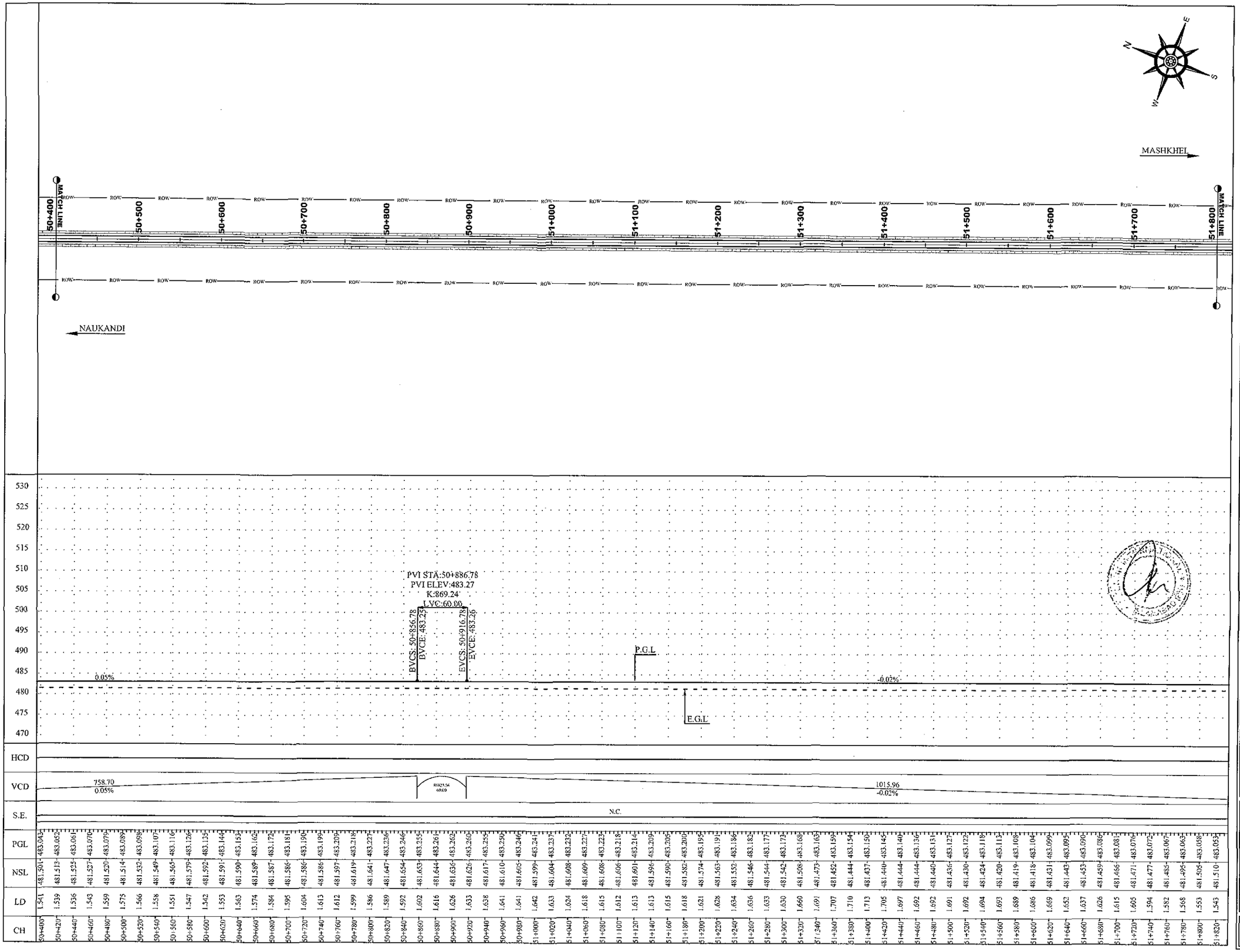
DRAWING TITLE:

PLAN & PROFILE
KM 49+000 TO 50+400

DESIGN BY: AYESHA SHABBIR	SHEET NO: 36 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/36



NOTES

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LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

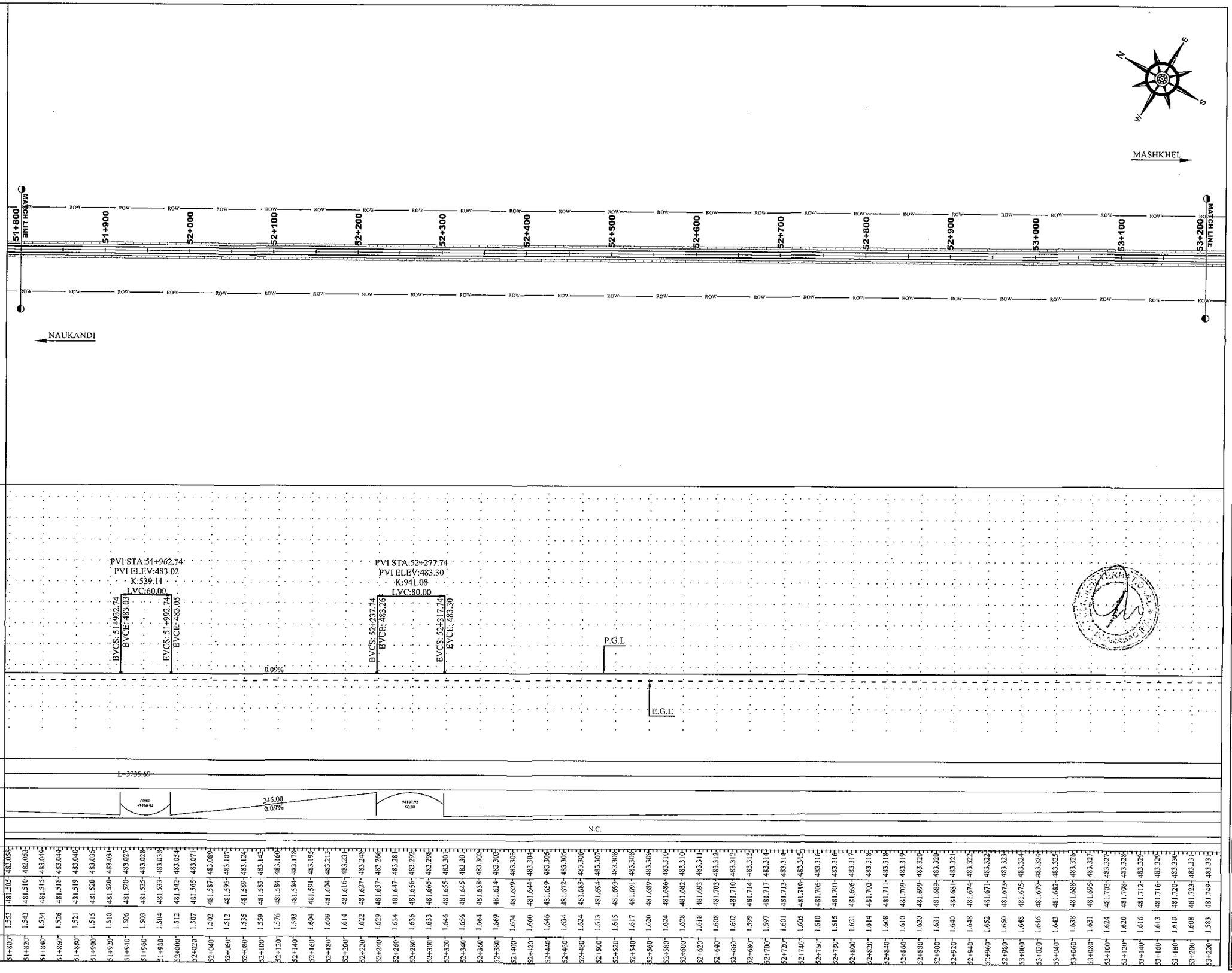
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

PLAN & PROFILE
KM 50+400 TO 51+800

DESIGN BY: AYESHA SHABBIR	SHEET NO: 37 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/37



NOTES

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LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 1.5 (CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
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EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

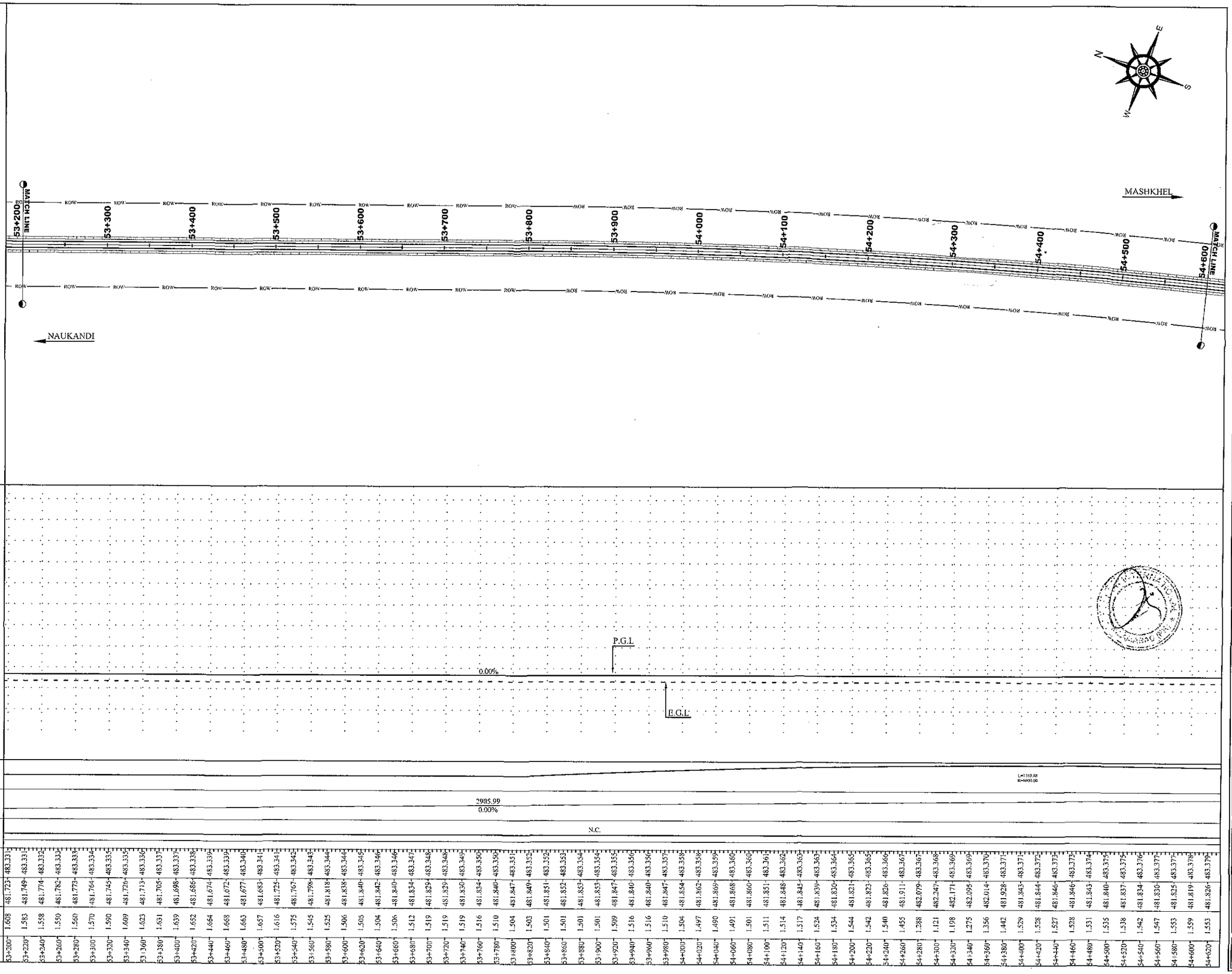
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

PLAN & PROFILE
KM 51+800 TO 53+200

DESIGN BY: AYESHA SHABBIR	SHEET NO: 38 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/38



NOTES

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LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 3.5 / CELL - W X H

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

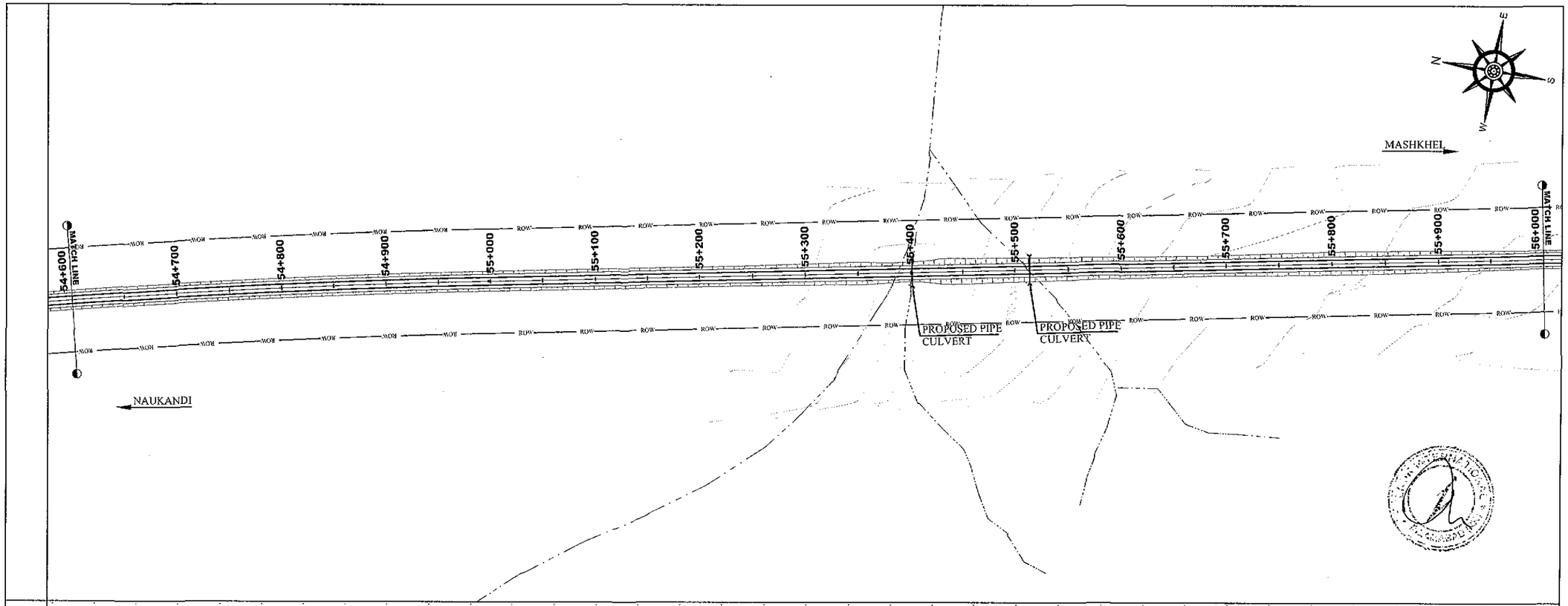
DRAWING TITLE:

PLAN & PROFILE
KM 53+200 TO 54+600

DESIGN BY: AYESHA SHABBIR	SHEET NO: 39 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/39

CH	PGL	NSL	LD
53+200	483.331	481.723	1.608
53+220	483.331	481.749	1.583
53+240	483.332	481.774	1.558
53+260	483.332	481.782	1.550
53+280	483.333	481.773	1.560
53+300	483.334	481.764	1.570
53+320	483.335	481.745	1.590
53+340	483.336	481.726	1.609
53+360	483.336	481.713	1.623
53+380	483.337	481.705	1.631
53+400	483.337	481.698	1.639
53+420	483.338	481.686	1.652
53+440	483.339	481.674	1.664
53+460	483.339	481.672	1.668
53+480	483.340	481.677	1.662
53+500	483.341	481.683	1.657
53+520	483.341	481.725	1.616
53+540	483.342	481.767	1.575
53+560	483.343	481.798	1.545
53+580	483.344	481.819	1.525
53+600	483.344	481.838	1.506
53+620	483.345	481.840	1.505
53+640	483.346	481.842	1.504
53+660	483.346	481.840	1.506
53+681	483.347	481.834	1.512
53+701	483.348	481.829	1.519
53+720	483.348	481.829	1.519
53+740	483.349	481.830	1.519
53+760	483.350	481.834	1.516
53+780	483.350	481.840	1.510
53+800	483.351	481.847	1.504
53+820	483.352	481.849	1.503
53+840	483.352	481.851	1.501
53+860	483.353	481.852	1.501
53+880	483.354	481.853	1.501
53+900	483.354	481.853	1.501
53+920	483.355	481.847	1.509
53+940	483.356	481.840	1.516
53+960	483.356	481.840	1.516
53+980	483.357	481.847	1.510
54+000	483.358	481.854	1.504
54+020	483.358	481.862	1.497
54+040	483.359	481.869	1.490
54+060	483.360	481.868	1.491
54+080	483.360	481.860	1.501
54+100	483.361	481.851	1.511
54+120	483.362	481.848	1.514
54+140	483.363	481.845	1.517
54+160	483.363	481.839	1.524
54+180	483.364	481.830	1.534
54+200	483.365	481.821	1.544
54+220	483.366	481.823	1.542
54+240	483.366	481.826	1.540
54+260	483.367	481.911	1.455
54+280	483.367	482.079	1.288
54+300	483.368	482.247	1.121
54+320	483.369	482.171	1.198
54+340	483.369	482.095	1.275
54+360	483.370	482.014	1.356
54+380	483.371	481.928	1.442
54+400	483.371	481.843	1.529
54+420	483.372	481.844	1.528
54+440	483.373	481.846	1.527
54+460	483.373	481.846	1.528
54+480	483.374	481.843	1.531
54+500	483.375	481.840	1.535
54+520	483.375	481.837	1.538
54+540	483.376	481.834	1.542
54+560	483.377	481.830	1.547
54+580	483.377	481.825	1.553
54+600	483.378	481.819	1.559
54+620	483.379	481.826	1.553



CH	LD	NSL	PGL
54+600	1.559	481.819	483.378
54+620	1.553	481.826	483.379
54+640	1.547	481.832	483.379
54+660	1.543	481.837	483.380
54+680	1.541	481.840	483.381
54+700	1.538	481.843	483.382
54+720	1.548	481.834	483.382
54+740	1.558	481.825	483.383
54+760	1.562	481.821	483.384
54+780	1.562	481.822	483.384
54+800	1.562	481.822	483.385
54+820	1.559	481.827	483.386
54+840	1.556	481.830	483.386
54+860	1.566	481.821	483.387
54+880	1.589	481.798	483.388
54+900	1.613	481.776	483.389
54+920	1.613	481.776	483.389
54+940	1.614	481.776	483.390
54+960	1.620	481.770	483.390
54+980	1.631	481.760	483.391
55+000	1.643	481.749	483.392
55+020	1.652	481.740	483.393
55+040	1.662	481.731	483.393
55+060	1.668	481.726	483.394
55+080	1.669	481.726	483.394
55+100	1.670	481.725	483.395
55+120	1.661	481.734	483.396
55+140	1.653	481.744	483.396
55+160	1.643	481.755	483.397
55+180	1.631	481.767	483.398
55+200	1.619	481.779	483.399
55+220	1.613	481.786	483.399
55+240	1.629	481.793	483.422
55+260	1.688	481.824	483.511
55+280	1.789	481.878	483.668
55+300	1.958	481.933	483.891
55+320	2.050	482.132	484.183
55+340	2.206	482.332	484.538
55+360	2.154	482.754	484.909
55+380	1.880	483.400	485.280
55+400	1.606	484.045	485.651
55+420	2.163	483.859	486.022
55+440	2.720	483.673	486.395
55+460	2.928	483.835	486.764
55+480	2.788	484.346	487.135
55+500	2.648	484.858	487.506
55+520	2.519	485.357	487.877
55+540	2.391	485.857	488.248
55+560	2.258	486.361	488.619
55+580	2.122	486.868	488.990
55+600	1.986	487.375	489.361
55+620	1.917	487.814	489.731
55+640	1.831	488.252	490.084
55+660	1.776	488.637	490.413
55+680	1.751	488.967	490.718
55+700	1.701	489.297	490.999
55+720	1.852	489.404	491.256
55+740	1.979	489.511	491.489
55+760	2.101	489.598	491.699
55+780	2.218	489.666	491.884
55+800	2.312	489.734	492.044
55+820	2.319	489.865	492.181
55+840	2.302	489.995	492.298
55+860	2.224	490.163	492.388
55+880	2.085	490.369	492.456
55+900	1.922	490.574	492.496
55+920	1.753	490.762	492.514
55+940	1.560	490.949	492.509
55+960	1.411	491.069	492.479
55+980	1.305	491.122	492.426
56+000	1.174	491.175	492.349
56+020	1.207	491.041	492.248

NOTES

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LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
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EVCS	ENDING OF VERTICAL STATION
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CH	CHAINAGE
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HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph. 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

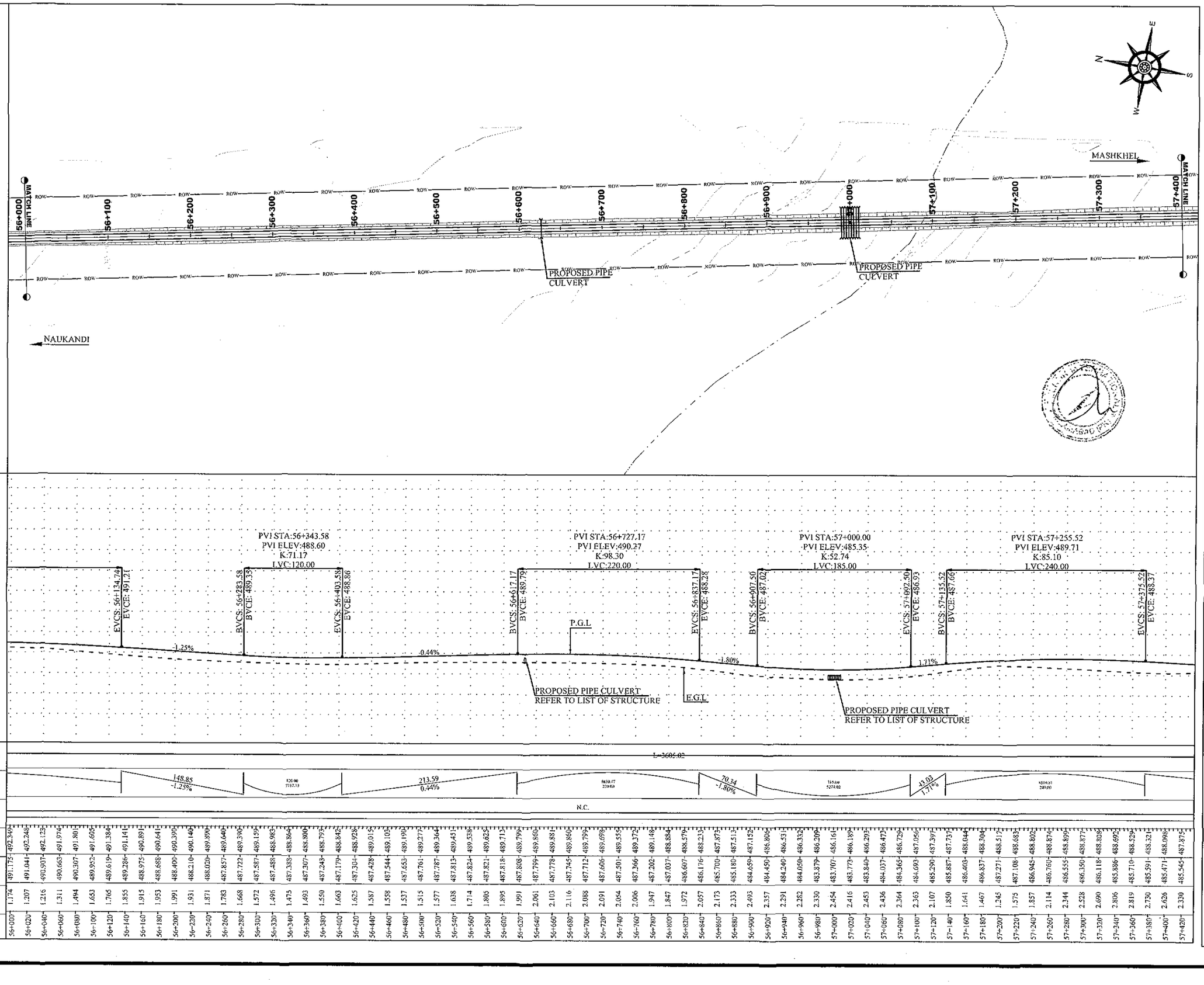
DRAWING TITLE:

PLAN & PROFILE
KM 54+600 TO 56+000

DESIGN BY: AYESHA SHABBIR	SHEET NO: 40 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/40



NOTES

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LEGEND

- CENTER LINE
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ABBREVIATIONS

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REV.	REVISION/ISSUE	DATE
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00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

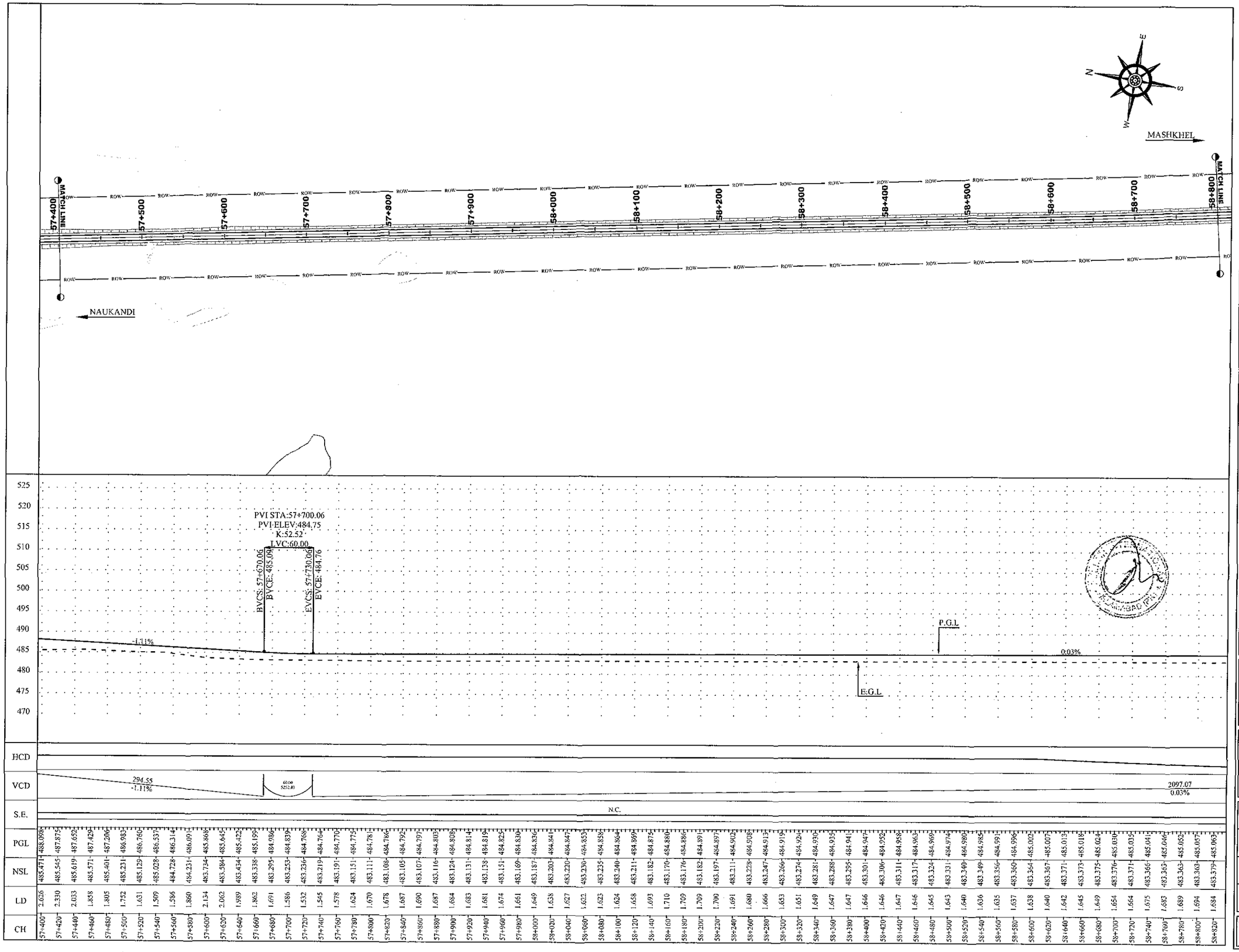
DRAWING TITLE:

PLAN & PROFILE
KM 56+000 TO 57+400

DESIGN BY: AYESHA SHABBIR	SHEET NO: 41 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/41

CH	LD	NSL	PGL
56+000	1.174	491.175	492.349
56+020	1.207	491.041	492.248
56+040	1.216	490.907	492.123
56+060	1.311	490.663	491.974
56+080	1.494	490.307	491.801
56+100	1.653	489.952	491.605
56+120	1.765	489.619	491.384
56+140	1.855	489.286	491.141
56+160	1.915	488.975	490.891
56+180	1.953	488.688	490.641
56+200	1.991	488.400	490.390
56+220	1.931	488.210	490.140
56+240	1.871	488.020	489.890
56+260	1.783	487.857	489.640
56+280	1.668	487.722	489.390
56+300	1.572	487.587	489.159
56+320	1.496	487.488	488.985
56+340	1.475	487.388	488.866
56+360	1.493	487.307	488.800
56+380	1.550	487.243	488.793
56+400	1.603	487.179	488.845
56+420	1.625	487.304	488.928
56+440	1.587	487.428	489.015
56+460	1.558	487.544	489.103
56+480	1.537	487.653	489.190
56+500	1.515	487.761	489.277
56+520	1.577	487.787	489.364
56+540	1.638	487.813	489.451
56+560	1.714	487.824	489.538
56+580	1.805	487.821	489.625
56+600	1.895	487.818	489.713
56+620	1.991	487.808	489.799
56+640	2.061	487.799	489.860
56+660	2.103	487.778	489.881
56+680	2.116	487.745	489.860
56+700	2.088	487.712	489.799
56+720	2.091	487.606	489.698
56+740	2.054	487.501	489.555
56+760	2.006	487.366	489.372
56+780	1.947	487.202	489.148
56+800	1.847	487.037	488.884
56+820	1.972	486.607	488.579
56+840	2.057	486.176	488.233
56+860	2.173	485.700	487.873
56+880	2.333	485.180	487.513
56+900	2.493	484.659	487.152
56+920	2.357	484.450	486.806
56+940	2.291	484.240	486.531
56+960	2.282	484.050	486.332
56+980	2.330	483.879	486.209
57+000	2.454	483.707	486.161
57+020	2.416	483.773	486.189
57+040	2.453	483.840	486.293
57+060	2.436	484.037	486.472
57+080	2.364	484.365	486.729
57+100	2.363	484.693	487.056
57+120	2.107	485.290	487.397
57+140	1.850	485.887	487.737
57+160	1.641	486.403	488.044
57+180	1.467	486.837	488.304
57+200	1.245	487.271	488.517
57+220	1.575	487.108	488.683
57+240	1.857	486.945	488.802
57+260	2.114	486.760	488.874
57+280	2.344	486.555	488.899
57+300	2.528	486.350	488.877
57+320	2.690	486.118	488.808
57+340	2.806	485.886	488.692
57+360	2.819	485.710	488.529
57+380	2.730	485.591	488.321
57+400	2.626	485.471	488.098
57+420	2.330	485.545	487.875



CH	NSL	PGL	LD
57+400	485.471	488.098	2.626
57+420	485.545	487.875	2.330
57+440	485.619	487.652	2.033
57+460	485.571	487.429	1.858
57+480	485.401	487.206	1.805
57+500	485.231	486.983	1.752
57+520	485.129	486.760	1.631
57+540	485.028	486.597	1.569
57+560	484.728	486.314	1.586
57+580	484.231	486.091	1.860
57+600	483.734	483.868	2.134
57+620	483.584	485.645	2.062
57+640	483.434	485.422	1.989
57+660	483.338	485.196	1.862
57+680	483.295	484.986	1.691
57+700	483.253	484.839	1.586
57+720	483.236	484.768	1.532
57+740	483.219	484.764	1.545
57+760	483.191	484.770	1.578
57+780	483.151	484.775	1.624
57+800	483.111	484.781	1.670
57+820	483.108	484.786	1.678
57+840	483.105	484.792	1.687
57+860	483.107	484.797	1.690
57+880	483.116	484.803	1.687
57+900	483.124	484.808	1.684
57+920	483.131	484.814	1.683
57+940	483.138	484.819	1.681
57+960	483.151	484.825	1.674
57+980	483.169	484.830	1.661
58+000	483.187	484.836	1.649
58+020	483.203	484.841	1.638
58+040	483.220	484.847	1.627
58+060	483.230	484.853	1.622
58+080	483.235	484.858	1.623
58+100	483.240	484.864	1.624
58+120	483.211	484.869	1.658
58+140	483.182	484.875	1.693
58+160	483.170	484.880	1.710
58+180	483.176	484.886	1.709
58+200	483.182	484.891	1.709
58+220	483.197	484.897	1.700
58+240	483.211	484.902	1.691
58+260	483.228	484.908	1.680
58+280	483.247	484.913	1.666
58+300	483.266	484.919	1.653
58+320	483.274	484.924	1.651
58+340	483.281	484.930	1.649
58+360	483.288	484.935	1.647
58+380	483.295	484.941	1.647
58+400	483.301	484.947	1.646
58+420	483.306	484.952	1.646
58+440	483.311	484.958	1.647
58+460	483.317	484.963	1.646
58+480	483.324	484.969	1.645
58+500	483.331	484.974	1.643
58+520	483.340	484.980	1.640
58+540	483.349	484.985	1.636
58+560	483.356	484.991	1.635
58+580	483.360	484.996	1.637
58+600	483.364	485.002	1.638
58+620	483.367	485.007	1.640
58+640	483.371	485.013	1.642
58+660	483.373	485.018	1.645
58+680	483.375	485.024	1.649
58+700	483.376	485.030	1.654
58+720	483.371	485.035	1.664
58+740	483.366	485.041	1.675
58+760	483.363	485.046	1.683
58+780	483.363	485.052	1.689
58+800	483.363	485.057	1.694
58+820	483.379	485.063	1.684

NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

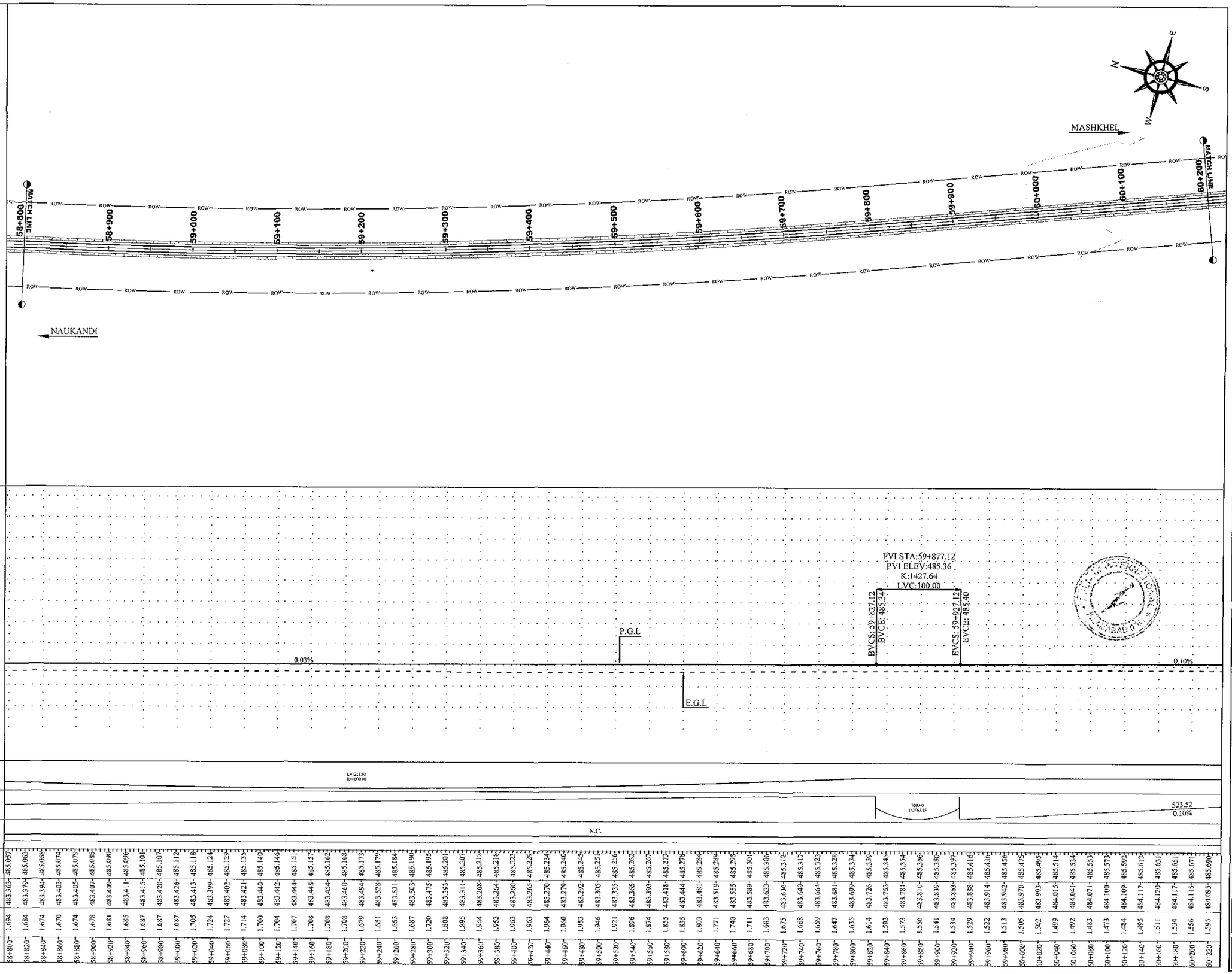
DRAWING TITLE:

PLAN & PROFILE
KM 57+400 TO 58+800

DESIGN BY: AYESHA SHABBIR	SHEET NO: 42 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV. 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/42



NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

CENTER LINE
ROAD EDGE
SHOULDER EDGE
P.G.L
E.G.L
BUILDING
CANAL
TREE
PROPOSED BOX CULVERT
1 - 3.5 X 1.5
CELL - W X H

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZERRUK INTERNATIONAL(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

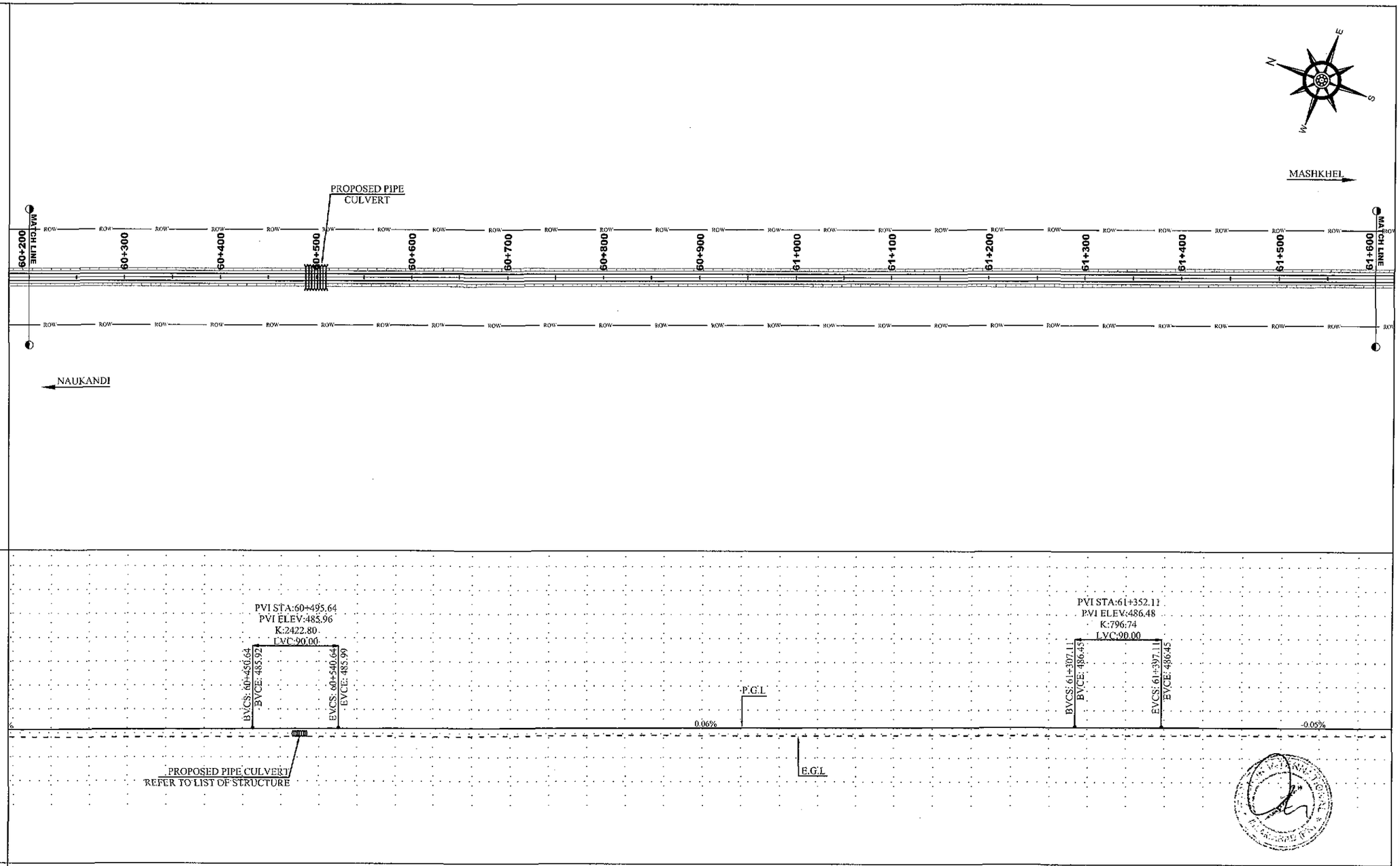
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

PLAN & PROFILE
KM 58+800 TO 60+200

DESIGN BY: AYESHA SHABBIR	SHEET NO: 43 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/43



NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph. 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

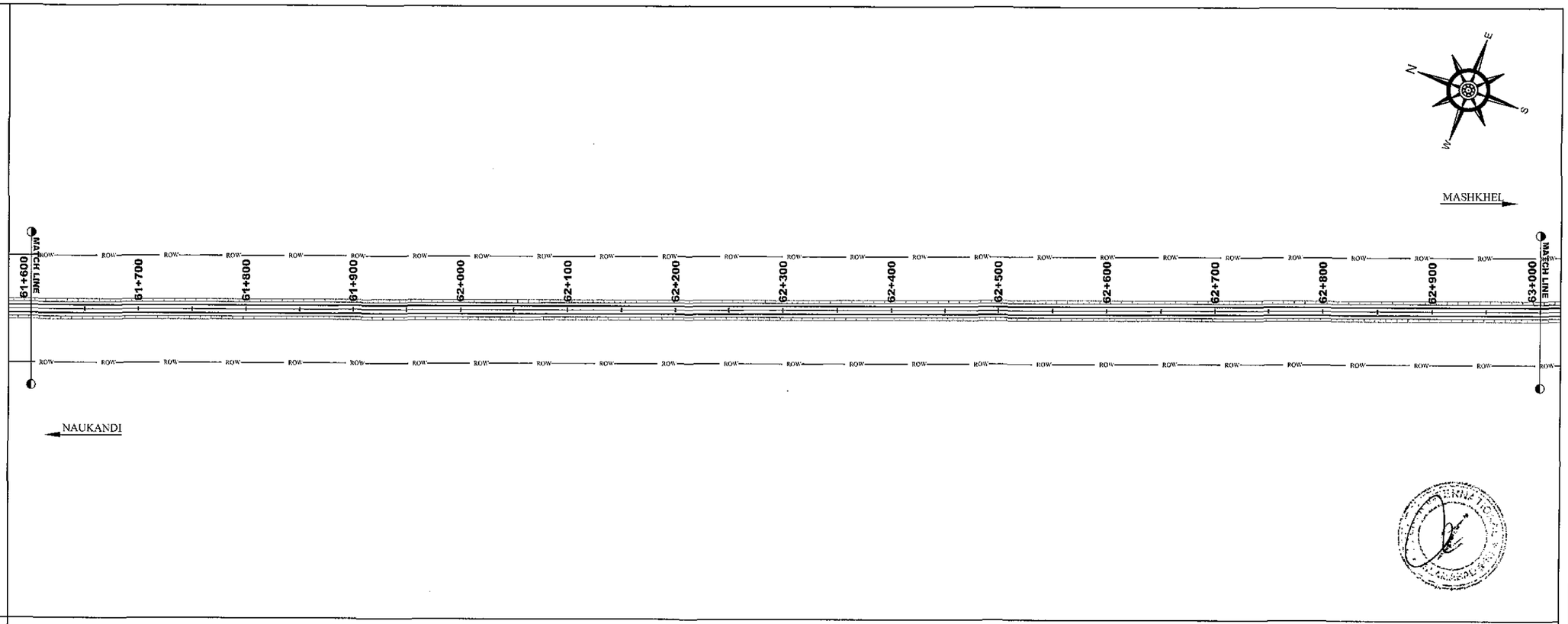
KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

PLAN & PROFILE
KM 60+200 TO 61+600

DESIGN BY: AYESHA SHABBIR	SHEET NO: 44 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/44



CH	PGL	NSL	LD
61+600	486.348	484.755	1.594
61+620	486.338	484.745	1.593
61+640	486.327	484.735	1.592
61+660	486.317	484.735	1.581
61+680	486.306	484.746	1.560
61+700	486.296	484.756	1.540
61+720	486.286	484.759	1.526
61+740	486.276	484.763	1.516
61+760	486.274	484.760	1.514
61+780	486.273	484.751	1.522
61+800	486.275	484.742	1.533
61+820	486.279	484.748	1.531
61+840	486.284	484.755	1.529
61+860	486.289	484.760	1.529
61+880	486.294	484.763	1.531
61+900	486.299	484.767	1.533
61+920	486.304	484.777	1.527
61+940	486.309	484.768	1.541
61+960	486.314	484.768	1.546
61+980	486.319	484.766	1.553
62+000	486.324	484.764	1.560
62+020	486.329	484.770	1.559
62+040	486.334	484.775	1.558
62+060	486.339	484.781	1.558
62+080	486.344	484.787	1.557
62+100	486.349	484.793	1.556
62+120	486.354	484.809	1.545
62+140	486.359	484.825	1.534
62+160	486.364	484.841	1.523
62+180	486.369	484.859	1.510
62+200	486.374	484.876	1.498
62+220	486.379	484.861	1.518
62+240	486.384	484.845	1.539
62+260	486.389	484.833	1.556
62+280	486.394	484.824	1.570
62+300	486.399	484.815	1.584
62+320	486.404	484.820	1.583
62+340	486.409	484.826	1.583
62+360	486.414	484.830	1.584
62+380	486.419	484.834	1.584
62+400	486.424	484.838	1.585
62+420	486.429	484.838	1.590
62+440	486.434	484.838	1.596
62+460	486.439	484.840	1.598
62+480	486.444	484.845	1.599
62+500	486.449	484.850	1.599
62+520	486.454	484.854	1.600
62+540	486.459	484.858	1.600
62+560	486.464	484.861	1.603
62+580	486.469	484.861	1.608
62+600	486.474	484.861	1.613
62+620	486.479	484.848	1.630
62+640	486.484	484.836	1.647
62+660	486.489	484.834	1.655
62+680	486.494	484.840	1.653
62+700	486.498	484.847	1.651
62+720	486.503	484.850	1.653
62+740	486.508	484.852	1.656
62+760	486.513	484.859	1.655
62+780	486.518	484.868	1.651
62+800	486.523	484.877	1.647
62+820	486.528	484.881	1.648
62+840	486.533	484.885	1.649
62+860	486.538	484.887	1.651
62+880	486.545	484.889	1.656
62+900	486.546	484.886	1.660
62+920	486.551	484.878	1.673
62+940	486.554	484.869	1.685
62+960	486.555	484.861	1.694
62+980	486.556	484.856	1.700
63+000	486.555	484.850	1.705
63+020	486.554	484.846	1.707

NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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3rd Floor, Time Square Plaza,
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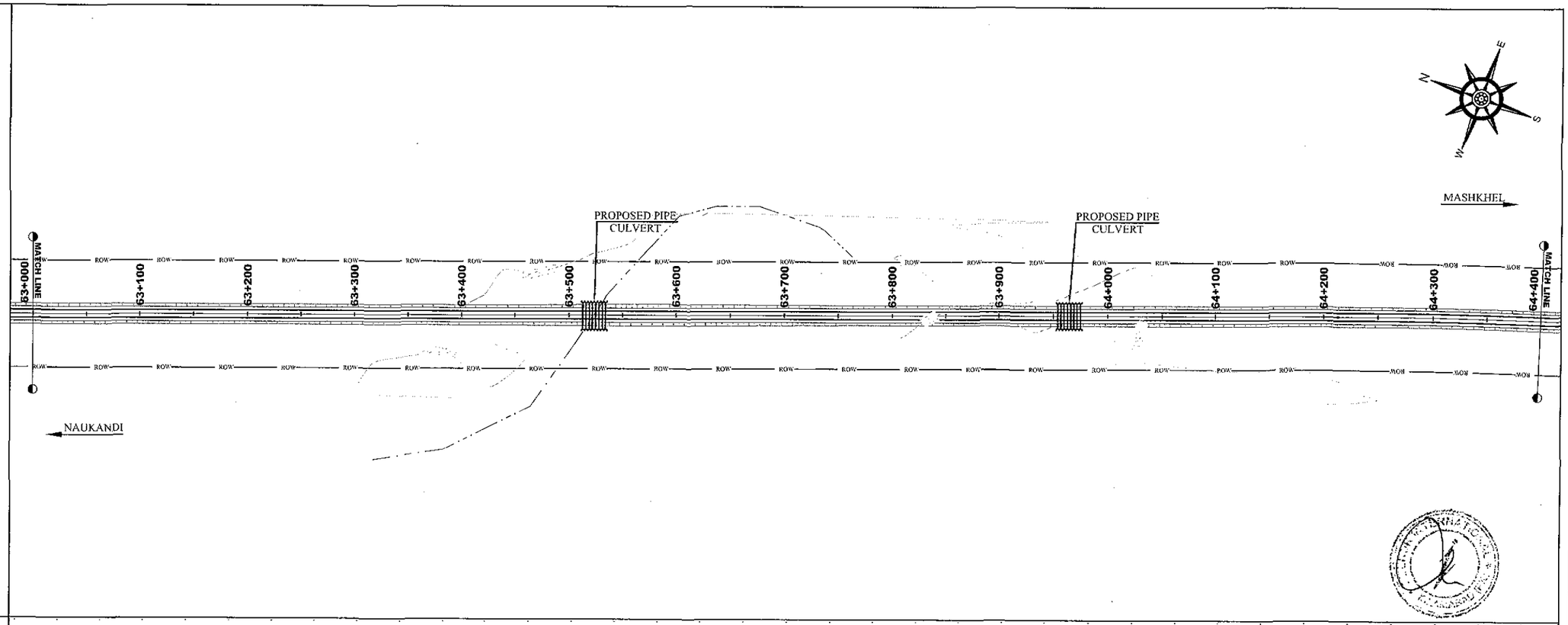
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

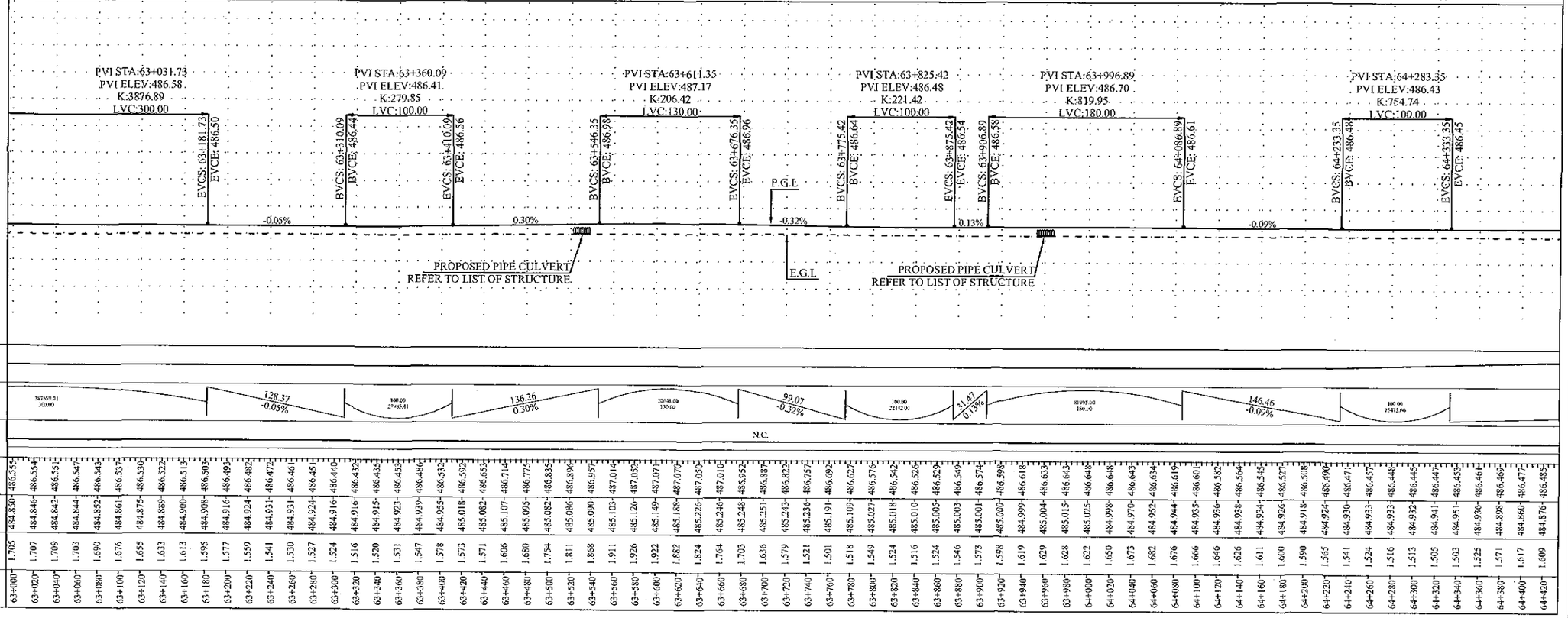
DRAWING TITLE:

PLAN & PROFILE
KM 61+600 TO 63+000

DESIGN BY: AYESHA SHABBIR	SHEET NO: 45 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/45





HCD

VCD

S.E.

N.C.

CH	PGL	NSL	LD
63+000	486.556	484.850	1.705
63+020	486.554	484.846	1.707
63+040	486.553	484.843	1.709
63+060	486.547	484.844	1.703
63+080	486.542	484.852	1.690
63+100	486.537	484.861	1.676
63+120	486.530	484.875	1.655
63+140	486.522	484.889	1.633
63+160	486.515	484.900	1.615
63+180	486.508	484.908	1.595
63+200	486.495	484.916	1.577
63+220	486.485	484.924	1.559
63+240	486.477	484.931	1.541
63+260	486.461	484.931	1.530
63+280	486.451	484.924	1.527
63+300	486.440	484.916	1.524
63+320	486.432	484.916	1.516
63+340	486.432	484.915	1.520
63+360	486.452	484.923	1.531
63+380	486.486	484.939	1.547
63+400	486.532	484.955	1.578
63+420	486.592	485.018	1.573
63+440	486.658	485.082	1.576
63+460	486.714	485.107	1.606
63+480	486.773	485.095	1.680
63+500	486.835	485.082	1.754
63+520	486.896	485.086	1.811
63+540	486.955	485.090	1.868
63+560	487.014	485.103	1.911
63+580	487.052	485.126	1.926
63+600	487.071	485.149	1.922
63+620	487.070	485.188	1.882
63+640	487.050	485.226	1.824
63+660	487.010	485.246	1.764
63+680	486.953	485.248	1.703
63+700	486.887	485.251	1.636
63+720	486.822	485.243	1.579
63+740	486.757	485.236	1.521
63+760	486.692	485.191	1.501
63+780	486.627	485.109	1.518
63+800	486.576	485.027	1.549
63+820	486.542	485.018	1.524
63+840	486.526	485.010	1.516
63+860	486.529	485.005	1.524
63+880	486.549	485.003	1.546
63+900	486.574	485.001	1.573
63+920	486.598	485.000	1.598
63+940	486.618	484.999	1.619
63+960	486.633	485.004	1.629
63+980	486.642	485.015	1.628
64+000	486.648	485.025	1.622
64+020	486.648	484.998	1.650
64+040	486.643	484.970	1.673
64+060	486.634	484.952	1.682
64+080	486.619	484.944	1.676
64+100	486.601	484.935	1.666
64+120	486.582	484.936	1.646
64+140	486.564	484.938	1.626
64+160	486.545	484.934	1.611
64+180	486.527	484.926	1.600
64+200	486.508	484.918	1.590
64+220	486.490	484.924	1.565
64+240	486.471	484.930	1.541
64+260	486.457	484.933	1.524
64+280	486.448	484.933	1.516
64+300	486.445	484.932	1.513
64+320	486.447	484.941	1.505
64+340	486.453	484.951	1.503
64+360	486.461	484.936	1.525
64+380	486.469	484.898	1.571
64+400	486.477	484.860	1.617
64+420	486.485	484.876	1.609

NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 3.5 (CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

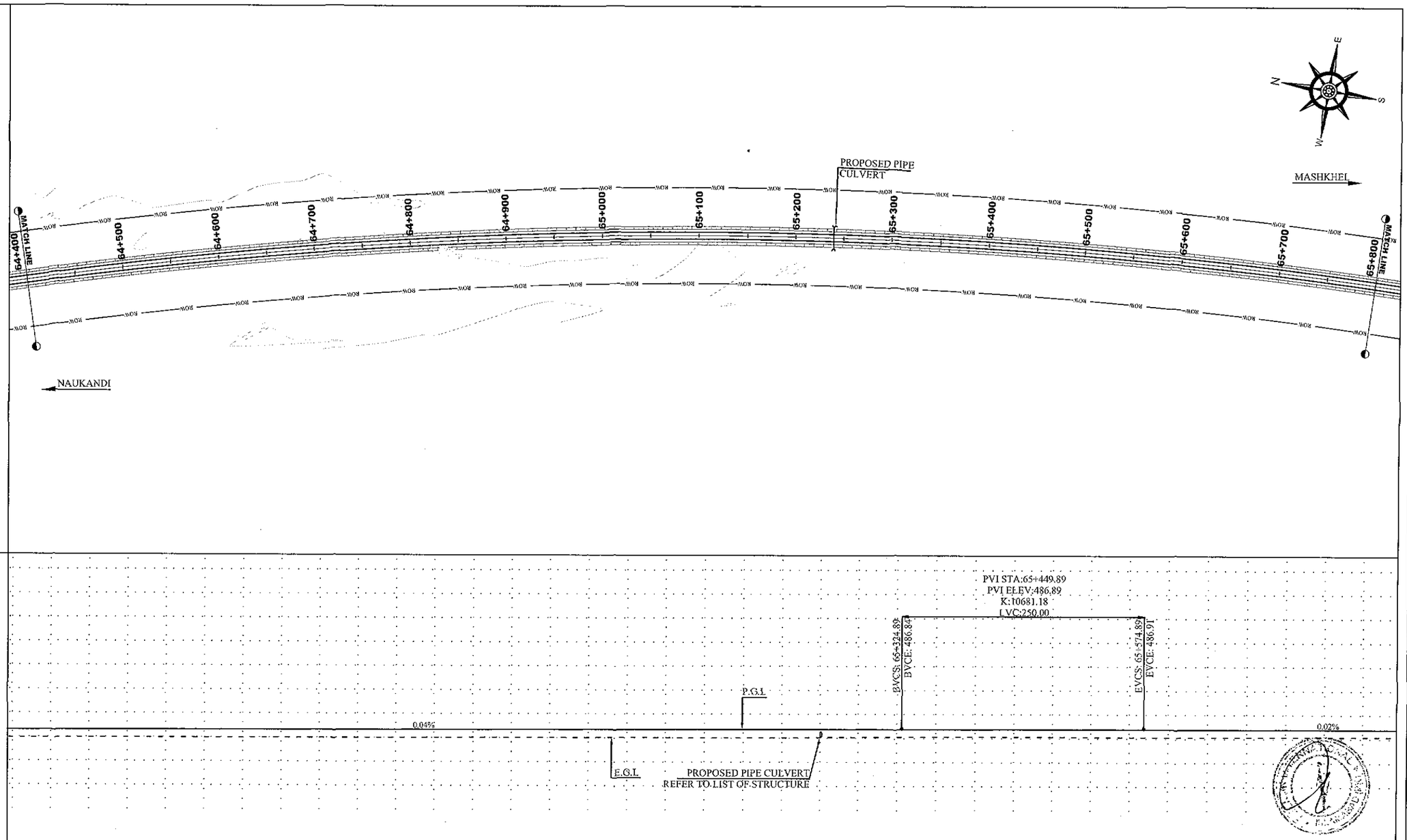
DRAWING TITLE:

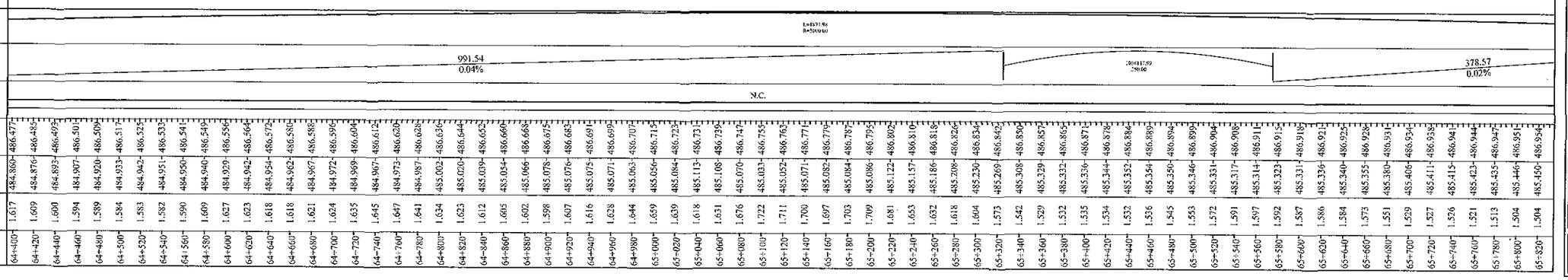
PLAN & PROFILE
KM 63+000 TO 64+400

DESIGN BY: AYESHA SHABBIR	SHEET NO: 46 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/46





NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 3.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
1-8 Mantaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

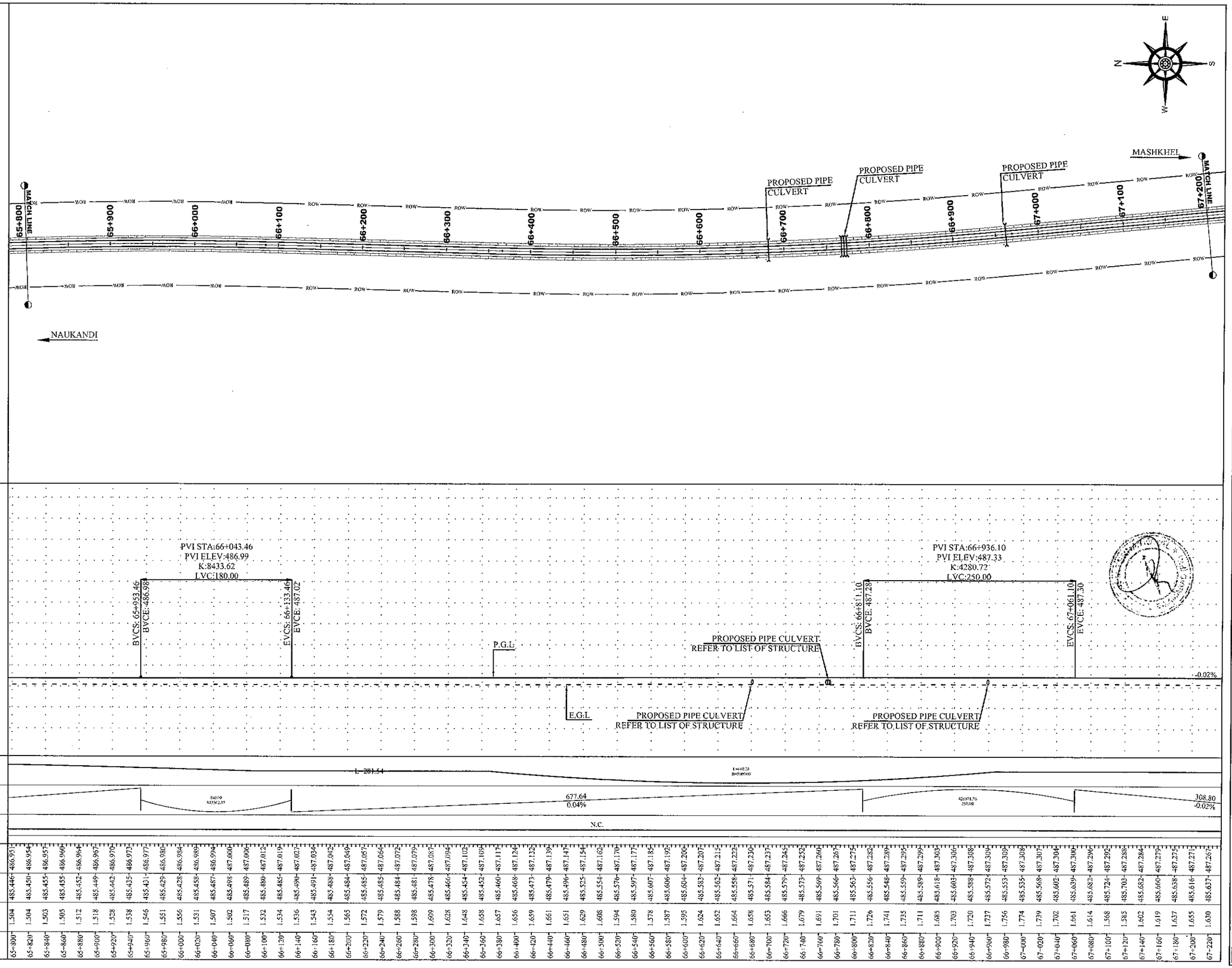
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

PLAN & PROFILE
KM 64+400 TO 65+800

DESIGN BY: AYESHA SHABBIR	SHEET NO: 47 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/P/47



NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

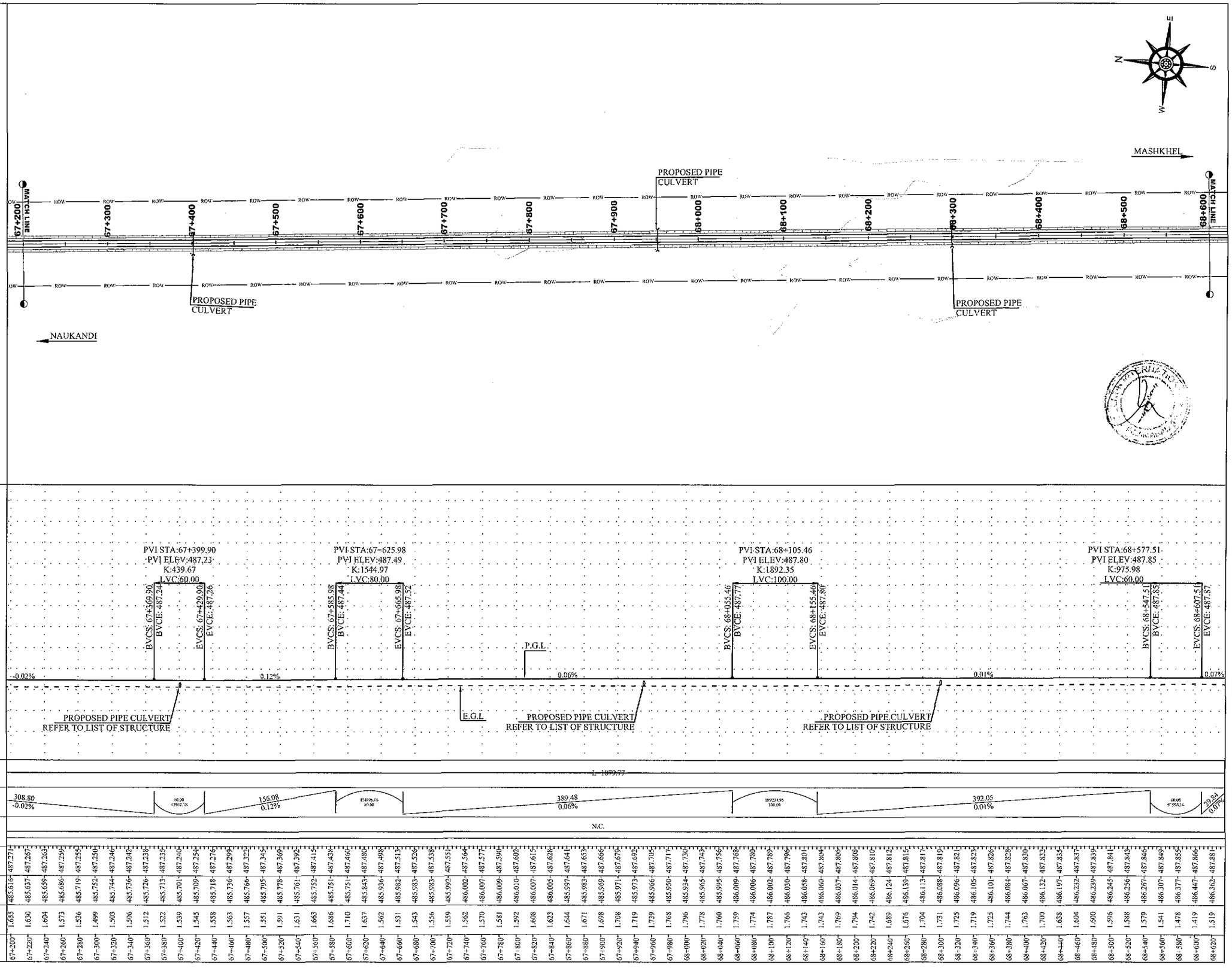
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

PLAN & PROFILE
KM 65+800 TO 67+200

DESIGN BY: AYESHA SHABBIR	SHEET NO: 48 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/48



NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
1-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

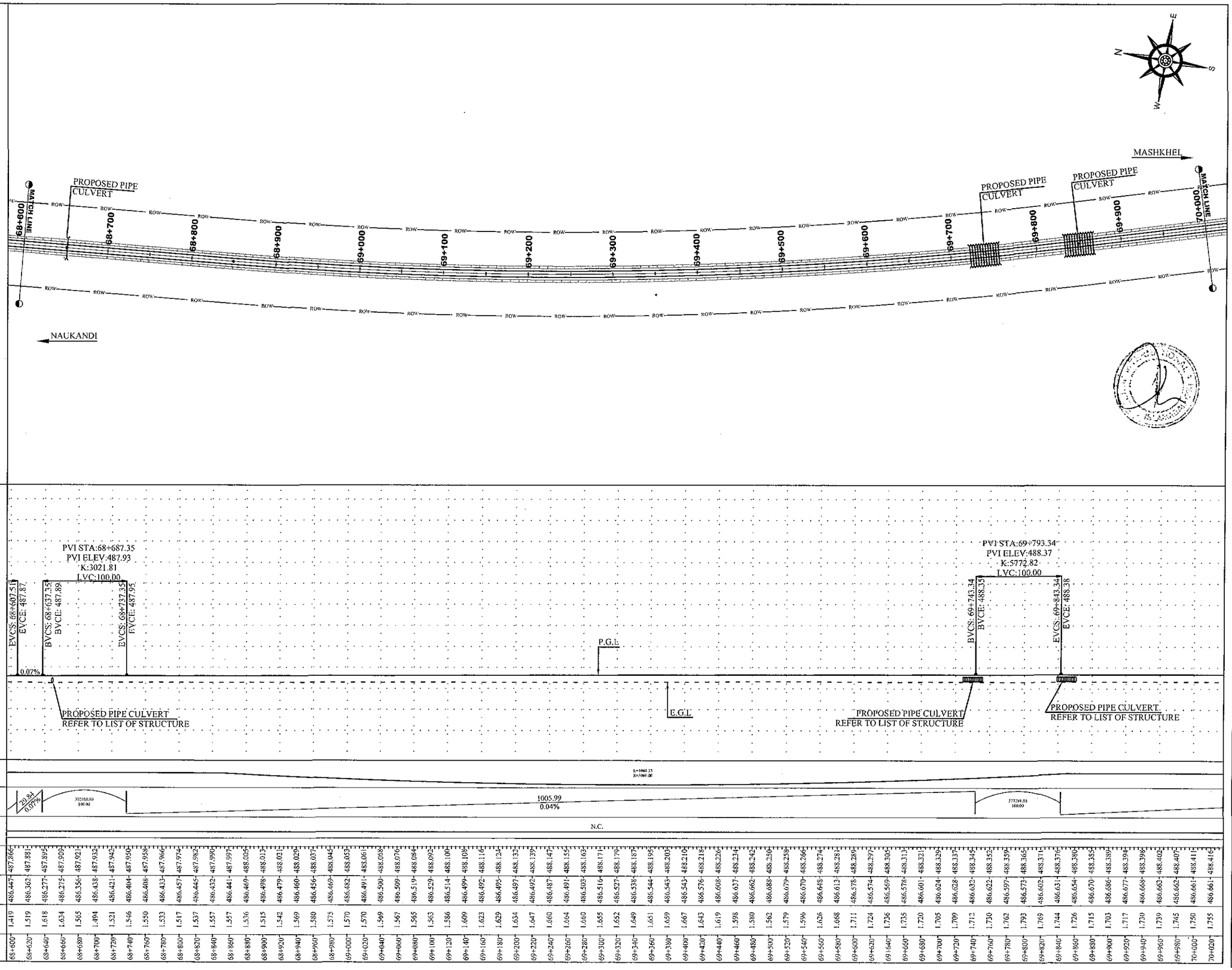
DRAWING TITLE:

PLAN & PROFILE
KM 67+200 TO 68+600

DESIGN BY: AYESHA SHABBIR	SHEET NO: 49 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/49

CH	PGL	NSL	LD
67+200	487.271	485.616	1.655
67+220	487.267	485.637	1.630
67+240	487.263	485.659	1.604
67+260	487.259	485.686	1.573
67+280	487.255	485.719	1.536
67+300	487.250	485.752	1.499
67+320	487.246	485.744	1.503
67+340	487.242	485.736	1.506
67+360	487.238	485.726	1.512
67+380	487.235	485.713	1.522
67+400	487.240	485.701	1.539
67+420	487.254	485.709	1.545
67+440	487.276	485.718	1.558
67+460	487.299	485.736	1.563
67+480	487.322	485.766	1.557
67+500	487.345	485.795	1.551
67+520	487.369	485.778	1.591
67+540	487.392	485.761	1.631
67+560	487.415	485.752	1.663
67+580	487.438	485.751	1.686
67+600	487.460	485.751	1.710
67+620	487.480	485.843	1.637
67+640	487.498	485.936	1.562
67+660	487.513	485.982	1.531
67+680	487.526	485.983	1.543
67+700	487.538	485.983	1.556
67+720	487.551	485.992	1.559
67+740	487.564	486.002	1.562
67+760	487.577	486.007	1.570
67+780	487.590	486.009	1.581
67+800	487.602	486.010	1.592
67+820	487.615	486.007	1.608
67+840	487.628	486.005	1.623
67+860	487.641	485.997	1.644
67+880	487.653	485.983	1.671
67+900	487.666	485.969	1.698
67+920	487.679	485.971	1.708
67+940	487.692	485.973	1.719
67+960	487.705	485.966	1.739
67+980	487.717	485.950	1.768
68+000	487.730	485.934	1.796
68+020	487.743	485.965	1.778
68+040	487.756	485.935	1.760
68+060	487.768	486.009	1.759
68+080	487.780	486.006	1.774
68+100	487.789	486.002	1.787
68+120	487.796	486.030	1.766
68+140	487.801	486.058	1.743
68+160	487.804	486.060	1.743
68+180	487.806	486.037	1.769
68+200	487.808	486.014	1.794
68+220	487.810	486.069	1.742
68+240	487.812	486.124	1.689
68+260	487.815	486.139	1.676
68+280	487.817	486.113	1.704
68+300	487.819	486.088	1.731
68+320	487.821	486.096	1.725
68+340	487.823	486.105	1.719
68+360	487.826	486.101	1.725
68+380	487.828	486.084	1.744
68+400	487.830	486.067	1.763
68+420	487.832	486.132	1.700
68+440	487.835	486.197	1.638
68+460	487.837	486.232	1.604
68+480	487.839	486.239	1.600
68+500	487.841	486.245	1.596
68+520	487.843	486.256	1.588
68+540	487.846	486.267	1.579
68+560	487.849	486.307	1.541
68+580	487.855	486.377	1.478
68+600	487.866	486.447	1.419
68+620	487.881	486.562	1.319



NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

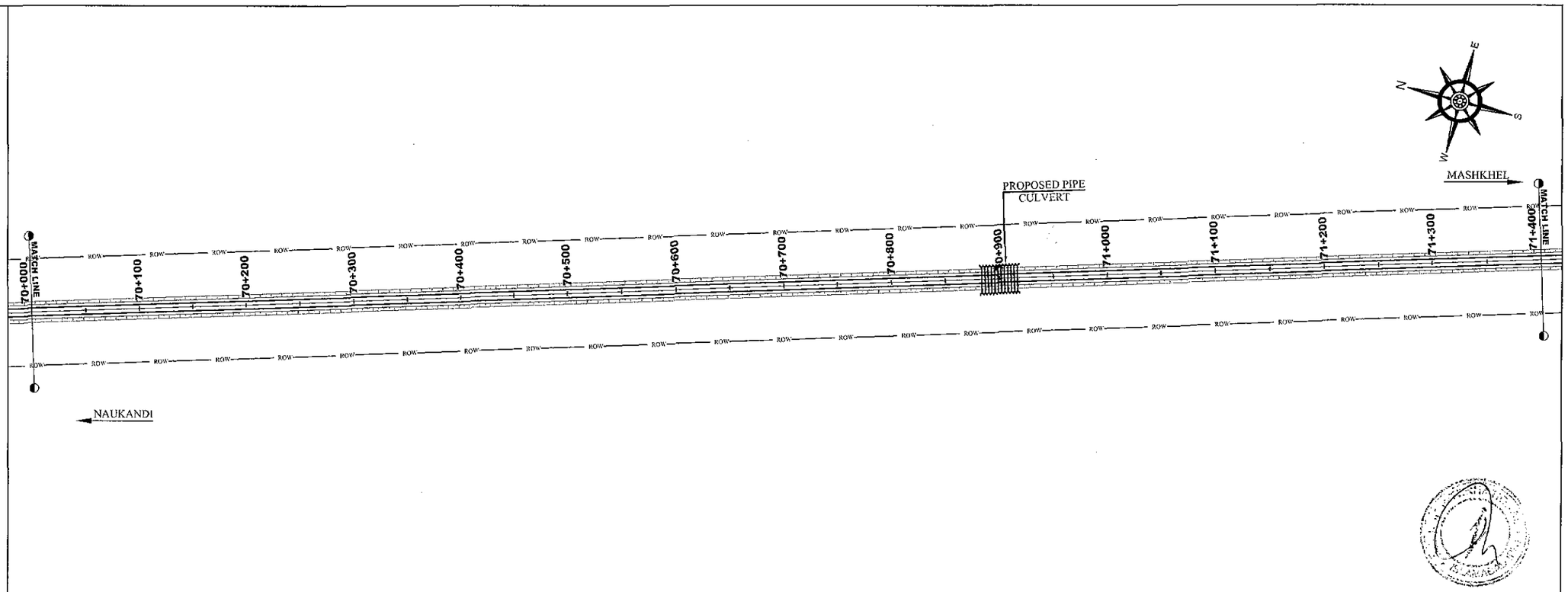
DRAWING TITLE:

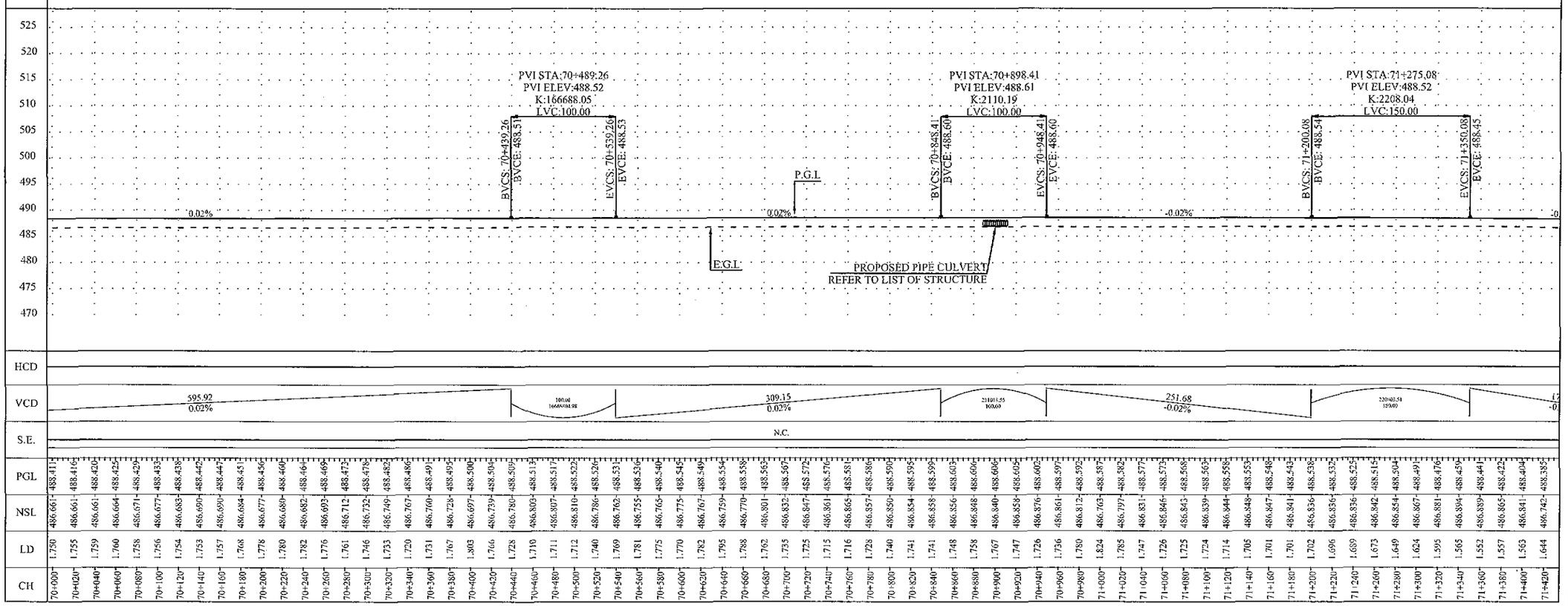
PLAN & PROFILE
KM 68+600 TO 70+000

DESIGN BY: AYESHA SHABBIR	SHEET NO: 50 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

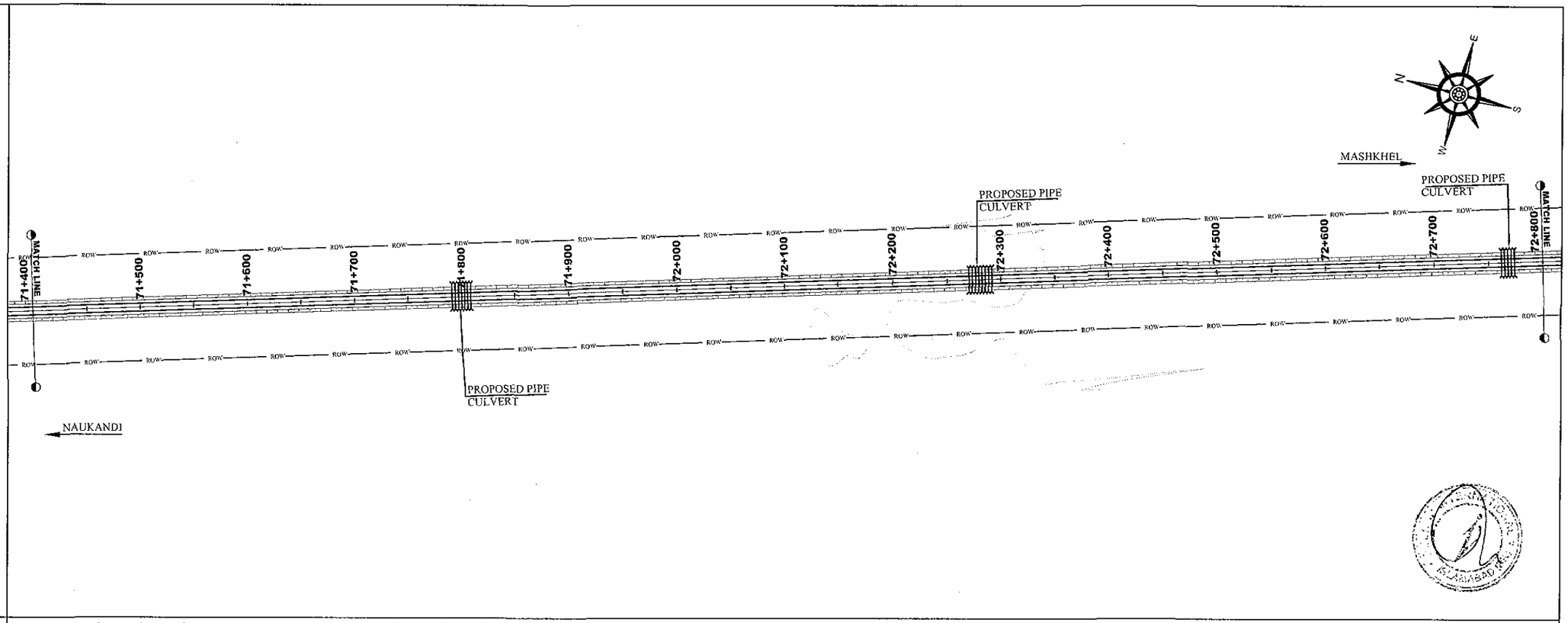
CAD FILE NAME: ZI/KA/NK/P/50

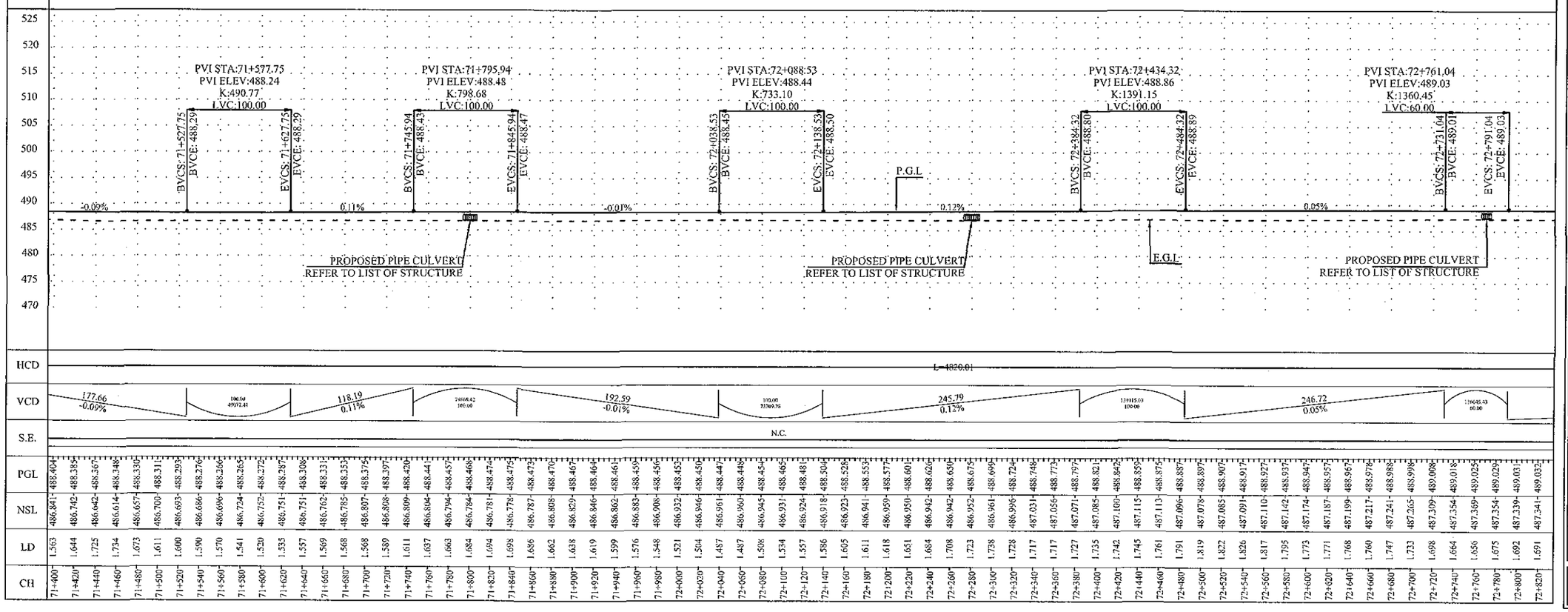
CH	PGL	NSL	LD
68+600	487.466	486.447	1.419
68+620	487.481	486.362	1.519
68+640	487.495	486.277	1.618
68+660	487.909	486.275	1.634
68+680	487.921	486.356	1.565
68+700	487.932	486.438	1.494
68+720	487.942	486.421	1.521
68+740	487.950	486.404	1.546
68+760	487.958	486.408	1.550
68+780	487.966	486.433	1.533
68+800	487.974	486.457	1.517
68+820	487.982	486.445	1.537
68+840	487.990	486.432	1.557
68+860	487.997	486.441	1.557
68+880	488.005	486.469	1.536
68+900	488.013	486.498	1.515
68+920	488.021	486.479	1.542
68+940	488.029	486.460	1.569
68+960	488.037	486.456	1.580
68+980	488.045	486.469	1.575
69+000	488.053	486.482	1.570
69+020	488.061	486.491	1.570
69+040	488.068	486.500	1.569
69+060	488.076	486.509	1.567
69+080	488.084	486.519	1.565
69+100	488.092	486.529	1.563
69+120	488.100	486.514	1.586
69+140	488.108	486.499	1.609
69+160	488.116	486.492	1.623
69+180	488.124	486.495	1.629
69+200	488.132	486.497	1.634
69+220	488.139	486.492	1.647
69+240	488.147	486.487	1.660
69+260	488.155	486.491	1.664
69+280	488.163	486.503	1.660
69+300	488.171	486.516	1.655
69+320	488.179	486.527	1.652
69+340	488.187	486.538	1.649
69+360	488.195	486.544	1.651
69+380	488.203	486.543	1.659
69+400	488.210	486.543	1.667
69+420	488.218	486.576	1.643
69+440	488.226	486.608	1.619
69+460	488.234	486.627	1.608
69+480	488.242	486.662	1.580
69+500	488.250	486.688	1.562
69+520	488.258	486.679	1.579
69+540	488.266	486.670	1.596
69+560	488.274	486.648	1.626
69+580	488.281	486.613	1.668
69+600	488.289	486.578	1.711
69+620	488.297	486.574	1.724
69+640	488.305	486.569	1.736
69+660	488.313	486.578	1.735
69+680	488.321	486.601	1.720
69+700	488.329	486.624	1.705
69+720	488.337	486.628	1.709
69+740	488.345	486.632	1.712
69+760	488.353	486.622	1.730
69+780	488.359	486.597	1.762
69+800	488.365	486.573	1.793
69+820	488.371	486.602	1.769
69+840	488.376	486.631	1.744
69+860	488.380	486.654	1.726
69+880	488.385	486.670	1.715
69+900	488.389	486.686	1.703
69+920	488.394	486.677	1.717
69+940	488.398	486.668	1.730
69+960	488.402	486.663	1.739
69+980	488.407	486.662	1.745
70+000	488.411	486.661	1.750
70+020	488.416	486.661	1.755


N
E
S
W
MASHKHEL
NAUKANDI
MATCH LINE
MATCH LINE
PROPOSED PIPE CULVERT
70+000
70+100
70+200
70+300
70+400
70+500
70+600
70+700
70+800
70+900
71+000
71+100
71+200
71+300
71+400
ROW


PVI STA:70+489.26
PVI ELEV:488.52
K:186688.05
LVC:100.00
BVCS: 70+439.26
BVCE: 488.51
EVCS: 70+539.26
EVCE: 488.53
PVI STA:70+898.41
PVI ELEV:488.61
K:2110.19
LVC:100.00
BVCS: 70+848.41
BVCE: 488.60
EVCS: 70+948.41
EVCE: 488.60
PVI STA:71+275.08
PVI ELEV:488.52
K:2208.04
LVC:150.00
BVCS: 71+200.08
BVCE: 488.54
EVCS: 71+350.08
EVCE: 488.45
P.G.L
E.G.L
0.02%
-0.02%
PROPOSED PIPE CULVERT
REFER TO LIST OF STRUCTURE
525
520
515
510
505
500
495
490
485
480
475
470

| | | |





CH	PGL	NSL	LD
71+400	488.404	486.841	1.563
71+420	488.385	486.742	1.644
71+440	488.367	486.642	1.725
71+460	488.348	486.614	1.734
71+480	488.330	486.657	1.673
71+500	488.311	486.700	1.611
71+520	488.293	486.693	1.600
71+540	488.276	486.686	1.590
71+560	488.266	486.696	1.570
71+580	488.265	486.724	1.541
71+600	488.272	486.752	1.520
71+620	488.287	486.751	1.535
71+640	488.306	486.751	1.557
71+660	488.331	486.762	1.569
71+680	488.353	486.785	1.568
71+700	488.375	486.807	1.568
71+720	488.397	486.808	1.589
71+740	488.420	486.809	1.611
71+760	488.441	486.804	1.637
71+780	488.457	486.794	1.663
71+800	488.468	486.784	1.684
71+820	488.474	486.781	1.694
71+840	488.475	486.778	1.698
71+860	488.473	486.787	1.686
71+880	488.470	486.808	1.662
71+900	488.467	486.829	1.638
71+920	488.464	486.846	1.619
71+940	488.461	486.862	1.599
71+960	488.459	486.883	1.576
71+980	488.456	486.908	1.548
72+000	488.453	486.932	1.521
72+020	488.450	486.946	1.504
72+040	488.447	486.961	1.487
72+060	488.448	486.960	1.487
72+080	488.454	486.945	1.508
72+100	488.465	486.931	1.534
72+120	488.481	486.924	1.557
72+140	488.504	486.918	1.586
72+160	488.528	486.923	1.605
72+180	488.553	486.941	1.611
72+200	488.577	486.959	1.618
72+220	488.601	486.950	1.651
72+240	488.626	486.942	1.684
72+260	488.650	486.942	1.708
72+280	488.675	486.952	1.723
72+300	488.699	486.961	1.738
72+320	488.724	486.996	1.728
72+340	488.748	487.031	1.717
72+360	488.773	487.056	1.717
72+380	488.797	487.071	1.727
72+400	488.821	487.085	1.735
72+420	488.843	487.100	1.742
72+440	488.859	487.115	1.745
72+460	488.875	487.113	1.761
72+480	488.887	487.096	1.791
72+500	488.897	487.078	1.819
72+520	488.903	487.085	1.822
72+540	488.917	487.091	1.826
72+560	488.927	487.110	1.817
72+580	488.937	487.142	1.795
72+600	488.947	487.174	1.773
72+620	488.957	487.187	1.771
72+640	488.967	487.199	1.768
72+660	488.978	487.217	1.760
72+680	488.988	487.241	1.747
72+700	488.998	487.265	1.733
72+720	489.008	487.309	1.698
72+740	489.018	487.354	1.664
72+760	489.025	487.369	1.656
72+780	489.029	487.354	1.675
72+800	489.031	487.339	1.692
72+820	489.032	487.341	1.691

NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (t - 3.5 X L5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

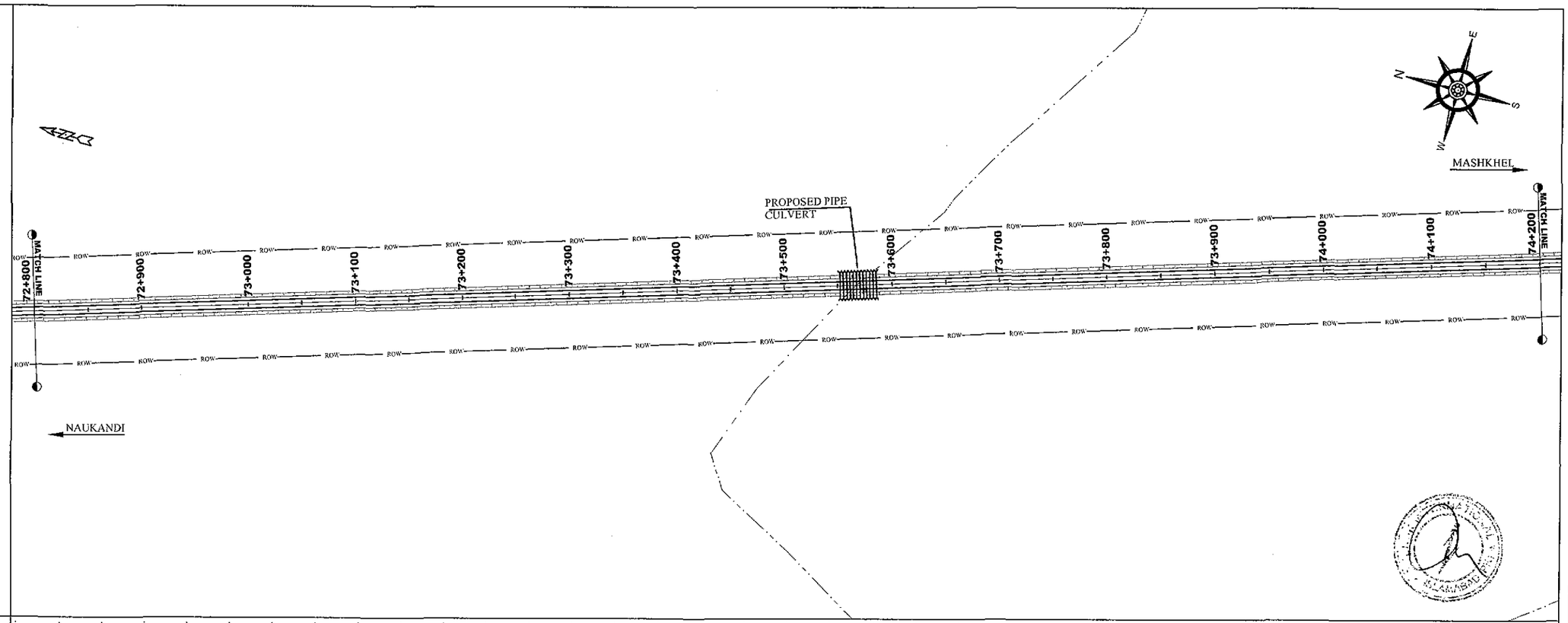
CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
PLAN & PROFILE
KM 71+400 TO 72+800

DESIGN BY:	SHEET NO:
AYESHA SHABBIR	52 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/P/52



CH	PGL	NSL	LD
72+800	489.031	487.339	1.692
72+820	489.032	487.341	1.691
72+840	489.034	487.344	1.690
72+860	489.035	487.360	1.675
72+880	489.036	487.388	1.648
72+900	489.037	487.416	1.621
72+920	489.039	487.406	1.633
72+940	489.040	487.396	1.644
72+960	489.041	487.383	1.658
72+980	489.042	487.369	1.674
73+000	489.044	487.354	1.690
73+020	489.045	487.386	1.659
73+040	489.046	487.418	1.628
73+060	489.048	487.467	1.580
73+080	489.049	487.533	1.516
73+100	489.050	487.598	1.452
73+120	489.051	487.529	1.522
73+140	489.053	487.460	1.592
73+160	489.054	487.422	1.632
73+180	489.055	487.414	1.641
73+200	489.057	487.407	1.650
73+220	489.058	487.411	1.647
73+240	489.059	487.415	1.644
73+260	489.060	487.415	1.645
73+280	489.062	487.410	1.652
73+300	489.063	487.405	1.658
73+320	489.064	487.393	1.672
73+340	489.065	487.380	1.685
73+360	489.067	487.381	1.686
73+380	489.068	487.395	1.673
73+400	489.069	487.409	1.661
73+420	489.071	487.413	1.657
73+440	489.072	487.418	1.654
73+460	489.073	487.423	1.650
73+480	489.074	487.429	1.645
73+500	489.076	487.435	1.641
73+520	489.076	487.428	1.648
73+540	489.076	487.422	1.654
73+560	489.074	487.417	1.658
73+580	489.072	487.414	1.658
73+600	489.068	487.411	1.657
73+620	489.063	487.412	1.651
73+640	489.058	487.413	1.645
73+660	489.054	487.413	1.641
73+680	489.049	487.410	1.639
73+700	489.044	487.406	1.638
73+720	489.040	487.400	1.640
73+740	489.038	487.394	1.644
73+760	489.041	487.385	1.656
73+780	489.048	487.373	1.675
73+800	489.060	487.362	1.698
73+820	489.076	487.379	1.697
73+840	489.094	487.397	1.697
73+860	489.112	487.404	1.707
73+880	489.129	487.402	1.728
73+900	489.147	487.400	1.748
73+920	489.165	487.500	1.665
73+940	489.183	487.601	1.582
73+960	489.200	487.678	1.523
73+980	489.218	487.732	1.486
74+000	489.236	487.786	1.450
74+020	489.254	487.785	1.469
74+040	489.271	487.784	1.487
74+060	489.289	487.784	1.505
74+080	489.307	487.785	1.521
74+100	489.325	487.787	1.538
74+120	489.342	487.789	1.554
74+140	489.360	487.790	1.570
74+160	489.378	487.789	1.589
74+180	489.395	487.785	1.610
74+200	489.410	487.781	1.629
74+220	489.427	487.778	1.643

NOTES

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LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5, CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

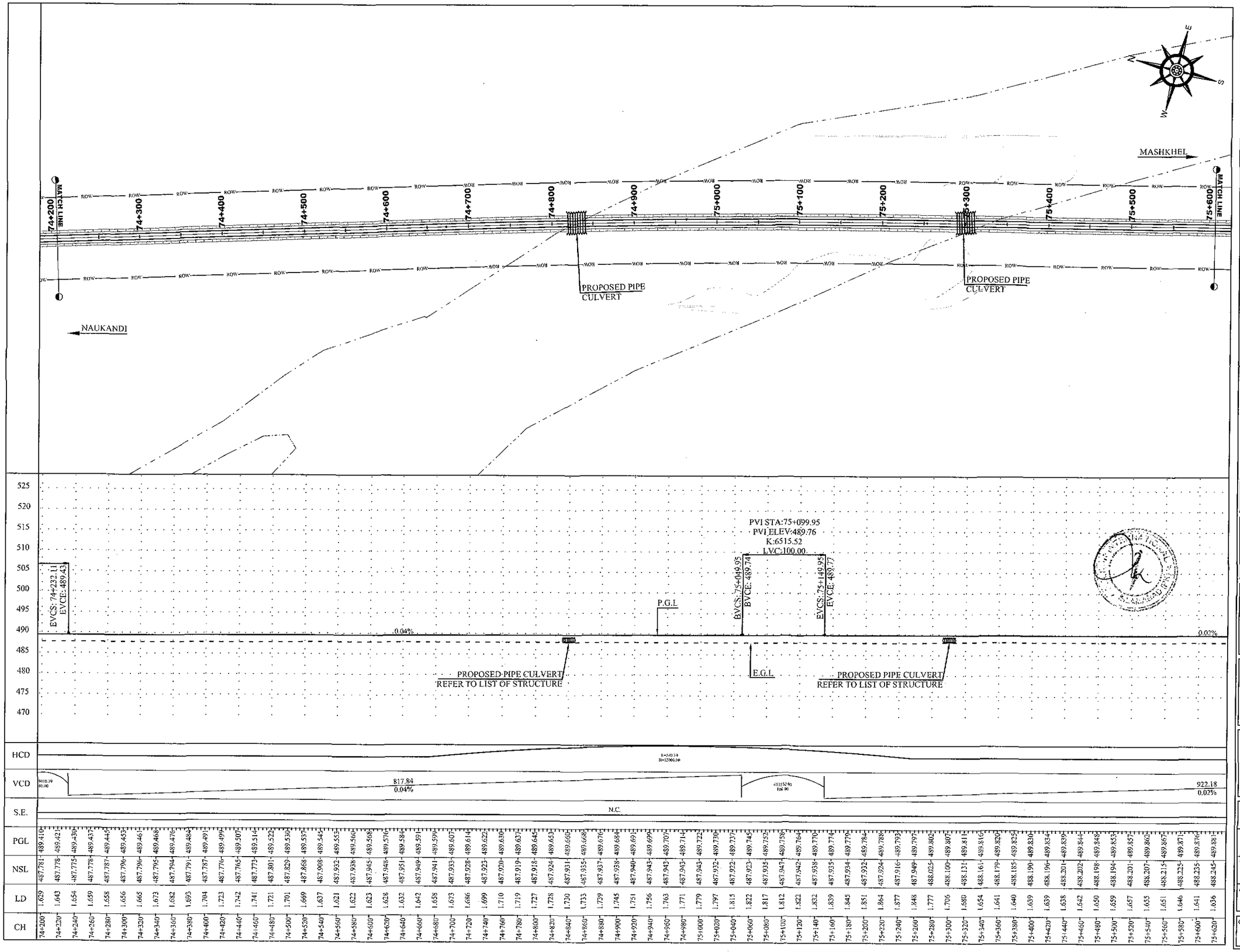
DRAWING TITLE:

PLAN & PROFILE
KM 72+800 TO 74+200

DESIGN BY: AYESHA SHABBIR	SHEET NO: 53 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/53



CH	LD	NSL	PGL
74+200	1.629	487.781	489.410
74+220	1.643	487.778	489.421
74+240	1.654	487.775	489.430
74+260	1.659	487.778	489.437
74+280	1.658	487.787	489.445
74+300	1.656	487.796	489.452
74+320	1.665	487.799	489.464
74+340	1.673	487.795	489.468
74+360	1.682	487.794	489.476
74+380	1.693	487.791	489.484
74+400	1.704	487.787	489.491
74+420	1.723	487.776	489.499
74+440	1.742	487.765	489.507
74+460	1.741	487.773	489.514
74+480	1.721	487.801	489.522
74+500	1.701	487.829	489.530
74+520	1.669	487.868	489.537
74+540	1.637	487.908	489.545
74+560	1.621	487.932	489.553
74+580	1.622	487.938	489.560
74+600	1.623	487.945	489.568
74+620	1.628	487.948	489.576
74+640	1.632	487.951	489.584
74+660	1.642	487.949	489.591
74+680	1.658	487.941	489.599
74+700	1.673	487.933	489.607
74+720	1.686	487.928	489.614
74+740	1.699	487.923	489.622
74+760	1.710	487.920	489.630
74+780	1.719	487.919	489.637
74+800	1.727	487.918	489.645
74+820	1.728	487.924	489.653
74+840	1.730	487.931	489.660
74+860	1.733	487.935	489.668
74+880	1.739	487.937	489.676
74+900	1.745	487.938	489.684
74+920	1.751	487.940	489.691
74+940	1.756	487.943	489.699
74+960	1.763	487.943	489.707
74+980	1.771	487.943	489.714
75+000	1.779	487.943	489.722
75+020	1.797	487.932	489.730
75+040	1.815	487.922	489.737
75+060	1.822	487.923	489.745
75+080	1.817	487.935	489.752
75+100	1.812	487.947	489.758
75+120	1.822	487.942	489.764
75+140	1.832	487.938	489.770
75+160	1.839	487.935	489.774
75+180	1.845	487.934	489.779
75+200	1.851	487.932	489.784
75+220	1.864	487.924	489.788
75+240	1.877	487.916	489.793
75+260	1.848	487.949	489.797
75+280	1.777	488.025	489.802
75+300	1.706	488.100	489.807
75+320	1.680	488.131	489.811
75+340	1.654	488.161	489.816
75+360	1.641	488.179	489.820
75+380	1.640	488.185	489.825
75+400	1.639	488.190	489.830
75+420	1.639	488.196	489.834
75+440	1.638	488.201	489.839
75+460	1.642	488.202	489.844
75+480	1.650	488.198	489.848
75+500	1.659	488.194	489.853
75+520	1.667	488.201	489.857
75+540	1.655	488.207	489.862
75+560	1.651	488.215	489.867
75+580	1.646	488.225	489.871
75+600	1.641	488.235	489.876
75+620	1.636	488.245	489.880

NOTES

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LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

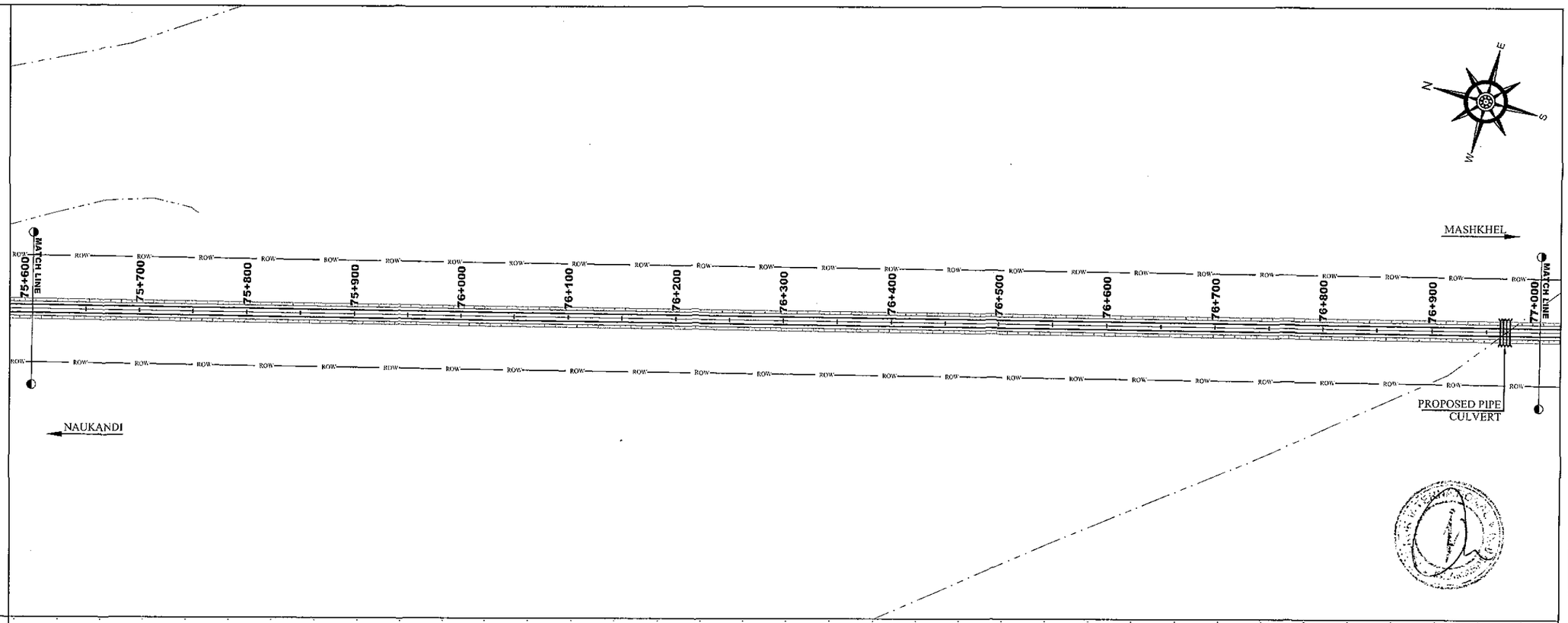
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Phase,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

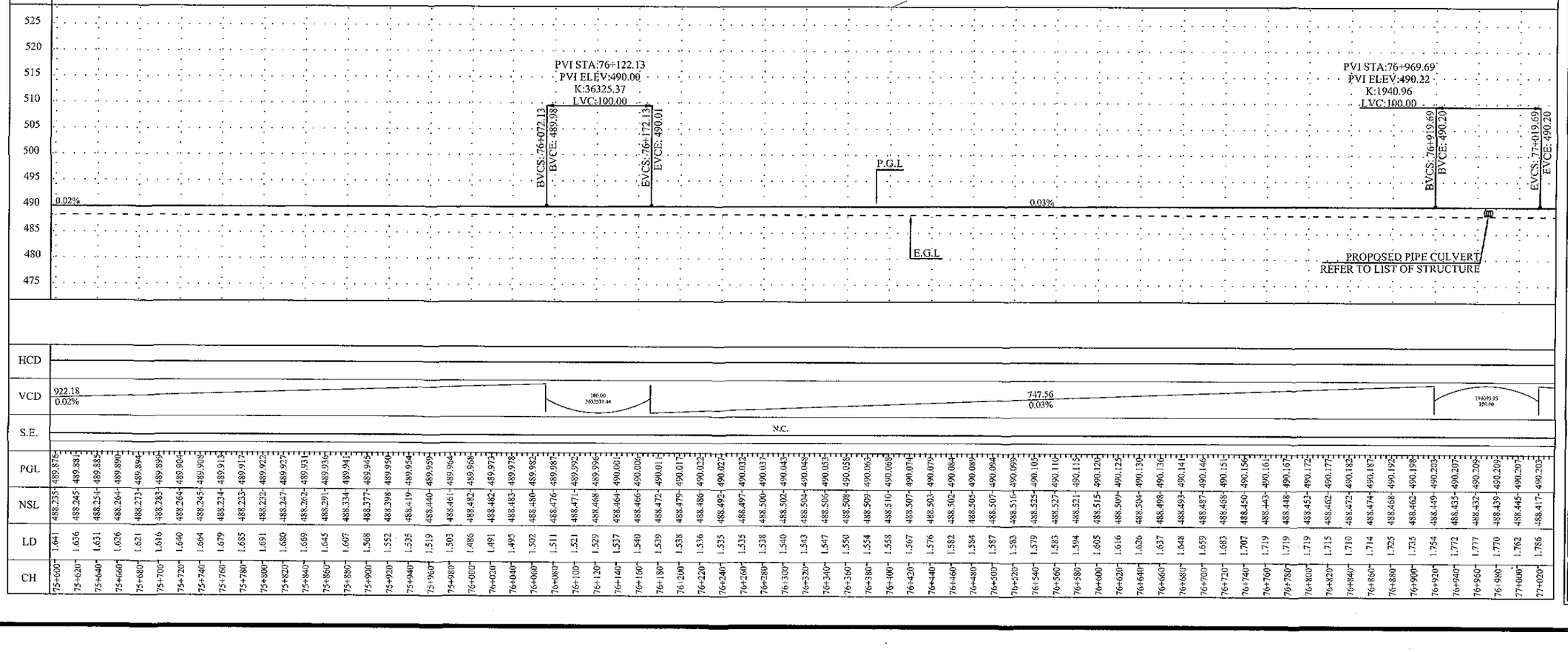
DRAWING TITLE:

PLAN & PROFILE
KM 74+200 TO 75+600

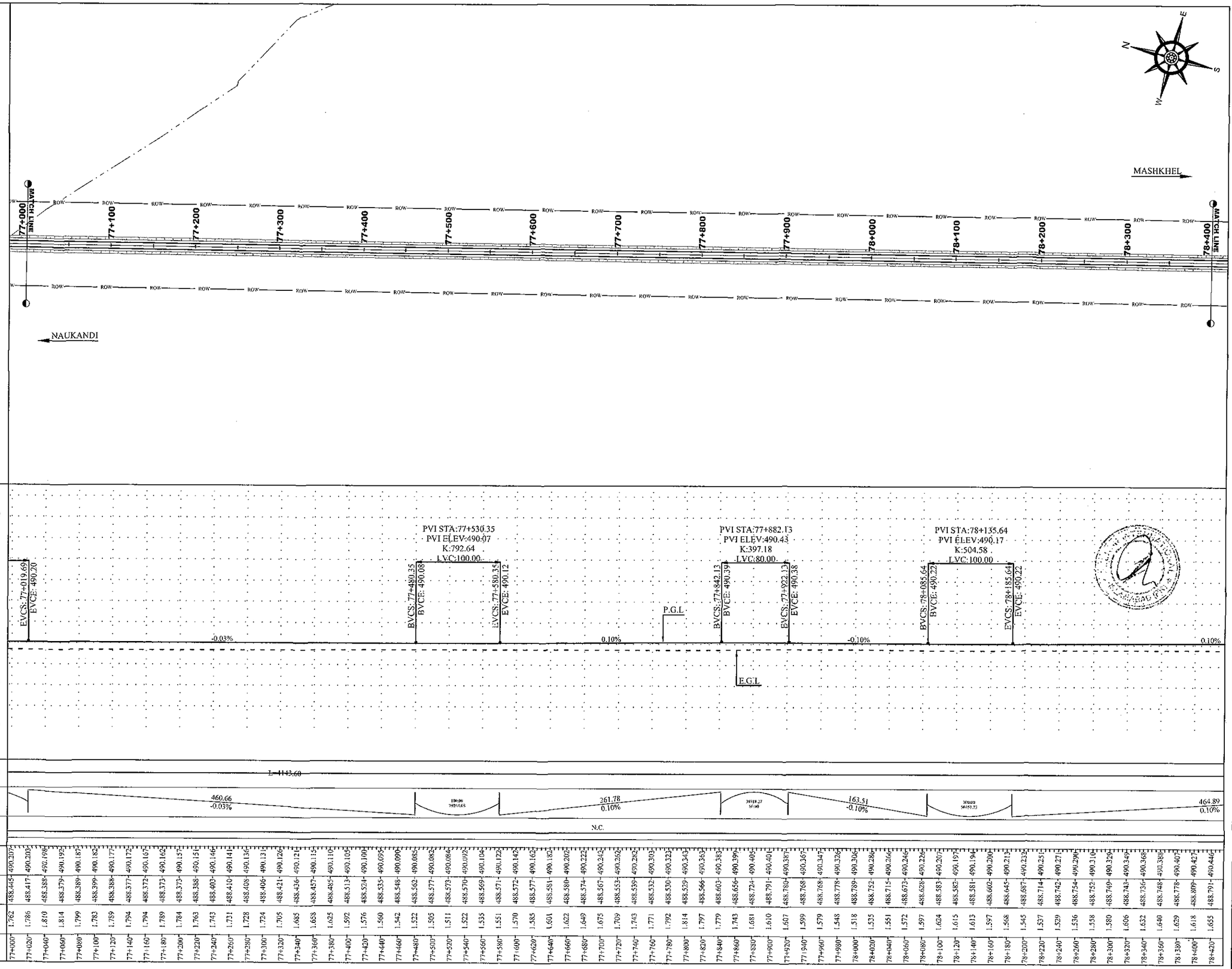
DESIGN BY: AYESHA SHABBIR	SHEET NO: 54 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/54


MASHKHEL
NAUKANDI
MATCH LINE
MATCH LINE
PROPOSED PIPE CULVERT
ROW
75+600
75+700
75+800
75+900
76+000
76+100
76+200
76+300
76+400
76+500
76+600
76+700
76+800
76+900
77+000


525
520
515
510
505
500
495
490
485
480
475
PVI STA:76+122.13
PVI ELEV:490.00
K:36325.37
LVC:100.00
BVCS: 76+072.13
BVCE: 489.98
EVCS: 76+172.13
EVCE: 490.01
PVI STA:76+969.69
PVI ELEV:490.22
K:1940.96
LVC:100.00
BVCS: 76+919.69
BVCE: 490.20
EVCS: 77+019.69
EVCE: 490.20
P.G.L
E.G.L
0.02%
0.03%
PROPOSED PIPE CULVERT
REFER TO LIST OF STRUCTURE

| | | |



NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 1.5 (CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

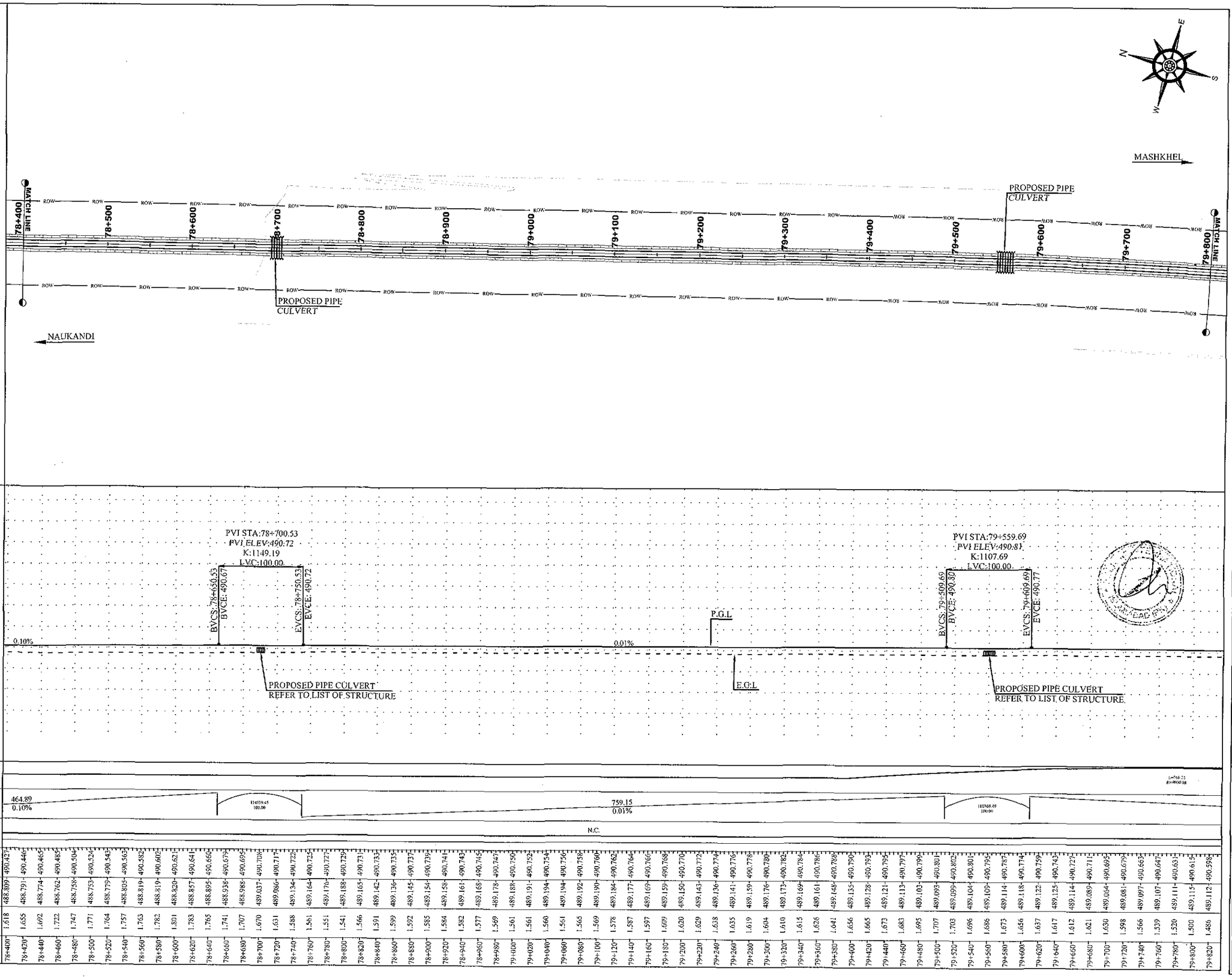
CONSULTANT :
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
PLAN & PROFILE
KM 77+000 TO 78+400

DESIGN BY: AYESHA SHABBIR	SHEET NO: 56 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/P/56

CH	PGL	NSL	LD
77+000	490.207	488.445	1.762
77+020	490.203	488.417	1.786
77+040	490.198	488.388	1.810
77+060	490.193	488.379	1.814
77+080	490.187	488.389	1.799
77+100	490.182	488.399	1.783
77+120	490.177	488.388	1.789
77+140	490.172	488.377	1.794
77+160	490.167	488.372	1.794
77+180	490.162	488.373	1.789
77+200	490.157	488.373	1.784
77+220	490.151	488.388	1.763
77+240	490.146	488.403	1.743
77+260	490.141	488.410	1.731
77+280	490.136	488.408	1.728
77+300	490.131	488.406	1.724
77+320	490.126	488.421	1.705
77+340	490.121	488.436	1.685
77+360	490.115	488.457	1.658
77+380	490.110	488.485	1.625
77+400	490.103	488.511	1.592
77+420	490.100	488.524	1.576
77+440	490.095	488.535	1.560
77+460	490.090	488.548	1.542
77+480	490.085	488.562	1.522
77+500	490.080	488.577	1.505
77+520	490.084	488.573	1.511
77+540	490.092	488.570	1.522
77+560	490.104	488.569	1.535
77+580	490.122	488.571	1.551
77+600	490.142	488.572	1.570
77+620	490.162	488.577	1.585
77+640	490.182	488.581	1.601
77+660	490.202	488.580	1.622
77+680	490.222	488.574	1.649
77+700	490.242	488.567	1.675
77+720	490.262	488.553	1.709
77+740	490.282	488.539	1.743
77+760	490.303	488.532	1.771
77+780	490.323	488.530	1.792
77+800	490.343	488.529	1.814
77+820	490.363	488.566	1.797
77+840	490.383	488.603	1.779
77+860	490.390	488.656	1.743
77+880	490.405	488.724	1.681
77+900	490.401	488.791	1.610
77+920	490.387	488.780	1.607
77+940	490.367	488.768	1.599
77+960	490.347	488.768	1.579
77+980	490.326	488.778	1.548
78+000	490.306	488.789	1.518
78+020	490.286	488.752	1.535
78+040	490.266	488.715	1.551
78+060	490.246	488.673	1.572
78+080	490.226	488.628	1.597
78+100	490.207	488.583	1.624
78+120	490.197	488.582	1.615
78+140	490.194	488.581	1.613
78+160	490.200	488.602	1.597
78+180	490.213	488.645	1.568
78+200	490.233	488.687	1.545
78+220	490.251	488.714	1.537
78+240	490.271	488.742	1.529
78+260	490.290	488.754	1.536
78+280	490.310	488.752	1.558
78+300	490.329	488.749	1.580
78+320	490.349	488.743	1.606
78+340	490.368	488.736	1.632
78+360	490.388	488.748	1.640
78+380	490.407	488.778	1.629
78+400	490.427	488.809	1.618
78+420	490.446	488.791	1.655



NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

CENTER LINE	
ROAD EDGE	
SHOULDER EDGE	
P.G.L	
E.G.L	
BUILDING	
CANAL	
TREE	
PROPOSED BOX CULVERT	1 - 3.5 X 1.5 (CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

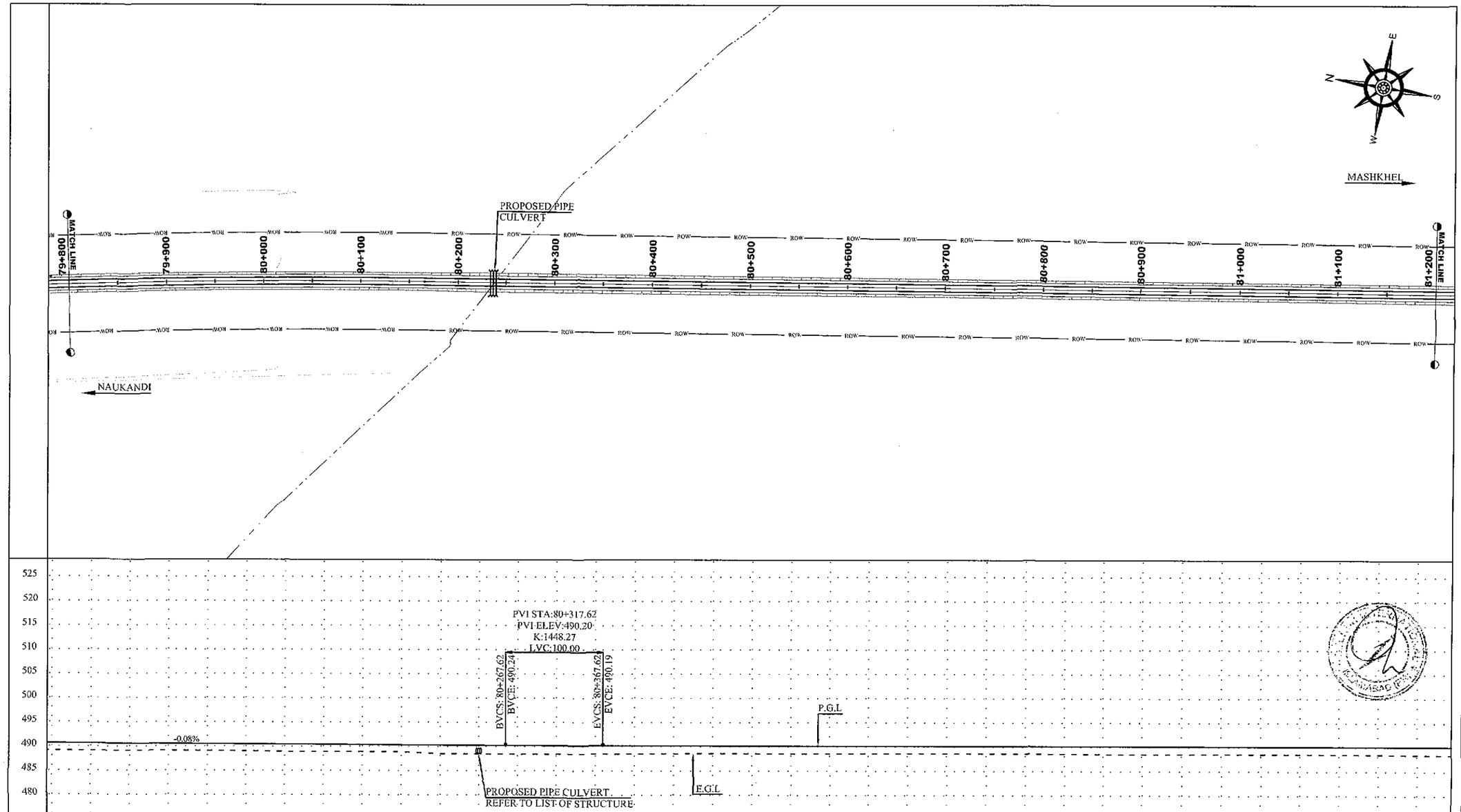
PLAN & PROFILE
KM 78+400 TO 79+800

DESIGN BY: AYESHA SHABBIR	SHEET NO: 57 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/57

CH	PGL	NSL	LD
78+400	490.427	488.809	1.618
78+420	490.446	488.791	1.655
78+440	490.465	488.774	1.692
78+460	490.485	488.762	1.722
78+480	490.504	488.758	1.747
78+500	490.524	488.753	1.771
78+520	490.543	488.779	1.764
78+540	490.563	488.805	1.757
78+560	490.582	488.819	1.763
78+580	490.602	488.819	1.782
78+600	490.621	488.820	1.801
78+620	490.641	488.857	1.783
78+640	490.660	488.895	1.765
78+660	490.679	488.938	1.741
78+680	490.695	488.988	1.707
78+700	490.709	489.037	1.670
78+720	490.717	489.086	1.631
78+740	490.725	489.134	1.588
78+760	490.725	489.164	1.561
78+780	490.727	489.176	1.551
78+800	490.729	489.188	1.541
78+820	490.731	489.165	1.566
78+840	490.735	489.142	1.591
78+860	490.735	489.136	1.599
78+880	490.737	489.145	1.592
78+900	490.739	489.154	1.585
78+920	490.741	489.158	1.584
78+940	490.743	489.161	1.582
78+960	490.745	489.168	1.577
78+980	490.747	489.178	1.569
79+000	490.750	489.189	1.561
79+020	490.752	489.191	1.561
79+040	490.754	489.194	1.560
79+060	490.756	489.194	1.561
79+080	490.758	489.192	1.565
79+100	490.760	489.190	1.569
79+120	490.762	489.184	1.578
79+140	490.764	489.177	1.587
79+160	490.766	489.169	1.597
79+180	490.768	489.159	1.609
79+200	490.770	489.150	1.620
79+220	490.772	489.143	1.629
79+240	490.774	489.136	1.638
79+260	490.776	489.141	1.635
79+280	490.778	489.159	1.619
79+300	490.780	489.176	1.604
79+320	490.782	489.172	1.610
79+340	490.784	489.169	1.615
79+360	490.786	489.161	1.626
79+380	490.789	489.148	1.641
79+400	490.791	489.135	1.656
79+420	490.793	489.128	1.665
79+440	490.795	489.121	1.673
79+460	490.797	489.113	1.683
79+480	490.799	489.103	1.695
79+500	490.801	489.093	1.707
79+520	490.802	489.099	1.703
79+540	490.801	489.104	1.696
79+560	490.799	489.113	1.686
79+580	490.787	489.114	1.673
79+600	490.774	489.118	1.656
79+620	490.759	489.122	1.637
79+640	490.743	489.125	1.617
79+660	490.727	489.114	1.612
79+680	490.711	489.089	1.621
79+700	490.693	489.064	1.630
79+720	490.679	489.081	1.598
79+740	490.663	489.097	1.566
79+760	490.647	489.107	1.539
79+780	490.631	489.111	1.520
79+800	490.615	489.115	1.500
79+820	490.598	489.112	1.486



CH	PGL	NSL	LD
79+800	490.615	489.115	1.500
79+820	490.598	489.112	1.486
79+840	490.582	489.110	1.472
79+860	490.566	489.110	1.456
79+880	490.550	489.113	1.438
79+900	490.534	489.115	1.419
79+920	490.518	489.113	1.406
79+940	490.502	489.110	1.392
79+960	490.486	489.092	1.394
79+980	490.470	489.059	1.411
80+000	490.456	489.026	1.429
80+020	490.438	488.978	1.461
80+040	490.422	488.930	1.493
80+060	490.406	488.907	1.499
80+080	490.390	488.910	1.481
80+100	490.374	488.912	1.462
80+120	490.358	488.922	1.437
80+140	490.342	488.931	1.411
80+160	490.326	488.851	1.476
80+180	490.310	488.681	1.630
80+200	490.294	488.510	1.784
80+220	490.278	488.500	1.779
80+240	490.262	488.489	1.774
80+260	490.246	488.480	1.766
80+280	490.231	488.474	1.756
80+300	490.218	488.468	1.750
80+320	490.208	488.481	1.727
80+340	490.200	488.494	1.706
80+360	490.196	488.506	1.689
80+380	490.193	488.518	1.675
80+400	490.191	488.530	1.662
80+420	490.189	488.557	1.632
80+440	490.187	488.584	1.603
80+460	490.185	488.600	1.584
80+480	490.182	488.607	1.576
80+500	490.180	488.613	1.567
80+520	490.176	488.597	1.581
80+540	490.176	488.581	1.595
80+560	490.174	488.579	1.594
80+580	490.171	488.593	1.579
80+600	490.169	488.606	1.563
80+620	490.167	488.619	1.548
80+640	490.162	488.632	1.533
80+660	490.162	488.640	1.522
80+680	490.160	488.643	1.517
80+700	490.158	488.646	1.512
80+720	490.156	488.644	1.512
80+740	490.154	488.643	1.511
80+760	490.152	488.642	1.510
80+780	490.149	488.641	1.508
80+800	490.147	488.640	1.507
80+820	490.145	488.624	1.521
80+840	490.143	488.607	1.535
80+860	490.141	488.584	1.557
80+880	490.138	488.554	1.585
80+900	490.136	488.523	1.613
80+920	490.134	488.537	1.597
80+940	490.132	488.551	1.581
80+960	490.130	488.566	1.564
80+980	490.127	488.581	1.546
81+000	490.125	488.597	1.529
81+020	490.123	488.590	1.533
81+040	490.121	488.582	1.538
81+060	490.119	488.580	1.539
81+080	490.116	488.581	1.535
81+100	490.114	488.582	1.532
81+120	490.112	488.570	1.542
81+140	490.110	488.557	1.553
81+160	490.108	488.533	1.575
81+180	490.105	488.498	1.608
81+200	490.103	488.463	1.640
81+220	490.101	488.464	1.637

NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 1.5 (CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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3rd Floor, Time Square Plaza,
1-B Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

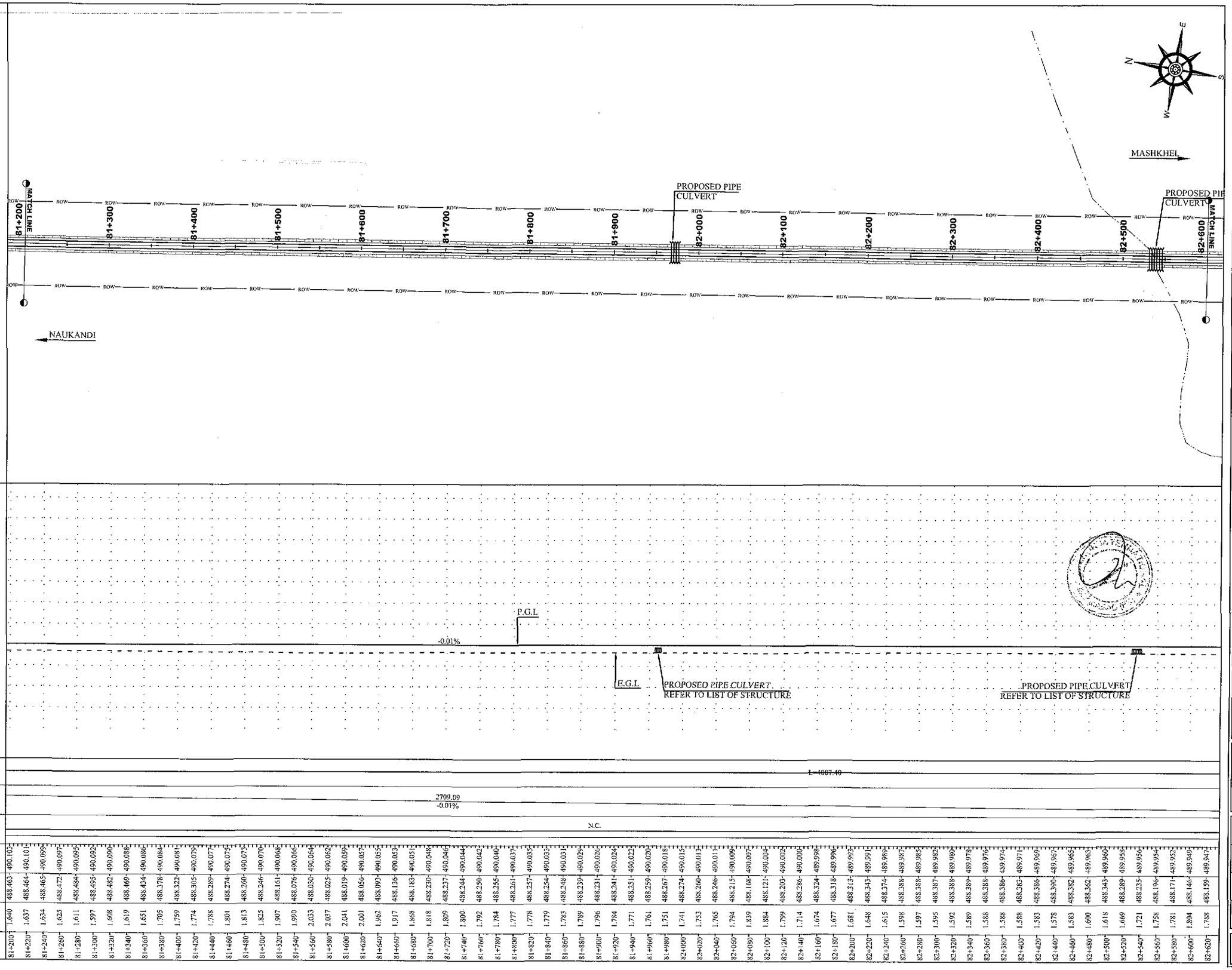
DRAWING TITLE:

PLAN & PROFILE
KM 79+800 TO 81+200

DESIGN BY: AYESHA SHABBIR	SHEET NO: 58 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV. 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/58



CH	LD	NSL	PGL
81+200	1.640	488.463	490.103
81+220	1.637	488.464	490.101
81+240	1.634	488.465	490.099
81+260	1.625	488.472	490.097
81+280	1.611	488.484	490.095
81+300	1.597	488.495	490.092
81+320	1.608	488.482	490.090
81+340	1.619	488.469	490.088
81+360	1.651	488.434	490.086
81+380	1.705	488.378	490.084
81+400	1.759	488.322	490.081
81+420	1.774	488.305	490.079
81+440	1.788	488.289	490.077
81+460	1.801	488.274	490.075
81+480	1.813	488.260	490.073
81+500	1.825	488.246	490.070
81+520	1.907	488.161	490.068
81+540	1.990	488.076	490.066
81+560	2.033	488.030	490.064
81+580	2.037	488.025	490.062
81+600	2.041	488.019	490.059
81+620	2.001	488.056	490.057
81+640	1.962	488.093	490.055
81+660	1.917	488.136	490.053
81+680	1.868	488.183	490.051
81+700	1.818	488.230	490.048
81+720	1.809	488.237	490.046
81+740	1.800	488.244	490.044
81+760	1.792	488.250	490.042
81+780	1.784	488.255	490.040
81+800	1.777	488.261	490.037
81+820	1.778	488.257	490.035
81+840	1.779	488.254	490.033
81+860	1.783	488.248	490.031
81+880	1.789	488.239	490.029
81+900	1.796	488.231	490.026
81+920	1.784	488.241	490.024
81+940	1.771	488.251	490.022
81+960	1.761	488.259	490.020
81+980	1.751	488.267	490.018
82+000	1.741	488.274	490.015
82+020	1.753	488.260	490.013
82+040	1.765	488.246	490.011
82+060	1.794	488.215	490.009
82+080	1.839	488.168	490.007
82+100	1.884	488.121	490.004
82+120	1.799	488.203	490.002
82+140	1.714	488.286	490.000
82+160	1.674	488.324	489.998
82+180	1.677	488.318	489.996
82+200	1.681	488.313	489.993
82+220	1.648	488.343	489.991
82+240	1.615	488.374	489.989
82+260	1.598	488.388	489.987
82+280	1.597	488.388	489.985
82+300	1.595	488.387	489.982
82+320	1.592	488.388	489.980
82+340	1.589	488.389	489.978
82+360	1.588	488.388	489.976
82+380	1.588	488.386	489.974
82+400	1.588	488.383	489.971
82+420	1.583	488.386	489.969
82 1440	1.578	488.390	489.967
82+460	1.583	488.382	489.965
82+480	1.600	488.362	489.963
82+500	1.618	488.343	489.960
82+520	1.669	488.289	489.958
82+540	1.721	488.235	489.956
82+560	1.758	488.196	489.954
82+580	1.781	488.171	489.952
82+600	1.804	488.146	489.949
82+620	1.788	488.159	489.947

NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 1.5 CELL - W X H

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

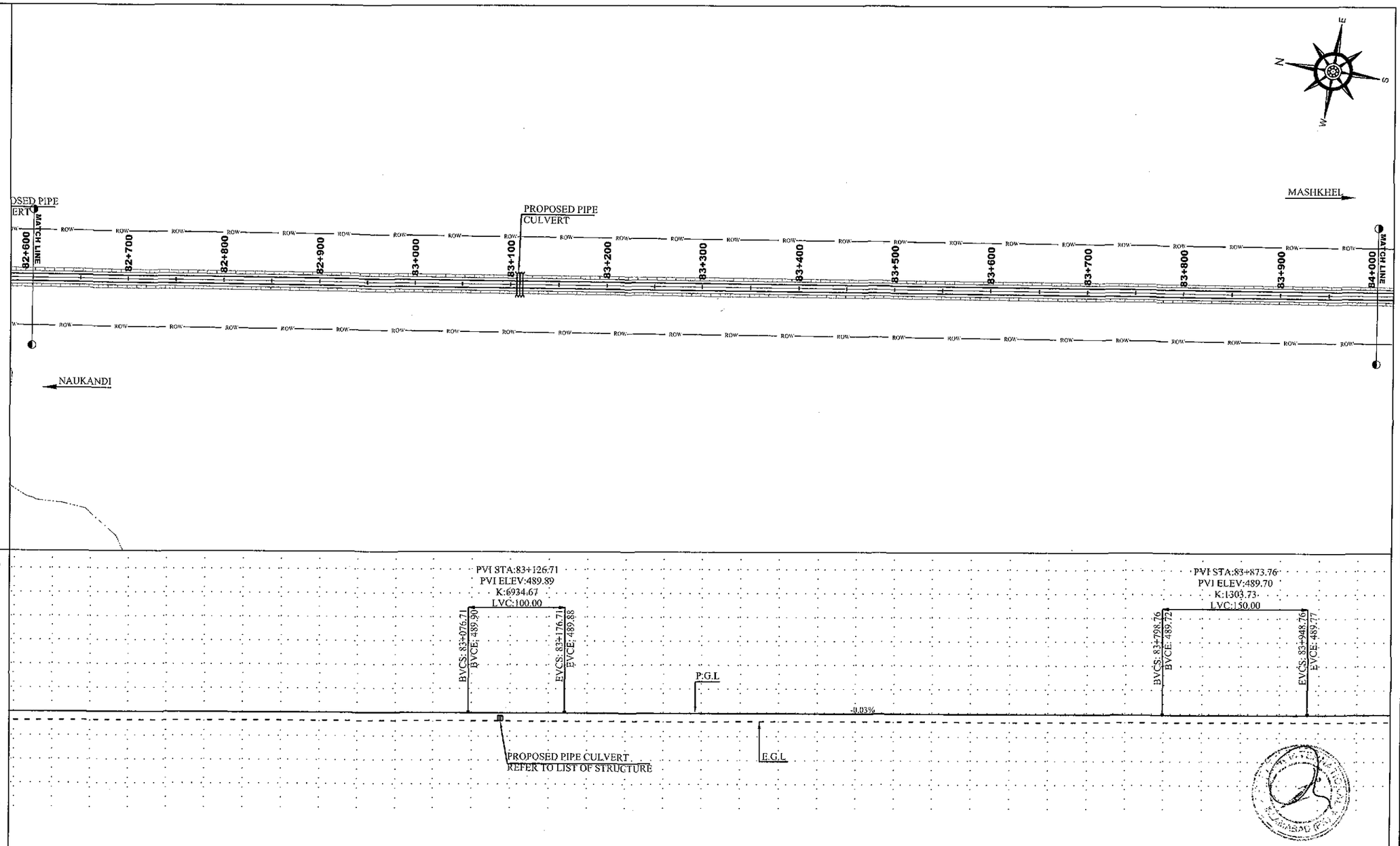
DRAWING TITLE:

PLAN & PROFILE
KM 81+200 TO 82+600

DESIGN BY: AYESHA SHABBIR	SHEET NO: 59 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/59



NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

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3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER, CONSULTANT & ARCHITECTS.

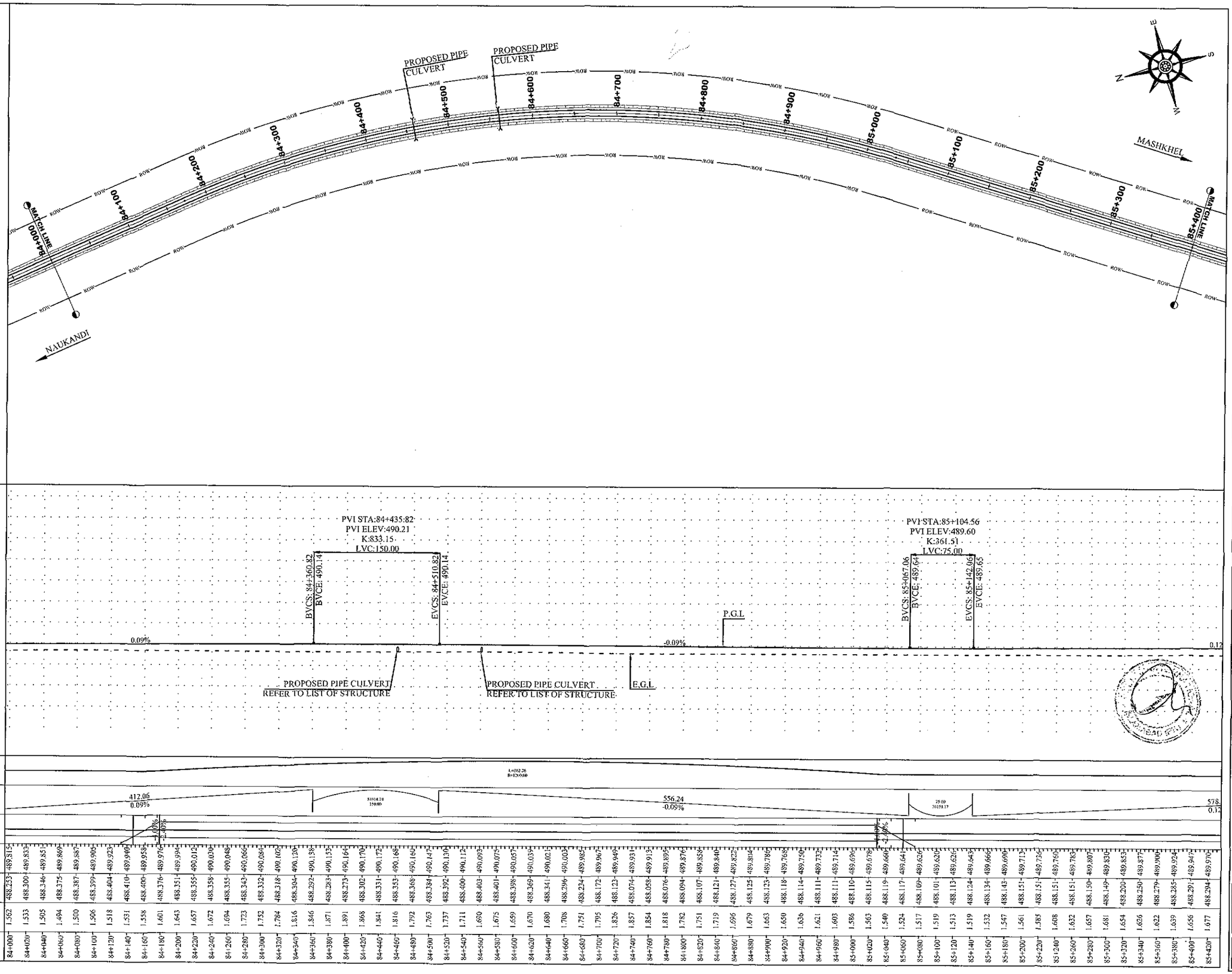
DRAWING TITLE:

PLAN & PROFILE
KM 82+600 TO 84+000

DESIGN BY: AYESHA SHABBIR	SHEET NO: 60 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/60

CH	PGL	NSL	LD
82+600	489.945	488.145	1.804
82+620	489.947	488.159	1.788
82+640	489.945	488.172	1.773
82+660	489.942	488.189	1.753
82+680	489.940	488.210	1.730
82+700	489.938	488.231	1.707
82+720	489.936	488.228	1.708
82+740	489.934	488.225	1.709
82+760	489.932	488.224	1.708
82+780	489.930	488.224	1.706
82+800	489.928	488.224	1.703
82+820	489.926	488.236	1.689
82+840	489.923	488.249	1.674
82+860	489.921	488.247	1.674
82+880	489.918	488.231	1.687
82+900	489.917	488.216	1.701
82+920	489.914	488.214	1.700
82+940	489.912	488.213	1.699
82+960	489.910	488.218	1.692
82+980	489.908	488.231	1.677
83+000	489.906	488.244	1.662
83+020	489.903	488.268	1.635
83+040	489.901	488.293	1.609
83+060	489.899	488.298	1.601
83+080	489.897	488.285	1.612
83+100	489.894	488.272	1.622
83+120	489.891	488.232	1.659
83+140	489.887	488.193	1.695
83+160	489.882	488.172	1.711
83+180	489.876	488.171	1.707
83+200	489.873	488.170	1.703
83+220	489.868	488.184	1.684
83+240	489.863	488.198	1.665
83+260	489.858	488.176	1.681
83+280	489.853	488.119	1.733
83+300	489.848	488.062	1.785
83+320	489.842	488.101	1.741
83+340	489.837	488.141	1.697
83+360	489.832	488.164	1.668
83+380	489.827	488.173	1.654
83+400	489.822	488.182	1.640
83+420	489.817	488.187	1.630
83+440	489.812	488.191	1.621
83+460	489.807	488.186	1.621
83+480	489.802	488.172	1.630
83+500	489.797	488.158	1.639
83+520	489.792	488.167	1.624
83+540	489.787	488.177	1.610
83+560	489.782	488.166	1.616
83+580	489.776	488.134	1.643
83+600	489.771	488.102	1.669
83+620	489.766	488.090	1.676
83+640	489.761	488.078	1.683
83+660	489.756	488.079	1.677
83+680	489.751	488.094	1.657
83+700	489.746	488.110	1.636
83+720	489.741	488.127	1.613
83+740	489.736	488.145	1.591
83+760	489.731	488.157	1.574
83+780	489.726	488.162	1.564
83+800	489.721	488.167	1.554
83+820	489.717	488.182	1.535
83+840	489.717	488.198	1.519
83+860	489.726	488.213	1.506
83+880	489.726	488.228	1.497
83+900	489.734	488.244	1.491
83+920	489.746	488.246	1.501
83+940	489.761	488.248	1.514
83+960	489.779	488.250	1.529
83+980	489.797	488.251	1.546
84+000	489.815	488.253	1.562
84+020	489.833	488.300	1.533



NOTES

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LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 15 / CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

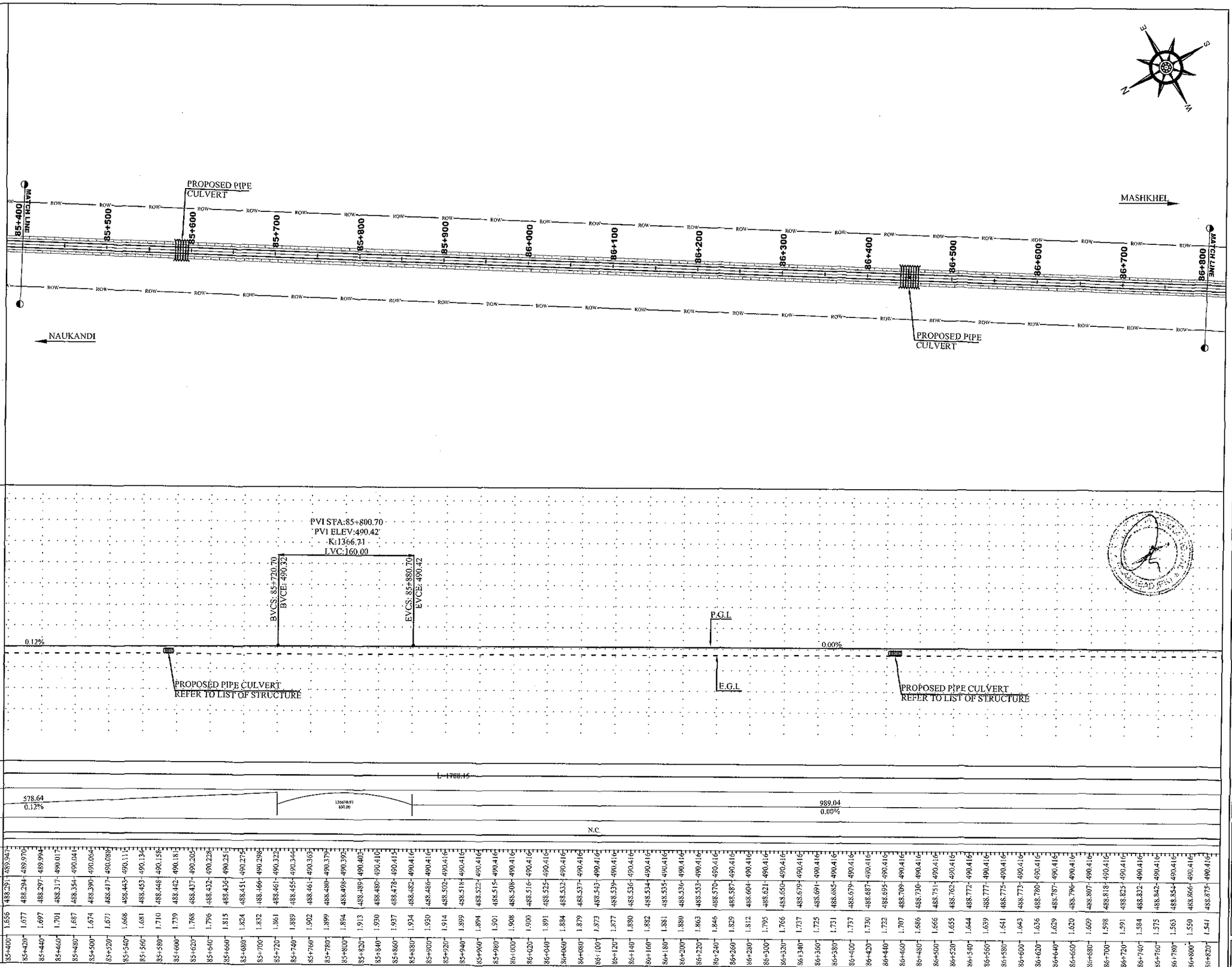
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

PLAN & PROFILE
KM 84+000 TO 85+400

DESIGN BY: AYESHA SHABBIR	SHEET NO: 61 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/61



CH	LD	NSL	PGL
85+400	1.656	488.291	489.947
85+420	1.677	488.294	489.970
85+440	1.697	488.297	489.994
85+460	1.701	488.317	490.017
85+480	1.687	488.354	490.041
85+500	1.674	488.390	490.064
85+520	1.671	488.417	490.088
85+540	1.668	488.443	490.111
85+560	1.681	488.453	490.134
85+580	1.710	488.448	490.158
85+600	1.739	488.442	490.181
85+620	1.768	488.437	490.205
85+640	1.796	488.432	490.228
85+660	1.815	488.436	490.251
85+680	1.824	488.451	490.275
85+700	1.832	488.466	490.298
85+720	1.861	488.461	490.322
85+740	1.889	488.455	490.345
85+760	1.902	488.461	490.369
85+780	1.899	488.480	490.392
85+800	1.894	488.498	490.416
85+820	1.913	488.489	490.402
85+840	1.930	488.480	490.410
85+860	1.937	488.478	490.415
85+880	1.924	488.482	490.416
85+900	1.920	488.486	490.416
85+920	1.914	488.502	490.416
85+940	1.899	488.518	490.416
85+960	1.894	488.522	490.416
85+980	1.901	488.515	490.416
86+000	1.908	488.508	490.416
86+020	1.900	488.516	490.416
86+040	1.891	488.525	490.416
86+060	1.884	488.532	490.416
86+080	1.879	488.537	490.416
86+100	1.873	488.543	490.416
86+120	1.877	488.539	490.416
86+140	1.880	488.536	490.416
86+160	1.882	488.534	490.416
86+180	1.881	488.535	490.416
86+200	1.880	488.536	490.416
86+220	1.863	488.553	490.416
86+240	1.846	488.570	490.416
86+260	1.829	488.587	490.416
86+280	1.812	488.604	490.416
86+300	1.795	488.621	490.416
86+320	1.766	488.650	490.416
86+340	1.737	488.679	490.416
86+360	1.725	488.691	490.416
86+380	1.731	488.685	490.416
86+400	1.737	488.679	490.416
86+420	1.730	488.687	490.416
86+440	1.722	488.695	490.416
86+460	1.707	488.709	490.416
86+480	1.686	488.730	490.416
86+500	1.666	488.751	490.416
86+520	1.655	488.762	490.416
86+540	1.644	488.772	490.416
86+560	1.639	488.777	490.416
86+580	1.641	488.775	490.416
86+600	1.643	488.773	490.416
86+620	1.636	488.780	490.416
86+640	1.629	488.787	490.416
86+660	1.620	488.796	490.416
86+680	1.609	488.807	490.416
86+700	1.598	488.818	490.416
86+720	1.591	488.825	490.416
86+740	1.584	488.832	490.416
86+760	1.575	488.842	490.416
86+780	1.563	488.854	490.416
86+800	1.550	488.866	490.416
86+820	1.541	488.875	490.416

NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

CENTER LINE
ROAD EDGE
SHOULDER EDGE
P.G.L
E.G.L
BUILDING
CANAL
TREE
PROPOSED BOX CULVERT
1 - 3.5 X 3.5
CELL - W X H

ABBREVIATIONS

PGL	*PROFILE GRADE LEVEL*
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	*HORIZONTAL CURVE DETAIL*
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

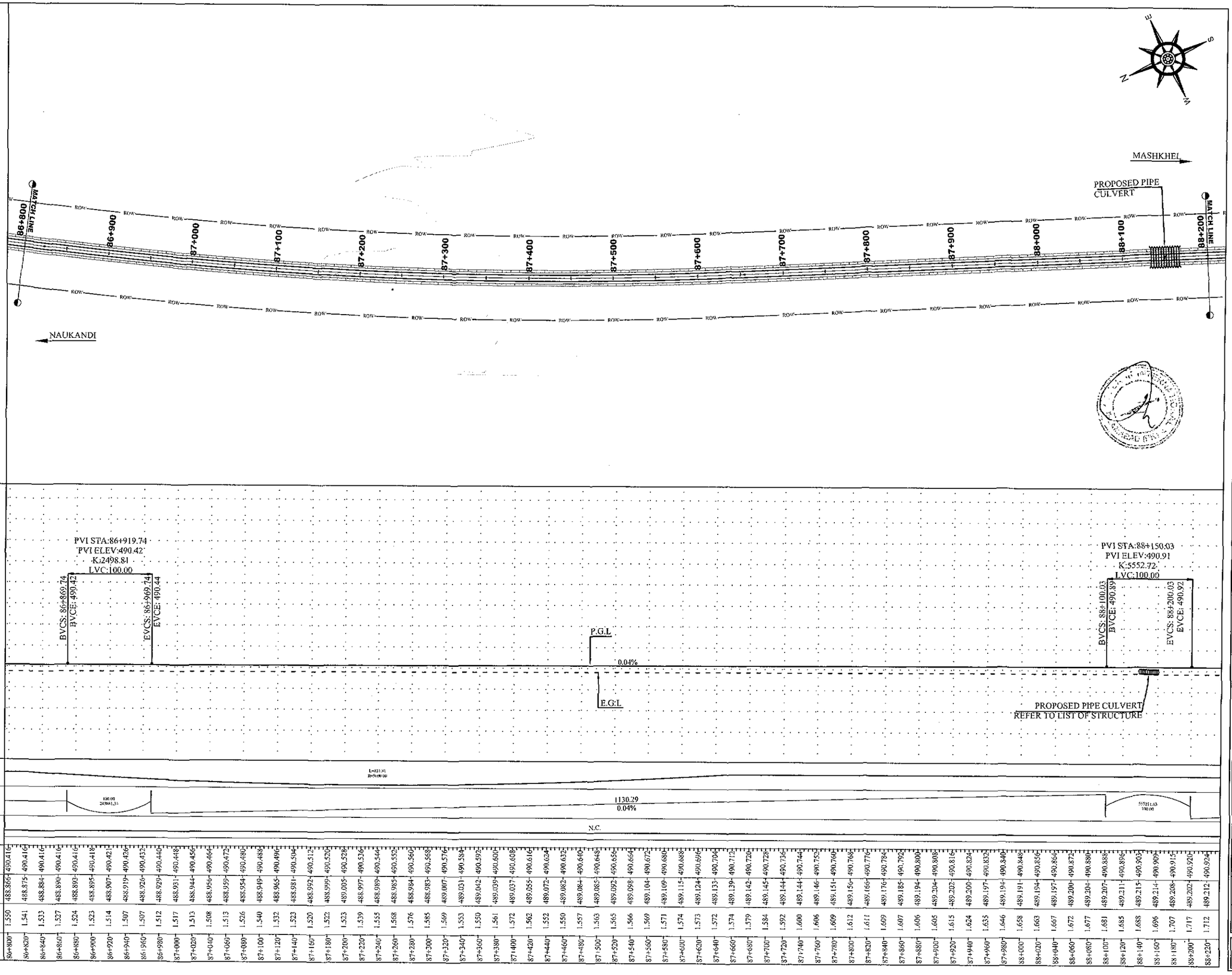
DRAWING TITLE:

PLAN & PROFILE
KM 85+400 TO 86+800

DESIGN BY: AYESHA SHABBIR	SHEET NO: 62 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/62



CH	LD	NSL	PGL
86+800	1.560	488.866	490.416
86+820	1.541	488.875	490.416
86+840	1.533	488.884	490.416
86+860	1.527	488.890	490.416
86+880	1.524	488.893	490.416
86+900	1.523	488.895	490.418
86+920	1.514	488.907	490.421
86+940	1.507	488.919	490.426
86+960	1.507	488.926	490.432
86+980	1.512	488.929	490.440
87+000	1.517	488.931	490.448
87+020	1.513	488.944	490.456
87+040	1.508	488.956	490.464
87+060	1.513	488.959	490.472
87+080	1.526	488.954	490.480
87+100	1.540	488.949	490.488
87+120	1.532	488.965	490.496
87+140	1.523	488.981	490.504
87+160	1.520	488.992	490.512
87+180	1.522	488.999	490.520
87+200	1.523	489.005	490.528
87+220	1.539	488.997	490.536
87+240	1.555	488.989	490.544
87+260	1.568	488.985	490.552
87+280	1.576	488.984	490.560
87+300	1.585	488.983	490.568
87+320	1.569	489.007	490.576
87+340	1.553	489.031	490.584
87+360	1.550	489.042	490.592
87+380	1.561	489.039	490.600
87+400	1.572	489.037	490.608
87+420	1.562	489.055	490.616
87+440	1.552	489.072	490.624
87+460	1.550	489.082	490.632
87+480	1.557	489.084	490.640
87+500	1.563	489.085	490.648
87+520	1.565	489.092	490.656
87+540	1.566	489.098	490.664
87+560	1.569	489.104	490.672
87+580	1.571	489.109	490.680
87+600	1.574	489.115	490.688
87+620	1.573	489.124	490.696
87+640	1.572	489.133	490.704
87+660	1.574	489.139	490.712
87+680	1.579	489.142	490.720
87+700	1.584	489.145	490.728
87+720	1.592	489.144	490.736
87+740	1.600	489.144	490.744
87+760	1.606	489.146	490.752
87+780	1.609	489.151	490.760
87+800	1.612	489.156	490.768
87+820	1.611	489.166	490.776
87+840	1.609	489.176	490.784
87+860	1.607	489.185	490.792
87+880	1.606	489.194	490.800
87+900	1.605	489.204	490.808
87+920	1.615	489.202	490.816
87+940	1.624	489.200	490.824
87+960	1.635	489.197	490.832
87+980	1.646	489.194	490.840
88+000	1.658	489.191	490.848
88+020	1.663	489.194	490.856
88+040	1.667	489.197	490.864
88+060	1.672	489.200	490.872
88+080	1.677	489.204	490.880
88+100	1.681	489.207	490.888
88+120	1.685	489.211	490.896
88+140	1.688	489.215	490.903
88+160	1.696	489.214	490.909
88+180	1.707	489.208	490.915
88+200	1.717	489.202	490.920
88+220	1.712	489.212	490.924

NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5, CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	*LEVEL DIFFERENCE*
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

PLAN & PROFILE
KM 86+800 TO 88+200

DESIGN BY: AYESHA SHABBIR	SHEET NO: 63 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:
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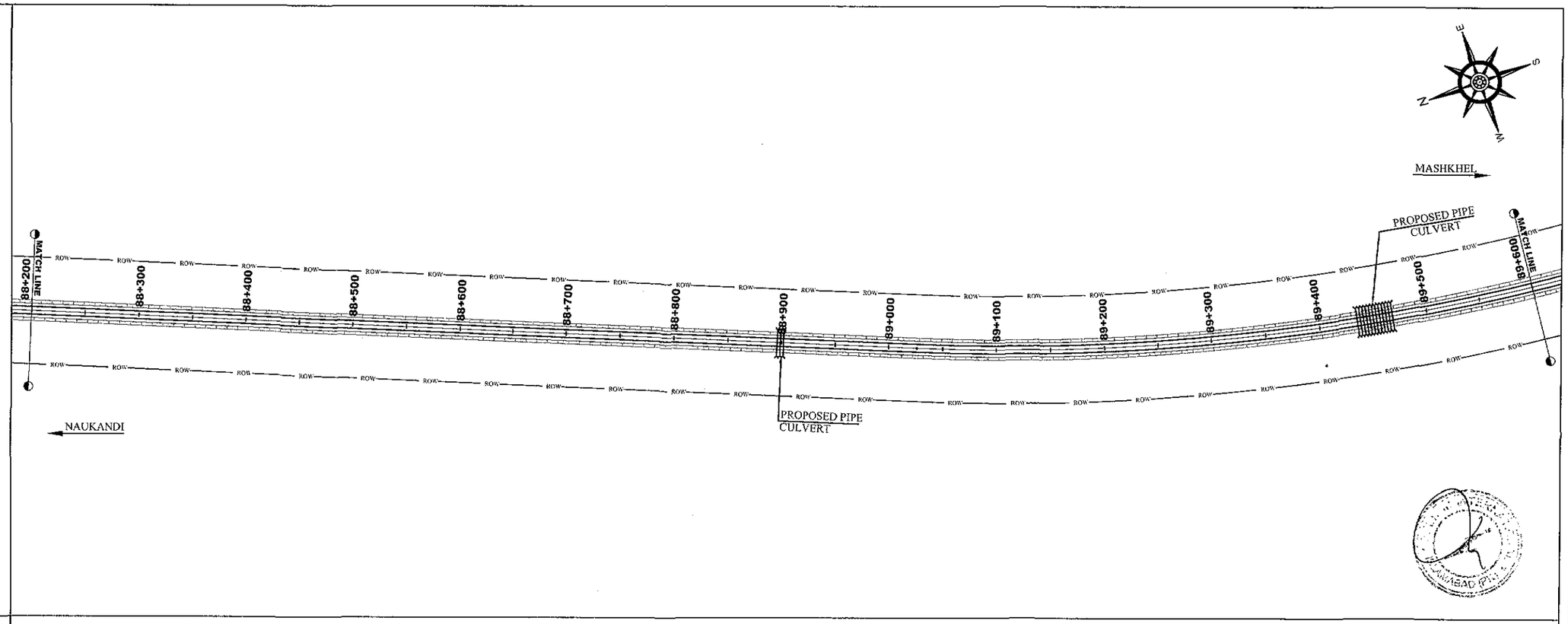

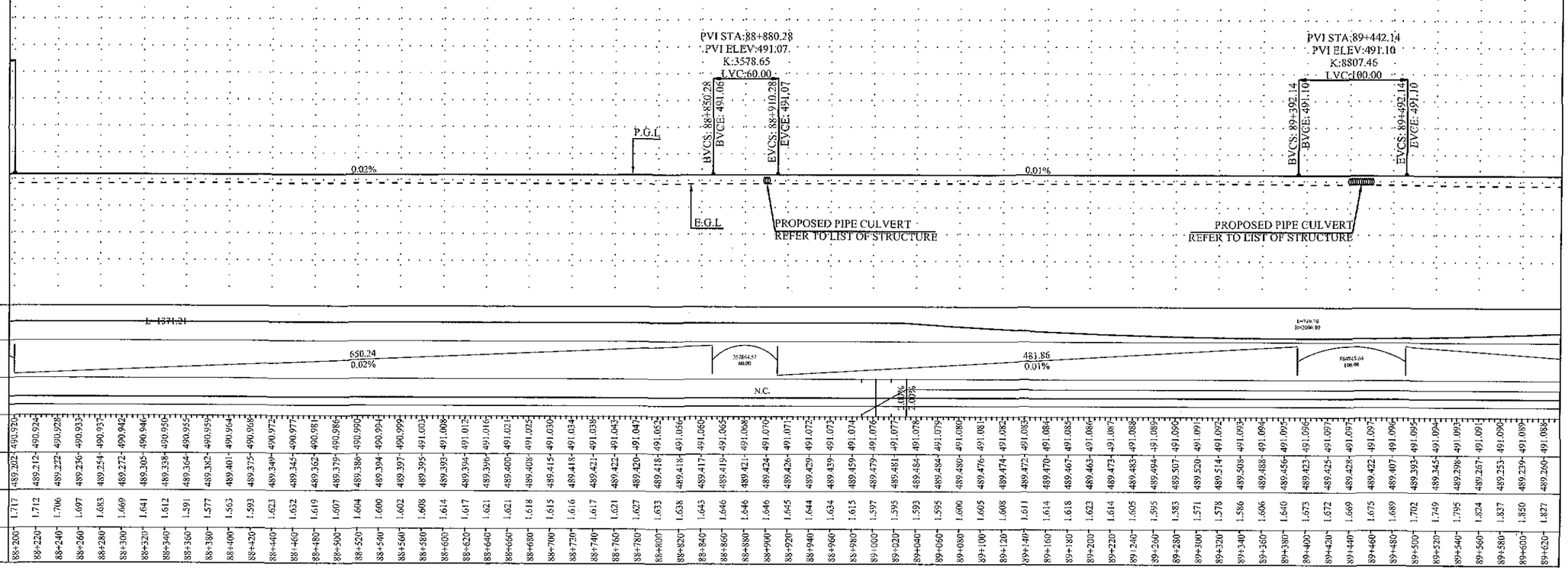

CH	PGL	NSL	LD
88+200	490.920	489.202	1.717
88+220	490.924	489.212	1.712
88+240	490.928	489.222	1.706
88+260	490.933	489.236	1.697
88+280	490.937	489.254	1.683
88+300	490.942	489.272	1.669
88+320	490.946	489.305	1.641
88+340	490.950	489.338	1.612
88+360	490.955	489.364	1.591
88+380	490.959	489.382	1.577
88+400	490.964	489.401	1.563
88+420	490.968	489.375	1.593
88+440	490.972	489.349	1.623
88+460	490.977	489.345	1.632
88+480	490.981	489.362	1.619
88+500	490.986	489.379	1.607
88+520	490.990	489.386	1.604
88+540	490.994	489.394	1.600
88+560	490.999	489.397	1.602
88+580	491.003	489.395	1.608
88+600	491.008	489.393	1.614
88+620	491.012	489.394	1.617
88+640	491.016	489.396	1.621
88+660	491.021	489.400	1.621
88+680	491.025	489.408	1.618
88+700	491.030	489.415	1.615
88+720	491.034	489.418	1.616
88+740	491.038	489.421	1.617
88+760	491.043	489.422	1.621
88+780	491.047	489.420	1.627
88+800	491.052	489.418	1.633
88+820	491.056	489.418	1.638
88+840	491.060	489.417	1.643
88+860	491.065	489.419	1.646
88+880	491.068	489.421	1.646
88+900	491.070	489.424	1.646
88+920	491.071	489.426	1.645
88+940	491.072	489.429	1.644
88+960	491.073	489.439	1.634
88+980	491.074	489.459	1.615
89+000	491.076	489.479	1.597
89+020	491.077	489.481	1.595
89+040	491.078	489.484	1.593
89+060	491.079	489.484	1.595
89+080	491.080	489.480	1.600
89+100	491.081	489.476	1.605
89+120	491.082	489.474	1.608
89+140	491.083	489.472	1.611
89+160	491.084	489.470	1.614
89+180	491.085	489.467	1.618
89+200	491.086	489.463	1.623
89+220	491.087	489.473	1.614
89+240	491.088	489.483	1.605
89+260	491.089	489.494	1.595
89+280	491.090	489.507	1.583
89+300	491.091	489.520	1.571
89+320	491.092	489.514	1.578
89+340	491.093	489.508	1.586
89+360	491.094	489.488	1.606
89+380	491.095	489.456	1.640
89+400	491.096	489.423	1.673
89+420	491.097	489.425	1.672
89+440	491.097	489.428	1.669
89+460	491.097	489.422	1.675
89+480	491.096	489.407	1.689
89+500	491.095	489.393	1.702
89+520	491.094	489.345	1.749
89+540	491.093	489.298	1.795
89+560	491.091	489.267	1.824
89+580	491.090	489.253	1.837
89+600	491.089	489.239	1.850
89+620	491.088	489.260	1.827

NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 1.5 (CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
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CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

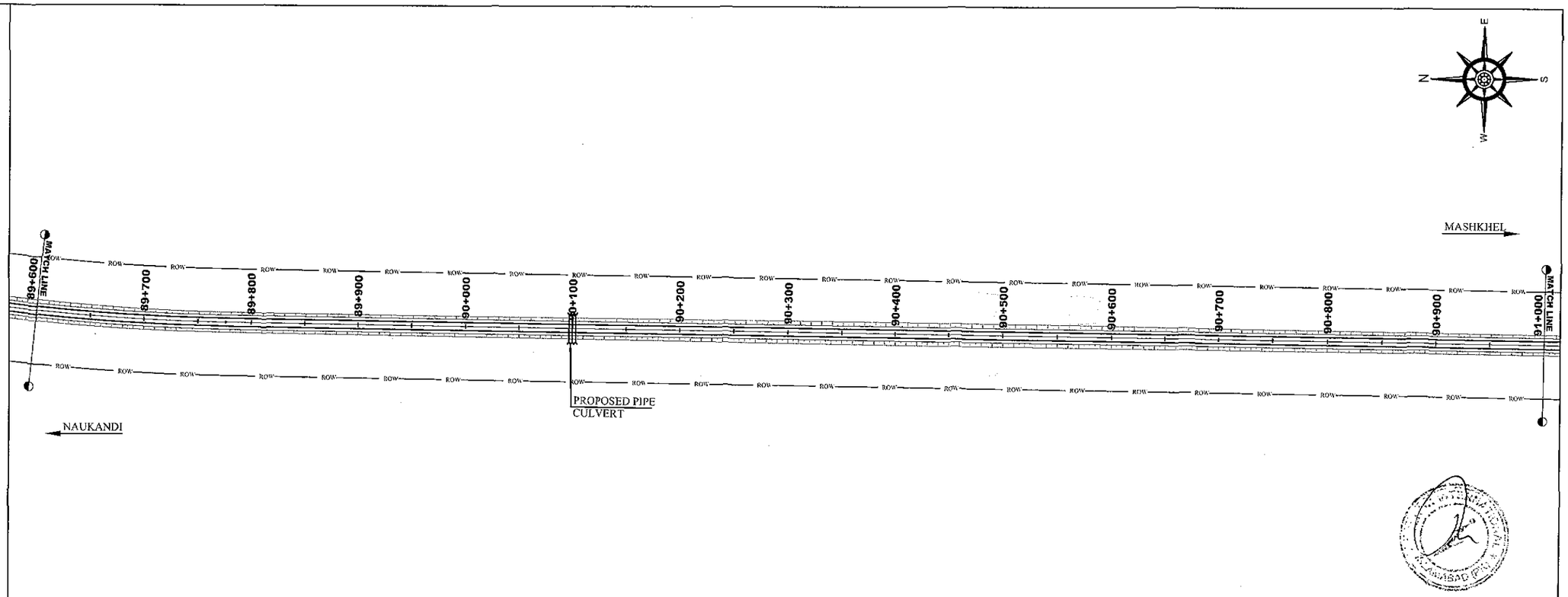
DRAWING TITLE:

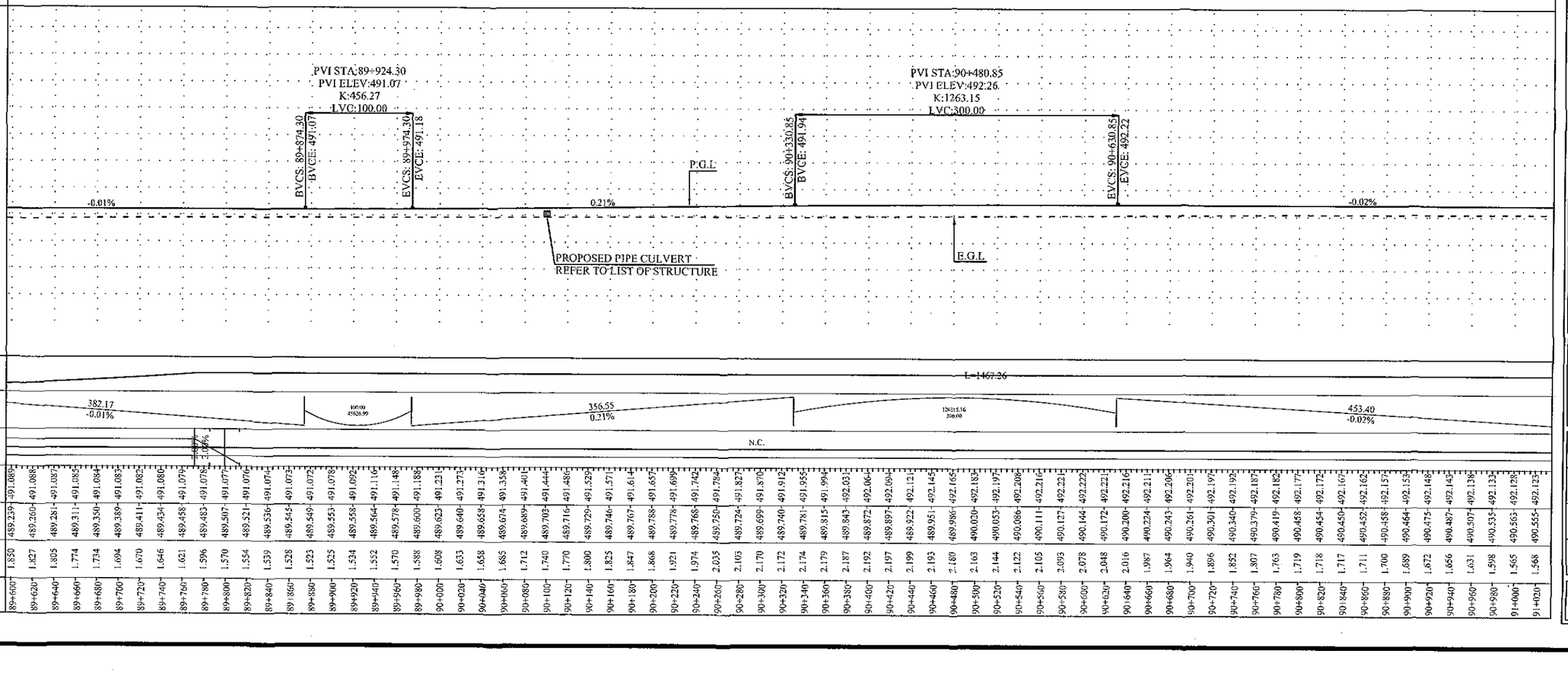
PLAN & PROFILE
KM 88+200 TO 89+600

DESIGN BY: AYESHA SHABBIR	SHEET NO: 64 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/64





CH	PGL	NSL	LD
89+600	491.088	489.239	1.850
89+620	491.088	489.260	1.827
89+640	491.087	489.281	1.805
89+660	491.085	489.311	1.774
89+680	491.084	489.350	1.734
89+700	491.083	489.389	1.694
89+720	491.082	489.411	1.670
89+740	491.080	489.434	1.646
89+760	491.079	489.458	1.621
89+780	491.078	489.483	1.596
89+800	491.077	489.507	1.570
89+820	491.076	489.521	1.554
89+840	491.074	489.536	1.539
89+860	491.073	489.545	1.528
89+880	491.072	489.549	1.523
89+900	491.070	489.545	1.525
89+920	491.069	489.535	1.534
89+940	491.116	489.564	1.552
89+960	491.148	489.578	1.570
89+980	491.188	489.600	1.588
90+000	491.231	489.623	1.608
90+020	491.273	489.640	1.633
90+040	491.316	489.658	1.658
90+060	491.358	489.674	1.685
90+080	491.401	489.689	1.712
90+100	491.444	489.703	1.740
90+120	491.486	489.716	1.770
90+140	491.529	489.729	1.800
90+160	491.571	489.746	1.825
90+180	491.614	489.767	1.847
90+200	491.657	489.788	1.868
90+220	491.699	489.778	1.921
90+240	491.742	489.768	1.974
90+260	491.784	489.750	2.035
90+280	491.827	489.724	2.103
90+300	491.870	489.699	2.170
90+320	491.912	489.740	2.172
90+340	491.955	489.781	2.174
90+360	491.994	489.815	2.179
90+380	492.031	489.843	2.187
90+400	492.064	489.872	2.192
90+420	492.094	489.897	2.197
90+440	492.121	489.922	2.199
90+460	492.145	489.951	2.193
90+480	492.165	489.986	2.180
90+500	492.183	490.020	2.163
90+520	492.197	490.053	2.144
90+540	492.208	490.086	2.122
90+560	492.216	490.111	2.105
90+580	492.221	490.127	2.093
90+600	492.222	490.144	2.078
90+620	492.221	490.172	2.048
90+640	492.216	490.200	2.016
90+660	492.211	490.224	1.987
90+680	492.206	490.243	1.964
90+700	492.201	490.261	1.940
90+720	492.197	490.301	1.896
90+740	492.192	490.340	1.852
90+760	492.187	490.379	1.807
90+780	492.182	490.419	1.763
90+800	492.177	490.458	1.719
90+820	492.172	490.454	1.718
90+840	492.167	490.450	1.717
90+860	492.162	490.452	1.711
90+880	492.157	490.458	1.700
90+900	492.153	490.464	1.689
90+920	492.148	490.475	1.672
90+940	492.143	490.487	1.656
90+960	492.138	490.507	1.631
90+980	492.133	490.535	1.598
91+000	492.128	490.563	1.565
91+020	492.123	490.555	1.568

NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- *BUILDING*
- CANAL
- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 1.5 (CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

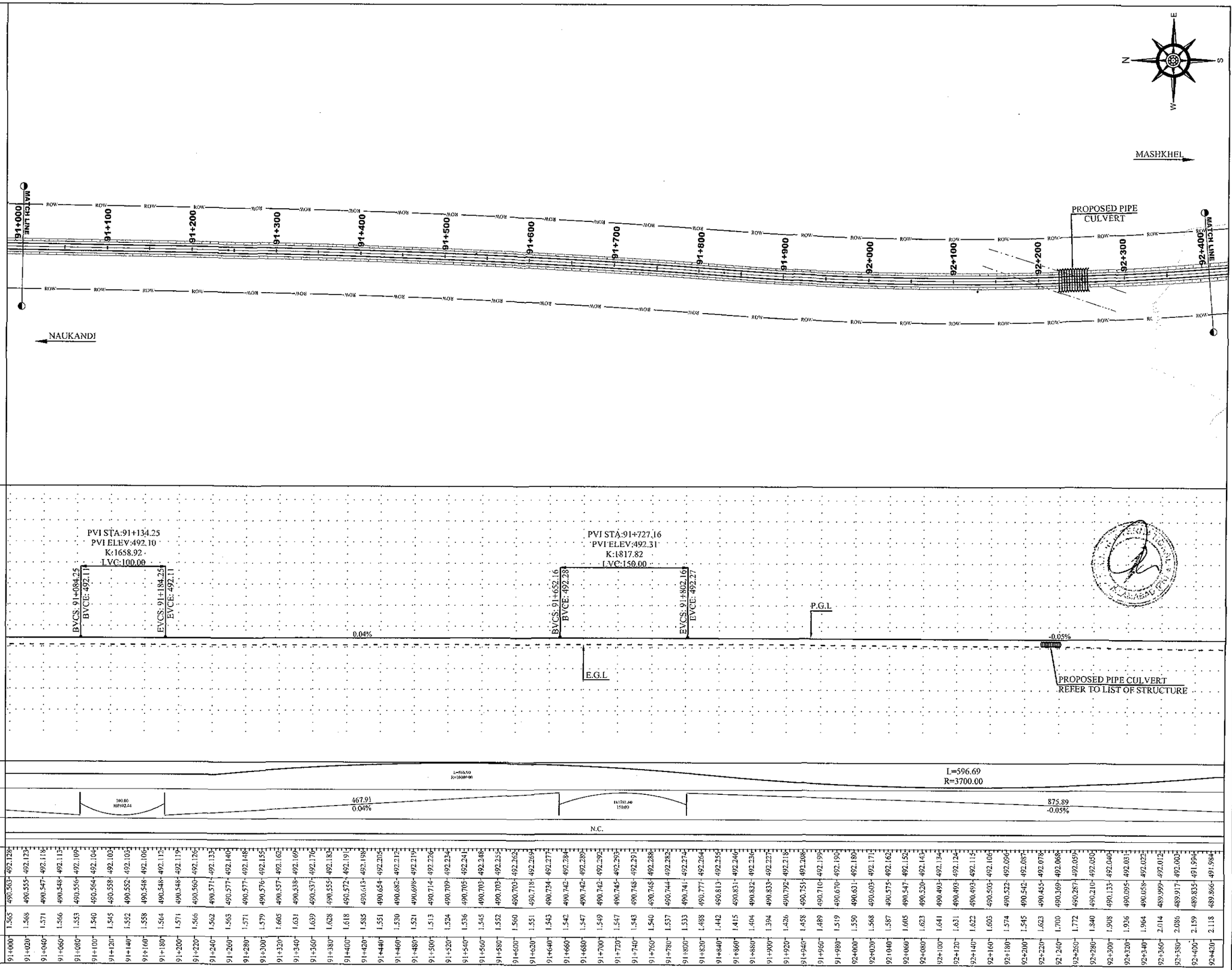
DRAWING TITLE:

PLAN & PROFILE
KM 89+600 TO 91+000

DESIGN BY: AYESHA SHABBIR	SHEET NO: 65 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/65



NOTES

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LEGEND

- CENTER LINE
- ROAD EDGE
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- P.G.L
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HCD	HORIZONTAL CURVE DETAIL
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REV.	REVISION/ISSUE	DATE
01		
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

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I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

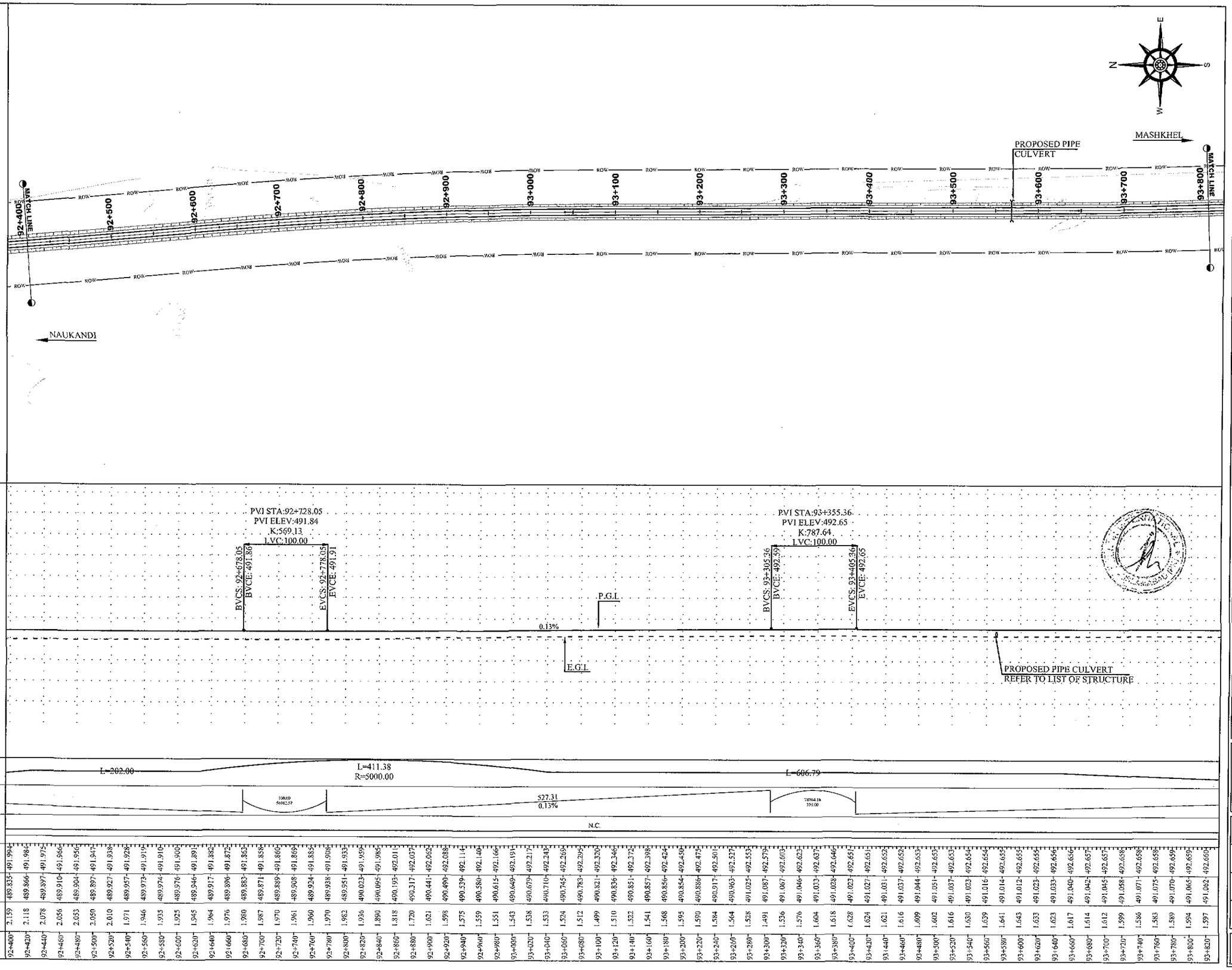
DRAWING TITLE:

PLAN & PROFILE
KM 91+000 TO 924+400

DESIGN BY: AYESHA SHABBIR	SHEET NO: 66 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/66

CH	PGL	NSL	LD
91+000	492.126	490.565	1.565
91+020	492.125	490.555	1.568
91+040	492.118	490.547	1.571
91+060	492.115	490.548	1.566
91+080	492.109	490.556	1.553
91+100	492.104	490.564	1.540
91+120	492.103	490.558	1.545
91+140	492.105	490.552	1.552
91+160	492.106	490.548	1.558
91+180	492.112	490.548	1.564
91+200	492.119	490.548	1.571
91+220	492.126	490.560	1.566
91+240	492.133	490.571	1.562
91+260	492.140	490.577	1.563
91+280	492.148	490.577	1.571
91+300	492.155	490.576	1.579
91+320	492.162	490.557	1.605
91+340	492.169	490.538	1.631
91+360	492.176	490.537	1.639
91+380	492.183	490.555	1.628
91+400	492.191	490.572	1.618
91+420	492.198	490.613	1.585
91+440	492.205	490.654	1.551
91+460	492.212	490.682	1.530
91+480	492.219	490.698	1.521
91+500	492.226	490.714	1.513
91+520	492.234	490.709	1.524
91+540	492.241	490.705	1.536
91+560	492.248	490.703	1.545
91+580	492.255	490.703	1.552
91+600	492.262	490.703	1.560
91+620	492.269	490.718	1.551
91+640	492.277	490.734	1.543
91+660	492.284	490.742	1.542
91+680	492.289	490.742	1.547
91+700	492.292	490.742	1.549
91+720	492.292	490.745	1.547
91+740	492.291	490.748	1.543
91+760	492.288	490.748	1.540
91+780	492.282	490.744	1.537
91+800	492.274	490.741	1.533
91+820	492.264	490.777	1.488
91+840	492.255	490.813	1.442
91+860	492.240	490.825	1.415
91+880	492.230	490.826	1.404
91+900	492.227	490.833	1.394
91+920	492.218	490.792	1.426
91+940	492.208	490.751	1.458
91+960	492.199	490.710	1.489
91+980	492.190	490.670	1.519
92+000	492.180	490.631	1.550
92+020	492.171	490.603	1.568
92+040	492.162	490.575	1.587
92+060	492.152	490.547	1.605
92+080	492.142	490.520	1.623
92+100	492.134	490.493	1.641
92+120	492.124	490.493	1.631
92+140	492.115	490.493	1.622
92+160	492.106	490.503	1.603
92+180	492.096	490.522	1.574
92+200	492.087	490.542	1.545
92+220	492.078	490.455	1.623
92 240	492.068	490.369	1.700
92+260	492.059	490.287	1.772
92+280	492.050	490.210	1.840
92+300	492.040	490.133	1.908
92+320	492.031	490.095	1.936
92+340	492.022	490.058	1.964
92+360	492.012	489.999	2.014
92+380	492.003	489.917	2.086
92+400	491.994	489.835	2.159
92+420	491.984	489.866	2.118



CH	PGL	NSL	LD
92+400	491.994	489.835	2.159
92+420	491.987	489.866	2.118
92+440	491.975	489.897	2.078
92+460	491.966	489.910	2.056
92+480	491.956	489.904	2.053
92+500	491.947	489.887	2.059
92+520	491.938	489.927	2.010
92+540	491.928	489.957	1.971
92+560	491.919	489.973	1.946
92+580	491.910	489.974	1.935
92+600	491.900	489.976	1.925
92+620	491.891	489.946	1.945
92+640	491.882	489.917	1.964
92+660	491.872	489.896	1.976
92+680	491.863	489.883	1.980
92+700	491.856	489.871	1.987
92+720	491.850	489.880	1.970
92+740	491.869	489.908	1.961
92+760	491.885	489.924	1.960
92+780	491.900	489.930	1.970
92+800	491.933	489.951	1.982
92+820	491.959	490.023	1.936
92+840	491.985	490.095	1.890
92+860	492.011	490.193	1.818
92+880	492.037	490.317	1.720
92+900	492.062	490.441	1.621
92+920	492.088	490.490	1.598
92+940	492.114	490.539	1.575
92+960	492.140	490.580	1.559
92+980	492.166	490.615	1.551
93+000	492.191	490.649	1.543
93+020	492.217	490.679	1.538
93+040	492.243	490.710	1.533
93+060	492.269	490.745	1.524
93+080	492.295	490.783	1.512
93+100	492.320	490.821	1.499
93+120	492.346	490.836	1.510
93+140	492.372	490.851	1.522
93+160	492.398	490.857	1.541
93+180	492.424	490.856	1.568
93+200	492.450	490.854	1.595
93+220	492.475	490.886	1.590
93+240	492.501	490.917	1.584
93+260	492.527	490.963	1.564
93+280	492.553	491.025	1.528
93+300	492.579	491.087	1.491
93+320	492.603	491.067	1.536
93+340	492.623	491.046	1.576
93+360	492.637	491.033	1.604
93+380	492.640	491.028	1.618
93+400	492.651	491.023	1.628
93+420	492.652	491.027	1.624
93+440	492.652	491.031	1.621
93+460	492.652	491.037	1.616
93+480	492.653	491.044	1.609
93+500	492.653	491.051	1.602
93+520	492.653	491.037	1.616
93+540	492.654	491.023	1.630
93+560	492.654	491.016	1.639
93+580	492.655	491.014	1.641
93+600	492.655	491.012	1.643
93+620	492.655	491.023	1.633
93+640	492.656	491.033	1.623
93+660	492.656	491.040	1.617
93+680	492.657	491.042	1.614
93+700	492.657	491.045	1.612
93+720	492.658	491.058	1.599
93+740	492.658	491.071	1.586
93+760	492.659	491.075	1.583
93+780	492.659	491.070	1.589
93+800	492.659	491.065	1.594
93+820	492.660	491.062	1.597

NOTES

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LEGEND

- CENTER LINE
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- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 3.5 CELL - W X H

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
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CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
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CONSULTANT :
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Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

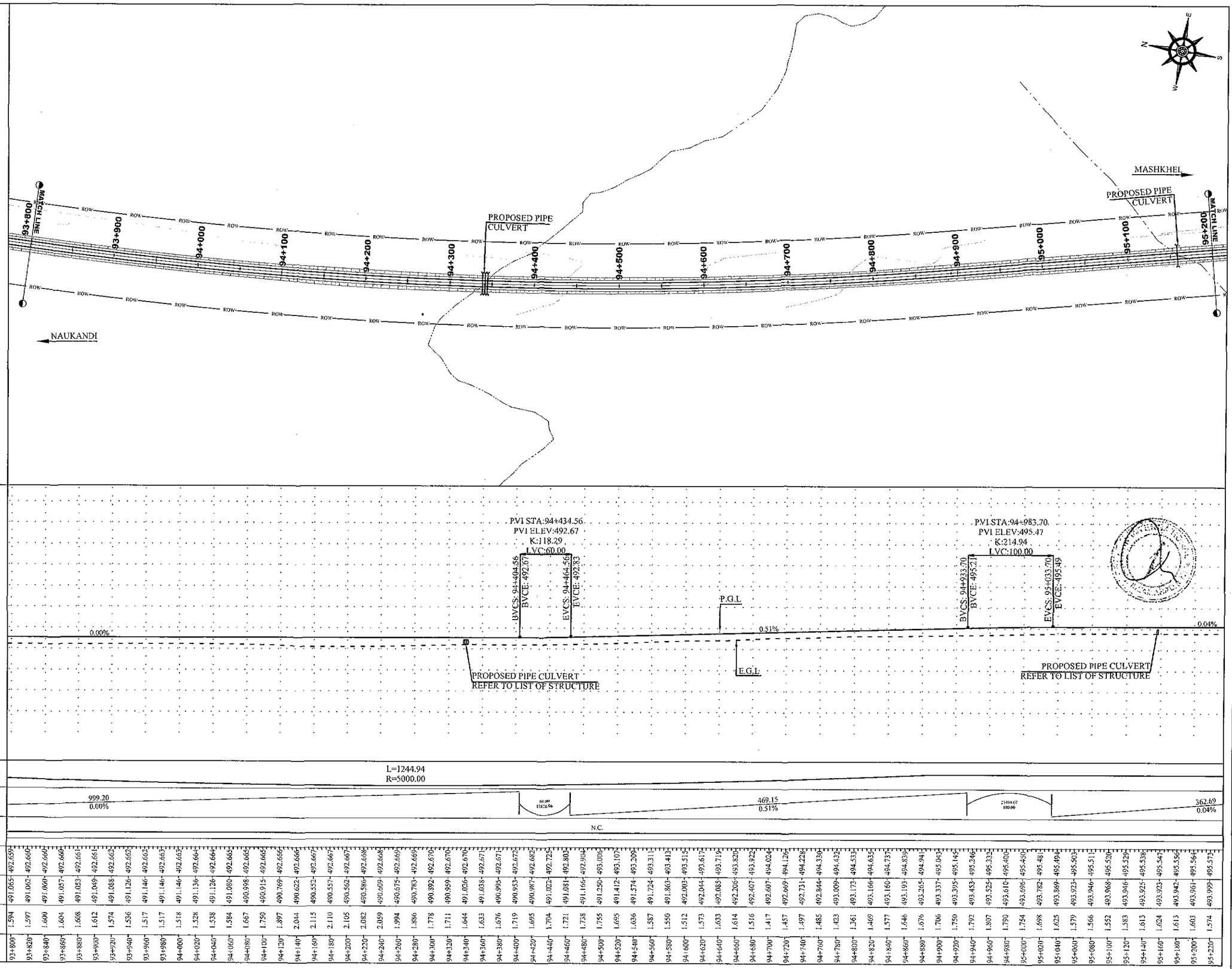
DRAWING TITLE:

PLAN & PROFILE
KM 92+400 TO 93+800

DESIGN BY: AYESHA SHABBIR	SHEET NO: 67 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/67



CH	PGL	NSL	LD
93+800	492.659	491.065	1.594
93+820	492.660	491.062	1.597
93+840	492.660	491.060	1.600
93+860	492.660	491.057	1.604
93+880	492.661	491.053	1.608
93+900	492.661	491.049	1.612
93+920	492.662	491.088	1.574
93+940	492.663	491.126	1.536
93+960	492.663	491.146	1.517
93+980	492.663	491.146	1.517
94+000	492.665	491.146	1.518
94+020	492.664	491.136	1.528
94+040	492.664	491.126	1.538
94+060	492.665	491.080	1.584
94+080	492.665	490.998	1.667
94+100	492.665	490.915	1.750
94+120	492.666	490.769	1.897
94+140	492.666	490.622	2.044
94+160	492.667	490.552	2.115
94+180	492.667	490.557	2.110
94+200	492.667	490.562	2.105
94+220	492.668	490.586	2.082
94+240	492.668	490.609	2.059
94+260	492.669	490.675	1.994
94+280	492.669	490.783	1.886
94+300	492.670	490.892	1.778
94+320	492.670	490.959	1.711
94+340	492.670	491.026	1.644
94+360	492.671	491.038	1.633
94+380	492.671	490.995	1.676
94+400	492.672	490.953	1.719
94+420	492.682	490.987	1.695
94+440	492.725	491.022	1.704
94+460	492.802	491.081	1.721
94+480	492.904	491.166	1.738
94+500	493.000	491.246	1.755
94+520	493.107	491.412	1.695
94+540	493.209	491.574	1.636
94+560	493.311	491.724	1.587
94+580	493.413	491.863	1.550
94+600	493.515	492.003	1.512
94+620	493.617	492.044	1.573
94+640	493.719	492.085	1.633
94+660	493.820	492.206	1.614
94+680	493.922	492.407	1.516
94+700	494.024	492.607	1.417
94+720	494.126	492.669	1.457
94+740	494.228	492.731	1.497
94+760	494.330	492.844	1.485
94+780	494.432	493.009	1.423
94+800	494.533	493.173	1.361
94+820	494.635	493.166	1.469
94+840	494.737	493.160	1.577
94+860	494.839	493.193	1.646
94+880	494.941	493.265	1.676
94+900	495.043	493.337	1.706
94+920	495.145	493.395	1.750
94+940	495.246	493.453	1.792
94+960	495.348	493.525	1.807
94+980	495.450	493.610	1.790
95+000	495.480	493.696	1.754
95+020	495.481	493.782	1.698
95+040	495.494	493.869	1.625
95+060	495.503	493.923	1.579
95+080	495.511	493.946	1.566
95+100	495.520	493.968	1.552
95+120	495.538	493.946	1.593
95+140	495.547	493.925	1.613
95+160	495.556	493.923	1.624
95+180	495.564	493.942	1.613
95+200	495.573	493.969	1.603
95+220			1.574

NOTES

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LEGEND

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- ROAD EDGE
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- P.G.L
- E.G.L
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ABBREVIATIONS

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REV.	REVISION/ISSUE	DATE
01		
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

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3rd Floor, Time Square Plaza,
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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

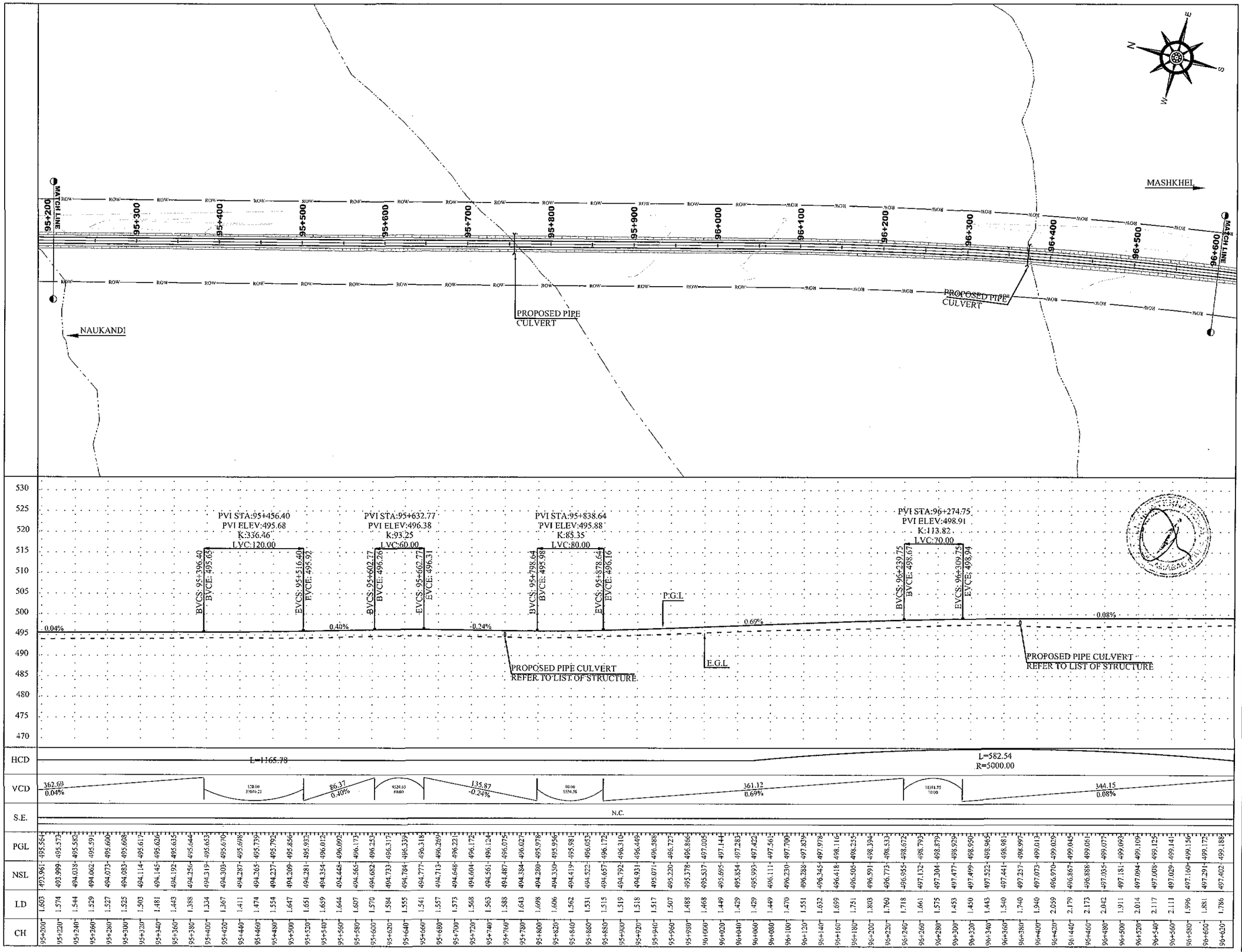
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

PLAN & PROFILE
KM 93+800 TO 95+200

DESIGN BY: AYESHA SHABBIR	SHEET NO: 68 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/68



NOTES

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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

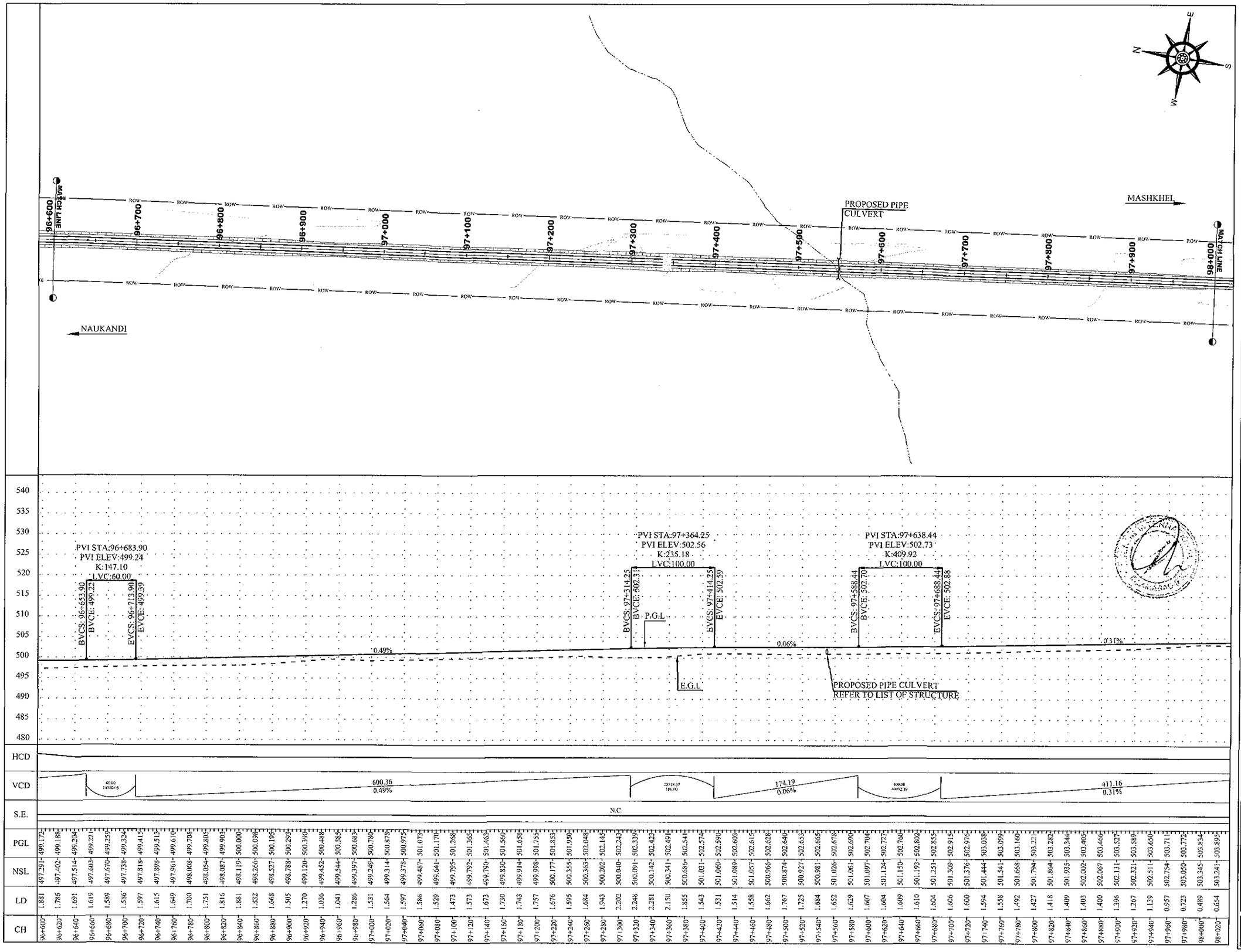
DRAWING TITLE:

PLAN & PROFILE
KM 95+200 TO 96+600

DESIGN BY: AYESHA SHABBIR	SHEET NO: 69 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV. 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/69

CH	LD	NSL	PGL	VCD	HCD
95+200	1.603	493.961	495.564	362.69 0.04%	L=1165.78
95+220	1.574	493.999	495.573		
95+240	1.544	494.038	495.582		
95+260	1.529	494.062	495.591		
95+280	1.527	494.073	495.600		
95+300	1.525	494.083	495.608		
95+320	1.503	494.114	495.617		
95+340	1.481	494.145	495.626		
95+360	1.443	494.192	495.635		
95+380	1.388	494.256	495.644		
95+400	1.334	494.319	495.653		
95+420	1.367	494.303	495.670		
95+440	1.411	494.287	495.698		
95+460	1.474	494.265	495.739		
95+480	1.554	494.237	495.792		
95+500	1.647	494.209	495.856		
95+520	1.651	494.281	495.932		
95+540	1.659	494.354	496.012		
95+560	1.644	494.448	496.092		
95+580	1.607	494.565	496.173		
95+600	1.570	494.682	496.252		
95+620	1.584	494.733	496.317		
95+640	1.555	494.784	496.339		
95+660	1.541	494.777	496.318		
95+680	1.557	494.713	496.269		
95+700	1.573	494.648	496.221		
95+720	1.568	494.604	496.172		
95+740	1.563	494.561	496.124		
95+760	1.588	494.487	496.075		
95+780	1.643	494.384	496.027		
95+800	1.698	494.280	495.978		
95+820	1.606	494.350	495.956		
95+840	1.562	494.419	495.981		
95+860	1.531	494.522	496.053		
95+880	1.515	494.657	496.172		
95+900	1.519	494.792	496.310		
95+920	1.518	494.931	496.449		
95+940	1.517	495.071	496.588		
95+960	1.507	495.220	496.727		
95+980	1.488	495.378	496.866		
96+000	1.468	495.537	497.005		
96+020	1.449	495.695	497.144		
96+040	1.429	495.854	497.283		
96+060	1.429	495.993	497.422		
96+080	1.449	496.111	497.561		
96+100	1.470	496.230	497.700		
96+120	1.551	496.288	497.839		
96+140	1.632	496.345	497.978		
96+160	1.699	496.418	498.116		
96+180	1.751	496.505	498.255		
96+200	1.803	496.591	498.394		
96+220	1.760	496.773	498.533		
96+240	1.718	496.955	498.672		
96+260	1.661	497.132	498.793		
96+280	1.575	497.304	498.879		
96+300	1.453	497.477	498.929		
96+320	1.450	497.499	498.950		
96+340	1.443	497.522	498.965		
96+360	1.540	497.441	498.981		
96+380	1.740	497.257	498.997		
96+400	1.940	497.073	499.013		
96+420	2.059	496.970	499.029		
96+440	2.179	496.867	499.045		
96+460	2.173	496.888	499.061		
96+480	2.042	497.035	499.077		
96+500	1.911	497.181	499.093		
96+520	2.014	497.094	499.109		
96+540	2.117	497.008	499.125		
96+560	2.111	497.029	499.141		
96+580	1.996	497.160	499.156		
96+600	1.881	497.291	499.172		
96+620	1.786	497.402	499.188		



NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- BUILDING
- CANAL
- TREE
- PROPOSED BOX CULVERT (1 - 3.5 X 1.5 CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEBRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT & ARCHITECTS.

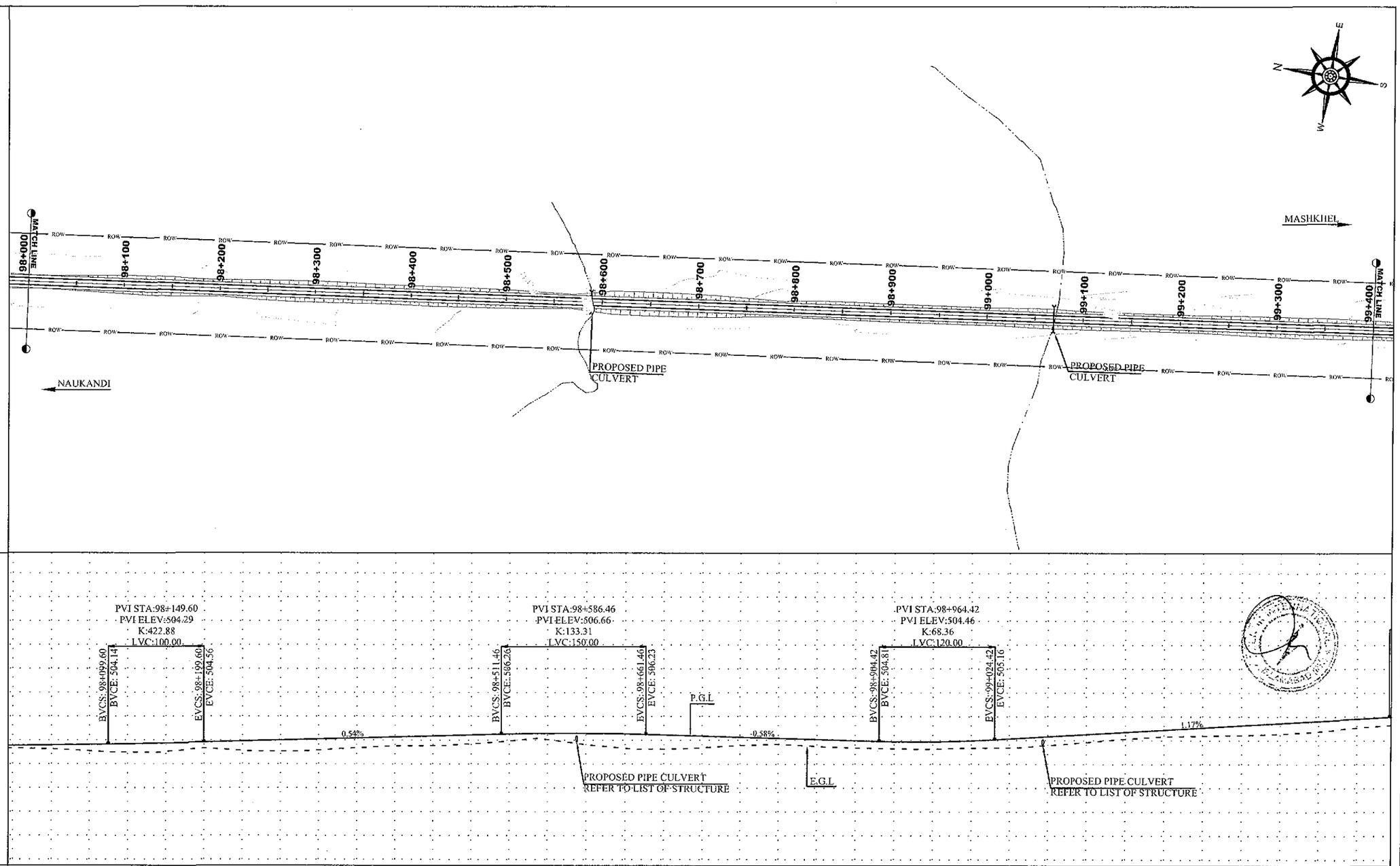
DRAWING TITLE:

PLAN & PROFILE
KM 96+600 TO 98+000

DESIGN BY: AYESHA SHABBIR	SHEET NO: 70 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/70

CH	PGL	NSL	LD
96+600	499.172	497.291	1.881
96+620	499.188	497.402	1.786
96+640	499.204	497.514	1.691
96+660	499.221	497.603	1.619
96+680	499.259	497.670	1.589
96+700	499.324	497.738	1.586
96+720	499.415	497.818	1.597
96+740	499.515	497.899	1.615
96+760	499.610	497.961	1.649
96+780	499.708	498.008	1.700
96+800	499.805	498.054	1.751
96+820	499.903	498.087	1.816
96+840	500.000	498.119	1.881
96+860	500.098	498.266	1.832
96+880	500.195	498.527	1.668
96+900	500.293	498.788	1.505
96+920	500.390	499.120	1.270
96+940	500.488	499.452	1.036
96+960	500.585	499.544	1.041
96+980	500.683	499.397	1.286
97+000	500.780	499.249	1.531
97+020	500.878	499.314	1.564
97+040	500.975	499.378	1.597
97+060	501.073	499.487	1.586
97+080	501.170	499.641	1.529
97+100	501.268	499.795	1.473
97+120	501.365	499.792	1.573
97+140	501.463	499.790	1.673
97+160	501.560	499.830	1.730
97+180	501.658	499.914	1.743
97+200	501.755	499.998	1.757
97+220	501.853	500.177	1.676
97+240	501.950	500.355	1.595
97+260	502.048	500.363	1.684
97+280	502.145	500.202	1.943
97+300	502.243	500.040	2.202
97+320	502.339	500.091	2.248
97+340	502.423	500.142	2.281
97+360	502.491	500.341	2.150
97+380	502.541	500.686	1.855
97+400	502.574	501.031	1.543
97+420	502.590	501.060	1.531
97+440	502.603	501.089	1.514
97+460	502.615	501.057	1.558
97+480	502.628	500.966	1.662
97+500	502.640	500.874	1.767
97+520	502.653	500.927	1.725
97+540	502.665	500.981	1.684
97+560	502.678	501.026	1.652
97+580	502.690	501.061	1.629
97+600	502.704	501.097	1.607
97+620	502.727	501.124	1.604
97+640	502.760	501.150	1.609
97+660	502.802	501.193	1.610
97+680	502.855	501.251	1.604
97+700	502.915	501.309	1.606
97+720	502.976	501.376	1.600
97+740	503.038	501.444	1.594
97+760	503.099	501.541	1.558
97+780	503.160	501.668	1.492
97+800	503.221	501.794	1.427
97+820	503.282	501.864	1.418
97+840	503.344	501.935	1.409
97+860	503.405	502.002	1.403
97+880	503.466	502.067	1.400
97+900	503.527	502.131	1.396
97+920	503.589	502.321	1.267
97+940	503.650	502.511	1.139
97+960	503.711	502.754	0.957
97+980	503.772	503.050	0.723
98+000	503.834	503.345	0.489
98+020	503.895	503.241	0.654



NOTES

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LEGEND

- CENTER LINE
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ABBREVIATIONS

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00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
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CONSULTANT :

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Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

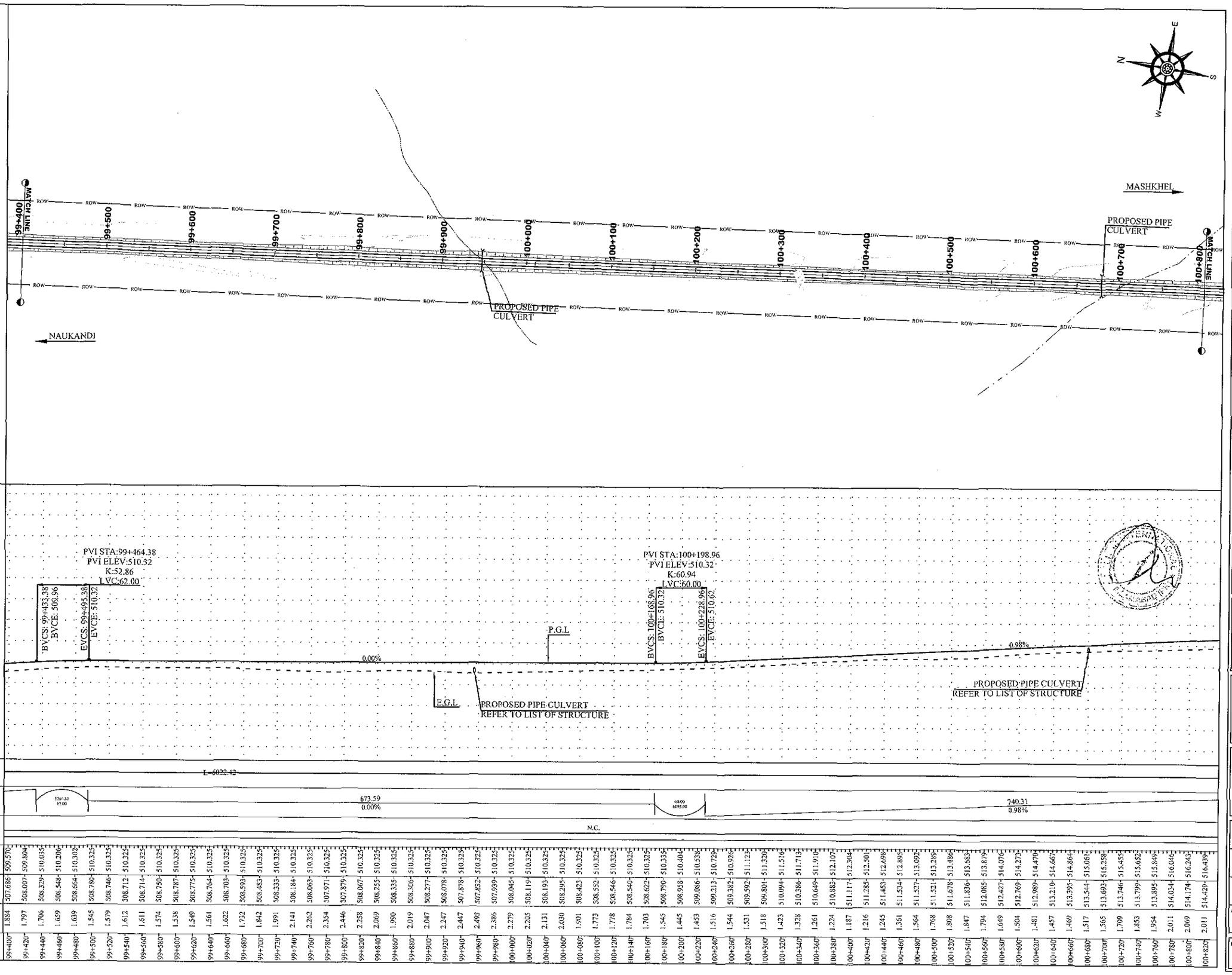
DRAWING TITLE:

PLAN & PROFILE
KM 98+000 TO 99+400

DESIGN BY: AYESHA SHABBIR	SHEET NO: 72 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/71

CH	PGL	NSL	LD
98+000	503.834	503.345	0.489
98+020	503.895	503.241	0.654
98+040	503.956	503.138	0.818
98+060	504.017	502.966	1.051
98+080	504.079	502.726	1.353
98+100	504.140	502.486	1.654
98+120	504.206	502.459	1.747
98+140	504.282	502.431	1.851
98+160	504.367	502.600	1.767
98+180	504.461	502.964	1.497
98+200	504.565	503.329	1.236
98+220	504.674	503.071	1.603
98+240	504.782	502.812	1.970
98+260	504.891	502.681	2.210
98+280	504.999	502.676	2.324
98+300	505.108	502.671	2.437
98+320	505.217	502.921	2.295
98+340	505.325	503.171	2.154
98+360	505.434	503.396	2.038
98+380	505.542	503.596	1.946
98+400	505.651	503.797	1.854
98+420	505.759	503.828	1.931
98+440	505.868	503.860	2.008
98+460	505.976	504.000	1.976
98+480	506.085	504.250	1.835
98+500	506.193	504.499	1.694
98+520	506.299	504.856	1.443
98+540	506.380	505.213	1.167
98+560	506.431	505.131	1.300
98+580	506.451	504.610	1.842
98+600	506.442	504.088	2.354
98+620	506.403	503.710	2.692
98+640	506.333	503.332	3.001
98+660	506.234	503.158	3.076
98+680	506.118	503.186	2.931
98+700	506.001	503.215	2.786
98+720	505.885	503.460	2.425
98+740	505.768	503.705	2.063
98+760	505.652	503.905	1.747
98+780	505.535	504.059	1.477
98+800	505.419	504.213	1.206
98+820	505.302	503.974	1.328
98+840	505.186	503.736	1.450
98+860	505.069	503.561	1.508
98+880	504.953	503.449	1.504
98+900	504.836	503.337	1.499
98+920	504.738	503.261	1.476
98+940	504.696	503.185	1.511
98+960	504.713	503.200	1.513
98+980	504.788	503.307	1.482
99+000	504.922	503.413	1.509
99+020	505.114	503.453	1.661
99+040	505.348	503.493	1.854
99+060	505.582	503.666	1.916
99+080	505.817	503.972	1.844
99+100	506.051	504.278	1.773
99+120	506.286	504.637	1.649
99+140	506.520	504.995	1.525
99+160	506.755	505.308	1.447
99+180	506.990	505.576	1.414
99+200	507.224	505.843	1.381
99+220	507.459	505.913	1.545
99+240	507.693	505.983	1.710
99+260	507.928	506.058	1.869
99+280	508.162	506.139	2.023
99+300	508.397	506.220	2.177
99+320	508.631	506.433	2.199
99+340	508.866	506.645	2.221
99+360	509.101	506.938	2.163
99+380	509.335	507.312	2.023
99+400	509.570	507.686	1.884
99+420	509.804	508.007	1.797



CH	PGL	NSL	LD
99+400	509.570	507.686	1.884
99+420	509.804	508.007	1.797
99+440	510.035	508.329	1.706
99+460	510.260	508.548	1.659
99+480	510.302	508.664	1.639
99+500	510.325	508.780	1.545
99+520	510.325	508.746	1.579
99+540	510.325	508.712	1.612
99+560	510.325	508.714	1.611
99+580	510.325	508.750	1.574
99+600	510.325	508.787	1.538
99+620	510.325	508.775	1.549
99+640	510.325	508.764	1.561
99+660	510.325	508.703	1.622
99+680	510.325	508.593	1.732
99+700	510.325	508.483	1.842
99+720	510.325	508.333	1.991
99+740	510.325	508.184	2.141
99+760	510.325	508.063	2.262
99+780	510.325	507.971	2.354
99+800	510.325	507.879	2.446
99+820	510.325	508.067	2.258
99+840	510.325	508.255	2.069
99+860	510.325	508.335	1.990
99+880	510.325	508.306	2.019
99+900	510.325	508.277	2.047
99+920	510.325	508.078	2.247
99+940	510.325	507.878	2.447
99+960	510.325	507.832	2.493
99+980	510.325	507.939	2.386
100+000	510.325	508.045	2.279
100+020	510.325	508.119	2.205
100+040	510.325	508.193	2.131
100+060	510.325	508.295	2.030
100+080	510.325	508.423	1.901
100+100	510.325	508.552	1.773
100+120	510.325	508.546	1.778
100+140	510.325	508.540	1.784
100+160	510.325	508.622	1.703
100+180	510.335	508.790	1.545
100+200	510.404	508.958	1.445
100+220	510.538	509.086	1.453
100+240	510.729	509.213	1.516
100+260	510.926	509.382	1.544
100+280	511.123	509.592	1.531
100+300	511.320	509.801	1.518
100+320	511.516	510.094	1.423
100+340	511.713	510.386	1.328
100+360	511.910	510.649	1.261
100+380	512.107	510.883	1.224
100+400	512.304	511.117	1.187
100+420	512.501	511.285	1.216
100+440	512.698	511.453	1.245
100+460	512.895	511.534	1.361
100+480	513.092	511.527	1.564
100+500	513.289	511.521	1.768
100+520	513.486	511.678	1.808
100+540	513.683	511.836	1.847
100+560	513.879	512.085	1.794
100+580	514.076	512.427	1.649
100+600	514.273	512.769	1.504
100+620	514.470	512.989	1.481
100+640	514.667	513.210	1.457
100+660	514.864	513.395	1.469
100+680	515.061	513.544	1.517
100+700	515.258	513.693	1.565
100+720	515.455	513.746	1.709
100+740	515.652	513.799	1.853
100+760	515.849	513.895	1.954
100+780	516.046	514.034	2.011
100+800	516.243	514.174	2.069
100+820	516.439	514.429	2.011

NOTES

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LEGEND

- CENTER LINE
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

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IN ASSOCIATION WITH :
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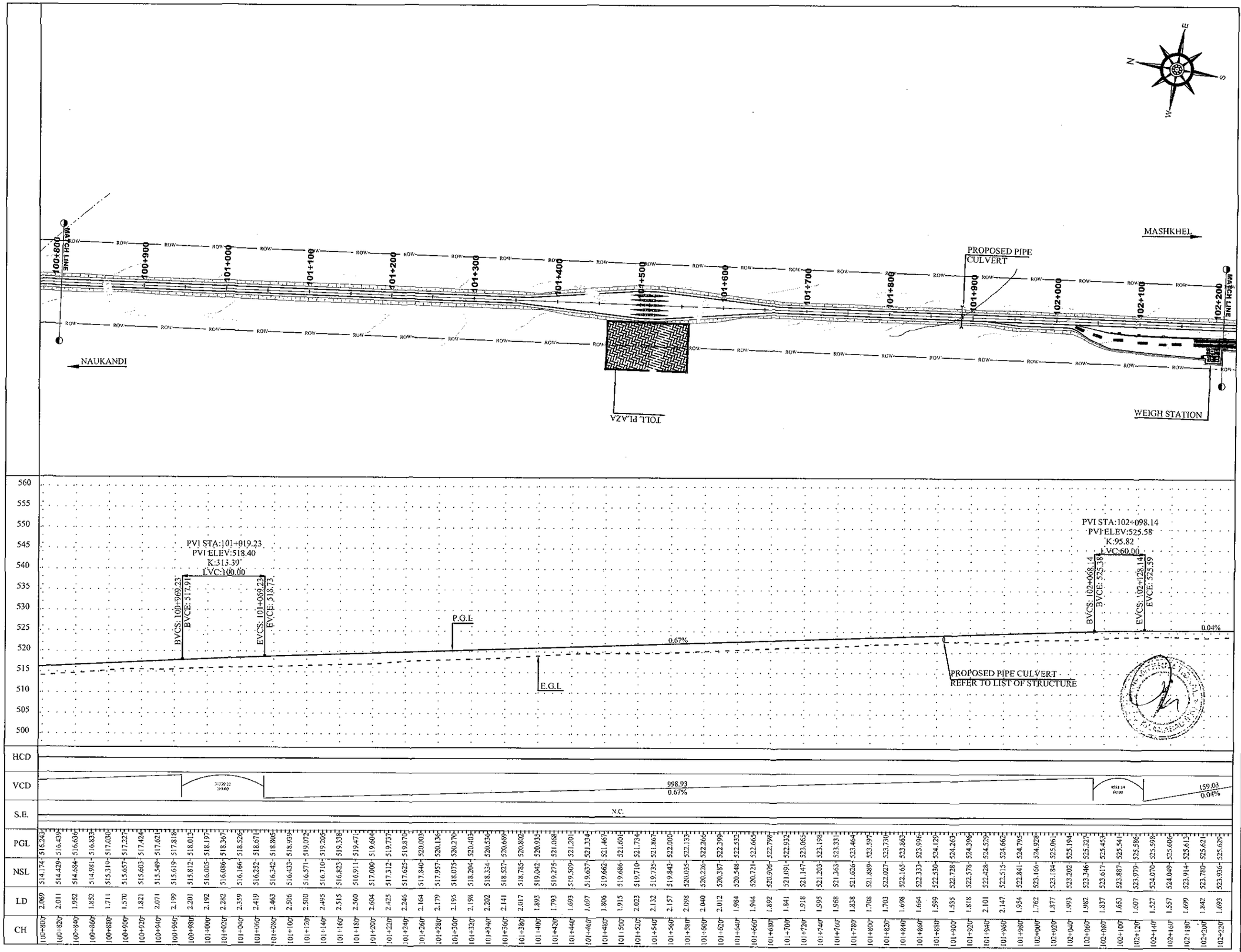
DRAWING TITLE:

PLAN & PROFILE
KM 99+400 TO 100+800

DESIGN BY: AYESHA SHABBIR	SHEET NO: 72 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/P/72



CH	PGL	NSL	LD
100+800	516.243	514.174	2.069
100+820	516.439	514.429	2.011
100+840	516.636	514.684	1.952
100+860	516.833	514.981	1.852
100+880	517.030	515.319	1.711
100+900	517.227	515.657	1.570
100+920	517.424	515.603	1.821
100+940	517.621	515.549	2.071
100+960	517.818	515.619	2.199
100+980	518.013	515.812	2.201
101+000	518.197	516.005	2.192
101+020	518.367	516.086	2.282
101+040	518.526	516.166	2.359
101+060	518.671	516.252	2.419
101+080	518.805	516.342	2.463
101+100	518.939	516.433	2.506
101+120	519.072	516.571	2.500
101+140	519.205	516.710	2.495
101+160	519.338	516.823	2.515
101+180	519.471	516.911	2.560
101+200	519.604	517.000	2.604
101+220	519.737	517.312	2.425
101+240	519.870	517.625	2.246
101+260	520.005	517.840	2.164
101+280	520.136	517.957	2.179
101+300	520.270	518.075	2.195
101+320	520.403	518.204	2.198
101+340	520.536	518.334	2.202
101+360	520.669	518.527	2.141
101+380	520.802	518.785	2.017
101+400	520.935	519.042	1.893
101+420	521.068	519.275	1.793
101+440	521.201	519.509	1.693
101+460	521.334	519.637	1.697
101+480	521.467	519.662	1.806
101+500	521.601	519.686	1.915
101+520	521.734	519.710	2.023
101+540	521.867	519.735	2.132
101+560	522.000	519.843	2.157
101+580	522.133	520.035	2.098
101+600	522.266	520.226	2.040
101+620	522.399	520.387	2.012
101+640	522.532	520.548	1.984
101+660	522.665	520.721	1.944
101+680	522.798	520.906	1.892
101+700	522.932	521.091	1.841
101+720	523.065	521.147	1.918
101+740	523.198	521.203	1.995
101+760	523.331	521.363	1.968
101+780	523.464	521.626	1.838
101+800	523.597	521.889	1.708
101+820	523.730	522.027	1.703
101+840	523.863	522.165	1.698
101+860	523.996	522.333	1.664
101+880	524.129	522.530	1.599
101+900	524.263	522.728	1.535
101+920	524.396	522.578	1.818
101+940	524.529	522.428	2.101
101+960	524.662	522.515	2.147
101+980	524.795	522.841	1.954
102+000	524.928	523.166	1.762
102+020	525.061	523.184	1.877
102+040	525.194	523.202	1.993
102+060	525.327	523.346	1.982
102+080	525.459	523.617	1.837
102+100	525.541	523.887	1.653
102+120	525.586	523.979	1.607
102+140	525.598	524.070	1.527
102+160	525.606	524.049	1.557
102+180	525.613	523.914	1.699
102+200	525.621	523.780	1.842
102+220	525.629	523.936	1.693

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LEGEND

- CENTER LINE
- ROAD EDGE
- SHOULDER EDGE
- P.G.L
- E.G.L
- *BUILDING*
- CANAL
- TREE
- PROPOSED BOX CULVERT — 1 - 3.5 X 1.5 (CELL - W X H)

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

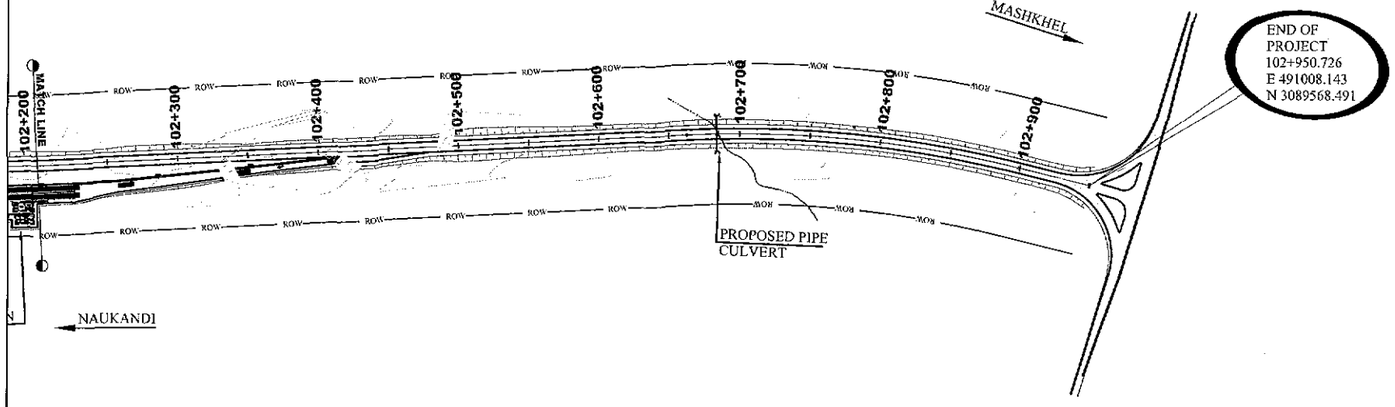
KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

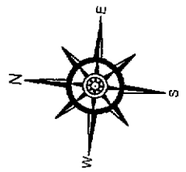
DRAWING TITLE:

PLAN & PROFILE
KM 100+800 TO 102+200

DESIGN BY: AYESHA SHABBIR	SHEET NO: 73 TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/P/73





NOTES

1. ALL DIMENSION AND DISTANCE SHOWN ON PLANS & PROFILE DRAWINGS ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

CENTER LINE
ROAD EDGE
SHOULDER EDGE
P.G.L
E.G.L
BUILDING
CANAL
TREE
PROPOSED BOX CULVERT
1 - 3.5 X 1.5
CELL - W X H

ABBREVIATIONS

PGL	PROFILE GRADE LEVEL
EGL	EXISTING GROUND LEVEL
NSL	NATURAL SURFACE LEVEL
R.O.W	RIGHT OF WAY
PVI	POINT OF VERTICAL INTERSECTION
BVCS	BEGINNING OF VERTICAL STATION
BVCE	BEGINNING OF VERTICAL ELEVATION
EVCS	ENDING OF VERTICAL STATION
EVCE	ENDING OF VERTICAL ELEVATION
CH	CHAINAGE
LD	LEVEL DIFFERENCE
HCD	HORIZONTAL CURVE DETAIL
VCD	VERTICAL CURVE DETAIL
W	WIDTH
H	HEIGHT

01		
00		
REV.	REVISION/ISSUE	DATE

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEFRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER CONSULTANT
& ARCHITECTS

DRAWING TITLE:

PLAN & PROFILE
KM 102+200 TO 102+950.73

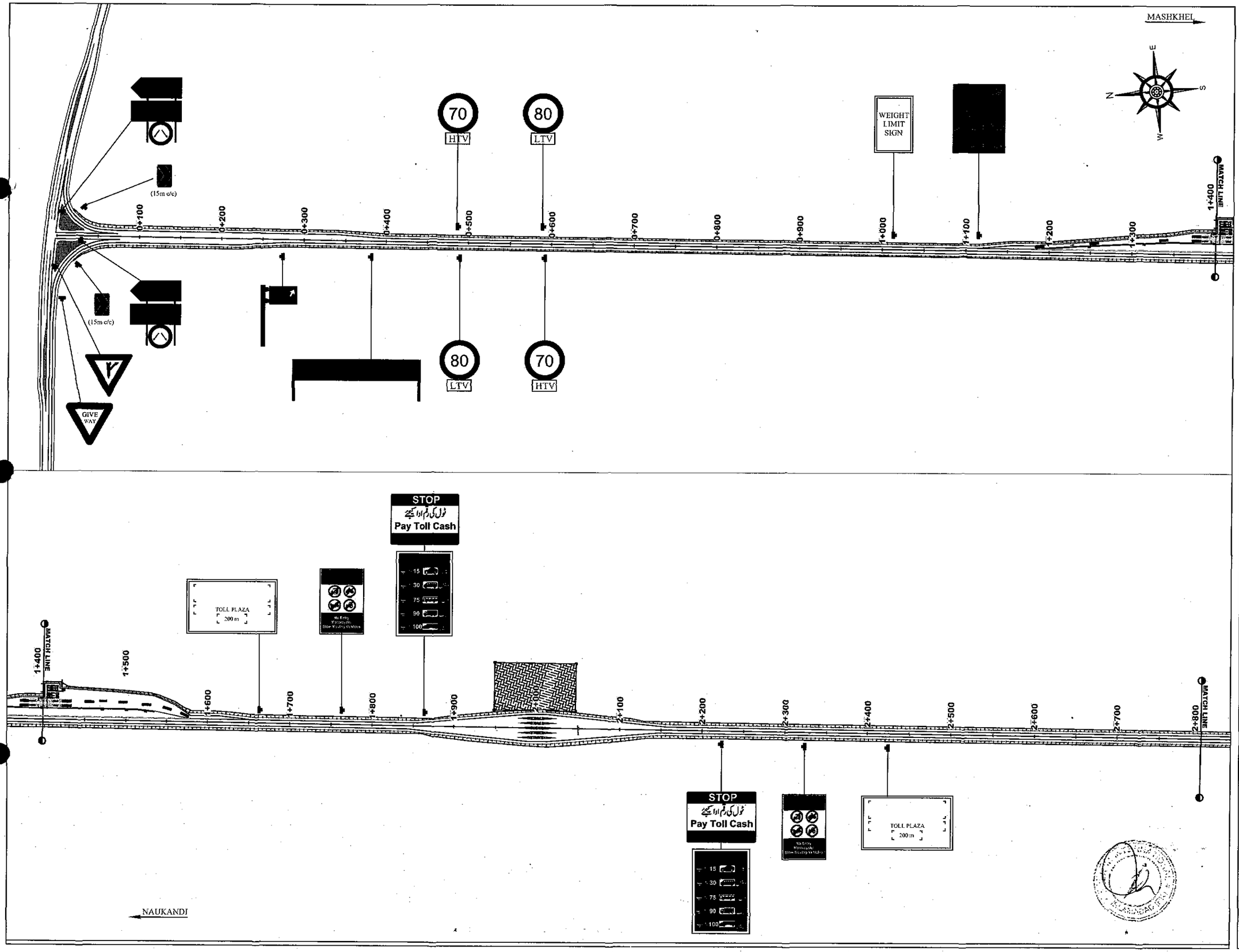
DESIGN BY: AYESHA SHABBIR	SHEET NO TO 74
DRAWN BY: RAJA FARHAT	SCALE: H= 1:2000 V= 1:400
CHECKED BY: ZAFAR ALI	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME: 21/KN/NKD/74

NAUKANDI TO MASHKHEL

TRAFFIC SIGNAGE PLAN

KM 00+000 TO KM 102+950.726



NOTES

REV.	REVISION/ISSUE	DATE
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
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I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

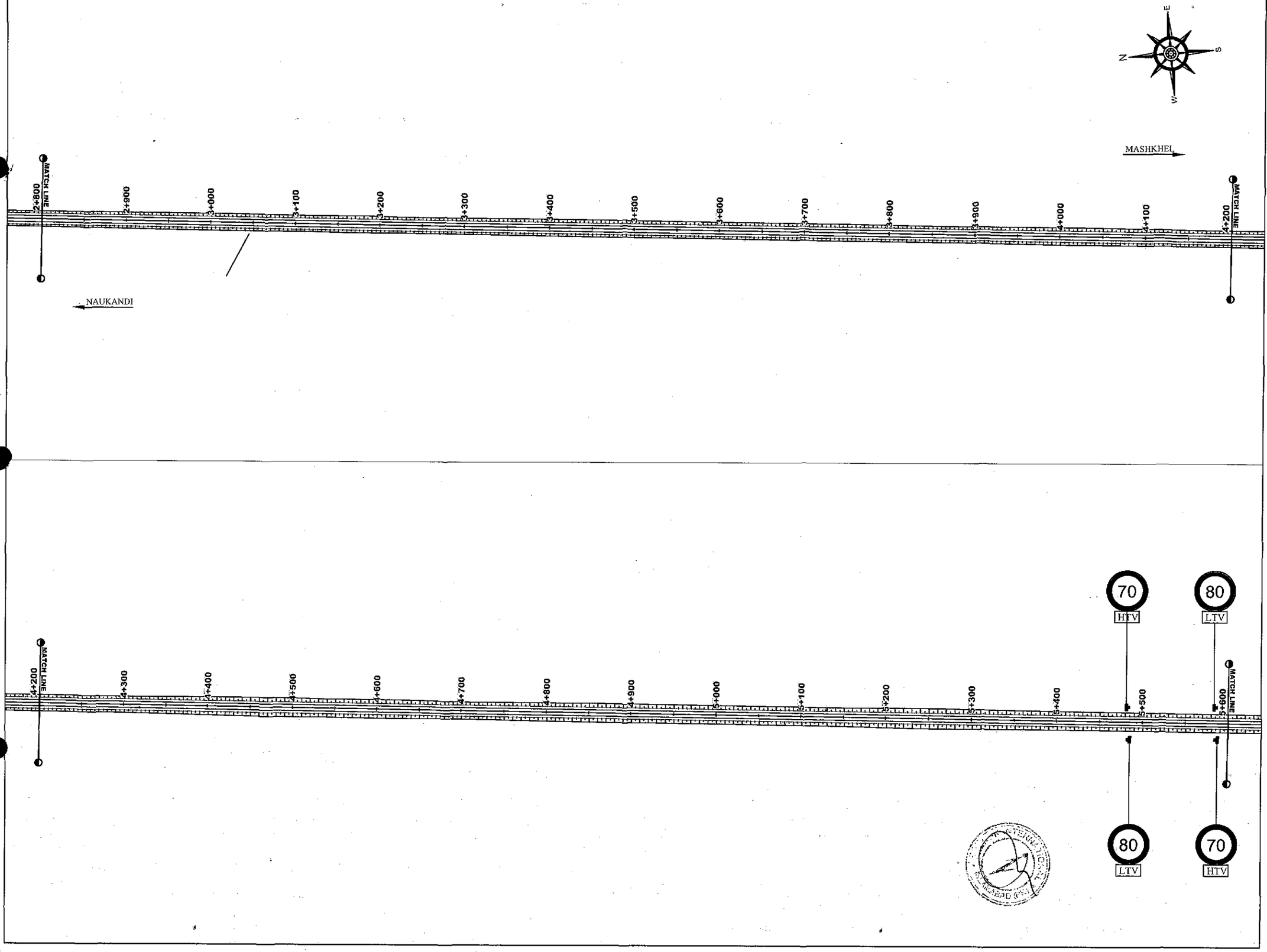
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 0+000 TO 2+800

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	01 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/01



NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

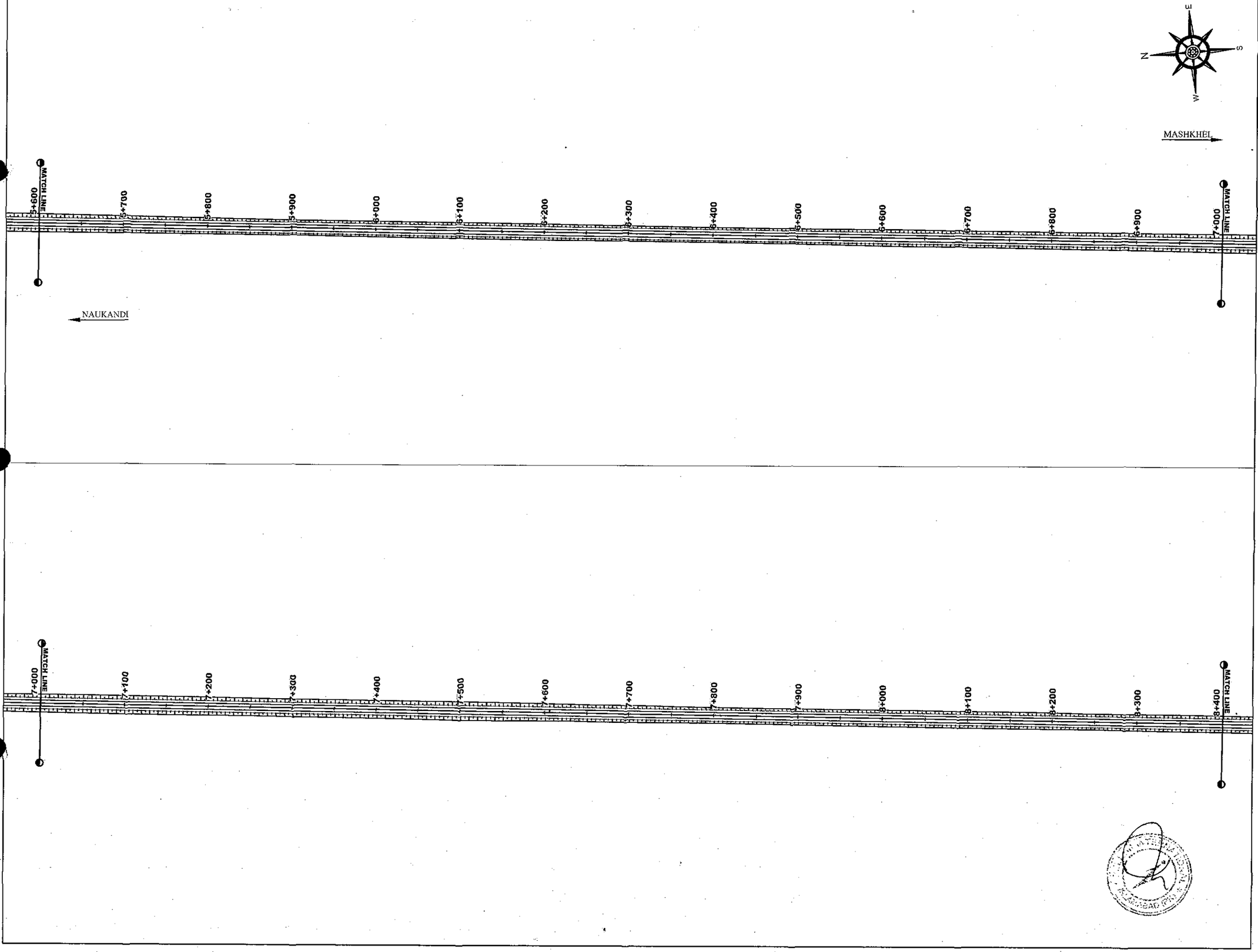
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 2+800 TO 5+600

DESIGN BY: KAMAL SHAHBAZ	SHEET NO: 02 of 37
DRAWN BY: RAJA FARHAT	SCALE: N.T.S.
CHECKED BY: DR KAMRAN	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/02



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REV.	REVISION/ISSUE	DATE
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

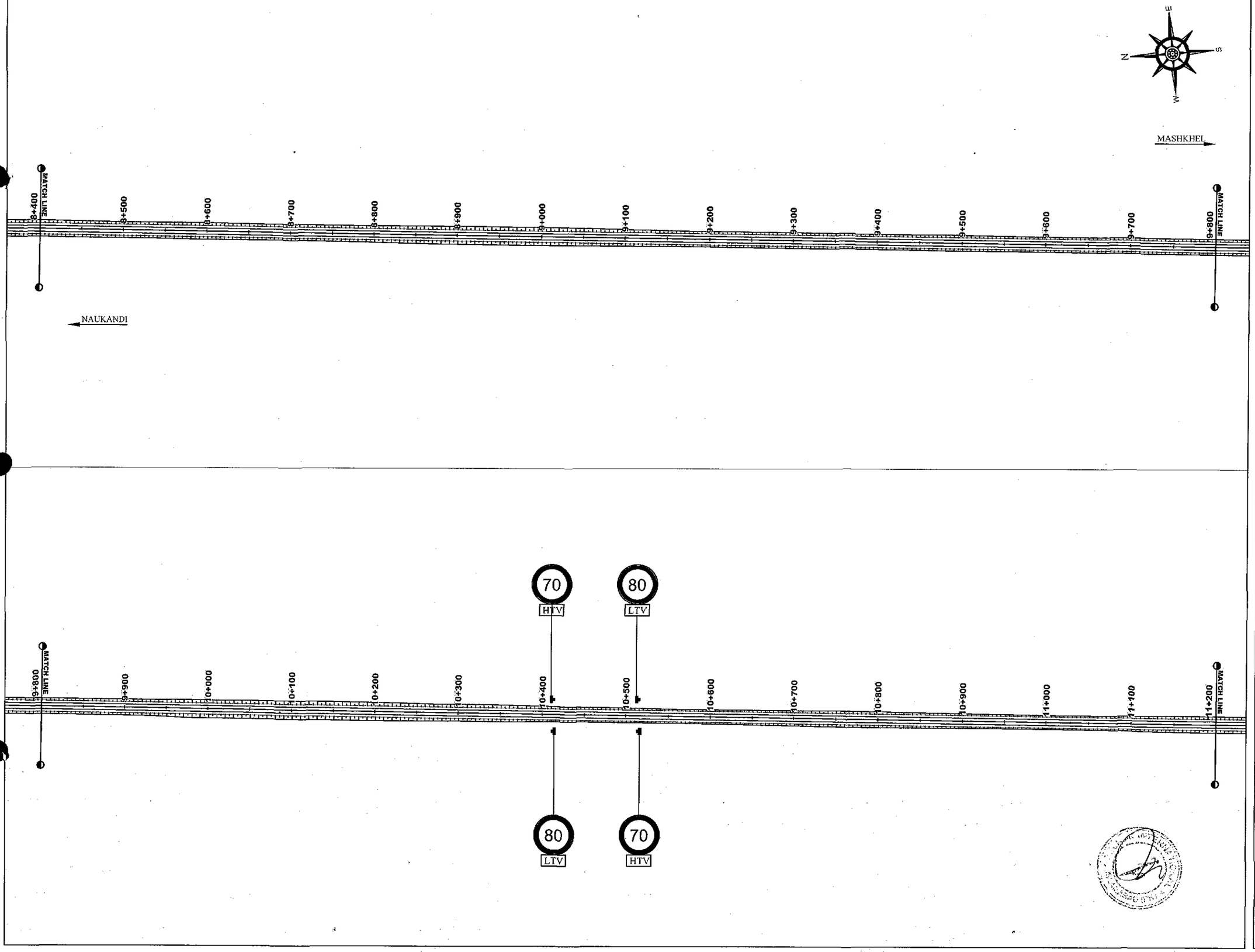
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 5+600 TO 8+400

DESIGN BY: KAMAL SHAHBAZ	SHEET NO: 03 of 37
DRAWN BY: RAJA FARIAT	SCALE: N.T.S.
CHECKED BY: DR KAMRAN	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/03



NOTES

REV.	REVISION/ISSUE	DATE
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
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I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 8+400 TO 11+200

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	04 of 37
DRAWN BY:	SCALE:
RAJA FARJAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

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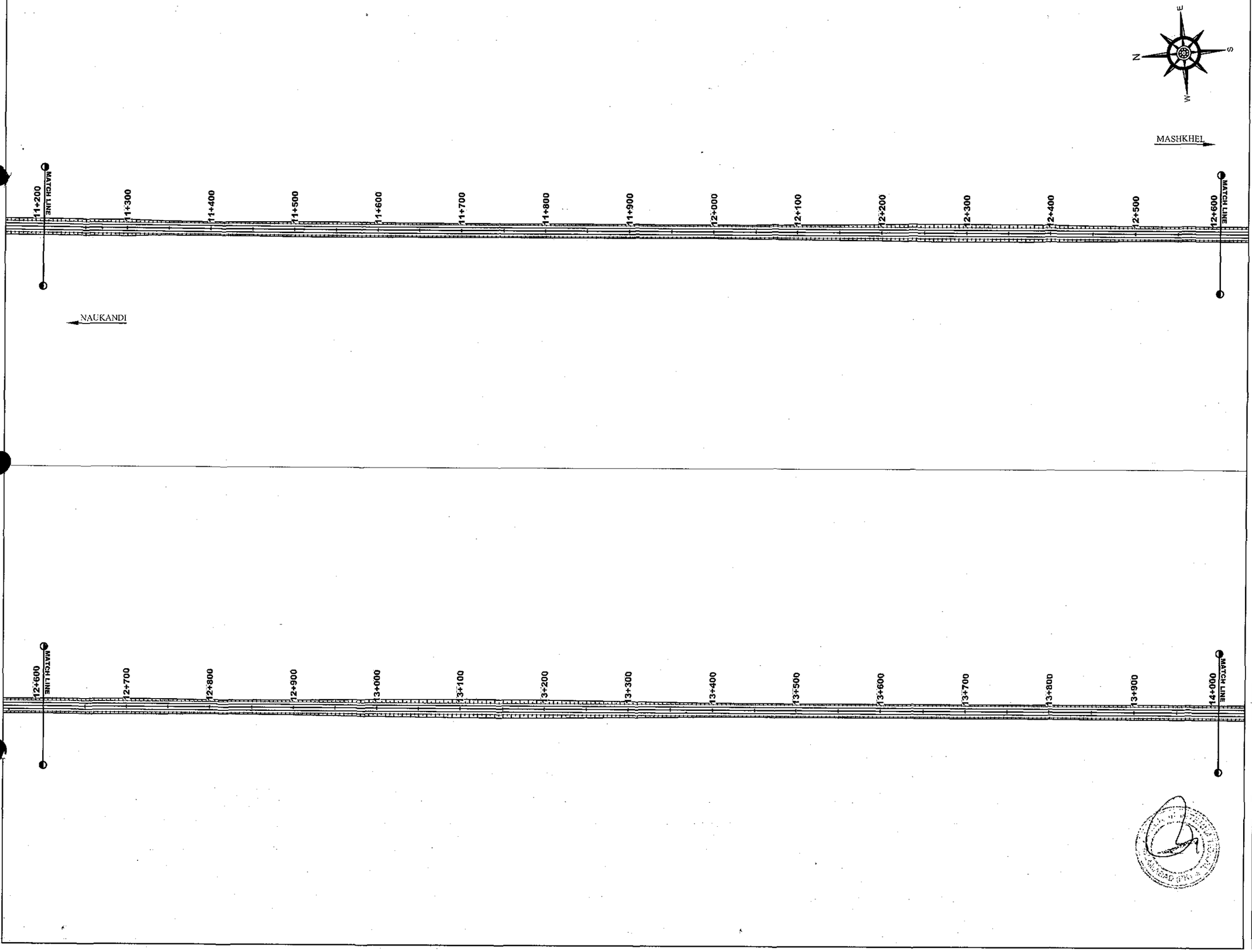

NOTES

REV.	REVISION/ISSUE	DATE
01		
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PROJECT:

DETAILED DESIGN FOR
CONSTRUCTION OF ROAD FROM
NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 11+200 TO 14+000

DESIGN BY: *KAMAL SHAHBAZ*	SHEET NO: *05 of 37*
DRAWN BY: RAJA FARHAT	SCALE: N.T.S.
CHECKED BY: DR KAMRAN	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

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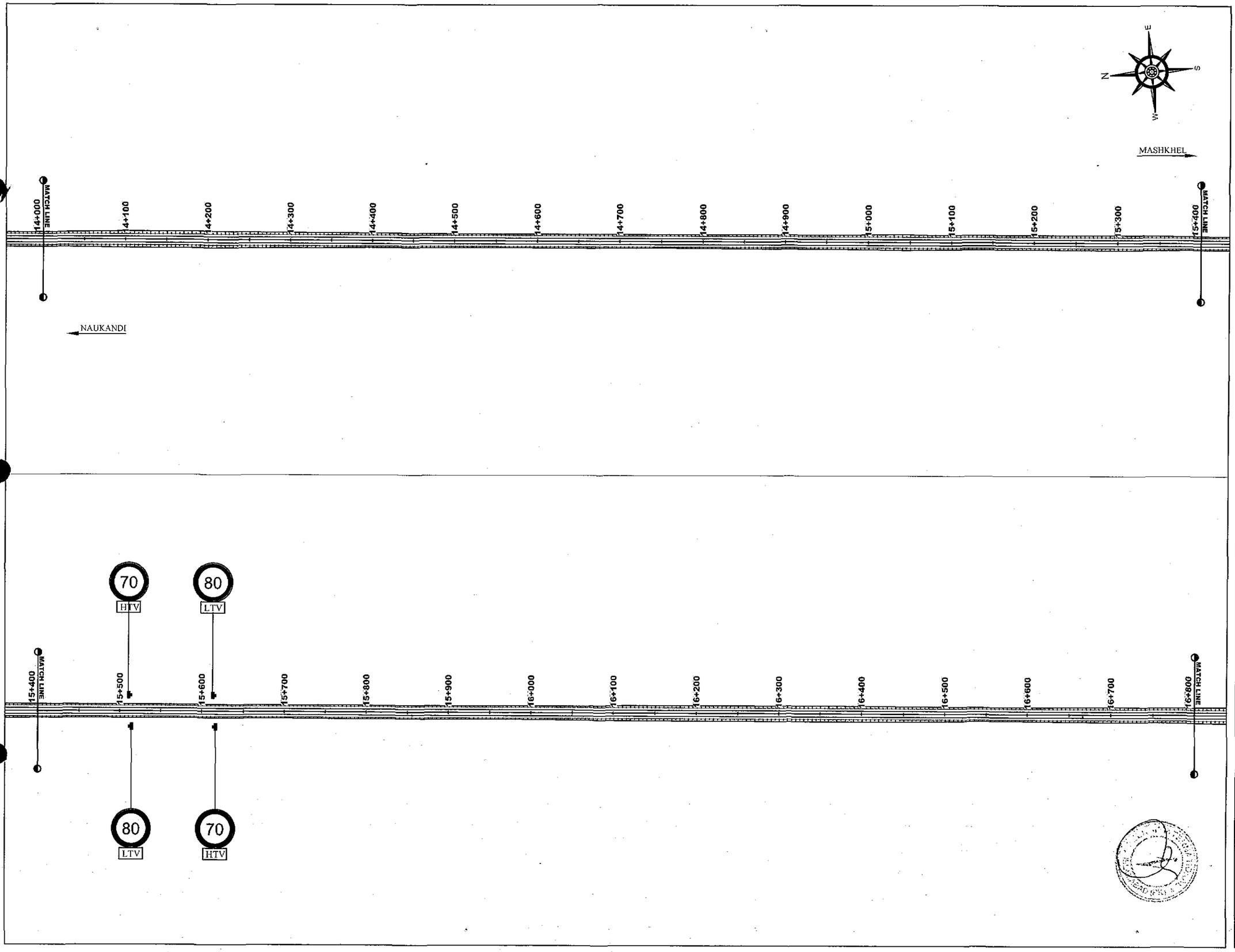

NOTES

REV.	REVISION/ISSUE	DATE
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

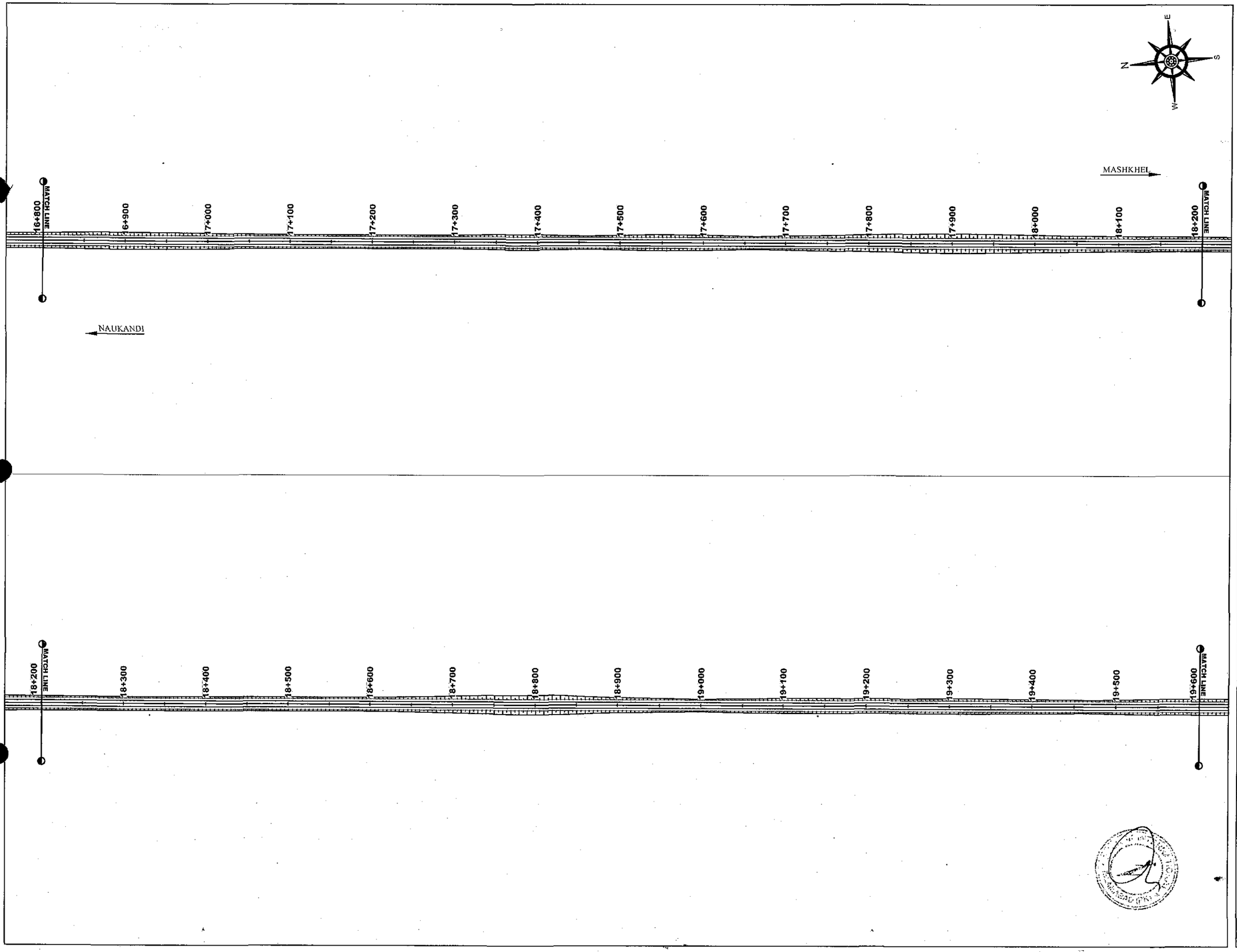
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 14+000 TO 16+800

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	05 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV. 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/06



NOTES

REV.	REVISION/ISSUE	DATE
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

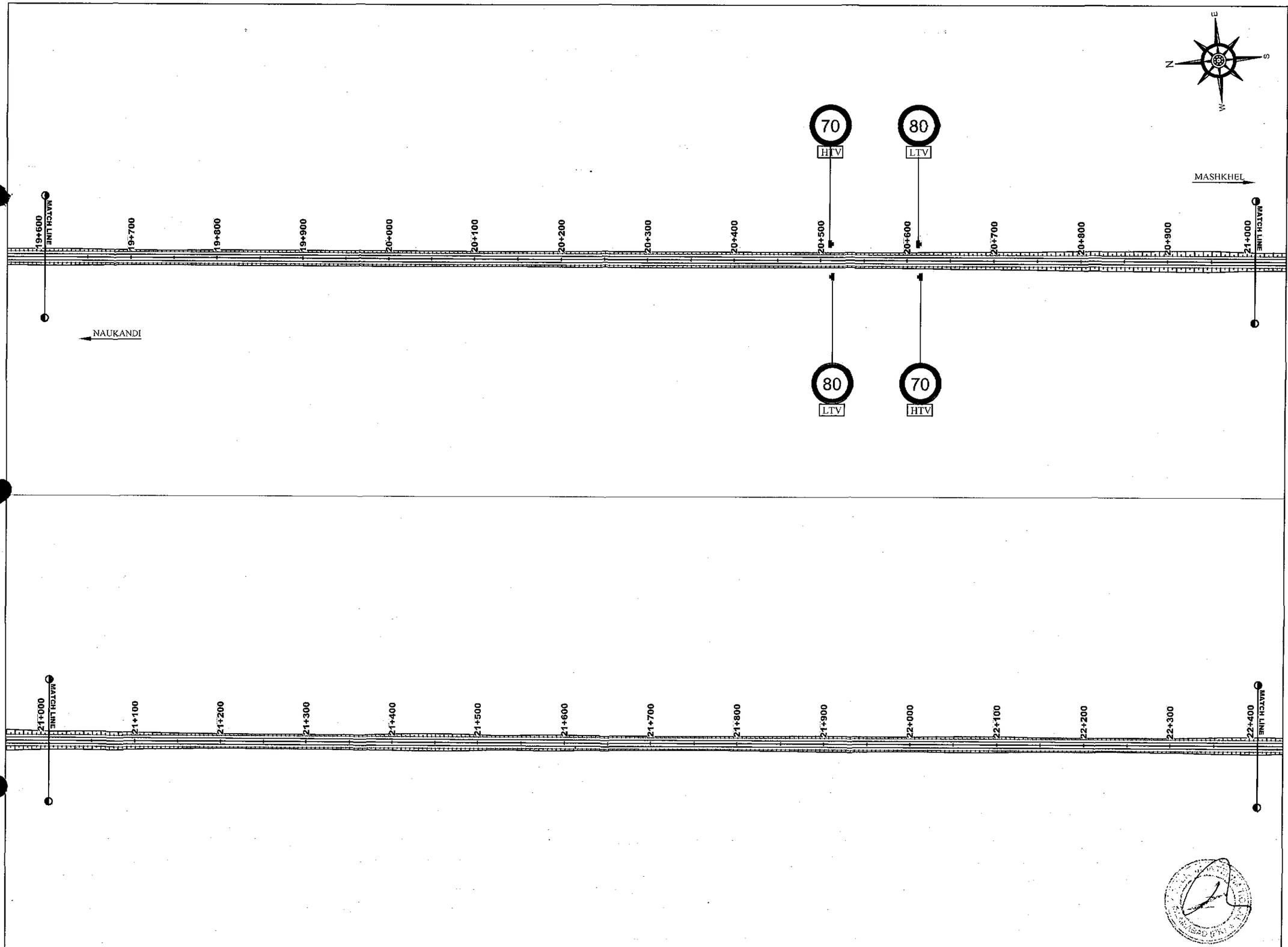
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 16+800 TO 19+600

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	07 of 37
DRAWN BY:	SCALE:
RAJA FARIAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/07



NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL..(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 19+600 TO 22+400

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	08 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

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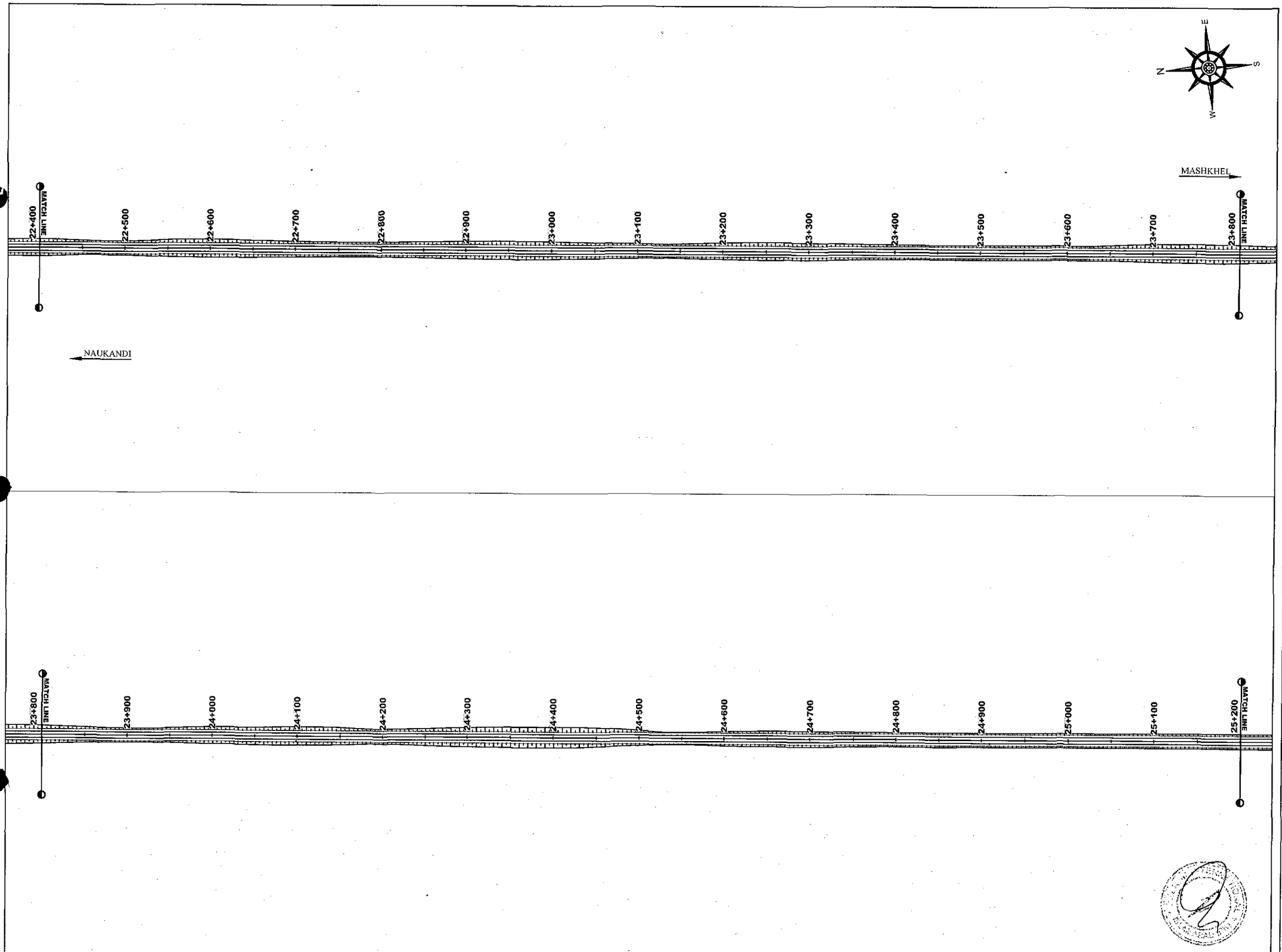

NOTES

REV.	REVISION/ISSUE	DATE
01		
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL,(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 22+400 TO 25+200

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	09 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

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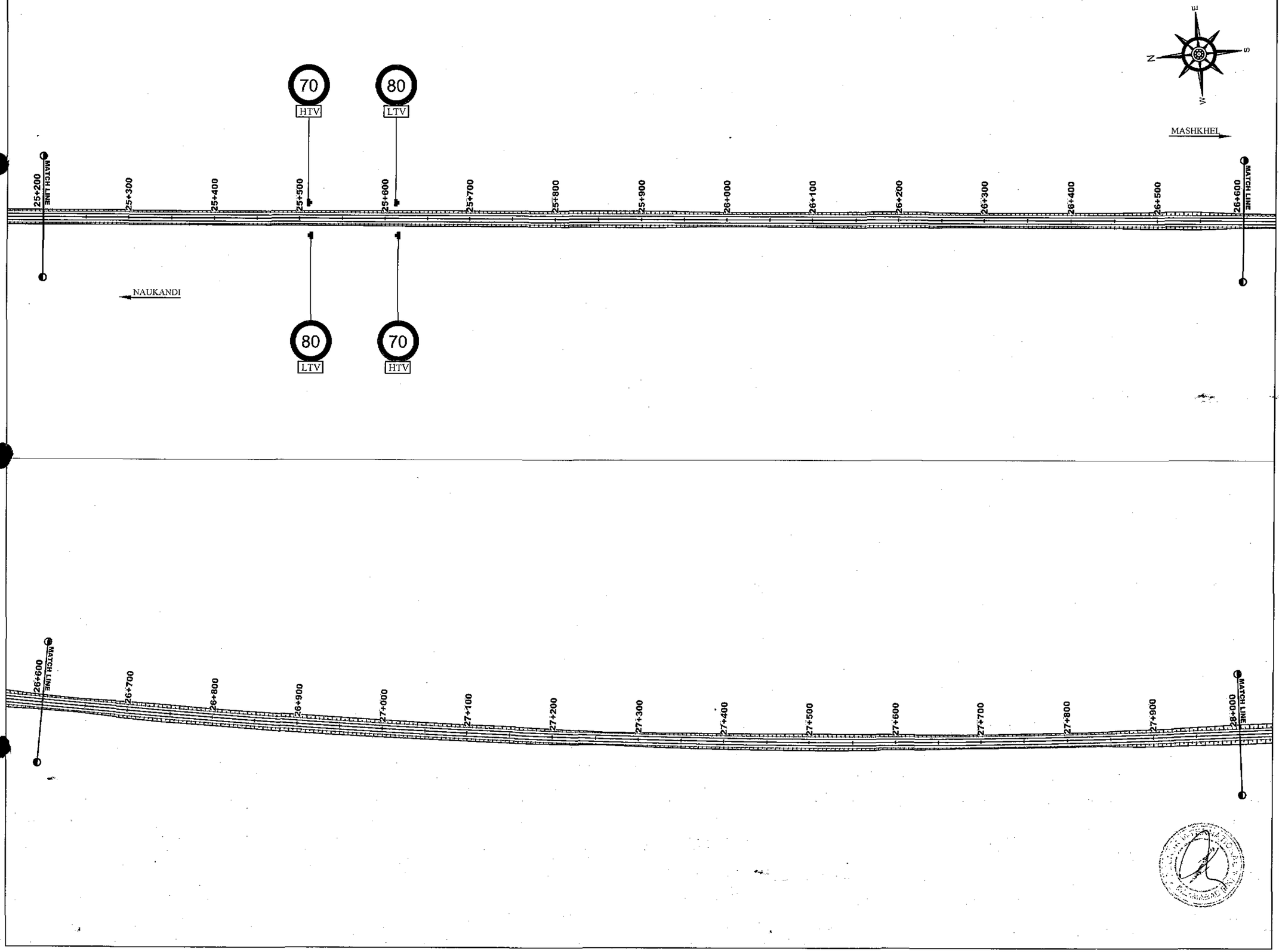

NOTES

REV.	REVISION/ISSUE	DATE
01		
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

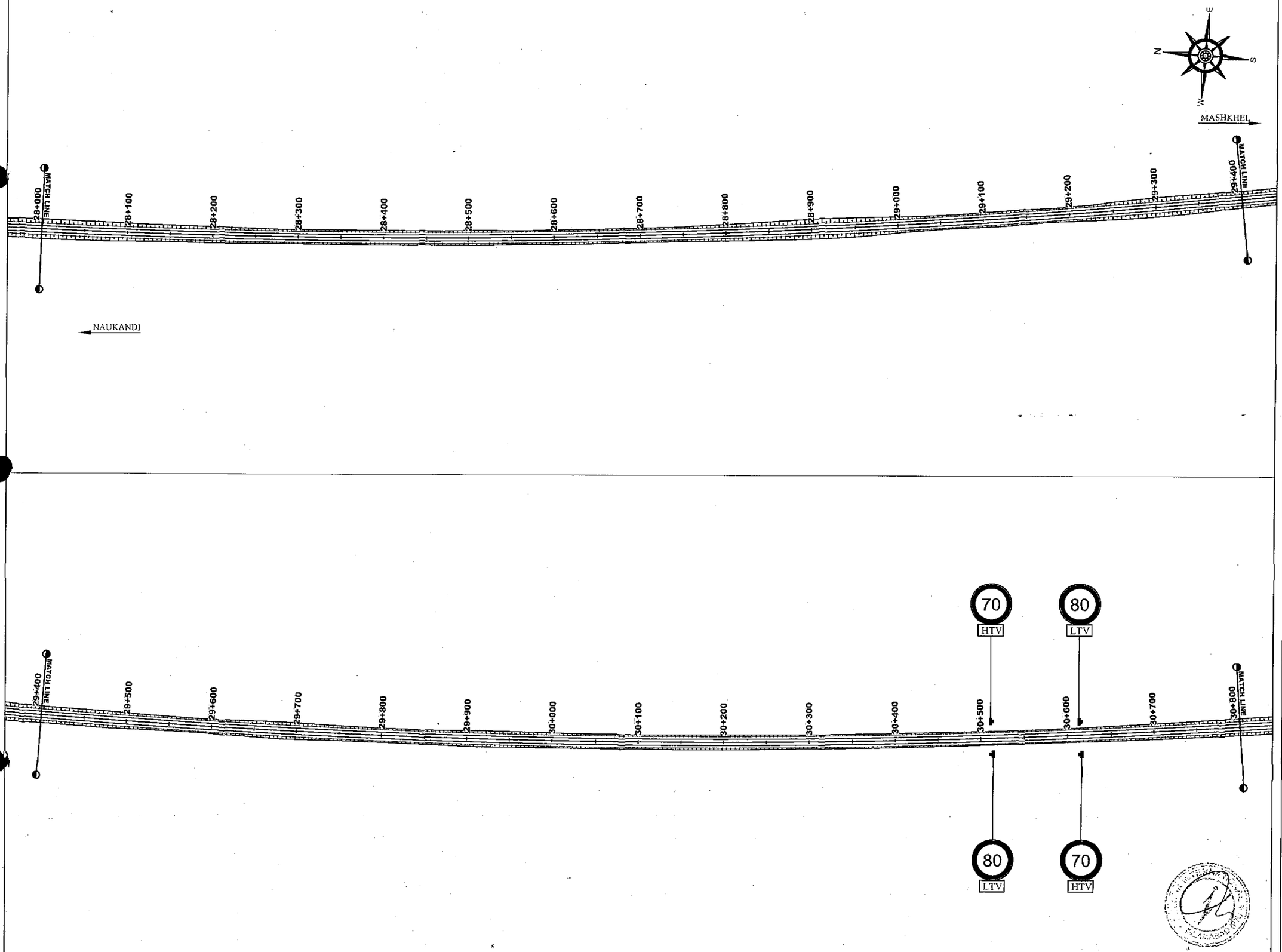
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 25+200 TO 28+000

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	10 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/10



NOTES

REV.	REVISION/ISSUE	DATE
01		
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEFRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
1-B Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 28+000 TO 30+800

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	11 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

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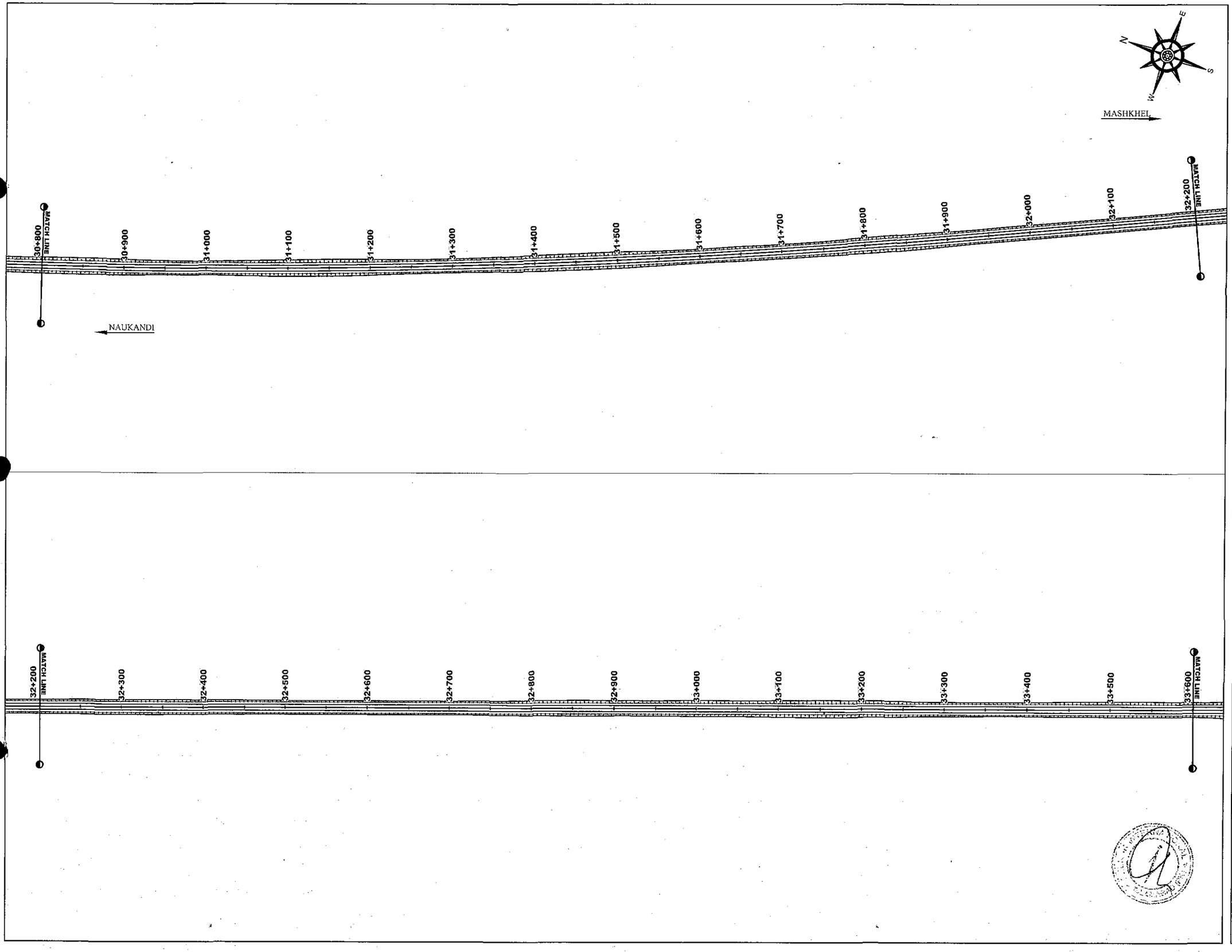

NOTES

REV.	REVISION/ISSUE	DATE
01		
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
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I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

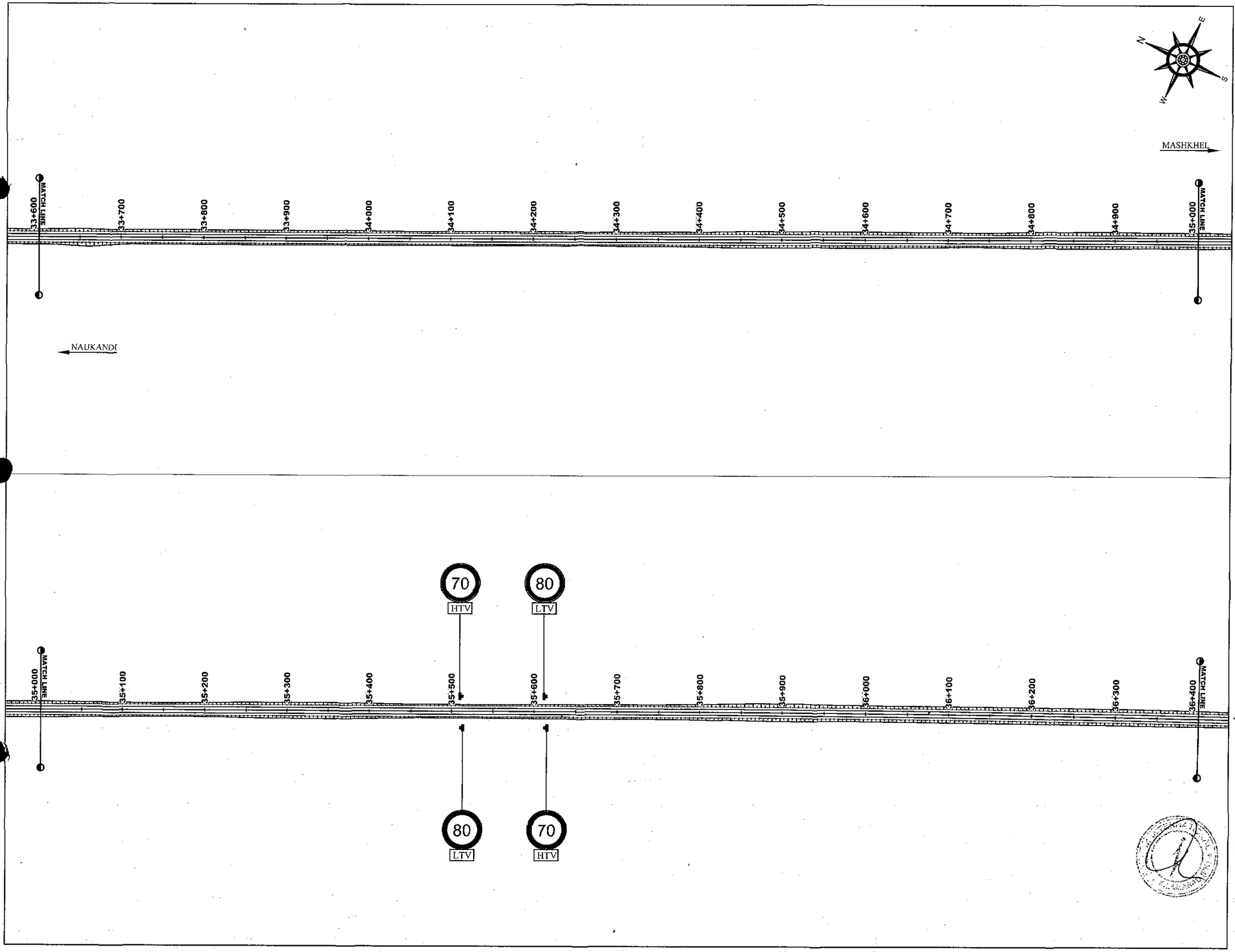
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 30+800 TO 33+600

DESIGN BY: KAMAL SHAHBAZ	SHEET NO: 12 of 37
DRAWN BY: RAJA FARHAT	SCALE: N.T.S.
CHECKED BY: DR KAMRAN	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/12



NOTES

REV.	REVISION/ISSUE	DATE
01		
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

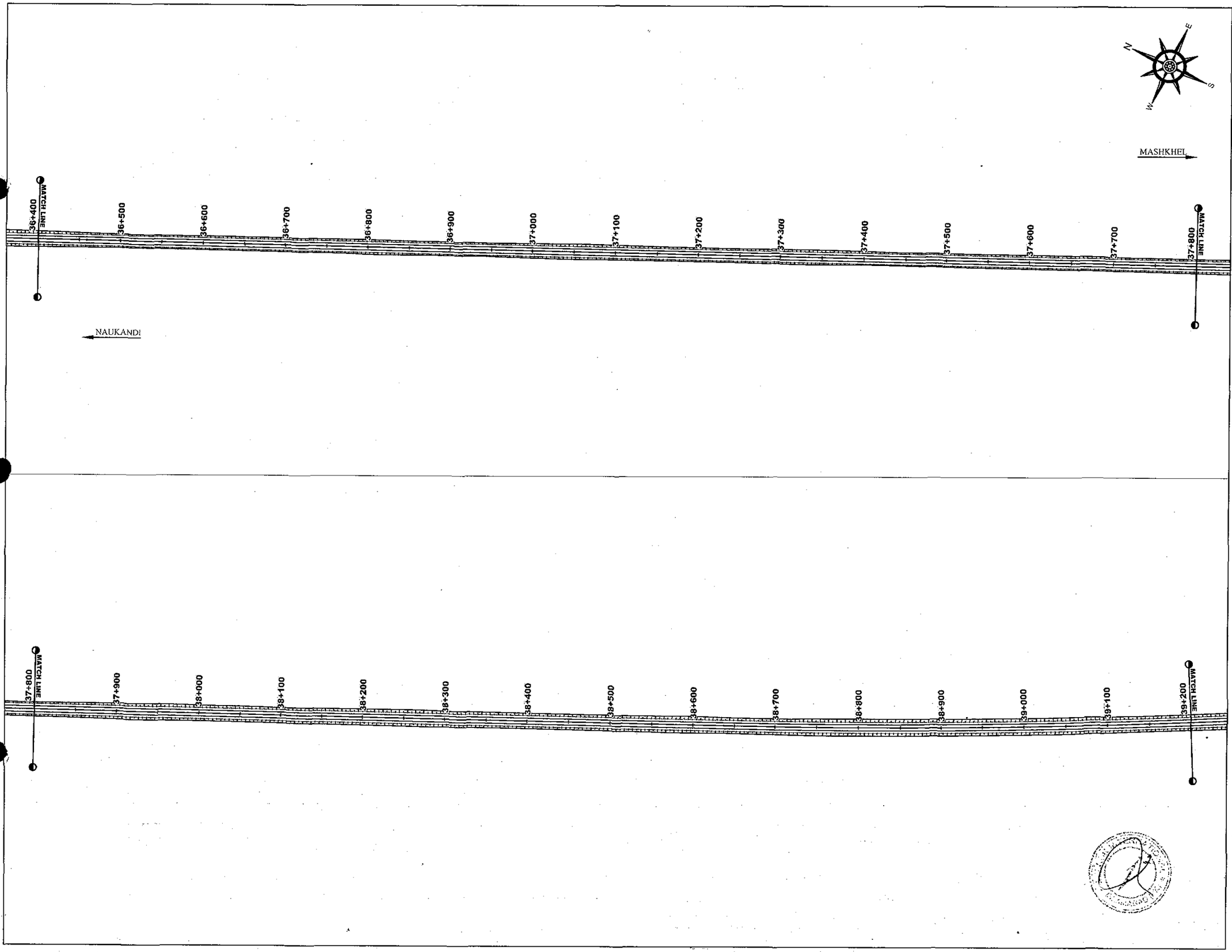
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 33+600 TO 36+400

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	13 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/13



NOTES

REV.	REVISION/ISSUE	DATE
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

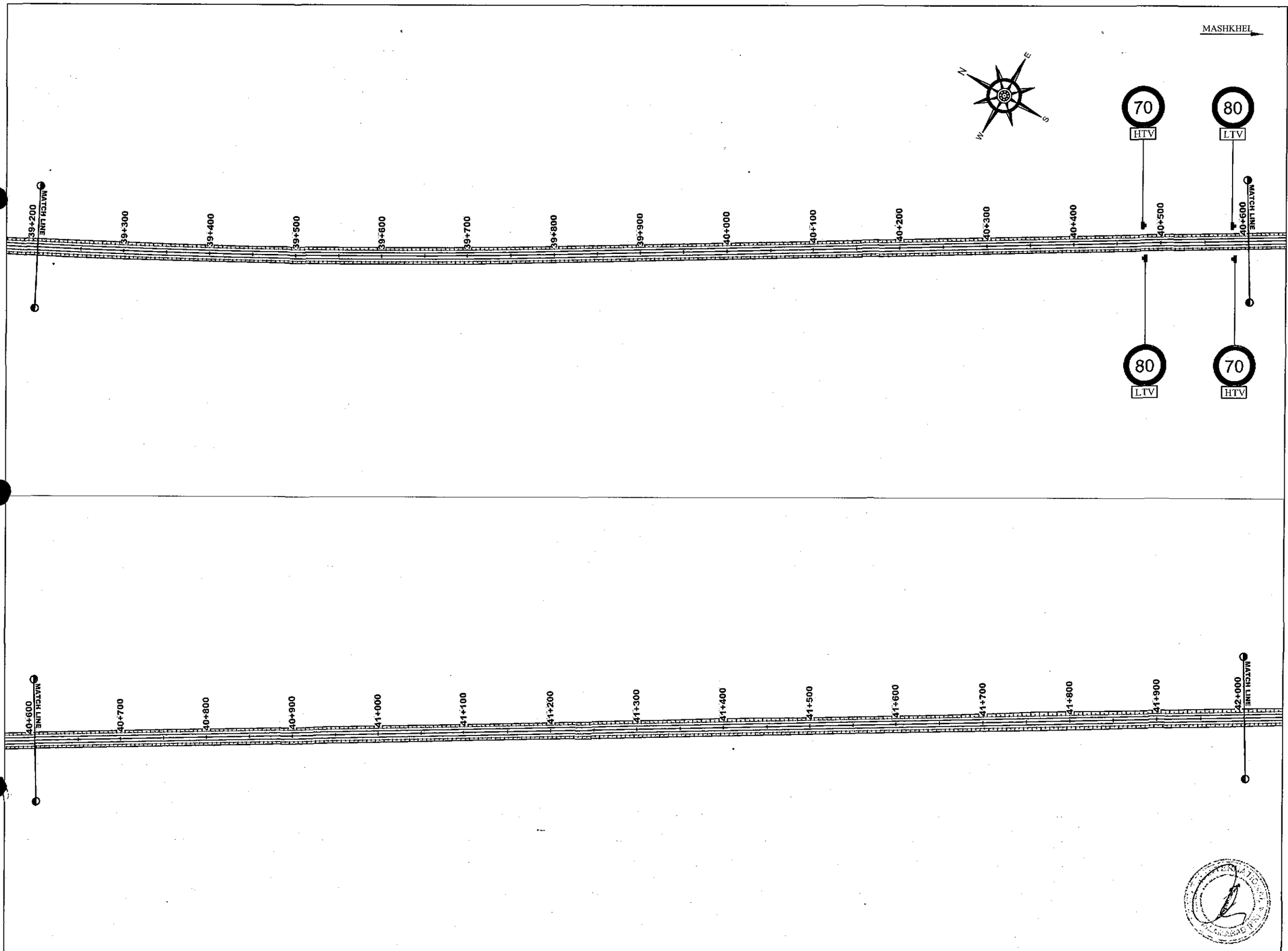
TRAFFIC SIGNAGE PLAN
KM 36+400 TO 39+200

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	14 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV. 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/14

MASHKHEL



NAUKANDI

NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
1-B Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

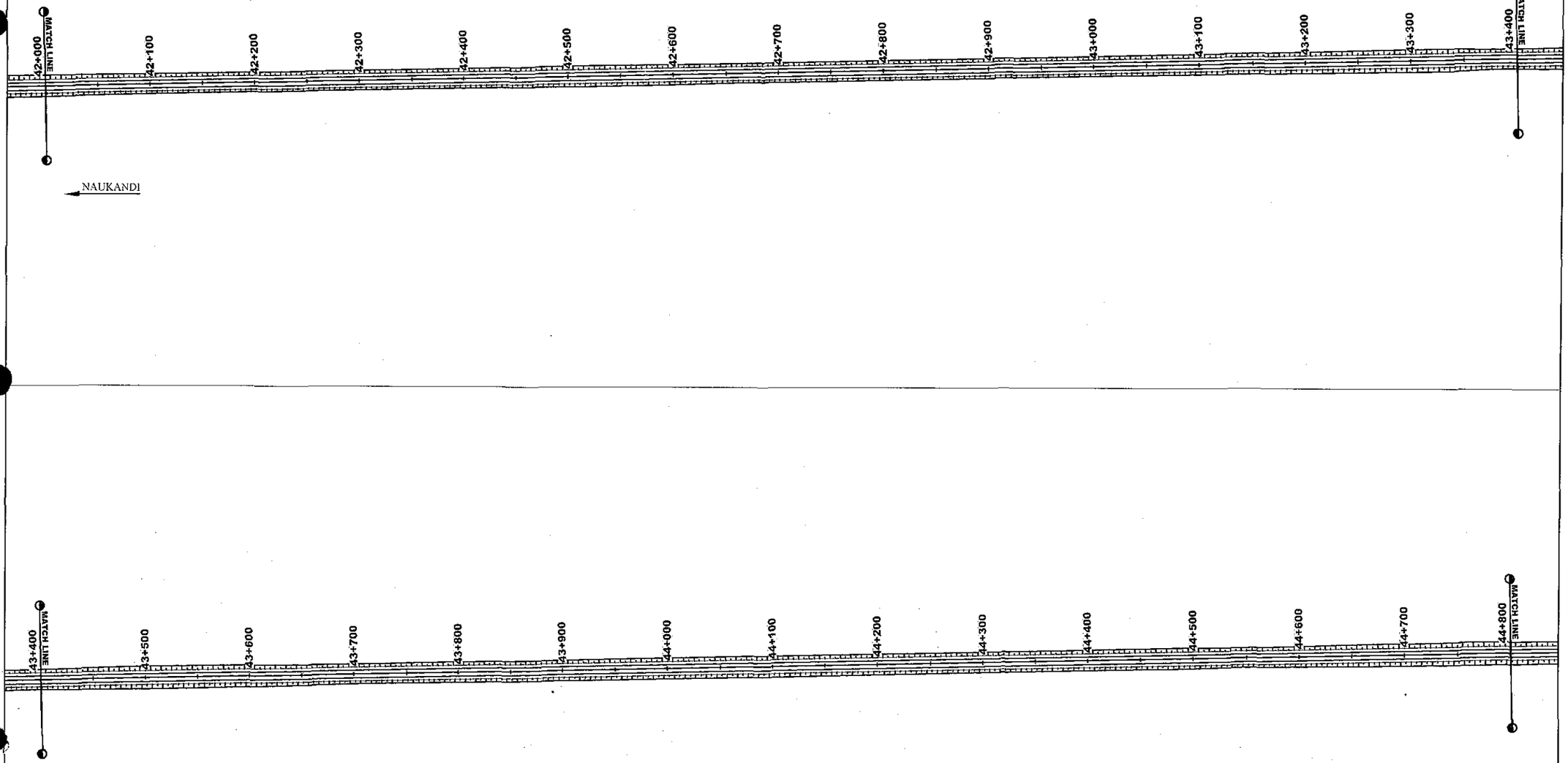
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 39+200 TO 42+000

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	15 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV. 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/15



NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

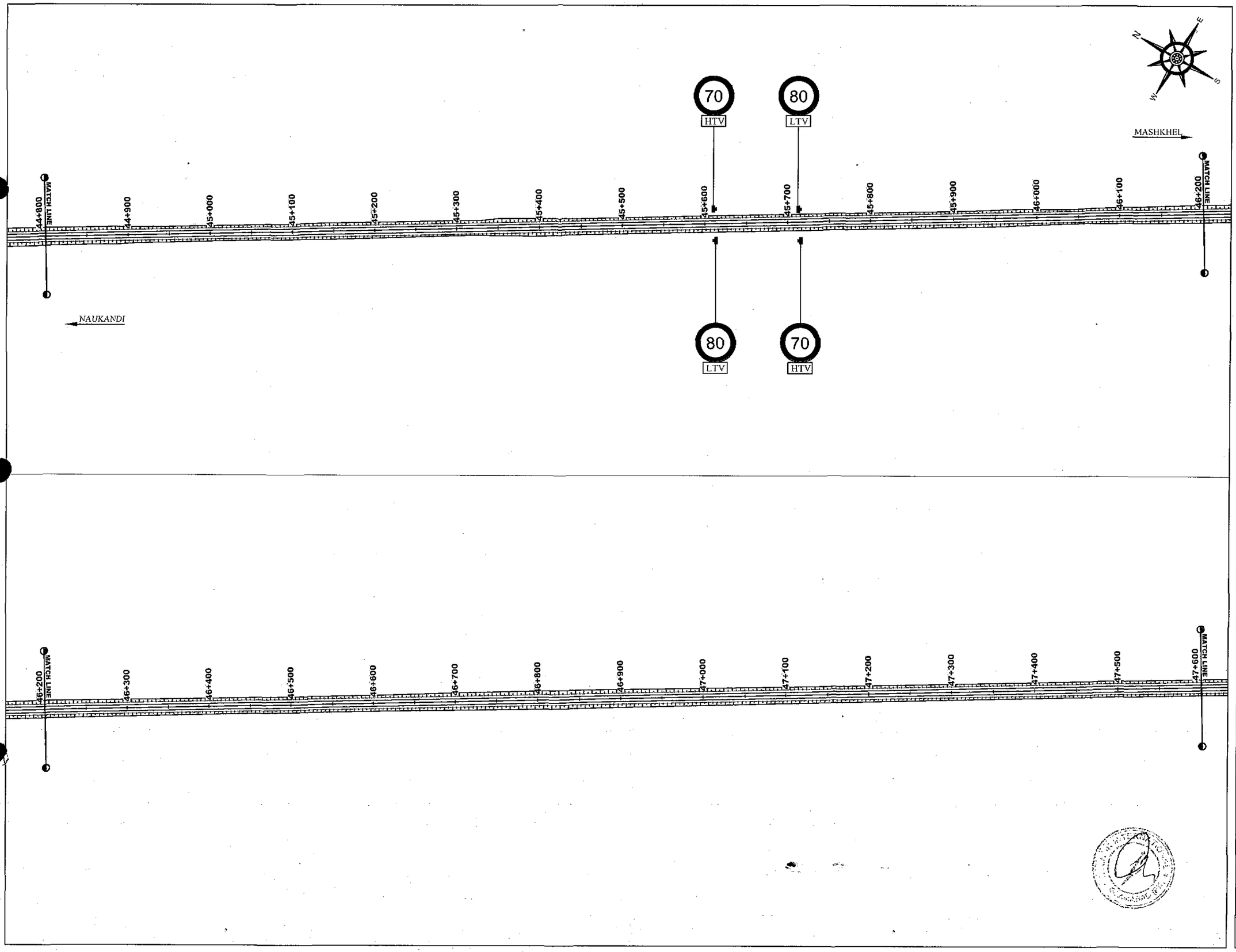
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 42+000 TO 44+800

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	16 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/16



NOTES

REV.	REVISION/ISSUE	DATE
01		
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
2nd Floor, Time Square Plaza,
1-8 Markaz, Islamabad,
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

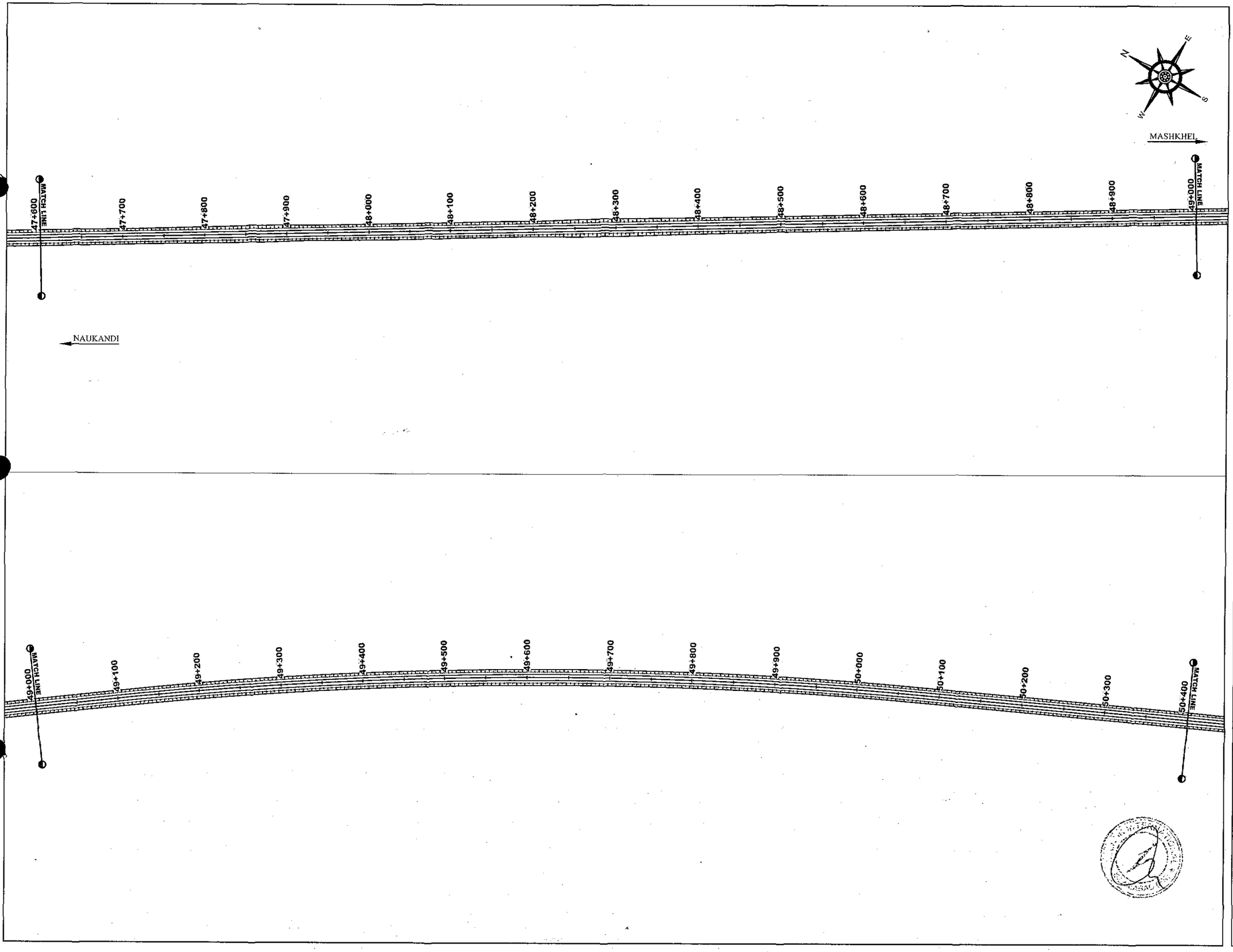
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 44+800 TO 47+600

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	17 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/17



NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

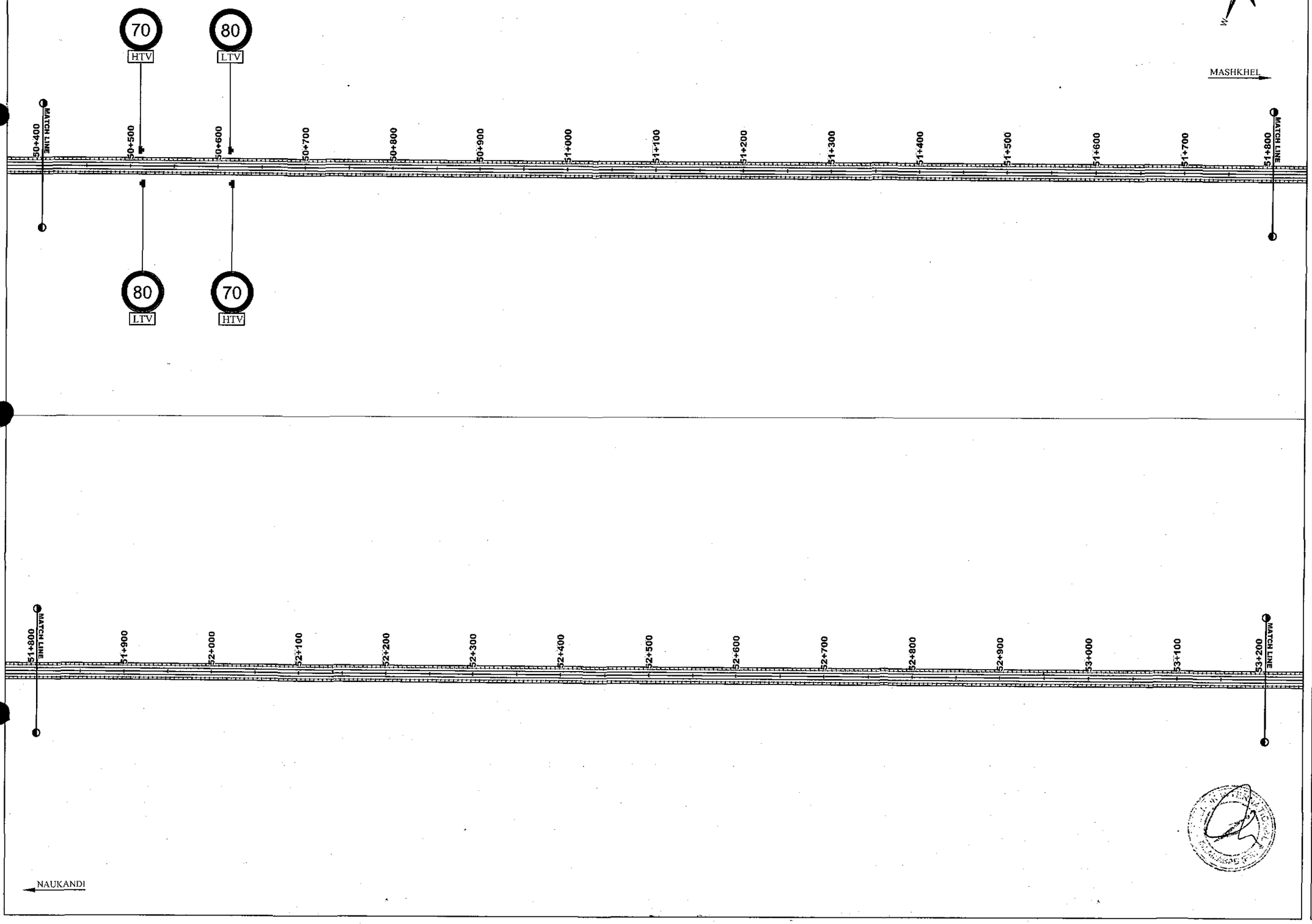
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 47+600 TO 50+400

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	18 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/18



NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

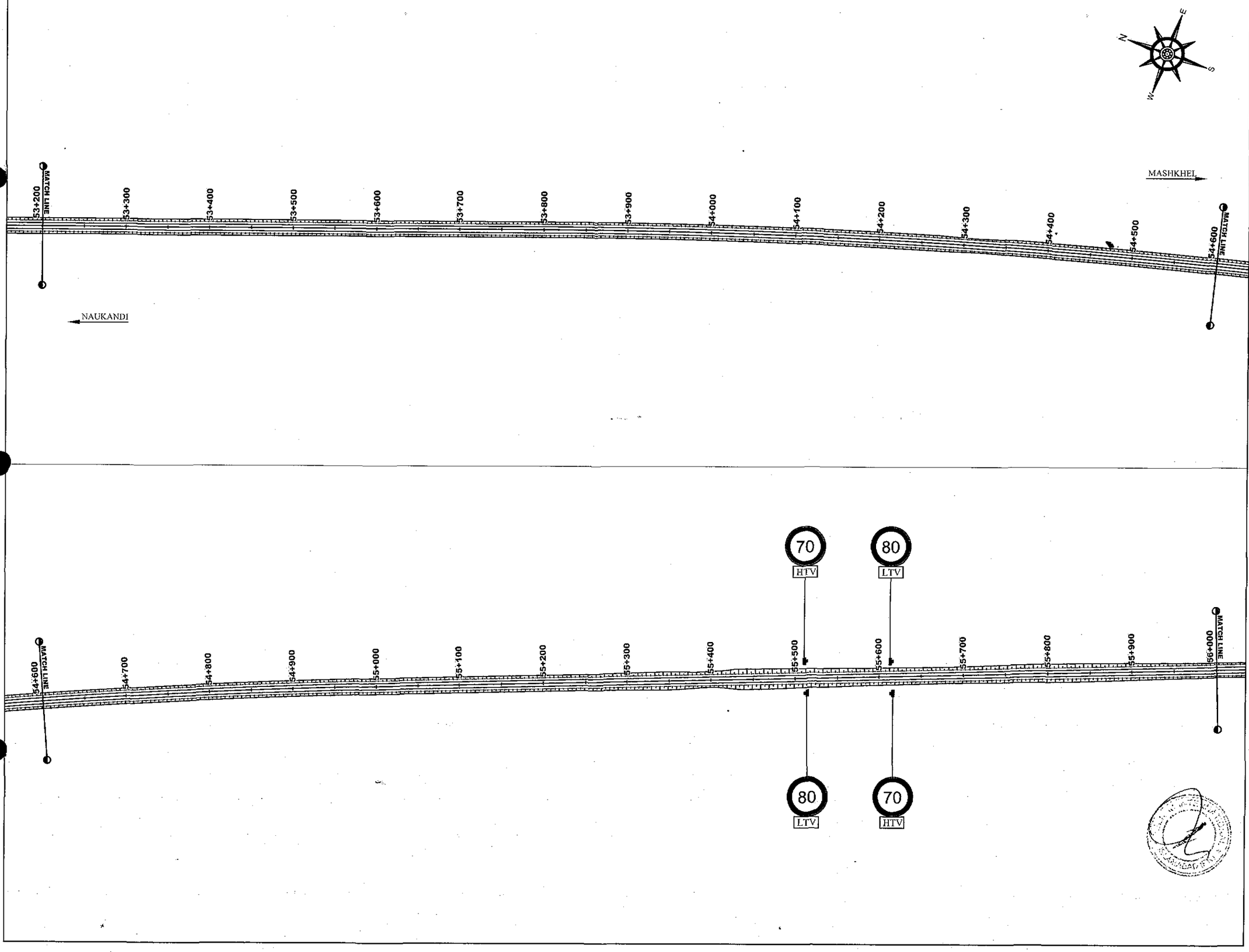
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 50+400 TO 53+200

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	19 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/19



NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Fione Square Plaza,
1-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

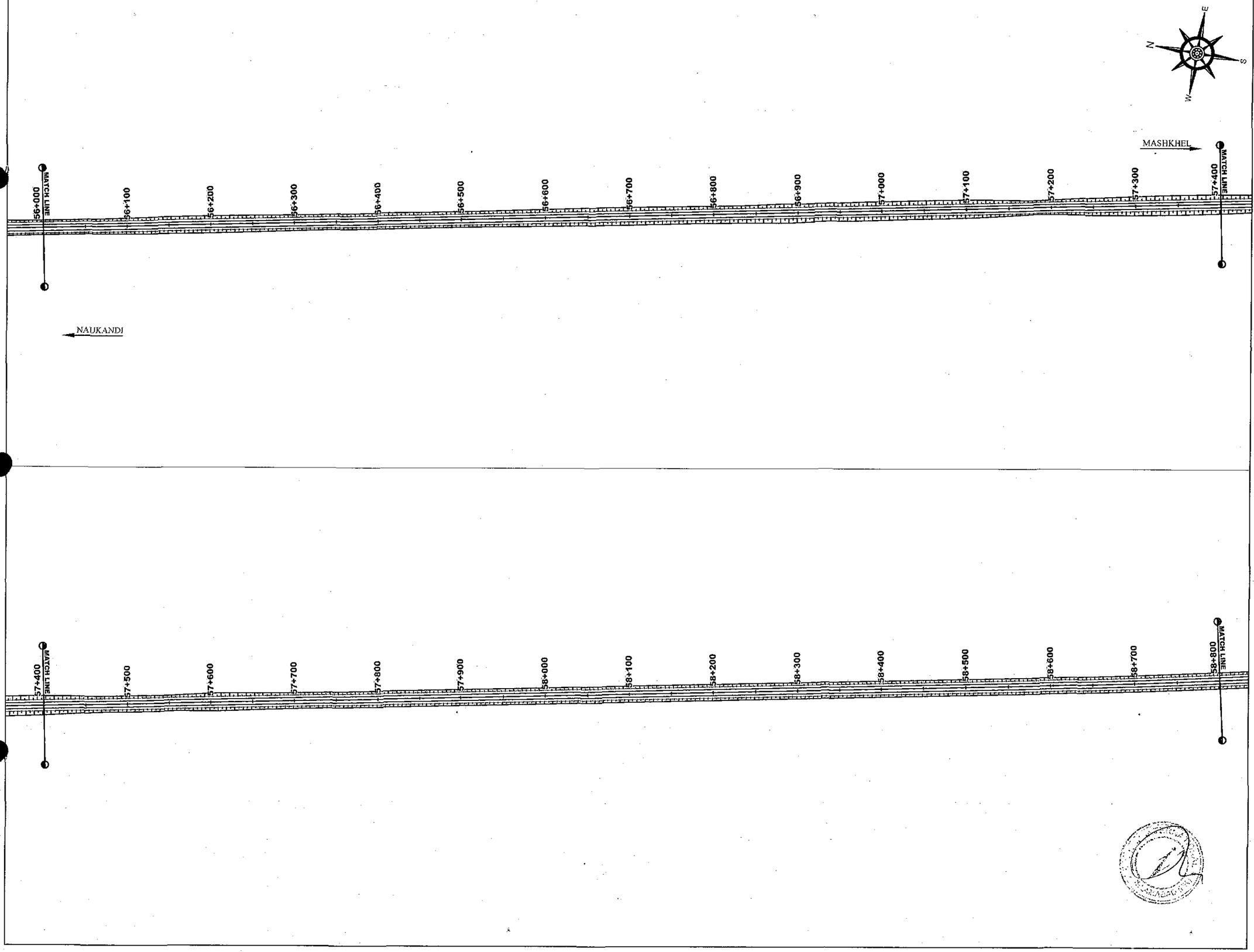
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 53+200 TO 56+000

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	20 of 37
DRAWN BY: RAJA FARHAT	SCALE: N.T.S.
CHECKED BY: DR KAMRAN	DATE: NOV. 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/20



NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

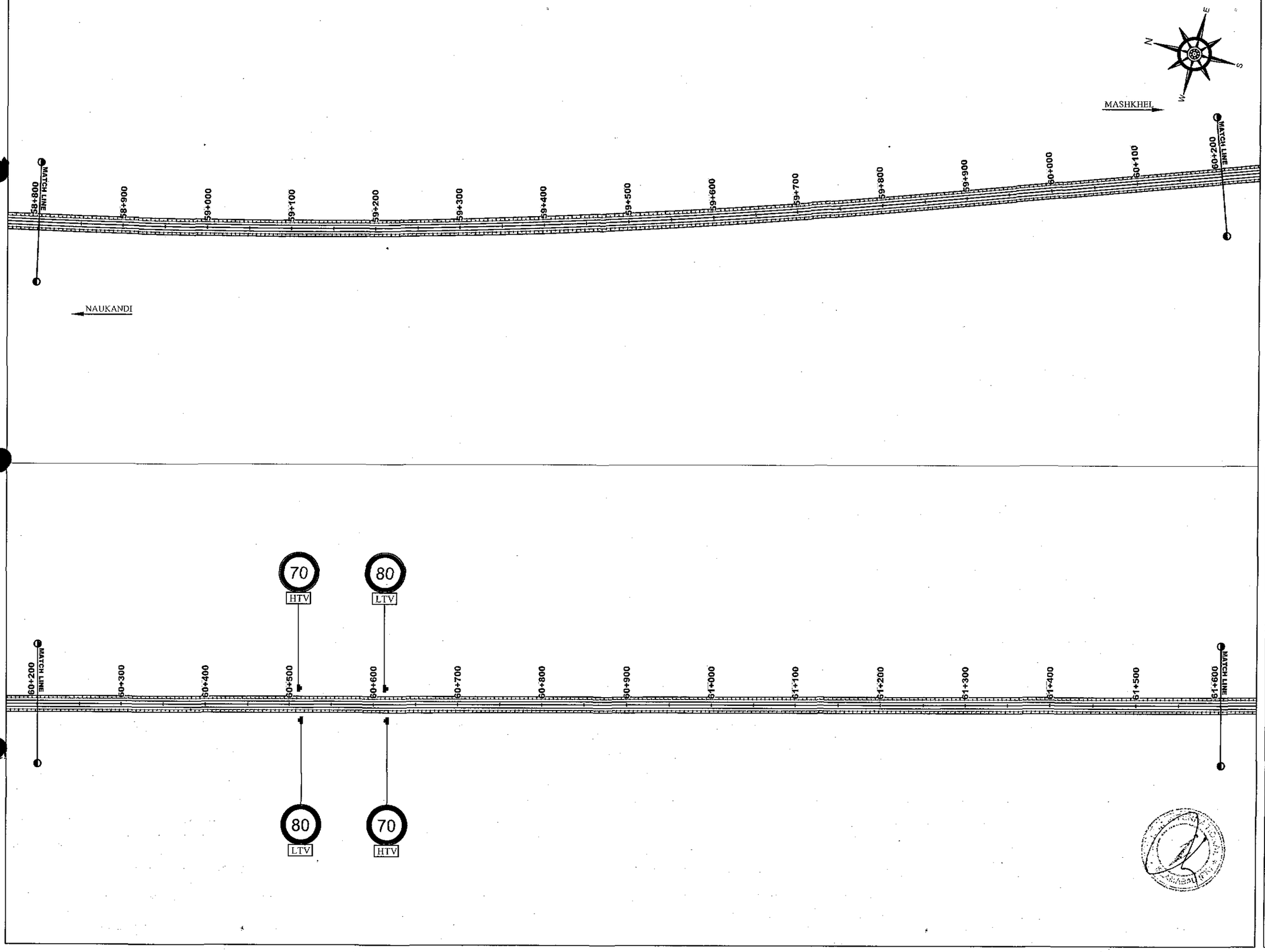
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 56+000 TO 58+800

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	21 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/21



NOTES

REV.	REVISION/ISSUE	DATE
01		
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad,
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER CONSULTANT
& ARCHITECTS.

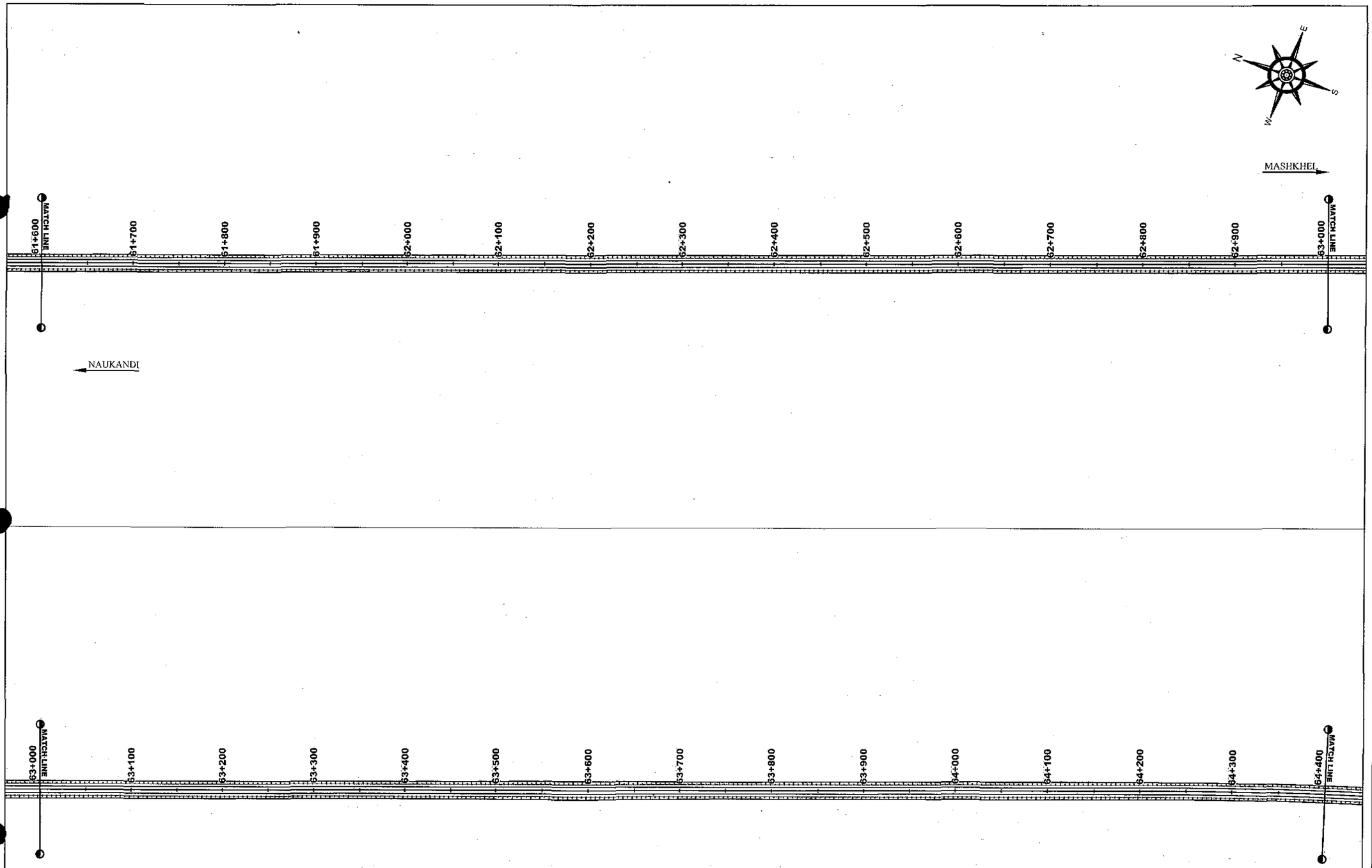
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 58+800 TO 61+600

DESIGN BY: KAMAL SHAHBAZ	SHEET NO: 22 of 37
DRAWN BY: RAJA FARHAT	SCALE: N.T.S.
CHECKED BY: DR KAMRAN	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/22



NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

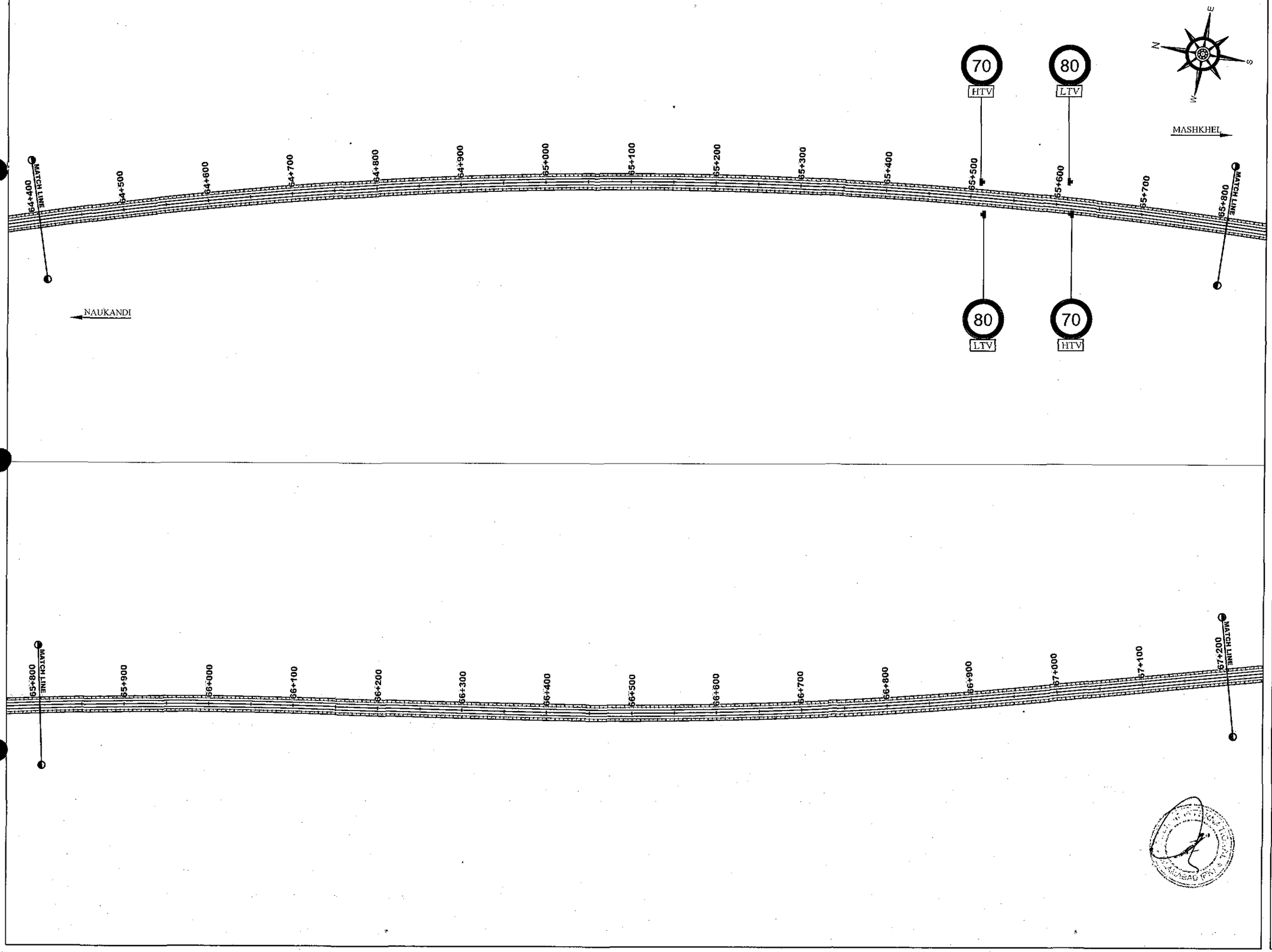
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 61+600 TO 64+400

DESIGN BY: KAMAL SHAHBAZ	SHEET NO: 23 of 37
DRAWN BY: RAJA FARHAT	SCALE: N.T.S.
CHECKED BY: DR KAMRAN	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/23



NOTES

REV.	REVISION/ISSUE	DATE
01		
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

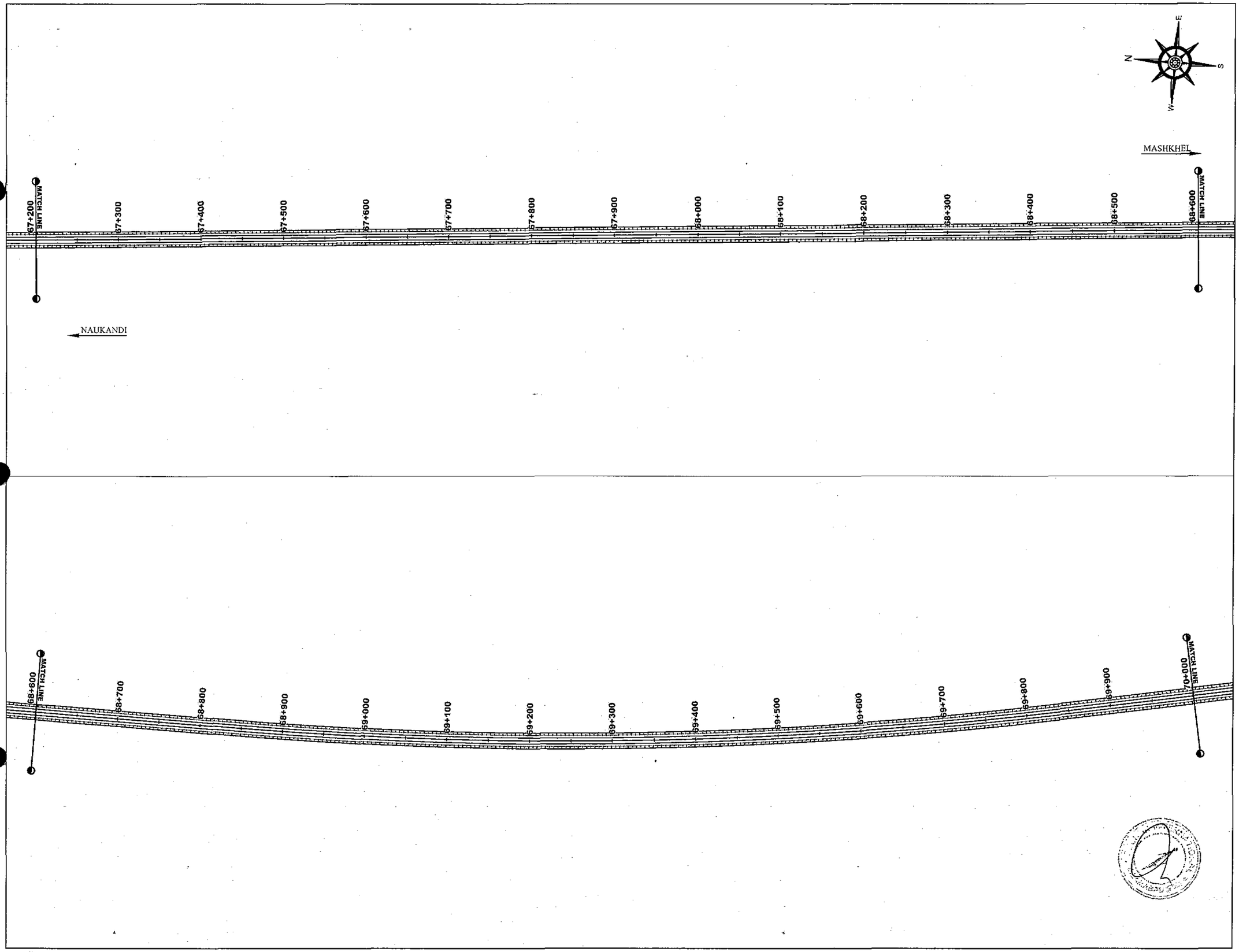
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 64+400 TO 67+200

DESIGN BY: KAMAL SHAHBAZ	SHEET NO: 24 of 37
DRAWN BY: RAJA FARHAT	SCALE: N.T.S.
CHECKED BY: DR KAMRAN	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/24



NOTES

REV.	REVISION/ISSUE	DATE
01		
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

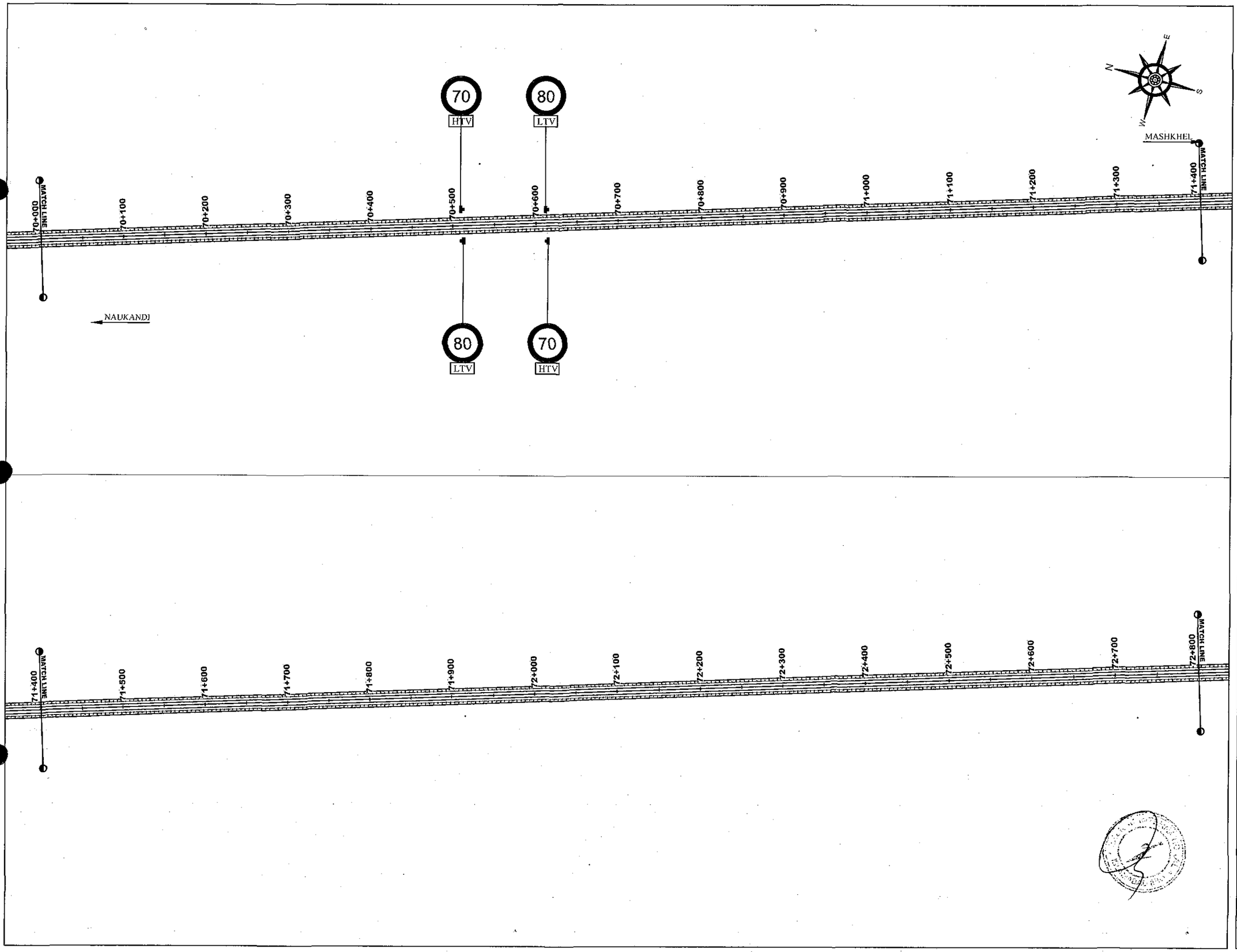
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 67+200 TO 70+000

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	25 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/25



NOTES

REV.	REVISION/ISSUE	DATE
01		
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD.
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

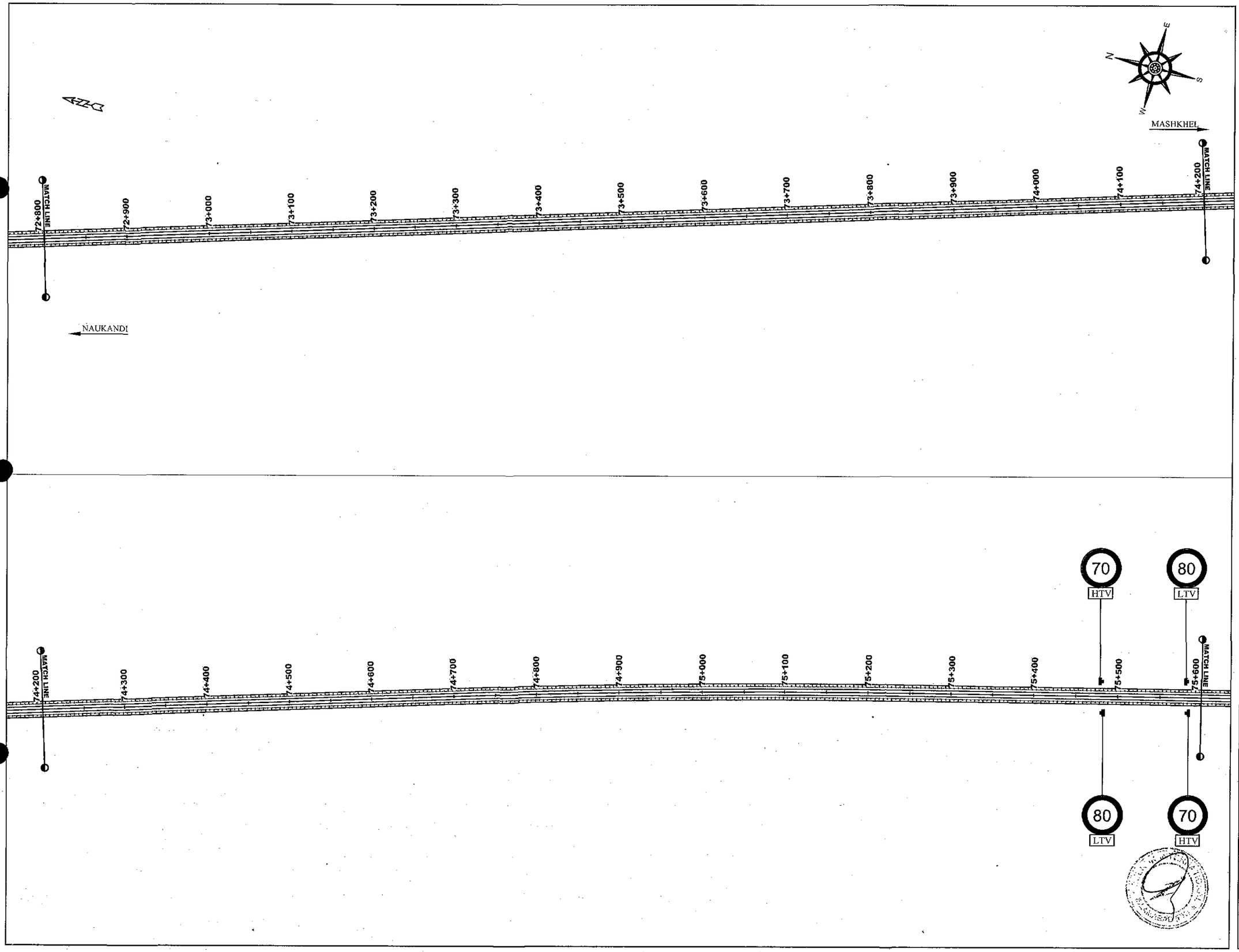
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 70+000 TO 72+800

DESIGN BY: KAMAL SHAHBAZ	SHEET NO: 26 of 37
DRAWN BY: RAJA FARHAT	SCALE: N.T.S.
CHECKED BY: DR KAMRAN	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/26



NOTES

REV.	REVISION/ISSUE	DATE
01		
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

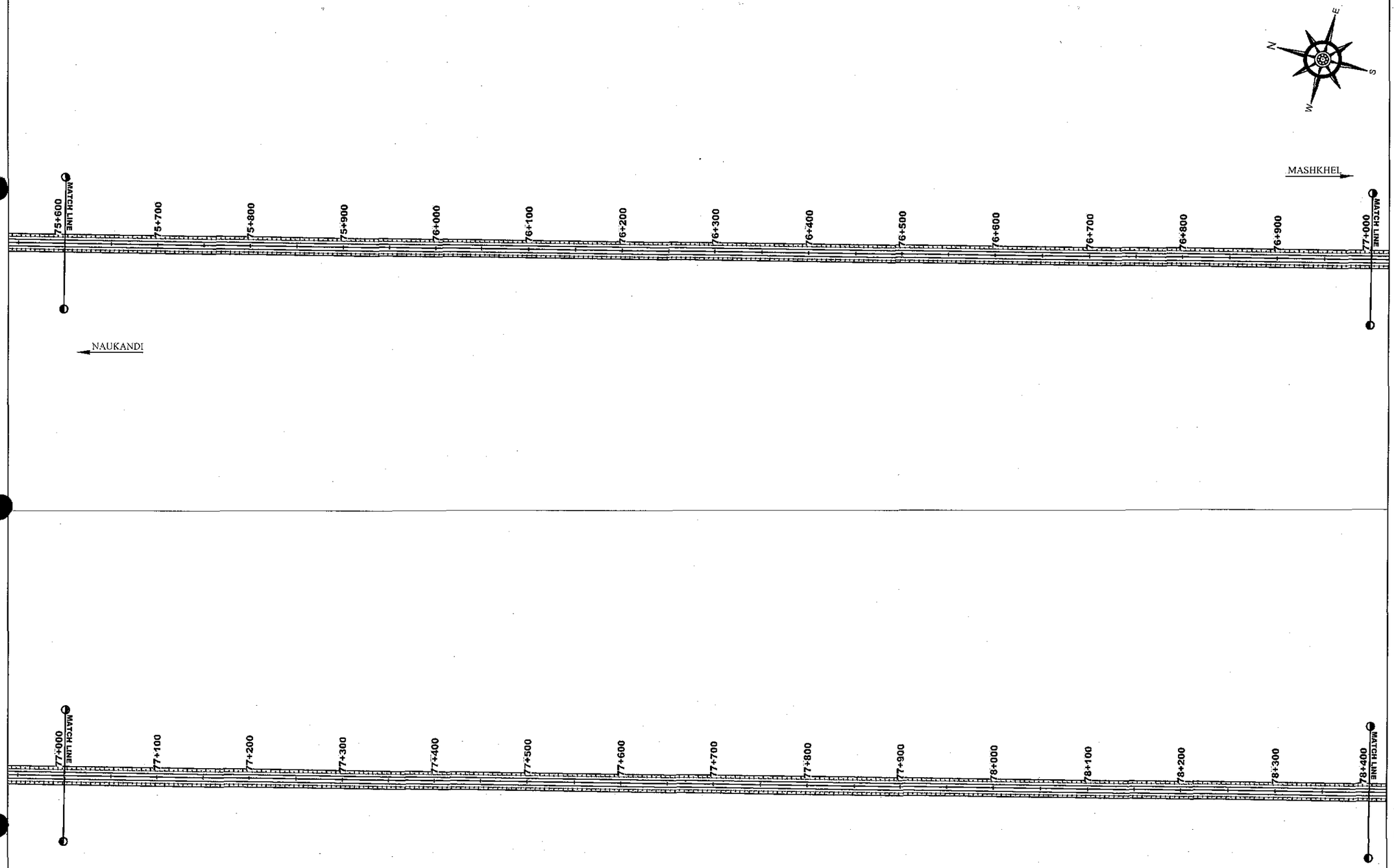
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 72+800 of 75+600

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	27 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV. 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/27



NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

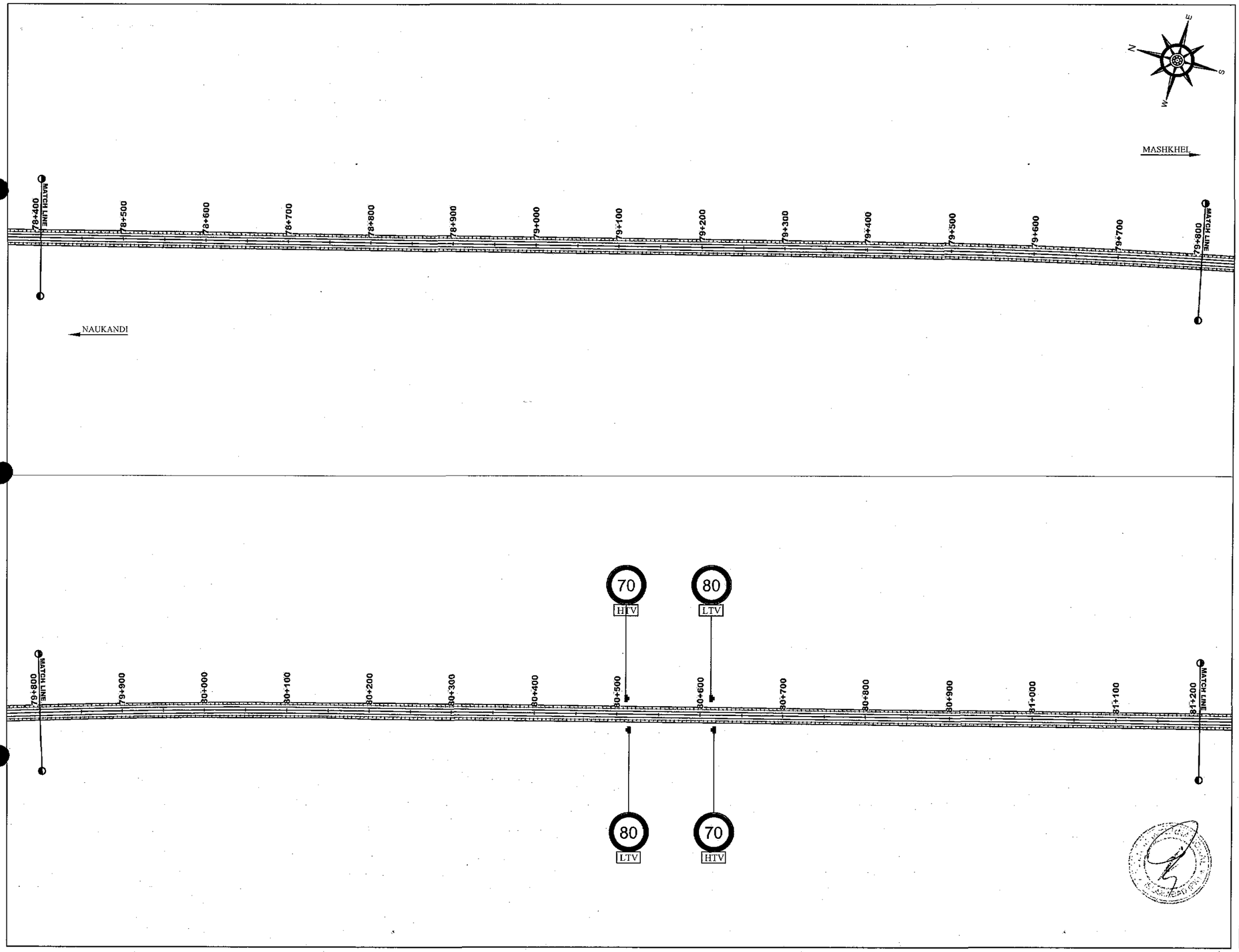
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 75+600 TO 78+400

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	28 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/28



NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

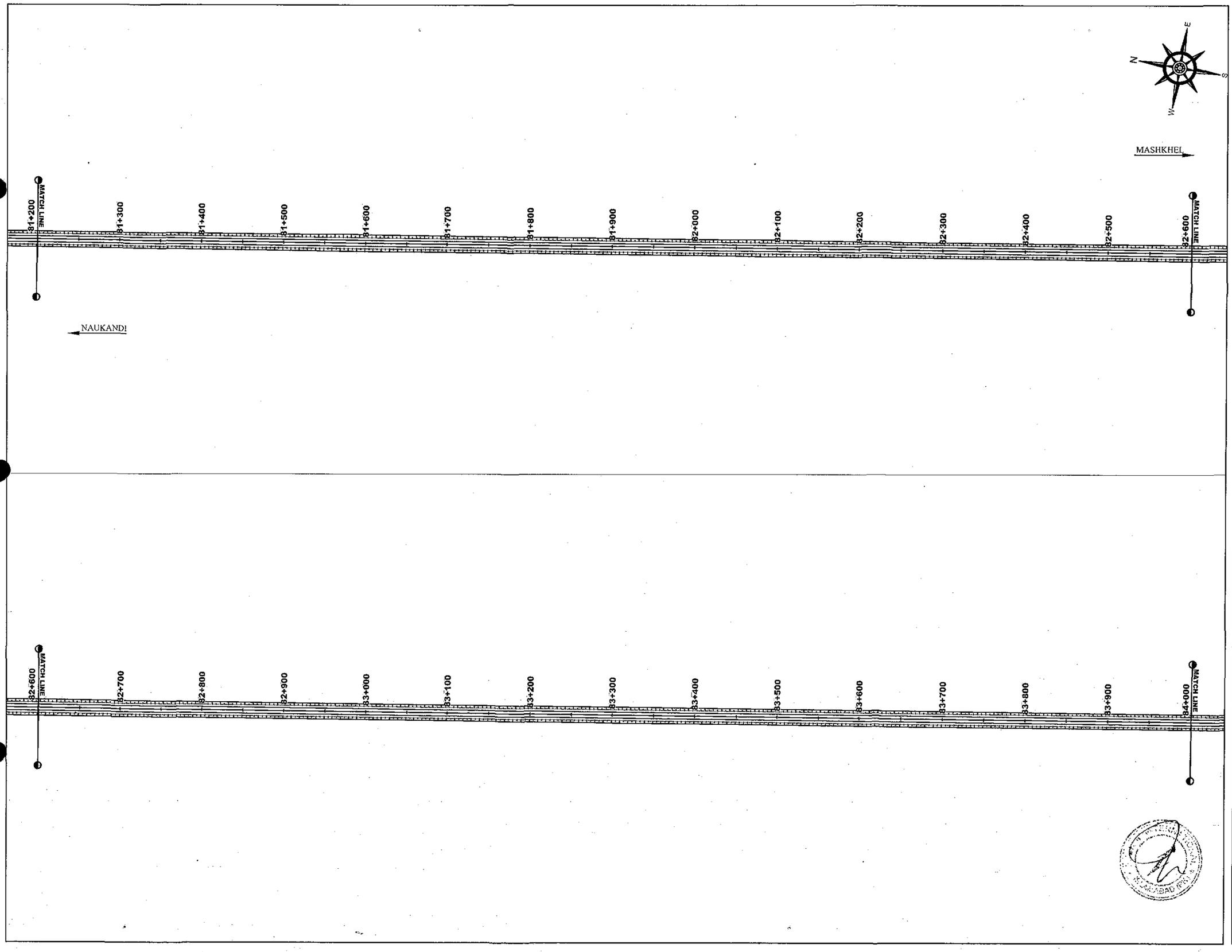
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 78+400 TO 81+200

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	29 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/29



NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

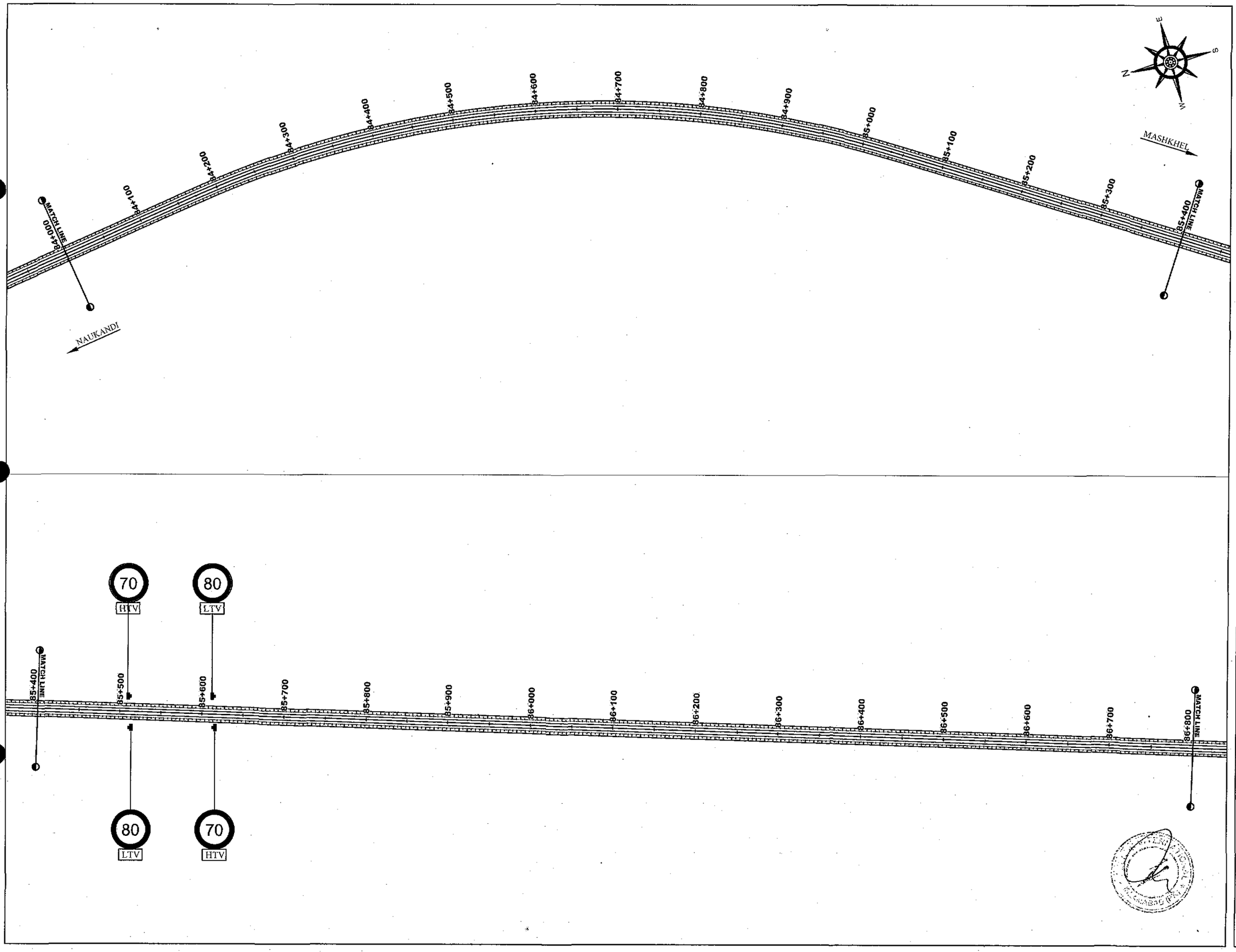
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 81+200 TO 84+000

DESIGN BY: KAMAL SHAHBAZ	SHEET NO: 30 of 37
DRAWN BY: RAJA FARHAT	SCALE: N.T.S.
CHECKED BY: DR KAMRAN	DATE: NOV. 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/30



NOTES

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

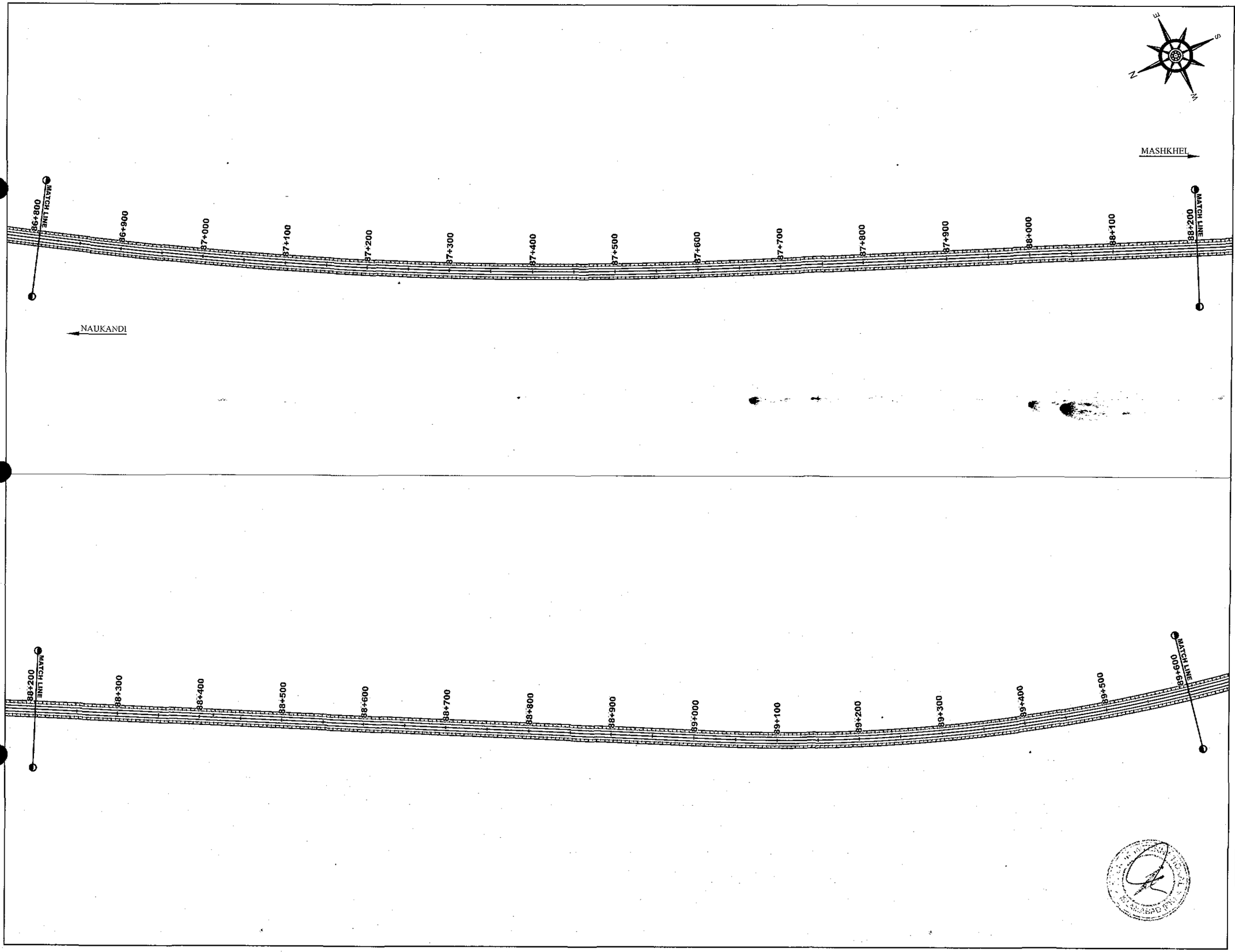
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 84+000 TO 86+800

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	31 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/31



NOTES

REV	REVISION/ISSUE	DATE
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEFRUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markez, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 86+800 TO 89+600

DESIGN BY: KAMAL SHAHBAZ	SHEET NO: 32 of 37
DRAWN BY: RAJA FARHAT	SCALE: N.T.S.
CHECKED BY: DR KAMRAN	DATE: NOV. 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

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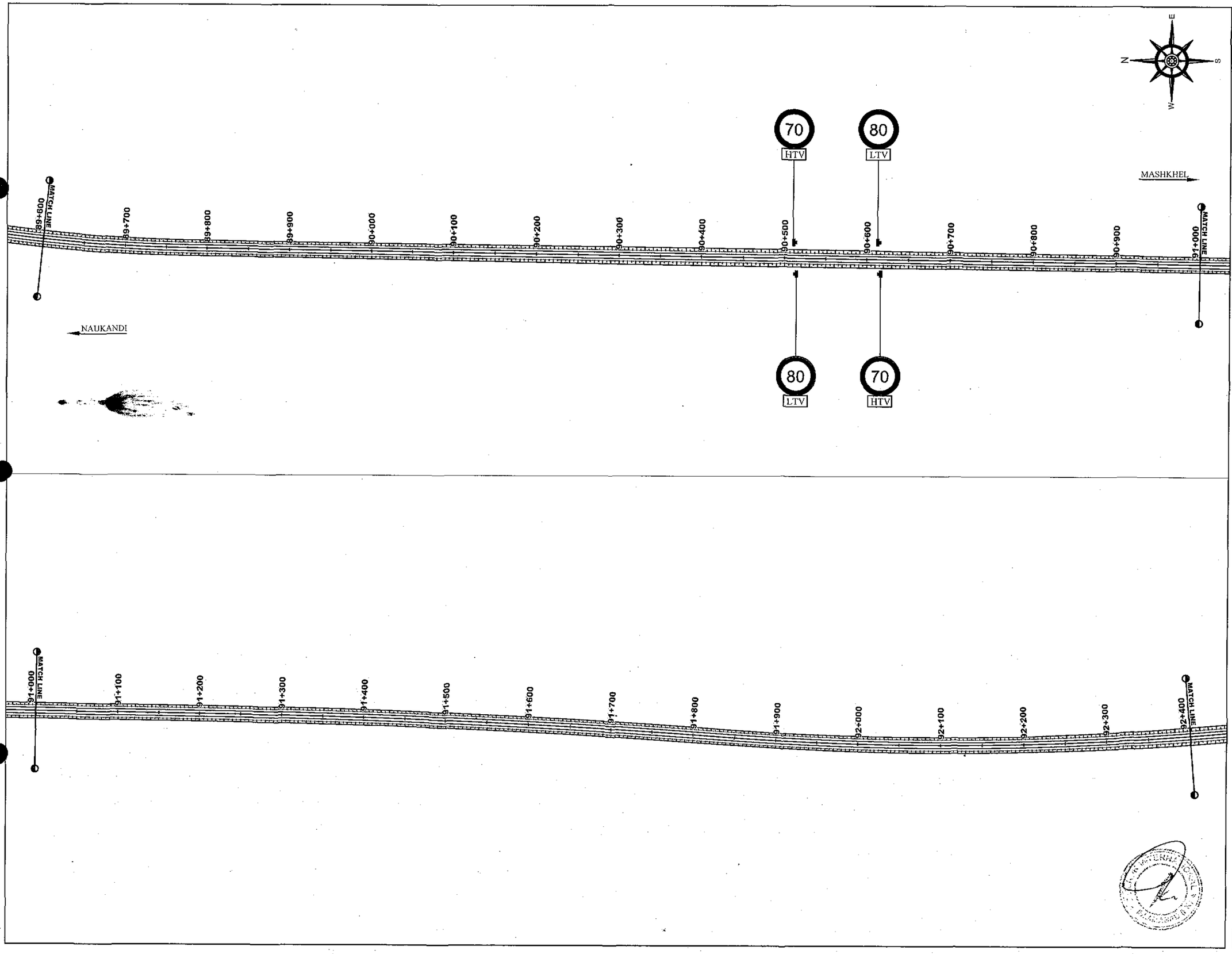

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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

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NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

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IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER CONSULTANT
& ARCHITECTS

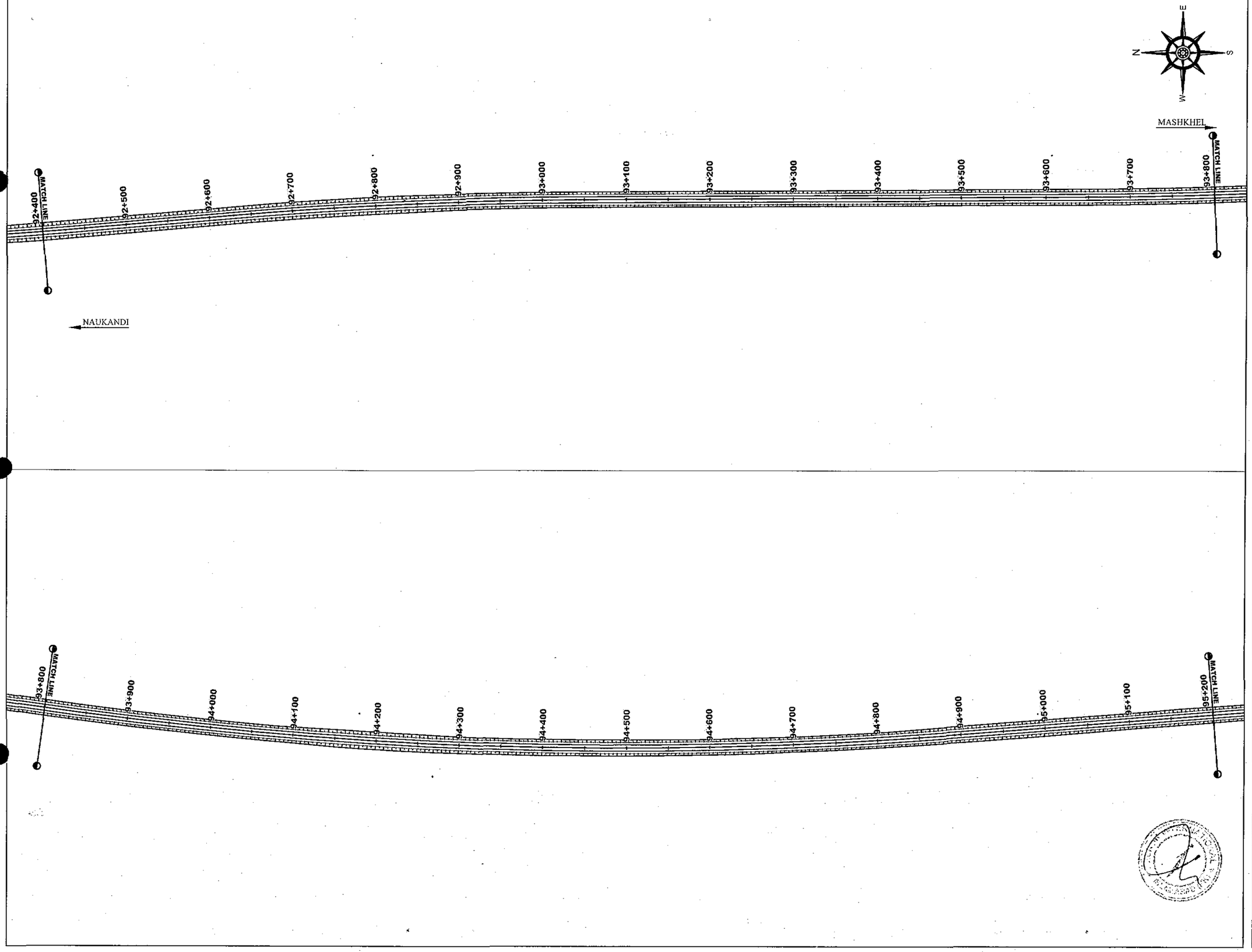
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 89+600 TO 92+400

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	33 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/33



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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

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IN ASSOCIATION WITH :

KASIB ASSOCIATES
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& ARCHITECTS.

DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 92+400 TO 95+200

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	34 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

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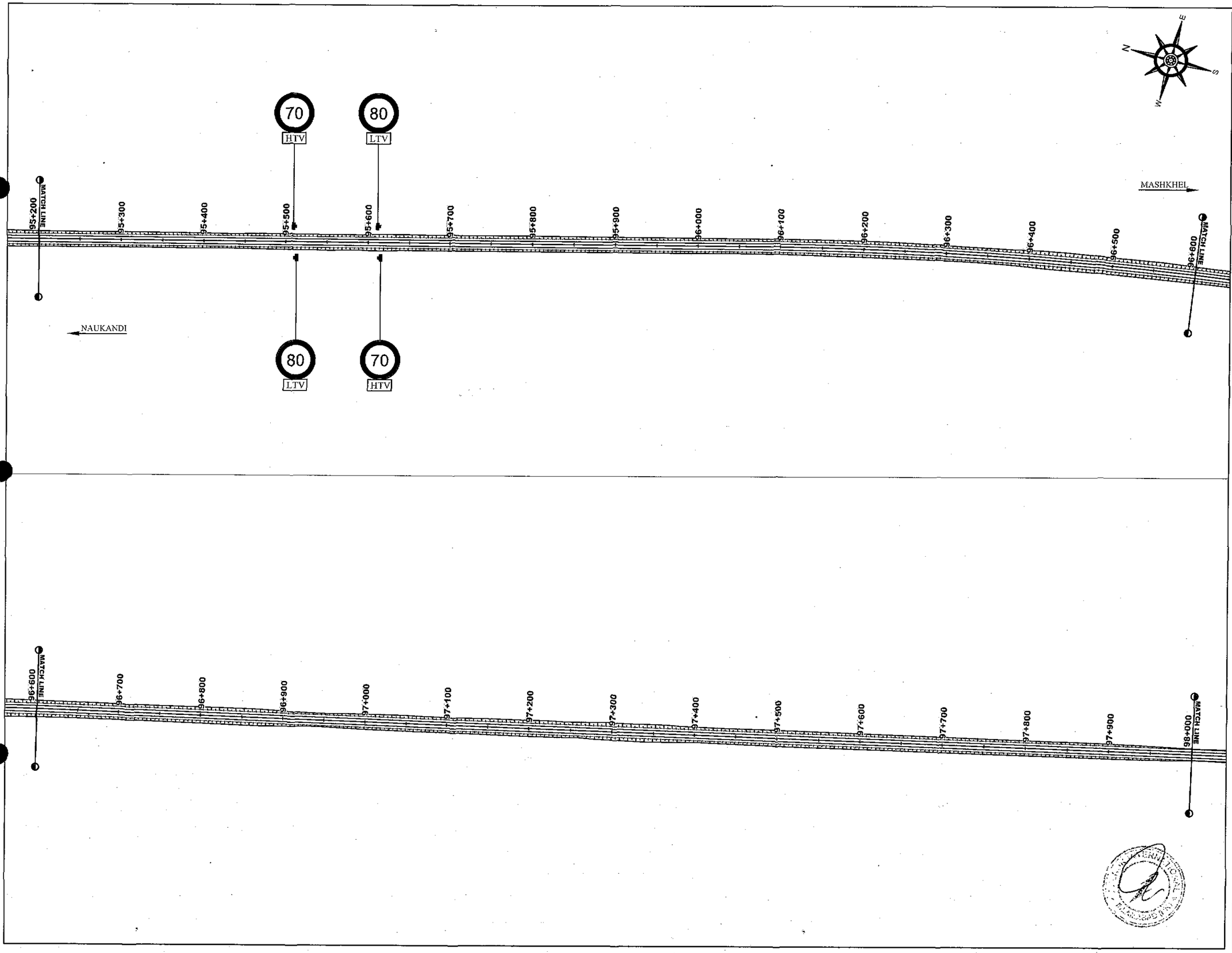

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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

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NATIONAL HIGHWAY AUTHORITY
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IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 95+200 TO 98+000

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	35 of 37
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV. 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

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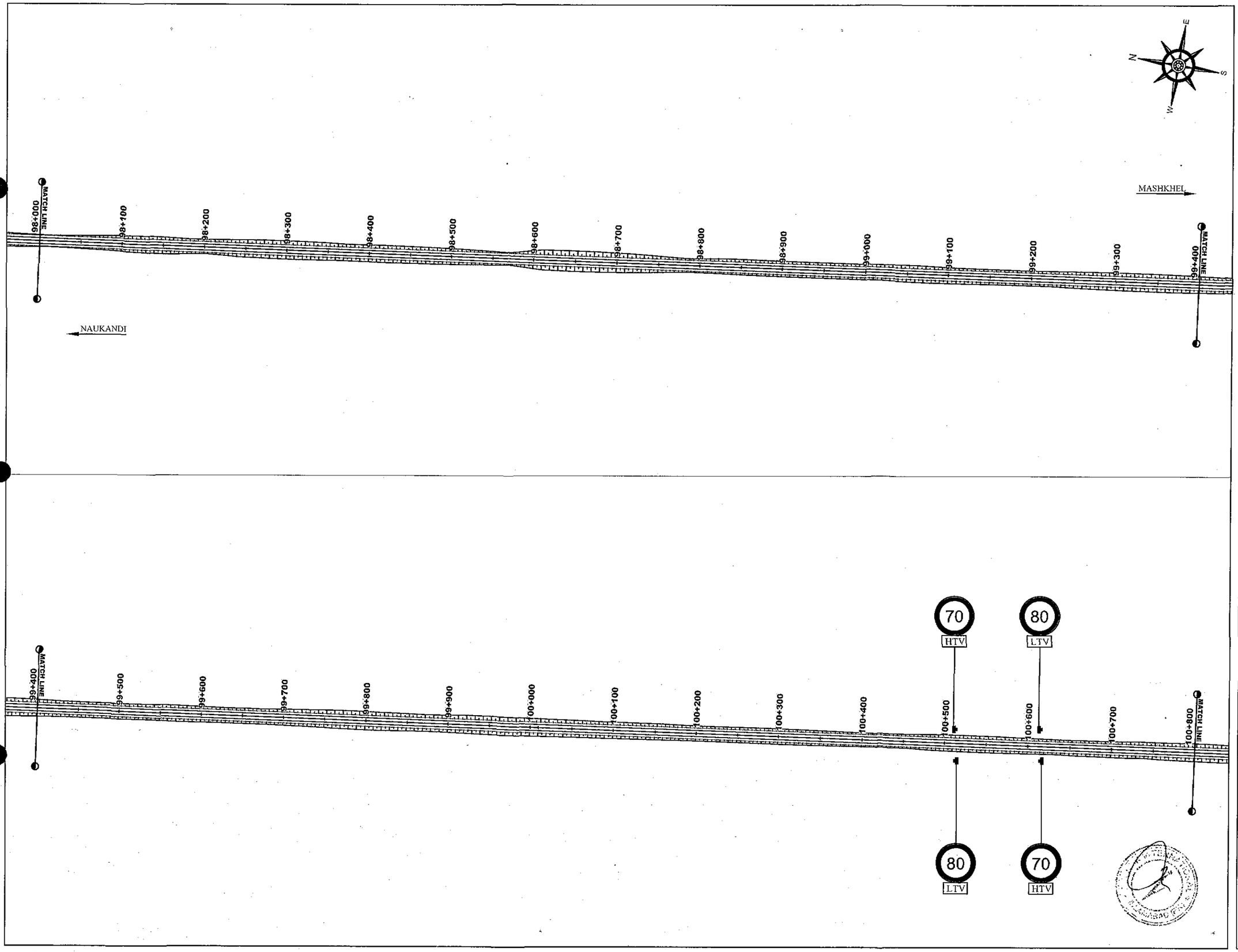

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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
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NATIONAL HIGHWAY AUTHORITY
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IN ASSOCIATION WITH :

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& ARCHITECTS.

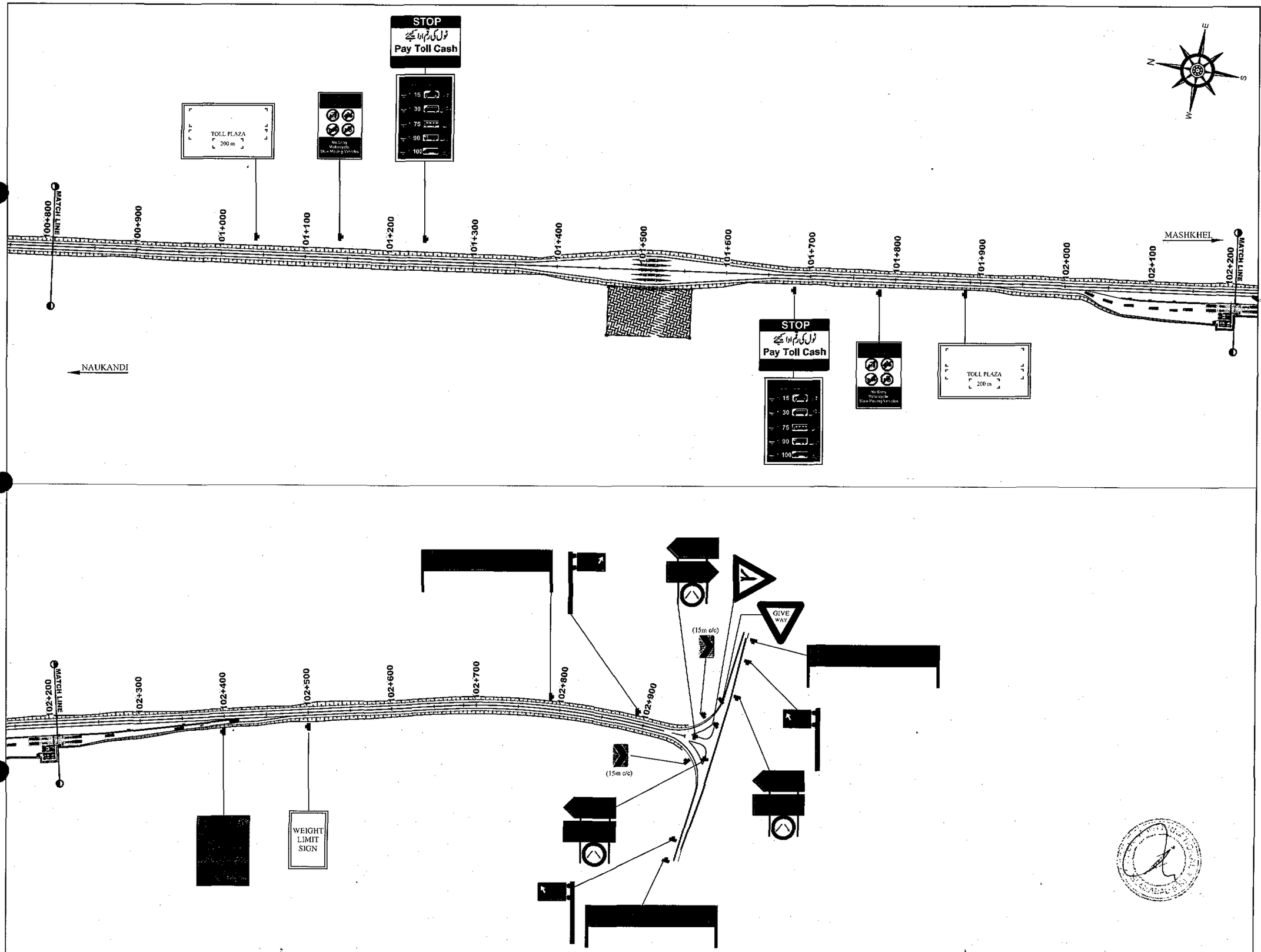
DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 98+000 TO 100+800

DESIGN BY: KAMAL SHAHBAZ	SHEET NO: 36 of 37
DRAWN BY: RAJA FARHAT	SCALE: N.T.S.
CHECKED BY: DR KAMRAN	DATE: NOV, 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/36



NOTES

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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
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IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 100+800 TO 102+950

DESIGN BY: KAMAL SHAHBAZ	SHEET NO: 37 of 37
DRAWN BY: RAJA FARHAT	SCALE: N.T.S.
CHECKED BY: DR KAMRAN	DATE: NOV. 2020
APPROVED BY: M. ANWAR	REVISION: REV. 00

CAD FILE NAME:

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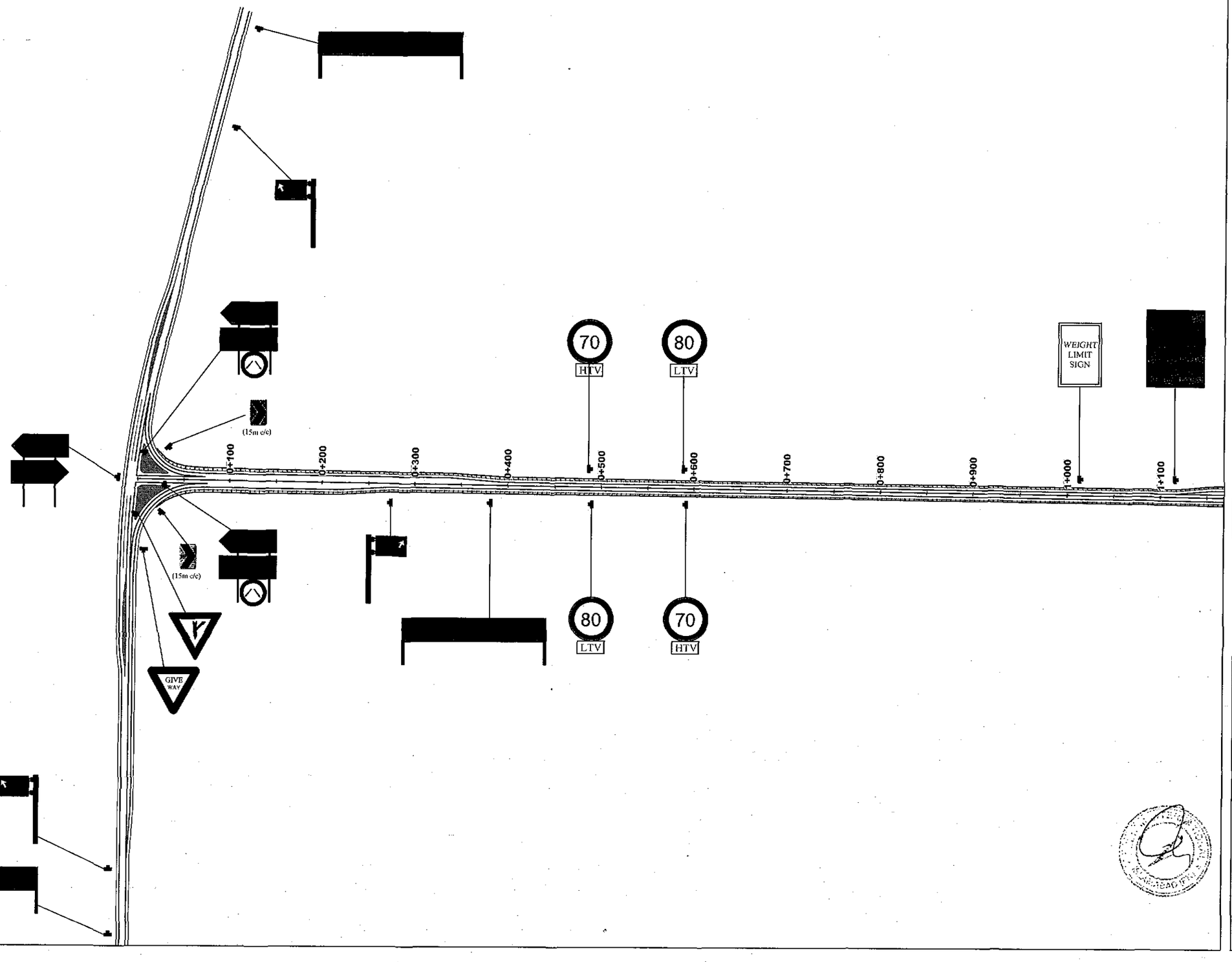

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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

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MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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IN ASSOCIATION WITH :

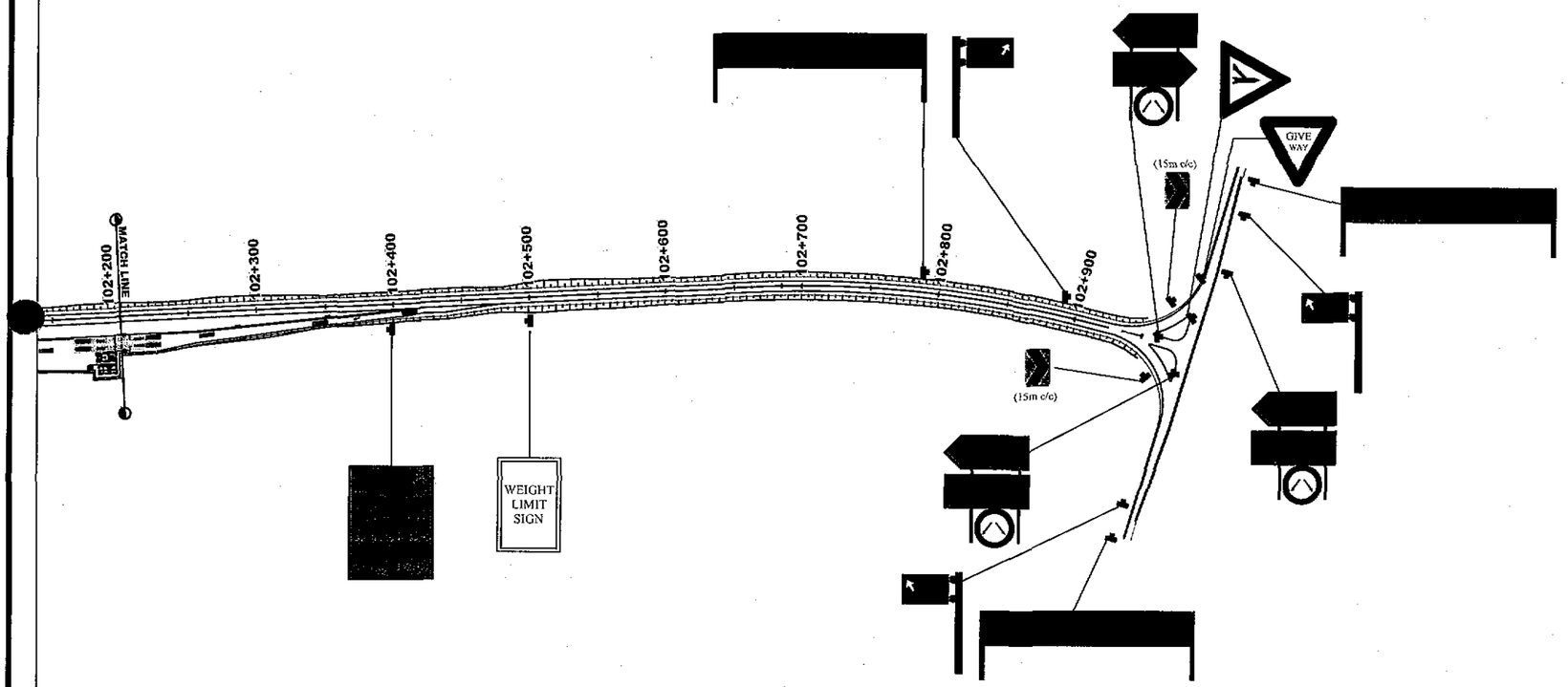
KASIB ASSOCIATES
ENGINEER-CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 0+000

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	01 of 01
DRAWN BY:	SCALE:
RAJA FARHAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV. 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:
ZI/KA/NK/SP/38



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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

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NATIONAL HIGHWAY AUTHORITY
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IN ASSOCIATION WITH :

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ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

TRAFFIC SIGNAGE PLAN
KM 102+950

DESIGN BY:	SHEET NO:
KAMAL SHAHBAZ	01 of 01
DRAWN BY:	SCALE:
RAJA FARIAT	N.T.S.
CHECKED BY:	DATE:
DR KAMRAN	NOV, 2020
APPROVED BY:	REVISION:
M. ANWAR	REV. 00

CAD FILE NAME:

ZI/KA/NK/SP/39

STRUCTURES

DWG. NO.	TITLE
	TITLE SHEET
LD-01	LIST OF DRAWINGS
GN-001	GENERAL NOTES
	PIPE CULVERT
SCH-01	SCHEDULE OF PIPE CULVERT
PC-01/01	GENERAL ARRANGEMENT PLAN & ELEVATION
PC-01/02	PIPE CULVERT X-SECTIONS
PC-01/03	REINFORCEMENT DETAIL
PC-01/04	TRENCHING DETAILS
	BOX CULVERT
SCH-01	SCHEDULE OF BOX CULVERT
BC-01/01	BOX CULVERT DETAIL
BC-01/02	WING WALL DETAIL

NOTES

ALL DIMENSION ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

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IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

LIST OF DRAWINGS

DESIGN BY: BILAL	SHEET NO: 01 TO 01
DRAWN BY: FARRUKH	SCALE:
CHECKED BY: KASHIF	DATE: DEC, 2020
APPROVED BY: INHAM MINHAS	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/STR/LOS/01-01

GENERAL NOTES

1. GENERAL

a. THESE NOTES SHOULD BE READ IN CONJUNCTION WITH RELEVANT CONTRACT CONDITIONS, TECHNICAL SPECIFICATIONS, DRAWINGS AND BILL OF QUANTITIES FOR THE PROJECT.WHEREVER MORE THAN ONE SET OF STANDARDS IS USED TO SPECIFY A MATERIAL, TEST OR LEVEL OF WORKMANSHIP THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS SPECIFICALLY OTHERWISE NOTED. TABLES IN THE SPECIFICATIONS INDICATE FREQUENCY OF TESTING.

b. ALL MATERIALS USED AND WORKMANSHIP INVOLVED IN THE EXECUTION OF ALL WORKS COVERED UNDER THIS CONTRACT SHALL BE IN STRICT CONFORMITY WITH DRAWINGS SPECIFICATIONS & CONTRACT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR QUALITY OF WORKS.

c. ALL DIMENSIONS SHOWN ON DRAWINGS ARE IN mm AND LEVELS IN METERS UNLESS NOTED OTHERWISE.

d. WHERE REFERENCE STANDARDS FOR TESTING MATERIALS AND WORKMANSHIP ARE NOT EXPLICITLY STATED ON THE DRAWINGS AND CONTRACT DOCUMENTS, LATEST RELEVANT STANDARDS OF AASHTO, ASTM OR BS SHALL BE APPLICABLE AS INSTRUCTED BY THE ENGINEER.

e. CONTRACTOR SHOULD INFORM THE CLIENT AND OBTAIN CLEARANCE FROM CONCERNED AGENCIES BEFORE STARTING WORK ON BRIDGE FOUNDATIONS.

f. ALL RIP RAP DETAILS TO BE PROVIDED IN ACCORDANCE WITH HYDROLOGICAL REQUIREMENTS AND SPECIFICATIONS.

g. LENGTHS OF UNDERGROUND STRUCTURES SHALL BE MODIFIED TO CONSIDER ACTUAL RATIO OF STRUCTURE WITH RESPECT TO HIGHWAY ALIGNMENT.

h. BOTTOM SLAB OF CULVERT SHOULD HAVE A MINIMUM LONGITUDINAL SLOPE OF 1.0%

I. ADD PREMOULDED BITUMEN IMPREGNATED FIBER BOARD IN BETWEEN GIRDER AND SHEAR KEY

J. EPOXY TO BE PROVIDED BETWEEN BEARING PAD AND PEDESTAL TO AVOID DISLOCATION OF BEARING PAD FROM ORIGINAL POSITION

k. SETTING OUT

FINAL RESPONSIBILITY FOR PRECISE AND ACCURATE SETTING OUT OF THE WORKS INCLUDING STRUCTURES & APPROACH EMBANKMENTS, TRAINING WORKS AND ALLIED WORKS RESTS SOLELY WITH THE CONTRACTOR. IF NECESSARY, CONTRACTOR SHALL CARRY OUT A DETAILED CLOSED TRAVERSE SURVEY ALONG THE PROPOSED ALIGNMENT CROSS-REFERENCED TO SURVEY OF PAKISTAN COORDINATE GRID OR SURVEY MONUMENTS ERECTED BY THE CONSULTANT AT SITE.

2. BRIDGE STRUCTURE

a. DESIGN LOADS

1) DESIGN IS BASED ON AASHTO 2017 AND ACI-318-19
2) THE BRIDGE IS DESIGNED FOR LOADING HL-93, AND WEST PAKISTAN HIGHWAY CLASS A AND AA LOADING.
3) SEISMIC LOADS:-
SEISMIC ZONE 2B BCP SP-2007
4) ALL OTHER LOADS AS PER AASHTO 2017

b. MATERIALS & WORKMANSHIP

ALL MATERIALS AND WORKMANSHIP SHALL MEET RELEVANT AASHTO/ASTM AND BRITISH STANDARDS AS DETAILED IN THE SPECIFICATIONS AND SUBJECT TO THE ENGINEER.'S INSTRUCTIONS

1) CEMENT

CEMENT SHALL BE ORDINARY PORTLAND CEMENT FOR STRUCTURE ABOVE GROUND AND SULPHATE RESISTING FOR STRUCTURE UNDERGROUND. (SR/SSR) ACCORDING TO APPROVED SPECIFICATIONS.
SOURCE OF CEMENT SHALL BE APPROVED BY THE ENGINEER..

2) CONCRETE

THE FOLLOWING TYPES OF CONCRETE SHALL BE USED FOR ALL STRUCTURAL & NON STRUCTURAL COMPONENTS OF THE BRIDGE AND APPROACHES AS PER NHA GENERAL SPECIFICATIONS:

COMPONENT	CONCRETE TYPE	MINIMUM CEMENT CONTENT kg/m³	MAXIMUM WATER/ CEMENTITIOUS MATERIALS (W/C) RATIO	CYLINDER STRENGTH kg/cm²	CYLINDER STRENGTH psi
LEAN CONCRETE	–	175	–	100	1500
PILES, PILE CAP, FOOTING, WING WALL, CURTAIN WALL,	A3	400	0.58	280	4000
TRANSOMS, RETAINING & ABUTMENT WALL	A3	400	0.58	280	4000
CULVERT,WING WALL UNDER PASSES & CATTLE CREEPS	A3	400	0.58	280	4000
CONCRETE PAD, SHEAR KEY, RETAINER BLOCK,	A2	350	0.66	245	3500
COLUMNS& TIE BEAM	A3	400	0.58	280	4000
APPROACH SLAB, BARRIER & SLEEPER SLAB	A1	300	0.56	210	3000
DECK SLAB & DIAPHRAGM	A3	400	0.58	280	4000
PRESTRESSED GIRDER	D2	500	0.40	425	6000

TO INCREASE SETTING TIME OR WORKABILITY, ADMIXTURE APPROVED BY THE QA/QC ENGINEER. MAY BE USED AFTER DETERMINING QUANTITY AT MIX DESIGN STAGE
CONTRACTOR IS ENCOURAGED TO USE CORROSION INHIBITOR ADMIXTURE IN ALL TYPES OF STRUCTURAL CONCRETE.

2a. LIST OF SYMBOLS AND ABBREVIATIONS:

A_P	=	THEORETICAL ELONGATION OF PRESTRESSING TENDON
B	=	BOTTOM
BOS	=	BOTTOM OF SLAB
○ B.H	=	BORE HOLE
C. JT.	=	CONSTRUCTION JOINT
℄	=	CENTRELINE
C/C	=	CENTER TO CENTER
DIA.	=	DIAMETER
EXP. JT.	=	EXPANSION JOINT
E.F	=	EACH FACE
EL.	=	ELEVATION
F.F	=	FAR FACE
GI	=	GALVANIZED IRON
GUTS	=	GUARANTEED ULTIMATE STRENGTH (OF PRESTRESSING CABLES)
ID	=	INTERNAL DIAMETER
I.F	=	INNER FACE
m	=	METRE
mm	=	MILLIMETRE
N.F	=	NEAR FACE
NSL	=	NATURAL SURFACE LEVEL
PGL	=	PROFILE GRADE LEVEL
RD.	=	REDUCED DISTANCE.
SYM.	=	SYMMETRICAL
T	=	TOP
TH.	=	THICK
TYP.	=	TYPICAL
θ	=	SKEW ANGLE IN DEGREE
TOS	=	TOP OF SLAB
TOW	=	TOP OF WALL

3) CONCRETE COVER

MINIMUM CONCRETE COVER TO THE NEAREST BAR FROM THE CONCRETE SURFACE SHALL BE AS FOLLOWS UNLESS OTHERWISE SPECIFIED.

COMPONENT	TOP (mm)	BOTTOM (mm)	SIDE (mm)	EARTH FACE (mm)
PILES/PILES IN WATER	–	–	75/100	75/100
ABUTMENT WALL	50	50	50	75
WING WALL, CURTAIN WALL	50	50	50	75
PIER/PIER IN WATER	–	–	50/100	75
TRANSOM & TIE BEAM	50	50	50	75
APPROACH SLAB	40	40	30	50
BARRIER, KERB	40	40	40	–
FOOTING	30	30	30	–
DECK SLAB	40	25	25	–
DIAPHRAGM	25	40	25	–
PRESTRESSED GIRDER	40	25	25	–

4) CONCRETE FINISH

ALL EXPOSED CONCRETE SURFACES ABOVE GROUND SHALL HAVE "FAIR FACE" FINISH.
ALL SHARP EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 25mm
ALL FORMWORK SHALL BE OF SMOOTH STEEL PLATES PROPERLY STRENGTHENED & BRACED AGAINST WAVES BUCKLING/UNDULATIONS

5) REINFORCING STEEL

ALL REINFORCING STEEL BARS SHALL BE ROLLED FROM PRIME GRADE PAKISTAN STEEL BILLETS. REINFORCEMENT ROLLED FROM SCRAP STEEL RAILS, SHIP PLATES OR RE-ROLLED BILLETS SHALL NOT BE USED. MANUFACTURER'S CERTIFICATE/ SHIPMENT PASS FOR THE PROJECT SITE SHALL ACCOMPANY EACH BATCH. SUPPLIER'S INVOICES SHALL NOT BE ACCEPTABLE AS SOURCE OF SUPPLY.

ALL BARS MARKED ON DRAWINGS SHALL BE DEFORMED BARS WITH MINIMUM YIELD STRENGTH OF 420 MPa (APPROX 60 ksi) CONFORMING TO AASHTO M-31, ASTM A615/A 615 M.

UNLESS OTHERWISE SHOWN ON THE DRAWINGS, SPLICES IN REINFORCING BARS SHALL BE STAGGERED. MINIMUM LENGTH OF LENGTH OF SPLICE SHALL BE 48 TIMES THE LARGER BAR DIAMETER SPLICED.

THE CONTRACTOR SHALL PREPARE ALL BAR BENDING SCHEDULE AND SUBMIT THEM FOR APPROVAL OF THE ENGINEER.'S REPRESENTATIVE BEFORE EXECUTION.

ALL REINFORCING STEEL SHALL BE CORRECTLY LOCATED IN FORMWORK AND HELD FIRMLY IN PLACE BEFORE PLACING OF CONCRETE BY MEANS OF 16 GUAGE BLACK ANNEALED WIRE AND ADEQUATELY DESIGNED SPACERS AND SUFFICIENT SPACERS AND CHAIRS TO HOLD RE-BARS IN POSITION.

6) POST TENSIONING SYSTEM

POST TENSIONING WILL BE DONE BY A RECOGNIZED COMPANY OR SPECIALIZED CONTRACTOR UNDER DIRECT SUPERVISION *OF HIS QUALIFIED PERSONNEL AND THE ENGINEER.*
ALL CABLES SHALL BE STRESSED, SIMULTANEOUSLY FROM BOTH THE ENDS, IN THE ORDER SPECIFIED ON THE DRAWINGS. MAXIMUM PERMISSIBLE STRESS BE ENSURED BEFORE LOCKING
ANY MISHAP LIKE CABLE ELONGATION, LOCKING SLIPPAGE BREAKING OF STRAND/WIRE DURING POST-TENSIONING , UNDER STRESSING OVER STRESSING SHALL BE NOTIFIED IMMEDIATELY TO THE DESIGN CONSULTANT AND THE ENGINEER. IN-CHARGE AT SITE AND THE WORK WILL BE STOPPED ON THAT GIRDER TILL THE ALTERNATE MEASURES ARE SUGGESTED BY THE DESIGN CONSULTANT.
STRAND STEEL OR PRESTRESSING STRAND SHALL BE (LOW RELAXATION)
STRESS RELIEVED CARBON STEEL MANUFACTURED TO AASHTO M-203 (OR ASTM A 416).

7) PRESTRESSING STEEL

PHYSICAL PROPERTIES

MINIMUM TENSILE STRENGTH: 1862 sq.mm OR 270 ksi
0.1% PROOF STRESS. MINIMUM YIELD STRENGTH = 85% OF TENSILE STRENGTH)
MODULUS OF ELASTICITY = 197,000 MPa
MINIMUM TOTAL ELONGATION AT MAXIMUM LOAD = 3.5% (GUAGE LENGTH 600mm MIN)
MAXIMUM STRESS RELAXATION AFTER 1,000 HOURS LOADED TO 70% OF U.T.S = 8.0%
THE GIRDERS SHALL ALWAYS BE KEPT IN UPRIGHT POSITION AND WILL BE LIFTED BY MEANS HOOKS OF APPROVED BY THE ENGINEER. TO ENSURE THEIR PLACEMENT WITHOUT DAMAGE AND ACCIDENT. GIRDERS SHALL BE PLACED AT THEIR CORRECT POSITIONS AS SHOWN ON THE DRAWINGS AND TEMPORARILY BRACED LATERALLY UNTIL DIAPHRAGMS AND DECK SLABS ARE CASTED

IF ANCHORAGE PULL-IN EXCEEDS 6mm, THE TENDON SHALL BE RE-STRESSED BY APPROVED MEANS AND SHALL BE RESTRESSED BY USING NEW SET OF GRIPS.

TENDONS SHALL BE GROUTED AFTER PRESTRESSING WITH NEAT CEMENT GROUT OF 0.45 WATER CEMENT RATIO USING THIXOTROPIC ADDITIVE TO ENSURE AGAINST BLEEDING WHEN INJECTED INTO TENDONS SHEATHS. THE DOSE SHALL BE DETERMINED AS PER RECOMMENDATION OF THE MANUFACTURER BUT SHALL NOT BE MORE THAN 1.5% OF THE WEIGHT OF CEMENT. THE ADDITIVE SHALL BE STORED, HANDLED AND PLACED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. NO OTHER ADDITIVE SHALL BE USED.

THE PRESTRESSED CONCRETE GIRDERS SHALL BE CAST IN ADEQUATELY BRACED STEEL BOTTOM FORMWORK. CASTING OF GIRDERS ON CONCRETE PADS OR STRIPS SUPPORTED ON THE GROUND AS BOTTOM FORMWORK SHALL NOT BE ALLOWED.

ANCHORAGE POCKETS SHALL BE FILLED WITH CLASS A1 CONCRETE USING 10mm DOWN AGGREGATE AFTER GROUTING AND TRIMMING OF TENDONS.

ANY GIRDER ONCE REJECTED BY THE QA/QC ENGINEER. WILL NOT BE ALLOWED TO BE LOAD TESTED OR CORE TESTED FOR ITS APPROVAL FOR SUITABILITY FOR USE IN THE WORK.

SHEATHS FOR THE POST TENSIONED CABLES WILL BE GALVANIZED STEEL, FREE OF RUST PITTING OR HOLES, WITH PROPER CORRUGATIONS OVERSPLICE BETWEEN THE TWO SHEATHS SHALL BE MINIMUM OF 150mm, SECURED WITH WATERPROOF TAPE.

8) NEOPRENE PADS

NEOPRENE BEARING PADS FOR GIRDER SEATING SHOWN ON THE INDIVIDUAL DRAWINGS SHALL BE LAMINATED WITH 100% VIRGIN CHLOROPRENE, NEOPRENS OF 60 ± 5 DURO HARDNESS MEETING THE REQUIREMENTS OF AASHTO M-251 SHALL BE USED. INTERNAL STEEL CONFORMING TO ASTM A-286 PR A-252 GRADE D SHALL BE USED.
BRIDGE BEARINGS SHALL BE PLACED IN HORIZONTAL POSITION.

3. APPROACH ROAD AND BACK FILL MATERIAL

1) MATERIALS & WORKMANSHIP STANDARDS

ALL MATERIALS USED AND WORKMANSHIP INVOLVED IN THE EXECUTION OF ALL WORK COVERED UNDER THIS CONTRACT SHALL BE IN STRICT CONFORMITY WITH DRAWINGS, SPECIFICATIONS, BOQS AND CONTRACT CONDITIONS. WHERE REFERRED STANDARDS FOR TESTING MATERIALS & WORKMANSHIP ARE NOT EXPLICITLY STATED ON THE DRAWINGS AND CONTRACT DOCUMENTS, LATEST REVISION/ STANDARDS OF AASHTO, ASTM OR BS SHALL BE APPLICABLE AS INSTRUCTED BY THE ENGINEER..

2) APPROACHE/ EMBANKMENT/ GUIDE BANKS FILL

THE CONTRACTOR SHALL CONSTRUCT APPROACH ROAD EMBANKMENT ACCORDING TO THE SPECIFIED ALIGNMENT, LEVELS, GRADES ETC. COMPACTION OF EXCAVATED SUB-GRADE, EMBANKMENT FILL AND SUB-BASE SHALL BE CARRIED OUT IN LAYERS OF SPECIFIED THICKNESS AT OPTIMUM MOISTURE CONTENT TO ACHIEVE THE SPECIFIED DRY DENSITY. ONLY SUITABLE FILL MATERIAL MEETING CONTRACT SPECIFICATIONS AND APPROVED BY THE ENGINEER. SHALL BE USED FOR CONSTRUCTION OF ROAD EMBANKMENT. NO EXCAVATION FOR MATERIAL WILL BE PERMITTED WITHIN 2KM ON EACH SIDE OF BRIDGE ALIGNMENT.

3) ROAD PAVEMENT

PAVEMENT INCLUDING SUB-BASE, BASE COURSE, ASPHALT CONCRETE AND SHOULDERS SHALL BE CONSTRUCTED ACCORDING TO DRAWINGS AND SPECIFICATIONS.

4. BACKFILL MATERIAL

BACKFILL MATERIAL SHALL BE GRANULAR MATERIAL HAVING ANGLE OF INTERNAL FRICTION NOT LESS THAN 33 DEGREES. BACKFILL MATERIAL ON TOP OF FOOTINGS SHALL BE COMPACTED WITH AS PER SPECIFICATIONS.

5. PILING

(READ IN CONJUNCTION WITH SPECIFICATIONS FOR 'CONSTRUCTION & TESTING OF PILES' AND RELEVANT DRAWINGS)

1) PILING WORK
PILING WORK SHALL BE EXECUTED BY THE CONTRACTOR USING THE PERCUSSION, ROTARY OR OTHER APPROVED METHOD.CONTRACTOR SHALL BE RESPONSIBLE FOR THE REQUIRED SHAPE AND LENGTH OF BOREHOLE AND FINISHED PILE.

2) PILE TOP
PILE CONCRETING SHALL BE CONTINUED WITH IMMERSED TREMIE UNTIL THE INITIAL BATCH OF CONTAMINATED CONCRETE HAS OVER FLOWN AND THE PILE CONCRETE SURFACE IS AT LEAST 600mm ABOVE THE FINAL CUT-OFF LEVEL. THIS EXTRA LENGTH OF CONCRETE SHALL SUBSEQUENTLY BE CUT-OFF AFTER MINIMUM 3 DAYS TO ACHIEVE A UNIFORM SOUND CONCRETE BED. PILE ONCE REJECTED BY THE ENGINEER. SHALL NOT ALLOWED FOR ANY TESTING BY THE CONTRACTOR TO PROVE ITS SUITABILITY OF PERMANENT WORK. ADDITIONAL REQUIRED PILES DUE TO SUCH REJECTION SHALL BE DONE BY CONTRACTOR AT HIS OWN COST.
IF TREMIE IS WITHDRAWN PREMATURELY BEFORE FINAL BATCH OF CONCRETE OR IS STUCK IN WET CONCRETE, THE PILE WILL BE REJECTED.

3) MATERIALS
STRUCTURAL CONCRETE AND REINFORCING STEEL FOR TEST PILE SHALL CONFORM TO THE GENERAL NOTES AND SPECIFICATIONS RELATING TO PILING WORK CONTAINED ELSEWHERE IN THE PROJECT DOCUMENTS.

4) LOADING AND TESTING PROCEDURE
PILE SHALL BE TESTED FOR LOAD UPTO ULTIMATE CONDITION AS PER RELEVANT ASTM STANDARD TESTING PROCEDURE.

5) *AGE OF TESTING OF INDEX PILE*
LOAD TESTING SHALL BE DONE AFTER A LAPSE OF AT LEAST 15 DAYS OR WHEN FIELD CURED CONCRETE CYLINDERS INDICATE A CYLINDER STRENGTH OF 27.5 MPa (4,000 PSI) WHICHEVER IS LATER. PROGRAM FOR LOAD TESTING SHALL BE NOTIFIED TO THE ENGINEER..

WORKING PILE WILL BE BORED AND CONSTRUCTED AFTER TEST PILE REPORT IS RECEIVED BY THE QA/QC ENGINEER. AND INSTRUCTIONS FOR ANY MODIFICATIONS HAVE BEEN ISSUED BY HIM.

6) CALIBRATION CERTIFICATE
CONTRACTOR SHALL ENSURE USE OF PROPERLY CALIBRATED LOADING DEVICES FOR USE IN PILE LOAD TEST. A RECENT CALIBRATION CERTIFICATE FOR JACK & PRESSURE GUAGE SHALL BE OBTAINED FROM AN INDEPENDENT REPUTABLE LABORATORY AND SUBMITTED TO THE ENGINEER. AS PROOF OF THE CALIBRATION IN ADVANCE OF THE ACTUAL LOAD TEST.

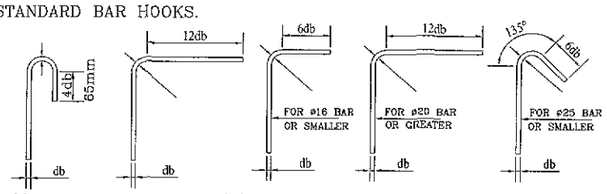
7) FINAL REPORT
ON COMPLETION OF THE LOAD TEST, CONTRACTOR SHALL SUBMIT 4 COPIES OF FINAL LOAD TEST REPORT COMPLETE WITH LOAD SETTLEMENT CURVES.

6. MISCELLANEOUS

1) INDEMNITY

CONSULTANT'S LIABILITY WILL BE LIMITED TO THE DESIGN ONLY IN ACCORDANCE WITH THE AMOUNT AND PERIOD SPECIFIED IN THE PEC BYE-LAWS. THE CONTRACTOR WILL HOLD THE CLIENT AND THE CONSULTANT INDEMNIFIED OF ALL THE DAMAGES, INJURIES OR CASUALTIES OR ANY OTHER DAMAGE OR LOSS SUFFERED BY ANY PARTY DURING & AFTER THE CONSTRUCTION AND MAINTENANCE PERIOD. THE CONTRACTOR WILL GET PROPER INSURANCE POLICY UNDER WRITTEN AGREEMENT AT THIS OWN COST FROM REPUTABLE INSURANCE COMPANY TO COVER THIS INDEMNIFICATION. THE CONSULTANT OR CLIENT WILL NOT BE RESPONSIBLE FOR CONTRACTOR'S CONSTRUCTION METHODOLOGY SUCH AS LAUNCHING OF GIRDERS, SCAFFOLDING, SHUTTERING OR ANY SAFETY MEASURE ADOPTED BY THE CONTRACTOR DURING CONSTRUCTION.

STANDARD BAR HOOKS.



(a) Main reinforcement (b) Stirrups and ties.

NOTE:

MINIMUM BEND DIAMETERS FOR STANDARD HOOKS

BAR SIZE (mm)	MINIMUM DIAMETER
10 – 25	6 db
28 – 36	8 db

7. LAPPED SPLICES:

1) ALL LAPPED SPLICES SHALL BE TENSION SPLICES, AS PER TABLE NO.1, CONFORMING TO ACI 318, UNLESS OTHERWISE NOTED.
2) FOR SMALLER HEIGHTS OF WALLS UPTO, 3 METRES, LAPPING OF REBARS IS NOT ALLOWED, UNLESS OTHERWISE NOTED.
3) NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE LOCATION, UNLESS OTHERWISE SHOWN ON DRAWINGS.
4) FOR EMBEDMENT LENGTH REFER TO TABLE NO.2

TABLE NO. 1

(i) SPLICE LENGTH IN TENSION

(a) TOP BARS

Bar Size / f_c' N/mm²	SPLICE LENGTH mm ø10	ø12	ø16	ø20	ø22	ø25	ø29	ø32	ø36
21	710	945	1180	1410	2080	2355	2645	2940	3240
28	610	820	1020	1225	1780	2040	2295	2550	2805
35	550	730	915	1095	1580	1805	2035	2290	2545
41	495	630	795	960	1390	1585	1785	1985	2215

(b) OTHER BARS

Bar Size / f_c' N/mm²	SPLICE LENGTH mm ø10	ø12	ø16	ø20	ø22	ø25	ø29	ø32	ø36
21	550	730	905	1085	1590	1815	2035	2265	2490
28	475	630	780	945	1375	1570	1765	1960	2160
35	425	565	705	845	1215	1390	1565	1765	1960
41	400	495	630	730	1090	1225	1390	1565	1685

(ii) SPLICE LENGTH IN COMPRESSION

SPLICE LENGTH (mm) IN COMPRESSION (Fy=4220Kg/cm²)									
Bar Size	ø10	ø12	ø16	ø20	ø22	ø25	ø29	ø32	ø36
Splice Length	300	380	480	575	670	765	860	955	1050

TABLE NO. 2

(iii) DEVELOPMENT LENGTH IN TENSION

(a) TOP BARS

Bar Size / f_c' N/mm²	DEVELOPMENT LENGTH ℓ_d (mm) ø10	ø12	ø16	ø20	ø22	ø25	ø29	ø32	ø36
21	545	730	910	1090	1690	1820	2050	2310	2565
28	475	630	785	945	1360	1555	1755	1975	2190
35	435	560	715	840	1220	1400	1575	1755	1930
41	380	496	610	740	1070	1220	1375	1526	1705

(b) OTHER BARS

Bar Size / f_c' N/mm²	DEVELOPMENT LENGTH ℓ_d (mm) ø10	ø12	ø16	ø20	ø22	ø25	ø29	ø32	ø36
21	420	560	700	840	1225	1400	1580	1775	1970
28	385	485	605	725	1045	1195	1350	1520	1685
35	330	435	535	635	940	1070	1220	1350	1475
41	305	385	465	560	840	940	1070	1195	1285

NOTES

ALL DIMENSION ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

01		
00		
REV.	REVISION/ISSUE	DATE

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT & ARCHITECTS.

DRAWING TITLE:

GENERAL NOTES

DESIGN BY: BILAL	SHEET NO: 01 TO 01
DRAWN BY: FARRUKH	SCALE:
CHECKED BY: KASHIF	DATE: DEC, 2020
APPROVED BY: INHAM MINHAS	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/STR/GEN/01-01

PIPE CULVERTS

SR. NO	New Chainage(km)	Standard Rainfall(mm)	Type of Structure	Catchment Area (km2)	Q calculated		Cells	Dia (m)	Height (m)	Width (m)
					cumecs	Cusecs	Nos.			
1	0+372	62	Pipe	1.69	1.66	58.61	1	1.2		
2	1+373	62	Pipe	3.08	3.02	106.64	1	1.2		
3	1+764	62	Pipe	2.79	2.74	96.75	1	1.2		
4	2+043	62	Pipe	2.76	2.3	81.21	1	1.2		
5	2+238	62	Pipe	1.98	1.94	68.5	1	1.2		
6	2+618	62	Pipe	2.86	2.1	74.15	1	1.2		
7	2+650	62	Pipe	2.87	2.1	74.15	1	1.2		
8	2+656	62	Pipe	3.09	2.57	90.75	1	1.2		
9	2+894	62	Pipe	4.19	3.01	106.28	1	1.2		
10	2+954	62	Pipe	2.54	2.19	77.33	1	1.2		
11	2+982	62	Pipe	3.13	3.07	108.4	1	1.2		
12	3+045	62	Pipe	2.92	2.16	76.27	1	1.2		
13	3+057	62	Pipe	54.22	38.11	1345.66	12	1.2		
14	3+090	62	Pipe	1.84	1.16	40.96	1	1.2		
15	3+161	62	Pipe	3.08	3.02	106.64	1	1.2		
16	3+190	62	Pipe	2.79	2.14	75.56	1	1.2		
17	3+268	62	Pipe	1.98	1.14	40.25	1	1.2		
18	3+364	62	Pipe	2.86	2.18	76.98	1	1.2		
19	3+458	62	Pipe	2.87	2.19	77.33	1	1.2		
20	3+500	62	Pipe	59.44	36.1	1274.69	12	1.2		
21	3+725	62	Pipe	53.49	35.1	1239.38	12	1.2		
22	4+044	62	Pipe	53.73	33.07	1167.7	14	1.2		
23	4+250	62	Pipe	2.42	2.16	76.27	1	1.2		
24	4+347	62	Pipe	2.7	1.07	37.78	1	1.2		
25	4+382	62	Pipe	1.4	1.1	38.84	1	1.2		
26	4+440	62	Pipe	2.4	2.01	70.97	1	1.2		
27	4+475	62	Pipe	44.44	24.16	853.09	14	1.2		
28	4+600	62	Pipe	1.61	0.99	34.96	1	1.2		
29	5+034	62	Pipe	1.49	1.24	43.78	1	1.2		
30	6+172	62	Pipe	3.65	2.21	78.04	1	1.2		
31	6+620	62	Pipe	39.44	34.16	1206.19	12	1.2		
32	6+738	62	Pipe	39.54	34.26	1209.72	12	1.2		
33	7+729	62	Pipe	4.7	3.16	111.58	1	1.2		
34	8+000	62	Pipe	1.64	1.37	48.37	1	1.2		
35	8+148	62	Pipe	2.11	1.24	43.78	1	1.2		
36	8+350	62	Pipe	1.62	1.35	47.67	1	1.2		
37	8+423	62	Pipe	1.59	1.3	45.9	1	1.2		
38	8+635	62	Pipe	39.42	24.15	852.74	14	1.2		
39	8+940	62	Pipe	39.43	24.16	853.09	14	1.2		
40	9+100	62	Pipe	39.41	24.14	852.38	14	1.2		
41	9+337	62	Pipe	4.69	3.66	129.23	1	1.2		
42	9+825	62	Pipe	1.6	0.43	15.18	1	1.2		
43	11+210	62	Pipe	41.4	30.15	1064.6	14	1.2		
44	14+200	62	Pipe	4.19	3.11	109.81	1	1.2		
45	16+395	62	Pipe	2.54	1.49	52.61	1	1.2		
46	16+825	62	Pipe	3.13	2.07	73.09	1	1.2		
47	18+045	62	Pipe	1.84	1.2	42.37	1	1.2		
48	20+650	62	Pipe	2.92	1.86	65.68	1	1.2		
49	22+890	62	Pipe	1.49	0.89	31.43	1	1.2		
50	25+800	62	Pipe	3.08	2.02	71.33	1	1.2		
51	26+820	62	Pipe	2.79	2.14	75.56	1	1.2		
52	28+600	62	Pipe	1.98	1.4	49.43	1	1.2		
53	30+850	62	Pipe	2.86	1.11	39.19	1	1.2		
54	33+170	62	Pipe	2.87	1.12	39.55	1	1.2		
55	34+513	62	Pipe	1.98	1.29	45.55	1	1.2		
56	37+950	62	Pipe	2.04	1.14	40.25	1	1.2		
57	38+300	62	Pipe	2.55	2.14	75.56	1	1.2		
58	41+300	62	Pipe	2.1	1.49	52.61	1	1.2		
59	42+900	62	Pipe	3.01	1.92	67.8	1	1.2		
60	43+850	62	Pipe	5.01	2.16	76.27	1	1.2		
61	44+170	62	Pipe	4.44	2.13	75.21	1	1.2		
62	44+400	62	Pipe	2.24	1.25	44.14	1	1.2		
63	44+500	62	Pipe	2.87	1.78	62.85	1	1.2		
64	44+600	62	Pipe	3.5	2.14	75.56	1	1.2		
65	44+700	62	Pipe	4.13	2.23	78.74	1	1.2		
66	44+820	62	Pipe	4.76	2.95	104.16	1	1.2		
67	44+910	62	Pipe	5.39	2.99	105.58	1	1.2		
68	45+200	62	Pipe	7.39	2.99	105.58	1	1.2		
69	45+550	62	Pipe	7.91	3.68	129.94	1	1.2		
70	45+620	62	Pipe	7.17	3.16	111.58	1	1.2		
71	45+760	62	Pipe	7.8	3.61	127.47	1	1.2		
72	45+980	62	Pipe	7.1	3.69	130.29	1	1.2		

SR. NO	New Chainage(km)	Standard Rainfall(mm)	Type of Structure	Catchment Area (km2)	Q calculated		Cells	Dia (m)	Height (m)	Width (m)
					cumecs	Cusecs	Nos.			
73	46+100	62	Pipe	31.06	14.18	500.7	6	1.2		
74	46+300	62	Pipe	2.4	1.37	48.37	1	1.2		
75	46+400	62	Pipe	2.32	1.24	43.78	1	1.2		
76	46+510	62	Pipe	2.95	1.35	47.67	1	1.2		
77	46+720	62	Pipe	3.58	1.56	55.08	1	1.2		
78	46+830	62	Pipe	4.21	1.59	56.14	1	1.2		
79	46+940	62	Pipe	4.84	1.61	56.85	1	1.2		
80	47+040	62	Pipe	5.47	1.66	58.61	1	1.2		
81	47+150	62	Pipe	1.97	0.43	15.18	1	1.2		
82	47+250	62	Pipe	2.52	1.52	53.67	1	1.2		
83	47+360	62	Pipe	3.43	2.58	91.1	1	1.2		
84	47+460	62	Pipe	3.87	2.68	94.63	1	1.2		
85	47+570	62	Pipe	4.4	2.98	105.22	1	1.2		
86	47+670	62	Pipe	5.11	2.99	105.58	1	1.2		
87	47+780	62	Pipe	3.74	2.07	73.09	1	1.2		
88	47+890	62	Pipe	3.48	1.89	66.74	1	1.2		
89	48+000	62	Pipe	3.11	1.18	41.67	1	1.2		
90	48+100	62	Pipe	8.1	3.38	119.35	1	1.2		
91	48+235	62	Pipe	10.91	3.14	110.87	1	1.2		
92	55+400	62	Pipe	2.07	0.61	21.54	1	1.2		
93	55+510	62	Pipe	1.19	0.43	15.18	1	1.2		
94	56+627	62	Pipe	1.2	0.31	10.95	1	1.2		
95	57+600	62	Pipe	29.54	17.16	605.92	8	1.2		
96	60+500	62	Pipe	29.35	17.09	603.45	8	1.2		
97	63+530	62	Pipe	28.51	16.09	568.14	8	1.2		
98	63+960	62	Pipe	27.64	18.06	637.7	8	1.2		
99	65+240	62	Pipe	4.09	2.08	73.44	1	1.2		
100	66+680	62	Pipe	2.56	2.13	75.21	1	1.2		
101	66+770	62	Pipe	21.26	9.82	346.74	3	1.2		
102	66+960	62	Pipe	3.84	1.55	54.73	1	1.2		
103	67+400	62	Pipe	2.36	1.27	44.84	1	1.2		
104	67+950	62	Pipe	1.96	1.02	36.02	1	1.2		
105	68+300	62	Pipe	1.49	0.99	34.96	1	1.2		
106	68+650	62	Pipe	1.2	0.88	31.07	1	1.2		
107	69+740	62	Pipe	36.58	17.67	623.93	12	1.2		
108	69+850	62	Pipe	35.1	16.07	567.43	12	1.2		
109	70+900	62	Pipe	38.1	17.07	602.74	12	1.2		
110	71+800	62	Pipe	22.21	10.26	362.28	7	1.2		
111	72+280	62	Pipe	28.2	13.02	459.74	8	1.2		
112	72+770	62	Pipe	17.2	7.94	280.36	5	1.2		
113	73+570	62	Pipe	46.58	20.1	709.73	12	1.2		
114	74+840	62	Pipe	28.54	24.16	853.09	8	1.2		
115	75+300	62	Pipe	27.64	24.08	850.26	8	1.2		
116	76+970	62	Pipe	12.87	6.91	243.99	4	1.2		
117	78+700	62	Pipe	16.68	8.06	284.6	5	1.2		
118	79+560	62	Pipe	23.4	11.89	419.84	7	1.2		
119	80+240	62	Pipe	7.73	4.15	146.54	3	1.2		
120	81+970	62	Pipe	11.72	5.95	210.09	4	1.2		
121	82+535	62	Pipe	18.69	9.49	335.09	6	1.2		
122	83+110	62	Pipe	7.49	4.02	141.95	3	1.2		
123	84+460	62	Pipe	5.02	2.86	100.99	1	1.2		
124	84+560	62	Pipe	4.22	2.41	85.1	1	1.2		
125	85+590	62	Pipe	17.41	9.34	329.8	6	1.2		
126	86+450	62	Pipe	26.64	24.16	853.09	8	1.2		
127	88+150	62	Pipe	34.19	18.35	647.94	12	1.2		
128	88+900	62	Pipe	5.83	3.33	117.58	3	1.2		
129	89+450	62	Pipe	34.23	18.35	647.94	12	1.2		
130	90+100	62	Pipe	7.71	4.4	155.36	3	1.2		
131	92+230	62	Pipe	34.17	18.29	645.82	12	1.2		
132	93+570	62	Pipe	4.7	2.88	101.69	1	1.2		
133	94+340	62	Pipe	9.82	5.61	198.09	3	1.2		
134	95+155	62	Pipe	2.2	1.1	38.84	1	1.2		
135	95+760	62	Pipe	2.46	1.95	68.85	1	1.2		
136	96+380	62	Pipe	1.05	0.86	30.37	1	1.2		
137	97+550	62	Pipe	2.48	1.58	55.79	1	1.2		
138	98+590	62	Pipe	5.11	2.16	76.27	1	1.2		
139	99+075	62	Pipe	3.09	1.57	55.44	1	1.2		
140	99+955	62	Pipe	4.19	2.11	74.5	1	1.2		
141	100+680	62	Pipe	2.54	1.49	52.61	1	1.2		
142	101+888	62	Pipe	3.13	1.07	37.78	1	1.2		
143	102+685	62	Pipe	1.84	0.56	19.77	1	1.2		

NOTES

ALL DIMENSION ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

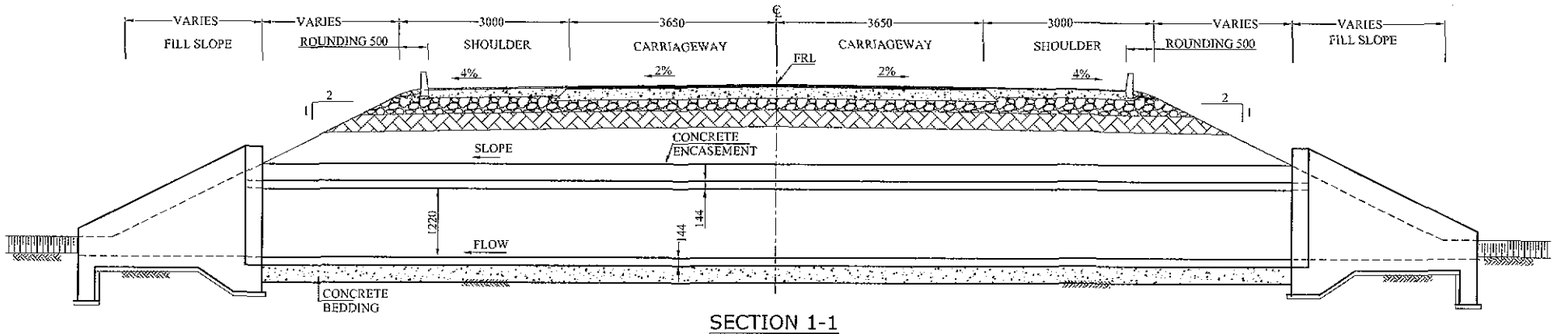
ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

SCHEDULE OF PIPE CULVERTS

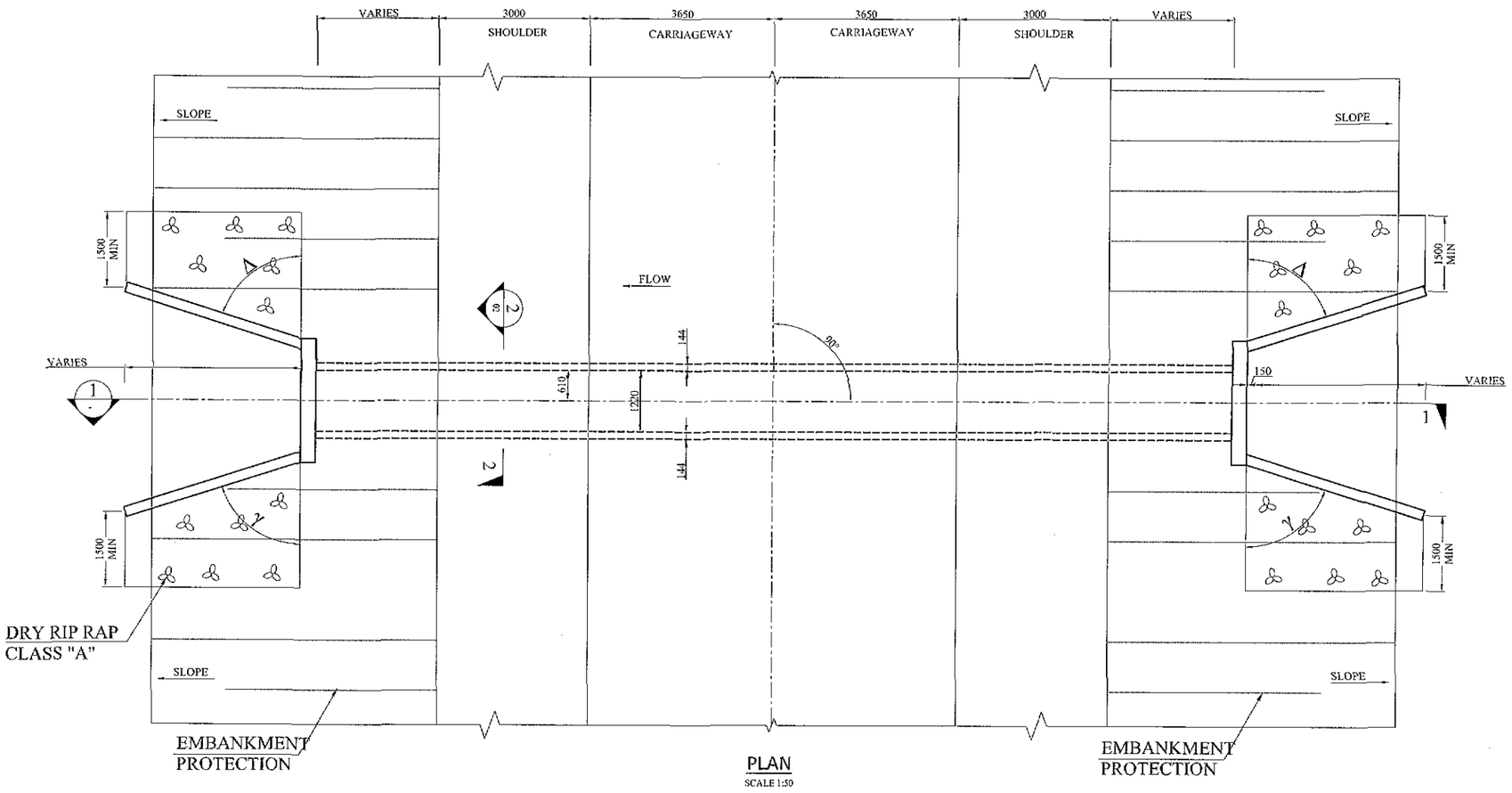
DESIGN BY: BILAL	SHEET NO: 01 TO 01
DRAWN BY: FARRUKH	SCALE:
CHECKED BY: KASHIF	DATE: DEC, 2020
APPROVED BY: INHAM MINHAS	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/STR/SCH/01



SECTION 1-1

SCALE 1:50



PLAN

SCALE 1:50

NOTES

ALL DIMENSION ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

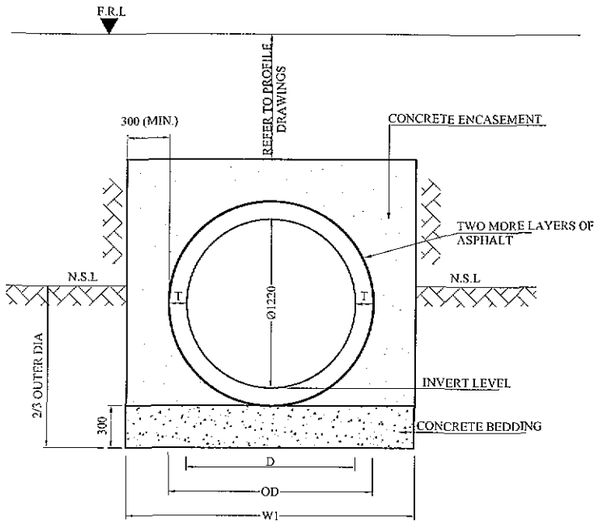
DRAWING TITLE:

PIPE CULVERT GENERAL ARRANGEMENT PLAN & ELEVATION

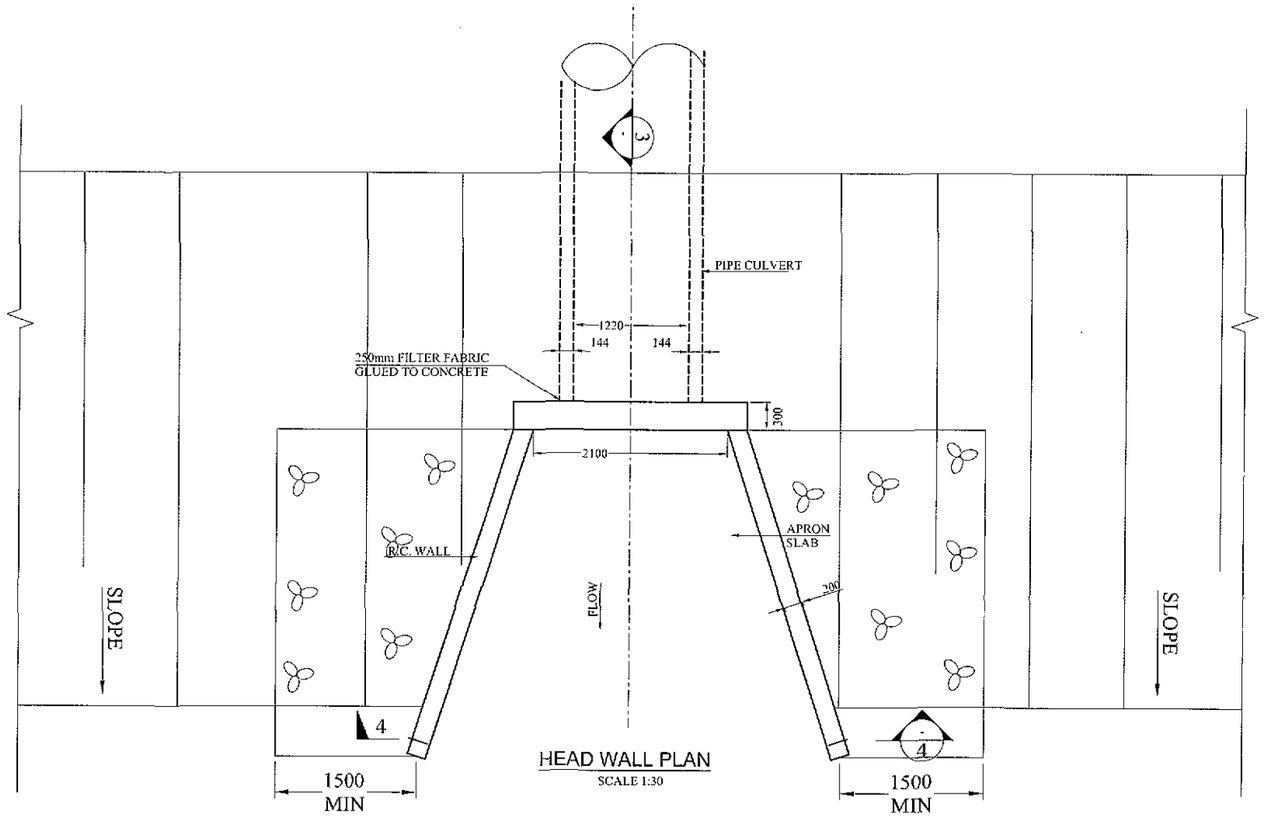
DESIGN BY: BILAL	SHEET NO: 01 TO 04
DRAWN BY: FARRUKH	SCALE:
CHECKED BY: KASHIF	DATE: DEC, 2020
APPROVED BY: INHAM MINHAS	REVISION: REV. 00

CAD FILE NAME:

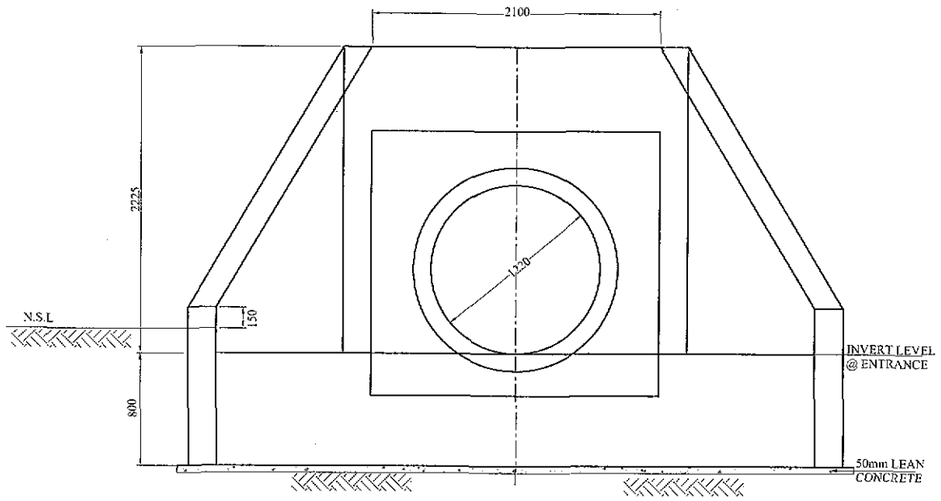
ZI/KA/NK/STR/PC/01-01



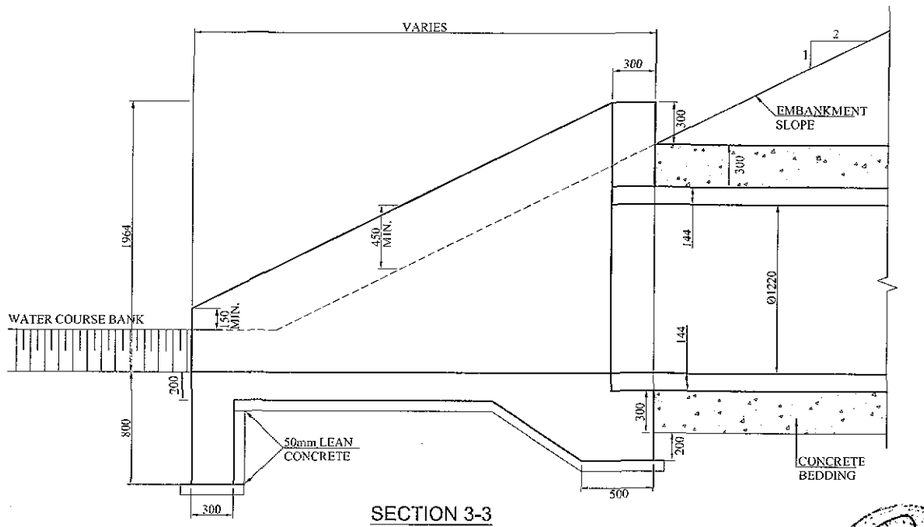
SECTION 2-2
SCALE 1:20



HEAD WALL PLAN
SCALE 1:30



SECTION 4-4
SCALE 1:20



SECTION 3-3
SCALE 1:20

NOTES

ALL DIMENSION ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

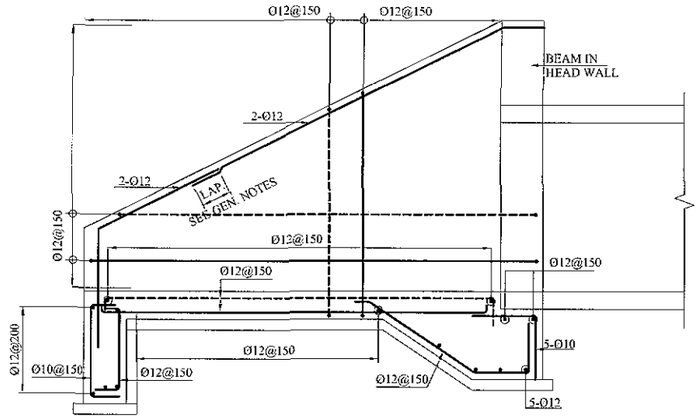
CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
PIPE CULVERT
SECTIONS

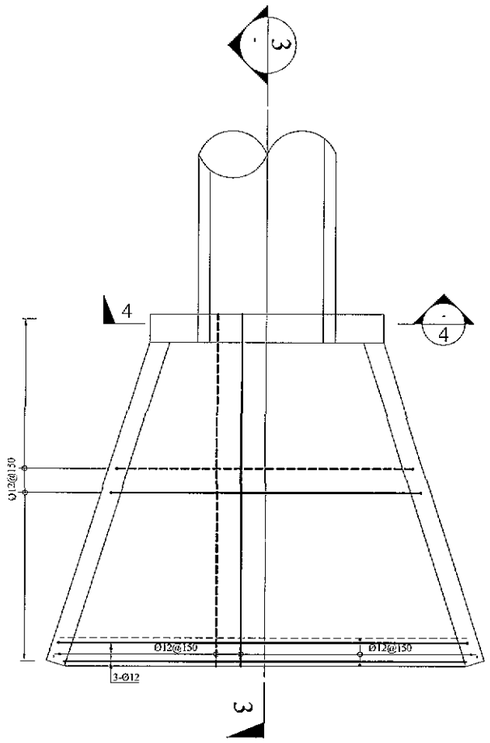
DESIGN BY: BILAL	SHEET NO: 02 TO 04
DRAWN BY: FARRUKH	SCALE:
CHECKED BY: KASHIF	DATE: DEC, 2020
APPROVED BY: INHAM MINHAS	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/STR/PC/01-02



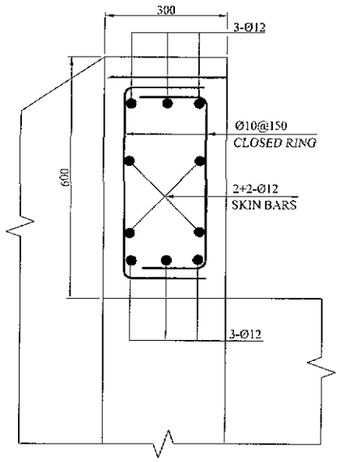
SECTION 3-3 REINFORCEMENT

SCALE 1:20



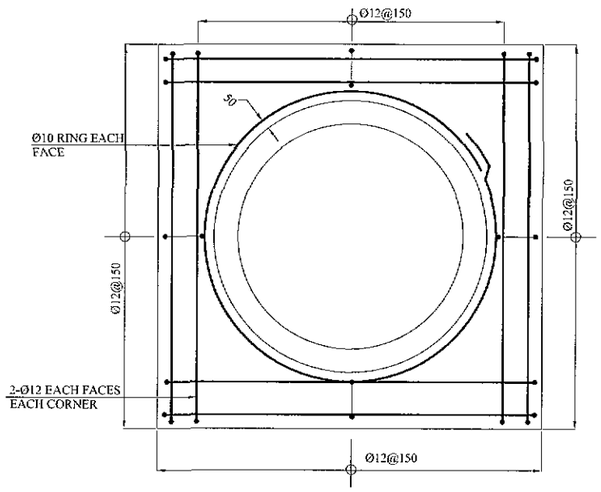
BASE SLAB PLAN REINFORCEMENT

SCALE 1:30



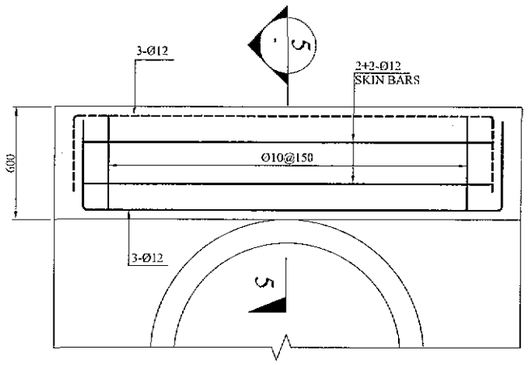
SECTION 5-5

SCALE 1:7



SECTION 4-4 REINFORCEMENT

SCALE 1:15



L- SECTION OF BEAM IN HEAD WALL

SCALE 1:15

NOTES:-

1- REINFORCED CONCRETE PIPES SHALL BE MANUFACTURED AND TESTED IN ACCORDANCE WITH AASHTO DESIGNATION M 170 OR ASTM DESIGNATION C-70 M.

2- ALL CONCRETE USED IN PIPES SHALL HAVE MINIMUM 28 DAYS CYLINDER STRENGTH OF 28MPa. MEASURED ON 150MM X 300 MM CYLINDERS.

3- FOR BEDDING ON ROCK OR MARDPAN, BEDDING DEPTH SHALL NOT BE LESS THAN 300 MM.

4- CLASS "B" CONCRETE SHALL BE USED FOR CONCRETE BEDDING.

5- CLASS "B" CONCRETE SHALL BE USED FOR CONCRETE ENCASEMENT.

6- FOR NEGATIVE PROJECTION INSTALLATION TRENCH WIDTHS SHALL NOT EXCEED FROM THE INDICATED DIMENSIONS.

7- MANUFACTURER TO PROVIDE REINFORCEMENT FOR "CLASS IV" PIPE CULVERT.

NOTES

ALL DIMENSION ARE IN METER UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEHRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASHI ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

PIPE CULVERT
REINFORCEMENT DETAIL

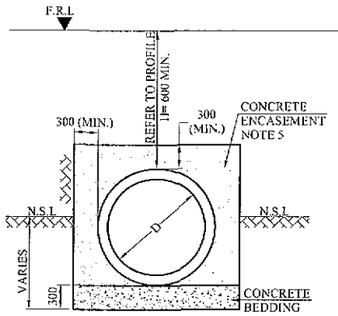
DESIGN BY: BILAL	SHEET NO: 03 TO 04
DRAWN BY: FARRUKH	SCALE:
CHECKED BY: KASHIF	DATE: DEC, 2020
APPROVED BY: INHAM MINHAS	REVISION: REV. 00

CAD FILE NAME:

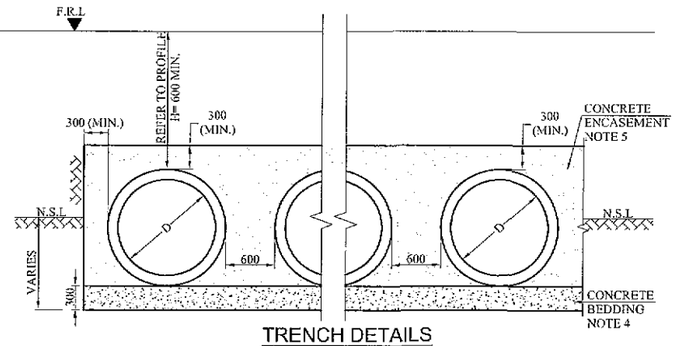
ZI/KA/NK/STR/PC/01-03

CONCRETE ENCASED PIPE CULVERT H≤ O.D BUT H> 0.6M

POSITIVE PROJECTION

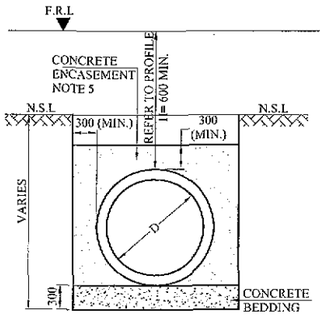


TRENCH DETAILS
SINGLE PIPE CULVERT
SCALE 1:35

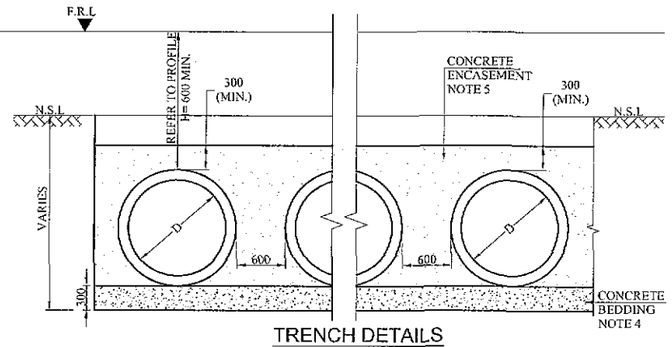


TRENCH DETAILS
MULTI PIPE CULVERT
SCALE 1:35

NEGATIVE PROJECTION



TRENCH DETAILS
SINGLE PIPE CULVERT
SCALE 1:35



TRENCH DETAILS
MULTI PIPE CULVERT
SCALE 1:35

NOTES

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LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :
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MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEFRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4958215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
PIPE CULVERT
TRENCHING DETAILS

DESIGN BY: BILAL	SHEET NO: 04 TO 04
DRAWN BY: FARRUKH	SCALE:
CHECKED BY: KASHIF	DATE: DEC, 2020
APPROVED BY: INHAM MINHAS	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/STR/PC/01-04

BOX CULVERTS

SR. NO	STATION (KM)	EXISTING STRUCTURE TYPE	DETAIL OF STRUCTURE			REMARKS	PGL LEVEL(M)	INVERT LEVEL(M)
			NO. OF CELLS	WIDTH (M)	HEIGHT (M)			
1	5+300	Box culvert	22	4	1.5	Proposed new box culvert.	627.94	625.569
2	5+575	Box culvert	22	4	1.5	Proposed new box culvert.	626.769	624.596
3	7+125	Box culvert	20	4	1.5	Proposed new box culvert.	622.919	620.377
4	7+547	Box culvert	18	4	1.5	Proposed new box culvert.	621.05	619.296
5	10+100	Box culvert	30	4	1.5	Proposed new box culvert.	616.096	612.458
6	45+400	Box culvert	15	4	1.5	Proposed new box culvert.	494.882	491.428

NOTES

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LEGEND

ABBREVIATIONS

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Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

SCHEDULE OF STRUCTURES

DESIGN BY:	SHEET NO:
BILAL	01 TO 01
DRAWN BY: FARRUKH	SCALE:
CHECKED BY: KASHIF	DATE: DEC, 2020
APPROVED BY: INHAM MINHAS	REVISION: REV. 00

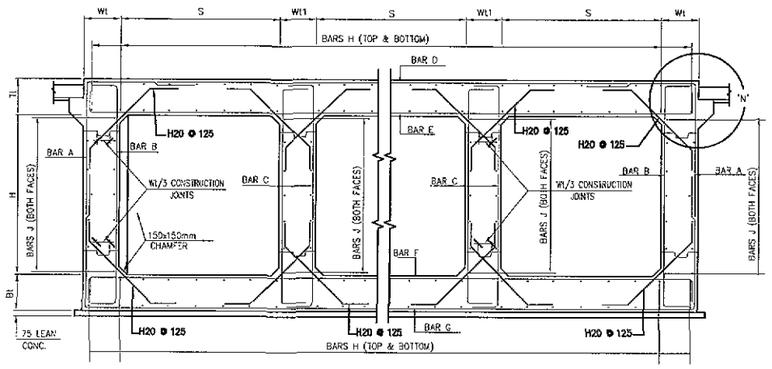
CAD FILE NAME:
ZI/KA/NK/STR/SCH/01

FILL HEIGHT	SPAN (S) (M)	CLEAR HEIGHT (H) (M)	TOP SLAB Tt. (MM)	BOTTOM SLAB Bt. (MM)	EXT. WALL Wt. (MM)	INT. WALL Wt.1 (MM)	BAR MARK A	BAR MARK B	BAR MARK C	BAR MARK D	BAR MARK E	BAR MARK F	BAR MARK G	BAR MARK H STRAIGHT	BAR MARK J STRAIGHT
0 ~ 3	4.00	1.50	425	425	400	350	H20 @ 125 c/c	H20 @ 150 c/c	H20 @ 150 c/c	H20 @ 125 c/c	H20 @ 125 c/c	H20 @ 125 c/c	H20 @ 125 c/c	H16 @ 200 c/c	H16 @ 200 c/c

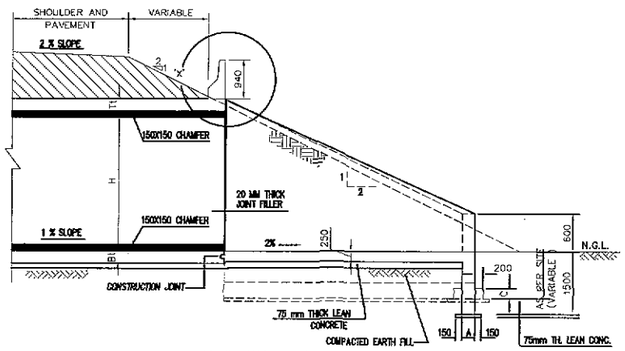
* CULVERT LOCATIONS, INVERT LEVELS & SKEWS ARE TENTATIVE AND CAN BE ADJUSTED WITH THE DECISION OF ENGINEER AS PER SITE CONDITION.

LENGTH OF WING WALLS FOR CULVERTS

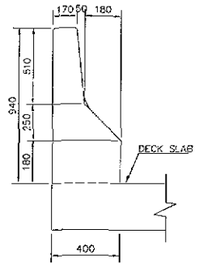
NOTE:-
1:- FOR CULVERTS LENGTH OF WING WALLS SHALL BE CALCULATED AS BELOW.
X = (HEIGHT+Tt-0.600) x 2
L1 = X/COS 01



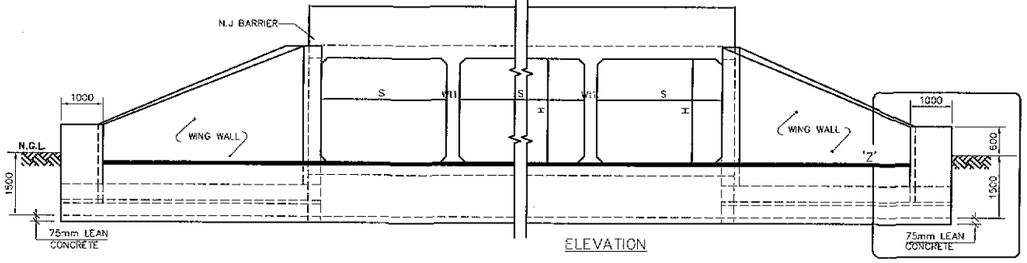
TYPICAL REINF. SECTION



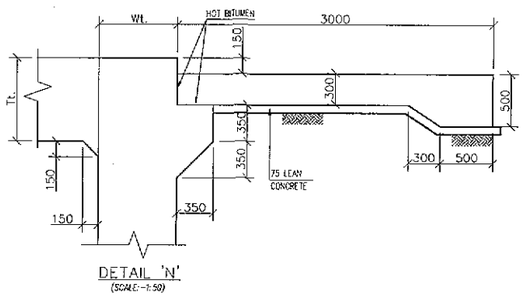
SECTION A-A



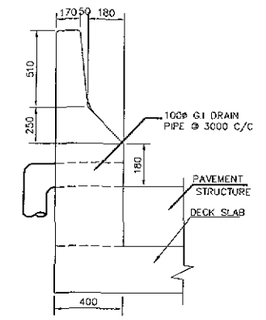
DETAIL OF N.J. BARRIER AT 'X'



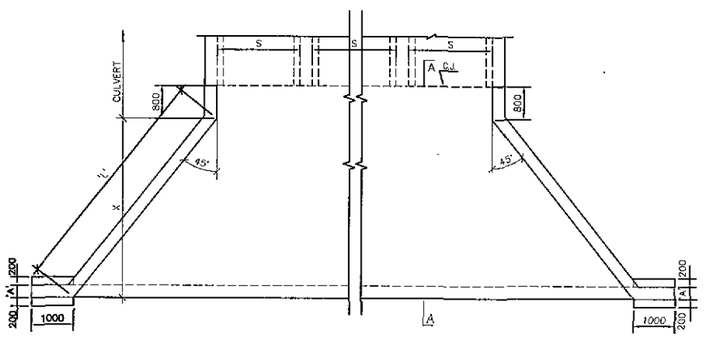
ELEVATION



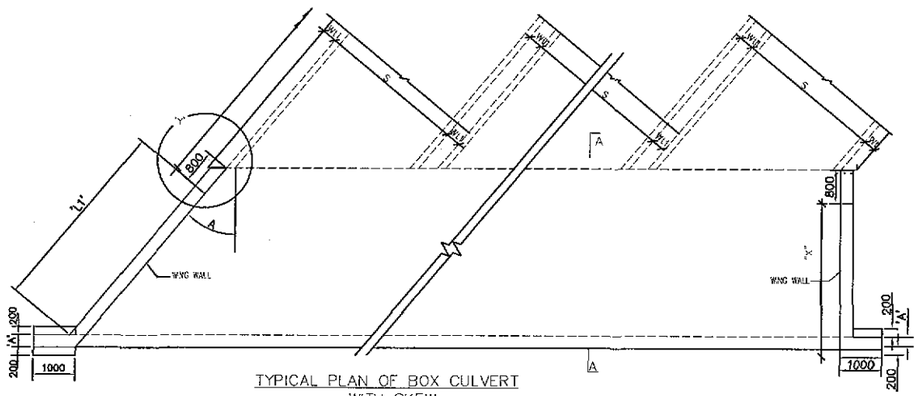
DETAIL 'N'
(SCALE:-1:50)



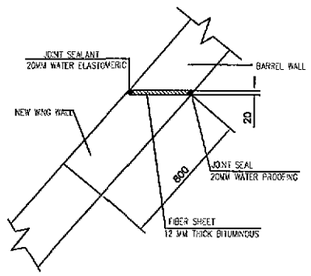
DETAIL OF N.J. BARRIER AT 'X' (WITH SKEW)



TYPICAL PLAN OF BOX CULVERT WITHOUT SKEW



TYPICAL PLAN OF BOX CULVERT WITH SKEW



DETAIL OF EXPANSION JOINT AT 'Y'

NOTES

1. CLEAR COVER TO REINFORCEMENT IS 50mm.
2. THE CLEAR CONC. COVER TO SURFACES HAVING CONTACT WITH THE SOIL IS 75mm.
3. ALL BARS ARE (H.Y.S) HIGH YIELD DEFORMED STEEL 2 WITH fy=410 N/mm (60KS').
4. CONCRETE SHALL HAVE A MINIMUM 28 DAYS CYLINDER STRENGTH OF 4000 psi.
5. LEAN CONCRETE SHALL HAVE A MINIMUM 28 DAYS CYLINDER 2 STRENGTH OF 100 Kg/CM.
6. UNLESS OTHERWISE SHOWN ON THE DRAWINGS LAPS IN REINFORCING STEEL BARS SHALL BE STAGGERED, MINIMUM LENGTH OF LAP SHALL BE 48 TIMES THE SMALLER BAR DIAMETER SPLICED.
7. ALL CONCRETE FACES BURIED IN SOIL BE PAINTED WITH TWO COATS OF HOT BITUMEN.
8. EXPANSION JOINT OF 13MM SHOULD BE PROVIDED, AFTER EVERY FOUR CELL (TRANSVERSELY).
9. ALL DIMENSION ARE IN MILLIMETERS.
10. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
11. APPROACH SLAB WILL BE PROVIDED FOR CULVERT HAVING FILL HEIGHT LESS THAN 1m.
12. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH OTHER RELEVANT DRAWING.

REV.	REVISION/ISSUE	DATE
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IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER-CONSULTANT
& ARCHITECTS.

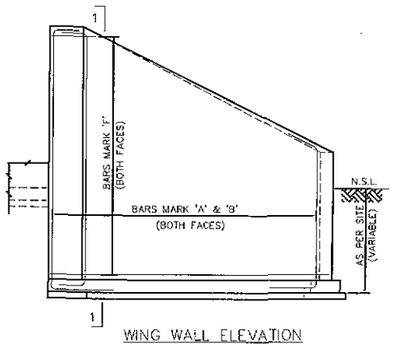
DRAWING TITLE:
BOX CULVERT DETAIL

DESIGN BY: BILAL	SHEET NO: 01 TO 04
DRAWN BY: FARRUKH	SCALE:
CHECKED BY: KASHIF	DATE: DEC, 2020
APPROVED BY: INHAM MINHAS	REVISION: REV. 00

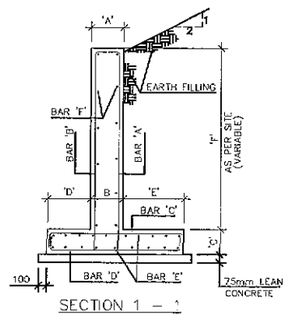
CAD FILE NAME:
ZI/KA/NK/STR/BC/01-01

DIMENSIONS & SCHEDULE OF WING WALLS

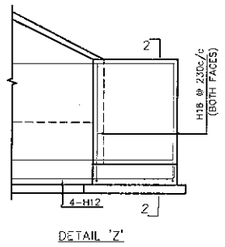
S.NO.	DIMENSIONS							BAR 'A'		BAR 'B'		BAR 'C'		BAR 'D'		BAR 'E'		BAR 'F'	
	H (M)	A (M)	B (M)	C (M)	D (M)	E (M)	F (M)	DIA MM	SPACING MM	DIA MM	SPACING MM	DIA MM	SPACING MM	DIA MM	SPACING MM	DIA MM	SPACING MM	DIA MM	SPACING MM
1	1.5	0.250	0.250	0.300	0.600	1.300	2.800	H12	150	H12	170	H12	150	H12	150	H12	170	H12	170



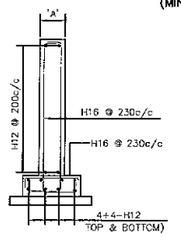
WING WALL ELEVATION



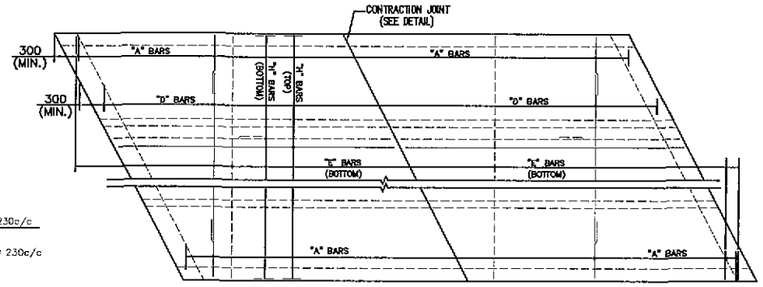
SECTION 1 – 1



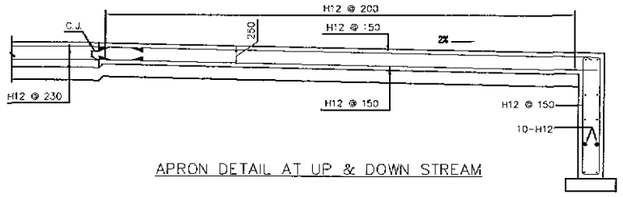
DETAIL 'Z'



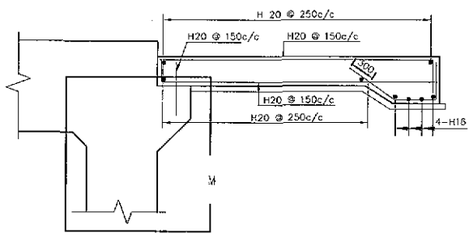
SECTION 2-2



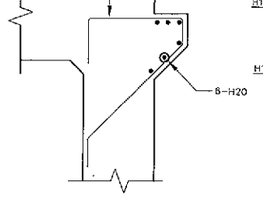
TYPICAL R.C.C BOX CULVERT
TOP SLAB PLAN



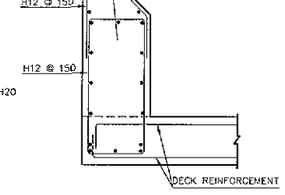
APRON DETAIL AT UP & DOWN STREAM



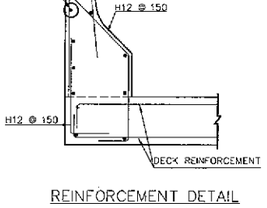
REINF. DETAIL 'N'
(SCALE:-1:50)



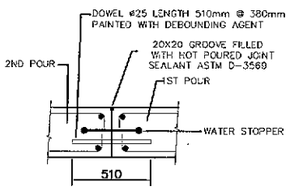
DETAIL 'M'



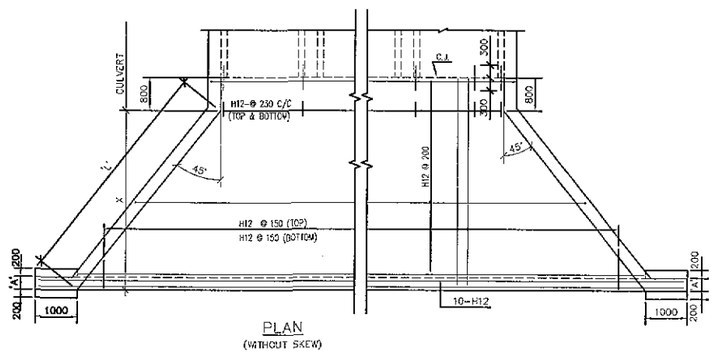
REINFORCEMENT DETAIL OF NJ BARRIER (WITH SKEW)



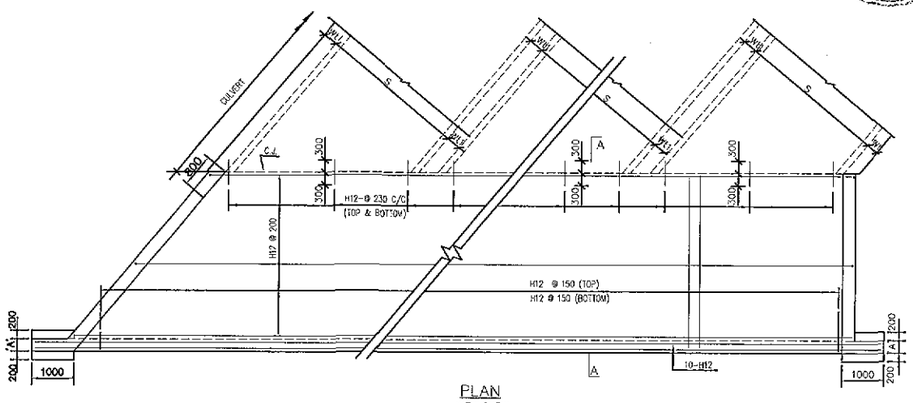
REINFORCEMENT DETAIL OF NJ BARRIER (WITHOUT SKEW)



DETAIL OF CONTRACTION JOINT



PLAN
(WITHOUT SKEW)



PLAN
WITH SKEW

NOTES

1. CLEAR COVER TO REINFORCEMENT IS 50mm.
2. THE CLEAR CONC. COVER TO SURFACES HAVING CONTACT WITH THE SOIL IS 75mm.
3. ALL BARS ARE (H.Y.S) HIGH YIELD DEFORMED STEEL 2 WITH fy=410 N/mm (60KSI).
4. CONCRETE SHALL HAVE A MINIMUM 28 DAYS CYLINDER STRENGTH OF 4000 psi.
5. LEAN CONCRETE SHALL HAVE A MINIMUM 28 DAYS CYLINDER 2 STRENGTH OF 100 Kg/CM.
6. UNLESS OTHERWISE SHOWN ON THE DRAWINGS LAPS IN REINFORCING STEEL BARS SHALL BE STAGGERED, MINIMUM LENGTH OF LAP SHALL BE 48 TIMES THE SMALLER BAR DIAMETER SPLICED.
7. ALL CONCRETE FACES BURIED IN SOIL BE PAINTED WITH TWO COATS OF HOT BITUMEN.
8. EXPANSION JOINT OF 13MM SHOULD BE PROVIDED. AFTER EVERY FOUR CELL (TRANSVERSELY).
9. ALL DIMENSION ARE IN MILLIMETERS.
10. ONLY WRITTEN DIMENSIONS TO BE FOLLOWED.
11. APPROACH SLAB WILL BE PROVIDED FOR CULVERT HAVING FILL HEIGHT LESS THAN 1m.
12. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH OTHER RELEVANT DRAWING.

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT & ARCHITECTS.

DRAWING TITLE:
WING WALL DETAIL

DESIGN BY: BILAL	SHEET NO: 01 TO 04
DRAWN BY: FARRUKH	SCALE:
CHECKED BY: KASHIF	DATE: DEC, 2020
APPROVED BY: INHAM MINHAS	REVISION: REV. 00

CAD FILE NAME: ZI/KA/NK/STR/BC/01-02

ARCHITECTURAL DRAWINGS FOR NAUKANDI TO MASHKHEL

1. 06 LANE TOLL PLAZA
2. 06 LANE TOLL PLAZA STAFF BUILDING
3. WEIGH STATION BUILDING
4. GENERATOR ROOM

06 LANE TOLL PLAZA
FOR
NAUKANDI- MASHKHEL

LIST OF DRAWINGS

SERIAL NO.	DRAWING TITLE	DRAWING NO.
00	TITLE (06 LANE TOLL PLAZA OF NAUKANDI-MASHKHEL)	
01	LIST OF DRAWINGS	ZI / KA / NK / TP / AR-00
02	3D VIEW	ZI / KA / NK / TP / AR-01
03	06 LANE TOLL PLAZA MASTER PLAN	ZI / KA / NK / TP / AR-02
04	TOLL PLAZA FLOOR PLAN	ZI / KA / NK / TP / AR-03
05	FRONT ELEVATIONS REAR ELEVATIONS	ZI / KA / NK / TP / AR-04
06	RIGHT SIDE ELEVATIONS LEFT SIDE ELEVATIONS	ZI / KA / NK / TP / AR-05
07	SECTION A-A	ZI / KA / NK / TP / AR-06

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

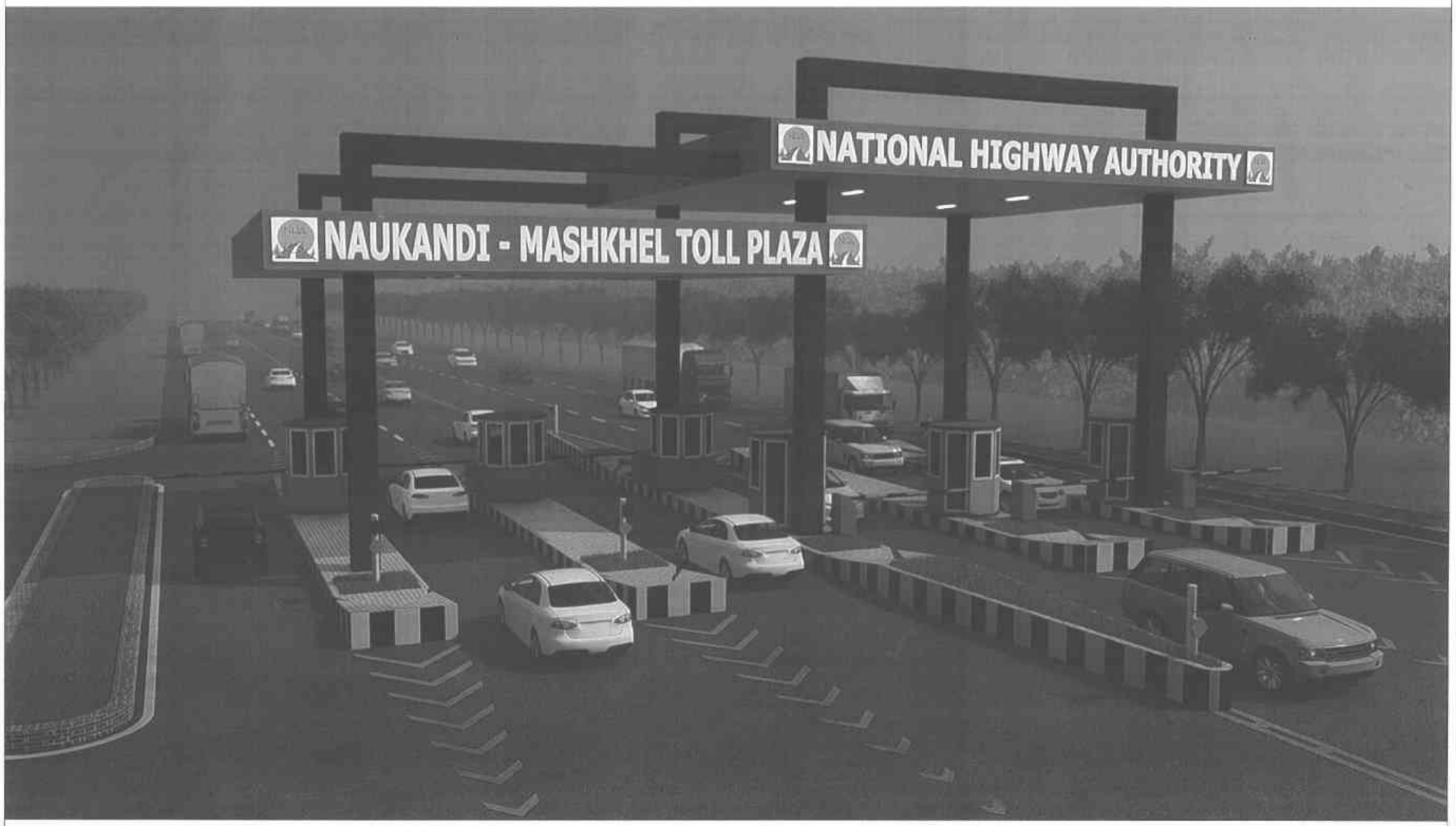
DRAWING TITLE:

LIST OF DRAWINGS
TOLL PLAZA

DESIGN BY: SYED ATIF SHAH	SHEET NO: 01 OF 07
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV, 00

CAD FILE NAME:

ZI/KA/NK/TP/AR-00



NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

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MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEEBUK INTERNATIONAL (PVT) LTD
3rd Floor, Tariq Square Plaza,
I-8 Markaz, Islamabad
Ph: 051-4908243-5, FAX 051-4908245

IN ASSOCIATION WITH :

KASBI ASSOCIATES
ENGINEERS CONSULTANT
& ARCHITECTS

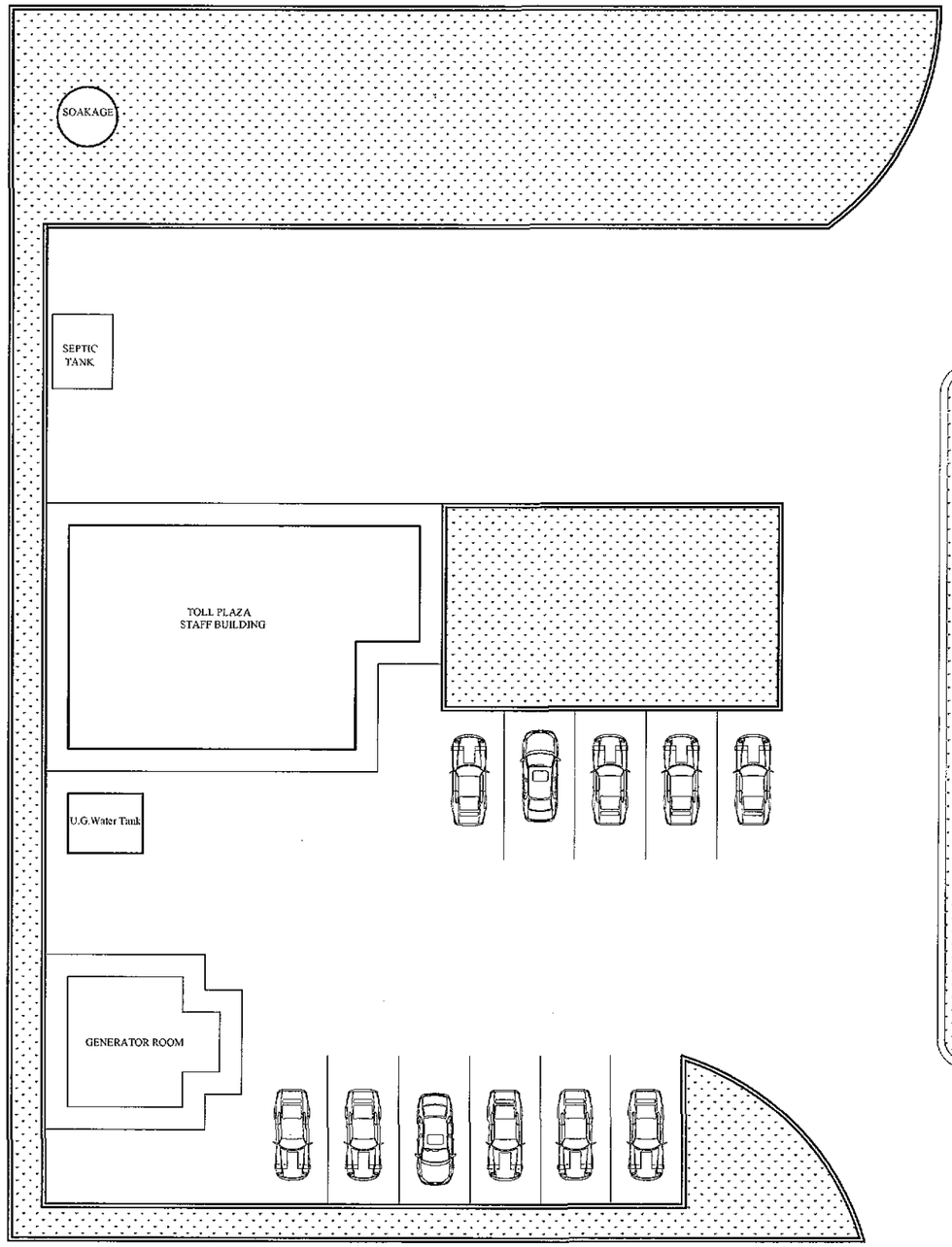
DRAWING TITLE:

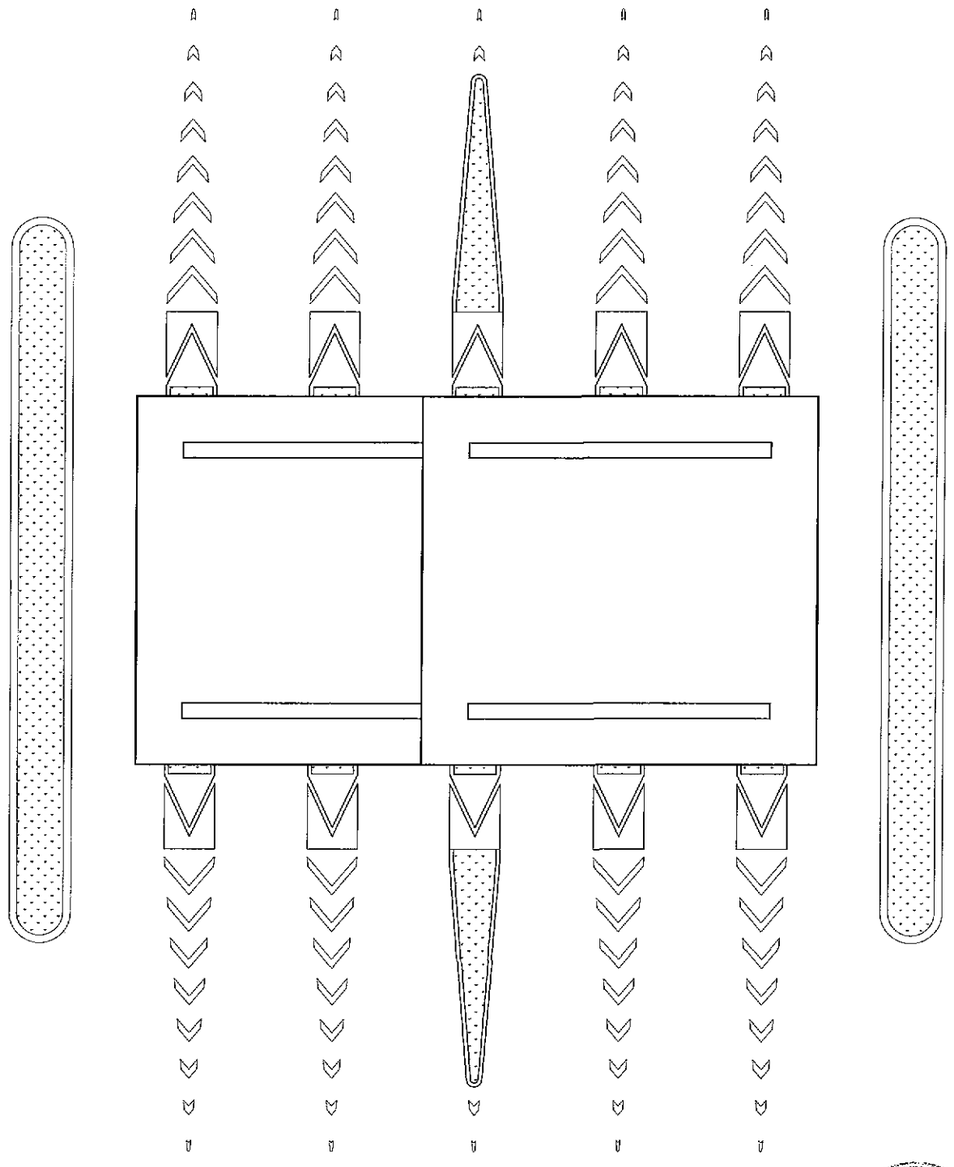
3D VIEW
TOLL PLAZA

DESIGN BY:	SHEET NO:
SYED ATIF SHAH	02 OF 03
DRAWN BY:	SCALE:
MUHAMMAD UMER	N.T.S
CHECKED BY:	DATE:
MUHAMMAD HADEEM	NOV, 2020
APPROVED BY:	REVISION:
ASIF MEHMOOD	REV 00

CAD FILE NAME:

ZUKA/NK/TP/AR-01





NOTES

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LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
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00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

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IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

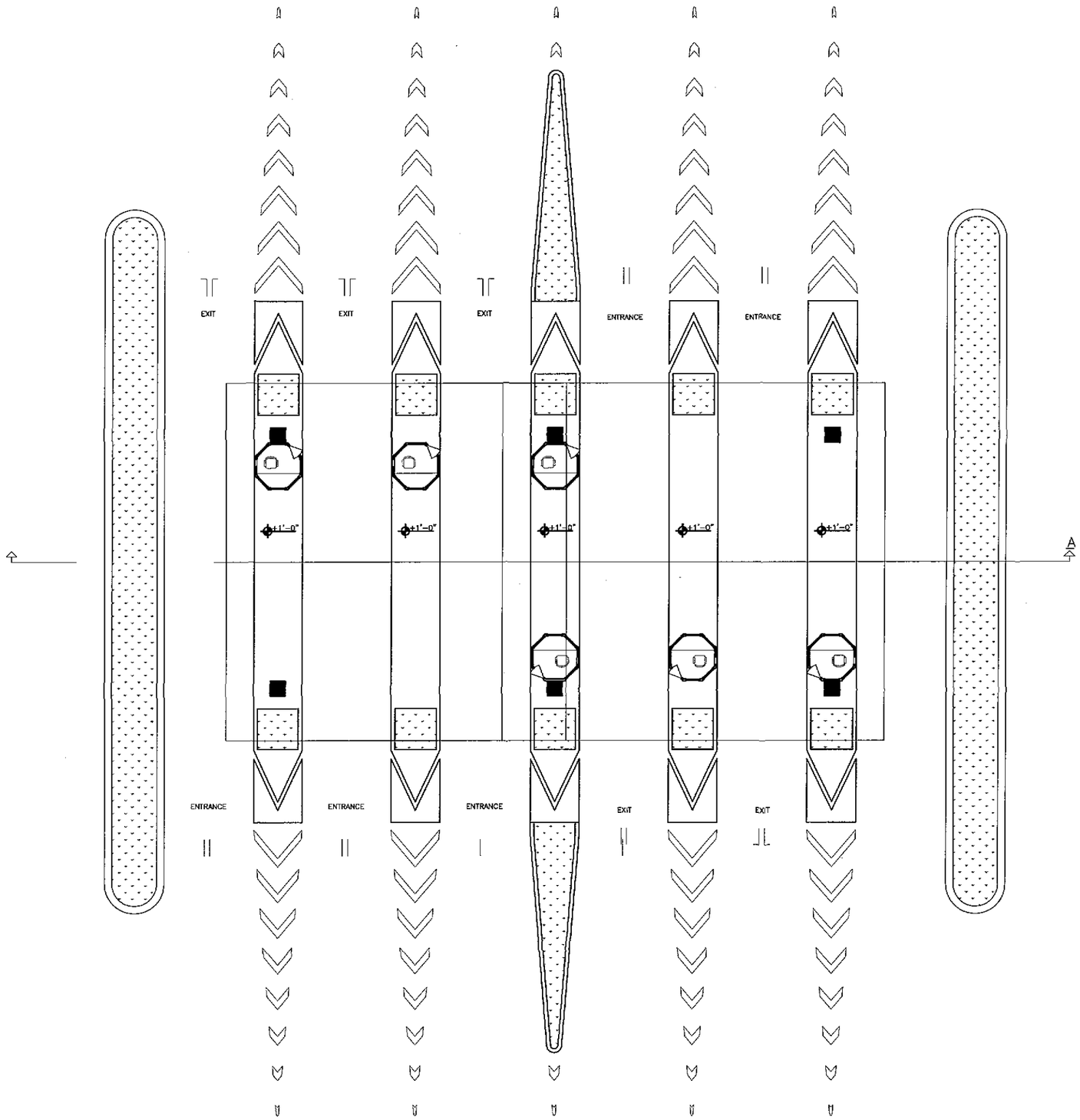
DRAWING TITLE:

MASTER PLAN
TOLL PLAZA

DESIGN BY:	SHEET NO:
SYED ATIF SHAH	03 OF 07
DRAWN BY:	SCALE:
MUHAMMAD UMER	N.T.S
CHECKED BY:	DATE:
MUHAMMAD NADEEM	NOV. 2020
APPROVED BY:	REVISION:
AMIR MEHMOOD	REV. 00

CAD FILE NAME:

ZI/KA/NK/TP/AR-02



NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

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NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

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I-8 Markaz, Islamabad.
Ph. 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS

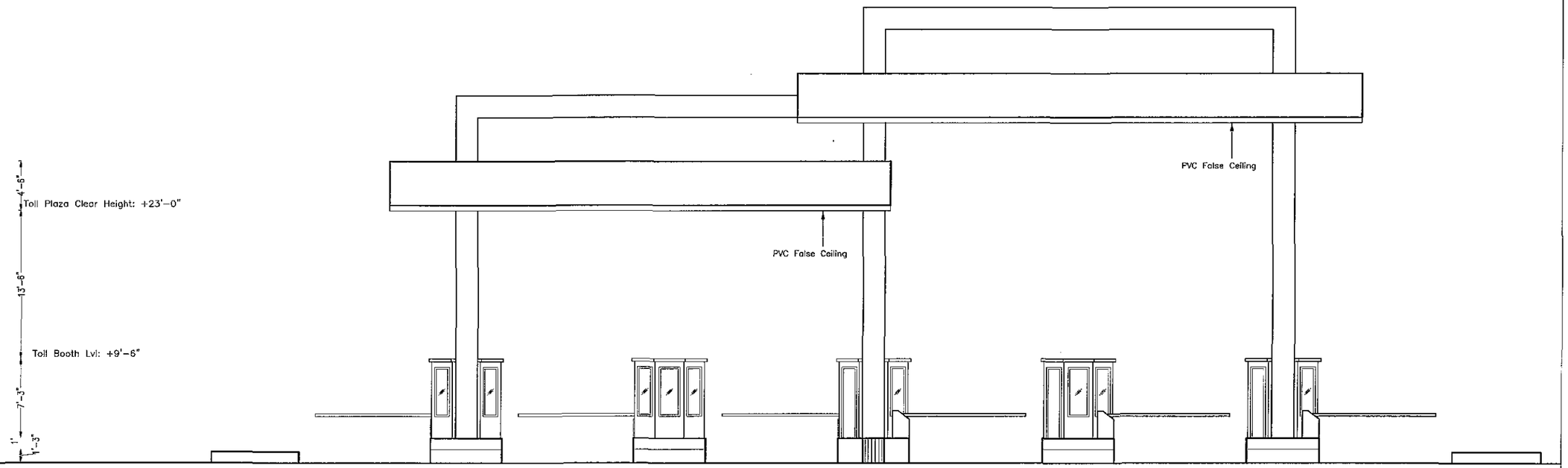
DRAWING TITLE:

FLOOR PLAN
TOLL PLAZA

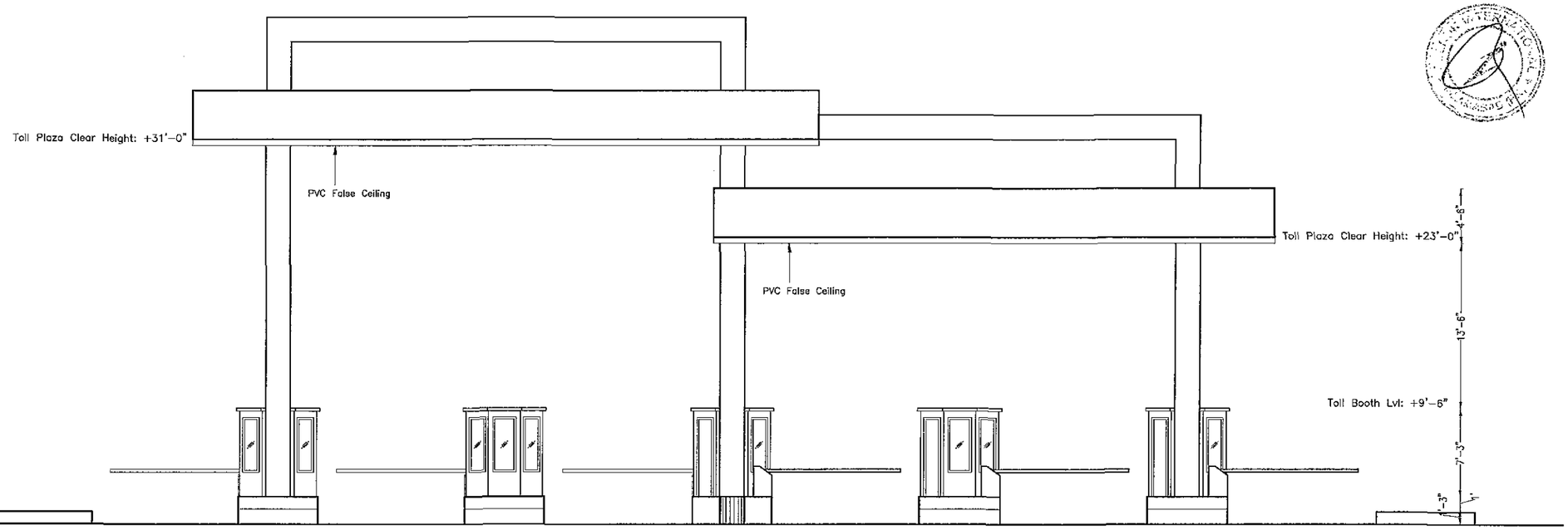
DESIGN BY:	SHEET NO:
SYED ATIF SHAH	04 OF 07
DRAWN BY:	SCALE:
MUHAMMAD UMER	N.T.S
CHECKED BY:	DATE:
MUHAMMAD NADEEM	NOV, 2020
APPROVED BY:	REVISION:
AMIR MEHMOOD	REV. 00

CAD FILE NAME:

ZI/KA/NK/TP/AR-03



FRONT ELEVATION



FRONT ELEVATION

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

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NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER, CONSULTANT
& ARCHITECTS

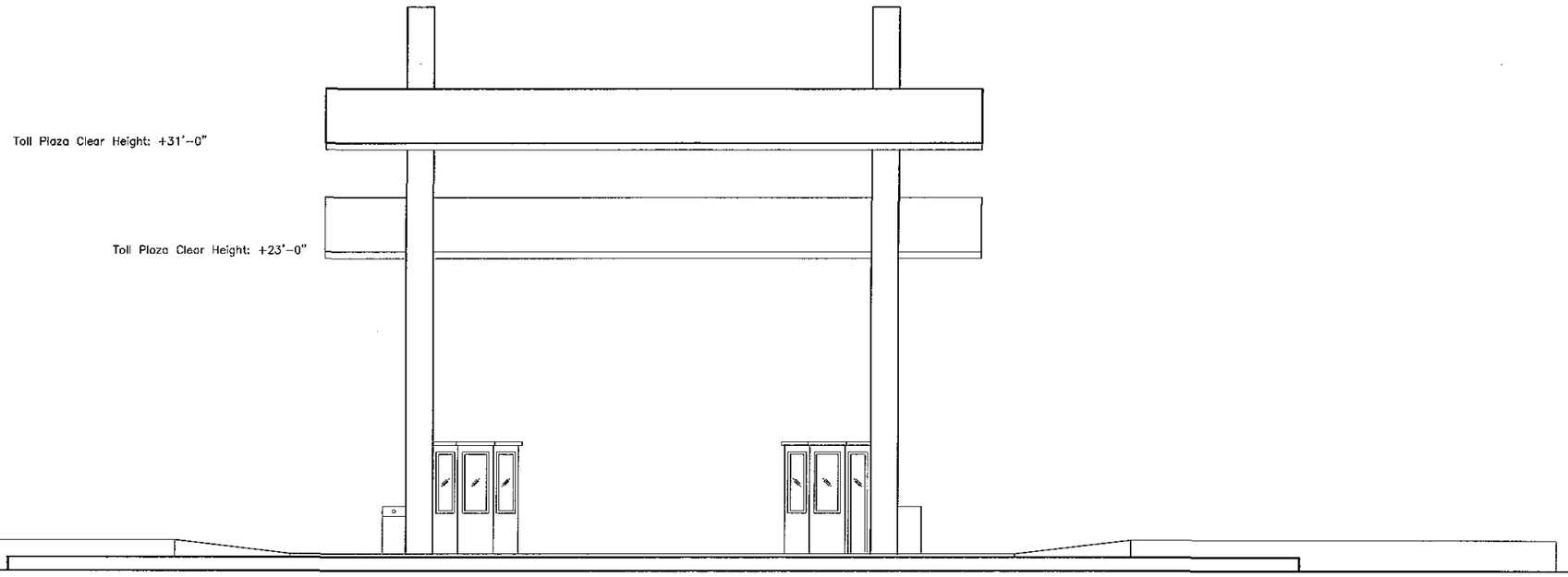
DRAWING TITLE:

FRONT ELEVATION
REAR ELEVATION
TOLL PLAZA

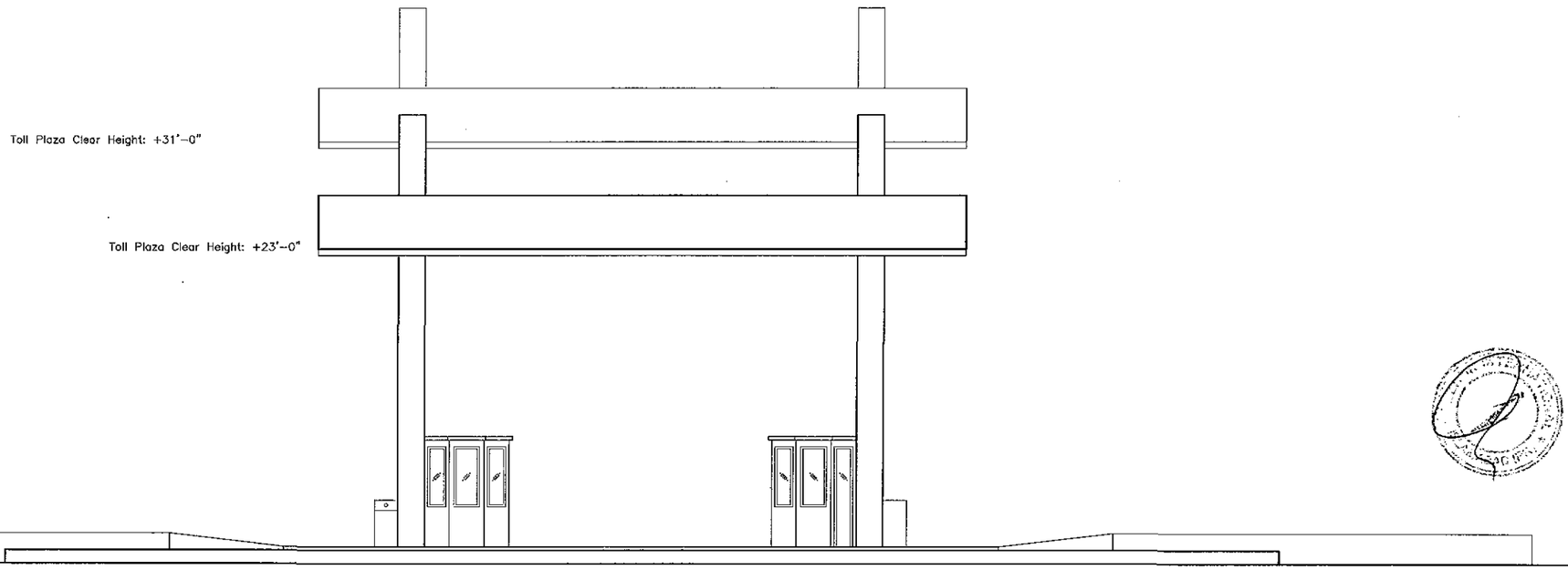
DESIGN BY: SYED ATIF SHAH	SHEET NO: 05 OF 07
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV. 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/TP/AR-04



RIGHT SIDE ELEVATION



LEFT SIDE ELEVATION

NOTES

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LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

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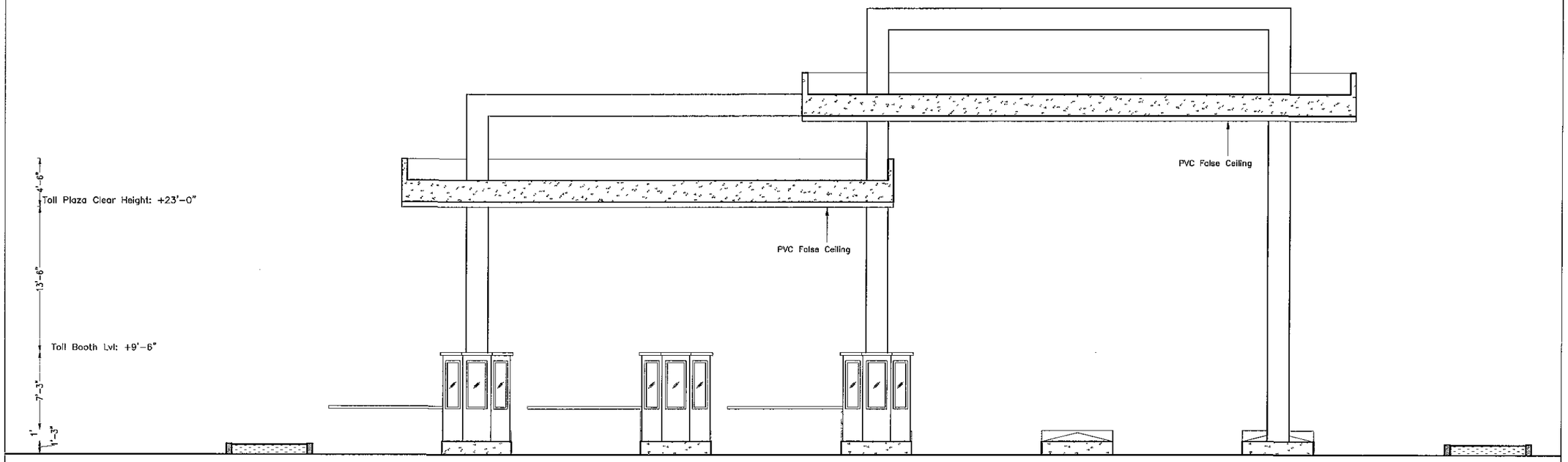
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

RIGHT SIDE ELEVATION
LEFT SIDE ELEVATION
TOLL PLAZA

DESIGN BY:	SHEET NO:
SYED ATIF SHAH	06 OF 07
DRAWN BY:	SCALE:
MUHAMMAD UMER	N.T.S
CHECKED BY:	DATE:
MUHAMMAD NADEEM	NOV. 2020
APPROVED BY:	REVISION:
AMIR MEHMOOD	REV. 00

CAD FILE NAME:
ZI/KA/NK/TP/AR-05



SECTION A-A

NOTES

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LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
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00		

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DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

SECTION A-A
TOLL PLAZA

DESIGN BY:	SHEET NO:
SYED ATIF SHAH	07 OF 07
DRAWN BY:	SCALE:
MUHAMMAD UMER	N.T.S
CHECKED BY:	DATE:
MUHAMMAD NADEEM	NOV, 2020
APPROVED BY:	REVISION:
AMIR MEHMOOD	REV. 00

CAD FILE NAME:

ZI/KA/NK/TP/AR-06

ARCHITECTURAL DRAWINGS
TOLL PLAZA STAFF BUILDING

LIST OF DRAWINGS

SERIAL NO.	DRAWING TITLE	DRAWING NO.
00	LIST OF DRAWINGS	ZI / KA / NK / SB/ AR-00
01	FINISHING SCHEDULE	ZI / KA / NK / SB/ AR-01
02	FLOOR PLAN	ZI / KA / NK / SB/ AR-02
03	ROOF PLAN	ZI / KA / NK / SB/ AR-03
04	FRONT ELEVATION REAR ELEVATION	ZI / KA / NK / SB/ AR-04
05	LEFT ELEVATION RIGHT ELEVATION	ZI / KA / NK / SB/ AR-05
06	SECTION A-A DETAILS	ZI / KA / NK / SB/ AR-06
07	SCHEDULE OF DOORS , WINDOSB	ZI / KA / NK / SB/ AR-07
08	KITCHEN PLAN	ZI / KA / NK / SB/ AR-08

NOTES

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LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

LIST OF DRAWINGS
MAIN TOLL PLAZA BUILDING

DESIGN BY:	SHEET NO:
SYED ATIF SHAH	00 OF 08
DRAWN BY:	SCALE:
MUHAMMAD UMER	N.T.S
CHECKED BY:	DATE:
MUHAMMAD NADEEM	NOV, 2020
APPROVED BY:	REVISION:
AMIR MEHMOOD	REV. 00

CAD FILE NAME:

ZI/KA/NK/SB/AR-00

FINISHING SCHEDULE

Location	Flooring	Indoor wall surface	Ceiling	Skirting
Bedroom	2'x2' Imported Porcelain Tiles	Emulsion paint wall	Synthetic emulsion paint	Tile skirting
Living Room	2'x2' Imported Porcelain Tiles	Emulsion paint wall	Synthetic emulsion paint	Tile skirting
Kitchen	1'x2' Imported Porcelain Tiles	Emulsion paint wall	Synthetic emulsion paint	Tile skirting
Baths	1'x2' Ceramic Tiles	Wall tile upto 7' height Emulsion paint wall	Synthetic emulsion paint	
Entrance Steps	Riser 3/4" Th. Approved Marble Tread 3/8" Th. Approved Marble			
ALL EXTERNAL AND INTERNAL WALLS, CEILING ARE PLASTER WITH (1:4) CEMENT SAND RATIO				
ALL BRICK WALLS WITH (1:6) CEMENT SAND RATIO				

NOTES

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LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :
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ISLAMABAD

CONSULTANT :
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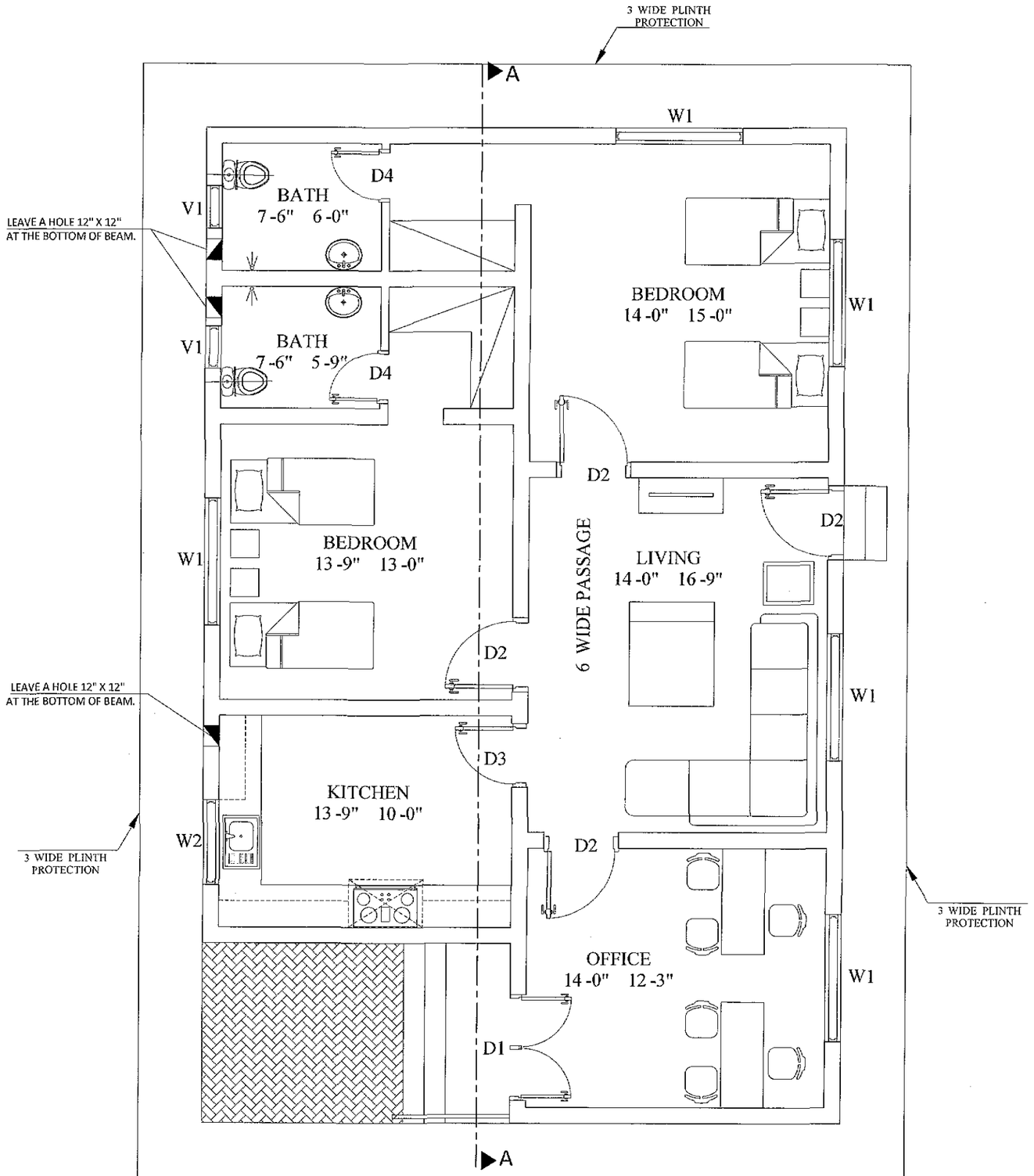
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
FINISHING SCHEDULE
MAIN TOLL PLAZA BUILDING

DESIGN BY: SYED ATIF SHAH	SHEET NO: 01 OF 08
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

CAD FILE NAME:
ZUKA/NK/SB/AR-01



FLOOR PLAN

NOTES

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LEGEND

ABBREVIATIONS

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ISLAMABAD

CONSULTANT :

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I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER, CONSULTANT
& ARCHITECTS.

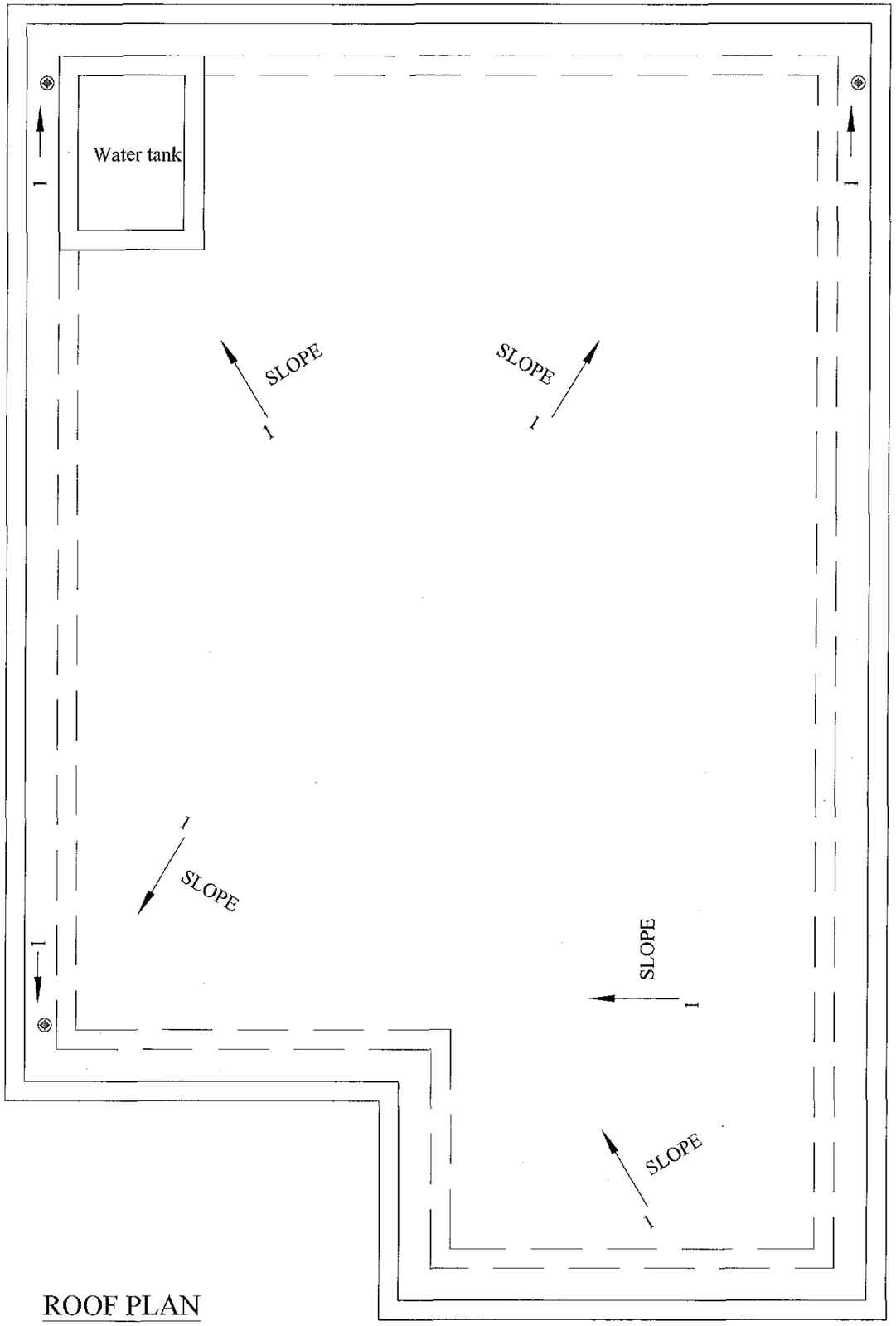
DRAWING TITLE:

FLOOR PLAN
MAIN TOLL PLAZA BUILDING

DESIGN BY: SYED ATIF SHAH	SHEET NO: 02 OF 08
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/SB/AR-02



ROOF PLAN

NOTES

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LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
1-B Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

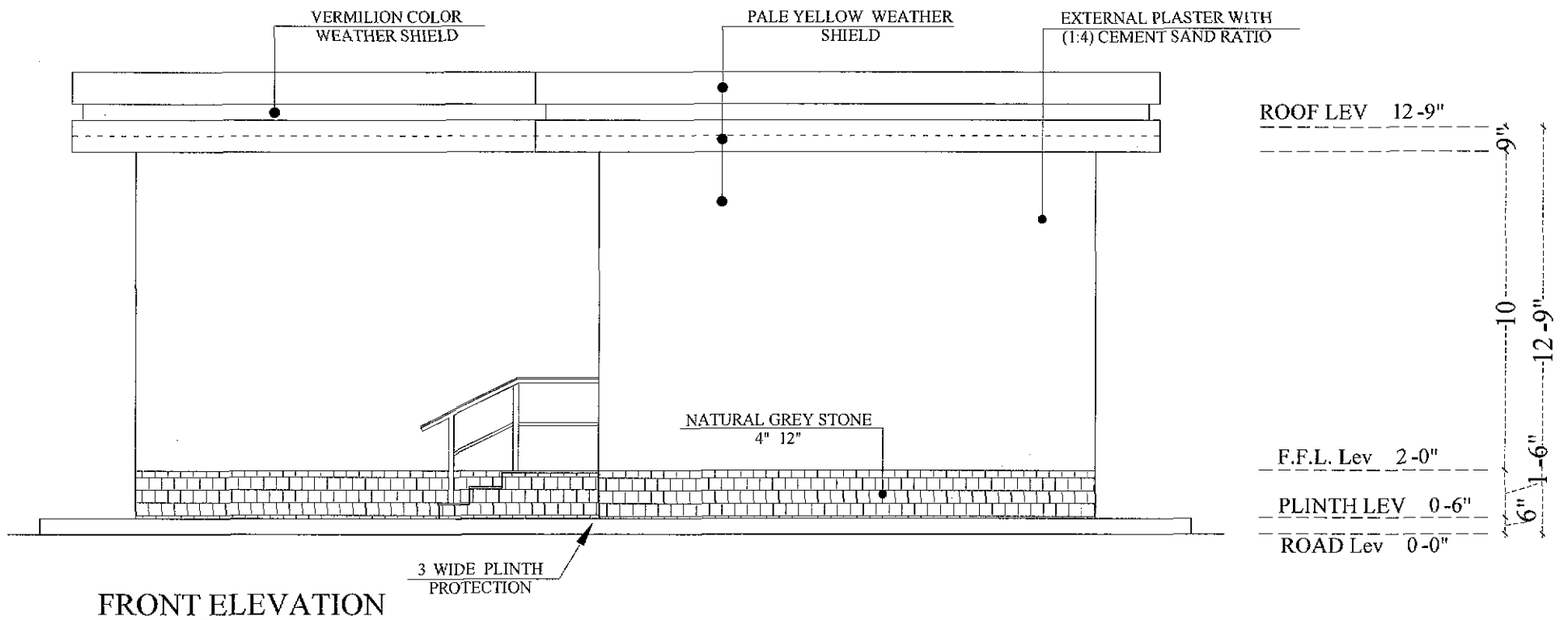
DRAWING TITLE:

ROOF PLAN
MAIN TOLL PLAZA BUILDING

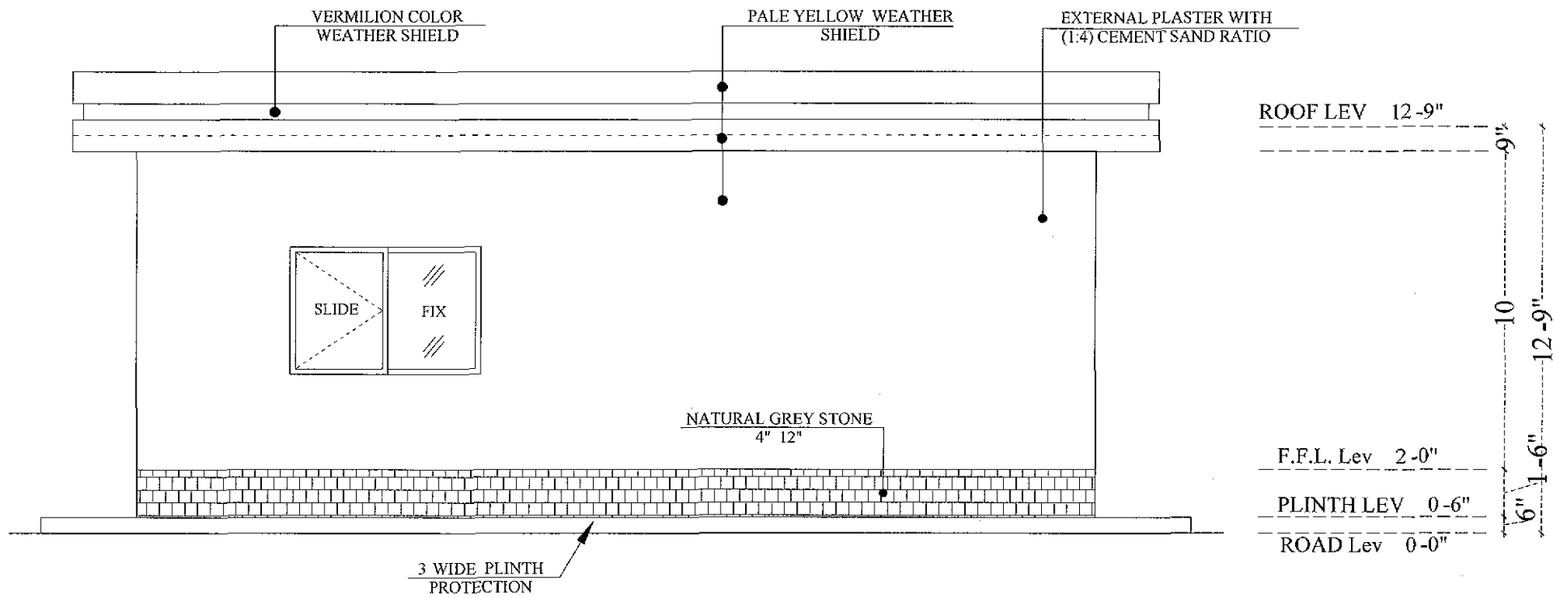
DESIGN BY:	SHEET NO:
SYED ATIF SHAH	03 OF 08
DRAWN BY:	SCALE:
MUHAMMAD UMER	N. T. S
CHECKED BY:	DATE:
MUHAMMAD NADEEM	NOV, 2020
APPROVED BY:	REVISION:
AMIR MEHMOOD	REV. 00

CAD FILE NAME:

ZUKA/NK/SB/AR-03



FRONT ELEVATION



REAR ELEVATION

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

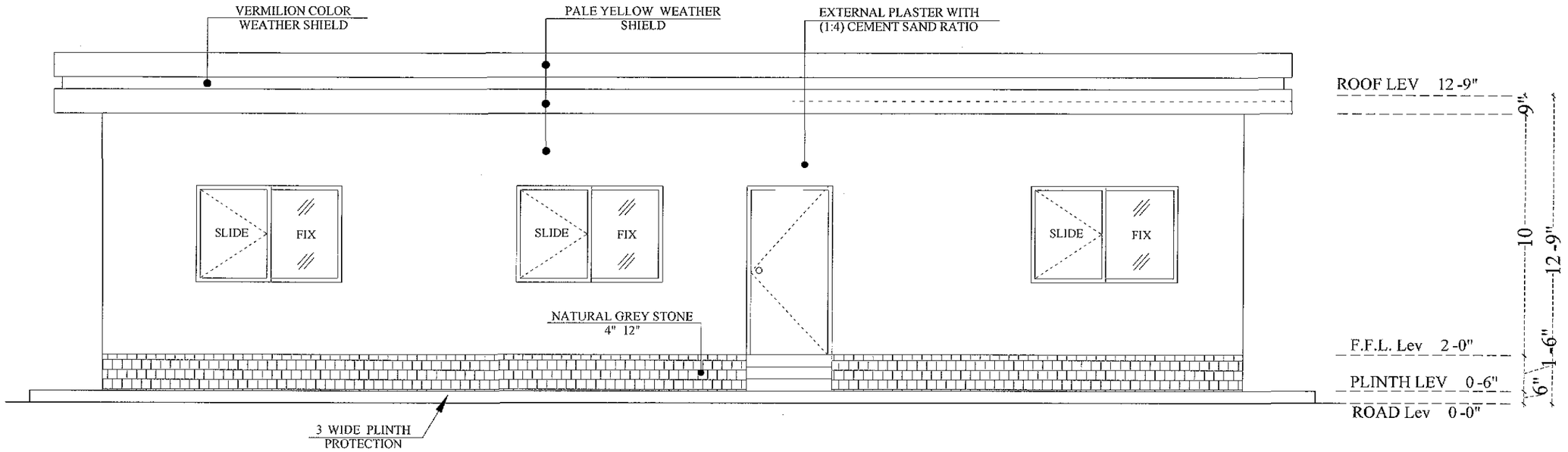
DRAWING TITLE:

FRONT ELEVATION
REAR ELEVATION
MAIN TOLL PLAZA BUILDING

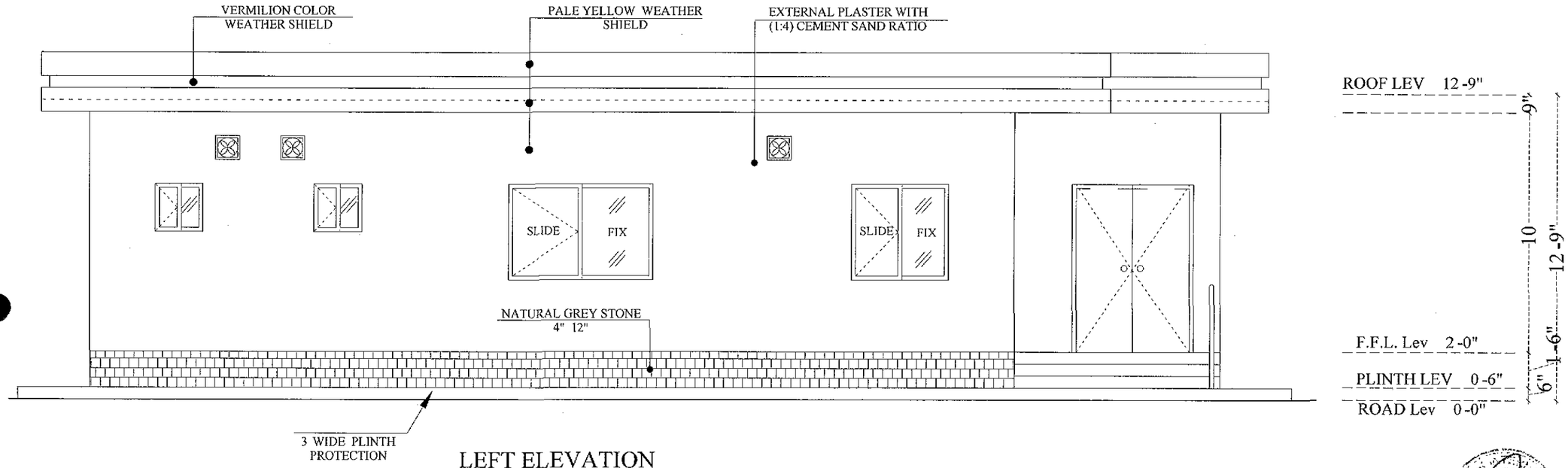
DESIGN BY: SYED ATIF SHAH	SHEET NO: 04 OF 08
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/SB/AR-04



RIGHT ELEVATION



LEFT ELEVATION

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDU TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4958213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

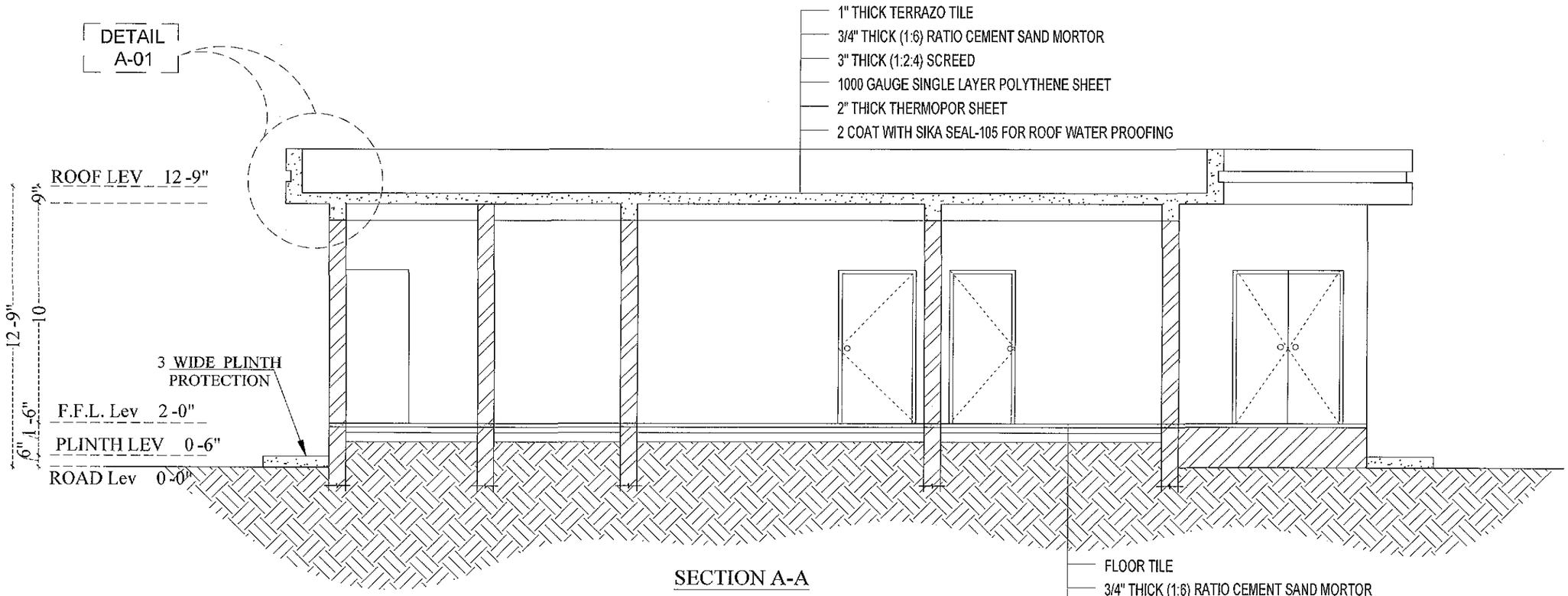
DRAWING TITLE:

RIGHT ELEVATION
LEFT ELEVATION
MAIN TOLL PLAZA BUILDING

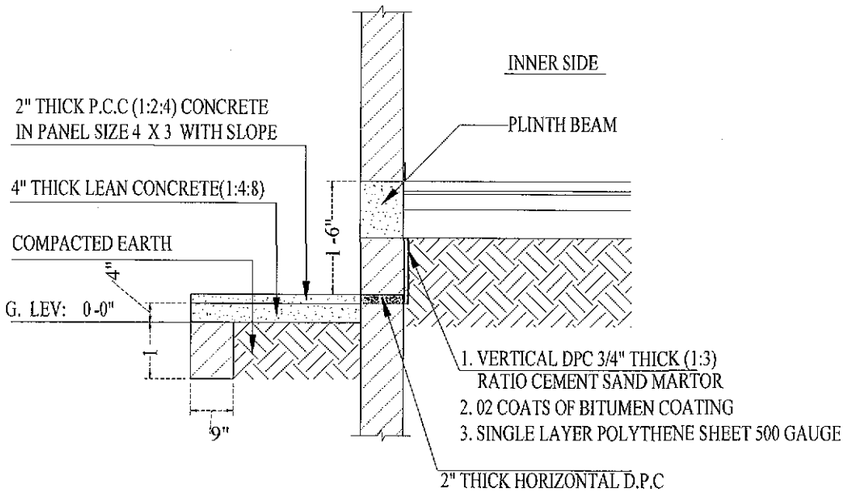
DESIGN BY: SYED ATIF SHAH	SHEET NO: 05 OF 08
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

CAD FILE NAME:

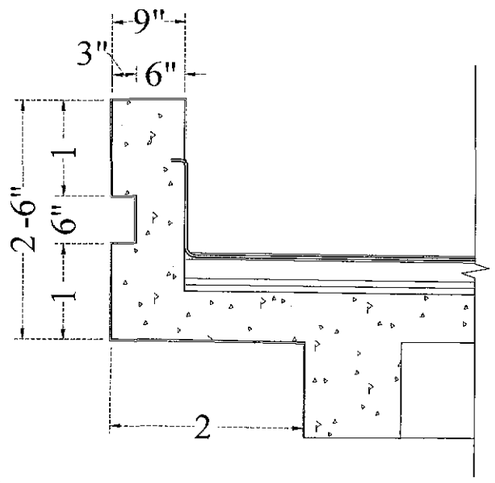
ZUKA/NK/SB/AR-05



SECTION A-A



DETAIL OF PLINTH PROTECTION



DETAIL A-01

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
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I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

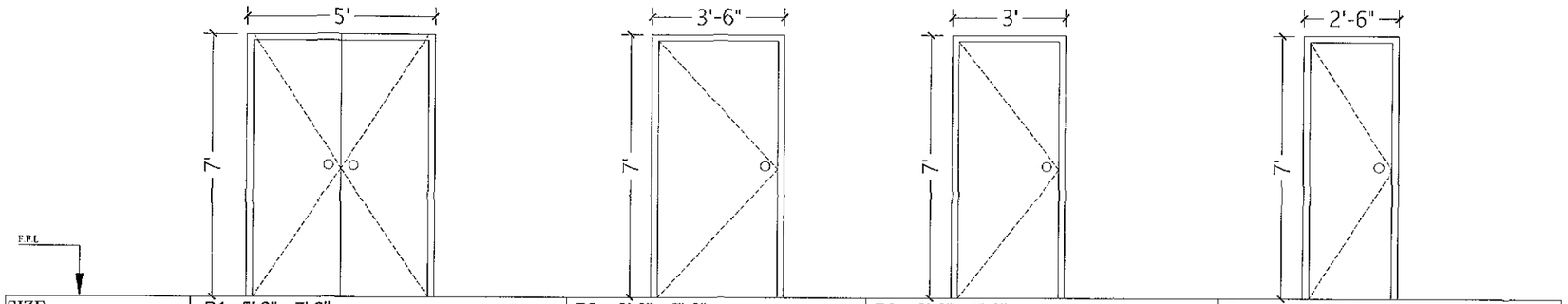
SECTION A-A

MAIN TOLL PLAZA BUILDING

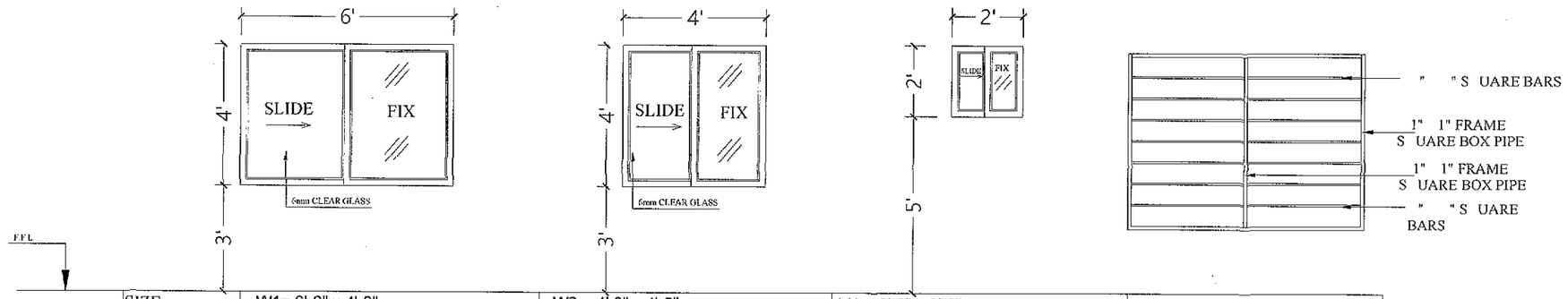
DESIGN BY: SYED ATIF SHAH	SHEET NO: 06 OF 08
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

CAD FILE NAME:

ZIKA/NK/SB/AR-06



SIZE	D1= 5'-0" x 7'-0"	D2 = 3'-6" x 7'-0"	D3 = 3'-0" x 7'-0"	D4 = 2'-6" x 7'-0"
TYPE	DOUBLE LEAF	SINGLE LEAF	SINGLE LEAF	SINGLE LEAF
DESCRIPTION	MALAYSIAN PLY FLUSH DOOR	MALAYSIAN PLY FLUSH DOOR	MALAYSIAN PLY FLUSH DOOR	MALAYSIAN PLY FLUSH DOOR



SIZE	W1= 6'-0" x 4'-0"	W2 = 4'-0" x 4'-0"	V1 = 2'-0" x 2'-0"	M/S BOX PIPE WINDOW GRILL (18 SWG)
TYPE	DOUBLE LEAF / PARTIALLY FIXED	DOUBLE LEAF / PARTIALLY FIXED	DOUBLE LEAF / PARTIALLY FIXED	
DESCRIPTION	ALUMINIUM WINDOW (1.6 mm)	ALUMINIUM WINDOW (1.6 mm)	ALUMINIUM GLASS VENTILATOR	

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

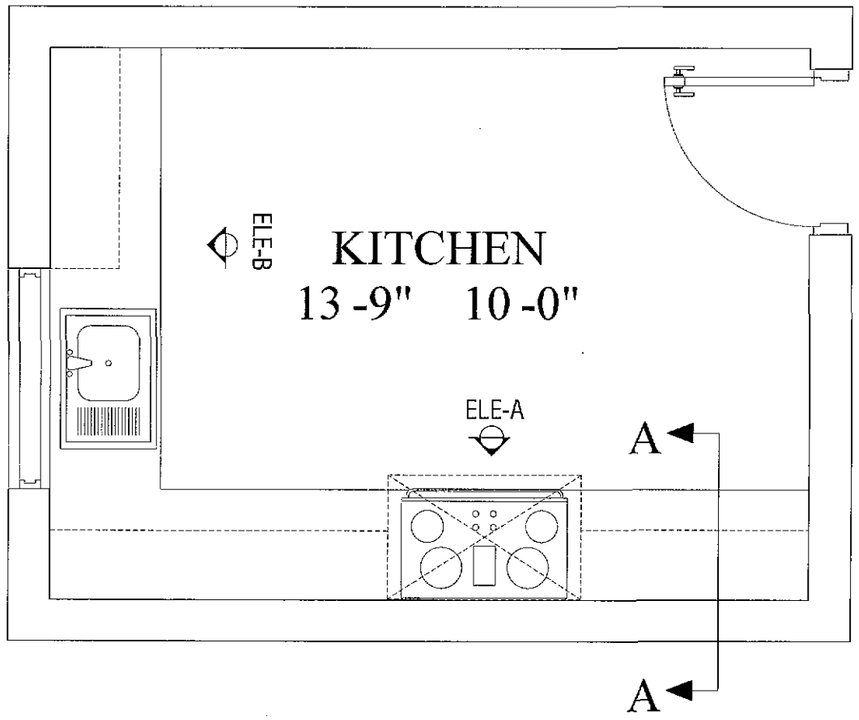
DOOR & WINDOSB SCHEDULE

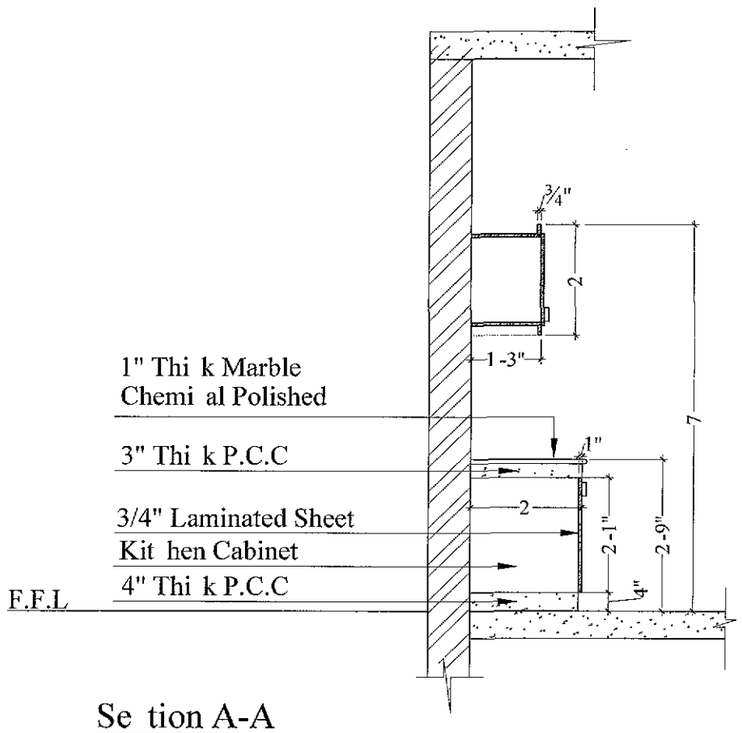
MAIN TOLL PLAZA BUILDING

DESIGN BY: SYED ATIF SHAH	SHEET NO: 07 OF 08
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

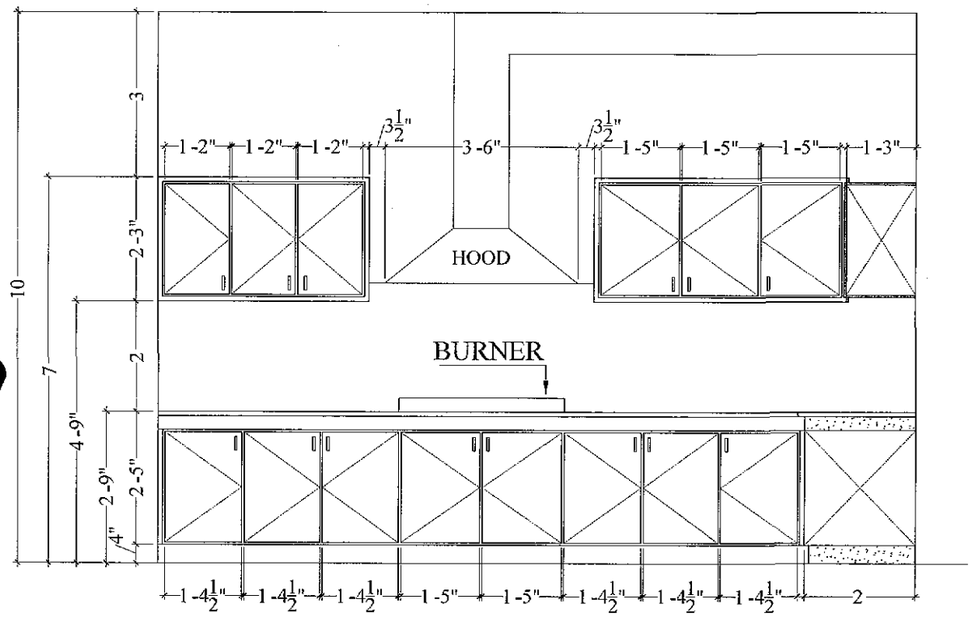
CAD FILE NAME:

ZI/KA/NK/SB/AR-07

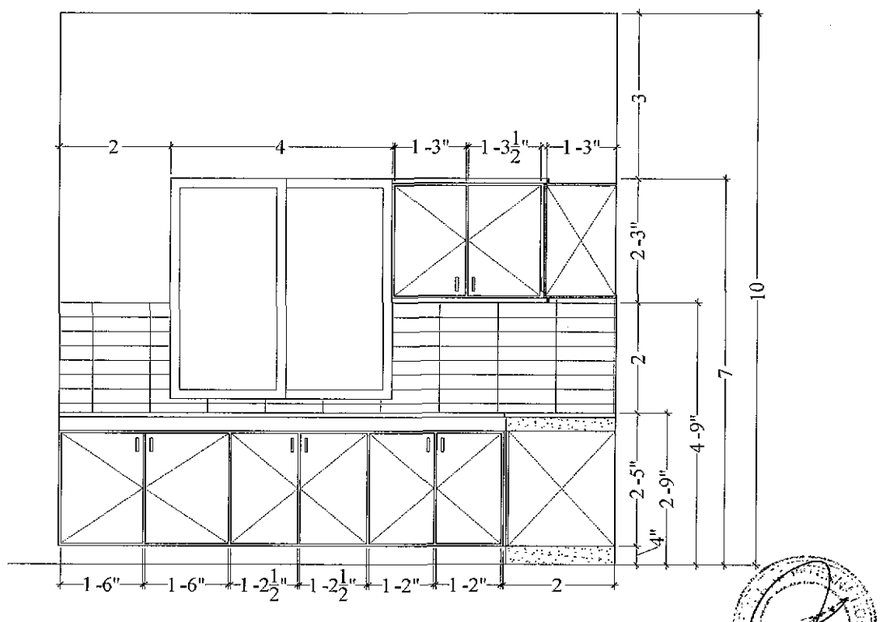




Se tion A-A



Elevation A



Elevation B

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL,(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

KITCHEN PLAN
MAIN TOLL PLAZA BUILDING

DESIGN BY: SYED ATIF SHAH	SHEET NO: 08 OF 08
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

CAD FILE NAME:

ZWKA/NK/SB/AR-08

ARCHITECTURAL DRAWINGS
FOR
GENERATOR ROOM

LIST OF DRAWINGS (04 LANE TOLL PLAZA)

SERIAL NO.	DRAWING TITLE	DRAWING NO.
00	TITLE (GENERATOR ROOM)	
01	LIST OF DRAWINGS	ZI / KA / NK / GR/ AR-00
02	FINISHING SCHEDULE	ZI / KA / NK / GR/ AR-01
03	FLOOR PLAN	ZI / KA / NK / GR/ AR-02
04	WORKING PLAN	ZI / KA / NK / GR/ AR-03
05	FRONT ELEVATION REAR ELEVATION	ZI / KA / NK / GR/ AR-04
06	RIGHT SIDE ELEVATION LEFT SIDE ELEVATION	ZI / KA / NK / GR/ AR-5
07	SECTION A-A DETAIL A-01 DETAIL A-02	ZI / KA / NK / GR/ AR-06
08	DOOR & WINDOWS SCHEDULE	ZI / KA / NK / GR/ AR-07

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
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IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

LIST OF DRAWINGS
GENERATOR ROOM

DESIGN BY: SYED ATIF SHAH	SHEET NO: 00 OF 07
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/GR/AR-00

FINISHING SCHEDULE

LOCATION	FLOORING	INDOOR WALL SURFACE	CEILING	SKIRTING
GENERATOR ROOM	TERRAZZO TILE	PLASTIC EMULSION PAINT ON WALL	SYNTHETIC EMULSION PAINT	TERRAZZO TILE SKIRTING 4" HEIGHT
RAMP	R.C.C RAMP			

GENERAL NOTES

* ALL EXTERNAL AND INTERNAL WALLS, CEILING ARE PLASTER WITH (1:4) CEMENT SAND RATIO	* ALL EXTERNAL WALLS AND SHADES ARE WEATHER SHIELD FINISH AS PER APPROVED COLOR
* ALL HOLLOW CONCRETE BLOCK (1500 PSI) WALLS WITH (1:3) CEMENT SAND RATIO	* ROOF TREATMENT FOLLOWS AS PER ISSUED DRAWINGS

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

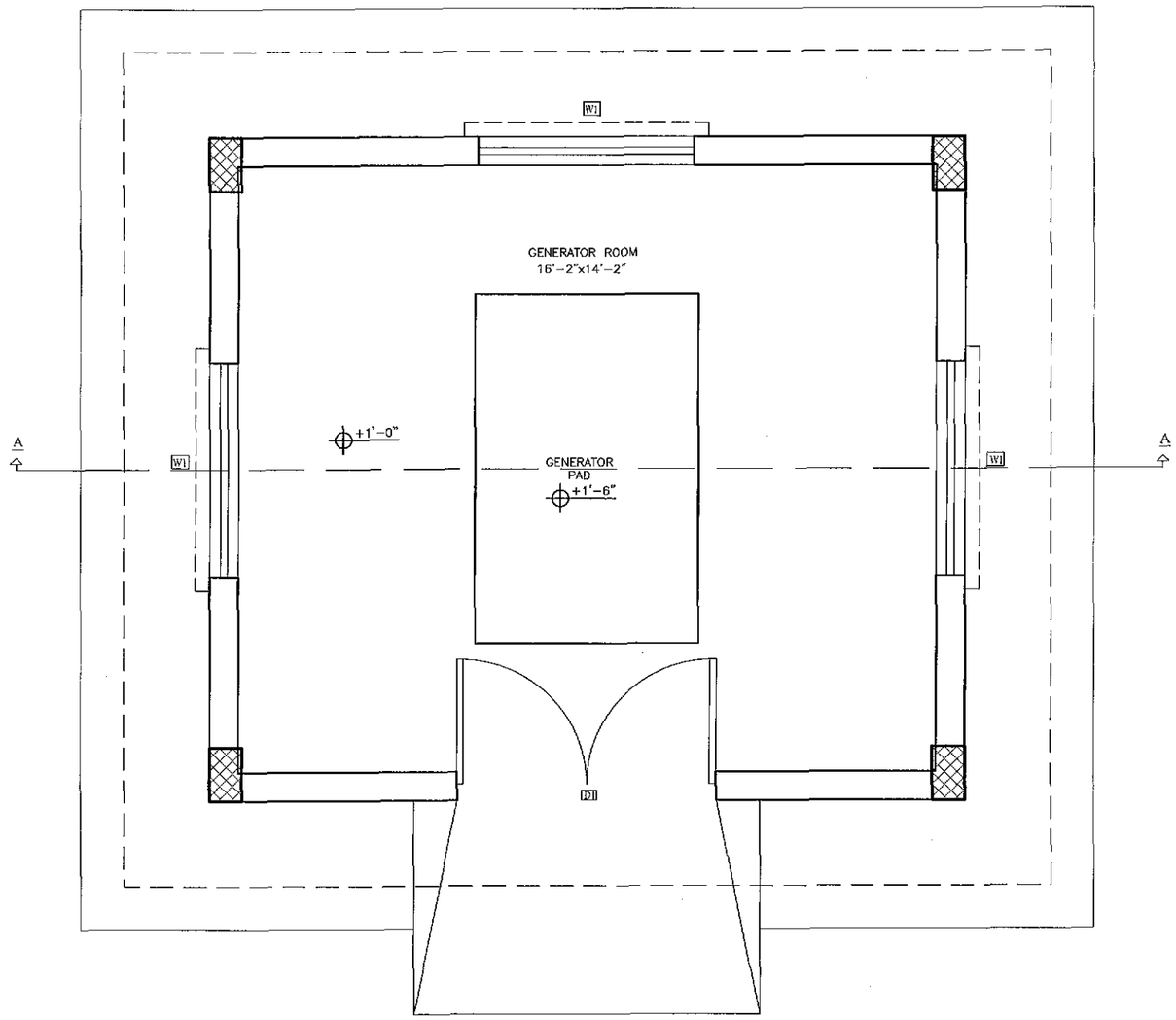
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS

DRAWING TITLE:

FINISHING SCHEDULE
GENERATOR ROOM

DESIGN BY: SYED ATIF SHAH	SHEET NO: 01 OF 07
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/GR/AR-01



NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED

LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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3rd Floor, Time Square Plaza,
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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

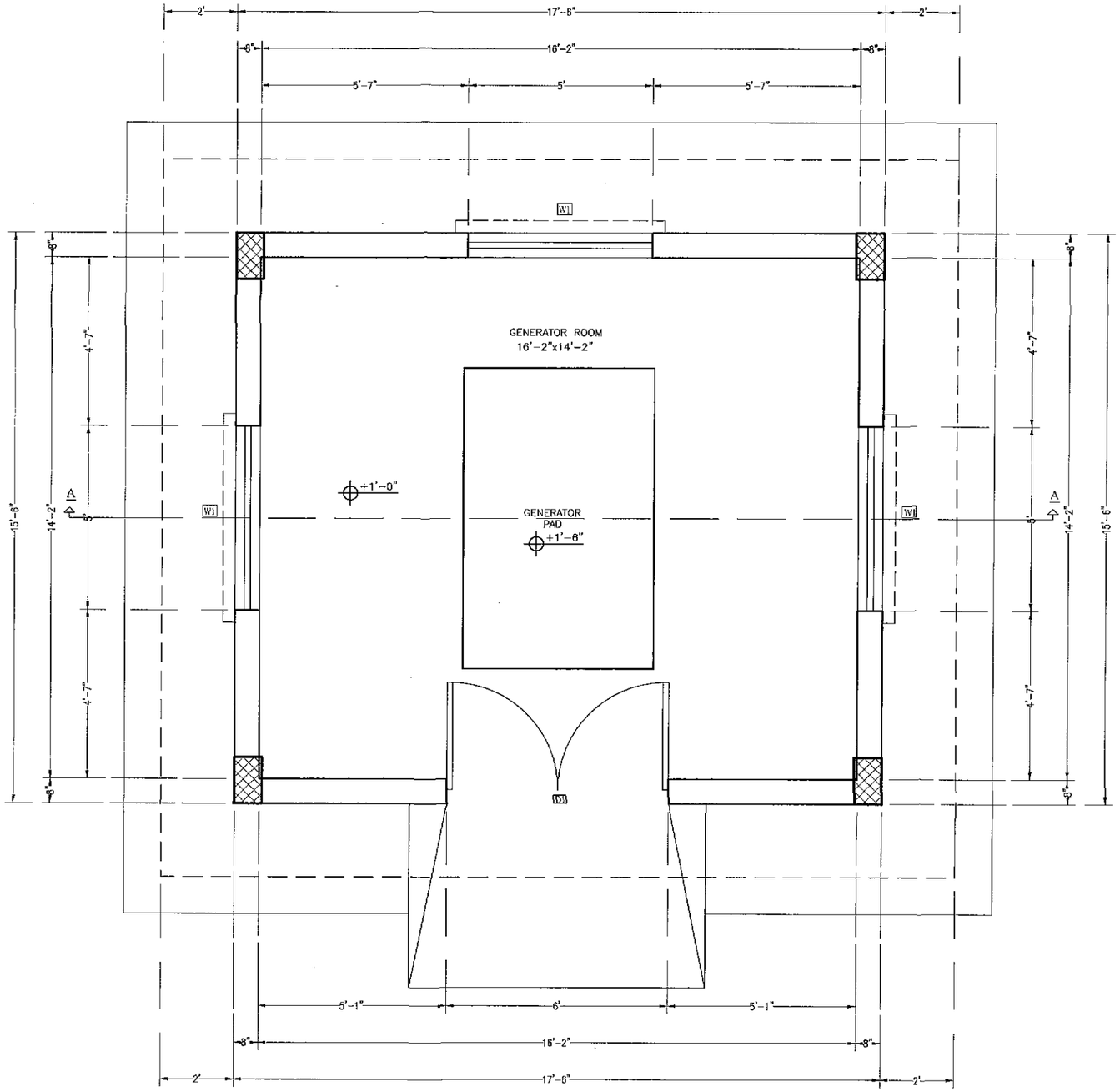
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

FLOOR PLAN
GENERATOR ROOM

DESIGN BY: SYED ATIF SHAH	SHEET NO: 02 OF 07
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/GR/AR-02



NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4958213-4, FAX: 051-4958215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

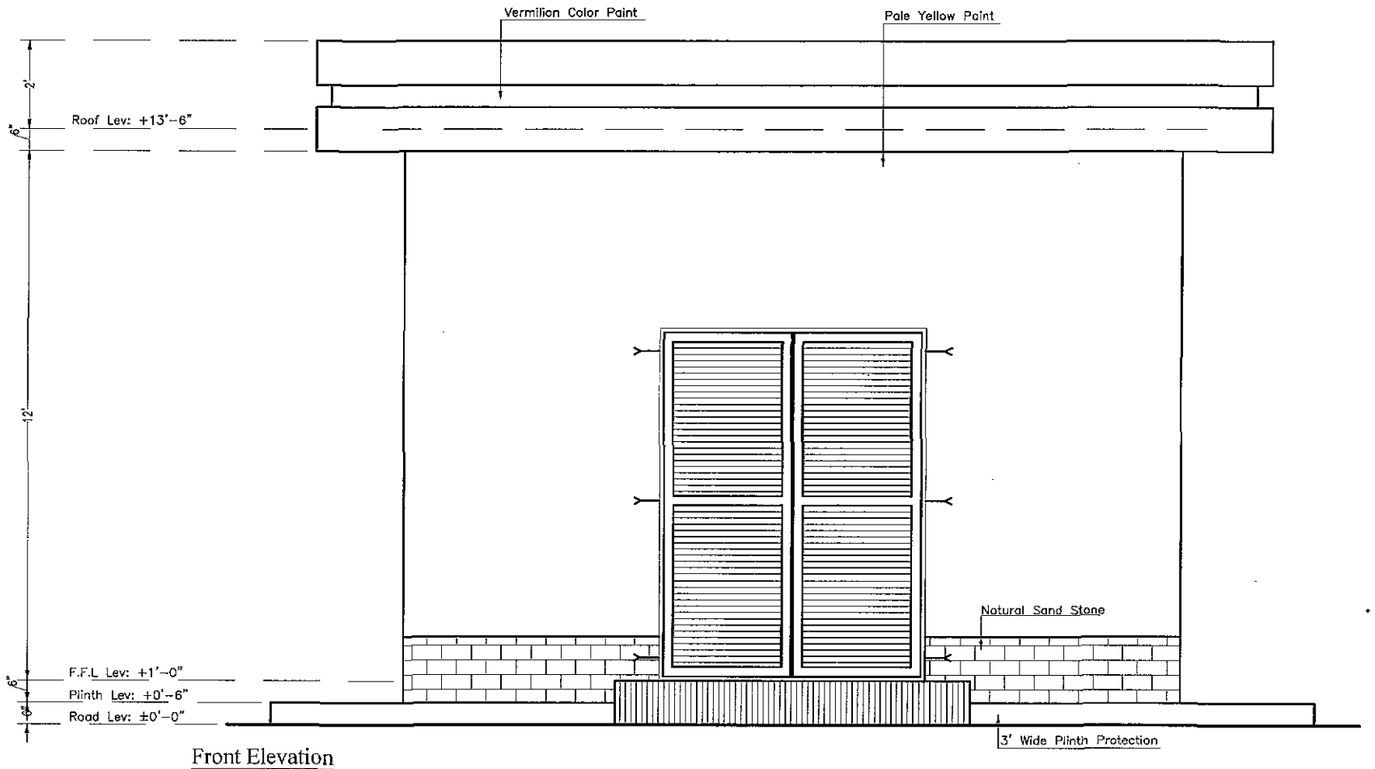
DRAWING TITLE:

WORKING PLAN
GENERATOR ROOM

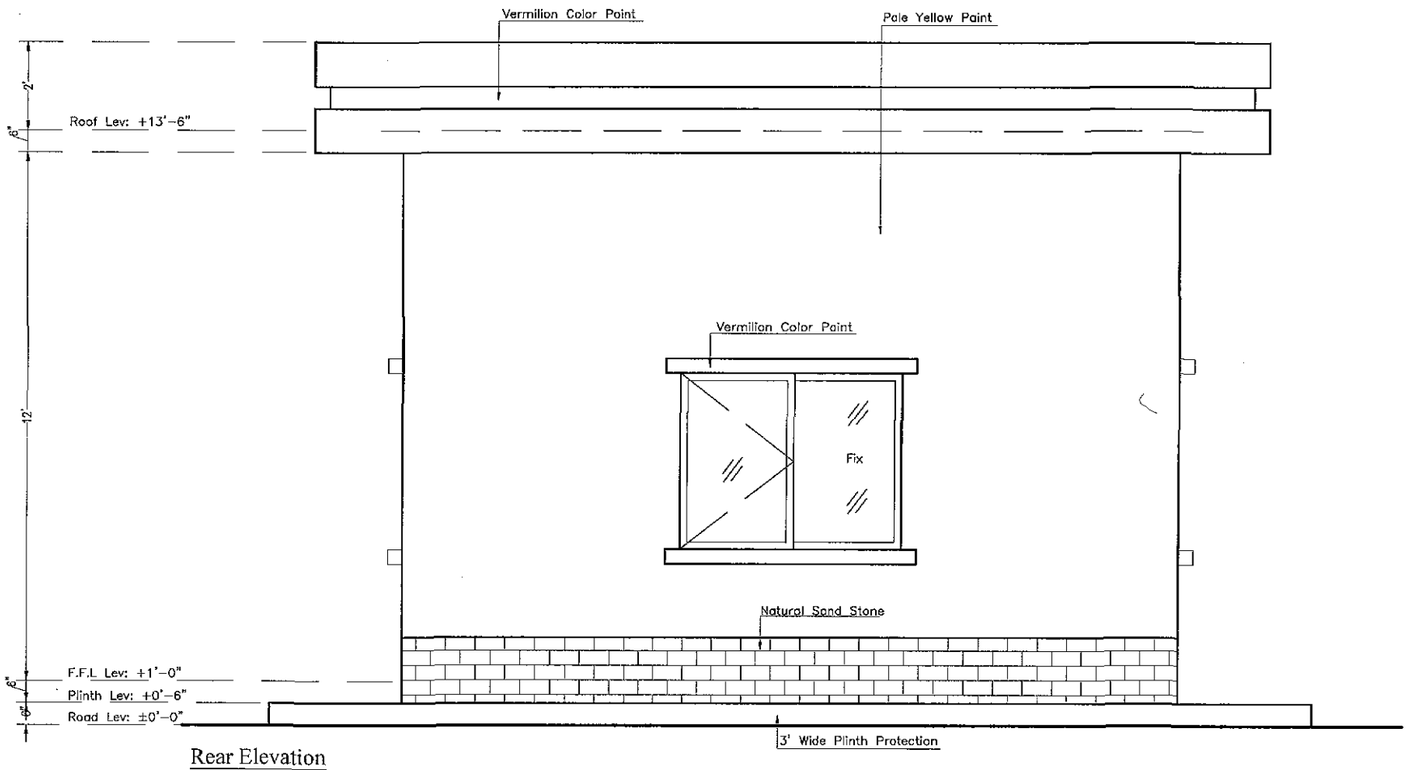
DESIGN BY: SYED ATIF SHAH	SHEET NO: 03 OF 07
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV. 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/GR/AR-03



Front Elevation



Rear Elevation

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
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Ph. 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

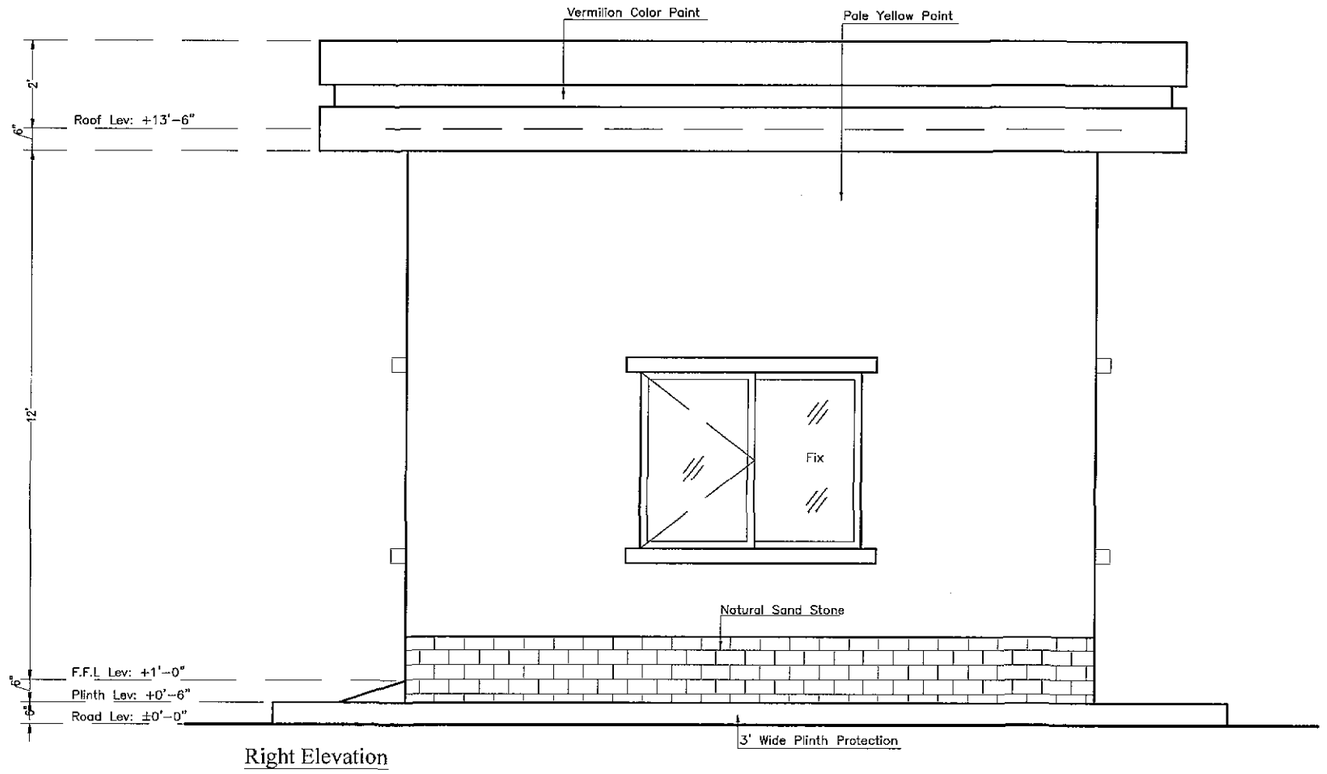
DRAWING TITLE:

FRONT ELEVATION
REAR ELEVATON
GENERATOR ROOM

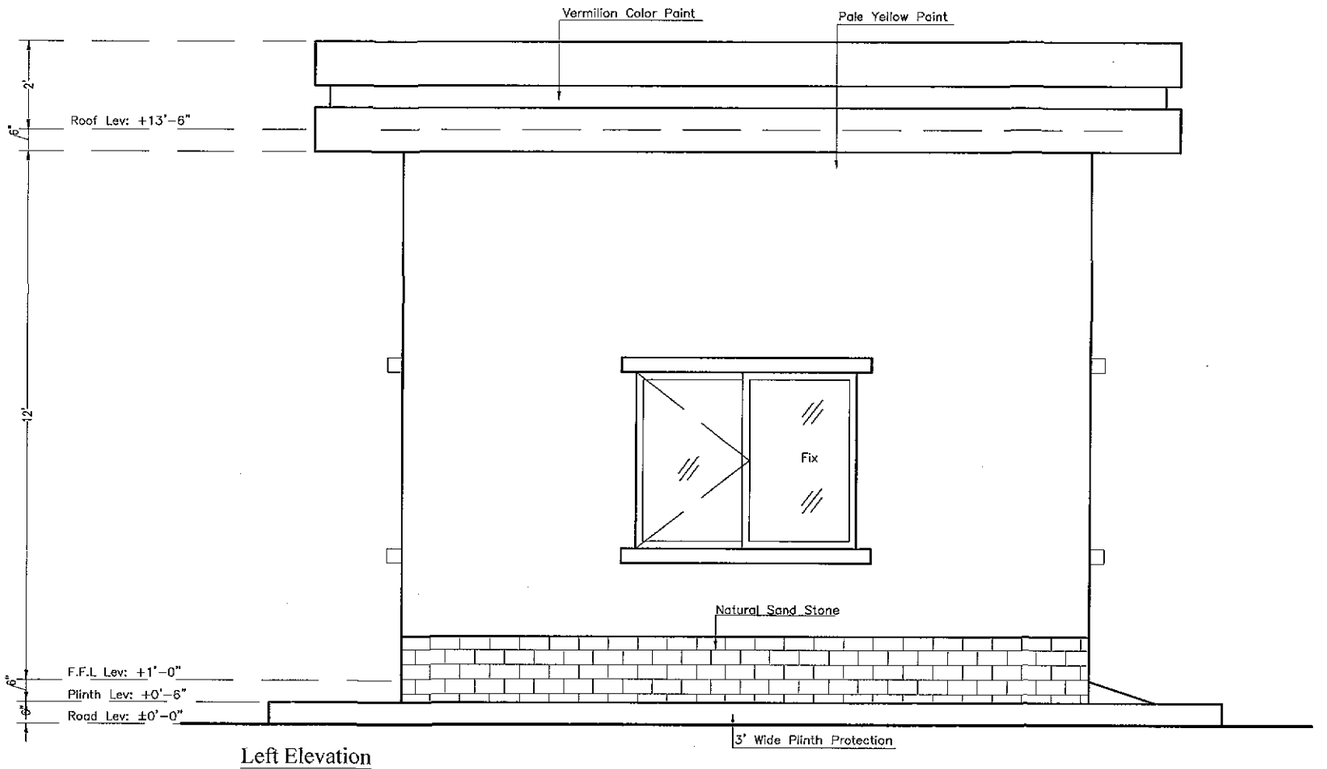
DESIGN BY: SYED ATIF SHAH	SHEET NO: 04 OF 07
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/GR/AR-04



Right Elevation



Left Elevation

NOTES

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LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
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ISLAMABAD

CONSULTANT :

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Ph: 051-4938313-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

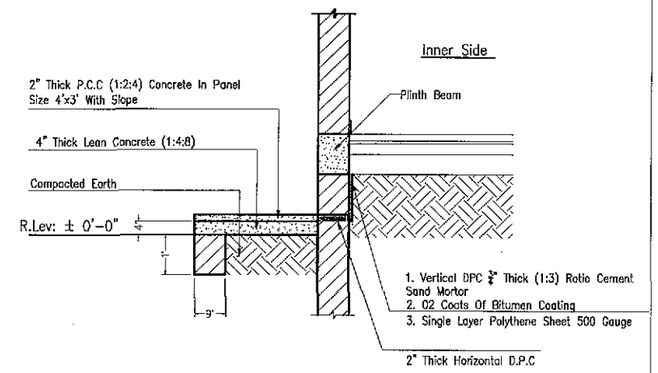
DRAWING TITLE:

RIGHT SIDE ELEVATION
LEFT SIDE ELEVATION
GENERATOR ROOM

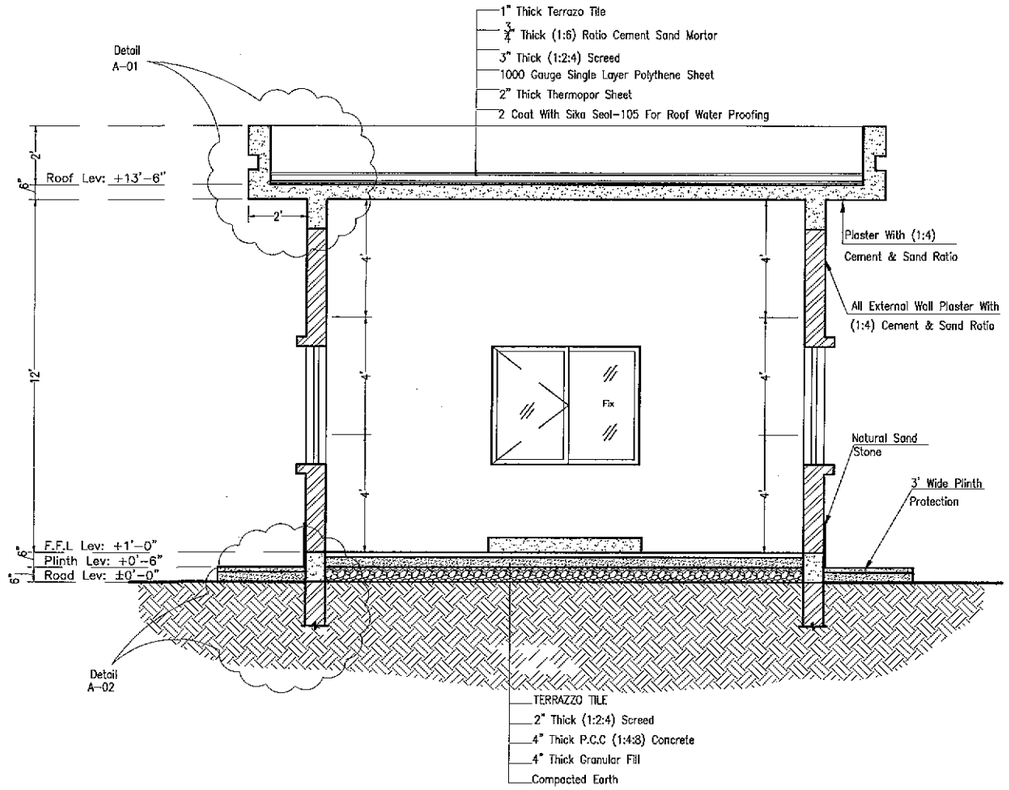
DESIGN BY: SYED ATIF SHAH	SHEET NO: 05 OF 07
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

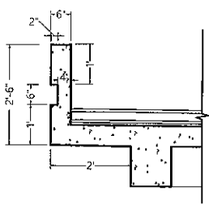
CAD FILE NAME:

ZI/KA/NK/GR/AR-05



DETAIL A-02
Scale - 1:22





DETAIL A-01
Scale - 1:22

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza.
I-8 Markaz, Islamabad.
Ph: 051-4958213-4, FAX: 051-4958215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

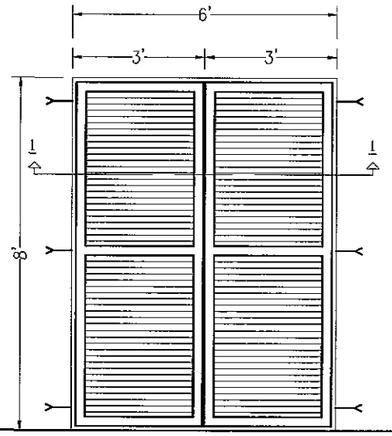
SECTION A-A
DETAIL A-01
DETAIL A-02
GENERATOR ROOM

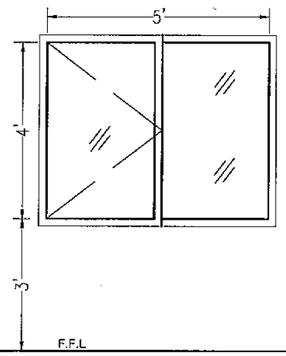
DESIGN BY: SYED ATIF SHAH	SHEET NO: 06 OF 07
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

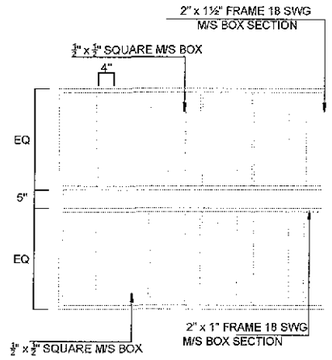
CAD FILE NAME:

ZI/KA/NK/GR/AR-06

DOOR & WINDOW DETAIL







	D1	W1	M/S BOX PIPE WINDOW GRILL (18 SWG)
SIZE	6'-0" X 8'-0"	5'-0" X 4'-0"	
TYPE	DOUBLE LEAF HINGED	DOUBLE LEAF/PARTIALLY FIXED	
DESCRIPTION	M/S SHEET LOUVERED GATE	ALUMINIUM GLASS WINDOW	

SCHEDULE OF OPENING

Sr.No	DOORS	SIZE	SILL
1	D1	6'-0" x 8'-0"	
Sr.No	WINDOWS	SIZE	SILL
1	W1	5'-0" x 4'-0"	+4'-0"

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER CONSULTANT
& ARCHITECTS

DRAWING TITLE:

DOORS WINDOWS SCHEDULE
GENERATOR ROOM

DESIGN BY: SYED ATIF SHAH	SHEET NO: 07 OF 07
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/GR/AR-07

ARCHITECTURAL DRAWINGS
FOR
WEIGH STATION

LIST OF DRAWINGS (04 LANE TOLL PLAZA)

SERIAL NO.	DRAWING TITLE	DRAWING NO.
00	TITLE (WEIGH STATION BUILDING)	
01	LIST OF DRAWINGS	ZI / KA / NK / WS/ AR-00
02	FINISHING SCHEDULE	ZI / KA / NK / WS/ AR-01
03	FLOOR PLAN	ZI / KA / NK / WS/ AR-02
04	WORKING PLAN	ZI / KA / NK / WS/ AR-03
05	FRONT ELEVATION REAR ELEVATION	ZI / KA / NK / WS/ AR-04
06	RIGHT SIDE ELEVATION LEFT SIDE ELEVATION	ZI / KA / NK / WS/ AR-05
07	SECTION A-A DETAIL A-01 DETAIL A-02	ZI / KA / NK / WS/ AR-06
08	DOOR & WINDOWS SCHEDULE	ZI / KA / NK / WS/ AR-07
09	WARDROBE DETAILS	ZI / KA / NK / WS/ AR-08

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph. 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

FINISHING SCHEDULE
WEIGH STATION

DESIGN BY: SYED ATIF SHAH	SHEET NO: 00 OF 08
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/WS/AR-00

FINISHING SCHEDULE

LOCATION	FLOORING	INDOOR WALL SURFACE	CEILING	SKIRTING
REST ROOM	IMPORTED PORCELAIN TILES	PLASTIC EMULSION PAINT ON WALL	MINERAL BOARD CEILING AS APPROVED BY ARCHITECT / CLIENT	IMPORTED PORCELAIN TILES SKIRTING 4" HEIGHT
OFFICE	IMPORTED PORCELAIN TILES	PLASTIC EMULSION PAINT ON WALL	MINERAL BOARD CEILING AS APPROVED BY ARCHITECT / CLIENT	IMPORTED PORCELAIN TILES SKIRTING 4" HEIGHT
BATHROOMS	IMPORTED CERAMIC TILES	WALL TILE UPTO 7' HEIGHT AND EMULSION PAINT ON WALL	SYNTHETIC EMULSION PAINT	
ENTRANCE STEPS	RISER 3/8" TH.CHEMICAL POLISHED APPROVED MARBLE THREAD 3/4" TH.CHEMICAL POLISHED APPROVED MARBLE			

GENERAL NOTES

* ALL COLOR AND SIZE OF PORCELAIN AND CERAMIC TILES AS PER APPROVAL	* ALL EXTERNAL WALLS AND SHADES ARE WEATHER SHIELD FINISH AS PER APPROVED COLOR
* ALL EXTERNAL AND INTERNAL WALLS, CEILING ARE PLASTER WITH (1:4) CEMENT SAND RATIO	* ROOF TREATMENT FOLLOWS AS PER ISSUED DRAWINGS
* ALL HOLLOW CONCRETE BLOCK (1500 PSI) WALLS WITH (1:3) CEMENT SAND RATIO	* ALL KITCHEN AND TOILET VANITY DETAILS FOLLOWS AS PER ISSUED DRAWINGS

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
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I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

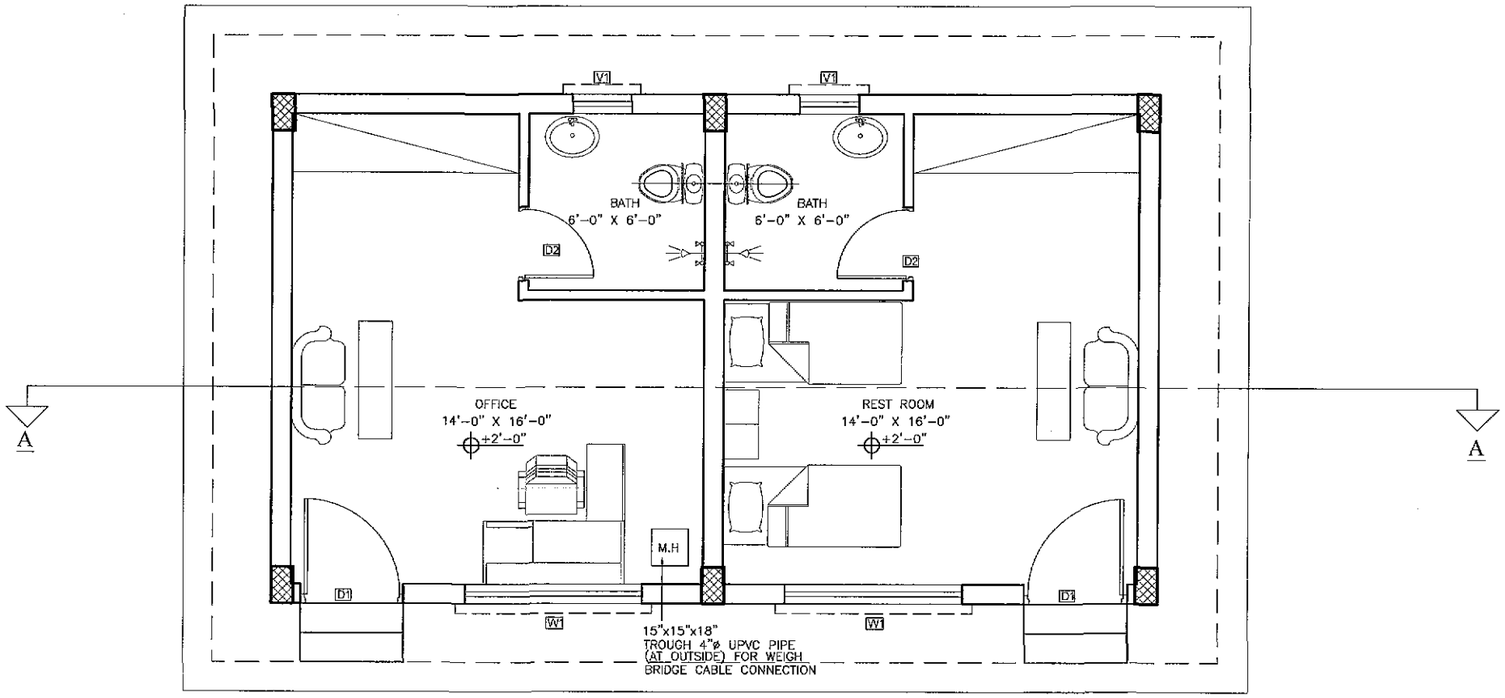
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

FINISHING SCHEDULE
WEIGH STATION

DESIGN BY: SYED ATIF SHAH	SHEET NO: 01 OF 08
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV 00

CAD FILE NAME:
ZI/KA/NK/WS/AR-01



NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER CONSULTANT
& ARCHITECTS.

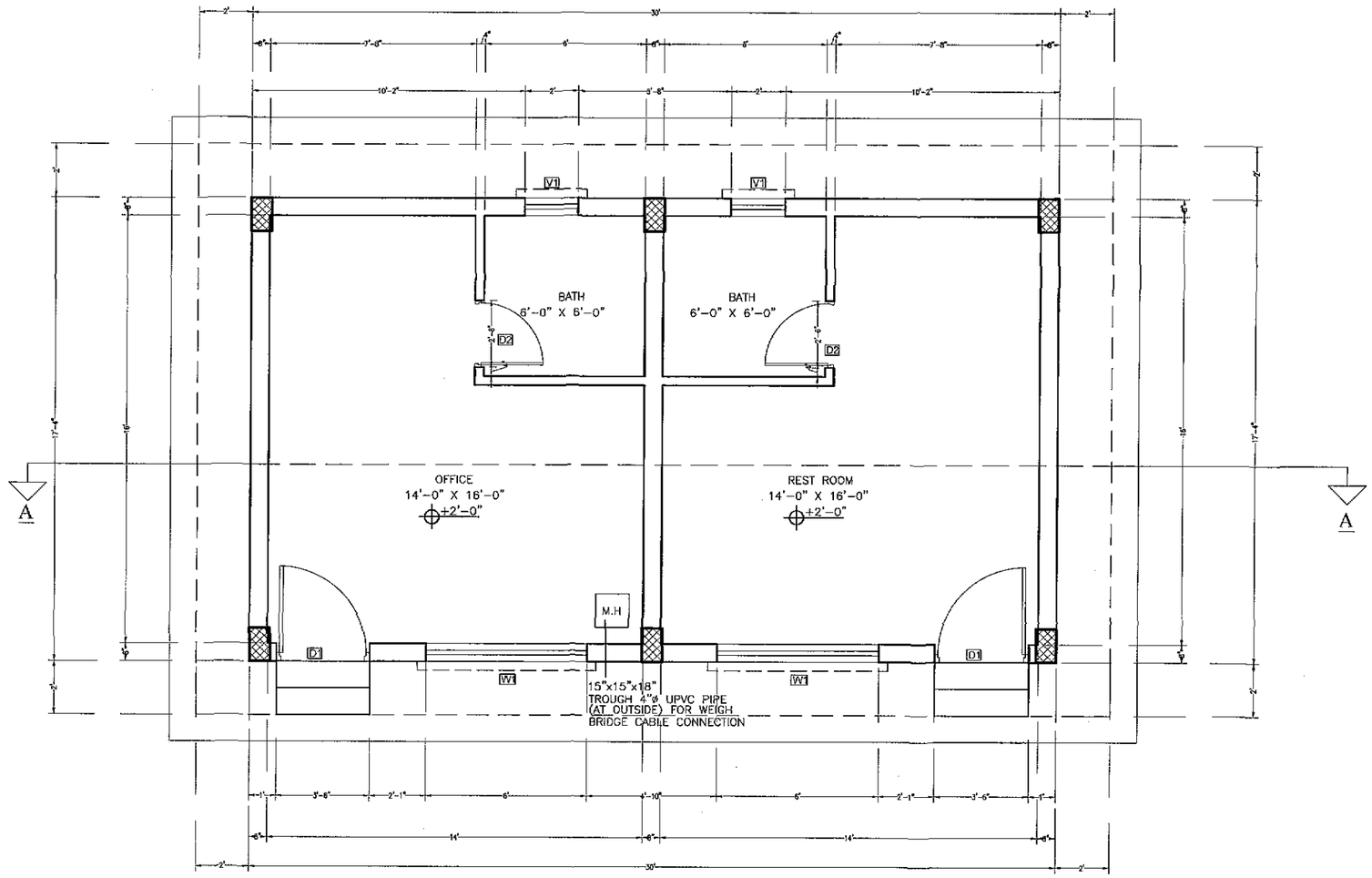
DRAWING TITLE:

FLOOR PLAN
WEIGH STATION

DESIGN BY: SYED ATIF SHAH	SHEET NO: 02 OF 08
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/WS/AR-02



NOTES

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LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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I-8 Markaz, Islamabad.
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IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

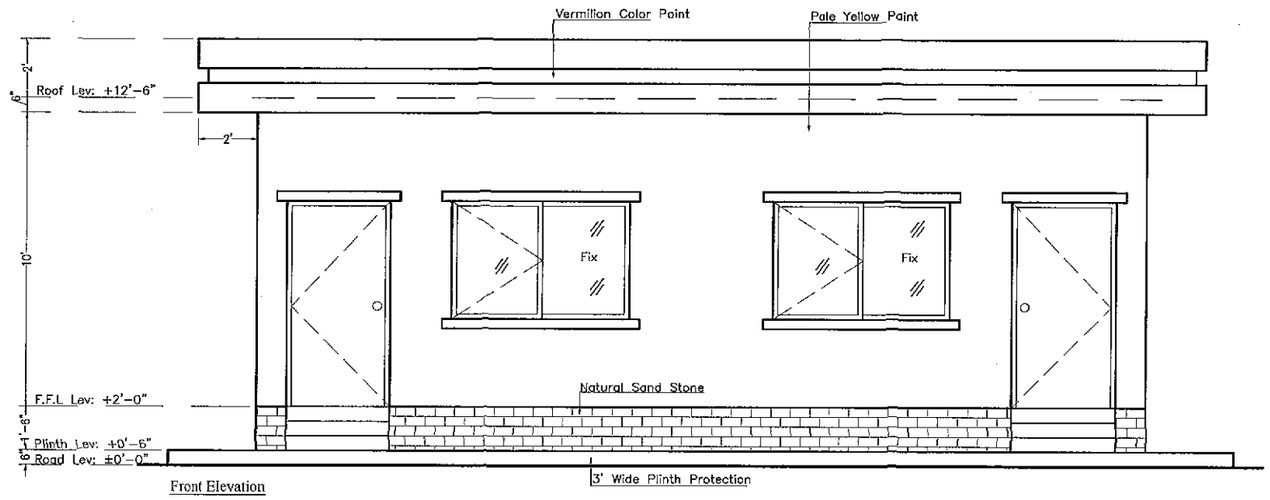
DRAWING TITLE:

WORKING PLAN
WEIGH STATION

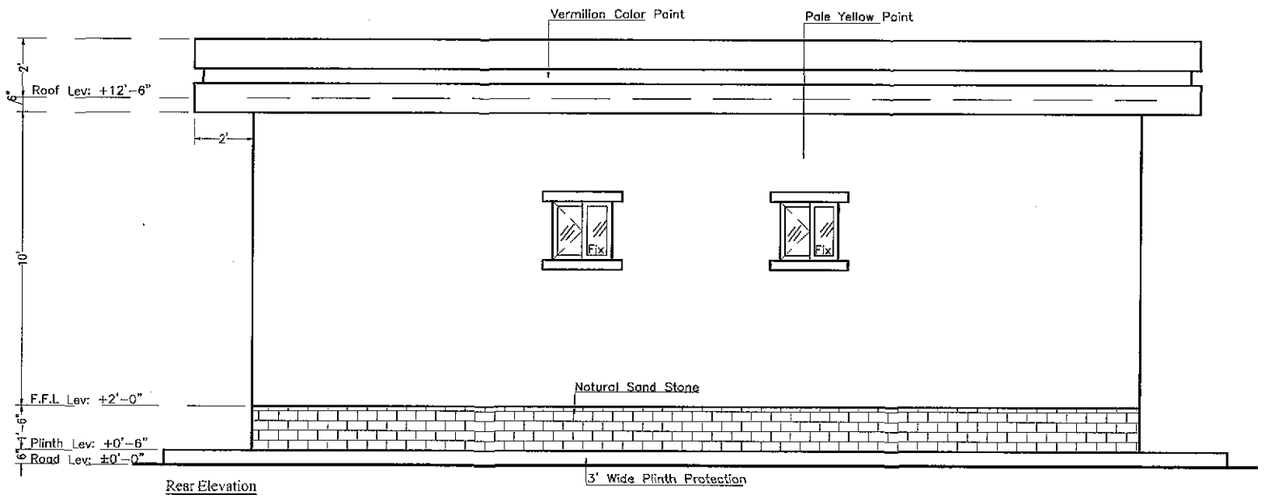
DESIGN BY: SYED ATIF SHAH	SHEET NO: 03 OF 08
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/WS/AR-03



Front Elevation



Rear Elevation

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
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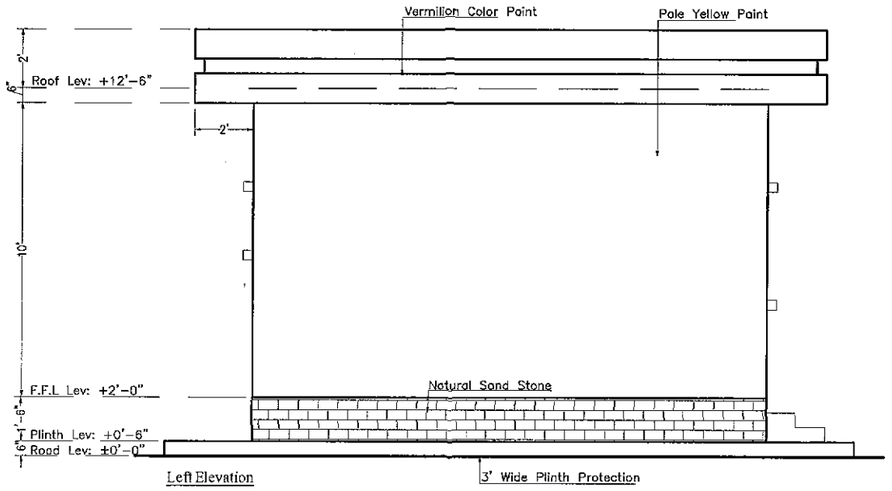
Ph. 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

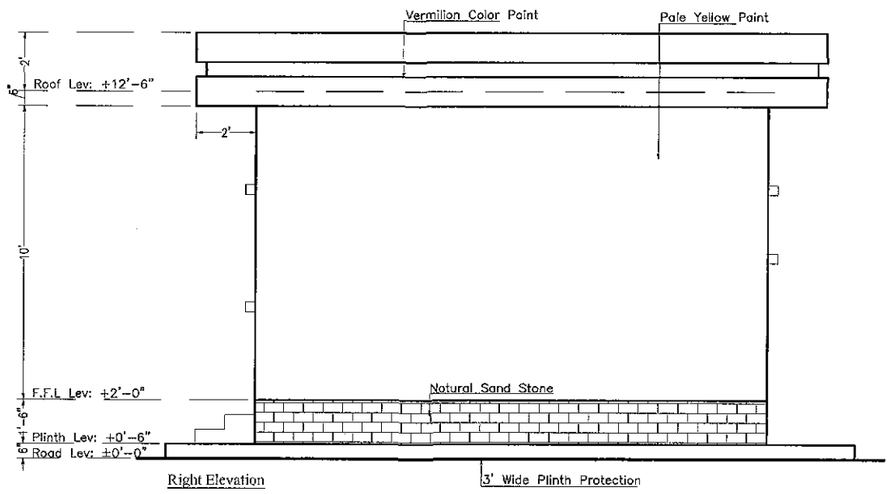
FRONT ELEVATION
REAR ELEVATION
WEIGH STATION

DESIGN BY: SYED ATIF SHAH	SHEET NO: 04 OF 08
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/WS/AR-04



Left Elevation



Right Elevation

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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3rd Floor, Time Square Plaza,
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IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

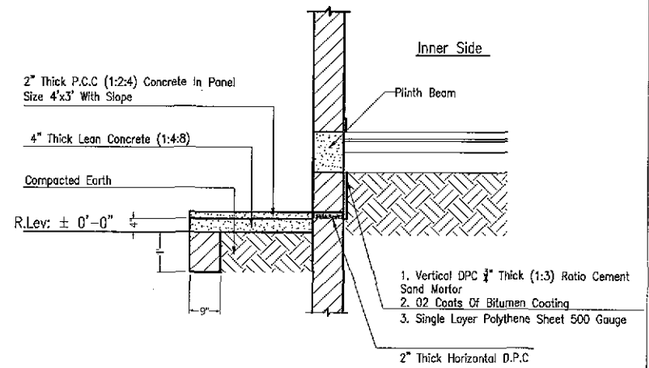
DRAWING TITLE:

RIGHT SIDE ELEVATION
LEFT SIDE ELEVATION
WEIGH STATION

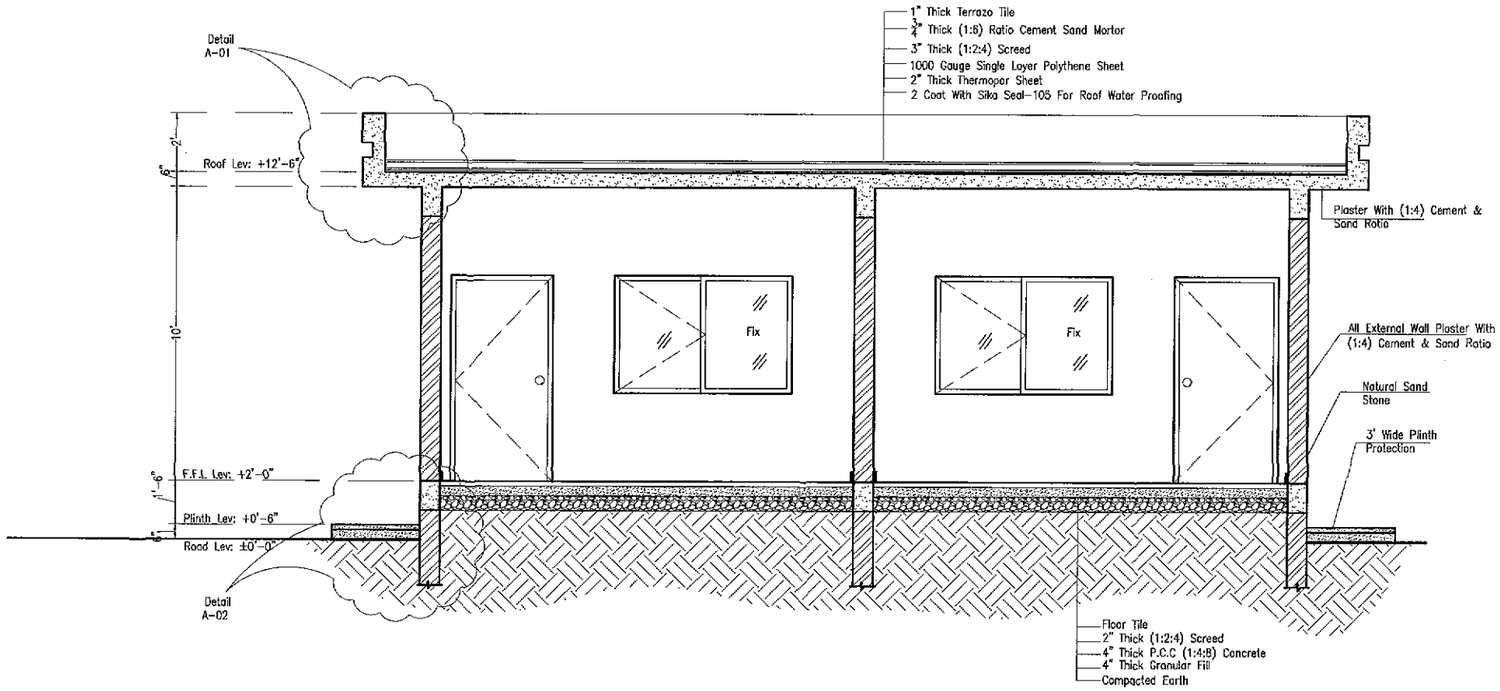
DESIGN BY: SYED ATIF SHAH	SHEET NO: 05 OF 08
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

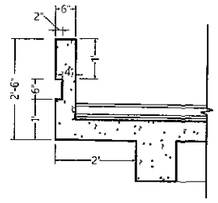
CAD FILE NAME:

ZI/KA/NK/WS/AR-05



DETAIL A-02
Scale - 1:22





DETAIL A-01
Scale - 1:22

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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I-8 Markaz, Islamabad
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IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER, CONSULTANT & ARCHITECTS.

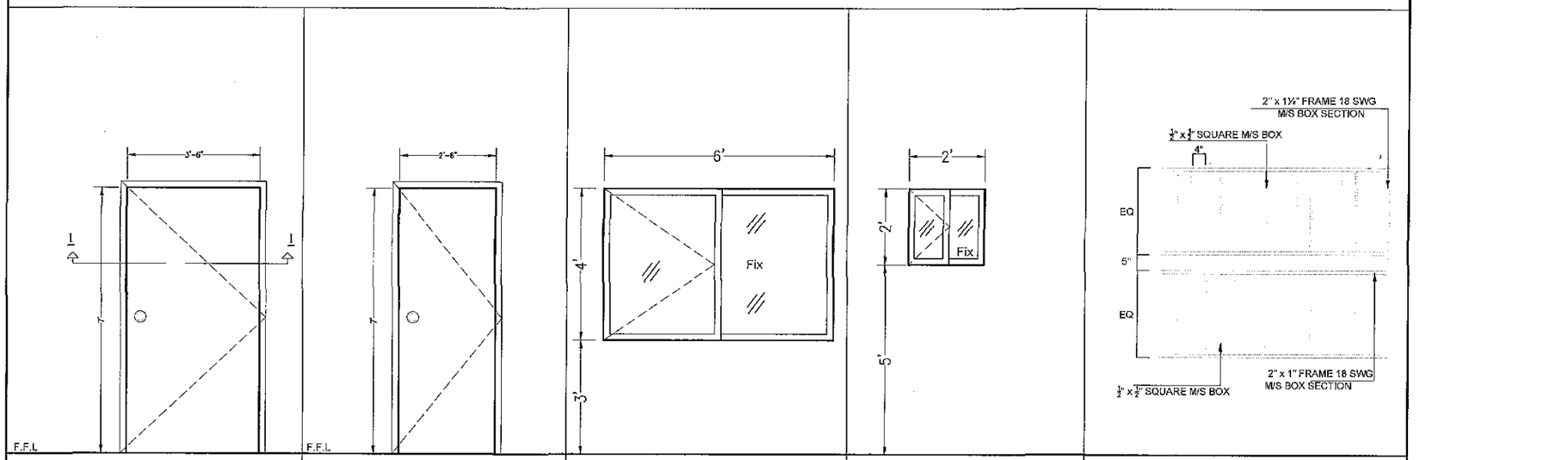
DRAWING TITLE:

SECTION A-A
DETAIL A-01
DETAIL A-02
WEIGH STATION

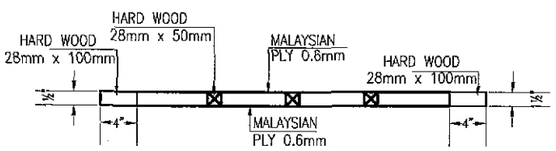
DESIGN BY: SYED ATIF SHAH	SHEET NO: 06 OF 08
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/WS/AR-06

DOORS, WINDOWS & VENTILATOR DETAIL



	D1	D2	W1	V1	M/S BOX PIPE WINDOW GRILL (18 SWG)
SIZE	3'-6" X 7'-0"	2'-6" X 7'-0"	6'-0" X4'-0"	2'-0" X2'-0"	
TYPE	SINGLE LEAF	SINGLE LEAF	DOUBLE LEAF / PARTIALLY FIXED	DOUBLE LEAF / PARTIALLY FIXED	
DESCRIPTION	MALAYSIAN PLY FLUSH DOOR	MALAYSIAN PLY FLUSH DOOR	ALUMINIUM GLASS WINDOW	ALUMINIUM GLASS VENTILATOR	

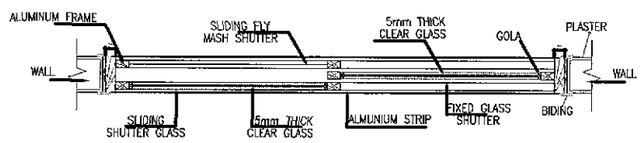


SECTION FOR SEMI SOLID SINGLE DOOR SIZE 3'-6"

SECTION 1-1
Scale - 1:8

SCHEDULE OF OPENING

Sr.No	DOORS	SIZE	SILL
1	D1	3'-6" x 7'-0"	
2	D2	2'-6" x 7'-0"	
Sr.No	WINDOWS	SIZE	SILL
1	W1	6'-0" x 4'-0"	+3'-0"
Sr.No	VENTILATOR	SIZE	SILL
1	V1	2'-0" x 2'-0"	+5'-0"



TYPICAL DETAIL OF SLIDING WINDOWS
Scale - 1:30

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

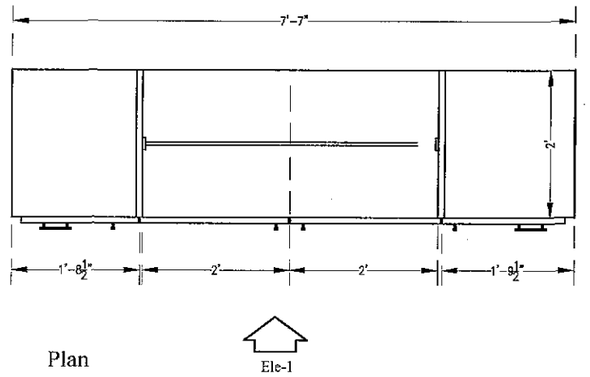
DRAWING TITLE:

DOOR AND WINDOWS SCHEDULE
WEIGH STATION

DESIGN BY: SYED ATIF SHAH	SHEET NO: 07 OF 08
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

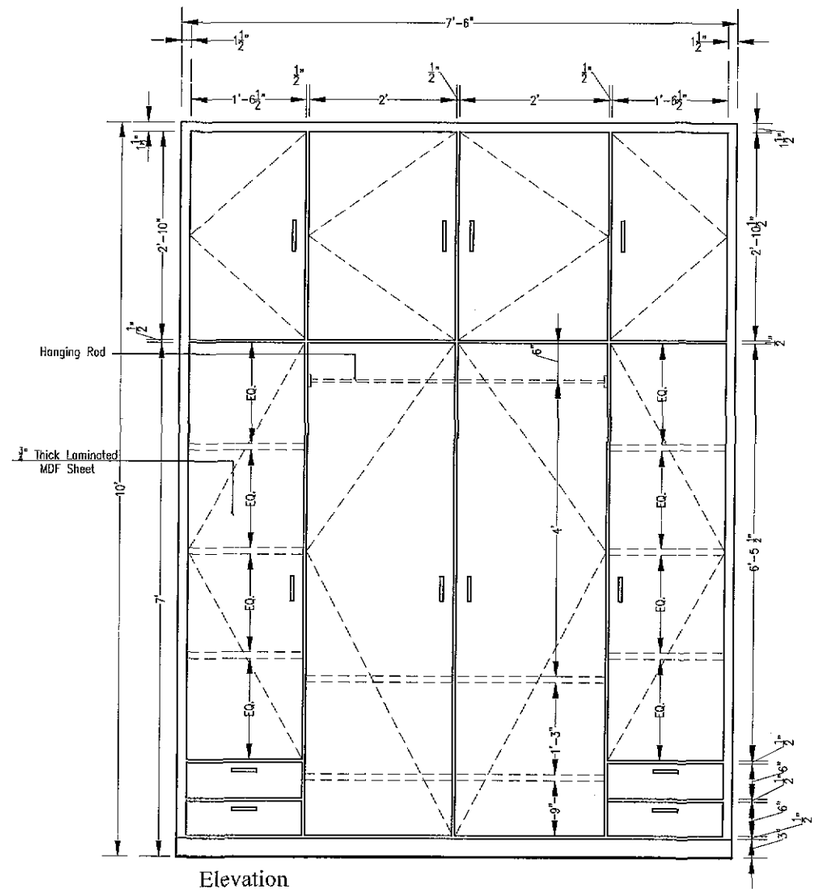
CAD FILE NAME:

ZI/KA/NK/WS/AR-07



Plan

Ele-1



Elevation

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

WARDROBE DETAILS
WEIGH STATION

DESIGN BY: SYED ATIF SHAH	SHEET NO: 08 OF 08
DRAWN BY: MUHAMMAD UMER	SCALE: N.T.S
CHECKED BY: MUHAMMAD NADEEM	DATE: NOV, 2020
APPROVED BY: AMIR MEHMOOD	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/WS/AR-08

NAUKANDI TO MASHKHEL

06 LANE TOLL PLAZA
STRUCTURAL DRAWINGS

LIST OF DRAWINGS

SERIAL NO.	DRAWING TITLE	DRAWING NO.
00	LIST OF DRAWINGS	ZI/KA/NK/06LTP/S-00
01	PEDESTAL LAYOUT PLAN AT FOOTING LEVEL -5'-0"	ZI/KA/NK/06LTP/S-01
02	PEDESTAL FOUNDATION LAYOUT PLAN AT FOOTING LEVEL -5'-0"	ZI/KA/NK/06LTP/S-02
03	BASE PLATE LAYOUT PLAN AT FOOTING LEVEL +1'-0"	ZI/KA/NK/06LTP/S-03
04	06 LANE TOLL PLAZA MAIN HSS TUBE LAYOUT AT BOTTOM LEVEL +24'-6"	ZI/KA/NK/06LTP/S-04
05	06 LANE TOLL PLAZA MAIN HSS TUBE LAYOUT AT TOP LEVEL +27'-6"	ZI/KA/NK/06LTP/S-05
06	06 LANE TOLL PLAZA MAIN HSS TUBE LAYOUT AT BOTTOM LEVEL +32'-6"	ZI/KA/NK/06LTP/S-06
07	06 LANE TOLL PLAZA MAIN HSS TUBE LAYOUT AT TOP LEVEL +35'-6"	ZI/KA/NK/06LTP/S-07
08	SIDE ELEVATION	ZI/KA/NK/06LTP/S-08
09	DETAIL AT - AA & SECTION PEDESTAL	ZI/KA/NK/06LTP/S-09
10	DETAIL AT - BB	ZI/KA/NK/06LTP/S-10

NOTES

- THE FOUNDATION HAS BEEN DESIGNED ON BEARING CAPACITY OF 0.75 TSF AS PER GEO-TECHNICAL INVESTIGATION REPORT.
- PROVIDE 24" ENGINEERED FILL COMPACTED UP TO 95% RELATIVE DENSITY IN LAYERS OF 9" AS PER GEO-TECHNICAL REPORT.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

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I-8 Markaz, Islamabad.
Ph: 051-4938213-4. FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

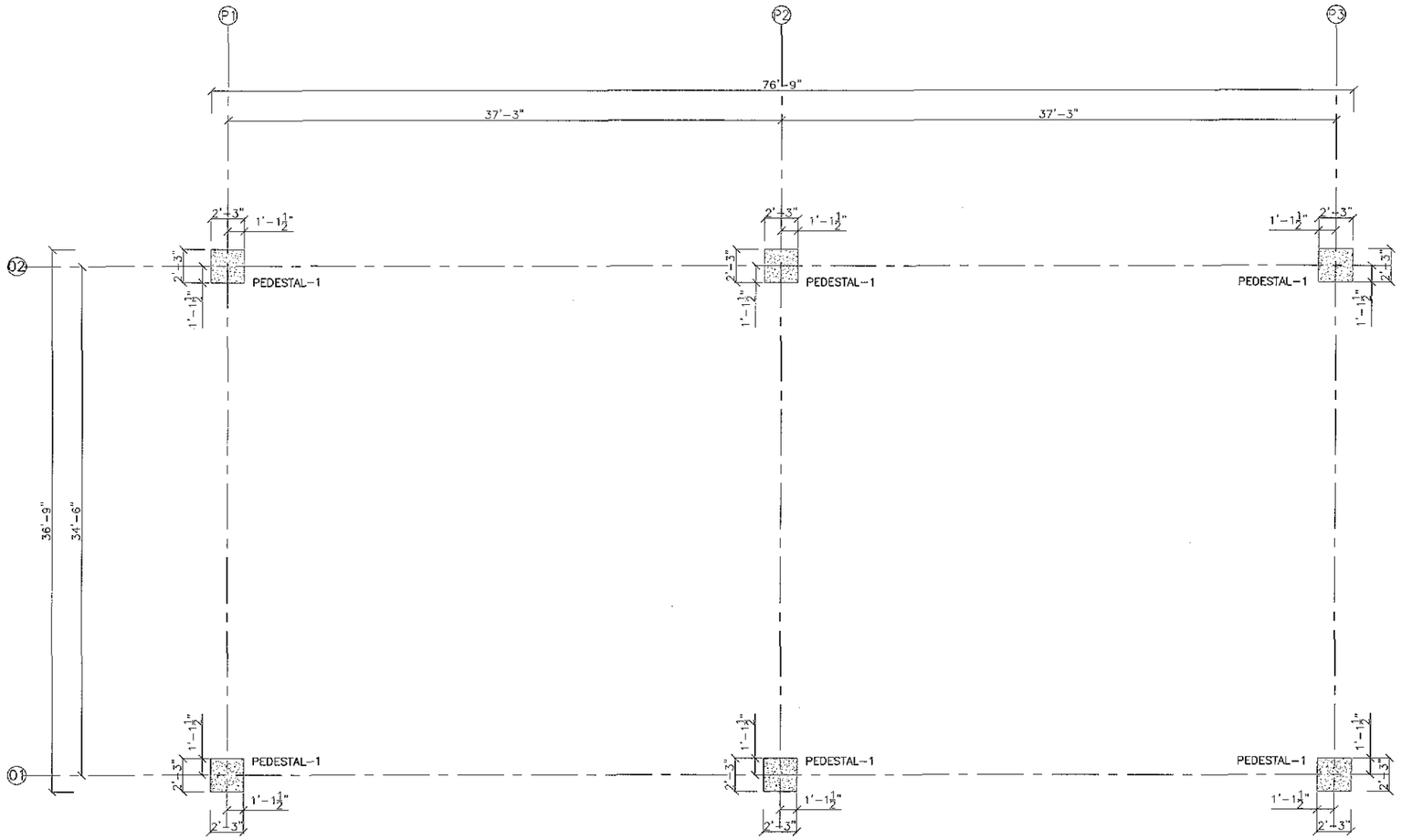
DRAWING TITLE:

06 LANE TOLL PLAZA
LIST OF DRAWING

DESIGN BY:	SHEET NO:
ARIF AHSAN	00 TO 10
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV, 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:

ZI/KA/NK/06LTP/S-00



PEDESTAL LAYOUT PLAN
AT FOOTING LEVEL -5'-0"

NOTES

- THE FOUNDATION HAS BEEN DESIGNED ON BEARING CAPACITY OF 0.75 TSF AS PER GEO-TECHNICAL INVESTIGATION REPORT.
- PROVIDE 24" ENGINEERED FILL COMPACTED UP TO 95% RELATIVE DENSITY IN LAYERS OF 9" AS PER GEO-TECHNICAL REPORT.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

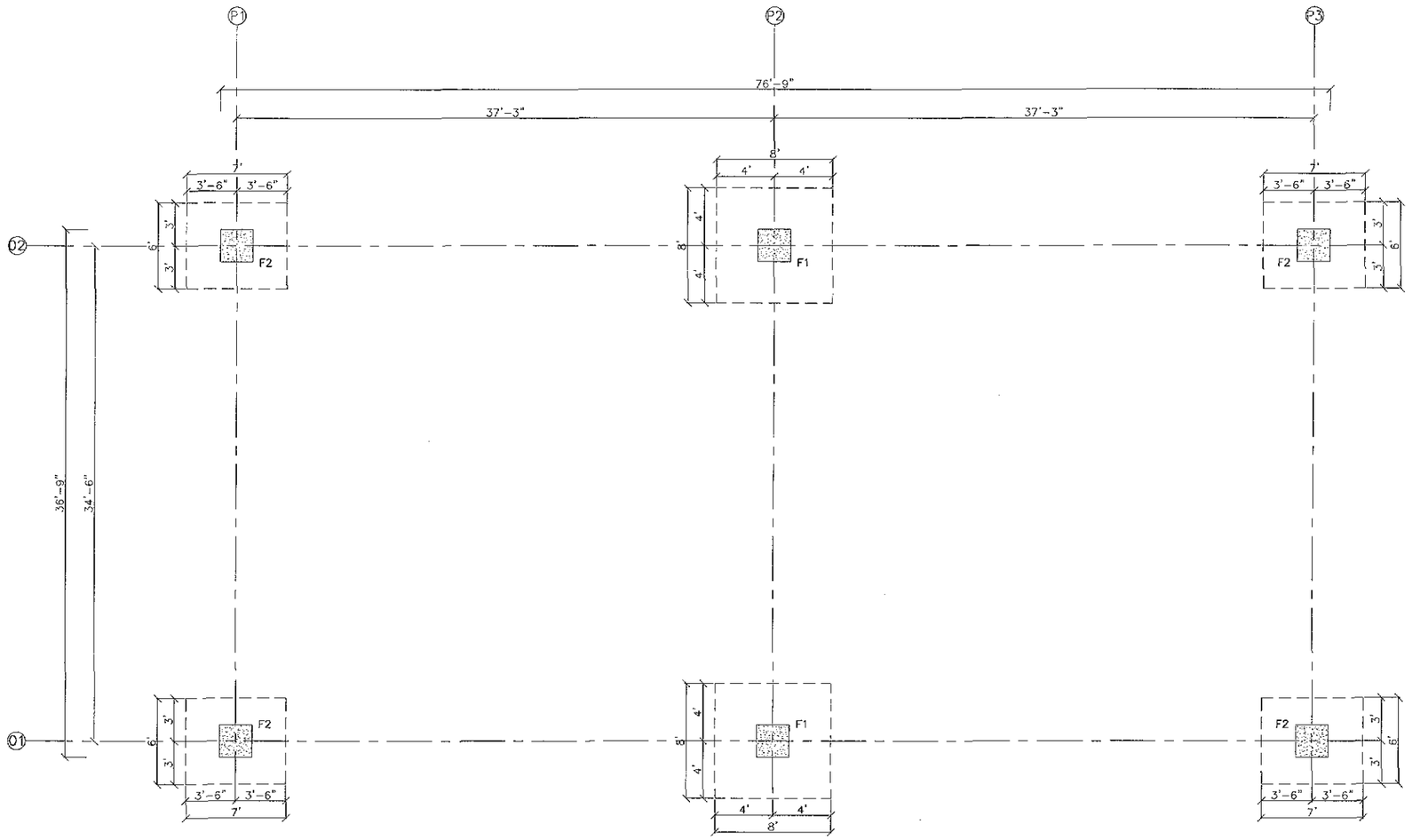
CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
06 LANE TOLL PLAZA
PEDESTAL LAYOUT PLAN
AT FOOTING LEVEL -5'-0"

DESIGN BY: ARIF AHSAN	SHEET NO: 01 TO 10
DRAWN BY: ARS	SCALE: N.T.S
CHECKED BY: KASHIF	DATE: NOV, 2020
APPROVED BY: INAM MINHAS	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/06LTP/S-01



PEDESTAL FOUNDATION LAYOUT PLAN
AT FOOTING LEVEL -5'-0"

NOTES

- THE FOUNDATION HAS BEEN DESIGNED ON BEARING CAPACITY OF 0.75 TSF AS PER GEO-TECHNICAL INVESTIGATION REPORT.
- PROVIDE 24" ENGINEERED FILL COMPACTED UP TO 95% RELATIVE DENSITY IN LAYERS OF 9" AS PER GEO-TECHNICAL REPORT.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL (PVT) LTD
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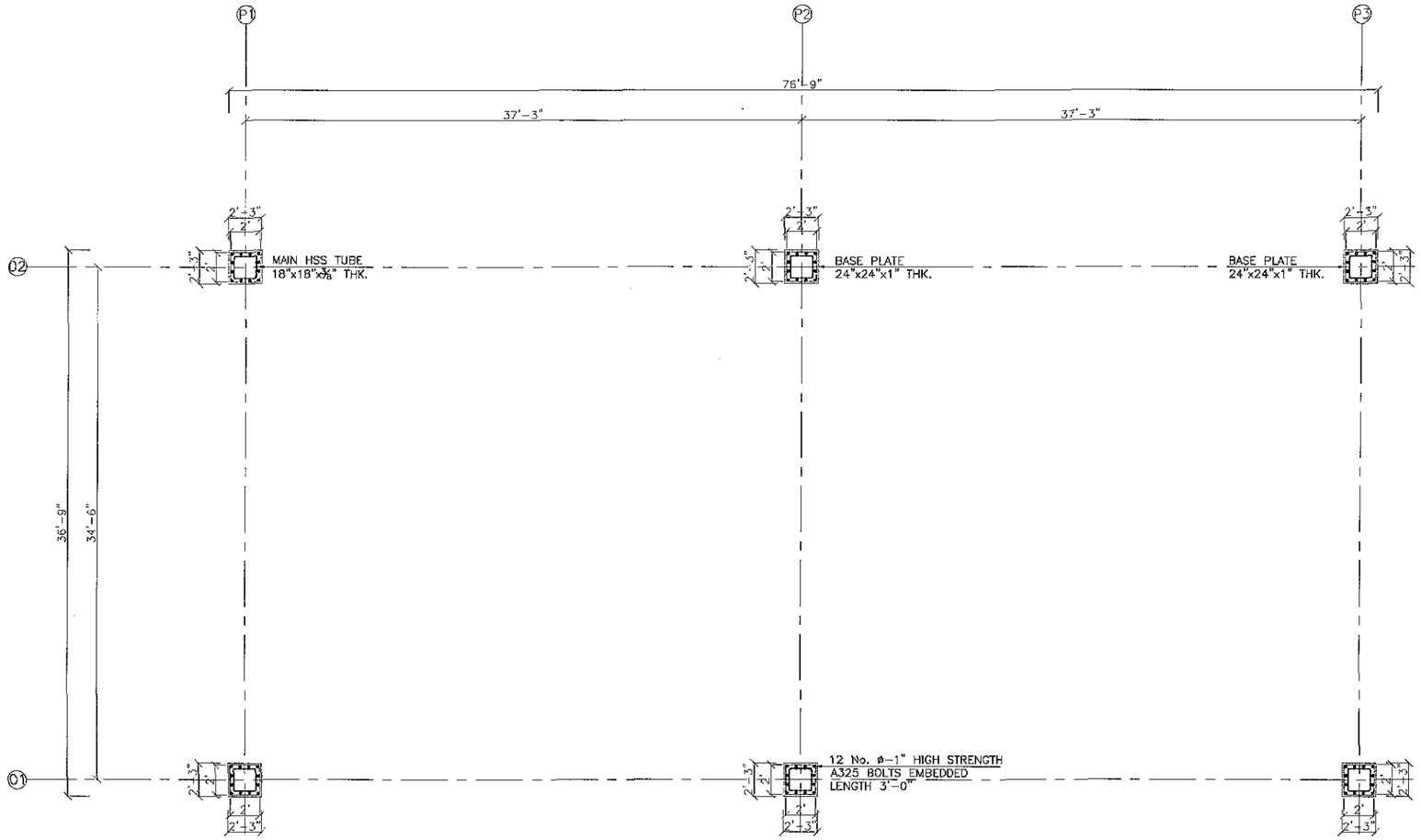
I-8 Markaz, Islamabad.
Ph: 051-4938213-4. FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
06 LANE TOLL PLAZA
PEDESTAL FOUNDATION PLAN
AT FOOTING LEVEL -5'-0"

DESIGN BY:	SHEET NO:
ARIF AHSAN	02 TO 10
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV, 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI/KA/NK/06LTP/S-02



BASE PLATE & BOLTS LAYOUT PLAN
AT LEVEL +1'-0"

NOTES

- THE FOUNDATION HAS BEEN DESIGNED ON BEARING CAPACITY OF 0.75 TSF AS PER GEO-TECHNICAL INVESTIGATION REPORT.
- PROVIDE 24" ENGINEERED FILL COMPACTED UP TO 95% RELATIVE DENSITY IN LAYERS OF 9" AS PER GEO-TECHNICAL REPORT.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEERUK INTERNATIONAL.(PVT) LTD
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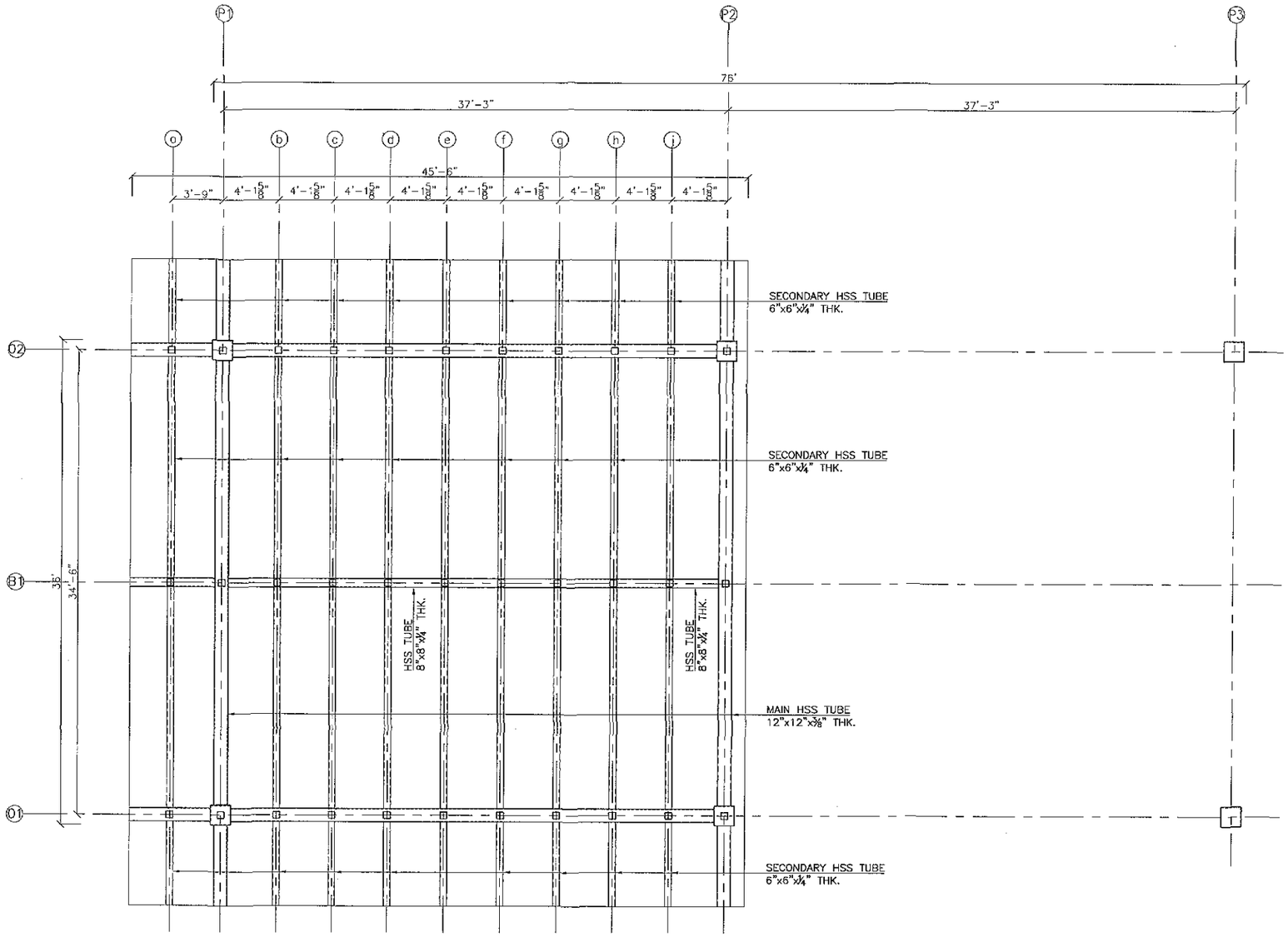
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
06 LANE TOLL PLAZA
BASE PLATE LAYOUT PLAN
AT LEVEL +1'-0"

DESIGN BY:	SHEET NO:
ARIF AHSAN	03 TO 10
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV, 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI/KA/NK/06LTP/S-03



MAIN TUBE LAYOUT PLAN
AT BOTTOM LEVEL +24'-6"

NOTES

- THE FOUNDATION HAS BEEN DESIGNED ON BEARING CAPACITY OF 0.75 TSF AS PER GEO-TECHNICAL INVESTIGATION REPORT.
- PROVIDE 24" ENGINEERED FILL COMPACTED UP TO 95% RELATIVE DENSITY IN LAYERS OF 9" AS PER GEO-TECHNICAL REPORT.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

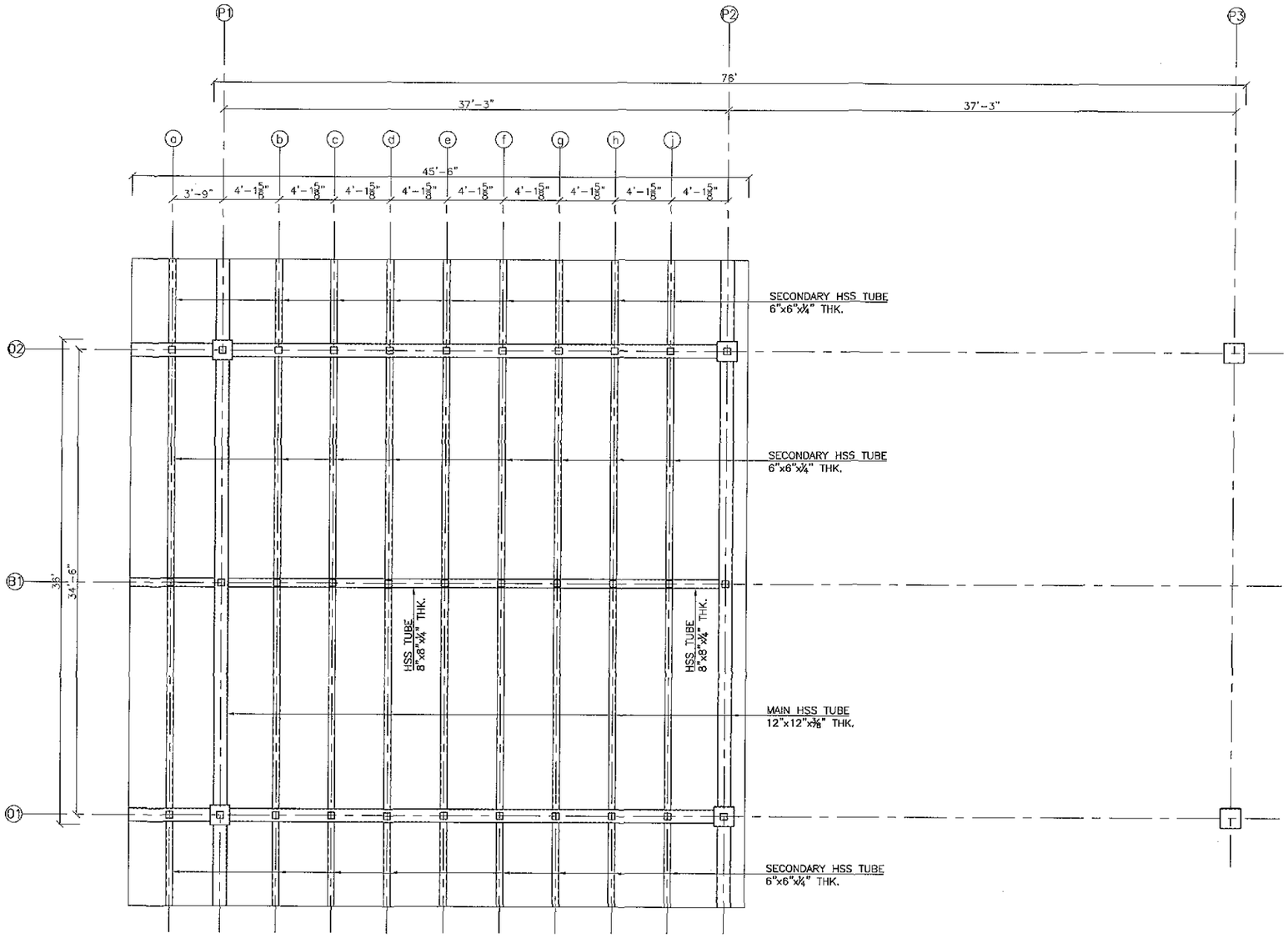
CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
06 LANE TOLL PLAZA
MAIN HSS TUBE LAYOUT
AT BOTTOM LEVEL +24'-6"

DESIGN BY:	SHEET NO:
ARIF AHSAN	04 TO 10
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV, 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI/KA/NK/06LTP/S-04



MAIN TUBE LAYOUT PLAN
AT TOP LEVEL +27'-6"

NOTES

- THE FOUNDATION HAS BEEN DESIGNED ON BEARING CAPACITY OF 0.75 TSF AS PER GEO-TECHNICAL INVESTIGATION REPORT.
- PROVIDE 24" ENGINEERED FILL COMPACTED UP TO 95% RELATIVE DENSITY IN LAYERS OF 9" AS PER GEO-TECHNICAL REPORT.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL (PVT) LTD
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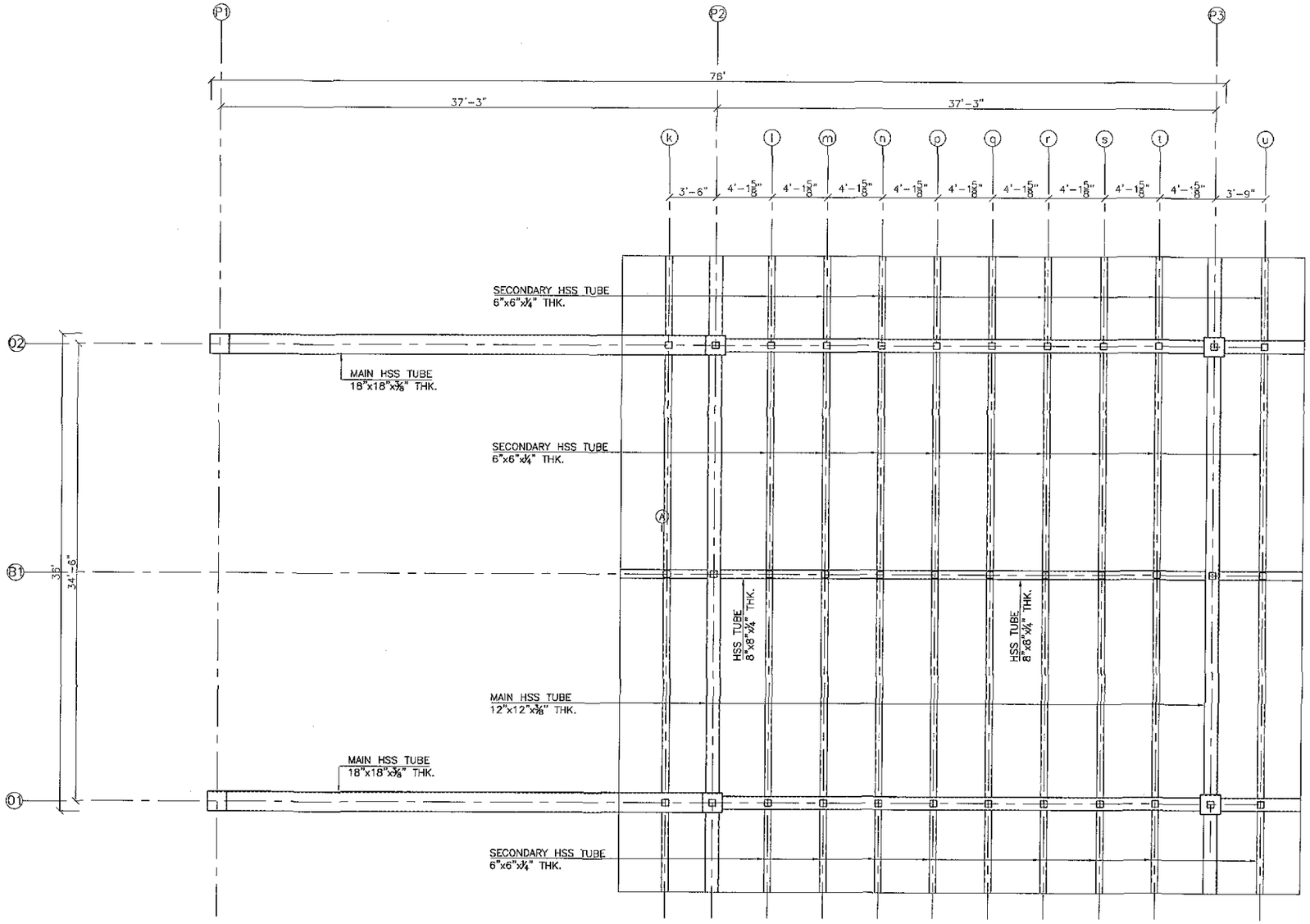
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
06 LANE TOLL PLAZA
MAIN HSS TUBE LAYOUT
AT BOTTOM LEVEL +27'-6"

DESIGN BY:	SHEET NO:
ARIF AHSAN	05 TO 10
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV, 2020
APPROVED BY:	*REVISION:*
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI/KA/NK/06LTP/S-05



MAIN TUBE LAYOUT PLAN
AT BOTTOM LEVEL +32'-6"

NOTES

- THE FOUNDATION HAS BEEN DESIGNED ON BEARING CAPACITY OF 0.75 TSF AS PER GEO-TECHNICAL INVESTIGATION REPORT.
- PROVIDE 24" ENGINEERED FILL COMPACTED UP TO 95% RELATIVE DENSITY IN LAYERS OF 9" AS PER GEO-TECHNICAL REPORT.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

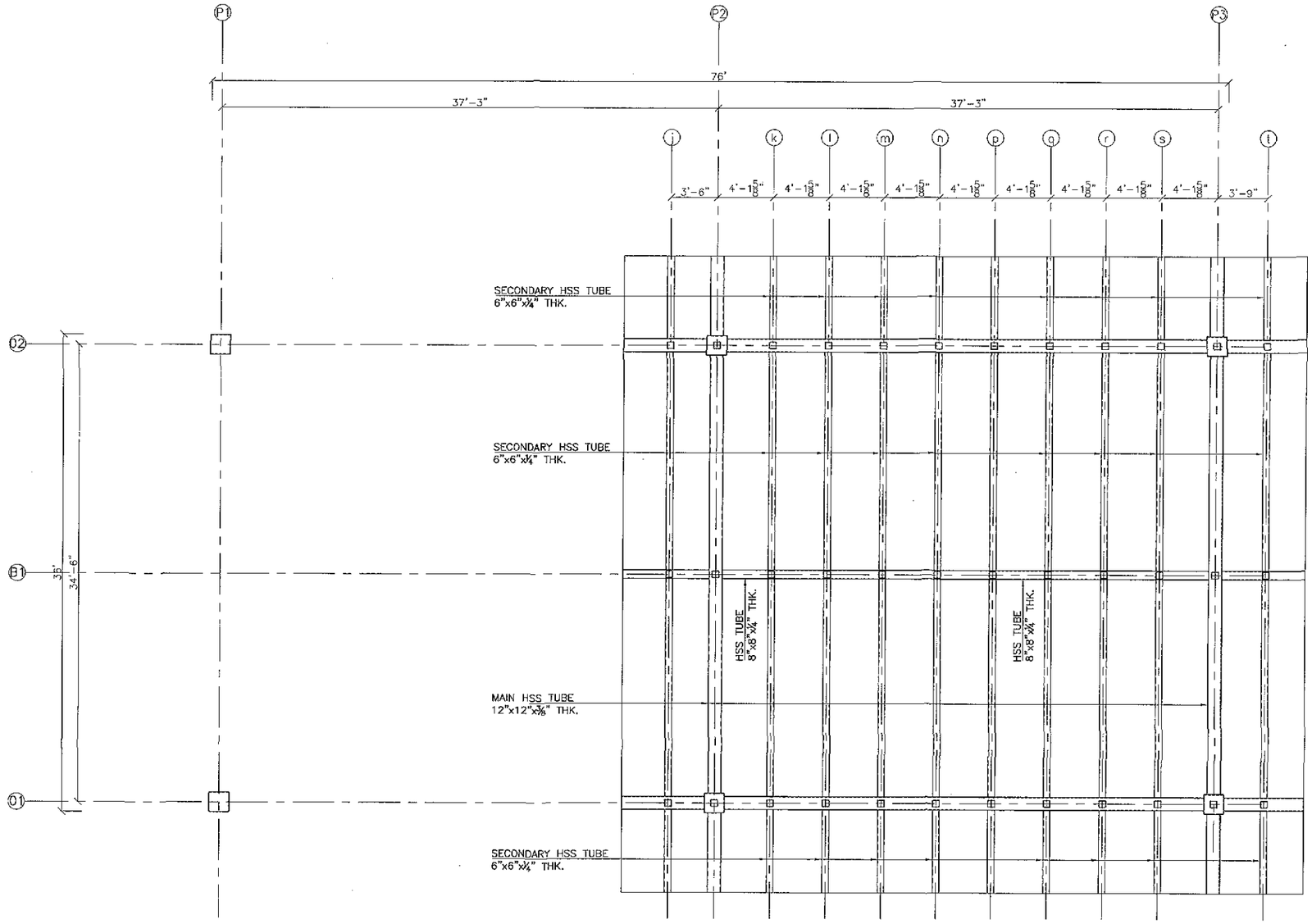
CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
06 LANE TOLL PLAZA
MAIN HSS TUBE LAYOUT
AT BOTTOM LEVEL +32'-6"

DESIGN BY: ARIF AHSAN	SHEET NO: 06 TO 10
DRAWN BY: ARS	SCALE: N.T.S
CHECKED BY: KASHIF	DATE: NOV, 2020
APPROVED BY: INAM MINHAS	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/06LTP/S-06



MAIN TUBE LAYOUT PLAN
AT TOP LEVEL +35'-6"

NOTES
- THE FOUNDATION HAS BEEN DESIGNED ON BEARING CAPACITY OF 0.75 TSF AS PER GEO-TECHNICAL INVESTIGATION REPORT.
- PROVIDE 24" ENGINEERED FILL COMPACTED UP TO 95% RELATIVE DENSITY IN LAYERS OF 9" AS PER GEO-TECHNICAL REPORT.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

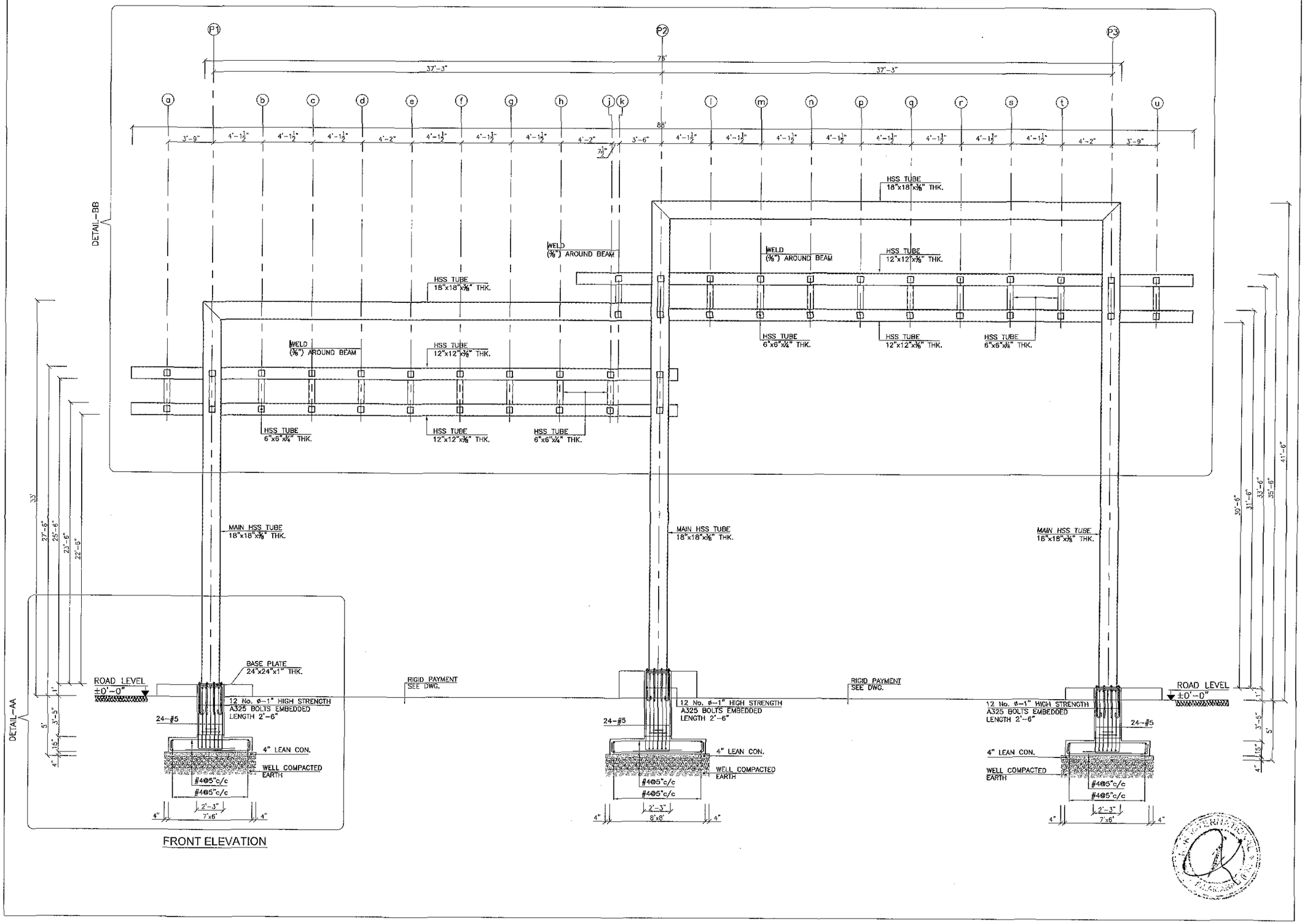
CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
ZEFRUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
06 LANE TOLL PLAZA
MAIN HSS TUBE LAYOUT
AT TOP LEVEL +35'-6"

DESIGN BY:	SHEET NO:
ARIF AHSAN	07 TO 10
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV, 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI/KA/NK/06LTP/S-07



FRONT ELEVATION

NOTES

- THE FOUNDATION HAS BEEN DESIGNED ON BEARING CAPACITY OF 0.75 TSF AS PER GEO-TECHNICAL INVESTIGATION REPORT.
- PROVIDE 24" ENGINEERED FILL COMPACTED UP TO 95% RELATIVE DENSITY IN LAYERS OF 9" AS PER GEO-TECHNICAL REPORT.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

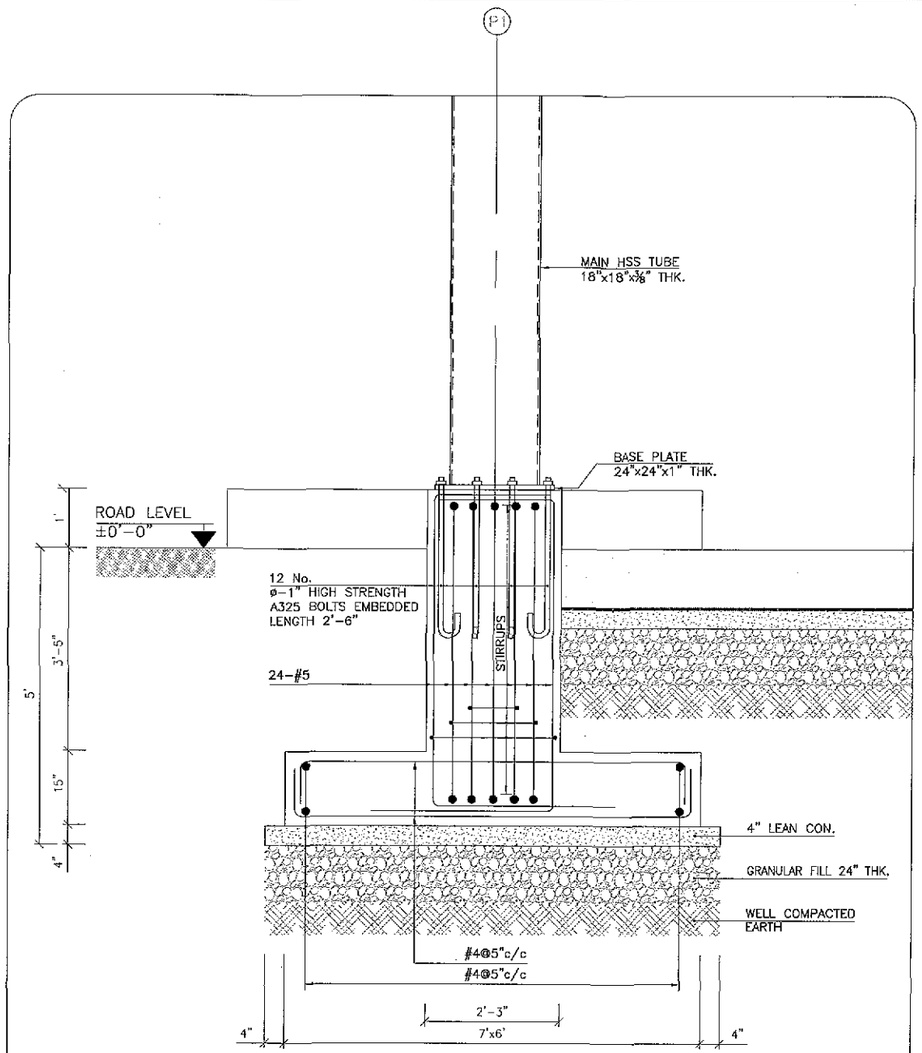
CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

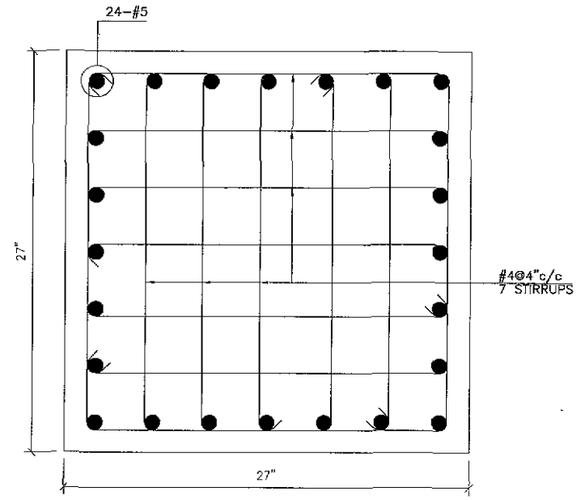
DRAWING TITLE:
06 LANE TOLL PLAZA
SIDE ELEVATION

DESIGN BY: ARIF AHSAN	SHEET NO: 08 TO 10
DRAWN BY: ARS	SCALE: N.T.S
CHECKED BY: KASHIF	DATE: NOV, 2020
APPROVED BY: INAM MINHAS	REVISION: REV. 00

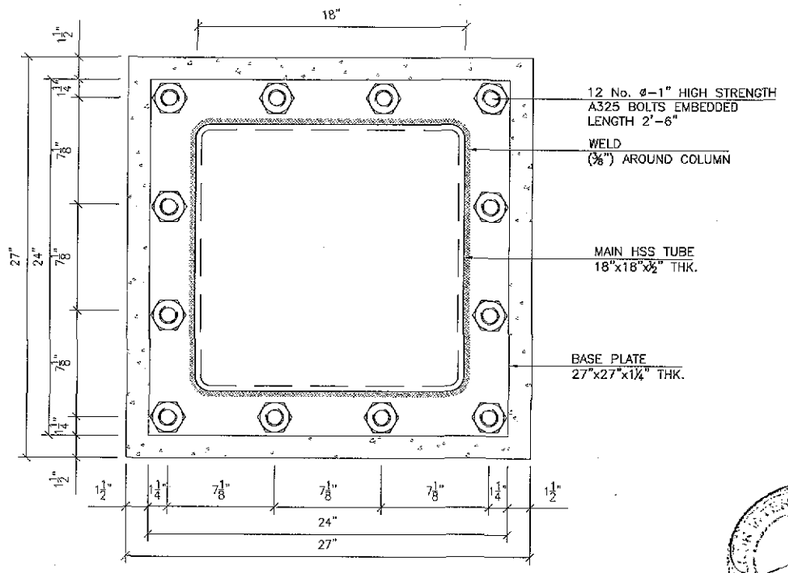
CAD FILE NAME:
ZI/KA/NK/06LTP/S-08



DETAIL-AA



P-1
PEDESTAL 27"x27"



BASE PLATE LAYOUT PLAN

NOTES

- THE FOUNDATION HAS BEEN DESIGNED ON BEARING CAPACITY OF 0.75 TSF AS PER GEO-TECHNICAL INVESTIGATION REPORT.
- PROVIDE 24" ENGINEERED FILL COMPACTED UP TO 95% RELATIVE DENSITY IN LAYERS OF 9" AS PER GEO-TECHNICAL REPORT.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

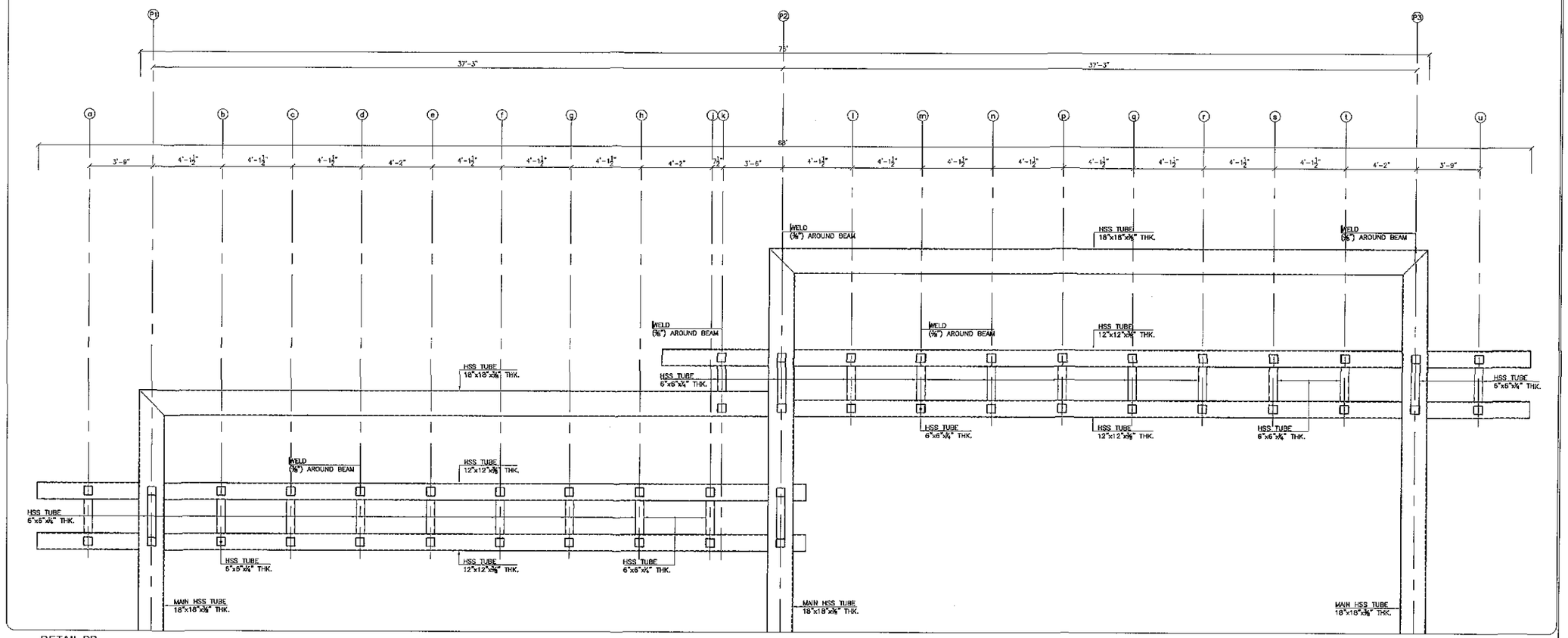
CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Market, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

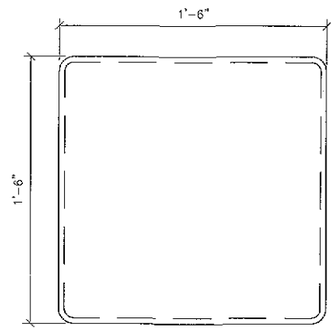
DRAWING TITLE:
06 LANE TOLL PLAZA
DETAIL AA &
PEDESTAL SECTION

DESIGN BY:	SHEET NO:
ARIF AHSAN	09 TO 10
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV, 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

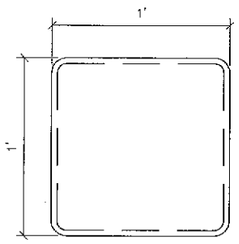
CAD FILE NAME:
ZI/KA/NK/06LTP/S-09



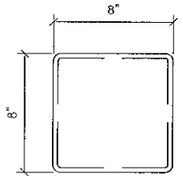
DETAIL-BB



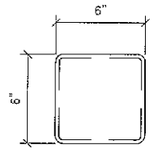
MAIN HSS TUBE
18"x18"x⅜"



CON. HSS TUBE
12"x12"x⅜"



CON. HSS TUBE
6"x6"x¼"



CON. HSS TUBE
6"x6"x¼"

NOTE:

1. ALL STEEL SHALL BE ASTM-A36 GALVANIZED
2. ALL BOLTS SHALL BE ASTM-A325 HIGH STRENGTH ANCHOR BOLTS.
3. ALL WELDING SHALL BE DONE WITH E70 XX ELECTRODE.
4. ALL WELDING SHALL BE DONE IN ACCORDANCE OF AWS.
5. ALL BASE PLATES SHALL BE 1 INCH THICK OTHERWISE MENTIONED.
6. WIND SPEED HAS BEEN TAKEN AS 100 MPH/CAT-B
7. SEISMIC ZONE HAS BEEN TAKEN AS 2B.
8. FOOTING Fc' = 3000 PSI
9. PEDESTAL Fc' = 3000 PSI
10. Fy' = 60000 PSI FOR REINFORCEMENT BARS
11. BEARING CAPACITY = 0.75TSF

NOTES

- THE FOUNDATION HAS BEEN DESIGNED ON BEARING CAPACITY OF 0.75 TSF AS PER GEO-TECHNICAL INVESTIGATION REPORT.
- PROVIDE 24" ENGINEERED FILL COMPACTED UP TO 95% RELATIVE DENSITY IN LAYERS OF 9" AS PER GEO-TECHNICAL REPORT.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
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CLIENT:
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MINISTRY OF COMMUNICATIONS
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ISLAMABAD

CONSULTANT:
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Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
06 LANE TOLL PLAZA
DETAIL-BB

DESIGN BY:	SHEET NO:
ARIF AHSAN	10 TO 10
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV, 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI/KA/NK/06LTP/S-10

NAUKANDI TO MASHKHEL

STAFF BUILDING
STRUCTURAL DRAWINGS

LIST OF DRAWINGS

SERIAL NO.	DRAWING TITLE	DRAWING NO.
00	LIST OF DRAWING	ZI/KA/NK/TPSB/S-00
01	GENERAL NOTES	ZI/KA/NK/TPSB/S-01
02	COLUMNS LAYOUT PLAN AT N.S. LEVEL -3'-6"	ZI/KA/NK/TPSB/S-02
03	COLUMNS FOUNDATION PLAN AT N.S. LEVEL -3'-6"	ZI/KA/NK/TPSB/S-03
04	COLUMNS FOOTING SECTION AT N.S. LEVEL -3'-6"	ZI/KA/NK/TPSB/S-04
05	COLUMNS REINFORCEMENT SCHEDULE	ZI/KA/NK/TPSB/S-05
06	PLINTH BEAM FRAMING PLAN AT GROUND FINISH FLOOR LEVEL +2'-0"	ZI/KA/NK/TPSB/S-06
07	PLINTH BEAM REINFORCEMENT SECTION AT GROUND INISH FLOOR LEVEL +2'-0"	ZI/KA/NK/TPSB/S-07
08	BEAM FRAMING PLAN AT ROOF SLAB LEVEL +13'-6"	ZI/KA/NK/TPSB/S-08
09	BEAM REINFORCEMENT SECTION AT ROOF SLAB LEVEL +13'-6"	ZI/KA/NK/TPSB/S-09
10	SLAB REINFORCEMENT PLAN AT ROOF SLAB LEVEL +13'-6"	ZI/KA/NK/TPSB/S-10
11	TYPICAL SECTION	ZI/KA/NK/TPSB/S-11

NOTES

- FOUNDATION IS DESIGNED ON BEARING CAPACITY OF 0.75 TSF WHICH HAS BEEN ASSUMED AND SHOULD BE VERIFIED ON SITE PRIOR TO EXECUTION OF WORK.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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IN ASSOCIATION WITH :

KASHI ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

STAFF BUILDING
LIST OF DRAWING

DESIGN BY:	SHEET NO:
ARIF AHSAN	00 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV, 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:

ZI/KA/NK/TPSB/S-00

STRUCTURAL NOTES

GENERAL

1. READ THESE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL RELEVANT DRAWINGS.
2. ALL LEVELS AND DIMENSIONS ARE IN METERS AND MILLIMETER UNLESS OTHERWISE NOTED.
3. DO NOT SCALE THE DRAWINGS, DIMENSIONS GIVEN ON THE DRAWING SHALL GOVERN.
4. ANY CHANGE THAT MAY AFFECT THE STRUCTURE SHOULD NOT BE MADE PRIOR TO THE APPROVAL OF STRUCTURAL DESIGN ENGINEER.

DESIGN CODES & BUILDING ZONE

1. THE BUILDING HAS BEEN DESIGNED ON THE BASIS OF THE PARAMETERS LAID DOWN IN THE DESIGN CODES ACI-318 AND UBC-97.
2. THE STRUCTURE IS DESIGNED FOR SEISMIC (ZONE – 2B) AS PER UBC-97.

FOUNDATION

1. THE DESIGN OF FOUNDATION IS BASED ON THE PARAMETERS LAID DOWN IN THE GEOTECHNICAL INVESTIGATION REPORT.
2. FOUNDATION IS DESIGNED ON BEARING CAPACITY OF 0.75 TSF. WHICH HAS BEEN ASSUMED AND SHOULD BE VERIFIED ON SITE PRIOR TO EXECUTION OF WORK.
3. FOUNDATION HAS BEEN DESIGNED FOR GROUND FLOOR AS SHOWN IN PRESENT ARCHITECTURE.ANY FURTHER CONSTRUCTION ABOVE FLOOR IS STRICTLY NOT ALLOWED.
4. ALL LOOSE/SOFT SOIL NOTICED DURING EXCAVATION SHALL BE REPLACED WITH ENGINEERED GRANULAR FILL COMPACTED TO 95% OF MAXIMUM DRY DENSITY.
5. THE FILLING SHALL BE DONE IN TWO LAYERS, EACH OF MAXIMUM 6" THICKNESS AND EACH LAYER SHALL BE COMPACTED UPTO 95% RELATIVE DENSITY.
6. PROVIDE TERMITE CONTROL TREATMENT IN THIS BUILDING.

REINFORCED CONCRETE WORKS

1. 28 – DAY COMPRESSIVE STRENGTH OF CONCRETE (CYLINDRICAL) SHOULD BE.
(a) FOR COL. = 3000 PSI.
(b) FOR FOOTING, BEAM & SLAB = 3000 PSI.

2. DEVELOPMENT LENGTH SHOULD BE FOLLOWED AS:–

NO.	BAR DIA (INCHES)	Ld (INCHES)
↓	↓	↓
1	3/8"	21"
2	1/2"	30"
3	5/8"	36"
4	3/4"	42"
5	1"	55"

REINFORCING STEEL WORKS

1. IN BEAMS, COLUMNS, FOOTINGS, WALLS AND WATER RETAINING STRUCTURES ALL REINFORCEMENT SHALL BE HIGH YIELD HOT ROLLED BILLET DEFORMED STEEL BARS CONFORMING TO ASTM A-615 GRADE 60 WITH SPECIFIED YIELD STRENGTH OF NOT LESS THEN 60,000 PSI.
2. IN SLAB ALL REINFORCEMENT SHALL BE DEFORMED STEEL BARS CONFORMING TO ASTM A-615 GRADE 60 WITH SPECIFIED YIELD STRENGTH OF NOT LESS THEN 60,000 PSI.
3. ALL DETAILING SHALL BE DONE AS PER ACI-315 AND ACI-318.
4. CONCRETE COVERS.

CONCRETE COVERS USED IN THE DESIGN ARE AS FOLLOWS:

CONCRETE CLEAR COVER SCHEDULE (INCHES)			
	CLEAR COVER TO PRIMARY SCHEDULE		
ELEMENT	SURFACE IN CONTACT WITH GROUND	ABOVE GROUND INTERIOR ENVIRONMENT	ABOVE GROUND EXTERIOR ENVIRONMENT
FOUNDATION	3"	1½"	1½"
COLUMNS / BEAM	2"	1½"	1½"
GRADE SLAB	2"	1½"	1½"
SUSPENDED SLAB	–	3/4"	1½"
EQUIPMENT	–	1½"	1½"
WATER TANK	3"	1½"	1½"

* NOTE: CLEAR COVER SHALL NOT BE LESS THAN ONE BAR DIAMETER.

5. LAP LENGTH SHOULD BE FOLLOWED AS:–

(a) 1" ø = 55" (b) 3/4" ø = 42" (c) 5/8" ø = 36" (d) 1/2" ø = 30" (e) 3/8" ø = 21"

6. ALL REINF. STEEL SHALL BE ACCURATELY LOCATED IN THE FORMS AND HELD FIRMLY IN PLACE BEFORE & DURING THE PLACING OF CONCRETE BY MEANS OF WIRE AND SUPPORTS ADEQUATE TO PREVENT DISPLACEMENT DURING THE COURSE OF CONSTRUCTION.
7. ALL LAPS IN BEAMS SHOULD BE PROVIDED AT MIDSPAN. FOR TOP BARS EXCEPT FOR FOOTING/SLAB ON GRADE.
8. ALL LAPS IN BEAMS SHOULD BE PROVIDED AT SUPPORT. FOR BOTTOM BARS EXCEPT FOR FOOTING/SLAB ON GRADE.
9. ALL LAPS IN FOOTING / SLAB ON GRADE SHOULD BE PROVIDED AT MID SPAN. (BOTTOM BARS)
10. ALL LAPS IN FOOTING / SLAB ON GRADE SHOULD BE PROVIDED AT SUPPORT. (TOP BARS)
11. FOR DUCT DIMENSION REFER TO ARCH / MEP DWGS. ALL LAPS IN SLABS SHOULD BE PROVIDED AT MIDSPAN. (TOP BARS).
12. ALL LAPS IN SLABS SHOULD BE PROVIDED AT SUPPORT. (BOTTOM BARS).
13. DISTRIBUTION REINFORCEMENT FOR SLABS

NO.	SLAB THICKNESS (Inches)	REINFORCEMENT
↓	↓	↓
1	6"	#3@9"c/c
2	7"	#3@9"c/c
3	8"	#3@9"c/c
4	10"	#3@7"c/c
5	12"	#3@9"c/c

CONCRETE CONSTRUCTION

1. AVOID STACKING OF CONSTRUCTION MATERIALS, BRICKS, BLOCKS etc. ON SLAB PANELS DURING CONSTRUCTION.
2. BEFORE CASTING OF ANY STRUCTURAL MEMBER, IT SHALL BE ENSURED THAT ALL EMBEDDED ITEMS OR OPENINGS FOR ELECTRICAL, PLUMBING, STRUCTURAL STEEL AND OTHER WORKS ARE PROPERLY LOCATED IN PLACE.

ABBREVIATION

- C = COLUMN
- F = FOOTING
- PB = PLINTH BEAM
- RB = ROOF BEAM

NOTES

- FOUNDATION IS DESIGNED ON BEARING CAPACITY OF 0.75 TSF WHICH HAS BEEN ASSUMED AND SHOULD BE VERIFIED ON SITE PRIOR TO EXECUTION OF WORK.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

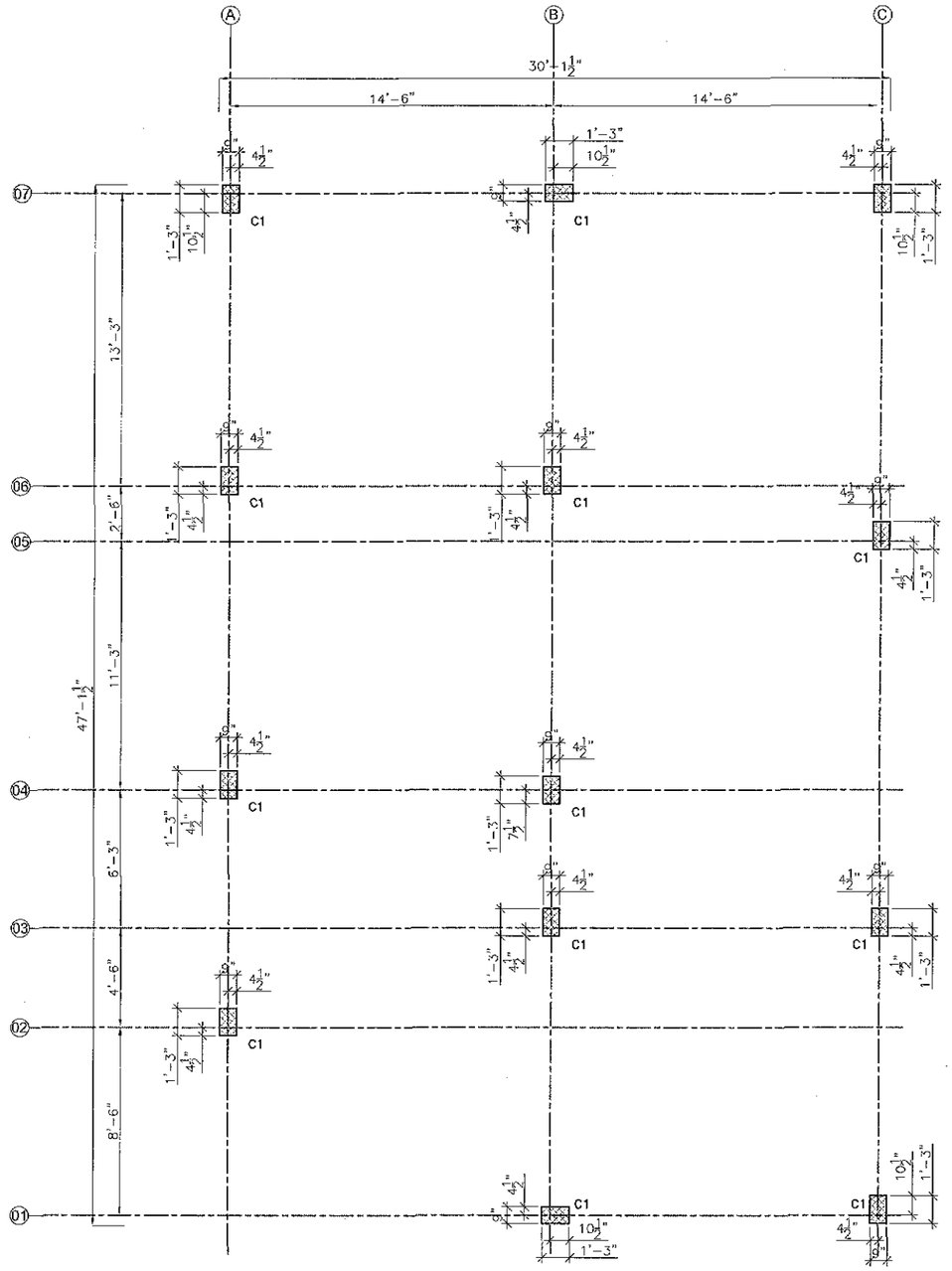
CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL.(PVT) LTD.
3rd Floor, Time Square Phza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4. FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STAFF BUILDING
GENERAL NOTES

DESIGN BY:	SHEET NO:
ARIF AHSAN	01 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV, 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI-EGC-KA/GS/WS/S-01



COLUMNS LAYOUT PLAN
AT N.S. LEVEL -3'-6"

NOTES

- FOUNDATION IS DESIGNED ON BEARING CAPACITY OF 0.75 TSF WHICH HAS BEEN ASSUMED AND SHOULD BE VERIFIED ON SITE PRIOR TO EXECUTION OF WORK.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
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MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

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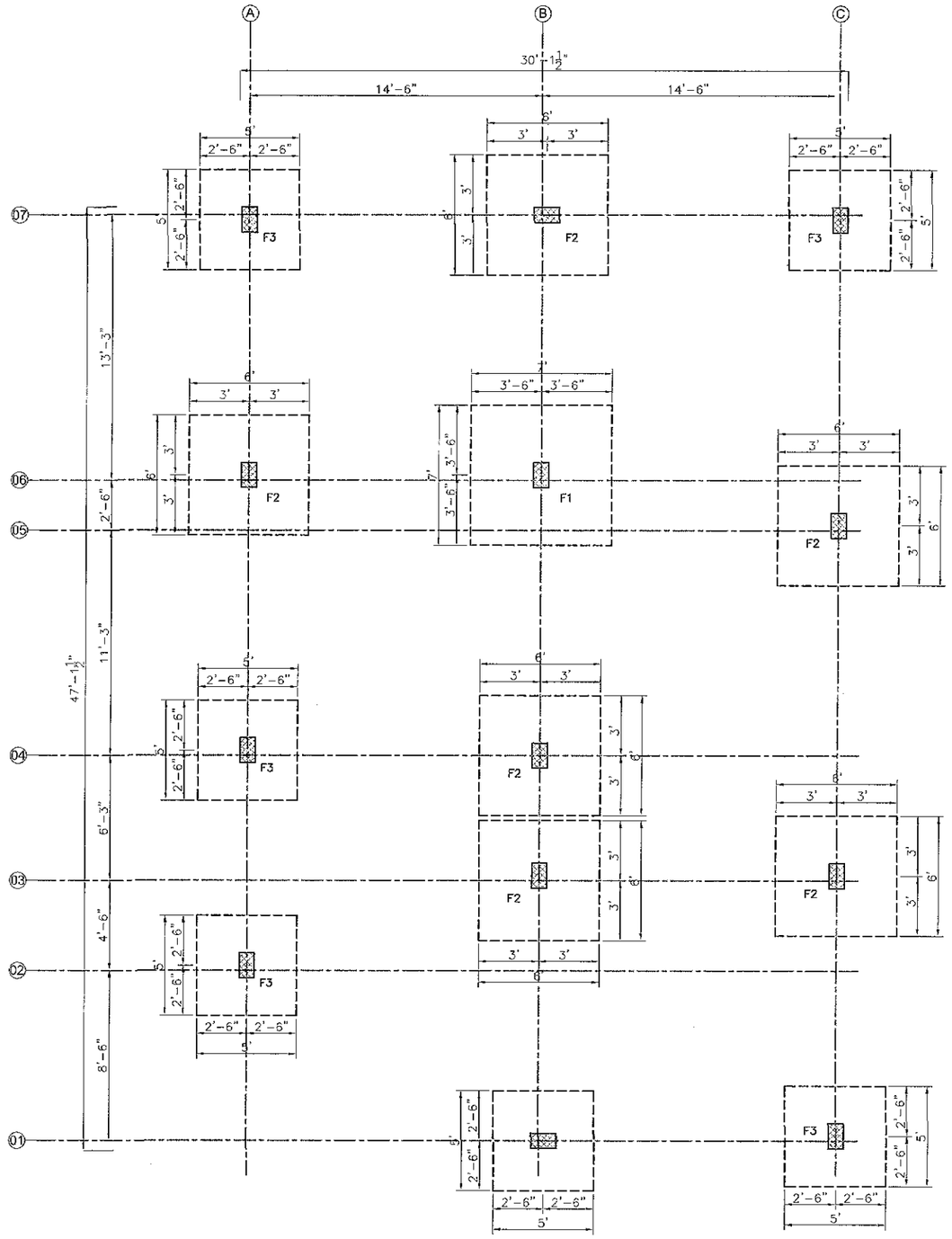
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STAFF BUILDING
COLUMNS LAYOUT PLAN
AT N.S.LEVEL -3'-6"

DESIGN BY:	SHEET NO:
ARIF AHSAN	02 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV. 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI/KA/NK/TPSB/S-02



COLUMNS FOUNDATION LAYOUT PLAN
AT N.S. LEVEL -3'-6"

NOTES

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LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
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MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
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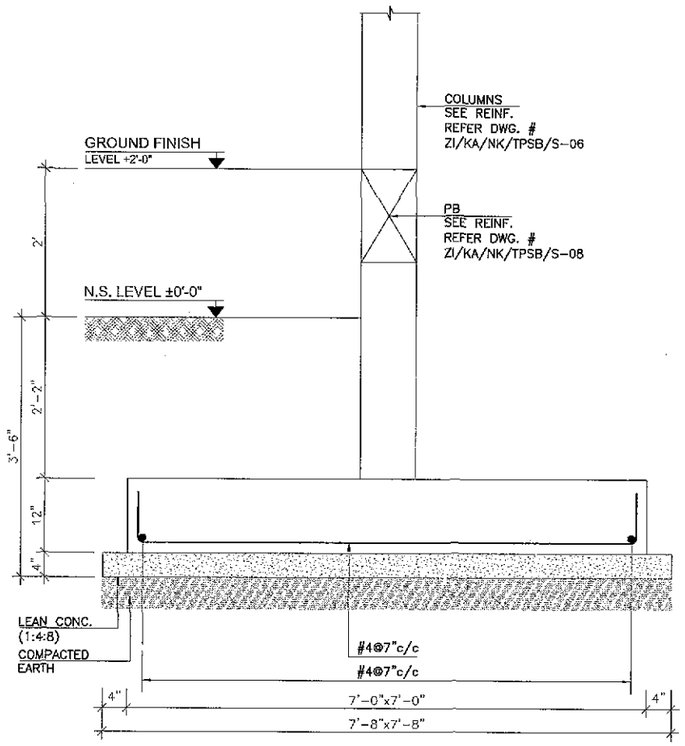
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

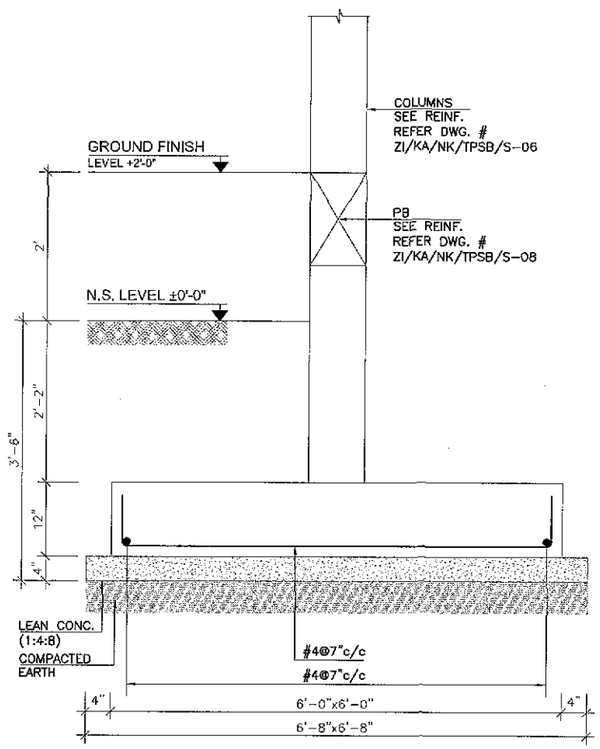
DRAWING TITLE:
STAFF BUILDING
COLUMNS FOUNDATION PLAN
AT N.S.LEVEL -3'-6"

DESIGN BY:	SHEET NO:
ARIF AHSAN	03 TO 11
DRAWN BY: ARS	SCALE: N.T.S
CHECKED BY: KASHIF	DATE: NOV, 2020
APPROVED BY: INAM MINHAS	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/TPSB/S-03



F-1 (ISOLATED FOOTING)



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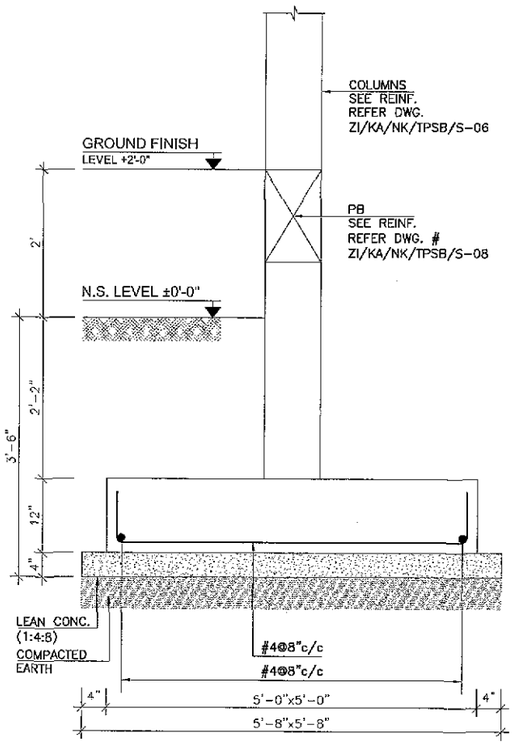

F-3 (ISOLATED FOOTING)

NOTES

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LEGENDS

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CLIENT:

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IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

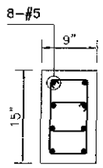
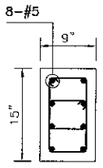
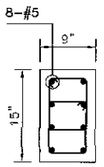
STAFF BUILDING
COLUMNS FOOTING SECTION
AT N.S.LEVEL -3'-6"

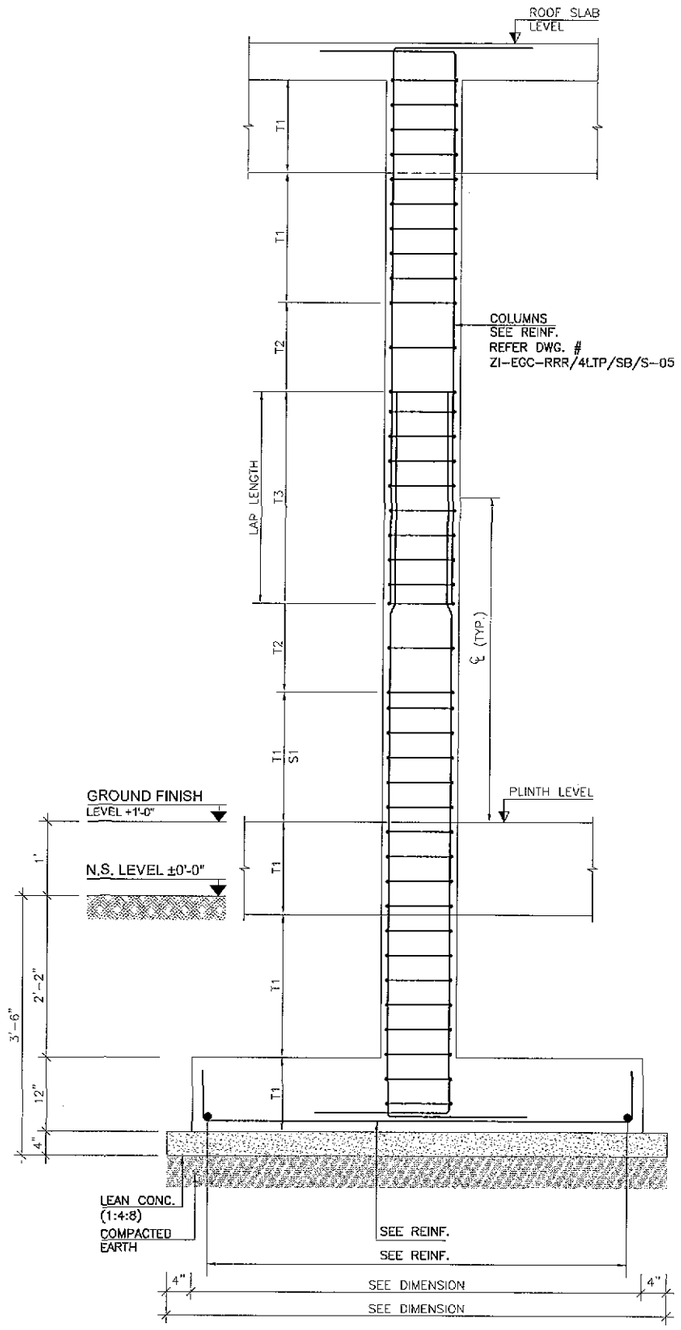
DESIGN BY:	SHEET NO:
ARIF AHSAN	04 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV, 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:

ZI/KA/NK/TPSB/S-04

COLUMNS REINFORCEMENT SCHEDULE

ELEVATION \ MARK	C1	- - - - -	
- - - - -	- - - - -	- - - - -	- - - - -
ROOF SLAB LEVEL +12'-6"		- - - - -	- - - - -
GROUND FINISH FLOOR LEVEL +2'-0"		- - - - -	- - - - -
COLUMNS FOOTING LEVEL -3'-6"		- - - - -	- - - - -
TIES (AT EDGES UPTO S1) T1	#3@4"c/c	- - - - -	- - - - -
T2	#3@8"c/c	- - - - -	- - - - -
(AT LAP) T3	#3@4"c/c	- - - - -	- - - - -



TYPICAL COLUMNS ELEVATION

NOTES

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LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
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CLIENT:
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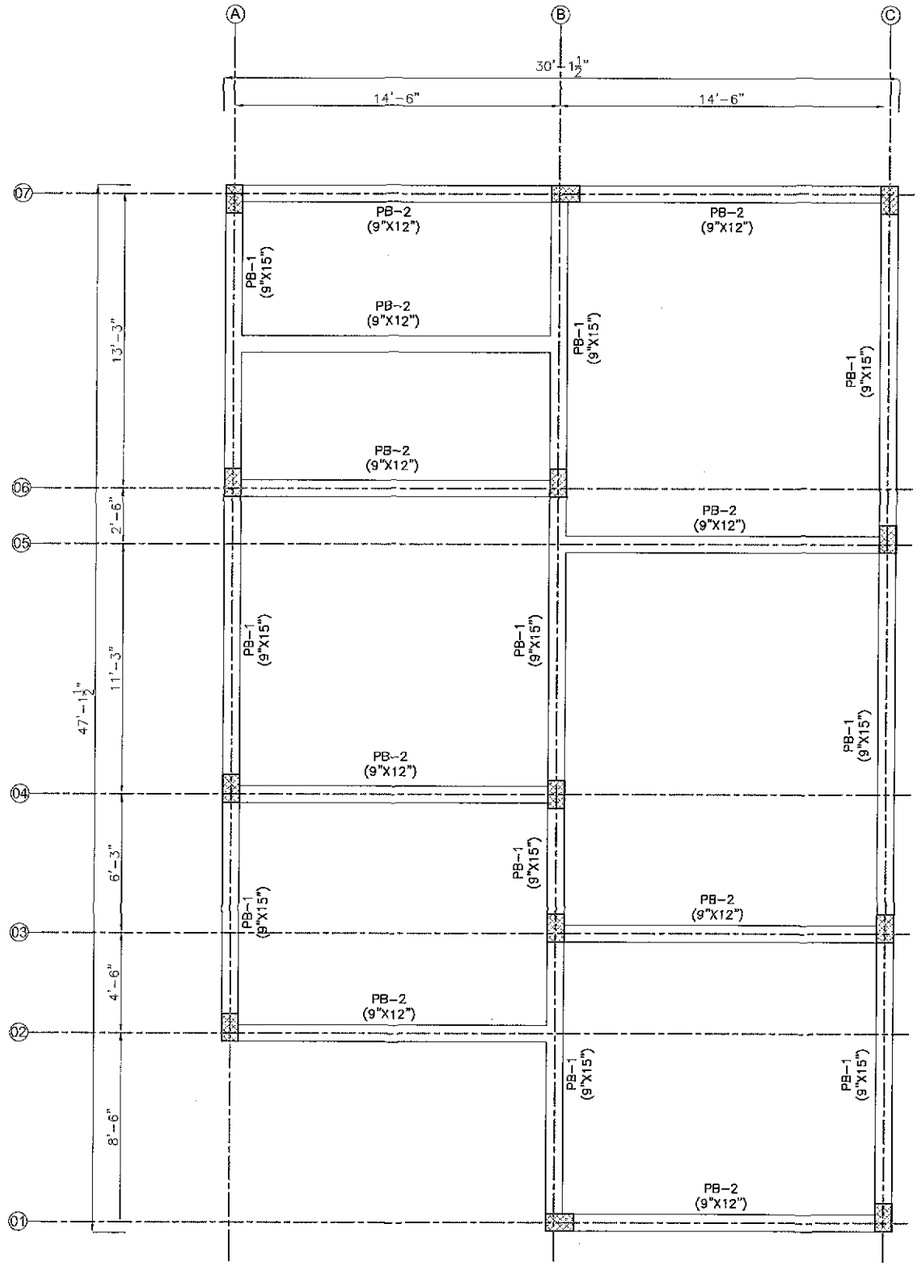
& ARCHITECTS.

DRAWING TITLE:
STAFF BUILDING
COLUMNS
REINFORCEMENT SCHEDULE

DESIGN BY:	SHEET NO:
ARIF AHSAN	05 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV. 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI/KA/NK/TPSB/S-05



PLINTH BEAM FRAMING DETAIL PLAN
AT GROUND FINISH FLOOR LEVEL +2'-0"

NOTES

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LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
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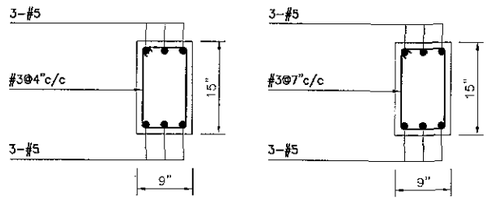
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STAFF BUILDING
PLINTH BEAM FRAMING PLAN
AT GROUND FINISH FLOOR
LEVEL +1'-0"

DESIGN BY:	SHEET NO:
ARIF AHSAN	06 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV, 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI/KA/NK/TPSB/S-06



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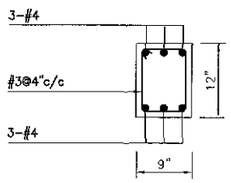
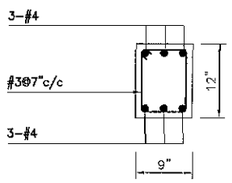
SUPPORT
(9"x15")

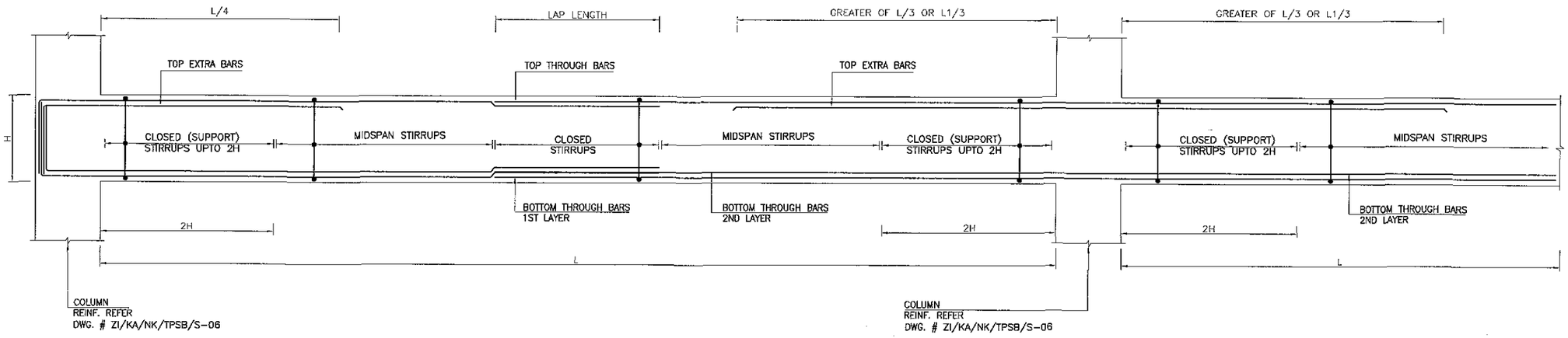
PB-1
MID SPAN
(9"x15")



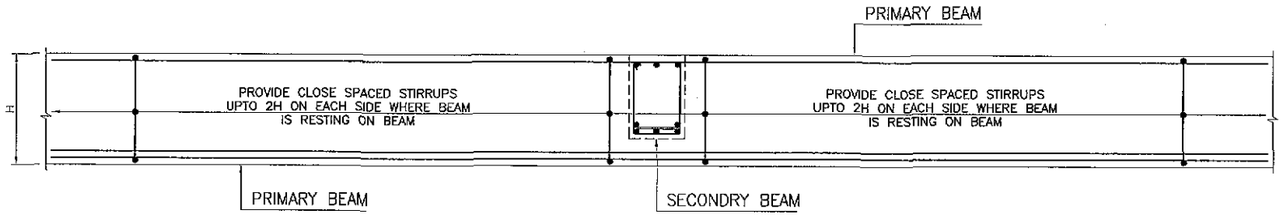
PB-2
SUPPORT
(9"x12")



PB-2
MID SPAN
(9"x12")



TYPICAL PLINTH BEAM ELEVATION
TYP.. JOINT DETAIL



PLINTH BEAM TO PLINTH BEAM
TYP. CONNECTION DETAIL

NOTES

- FOUNDATION IS DESIGNED ON BEARING CAPACITY OF 0.75 TSF WHICH HAS BEEN ASSUMED AND SHOULD BE VERIFIED ON SITE PRIOR TO EXECUTION OF WORK.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:
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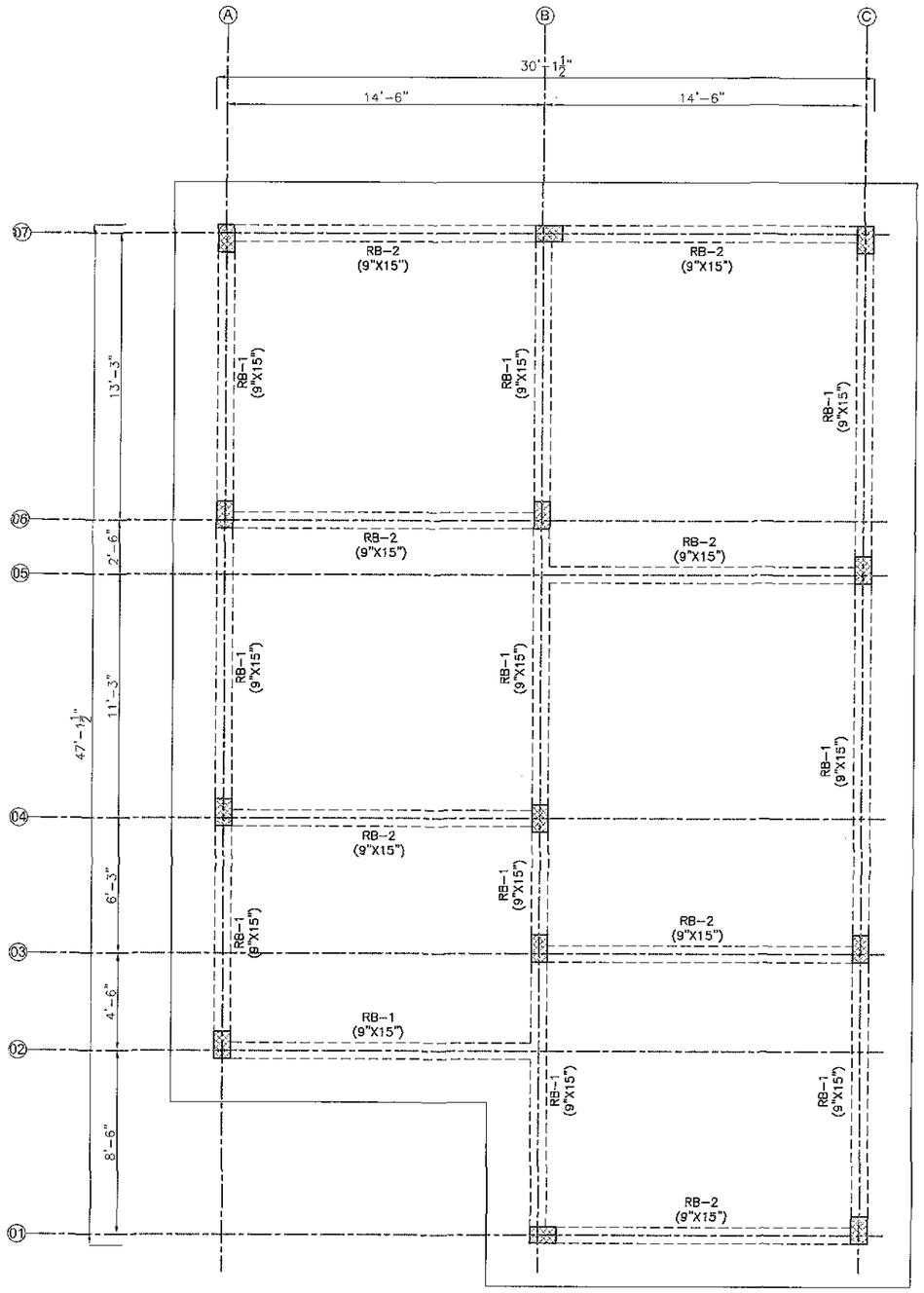
Ph: 051-4938213-4. FAX: 051-4938215
IN ASSOCIATION WITH:
KASHI ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STAFF BUILDING
PLINTH BEAM REINF. SECTION
AT GROUND FINISH LEVEL +1'-0"

DESIGN BY:	SHEET NO:
ARIF AHSAN	07 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV. 2020
APPROVED BY:	REVISION:
IMAM MINHAS	REV. 00

CAD FILE NAME:
ZI/KA/NK/TPSB/S-07



BEAM FRAMING DETAIL PLAN
AT ROOF SLAB LEVEL +12'-6"

NOTES

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LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
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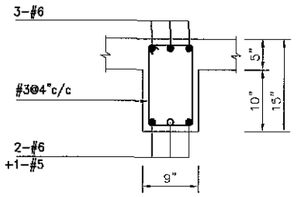
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STAFF BUILDING
BEAM FRAMING PLAN
AT ROOF SLAB LEVEL +13'-6"

DESIGN BY:	SHEET NO:
ARIF AHSAN	08 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV. 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI/KA/NK/TPSB/S-08



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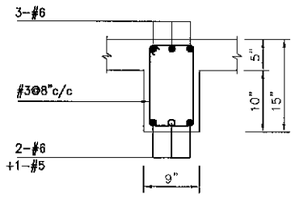
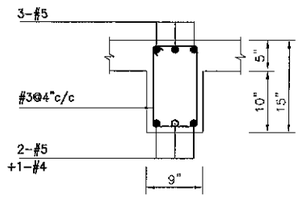
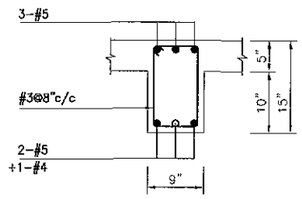
SUPPORT
(9"x15")



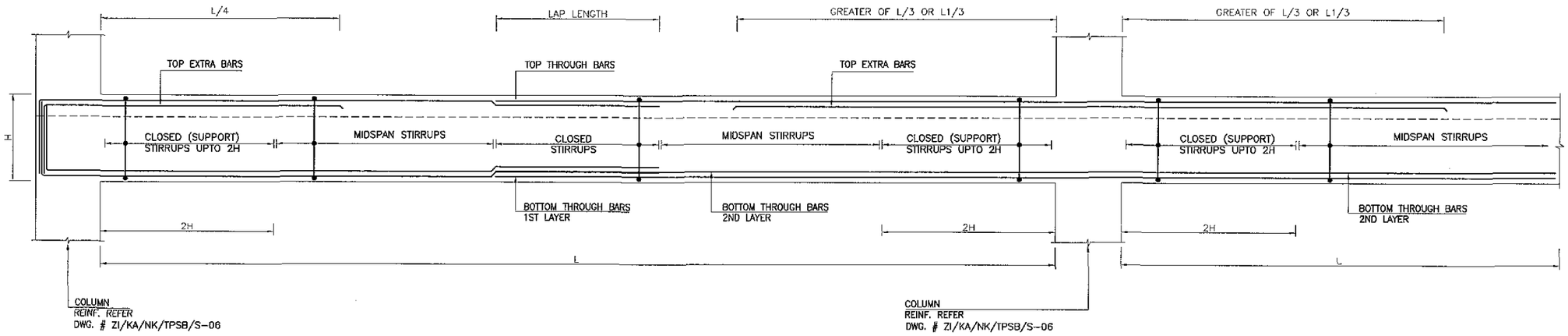
RB-1
MID SPAN
(9"x15")



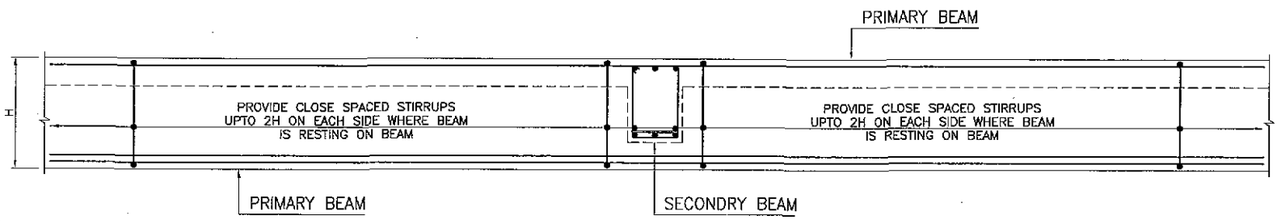
RB-2
SUPPORT
(9"x15")



RB-2
MID SPAN
(9"x15")



TYPICAL BEAM ELEVATION
TYP.. JOINT DETAIL



BEAM TO BEAM
TYP. CONNECTION DETAIL

NOTES

- FOUNDATION IS DESIGNED ON BEARING CAPACITY OF 0.75 TSF WHICH HAS BEEN ASSUMED AND SHOULD BE VERIFIED ON SITE PRIOR TO EXECUTION OF WORK.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

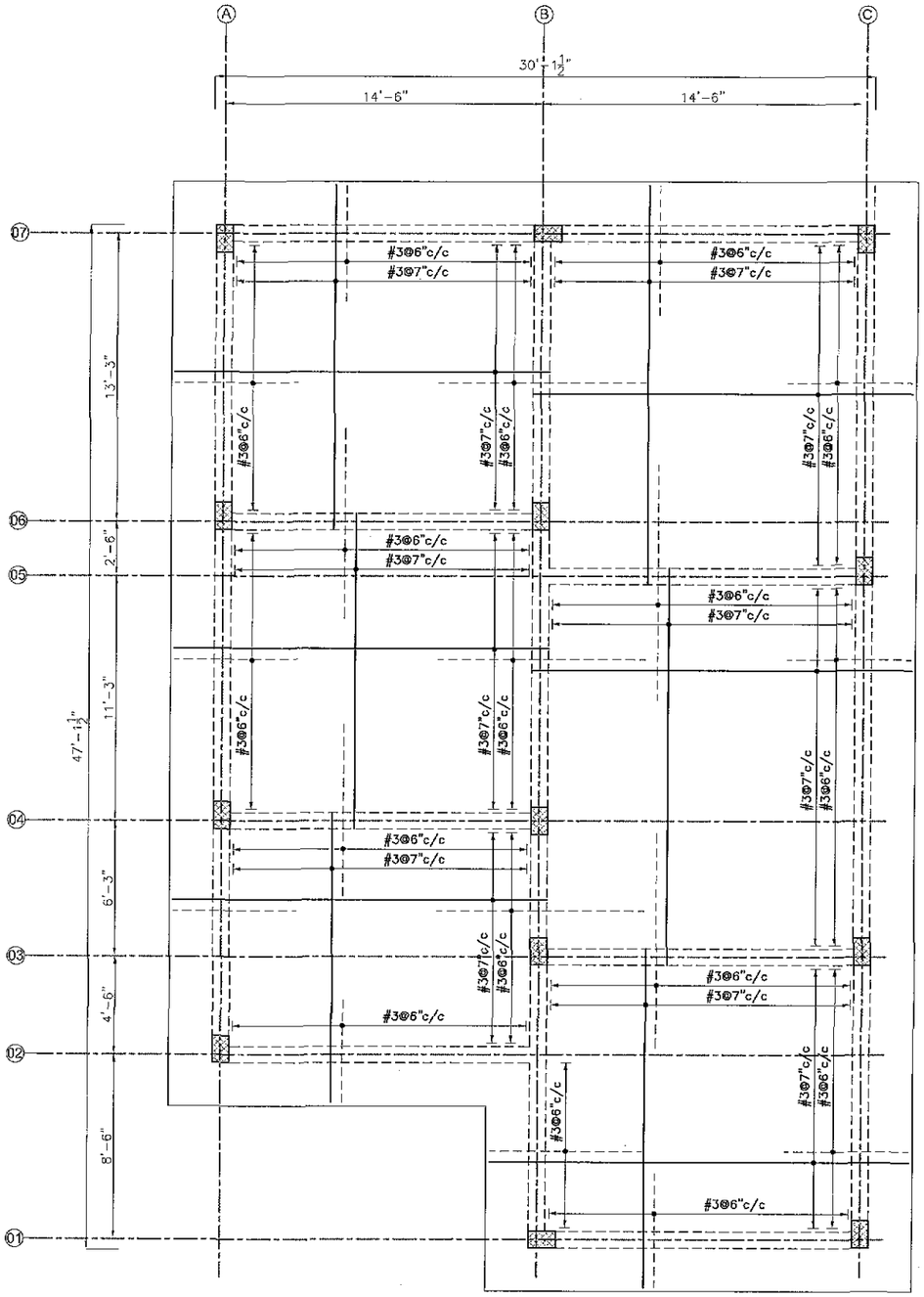
CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STAFF BUILDING
BEAM REINFORCEMENT SECTION
AT ROOF SLAB LEVEL +13'-6"

DESIGN BY:	SHEET NO:
ARIF AHSAN	09 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV. 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI/KA/NK/TPSB/S-09



SLAB REINFORCEMENT DETAIL PLAN

AT ROOF SLAB LEVEL +12'-6"
BOTTOM THROUGH BARS
SLAB THICKNESS 5" UNLESS NOTED OTHERWISE

NOTES

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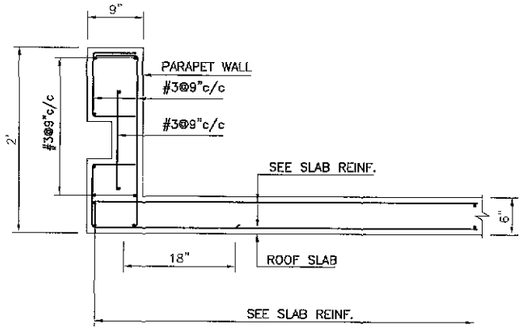
& ARCHITECTS.

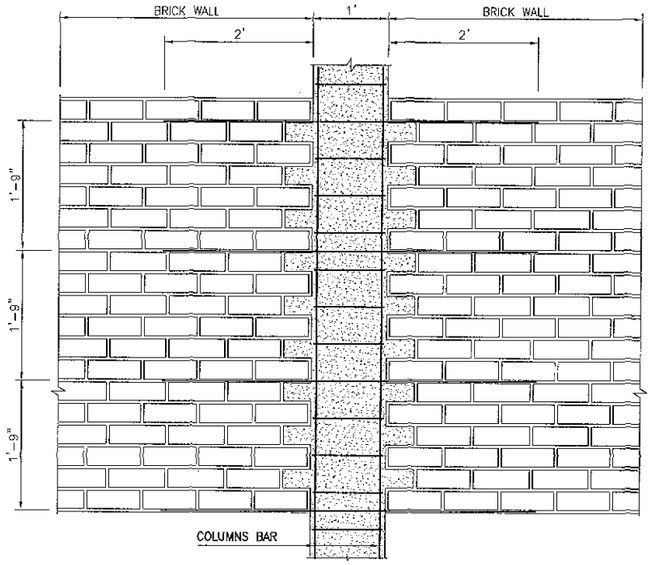
DRAWING TITLE:
STAFF BUILDING
SLAB REINFORCEMENT PLAN
AT ROOF SLAB LEVEL +13'-6"
BOTTOM THROUGH BARS

DESIGN BY:	SHEET NO:
ARIF AHSAN	10 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV. 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

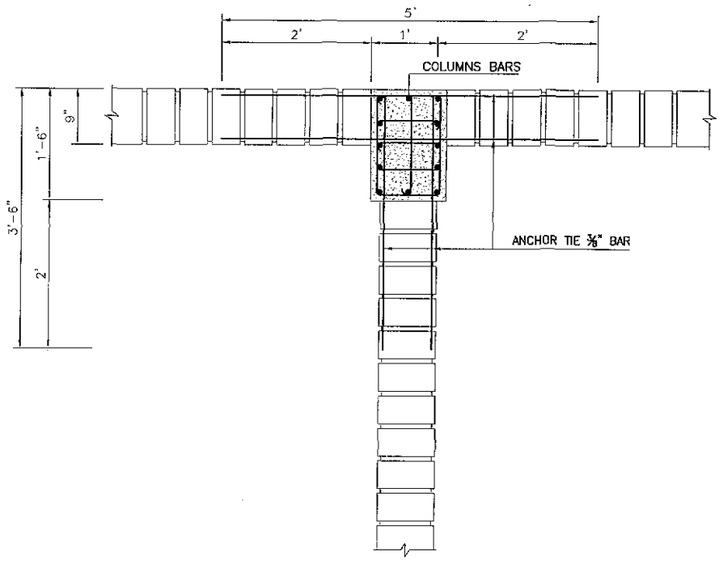
CAD FILE NAME:
ZI/KA/NK/TPSB/S-10



TYPICAL DETAIL OF PARAPET



TYPICAL ELEVATION
WALL & COLUMNS ANCHOR ELEVATION



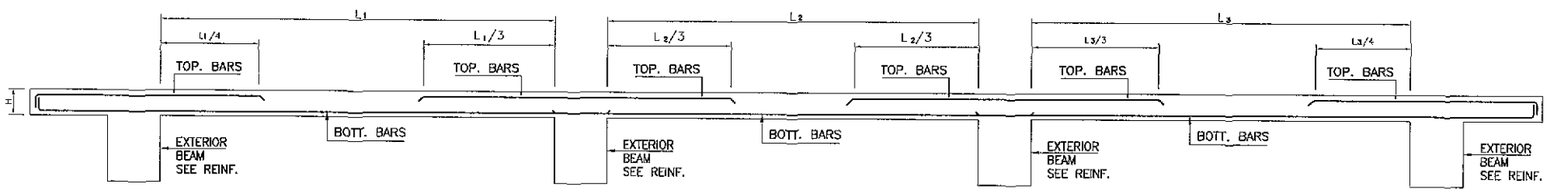
TYPICAL DETAIL T-JOINT
PLAN OF T-JOINT

LINTEL BEAM REINFORCEMENT

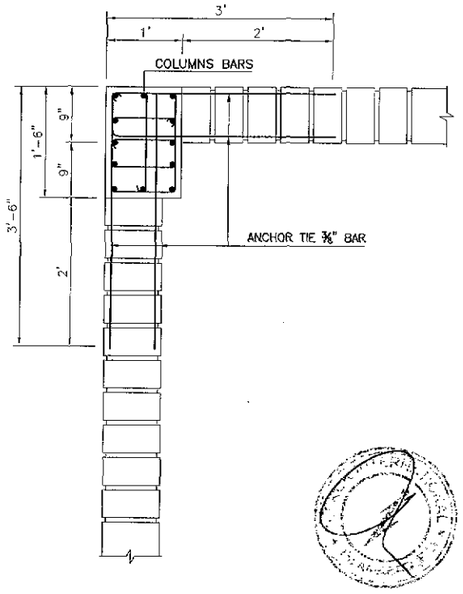
LINTEL BEAM REINFORCEMENT SCHEDULE	NO.	WIDTH OF OPENING	b" x h"	BOTTOM STEEL	TOP STEEL	TIES
	01	4'-0"	b x 6"	3 # 4	2 # 4	#3@8"c/c
	02	6'-0"	b x 6"	3 # 4	2 # 4	#3@8"c/c
	03	8'-0"	b x 8"	3 # 4	2 # 4	#3@8"c/c
	04	10'-0"	b x 8"	3 # 4	2 # 4	#3@8"c/c
	05	12'-0"	b x 12"	3 # 5	2 # 4	#3@8"c/c
	06	14'-0"	b x 12"	3 # 5	2 # 4	#3@8"c/c

NOTE:-

(1) b VARIES ACCORDING TO THE THICKNESS OF WALL



TYPICAL BARS CUTTOFF DETAILS FOR SLAB
NOTE: 1L2L > 3L > L



TYPICAL DETAIL CORNER JOINT
PLAN OF CORNER JOINT

NOTES
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LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
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CLIENT:
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KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
STAFF BUILDING
TYPICAL SECTION

DESIGN BY:	SHEET NO:
ARIF AHSAN	11 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASIIF	NOV, 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI/KA/NK/TPSB/S-11

NAUKANDI TO MASHKHEL

04 LANE TOLL PLAZA
GENERATOR ROOM BUILDING
STRUCTURAL DRAWINGS

LIST OF DRAWINGS

SERIAL NO.	DRAWING TITLE	DRAWING NO.
00	LIST OF DRAWING	ZI-KA/NK/04LTP/GR/S-00
01	GENERAL NOTES	ZI-KA/NK/04LTP/GR/S-01
02	COLUMNS LAYOUT PLAN AT N.S. LEVEL -3'-6"	ZI-KA/NK/04LTP/GR/S-02
03	COLUMNS FOUNDATION PLAN AT N.S. LEVEL -3'-6"	ZI-KA/NK/04LTP/GR/S-03
04	COLUMNS FOOTING SECTION AT N.S. LEVEL -3'-6"	ZI-KA/NK/04LTP/GR/S-04
05	COLUMNS REINFORCEMENT SCHEDULE	ZI-KA/NK/04LTP/GR/S-05
06	PLINTH BEAM FRAMING PLAN AT GROUND FINISH FLOOR LEVEL +1'-0"	ZI-KA/NK/04LTP/GR/S-06
07	PLINTH BEAM REINFORCEMENT SECTION AT GROUND INISH FLOOR LEVEL +1'-0"	ZI-KA/NK/04LTP/GR/S-07
08	BEAM FRAMING PLAN AT ROOF SLAB LEVEL +13'-6"	ZI-KA/NK/04LTP/GR/S-08
09	BEAM REINFORCEMENT SECTION AT ROOF SLAB LEVEL +13'-6"	ZI-KA/NK/04LTP/GR/S-09
10	SLAB REINFORCEMENT PLAN AT ROOF SLAB LEVEL +13'-6"	ZI-KA/NK/04LTP/GR/S-10
11	TYPICAL SECTION	ZI-KA/NK/04LTP/GR/S-11

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KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

04 LANE T.P GENERATOR ROOM
LIST OF DRAWING

DESIGN BY:	SHEET NO:
ARIF AHSAN	00 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV, 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:

ZI-KA/NK/04LTP/GR/S-00

STRUCTURAL NOTES

GENERAL

1. READ THESE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL RELEVANT DRAWINGS.
2. ALL LEVELS AND DIMENSIONS ARE IN METERS AND MILLIMETER UNLESS OTHERWISE NOTED.
3. DO NOT SCALE THE DRAWINGS, DIMENSIONS GIVEN ON THE DRAWING SHALL GOVERN.
4. ANY CHANGE THAT MAY AFFECT THE STRUCTURE SHOULD NOT BE MADE PRIOR TO THE APPROVAL OF STRUCTURAL DESIGN ENGINEER.

DESIGN CODES & BUILDING ZONE

1. THE BUILDING HAS BEEN DESIGNED ON THE BASIS OF THE PARAMETERS LAID DOWN IN THE DESIGN CODES ACI-318 AND UBC-97.
2. THE STRUCTURE IS DESIGNED FOR SEISMIC (ZONE – 2B) AS PER UBC-97.

FOUNDATION

1. THE DESIGN OF FOUNDATION IS BASED ON THE PARAMETERS LAID DOWN IN THE GEOTECHNICAL INVESTIGATION REPORT.
2. FOUNDATION IS DESIGNED ON BEARING CAPACITY OF 0.75 TSF. WHICH HAS BEEN ASSUMED AND SHOULD BE VERIFIED ON SITE PRIOR TO EXECUTION OF WORK.
3. FOUNDATION HAS BEEN DESIGNED FOR GROUND FLOOR AS SHOWN IN PRESENT ARCHITECTURE.ANY FURTHER CONSTRUCTION ABOVE FLOOR IS STRICTLY NOT ALLOWED.
4. ALL LOOSE/SOFT SOIL NOTICED DURING EXCAVATION SHALL BE REPLACED WITH ENGINEERED GRANULAR FILL COMPACTED TO 95% OF MAXIMUM DRY DENSITY.
5. THE FILLING SHALL BE DONE IN TWO LAYERS, EACH OF MAXIMUM 6" THICKNESS AND EACH LAYER SHALL BE COMPACTED UPTO 95% RELATIVE DENSITY.
6. PROVIDE TERMITE CONTROL TREATMENT IN THIS BUILDING.

REINFORCED CONCRETE WORKS

1. 28 – DAY COMPRESSIVE STRENGTH OF CONCRETE (CYLINDRICAL) SHOULD BE.
(a) FOR COL. = 3000 PSI.
(b) FOR FOOTING, BEAM & SLAB = 3000 PSI.

2. DEVELOPMENT LENGTH SHOULD BE FOLLOWED AS:–

NO.	BAR DIA (INCHES)	Ld (INCHES)
↓	↓	↓
1	3/8"	21"
2	1/2"	30"
3	5/8"	36"
4	3/4"	42"
5	1"	55"

REINFORCING STEEL WORKS

1. IN BEAMS, COLUMNS, FOOTINGS, WALLS AND WATER RETAINING STRUCTURES ALL REINFORCEMENT SHALL BE HIGH YIELD HOT ROLLED BILLET DEFORMED STEEL BARS CONFORMING TO ASTM A-615 GRADE 60 WITH SPECIFIED YIELD STRENGTH OF NOT LESS THEN 60,000 PSI.
2. IN SLAB ALL REINFORCEMENT SHALL BE DEFORMED STEEL BARS CONFORMING TO ASTM A-615 GRADE 60 WITH SPECIFIED YIELD STRENGTH OF NOT LESS THEN 60,000 PSI.
3. ALL DETAILING SHALL BE DONE AS PER ACI-315 AND ACI-318.
4. CONCRETE COVERS.

CONCRETE COVERS USED IN THE DESIGN ARE AS FOLLOWS:

CONCRETE CLEAR COVER SCHEDULE (INCHES)			
	CLEAR COVER TO PRIMARY SCHEDULE		
ELEMENT	SURFACE IN CONTACT WITH GROUND	ABOVE GROUND INTERIOR ENVIRONMENT	ABOVE GROUND EXTERIOR ENVIRONMENT
FOUNDATION	3"	1½"	1½"
COLUMNS / BEAM	2"	1½"	1½"
GRADE SLAB	2"	1½"	1½"
SUSPENDED SLAB	–	3/4"	1½"
EQUIPMENT	–	1½"	1½"
WATER TANK	3"	1½"	1½"

* NOTE: CLEAR COVER SHALL NOT BE LESS THAN ONE BAR DIAMETER.
5. LAP LENGTH SHOULD BE FOLLOWED AS:–

(a) 1" ø = 55" (b) 3/4" ø = 42" (c) 5/8" ø = 36" (d) 1/2" ø = 30" (e) 3/8" ø = 21"

6. ALL REINF. STEEL SHALL BE ACCURATELY LOCATED IN THE FORMS AND HELD FIRMLY IN PLACE BEFORE & DURING THE PLACING OF CONCRETE BY MEANS OF WIRE AND SUPPORTS ADEQUATE TO PREVENT DISPLACEMENT DURING THE COURSE OF CONSTRUCTION.
7. ALL LAPS IN BEAMS SHOULD BE PROVIDED AT MIDSPAN. FOR TOP BARS EXCEPT FOR FOOTING/SLAB ON GRADE.
8. ALL LAPS IN BEAMS SHOULD BE PROVIDED AT SUPPORT. FOR BOTTOM BARS EXCEPT FOR FOOTING/SLAB ON GRADE.
9. ALL LAPS IN FOOTING / SLAB ON GRADE SHOULD BE PROVIDED AT MID SPAN. (BOTTOM BARS)
10. ALL LAPS IN FOOTING / SLAB ON GRADE SHOULD BE PROVIDED AT SUPPORT. (TOP BARS)
11. FOR DUCT DIMENSION REFER TO ARCH / MEP DWGS. ALL LAPS IN SLABS SHOULD BE PROVIDED AT MIDSPAN. (TOP BARS).
12. ALL LAPS IN SLABS SHOULD BE PROVIDED AT SUPPORT. (BOTTOM BARS).
13. DISTRIBUTION REINFORCEMENT FOR SLABS

NO.	SLAB THICKNESS (Inches)	REINFORCEMENT
↓	↓	↓
1	6"	#3@9"c/c
2	7"	#3@9"c/c
3	8"	#3@9"c/c
4	10"	#3@7"c/c
5	12"	#3@9"c/c

CONCRETE CONSTRUCTION

1. AVOID STACKING OF CONSTRUCTION MATERIALS, BRICKS, BLOCKS etc. ON SLAB PANELS DURING CONSTRUCTION.
2. BEFORE CASTING OF ANY STRUCTURAL MEMBER, IT SHALL BE ENSURED THAT ALL EMBEDDED ITEMS OR OPENINGS FOR ELECTRICAL, PLUMBING, STRUCTURAL STEEL AND OTHER WORKS ARE PROPERLY LOCATED IN PLACE.

ABBREVIATION

- C = COLUMN
- F = FOOTING
- PB = PLINTH BEAM
- RB = ROOF BEAM

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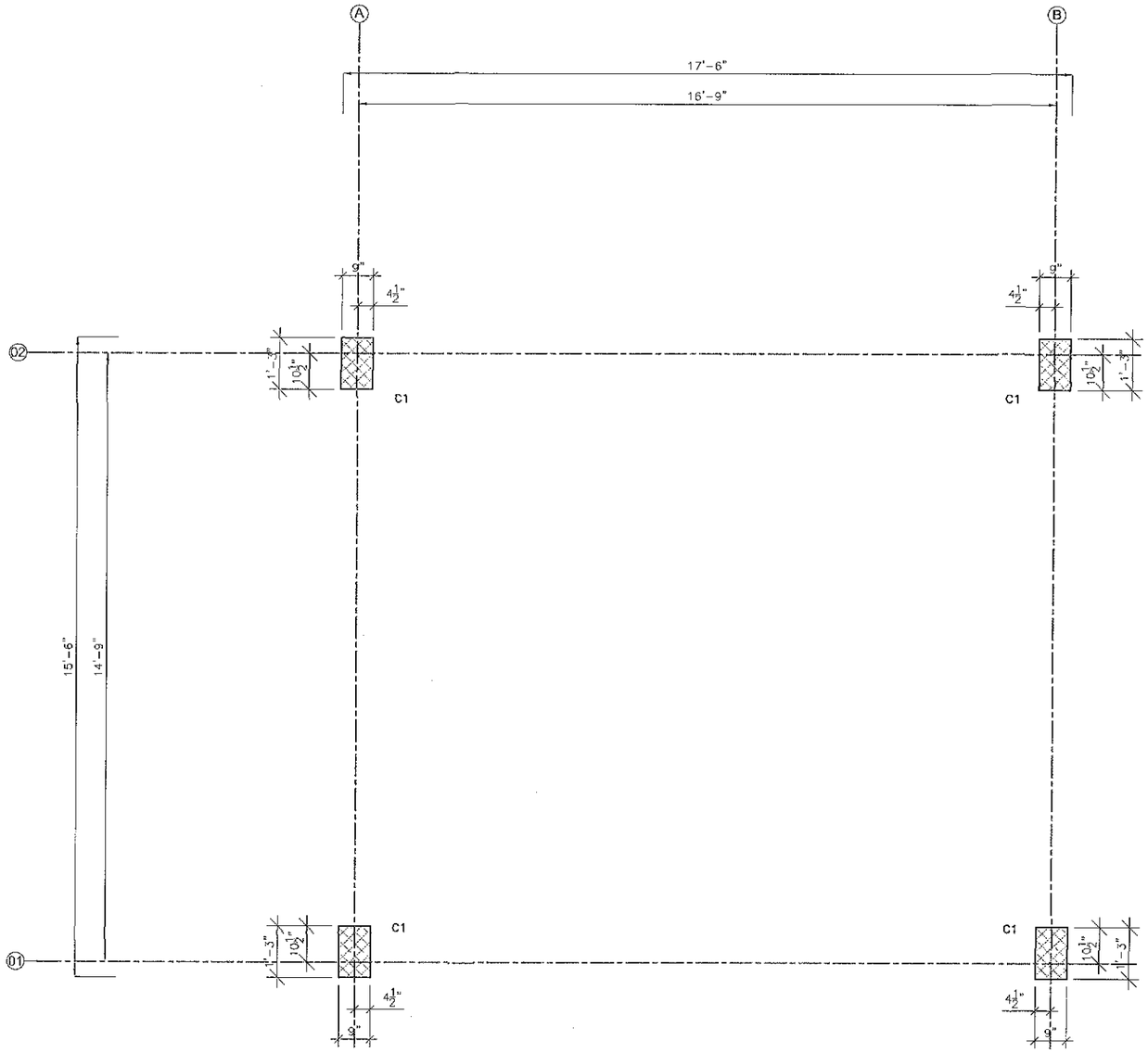
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
04 LANE T.P GENERATOR ROOM GENERAL NOTES

DESIGN BY: ARIF AHSAN	SHEET NO: 01 TO 11
DRAWN BY: ARS	SCALE: N.T.S
CHECKED BY: KASHIF	DATE: NOV. 2020
APPROVED BY: INAM MINHAS	REVISION: REV. 00

CAD FILE NAME:
ZI-KA/NK/04LTP/GR/S-01



COLUMNS LAYOUT PLAN
AT N.S. LEVEL -3'-6"

NOTES

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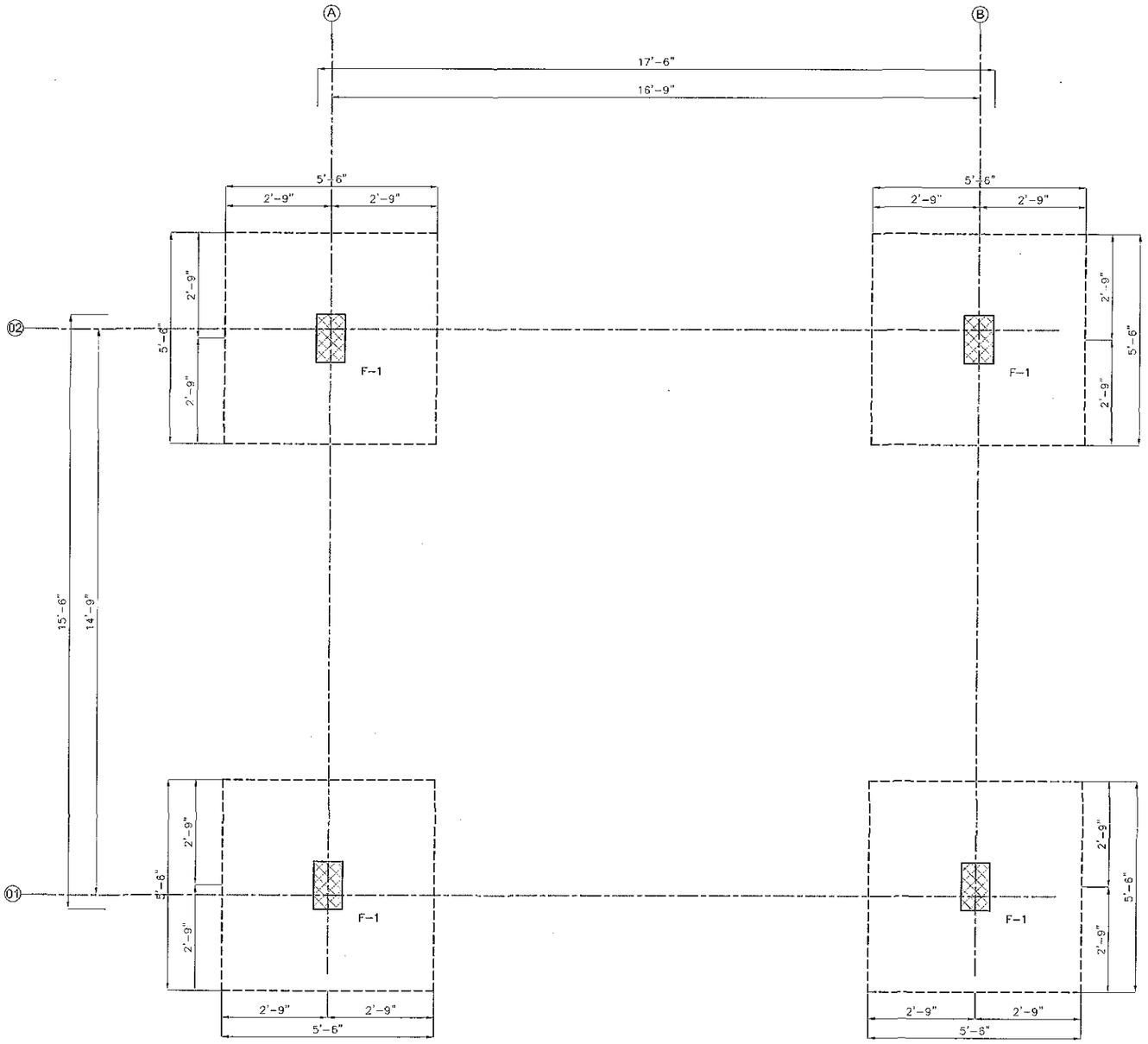
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
04 LANE T.P GENERATOR ROOM
COLUMNS LAYOUT PLAN
AT N.S.LEVEL -3'-6"

DESIGN BY: ARIF AHSAN	SHEET NO: 02 TO 11
DRAWN BY: ARS	SCALE: N.T.S
CHECKED BY: KASIIF	DATE: NOV, 2020
APPROVED BY: INAM MINHAS	REVISION: REV. 00

CAD FILE NAME:
ZI-KA/NK/04LTP/GR/S-02



COLUMNS FOUNDATION LAYOUT PLAN
AT N.S. LEVEL -3'-6"

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REV.	REVISION/ISSUE	DATE

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ISLAMABAD

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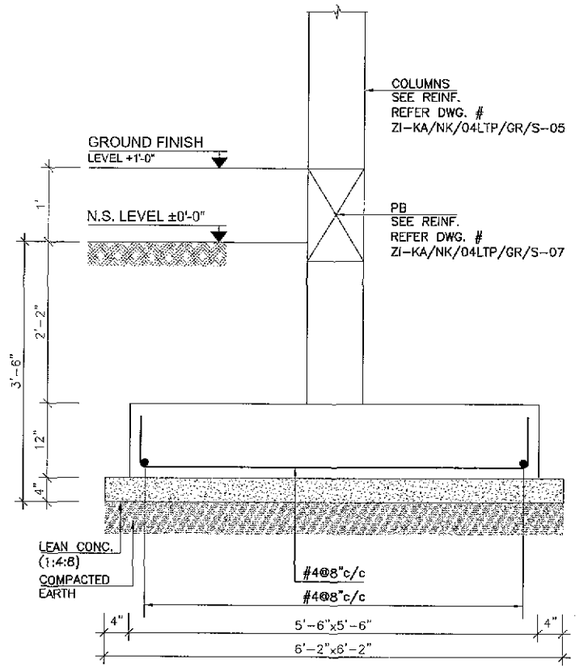
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

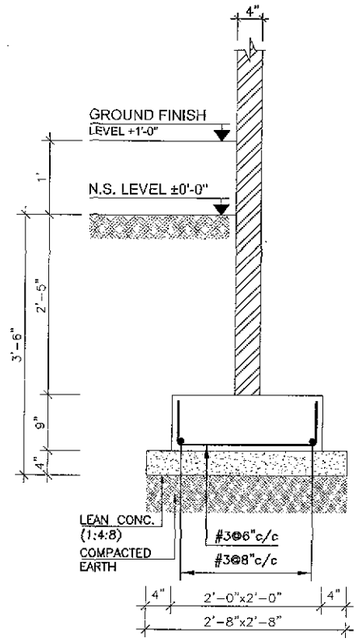
DRAWING TITLE:
04 LANE T.P GENERATOR ROOM
COLUMNS FOUNDATION PLAN
AT N.S.LEVEL -3'-6"

DESIGN BY:	SHEET NO:
ARIF AHSAN	03 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV. 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI-KA/NK/04LTP/GR/S-03



F-1 (ISOLATED FOOTING)



SECTION OF 4" WALL

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IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

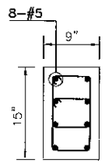
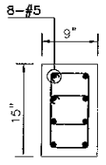
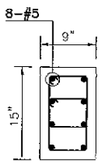
04 LANE T.P GENERATOR ROOM
COLUMNS FOOTING SECTION
AT N.S.LEVEL -3'-6"

DESIGN BY: ARIF AHSAN	SHEET NO: 04 TO 11
DRAWN BY: ARS	SCALE: N.T.S
CHECKED BY: KASHIF	DATE: NOV, 2020
APPROVED BY: INAM MINHAS	*REVISION:* REV. 00

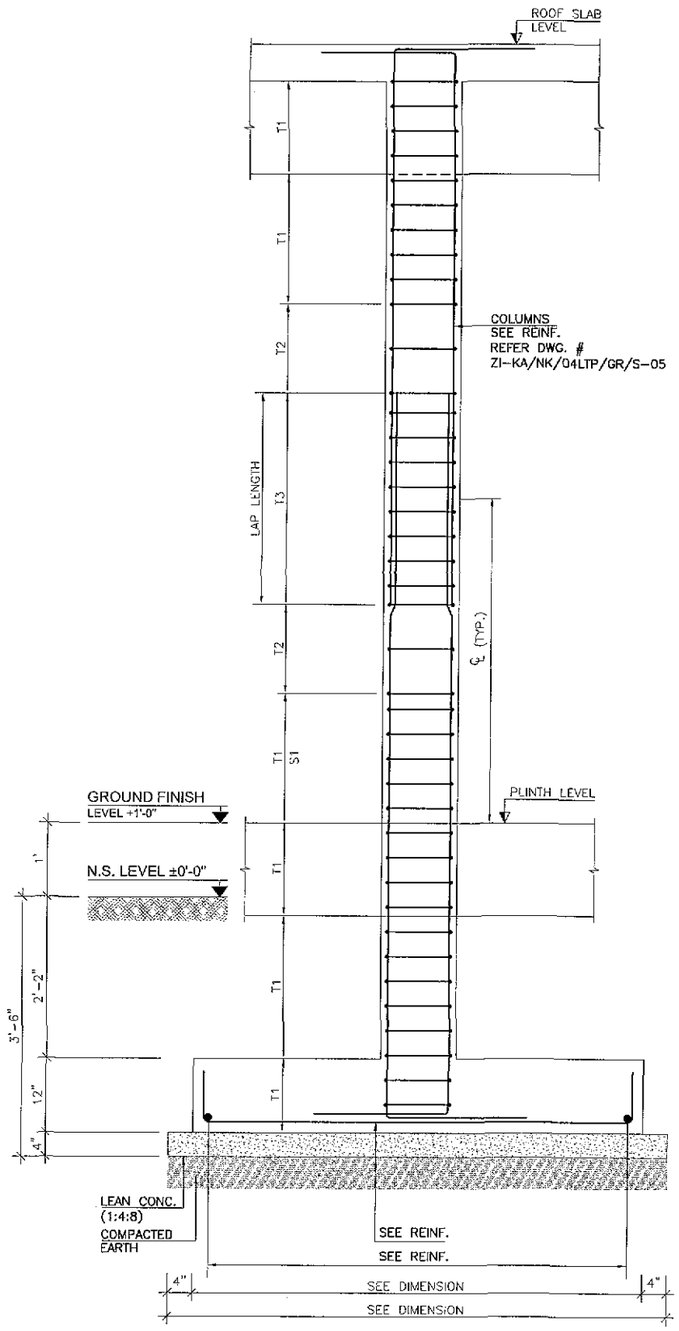
CAD FILE NAME:

ZI-KA/NK/04LTP/GR/S-04

COLUMNS REINFORCEMENT SCHEDULE

ELEVATION \ MARK	C1	- - - - -	- - - - -
- - - - -	- - - - -	- - - - -	- - - - -
ROOF SLAB LEVEL +13'-6"		- - - - -	- - - - -
GROUND FINISH FLOOR LEVEL +1'-0"		- - - - -	- - - - -
COLUMNS FOOTING LEVEL -3'-6"		- - - - -	- - - - -

TIES				
	(AT EDGES UPTO S1)	T1	#3@4"c/c	- - - - -
		T2	#3@8"c/c	- - - - -
	(AT LAP)	T3	#3@4"c/c	- - - - -



TYPICAL COLUMNS ELEVATION

NOTES

- FOUNDATION IS DESIGNED ON BEARING CAPACITY OF 0.75 TSF WHICH HAS BEEN ASSUMED AND SHOULD BE VERIFIED ON SITE PRIOR TO EXECUTION OF WORK.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

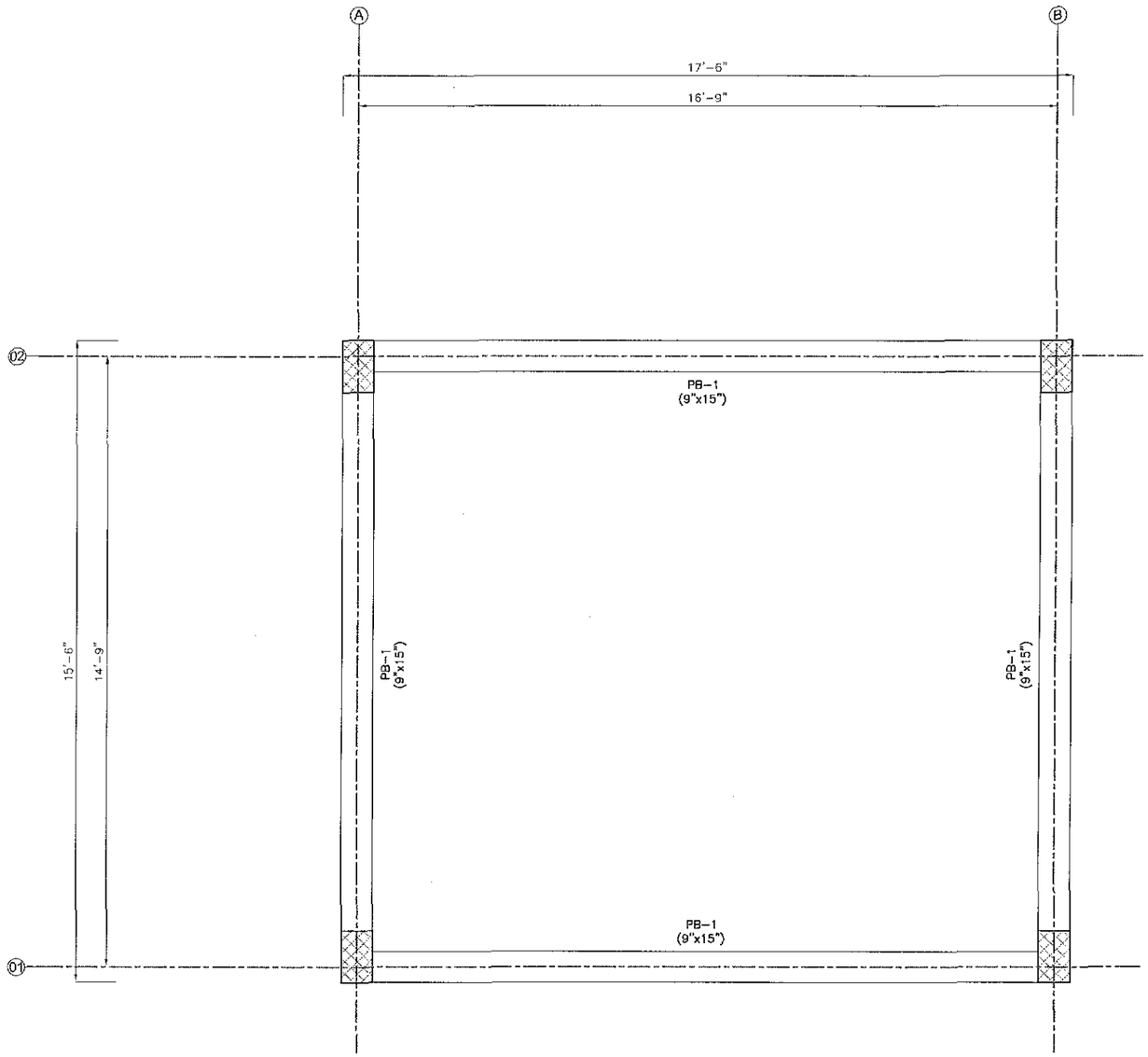
CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL (PVT) LTD.
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
04 LANE T.P GENERATOR ROOM
COLUMNS
REINFORCEMENT SCHEDULE

DESIGN BY:	SHEET NO:
ARIF AHSAN	05 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASIIF	NOV, 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI-KA/NK/04LTP/GR/S-05



PLINTH BEAM FRAMING DETAIL PLAN
AT GROUND FINISH FLOOR LEVEL +1'-0"

NOTES

- FOUNDATION IS DESIGNED ON BEARING CAPACITY OF 0.75 TSF WHICH HAS BEEN ASSUMED AND SHOULD BE VERIFIED ON SITE PRIOR TO EXECUTION OF WORK.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

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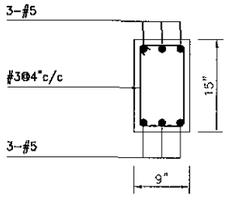
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

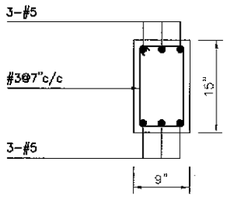
DRAWING TITLE:
04 LANE T.P GENERATOR ROOM
PLINTH BEAM FRAMING PLAN
AT GROUND FINISH FLOOR
LEVEL +1'-0"

DESIGN BY:	SHEET NO:
ARIF AHSAN	06 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV. 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

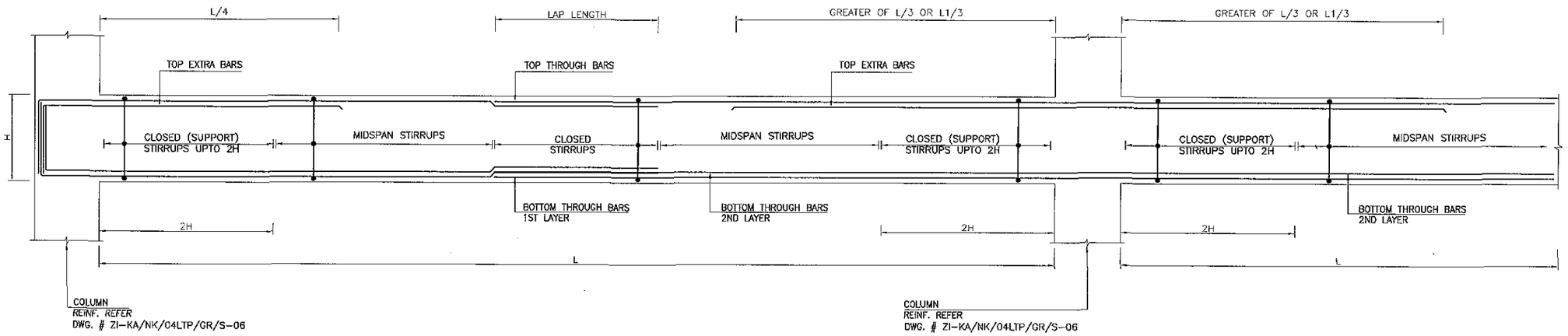
CAD FILE NAME:
ZI-KA/NK/04LTP/GR/S-06



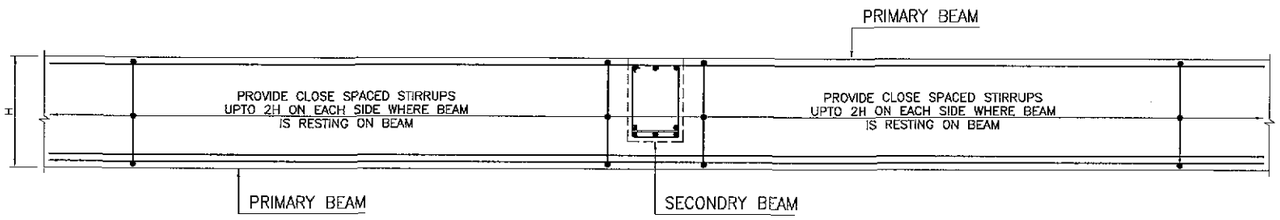
PB-1
SUPPORT
(9"x15")



PB-1
MID SPAN
(9"x15")



TYPICAL PLINTH BEAM ELEVATION
TYP.. JOINT DETAIL



PLINTH BEAM TO PLINTH BEAM
TYP. CONNECTION DETAIL

NOTES

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LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
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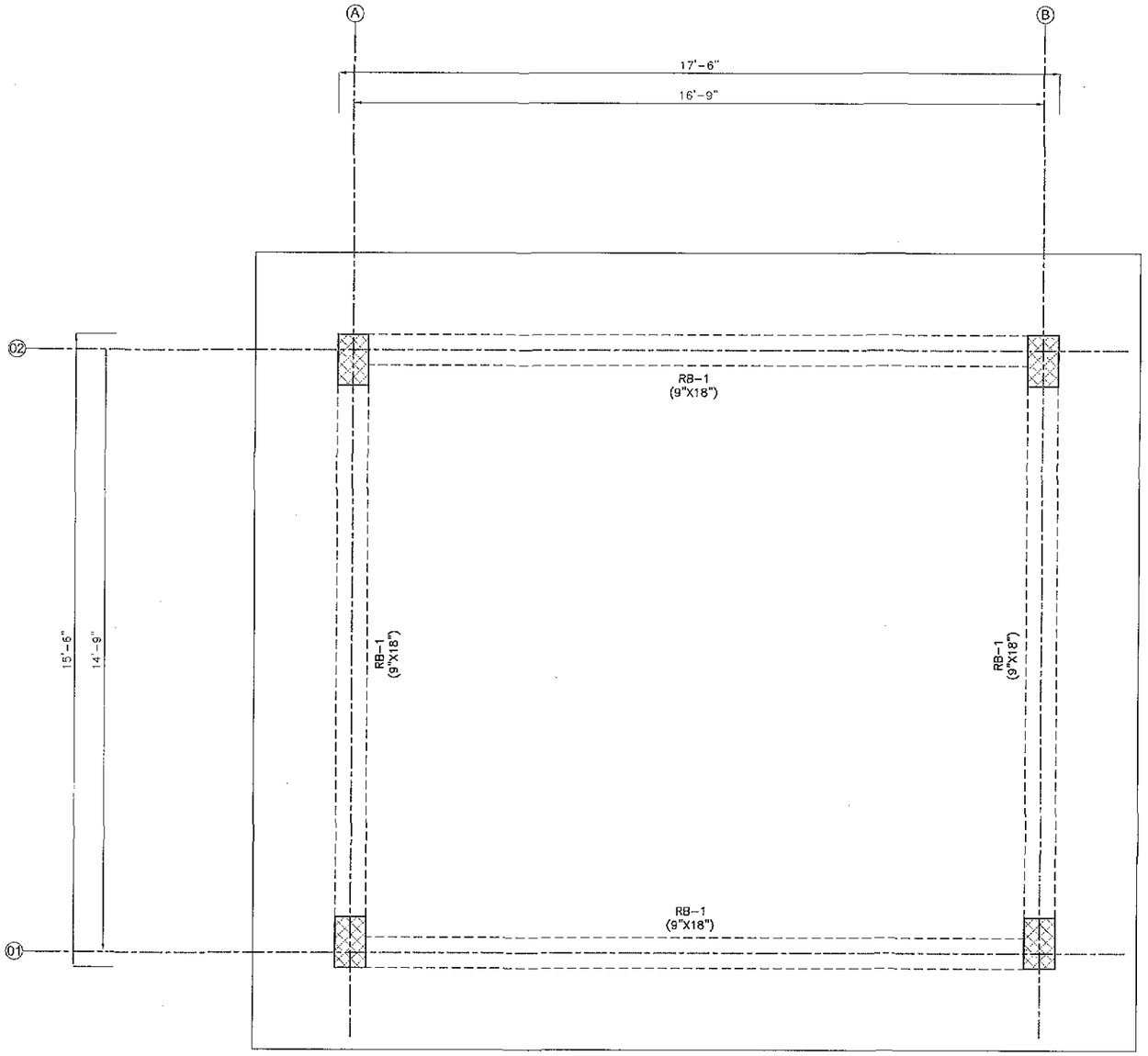
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
04 LANE T.P GENERATOR ROOM PLINTH BEAM REINF. SECTION AT GROUND FINISH LEVEL +1'-0"

DESIGN BY:	SHEET NO:
ARIF AHSAN	07 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV, 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI-KA/NK/04LTP/GR/S-07



BEAM FRAMING DETAIL PLAN
AT ROOF SLAB LEVEL +13'-6"

NOTES

- FOUNDATION IS DESIGNED ON BEARING CAPACITY OF 0.75 TSF WHICH HAS BEEN ASSUMED AND SHOULD BE VERIFIED ON SITE PRIOR TO EXECUTION OF WORK.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
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MINISTRY OF COMMUNICATIONS
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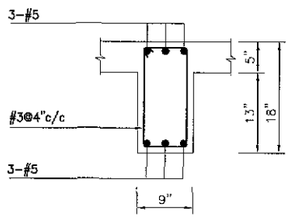
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

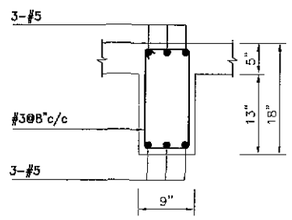
DRAWING TITLE:
04 LANE T.P GENERATOR ROOM
BEAM FRAMING PLAN
AT ROOF SLAB LEVEL +13'-6"

DESIGN BY:	SHEET NO:
ARIF AHSAN	08 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV. 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

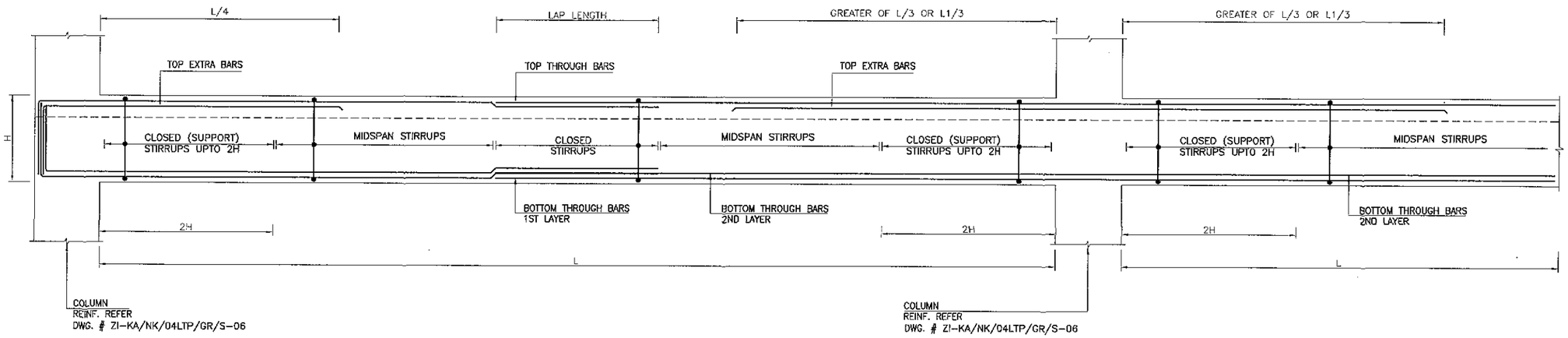
CAD FILE NAME:
ZI-KA/NK/04LTP/GR/S-08



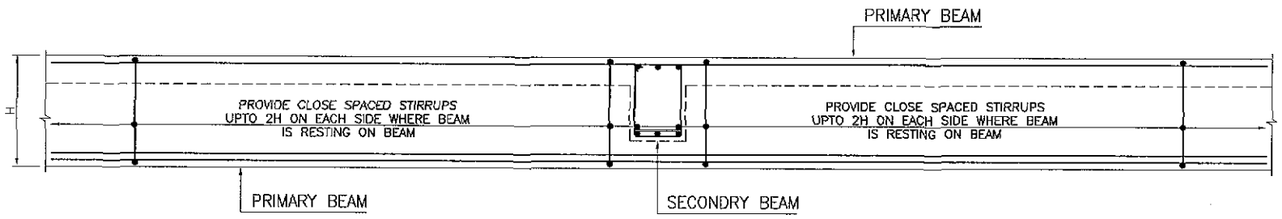
RB-1
SUPPORT
(9"x18")



RB-1
MID SPAN
(9"x18")



TYPICAL BEAM ELEVATION
TYP.. JOINT DETAIL



BEAM TO BEAM
TYP. CONNECTION DETAIL

NOTES

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LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
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MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL.(PVT) LTD
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IN ASSOCIATION WITH :
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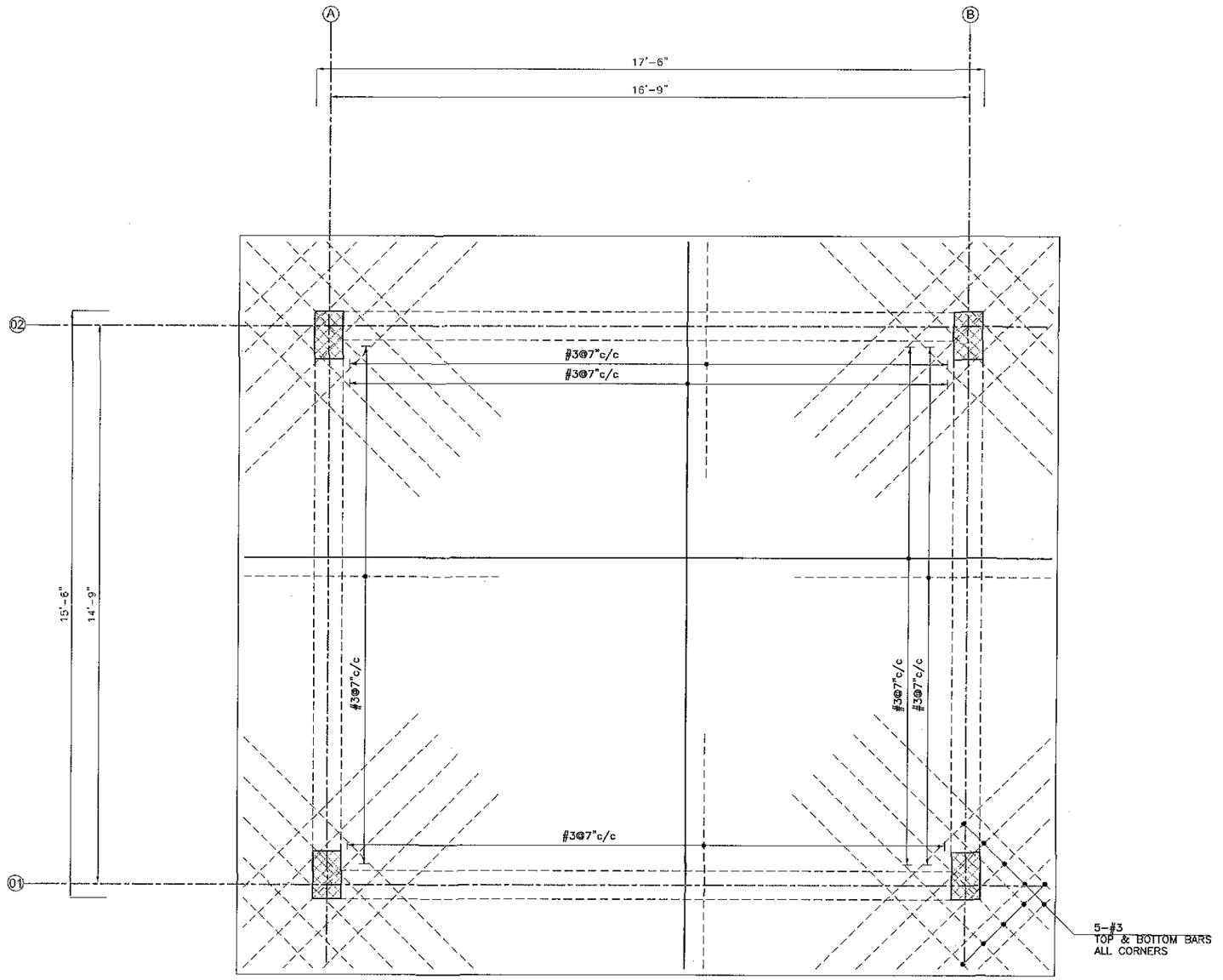
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
04 LANE T.P GENERATOR ROOM BEAM REINFORCEMENT SECTION AT ROOF SLAB LEVEL +13'-6"

DESIGN BY:	SHEET NO:
ARIF AHSAN	09 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV. 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI-KA/NK/04LTP/GR/S-09



SLAB REINFORCEMENT DETAIL PLAN

AT ROOF SLAB LEVEL +13'-6"
SLAB THICKNESS 5" UNLESS NOTED OTHERWISE

NOTES

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LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL.(PVT) LTD
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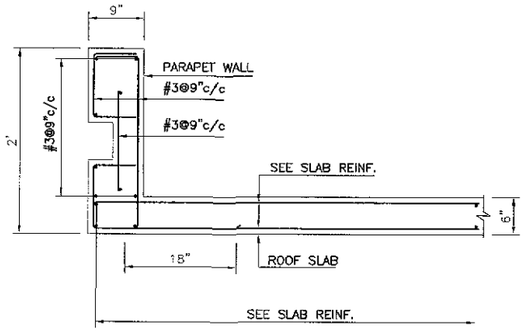
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

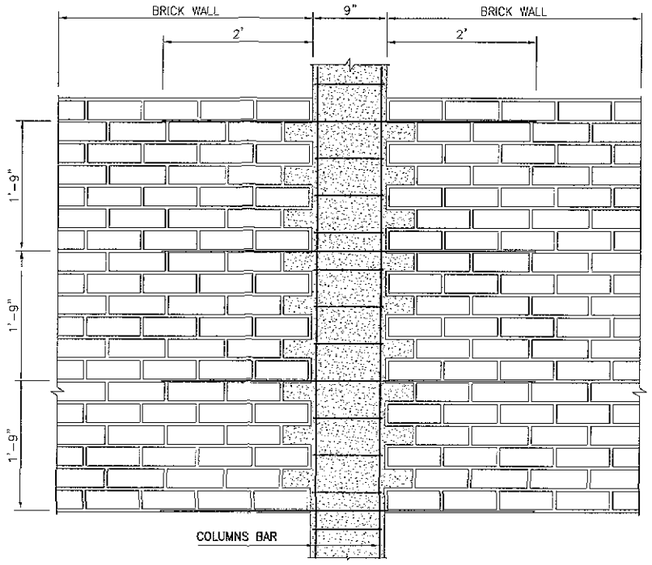
DRAWING TITLE:
04 LANE T.P GENERATOR ROOM
SLAB REINFORCEMENT PLAN
AT ROOF SLAB LEVEL +13'-6"
BOTTOM THROUGH BARS

DESIGN BY:	SHEET NO:
ARIF AHSAN	10 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV. 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

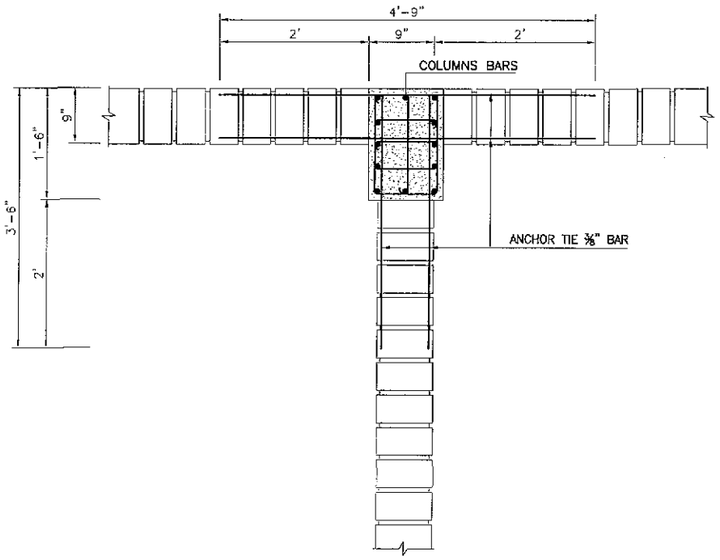
CAD FILE NAME:
ZI-KA/NK/04LTP/GR/S-10



TYPICAL DETAIL OF PARAPET



TYPICAL ELEVATION
WALL & COLUMNS ANCHOR ELEVATION



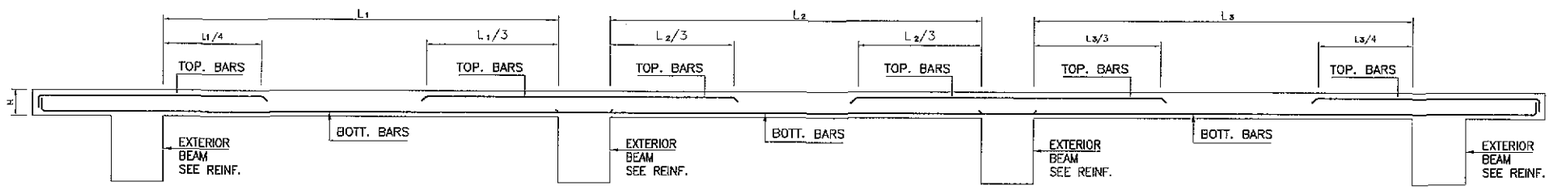
TYPICAL DETAIL T-JOINT
PLAN OF T-JOINT

LINTEL BEAM REINFORCEMENT

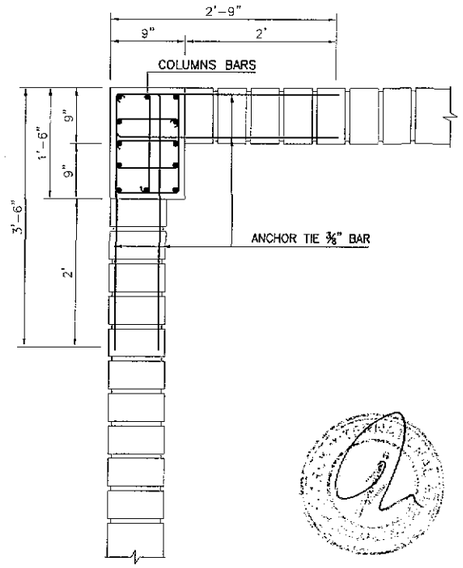
LINTEL BEAM REINFORCEMENT SCHEDULE	NO.	WIDTH OF OPENING	b" x h"	BOTTOM STEEL	TOP STEEL	TIES
	01	4'-0"	b x 6"	3 # 4	2 # 4	#3@8"c/c
	02	6'-0"	b x 6"	3 # 4	2 # 4	#3@8"c/c
	03	8'-0"	b x 8"	3 # 4	2 # 4	#3@8"c/c
	04	10'-0"	b x 8"	3 # 4	2 # 4	#3@8"c/c
	05	12'-0"	b x 12"	3 # 5	2 # 4	#3@8"c/c
	06	14'-0"	b x 12"	3 # 5	2 # 4	#3@8"c/c

NOTE:-

(1) b VARIES ACCORDING TO THE THICKNESS OF WALL



TYPICAL BARS CUTTOFF DETAILS FOR SLAB
NOTE: 1L2L > 3L > L



TYPICAL DETAIL CORNER JOINT
PLAN OF CORNER JOINT

NOTES
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LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL.(PVT) LTD
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Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
04 LANE T.P GENERATOR ROOM
TYPICAL SECTION

DESIGN BY:	SHEET NO.
ARIF AHSAN	11 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV. 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI-KA/NK/04LTP/GR/S-11

NAUKANDI TO MASHKHEL

04 LANE TOLL PLAZA
WEIGH STATION BUILDING
STRUCTURAL DRAWINGS

LIST OF DRAWINGS

SERIAL NO.	DRAWING TITLE	DRAWING NO.
00	LIST OF DRAWING	ZI-KA/NK/04LTP/WS/S-00
01	GENERAL NOTES	ZI-KA/NK/04LTP/WS/S-01
02	COLUMNS LAYOUT PLAN AT N.S. LEVEL -3'-6"	ZI-KA/NK/04LTP/WS/S-02
03	COLUMNS FOUNDATION PLAN AT N.S. LEVEL -3'-6"	ZI-KA/NK/04LTP/WS/S-03
04	COLUMNS FOOTING SECTION AT N.S. LEVEL -3'-6"	ZI-KA/NK/04LTP/WS/S-04
05	COLUMNS REINFORCEMENT SCHEDULE	ZI-KA/NK/04LTP/WS/S-05
06	PLINTH BEAM FRAMING PLAN AT GROUND FINISH FLOOR LEVEL +2'-0"	ZI-KA/NK/04LTP/WS/S-06
07	PLINTH BEAM REINFORCEMENT SECTION AT GROUND FINISH FLOOR LEVEL +2'-0"	ZI-KA/NK/04LTP/WS/S-07
08	BEAM FRAMING PLAN AT ROOF SLAB LEVEL +12'-6"	ZI-KA/NK/04LTP/WS/S-08
09	BEAM REINFORCEMENT SECTION AT ROOF SLAB LEVEL +12'-6"	ZI-KA/NK/04LTP/WS/S-09
10	SLAB REINFORCEMENT PLAN AT ROOF SLAB LEVEL +12'-6"	ZI-KA/NK/04LTP/WS/S-10
11	TYPICAL SECTION	ZI-KA/NK/04LTP/WS/S-11
		ZI-KA/NK/04LTP/WS/S-12

NOTES

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LEGENDS

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CLIENT:
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MINISTRY OF COMMUNICATIONS
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CONSULTANT :
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Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
04 LANE T.P WEIGH STATION
LIST OF DRAWING

DESIGN BY:	SHEET NO:
ARIF AHSAN	00 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV. 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI-KA/NK/04LTP/WS/S-00

STRUCTURAL NOTES

GENERAL

1. READ THESE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ALL RELEVANT DRAWINGS.
2. ALL LEVELS AND DIMENSIONS ARE IN METERS AND MILLIMETER UNLESS OTHERWISE NOTED.
3. DO NOT SCALE THE DRAWINGS, DIMENSIONS GIVEN ON THE DRAWING SHALL GOVERN.
4. ANY CHANGE THAT MAY AFFECT THE STRUCTURE SHOULD NOT BE MADE PRIOR TO THE APPROVAL OF STRUCTURAL DESIGN ENGINEER.

DESIGN CODES & BUILDING ZONE

1. THE BUILDING HAS BEEN DESIGNED ON THE BASIS OF THE PARAMETERS LAID DOWN IN THE DESIGN CODES ACI-318 AND UBC-97.
2. THE STRUCTURE IS DESIGNED FOR SEISMIC (ZONE – 2B) AS PER UBC-97.

FOUNDATION

1. THE DESIGN OF FOUNDATION IS BASED ON THE PARAMETERS LAID DOWN IN THE GEOTECHNICAL INVESTIGATION REPORT.
2. FOUNDATION IS DESIGNED ON BEARING CAPACITY OF 0.75 TSF. WHICH HAS BEEN ASSUMED AND SHOULD BE VERIFIED ON SITE PRIOR TO EXECUTION OF WORK.
3. FOUNDATION HAS BEEN DESIGNED FOR GROUND FLOOR AS SHOWN IN PRESENT ARCHITECTURE.ANY FURTHER CONSTRUCTION ABOVE FLOOR IS STRICTLY NOT ALLOWED.
4. ALL LOOSE/SOFT SOIL NOTICED DURING EXCAVATION SHALL BE REPLACED WITH ENGINEERED GRANULAR FILL COMPACTED TO 95% OF MAXIMUM DRY DENSITY.
5. THE FILLING SHALL BE DONE IN TWO LAYERS, EACH OF MAXIMUM 6" THICKNESS AND EACH LAYER SHALL BE COMPACTED UPTO 95% RELATIVE DENSITY.
6. PROVIDE TERMITE CONTROL TREATMENT IN THIS BUILDING.

REINFORCED CONCRETE WORKS

1. 28 – DAY COMPRESSIVE STRENGTH OF CONCRETE (CYLINDRICAL) SHOULD BE.
(a) FOR COL. = 3000 PSI.
(b) FOR FOOTING, BEAM & SLAB = 3000 PSI.

2. DEVELOPMENT LENGTH SHOULD BE FOLLOWED AS:–

NO.	BAR DIA (INCHES)	Ld (INCHES)
↓	↓	↓
1	3/8"	21"
2	1/2"	30"
3	5/8"	36"
4	3/4"	42"
5	1"	55"

REINFORCING STEEL WORKS

1. IN BEAMS, COLUMNS, FOOTINGS, WALLS AND WATER RETAINING STRUCTURES ALL REINFORCEMENT SHALL BE HIGH YIELD HOT ROLLED BILLET DEFORMED STEEL BARS CONFORMING TO ASTM A-615 GRADE 60 WITH SPECIFIED YIELD STRENGTH OF NOT LESS THEN 60,000 PSI.
2. IN SLAB ALL REINFORCEMENT SHALL BE DEFORMED STEEL BARS CONFORMING TO ASTM A-615 GRADE 60 WITH SPECIFIED YIELD STRENGTH OF NOT LESS THEN 60,000 PSI.
3. ALL DETAILING SHALL BE DONE AS PER ACI-315 AND ACI-318.
4. CONCRETE COVERS.

CONCRETE COVERS USED IN THE DESIGN ARE AS FOLLOWS:

CONCRETE CLEAR COVER SCHEDULE (INCHES)			
	CLEAR COVER TO PRIMARY SCHEDULE		
ELEMENT	SURFACE IN CONTACT WITH GROUND	ABOVE GROUND INTERIOR ENVIRONMENT	ABOVE GROUND EXTERIOR ENVIRONMENT
FOUNDATION	3"	1½"	1½"
COLUMNS / BEAM	2"	1½"	1½"
GRADE SLAB	2"	1½"	1½"
SUSPENDED SLAB	–	3/4"	1½"
EQUIPMENT	–	1½"	1½"
WATER TANK	3"	1½"	1½"

* NOTE: CLEAR COVER SHALL NOT BE LESS THAN ONE BAR DIAMETER.
5. LAP LENGTH SHOULD BE FOLLOWED AS:–

(a) 1" ø = 55" (b) 3/4" ø = 42" (c) 5/8" ø = 36" (d) 1/2" ø = 30" (e) 3/8" ø = 21"

6. ALL REINF. STEEL SHALL BE ACCURATELY LOCATED IN THE FORMS AND HELD FIRMLY IN PLACE BEFORE & DURING THE PLACING OF CONCRETE BY MEANS OF WIRE AND SUPPORTS ADEQUATE TO PREVENT DISPLACEMENT DURING THE COURSE OF CONSTRUCTION.
7. ALL LAPS IN BEAMS SHOULD BE PROVIDED AT MIDSPAN. FOR TOP BARS EXCEPT FOR FOOTING/SLAB ON GRADE.
8. ALL LAPS IN BEAMS SHOULD BE PROVIDED AT SUPPORT. FOR BOTTOM BARS EXCEPT FOR FOOTING/SLAB ON GRADE.
9. ALL LAPS IN FOOTING / SLAB ON GRADE SHOULD BE PROVIDED AT MID SPAN. (BOTTOM BARS)
10. ALL LAPS IN FOOTING / SLAB ON GRADE SHOULD BE PROVIDED AT SUPPORT. (TOP BARS)
11. FOR DUCT DIMENSION REFER TO ARCH / MEP DWGS. ALL LAPS IN SLABS SHOULD BE PROVIDED AT MIDSPAN. (TOP BARS).
12. ALL LAPS IN SLABS SHOULD BE PROVIDED AT SUPPORT. (BOTTOM BARS).
13. DISTRIBUTION REINFORCEMENT FOR SLABS

NO.	SLAB THICKNESS (Inches)	REINFORCEMENT
↓	↓	↓
1	6"	#3@9"c/c
2	7"	#3@9"c/c
3	8"	#3@9"c/c
4	10"	#3@7"c/c
5	12"	#3@9"c/c

CONCRETE CONSTRUCTION

1. AVOID STACKING OF CONSTRUCTION MATERIALS, BRICKS, BLOCKS etc. ON SLAB PANELS DURING CONSTRUCTION.
2. BEFORE CASTING OF ANY STRUCTURAL MEMBER, IT SHALL BE ENSURED THAT ALL EMBEDDED ITEMS OR OPENINGS FOR ELECTRICAL, PLUMBING, STRUCTURAL STEEL AND OTHER WORKS ARE PROPERLY LOCATED IN PLACE.

ABBREVIATION

- C = COLUMN
- F = FOOTING
- PB = PLINTH BEAM
- RB = ROOF BEAM

NOTES

- FOUNDATION IS DESIGNED ON BEARING CAPACITY OF 0.75 TSF WHICH HAS BEEN ASSUMED AND SHOULD BE VERIFIED ON SITE PRIOR TO EXECUTION OF WORK.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

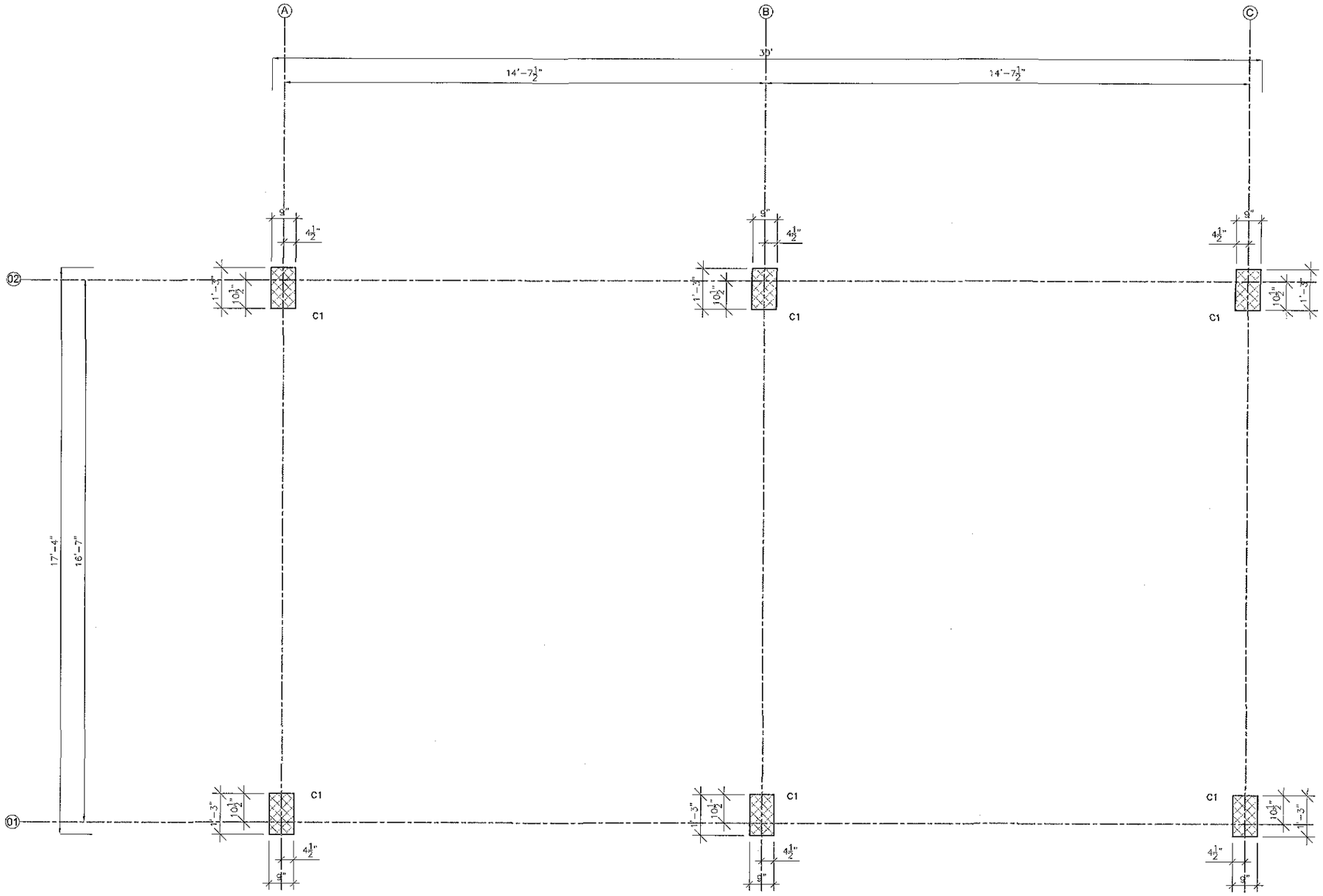
CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL (PVT) LTD.
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
04 LANE T.P WEIGH STATION
GENERAL NOTES

DESIGN BY:	SHEET NO:
ARIF AHSAN	01 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV, 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI-KA/NK/04LTP/WS/S-01



COLUMNS LAYOUT PLAN
AT N.S. LEVEL -3'-6"

NOTES

- FOUNDATION IS DESIGNED ON BEARING CAPACITY OF 0.75 TSF WHICH HAS BEEN ASSUMED AND SHOULD BE VERIFIED ON SITE PRIOR TO EXECUTION OF WORK.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

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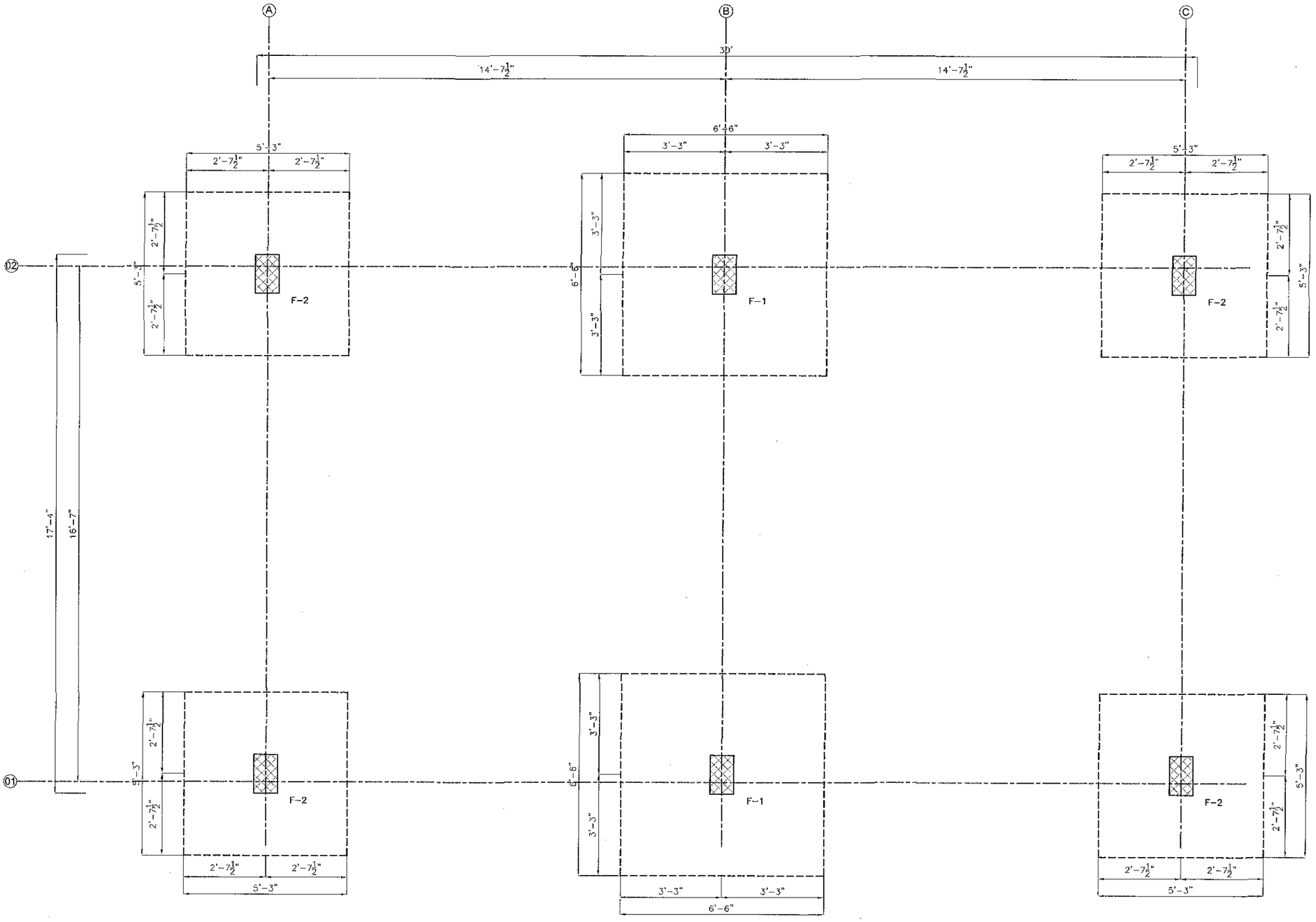
IN ASSOCIATION WITH:
KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
04 LANE T.P WEIGH STATION
COLUMNS LAYOUT PLAN
AT N.S.LEVEL -3'-6"

DESIGN BY:	SHEET NO:
ARIF AHSAN	02 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV, 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI-KA/NK/04LTP/WS/S-02



COLUMNS FOUNDATION LAYOUT PLAN
AT N.S. LEVEL -3'-6"

NOTES
- FOUNDATION IS DESIGNED ON BEARING CAPACITY OF 0.75 TSF WHICH HAS BEEN ASSUMED AND SHOULD BE VERIFIED ON SITE PRIOR TO EXECUTION OF WORK.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

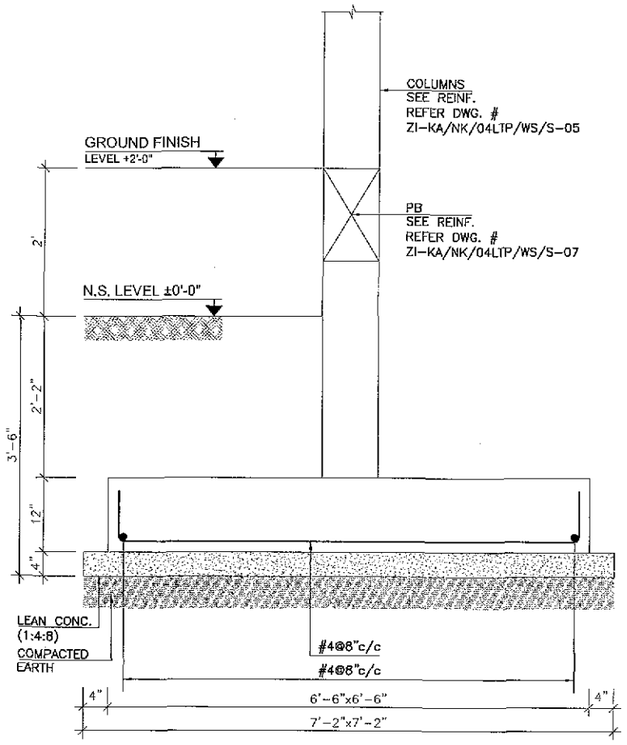
CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIR ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

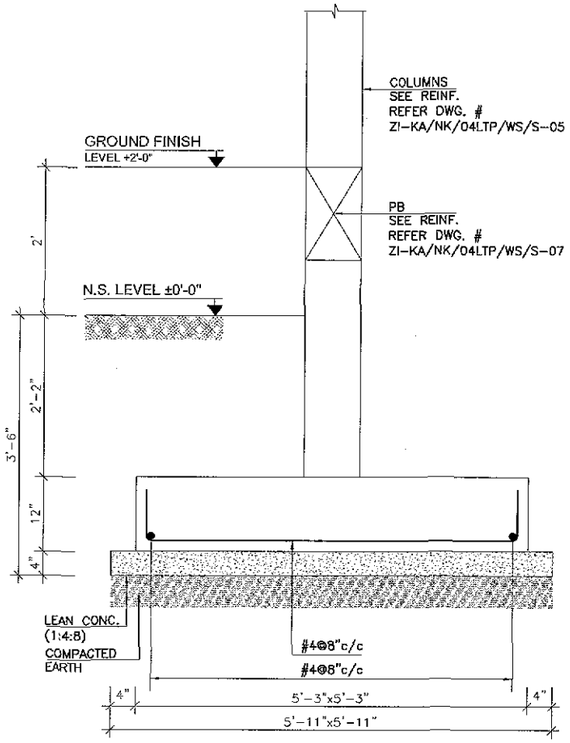
DRAWING TITLE:
04 LANE T.P WEIGH STATION
COLUMNS FOUNDATION PLAN
AT N.S.LEVEL -3'-6"

DESIGN BY:	SHEET NO:
ARIF AHSAN	03 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV, 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

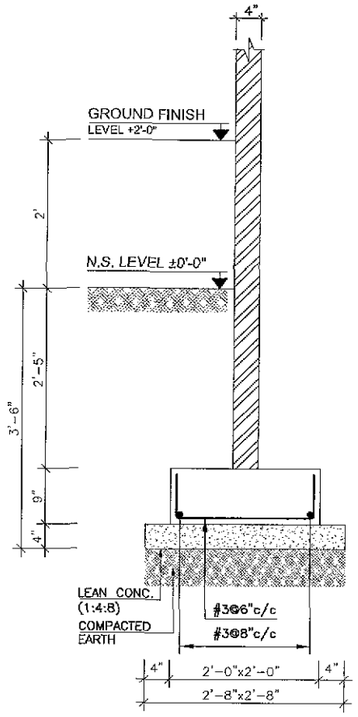
CAD FILE NAME:
ZI-KA/NK/04LTP/WS/S-03



F-1 (ISOLATED FOOTING)



F-2 (ISOLATED FOOTING)



SECTION OF 4" WALL

NOTES

- FOUNDATION IS DESIGNED ON BEARING CAPACITY OF 0.75 TSF WHICH HAS BEEN ASSUMED AND SHOULD BE VERIFIED ON SITE PRIOR TO EXECUTION OF WORK.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT:

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH:

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

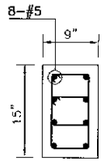
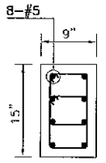
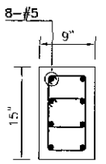
04 LANE T.P WEIGH STATION
COLUMNS FOOTING SECTION
AT N.S.LEVEL -3'-6"

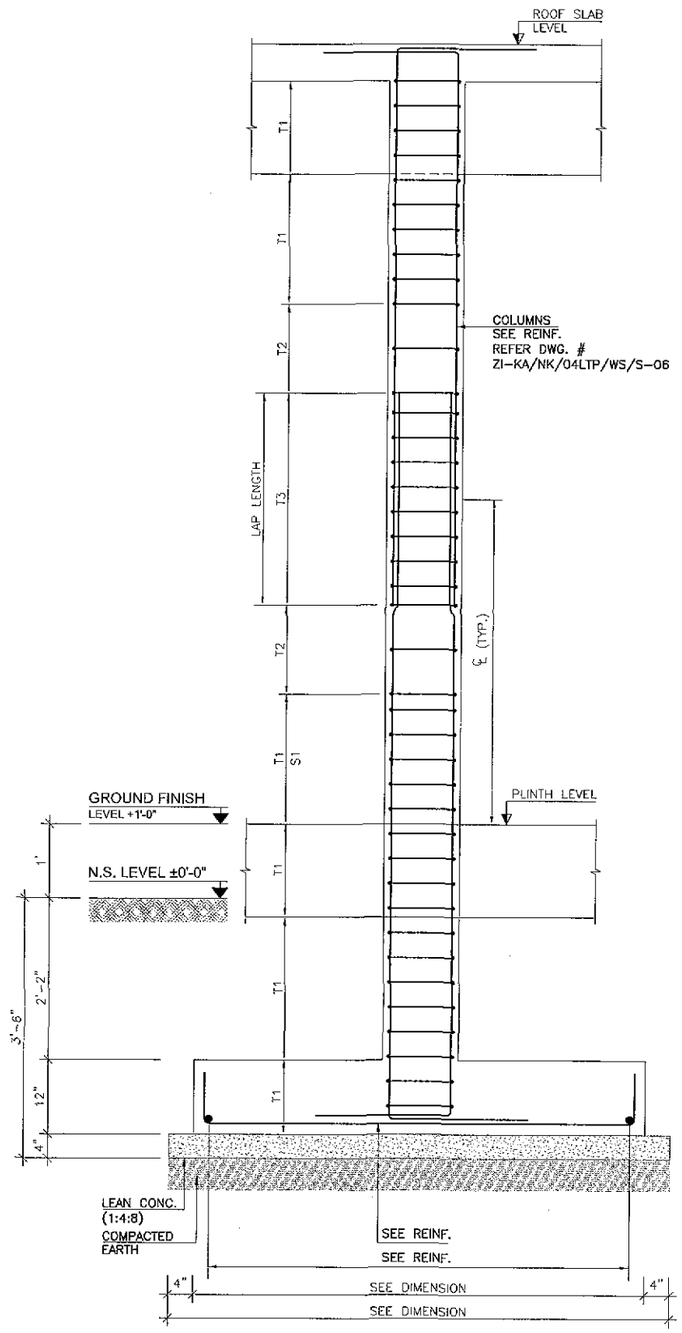
DESIGN BY:	SHEET NO:
ARIF AHSAN	04 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV. 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:

ZI-KA/NK/04LTP/WS/S-04

COLUMNS REINFORCEMENT SCHEDULE

ELEVATION \ MARK	C1	- - - - -	
- - - - -	- - - - -	- - - - -	- - - - -
ROOF SLAB LEVEL +12'-6"		- - - - -	- - - - -
GROUND FINISH FLOOR LEVEL +2'-0"		- - - - -	- - - - -
COLUMNS FOOTING LEVEL -3'-6"		- - - - -	- - - - -
TIES (AT EDGES UPTO S1) T1	#3@4"c/c	- - - - -	- - - - -
TIES T2	#3@6"c/c	- - - - -	- - - - -
TIES (AT LAP) T3	#3@4"c/c	- - - - -	- - - - -



TYPICAL COLUMNS ELEVATION

NOTES

- FOUNDATION IS DESIGNED ON BEARING CAPACITY OF 0.75 TSF WHICH HAS BEEN ASSUMED AND SHOULD BE VERIFIED ON SITE PRIOR TO EXECUTION OF WORK.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZFERUK INTERNATIONAL (PVT) LTD
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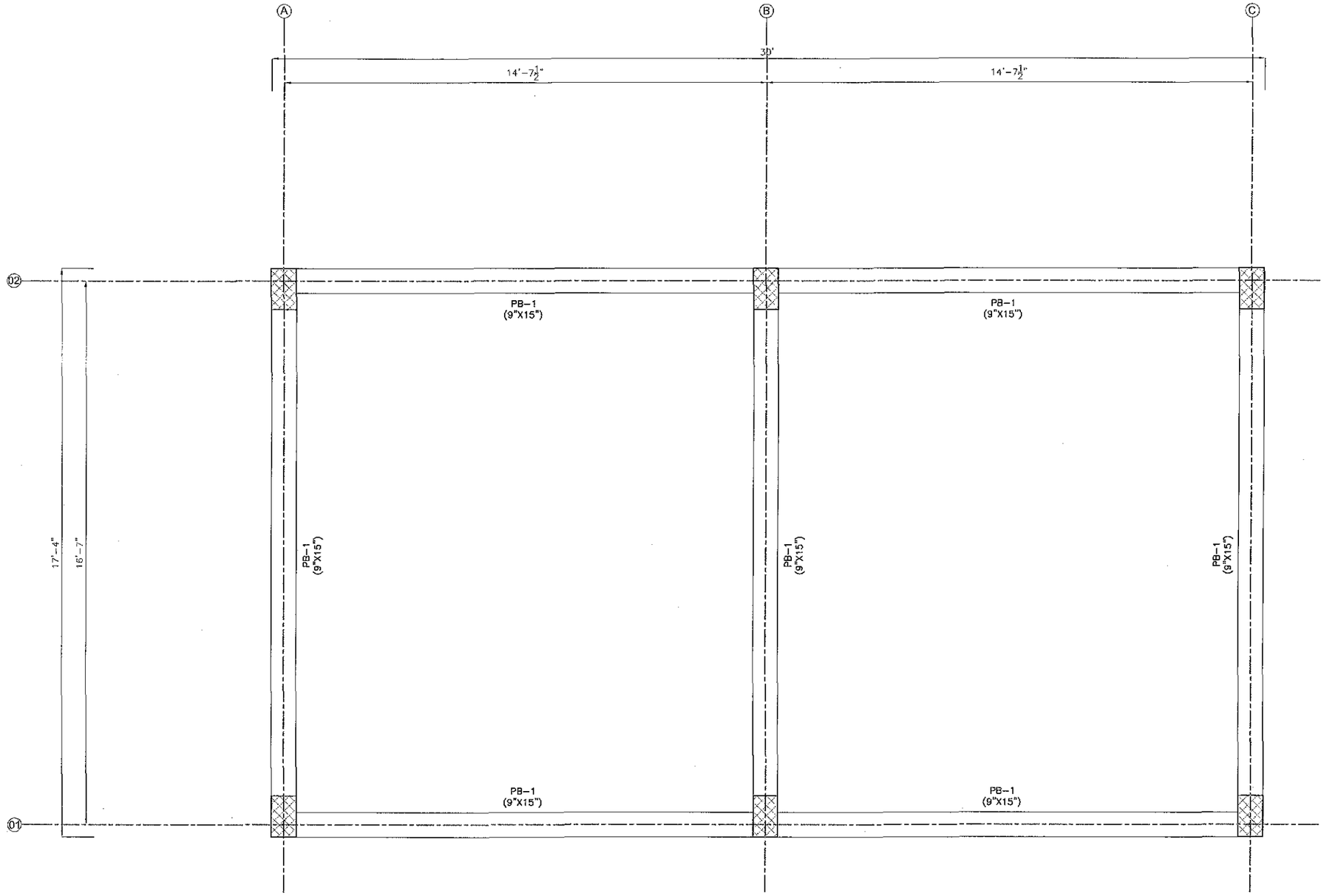
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
04 LANE T.P WEIGH STATION
COLUMNS
REINFORCEMENT SCHEDULE

DESIGN BY:	SHEET NO:
ARIF AHSAN	05 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV. 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI-KA/NK/04LTP/WS/S-05



PLINTH BEAM FRAMING DETAIL PLAN
AT GROUND FINISH FLOOR LEVEL +2'-0"

NOTES

- FOUNDATION IS DESIGNED ON BEARING CAPACITY OF 0.75 TSF WHICH HAS BEEN ASSUMED AND SHOULD BE VERIFIED ON SITE PRIOR TO EXECUTION OF WORK.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASJIKHEL

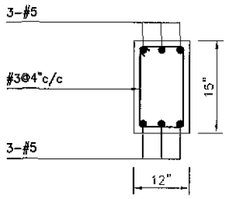
CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

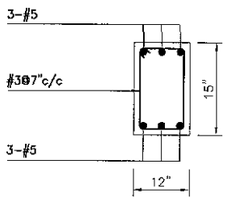
DRAWING TITLE:
04 LANE T.P WEIGH STATION
PLINTH BEAM FRAMING PLAN
AT GROUND FINISH FLOOR
LEVEL +2'-0"

DESIGN BY:	SHEET NO:
ARIF AHSAN	06 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV, 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

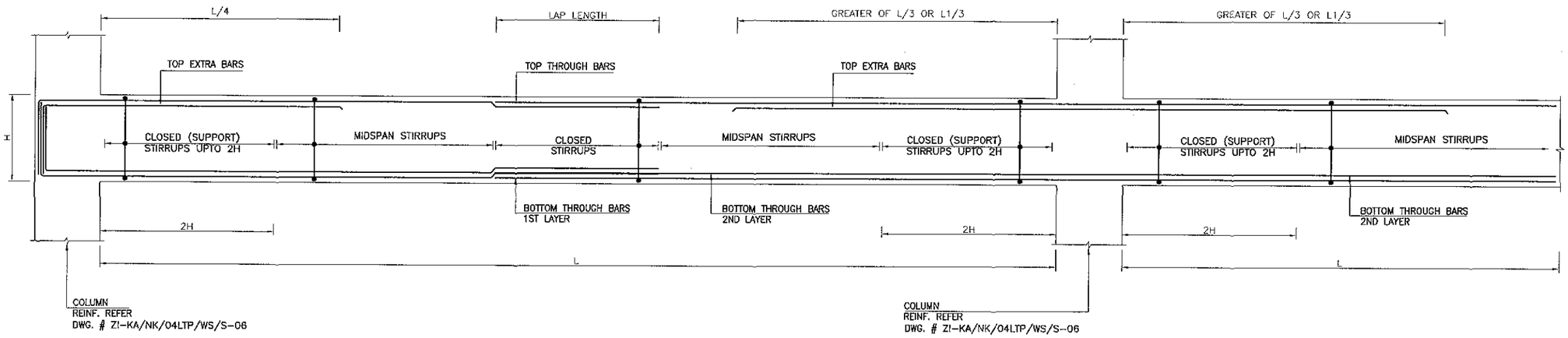
CAD FILE NAME:
ZI-KA/NK/04LTP/WS/S-06



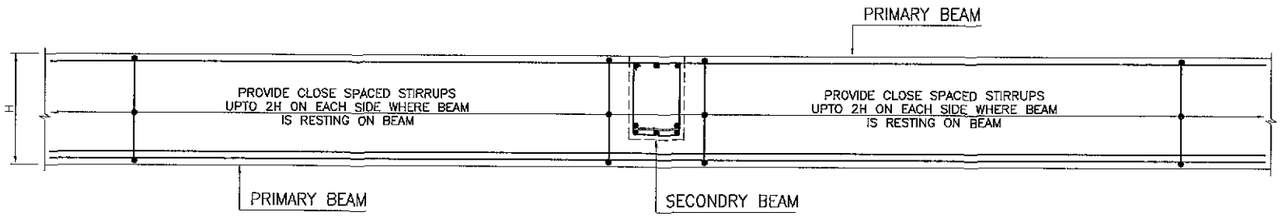
PB-1
SUPPORT
(9"x15")



PB-1
MID SPAN
(9"x15")



TYPICAL PLINTH BEAM ELEVATION
TYP.. JOINT DETAIL



PLINTH BEAM TO PLINTH BEAM
TYP. CONNECTION DETAIL

NOTES

- FOUNDATION IS DESIGNED ON BEARING CAPACITY OF 0.75 TSF WHICH HAS BEEN ASSUMED AND SHOULD BE VERIFIED ON SITE PRIOR TO EXECUTION OF WORK.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

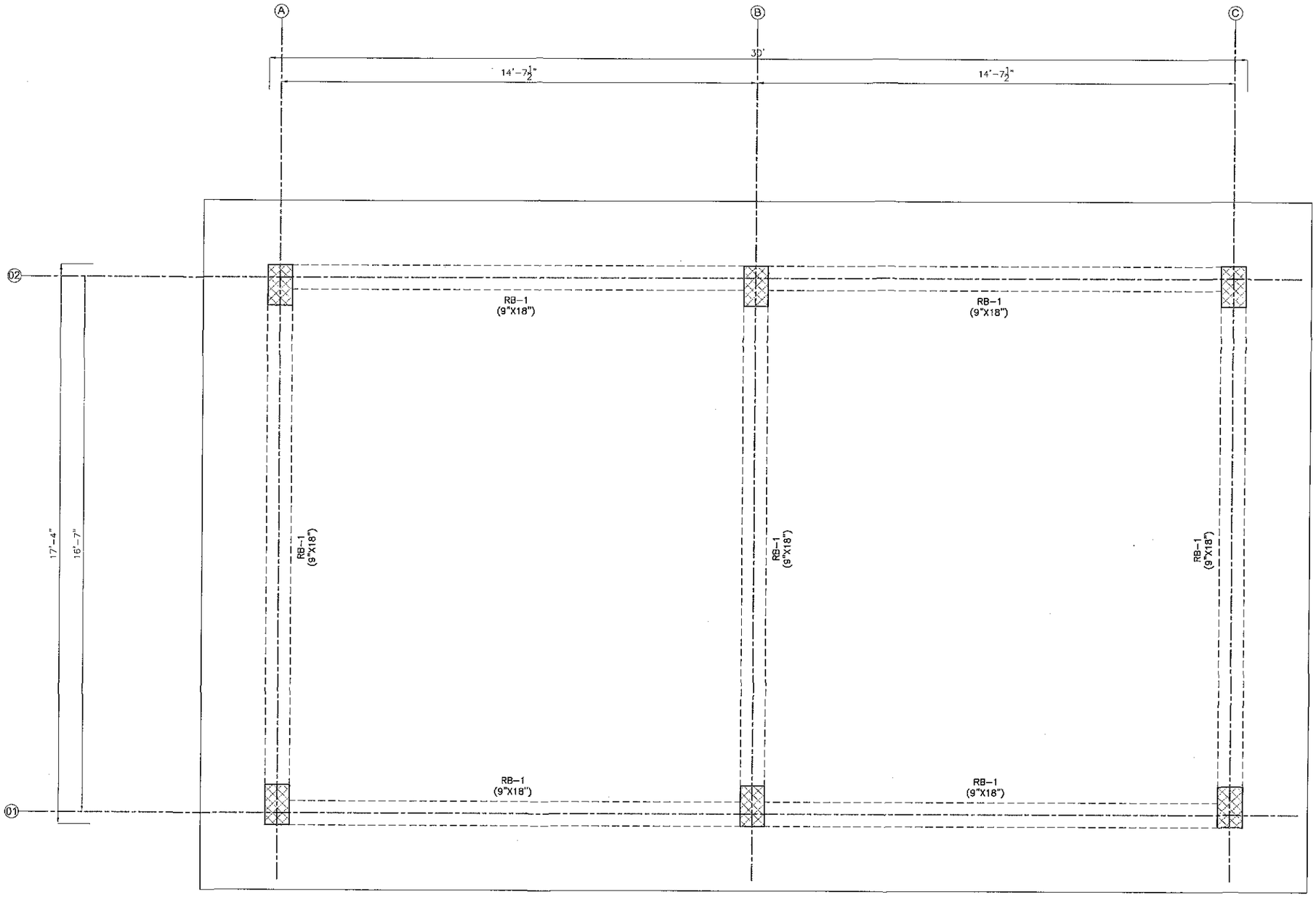
CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
04 LANE T.P WEIGH STATION PLINTH BEAM REINF. SECTION AT GROUND FINISH LEVEL +2'-0"

DESIGN BY:	SHEET NO:
ARIF AHSAN	07 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV. 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI-KA/NK/04LTP/WS/S-07



BEAM FRAMING DETAIL PLAN
AT ROOF SLAB LEVEL +12'-6"

NOTES

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LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
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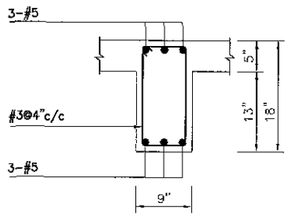
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

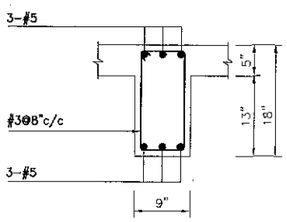
DRAWING TITLE:
04 LANE T.P WEIGH STATION
BEAM FRAMING PLAN
AT ROOF SLAB LEVEL +12'-6"

DESIGN BY: ARIF AHSAN	SHEET NO: 08 TO 11
DRAWN BY: ARS	SCALE: N.T.S
CHECKED BY: KASHIF	DATE: NOV, 2020
APPROVED BY: INAM MINHAS	REVISION: REV. 00

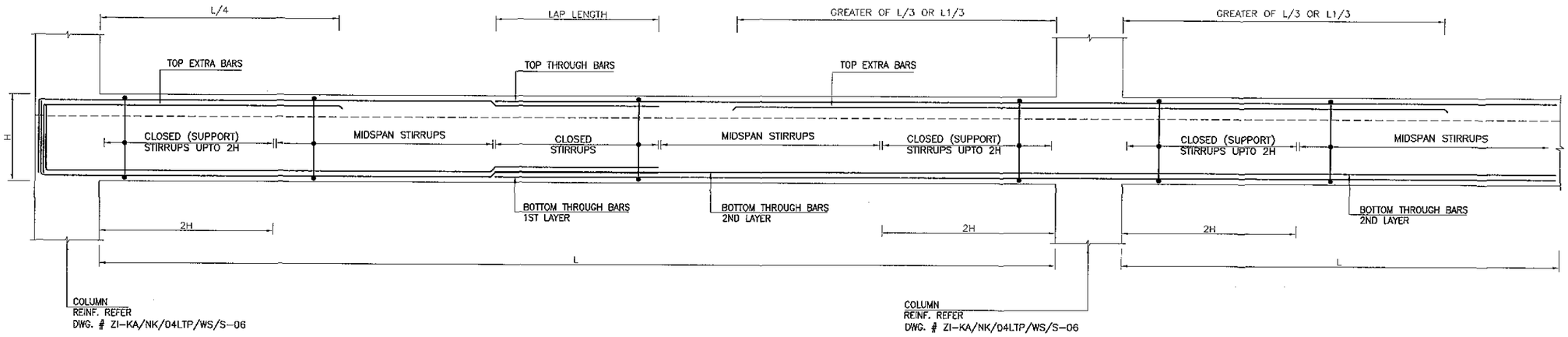
CAD FILE NAME:
ZI-KA/NK/04LTP/WS/S-08



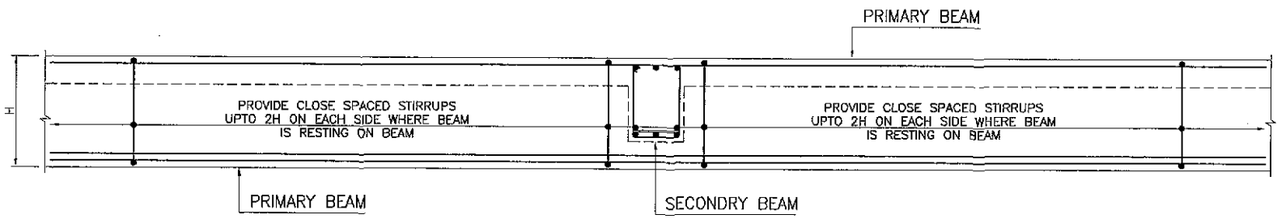
RB-1
SUPPORT
(9"x18")



RB-1
MID SPAN
(9"x18")



TYPICAL BEAM ELEVATION
TYP.. JOINT DETAIL



BEAM TO BEAM
TYP. CONNECTION DETAIL

NOTES

- FOUNDATION IS DESIGNED ON BEARING CAPACITY OF 0.75 TSF WHICH HAS BEEN ASSUMED AND SHOULD BE VERIFIED ON SITE PRIOR TO EXECUTION OF WORK.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEFRUK INTERNATIONAL (PVT) LTD
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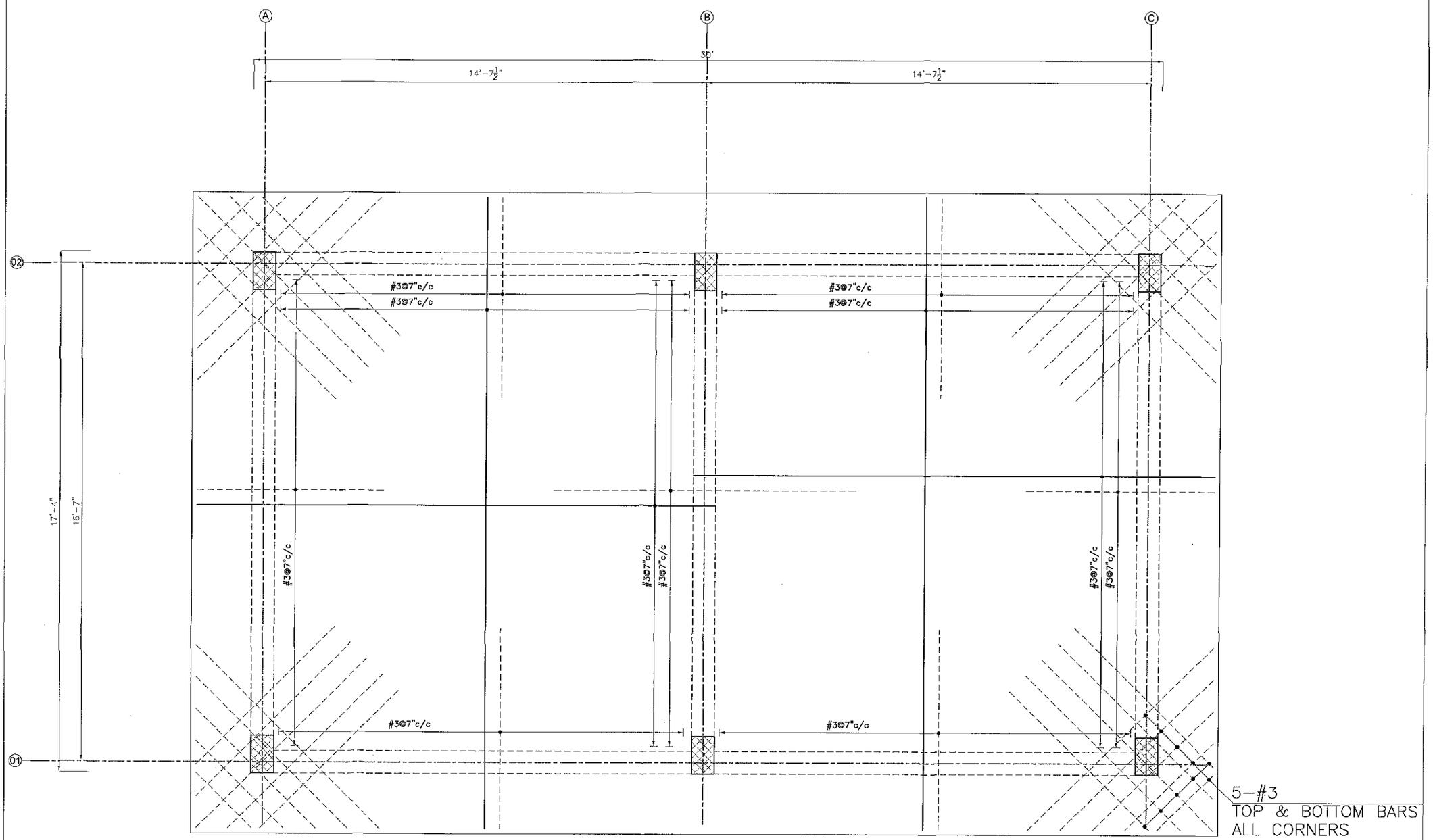
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
04 LANE T.P WEIGH STATION
BEAM REINFORCEMENT SECTION
AT ROOF SLAB LEVEL +12'-6"

DESIGN BY:	SHEET NO:
ARIF AHSAN	09 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV. 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI-KA/NK/04LTP/WS/S-09



SLAB REINFORCEMENT DETAIL PLAN

AT ROOF SLAB LEVEL +12'-6"

SLAB THICKNESS 5" UNLESS NOTED OTHERWISE

NOTES

- FOUNDATION IS DESIGNED ON BEARING CAPACITY OF 0.75 TSF WHICH HAS BEEN ASSUMED AND SHOULD BE VERIFIED ON SITE PRIOR TO EXECUTION OF WORK.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

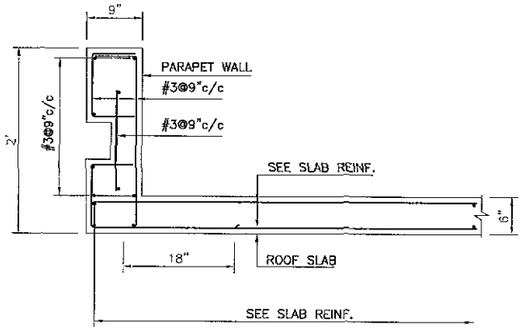
DRAWING TITLE:

04 LANE T.P WEIGH STATION
SLAB REINFORCEMENT PLAN
AT ROOF SLAB LEVEL +12'-6"

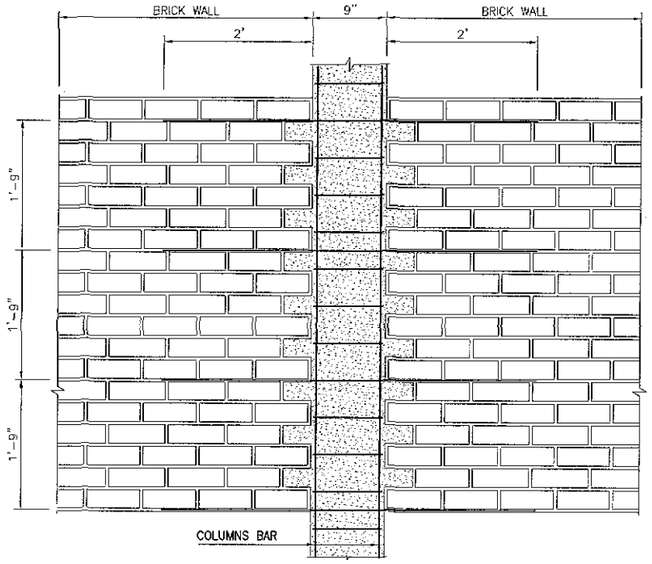
DESIGN BY: ARIF AHSAN	SHEET NO: 10 TO 11
DRAWN BY: ARS	SCALE: N.T.S
CHECKED BY: KASHIF	DATE: NOV. 2020
APPROVED BY: INAM MINHAS	REVISION: REV. 00

CAD FILE NAME:

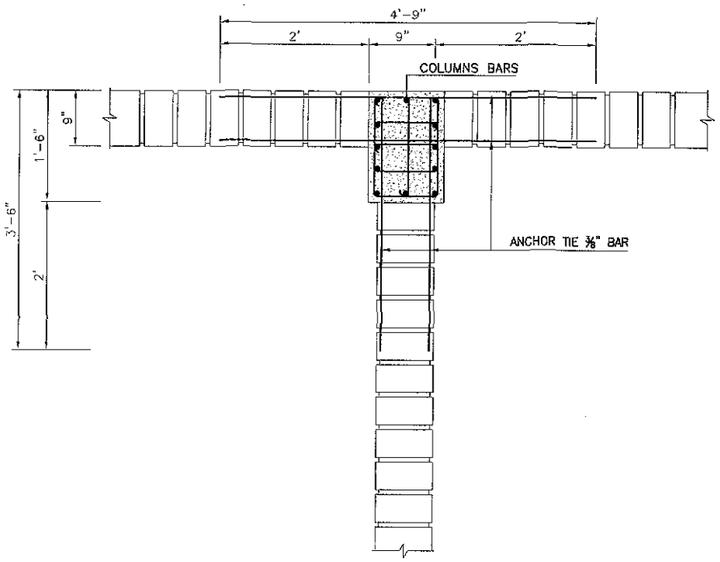
ZI-KA/NK/04LTP/WS/S-10



TYPICAL DETAIL OF PARAPET



TYPICAL ELEVATION
WALL & COLUMNS ANCHOR ELEVATION



TYPICAL DETAIL T-JOINT
PLAN OF T-JOINT

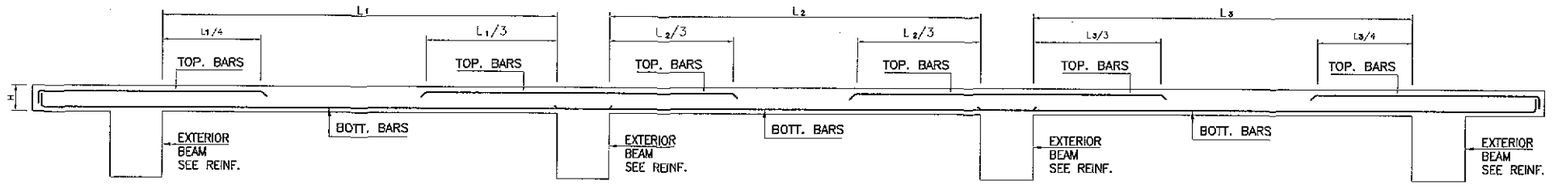
LINTEL BEAM REINFORCEMENT

LINTEL BEAM REINFORCEMENT SCHEDULE

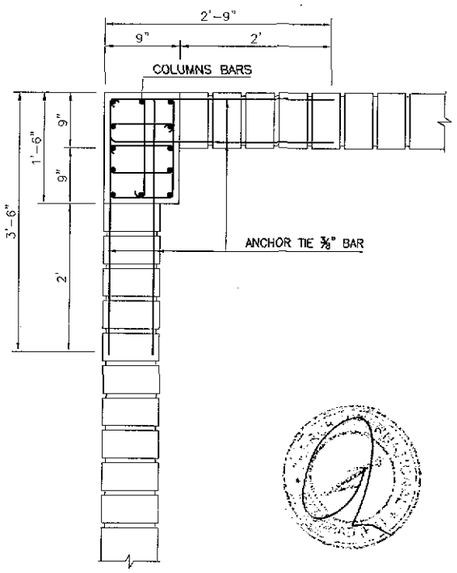
NO.	WIDTH OF OPENING	b" x h"	BOTTOM STEEL	TOP STEEL	TIES
01	4'-0"	b x 6"	3 # 4	2 # 4	#3@8"c/c
02	6'-0"	b x 6"	3 # 4	2 # 4	#3@8"c/c
03	8'-0"	b x 8"	3 # 4	2 # 4	#3@8"c/c
04	10'-0"	b x 8"	3 # 4	2 # 4	#3@8"c/c
05	12'-0"	b x 12"	3 # 5	2 # 4	#3@8"c/c
06	14'-0"	b x 12"	3 # 5	2 # 4	#3@8"c/c

NOTE:-

(1) b VARIES ACCORDING TO THE THICKNESS OF WALL



TYPICAL BARS CUTTOFF DETAILS FOR SLAB
NOTE: 1L2L > 3L > L



TYPICAL DETAIL CORNER JOINT
PLAN OF CORNER JOINT

NOTES
- FOUNDATION IS DESIGNED ON BEARING CAPACITY OF 0.75 TSF WHICH HAS BEEN ASSUMED AND SHOULD BE VERIFIED ON SITE PRIOR TO EXECUTION OF WORK.

LEGENDS

REV.	REVISION/ISSUE	DATE

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT:
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
04 LANE T.P WEIGH STATION
TYPICAL SECTION

DESIGN BY:	SHEET NO:
ARIF AHSAN	11 TO 11
DRAWN BY:	SCALE:
ARS	N.T.S
CHECKED BY:	DATE:
KASHIF	NOV. 2020
APPROVED BY:	REVISION:
INAM MINHAS	REV. 00

CAD FILE NAME:
ZI-KA/NK/04LTP/WS/S-11

ELECTRICAL DRAWINGS
06 - LANE TOLL PLAZA
NAUKANDI MASHKHEL

LIST OF DRAWINGS

SERIAL NO.	DRAWING TITLE	CAD FILE NAME
01	LIST OF DRAWINGS	ZI / KA / NK / TP - EL - - 01
02	ELECTRICAL LEGENDS AND GENERAL NOTES	ZI / KA / NK / TP - EL - - 02
03	LAYOUT OF TRENCH AND HOLES	ZI / KA / NK / TP - EL - - 03
04	LAYOUT OF CANOPY LIGHT	ZI / KA / NK / TP - EL - - 04
05	TRAFFIC SIGNAL LIGHT & BOOTH DETAILS	ZI / KA / NK / TP - EL - - 05
06	SINGLE LINE DIAGRAM FOR POWER DISTRIBUTION	ZI / KA / NK / TP - EL - - 06
07	DETAIL OF MANHOLE, TRENCH & EARTHING DETAIL FOR TRANSFORMER	ZI / KA / NK / TP - EL - - 07
08	LIGHTING AND POWER LAYOUT OF GENERATOR ROOM	ZI / KA / NK / TP - EL - - 08
09	LIGHTING AND POWER LAYOUT OF WEIGH STATION	ZI / KA / NK / TP - EL - - 09
10	LIGHTING LAYOUT OF STAFF BUILDING	ZI / KA / NK / TP - EL - - 10
11	POWER LAYOUT OF STAFF BUILDING	ZI / KA / NK / TP - EL - - 11
12	SINGLE LINE DIAGRAM FOR POWER DISTRIBUTION - STAFF BUILDING	ZI / KA / NK / TP - EL - - 12

NOTES

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

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IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
LIST OF DRAWINGS
TOLL PLAZA

DESIGN BY: SOHAIL MALIK	SHEET NO: 01 OF 12
DRAWN BY: SOHAIL MALIK	SCALE: N.T.S
CHECKED BY: FAHIM A KHAN	DATE: DEC, 2020
APPROVED BY: FAHIM A KHAN	REVISION: REV. 00

CAD FILE NAME:
ZI / KA / NK / TP - EL - -01

ELECTRICAL LEGENDS

S.No.	SYMBOL	DESCRIPTION	TYPE	MOUNTING
01		LED OUTDOOR WEATHER PROOF LIGHT "IP 65"	1 x 35W	2100mm AFFL
02		LED DOWN LIGHT FIXTURE "IP 20"	1 x 9W	CEILING
03		LED DOWN LIGHT FIXTURE WITH GLASS COVER "IP 49"	1 x 7W	CEILING
04		HIGHBAY HALOGEN LIGHT "IP 65"	1 x 150W	CEILING
05		EMERGENCY LIGHT "IP 24"	1 x 5W	CEILING
06		WARM UP LIGHT WITH CORD SWITCH "IP 44"	1 x 9W	ABOVE LOOKING MIRROR
07		HIGHBAY LIGHT	1 x 150W	2400mm AFFL
08		LED ROAD LIGHT	1 x 120W	
09		CIRCUIT BREAKERS (MCCB,MCB/ACB)	ABB/SCHNEIDER	IN DB'S/PANEL
10		SWITCH BOARD	AS APPROVED	1350mm AFFL
11		EARTH PIT " 50 mm DIA GI PIPE FOR EARTH ELECTRODE" (4Nos X 2MMTR COPPER ROD FOR EARTHING)	COPPER ROD	NATURAL GROUND
12		5 AMP SWITCH SOCKET	AS APPROVED	150mm AFFL
13		13 AMP SWITCH SOCKET	DUPLEX	150mm AFFL
14		20A S-P-N SWITCH SOCKET OUTLET (AC)	ABB/SCHNEIDER	2100mm AFFL
15		EXHAUST FAN (8" dia / 12" dia)	AS APPROVED	2400mm AFFL
16		DISTRIBUTION BOARD	AS APPROVED	1350mm AFFL
17		UPVC PIPE	CLASS "D"	UNDER GROUND
18	A	AMPERE METER	AS APPROVED	IN DB'S/PANEL
19	V	VOLT METER	AS APPROVED	IN DB'S/PANEL
20	AS	AMPERE SELECTOR SWITCH	AS APPROVED	IN DB'S/PANEL
21	VS	VOLTAGE SELECTOR SWITCH	AS APPROVED	IN DB'S/PANEL
22	M	MANHOLE (3' x 3' x 3')		AS SHOWN
23		CEILING FAN (56" SWEEP)	AS APPROVED	CEILING
24		ENERGY METER		

NOTES

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

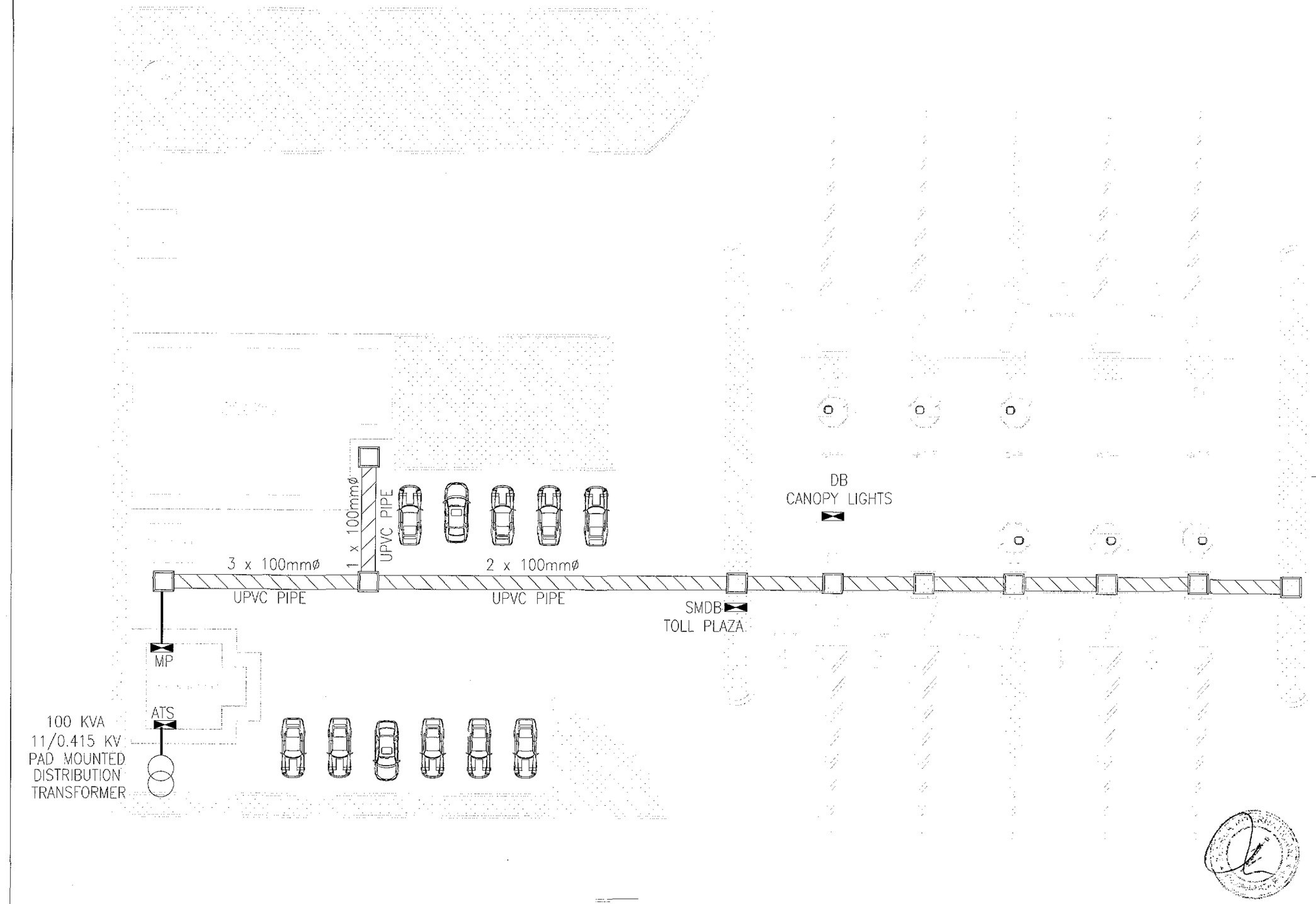
DRAWING TITLE:

ELECTRICAL LEGENDS
TOLL PLAZA

DESIGN BY:	SHEET NO:
SOHAIL MALIK	02 OF 12
DRAWN BY:	SCALE:
SOHAIL MALIK	N.T.S
CHECKED BY:	DATE:
FAHIM A KHAN	DEC. 2020
APPROVED BY:	REVISION:
FAHIM A KHAN	REV. 00

CAD FILE NAME:

ZI / KA / NK / TP - EL - -02



NOTES

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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I-8 Markaz, Islamabad.
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IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER, CONSULTANT
& ARCHITECTS.

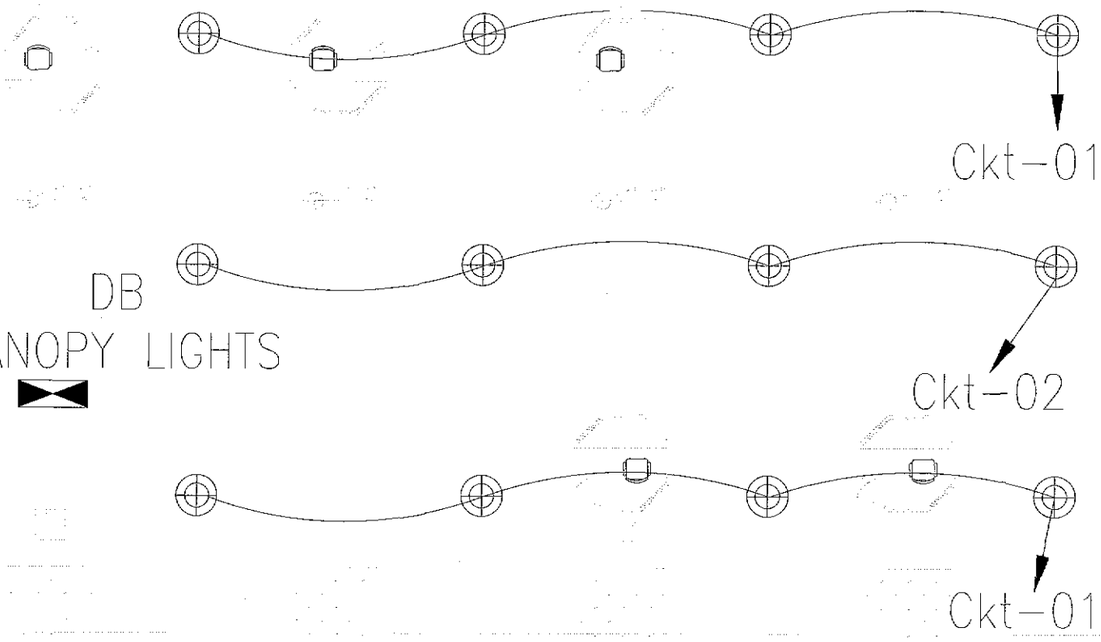
DRAWING TITLE:

CABLE TRENCH LAYOUT
TOLL PLAZA

DESIGN BY:	SHEET NO:
SOHAIL MALIK	03 OF 12
DRAWN BY:	SCALE:
SOHAIL MALIK	N.T.S
CHECKED BY:	DATE:
FAHIM A KHAN	DEC, 2020
APPROVED BY:	REVISION:
FAHIM A KHAN	REV. 00

CAD FILE NAME:

ZI / KA / NK / TP - EL - -03



NOTES

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
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00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

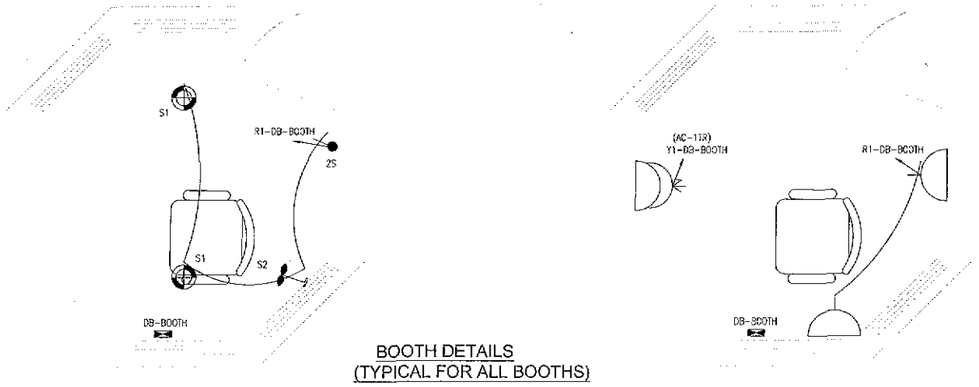
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

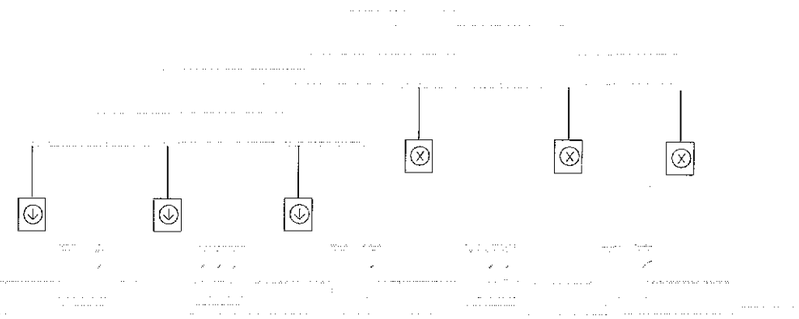
CANOPY LIGHTS
TOLL PLAZA

DESIGN BY:	SHEET NO:
SOHAIL MALIK	04 OF 12
DRAWN BY:	SCALE:
SOHAIL MALIK	N.T.S
CHECKED BY:	DATE:
FAHIM A KHAN	DEC. 2020
APPROVED BY:	REVISION:
FAHIM A KHAN	REV. 00

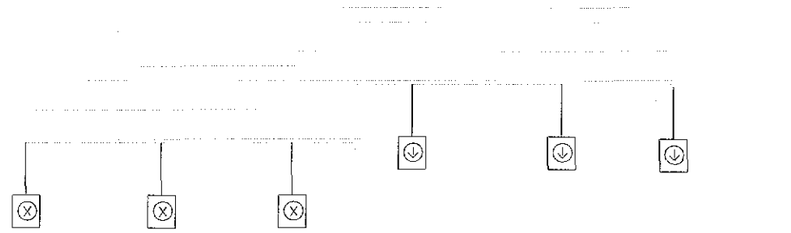
CAD FILE NAME:
ZI / KA / NK / TP - EL - -04



BOOTH DETAILS
(TYPICAL FOR ALL BOOTHS)



LAYOUT OF TRAFFIC SIGNAL LIGHTS (NAUKANDI DIRECTION)



LAYOUT OF TRAFFIC SIGNAL LIGHTS (MASHKHEL DIRECTION)

NOTES

LEGEND

ABBREVIATIONS

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PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :
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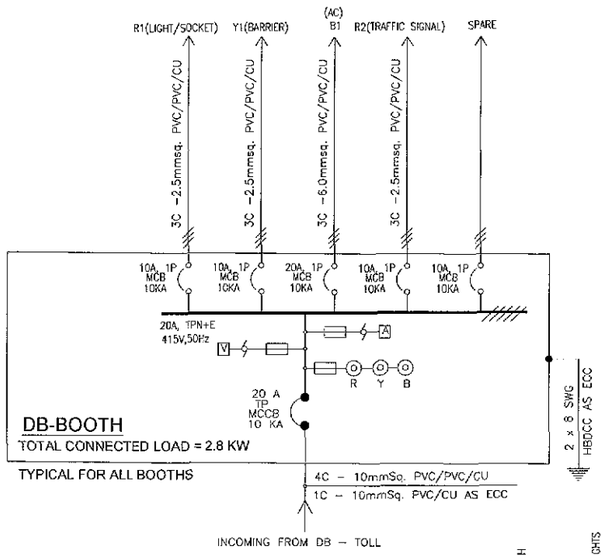
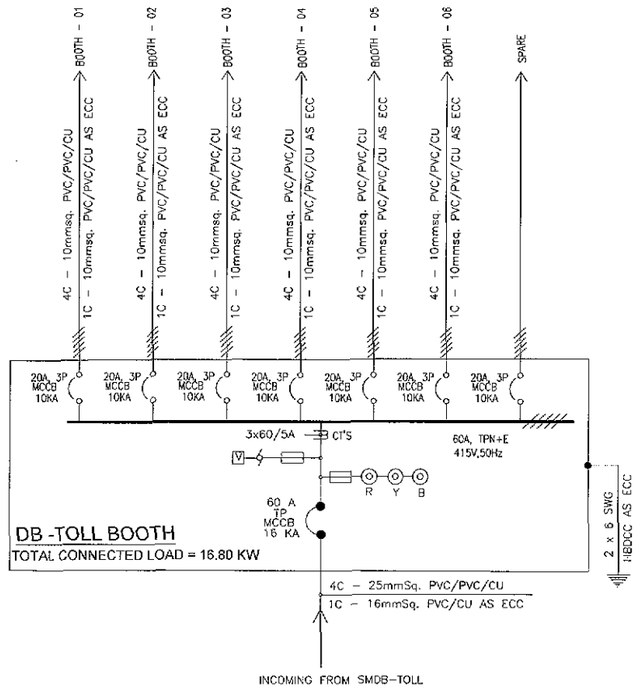
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

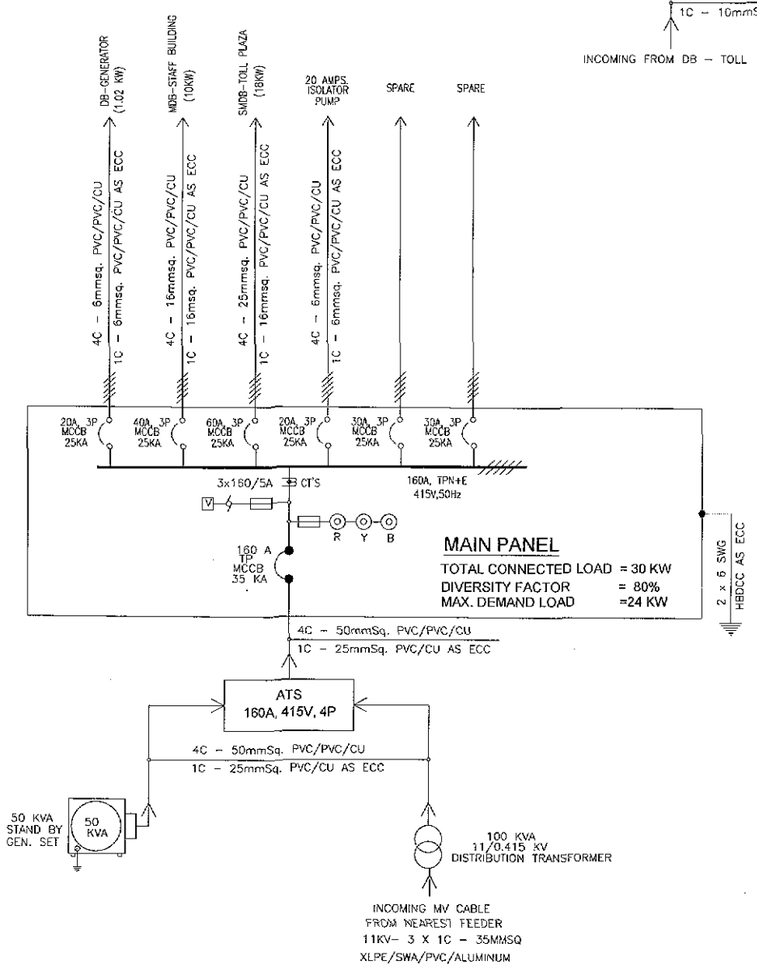
DRAWING TITLE:
LAYOUT OF TRAFFIC SIGNAL LIGHT & TOLL BOOTH
TOLL PLAZA

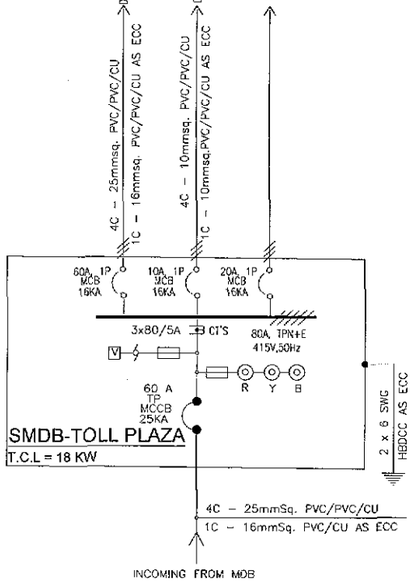
DESIGN BY: SOHAIL MALIK	SHEET NO: 05 OF 12
DRAWN BY: SOHAIL MALIK	SCALE: N.T.S
CHECKED BY: FAHIM A KHAN	DATE: DEC, 2020
APPROVED BY: FAHIM A KHAN	REVISION: REV. 00

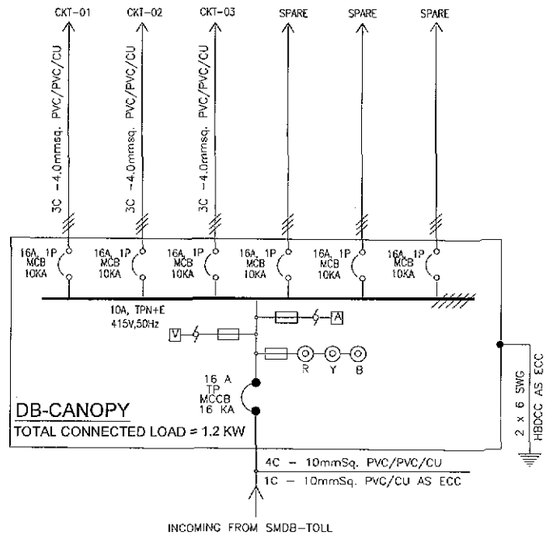
CAD FILE NAME:
ZI / KA / NK / TP - EL - -05











NOTES

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

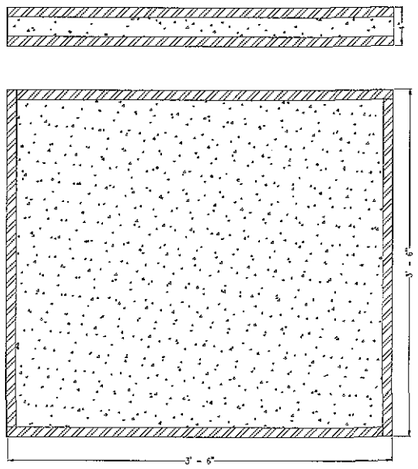
DRAWING TITLE:

SINGLE LINE DIAGRAM FOR POWER DISTRIBUTION
TOLL PLAZA

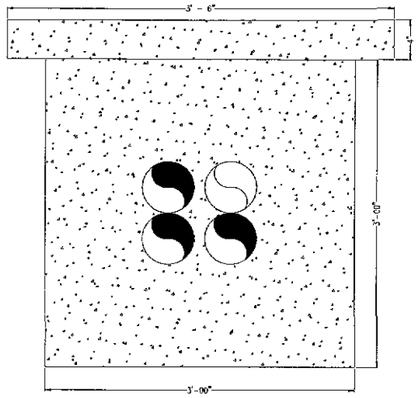
DESIGN BY: SOHAIL MALIK	SHEET NO: 06 OF 12
DRAWN BY: SOHAIL MALIK	SCALE: N.T.S
CHECKED BY: FAHIM A KHAN	DATE: DEC, 2020
APPROVED BY: FAHIM A KHAN	REVISION: REV. 00

CAD FILE NAME:

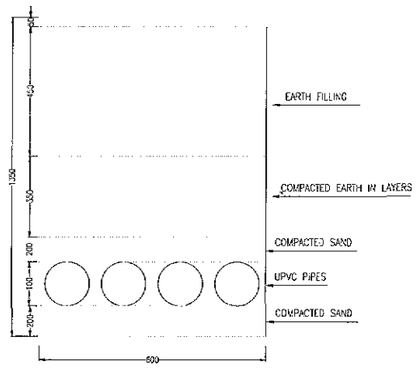
ZI / KA / NK / TP - EL - -06



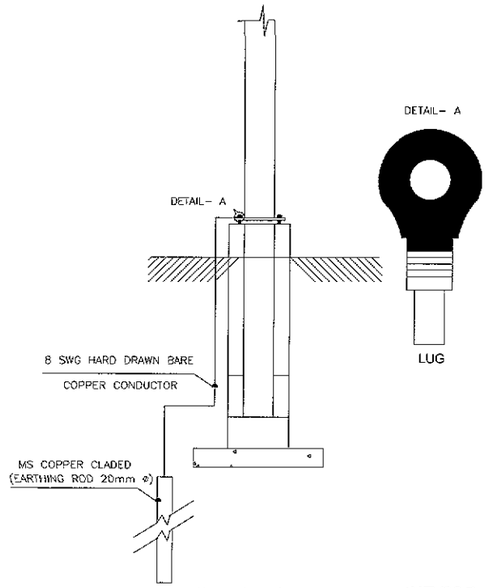
DETAIL OF MAIN HOLE COVER



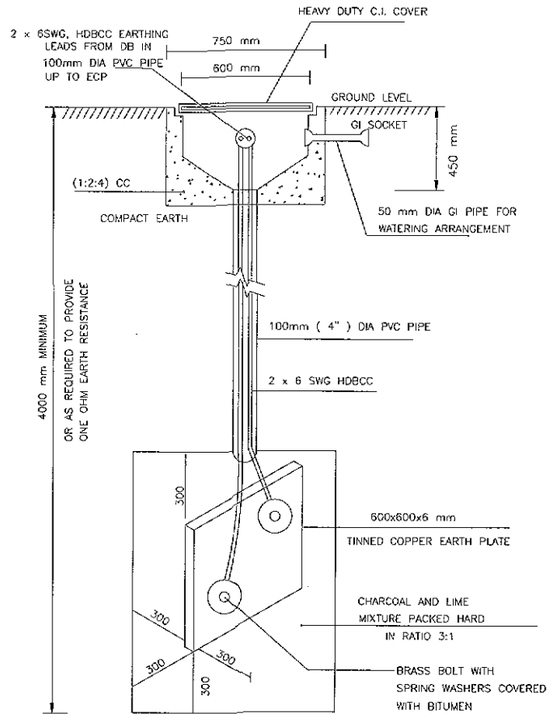
DETAIL OF MAIN HOLE



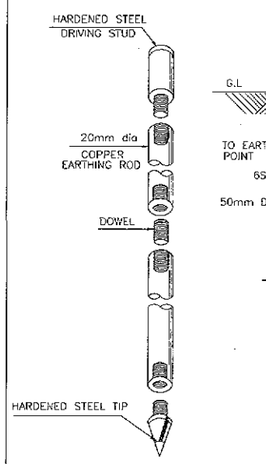
TRENCH DETAIL

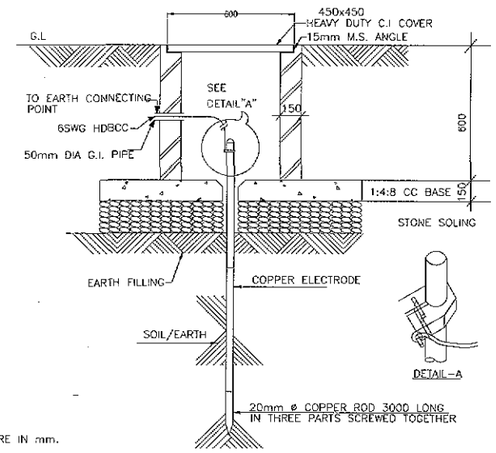


EARTHING ARRANGEMENT FOR
STREET LIGHTING POLE



EARTH ELECTRODE DETAIL
FOR TRANSFORMER & GENERATOR





EARTHING ELECTRODE DETAIL
(FOR STREET LIGHTING POLE)

NOTES

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
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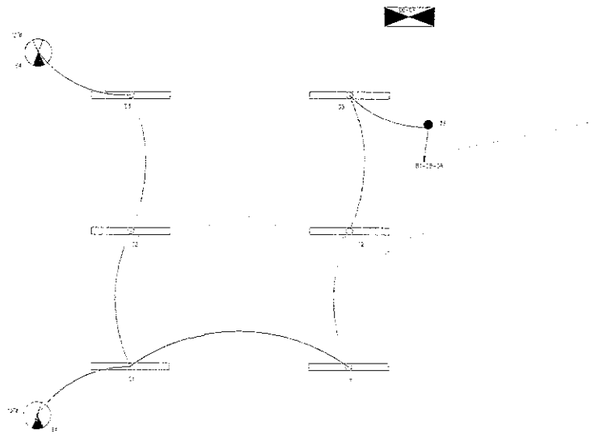
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:
TYPICAL DETAILS
TOLL PLAZA

DESIGN BY:	SHEET NO:
SOHAIL MALIK	07 OF 12
DRAWN BY: SOHAIL MALIK	SCALE: N.T.S
CHECKED BY: FAHIM A KHAN	DATE: DEC, 2020
APPROVED BY: FAHIM A KHAN	REVISION: REV. 00

CAD FILE NAME:
ZI / KA / NK / TP - EL - -07

ELECTRICAL DRAWINGS
GENERATOR ROOM
NAUKANDI MASHKHEL



LIGHTING LAYOUT

POWER LAYOUT

NOTES

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

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IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

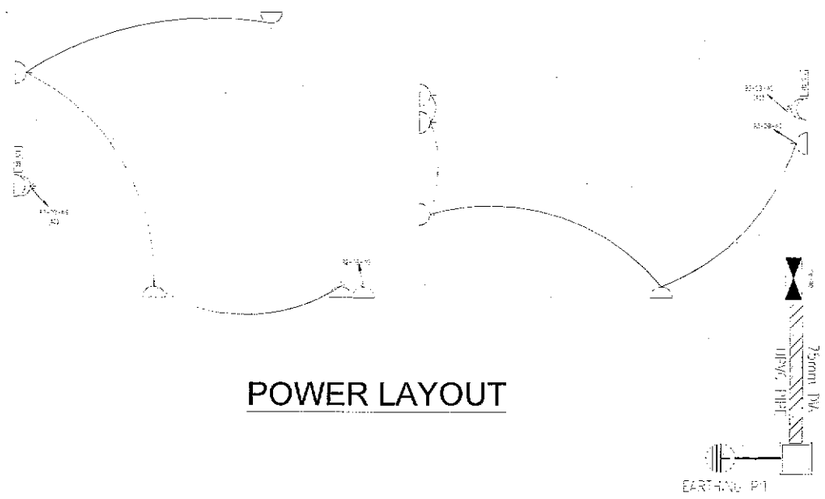
LIGHT AND POWER LAYOUT
GENERATOR ROOM
TOLL PLAZA

DESIGN BY:	SHEET NO:
SOHAIL MALIK	08 OF 12
DRAWN BY:	SCALE:
SOHAIL MALIK	N.T.S
CHECKED BY:	DATE:
FAHIM A KHAN	DEC. 2020
APPROVED BY:	REVISION:
FAHIM A KHAN	REV. 00

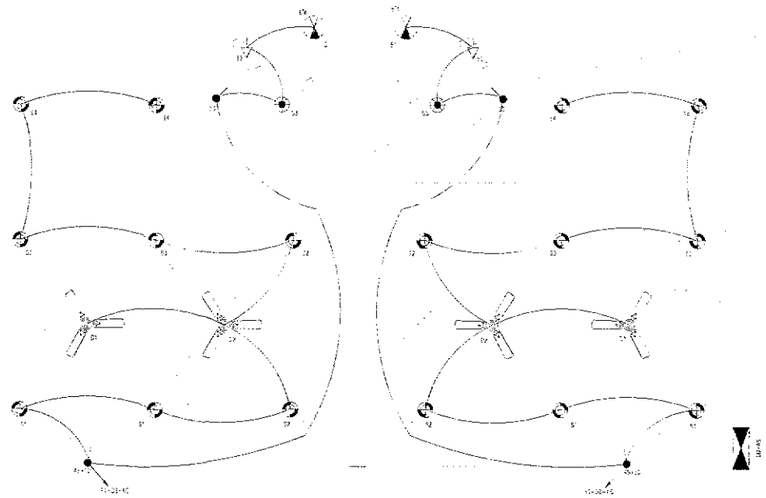
CAD FILE NAME:

ZI / KA / NK / TP - EL - -08

ELECTRICAL DRAWINGS
WEIGH STATION
NAUKANDI MASHKHEL



POWER LAYOUT



LIGHTING LAYOUT

NOTES

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
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00		

PROJECT:

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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

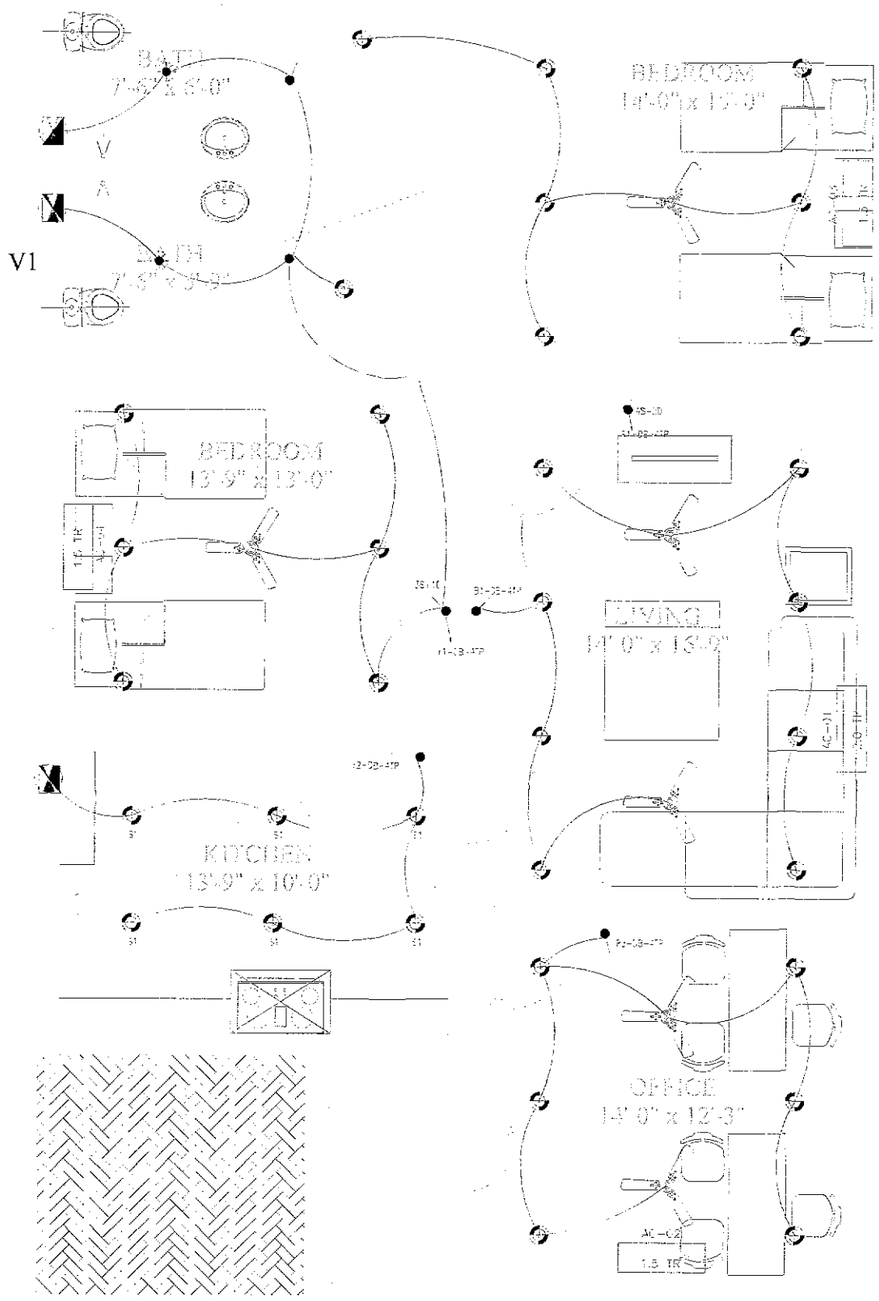
LIGHT AND POWER LAYOUT
WEIGH STATION
TOLL PLAZA

DESIGN BY:	SHEET NO:
SOHAIL MALIK	09 OF 12
DRAWN BY:	SCALE:
SOHAIL MALIK	N.T.S
CHECKED BY:	DATE:
FAHIM A KHAN	DEC. 2020
APPROVED BY:	REVISION:
FAHIM A KHAN	REV. 00

CAD FILE NAME:

ZI / KA / NK / TP - EL - -09

ELECTRICAL DRAWINGS
STAFF BUILDING
NAUKANDI MASHKHEL



NOTES

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD.
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

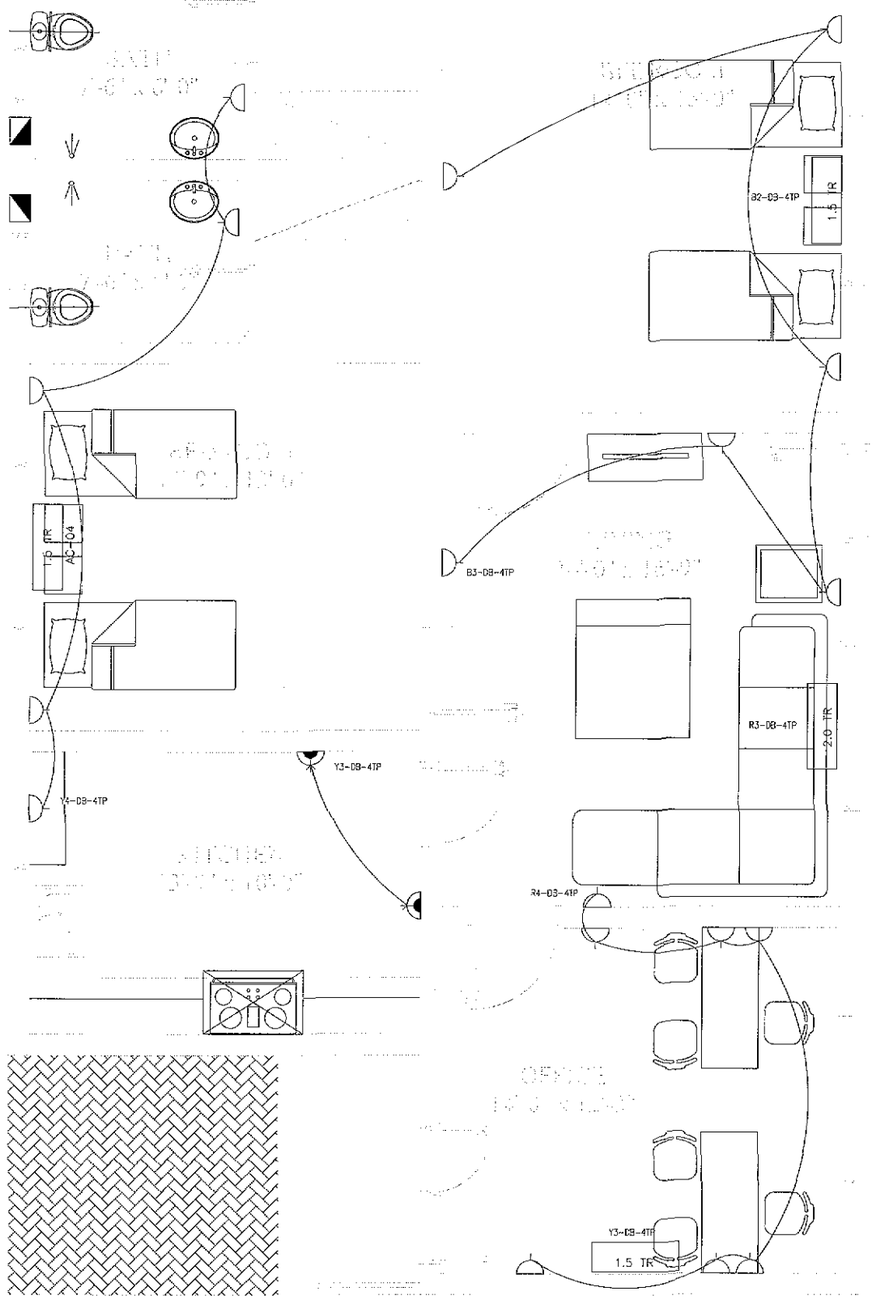
DRAWING TITLE:

LIGHTING LAYOUT
STAFF BUILDING
TOLL PLAZA

DESIGN BY:	SHEET NO:
SOHAIL MALIK	10 OF 12
DRAWN BY:	SCALE:
SOHAIL MALIK	N.T.S
CHECKED BY:	DATE:
FAHIM A KHAN	DEC, 2020
APPROVED BY:	REVISION:
FAHIM A KHAN	REV. 00

CAD FILE NAME:

ZI / KA / NK / TP - EL - 10



NOTES

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL,(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

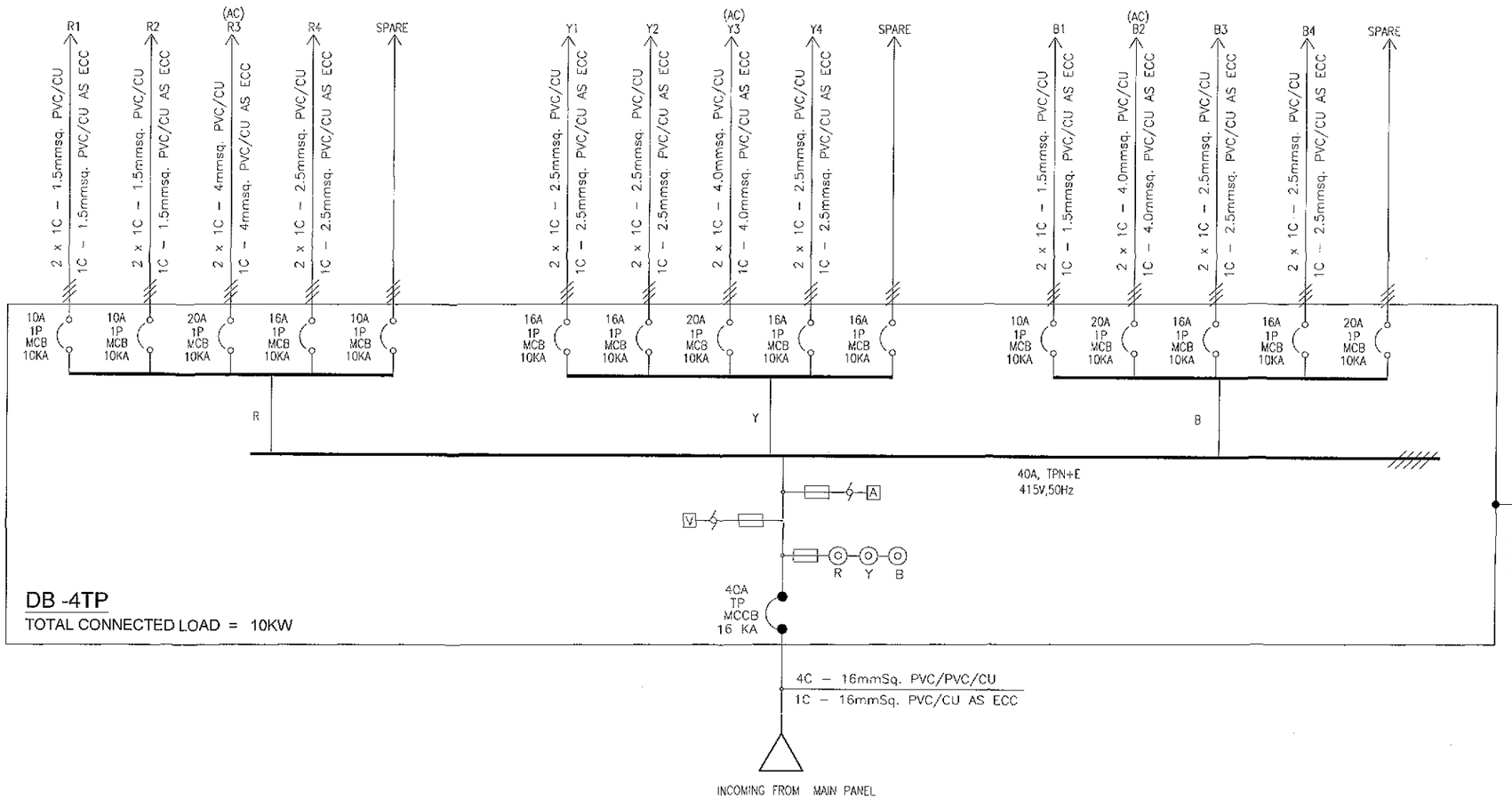
DRAWING TITLE:

POWER LAYOUT
STAFF BUILDING
TOLI PLAZA

DESIGN BY: SOHAIL MALIK	SHEET NO: 11 OF 12
DRAWN BY: SOHAIL MALIK	SCALE: N.T.S
CHECKED BY: FAHIM A KHAN	DATE: DEC, 2020
APPROVED BY: FAHIM A KHAN	REVISION: REV. 00

CAD FILE NAME:

ZI / KA / NK / TP - EL - 11



DB -4TP

TOTAL CONNECTED LOAD = 10KW

NOTES

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

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MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
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IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

SINGLE LINE DIAGRAM FOR STAFF BUILDING
TOLL PLAZA

DESIGN BY: SOHAIL MALIK	SHEET NO: 12 OF 12
DRAWN BY: SOHAIL MALIK	SCALE: N.T.S
CHECKED BY: FAHIM A KHAN	DATE: DEC, 2020
APPROVED BY: FAHIM A KHAN	REVISION: REV. 00

CAD FILE NAME:

ZI / KA / NK / TP - EL - 12

NAUKANDI- MASHKHEL

GENERATOR ROOM
06 LANE TOLL PLAZA
STORM WATER, FIRE FIGHTING & EXHAUST

LIST OF DRAWINGS

SERIAL NO.	DRAWING TITLE	DRAWING NO.
01	LIST OF DRAWINGS	ZI/KA/NK/06 TP/GR/S/F/E-01
02	LEGENDS	ZI/KA/NK/06 TP/GR/S/F/E-02
03	GROUND FLOOR PLAN FIRE FIGHTING & EXHAUST	ZI/KA/NK/06 TP/GR/S/F/E-03
04	ROOF PLAN STORM WATER	ZI/KA/NK/06 TP/GR/S/F/E-04

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZHERUK INTERNATIONAL..(PVT) LTD.
3rd Floor, Tune Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASID ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

LIST OF DRAWINGS
GENERATOR ROOM

DESIGN BY: Z I SHEIKH	SHEET NO: 01 OF 04
DRAWN BY: AFNAN SALEEM	SCALE: 1:20
CHECKED BY: FAHIM A KHAN	DATE: NOV, 2020
APPROVED BY: FAHIM A KHAN	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/06 TP/GR/S/F/E-01

LEGENDS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
CW	COLD WATER		SHOWER HOT / COLD MIXER
HW	HOT WATER	BC/MS	MUSLIM SHOWER /BIB COCK
	CONDENSATE DRAIN	KS	KITCHEN SINK
Ø	DIAMETER	F/B	FROM BELOW
S W	SOIL & WASTE WATER	H/L	HIGH LEVEL
	VENT PIPE		EXHAUST AIR GRILL (EAG)
	PIPE DOWN		REFRIGERANT PIPING FOR A/C UNITS
	PIPE UP		DRAIN PIPING FOR A/C UNITS
FG	FLOOR GULLY	EAD	EXHAUST AIR DIFFUSER
FD	FLOOR DRAIN	F.F.L	FINISHED FLOOR LEVEL
CO	CLEAN OUT	F.F.F.L	FROM FINISHED FLOOR LEVEL
M.H MH	MAN HOLE	V.T.R	VENT TO ROOF
GLT	GULLY TRAP	W WP	WASTE WATER PIPE / WASTE WATER STACK
GST	GREES TRAP	SW	SEWERAGE PIPE
VC	VALVE CHAMBER	NG	NATURAL GAS
	HANDLE VALVE / BALL VALVE	RWP	RAIN WATER PIPE
	GATE VALVE		GAS COCK
	GLOBE VALVE		CENTRIFUGAL WATER PUMP
	CHECK VALVE		SHOWER SET
	FLOAT VALVE		BIDET
	FOOT VALVE	HWG	HOT WATER GEYSER TEE STOP COCK
	COOKING RANGE	T/A	TO ABOVE
AC UNIT	SPLIT A/C UNIT	F/A	FROM ABOVE
	CASSETTE TYPE UNIT	T/B	TO BELOW
HD	HAND DRIER	INS. GEYSER	INSTANT GEYSER
	SOAP DISPENSER		CO 2 FIRE EXTINGUISHER
TPH	TOILET PAPER HOLDER		ABC DRY POWDER FIRE EXTINGUISHER
	BIB COCK		

NOTES

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LEGEND

ABBREVIATIONS

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DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

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ISLAMABAD

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IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

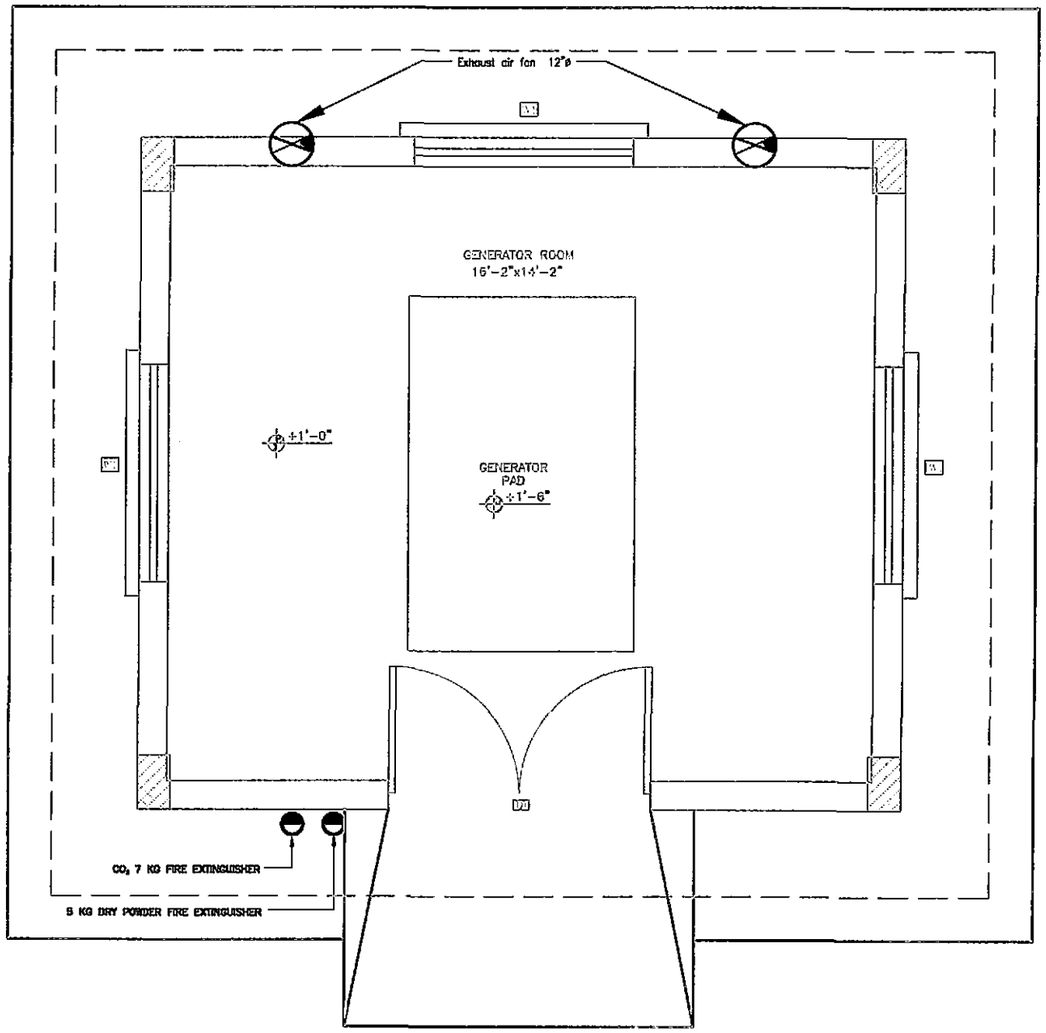
DRAWING TITLE:

LEGENDS
GENERATOR ROOM

DESIGN BY: Z I SHEIKH	SHEET NO: 02 OF 04
DRAWN BY: AFNAN SALEEM	SCALE: 1:100
CHECKED BY: FAHIM A KHAN	DATE: NOV, 2020
APPROVED BY: FAHIM A KHAN	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/06 TP/GR/S/F/E-02



NOTES

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LEGEND

ABBREVIATIONS

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	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

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MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

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IN ASSOCIATION WITH :

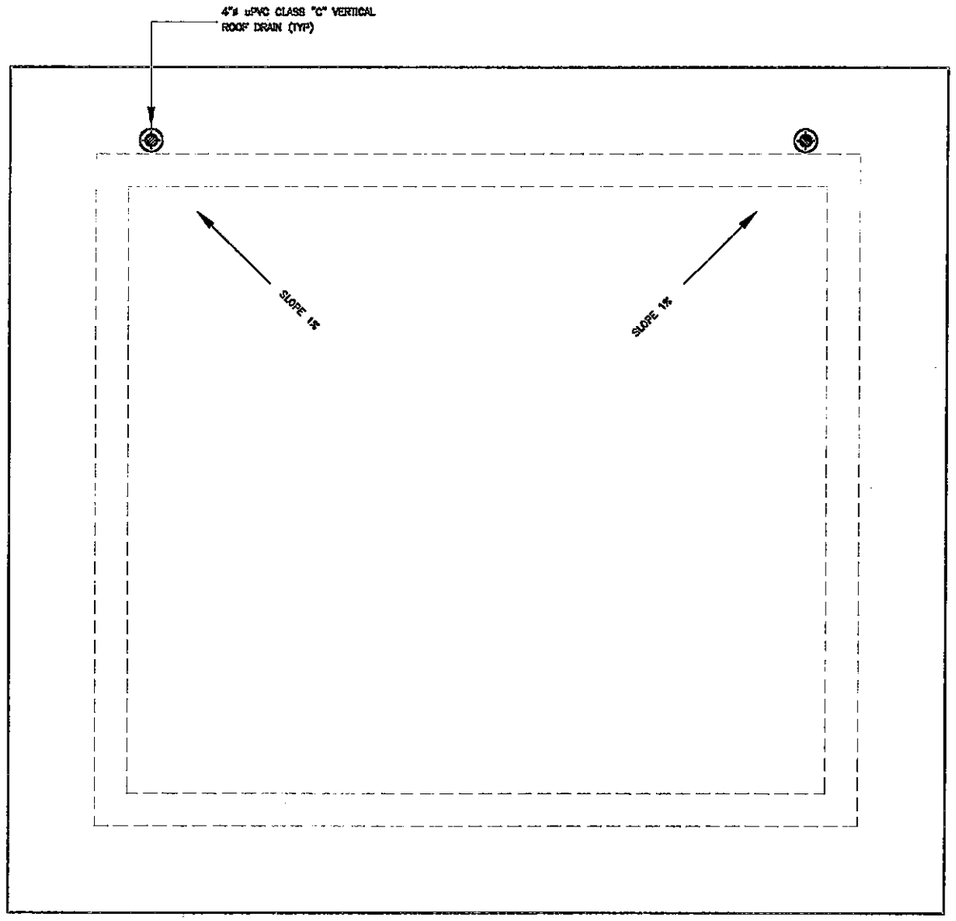
KASID ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

GROUND FLOOR PLAN
FIRE FIGHTING & EXHAUST
GENERATOR ROOM

DESIGN BY: Z I SHEIKH	SHEET NO: 03 OF 04
DRAWN BY: AFNAN SALEEM	SCALE: 1:20
CHECKED BY: FAHIM A KHAN	DATE: NOV, 2020
APPROVED BY: FAHIM A KHAN	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/06 TP/GR/S/F/E-03



NOTES

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LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

ROOF PLAN
STORM WATER
GENERATOR ROOM

DESIGN BY: Z I SHEIKH	SHEET NO: 04 OF 04
DRAWN BY: AFNAN SALEEM	SCALE: 1:20
CHECKED BY: FAHIM A KHAN	DATE: NOV, 2020
APPROVED BY: FAHIM A KHAN	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/06 TP/GR/S/F/E-04

NAUKANDI-MASHKHEL

STAFF BUILDING

06 LANE TOLL PLAZA

PLUMBING, FIRE FIGHTING & A/C

LIST OF DRAWINGS

SERIAL NO.	DRAWING TITLE	DRAWING NO.
01	LIST OF DRAWINGS	ZI/KA/NK/SB/P/F/A-01
02	LEGENDS	ZI/KA/NK/SB/P/F/A-02
03	GROUND FLOOR PLAN PLUMBING	ZI/KA/NK/SB/P/F/A-03
04	ROOF PLAN STORM WATER	ZI/KA/NK/SB/P/F/A-04
05	GROUND FLOOR PLAN A/C & FIRE FIGHTING	ZI/KA/NK/SB/P/F/A-05
06	TYPICAL DETAILS OF A/C	ZI/KA/NK/SB/P/F/A-06

NOTES

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LEGEND

ABBREVIATIONS

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01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
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IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

LIST OF DRAWINGS
STAFF BUILDING

DESIGN BY: Z.I SHEIKH	SHEET NO: 01 OF 06
DRAWN BY: MALIK SAQLAIN ALTAF	SCALE: 1:16
CHECKED BY: FAHIM ALI KHAN	DATE: NOV, 2020
APPROVED BY: FAHIM ALI KHAN	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/SB/P/F/A-01

LEGENDS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
CW	COLD WATER		SHOWER HOT / COLD MIXER
HW	HOT WATER	BC/MS	MUSLIM SHOWER /BIB COCK
	CONDENSATE DRAIN	KS	KITCHEN SINK
	DIAMETER	F/B	FROM BELOW
S W	SOIL & WASTE WATER	H/L	HIGH LEVEL
	VENT PIPE		EXHAUST AIR GRILL (EAG)
	PIPE DOWN		REFRIGERANT PIPING FOR A/C UNIT
	PIPE UP		DRAIN PIPING FOR A/C UNIT
FG	FLOOR GULLY	EAD	EXHAUST AIR DIFFUSER
FD/FT	FLOOR DRAIN/FLOOR TRAP	F.F.L	FINISHED FLOOR LEVEL
CO	CLEAN OUT	F.F.F.L	FROM FINISHED FLOOR LEVEL
M.H MH	MAN HOLE	V.T.R	VENT TO ROOF
GLT	GULLY TRAP	W WP	WASTE WATER PIPE / WASTE WATER STAK
GST	GREASE TRAP	SW	SEWERAGE PIPE
VC	VALVE CHAMBER	NG	NATURAL GAS
	HANDLE VALVE / BALL VALVE	RWP	RAIN WATER PIPE
	GATE VALVE		GAS COCK
	GLOBE VALVE		CENTRIFUGAL WATER PUMP
	CHECK VALVE		SHOWER SET
	FLOAT VALVE		BIDET
	FOOT VALVE	HWG	HOT WATER GEYSER TEE STOP COCK
	COOKING RANGE	T/A	TO ABOVE
A UNIT	SPLIT A/C UNIT	F/A	FROM ABOVE
	CASSETTE TYPE UNIT	T/B	TO BELOW
HD	HAND DRIER	INS. GEYSER	INSTANT GEYSER
	SOAP DISPENSER		CO FIRE EXTINGUISHER
TPH	TOILET PAPER HOLDER		ABC DRY POWDER FIRE EXTINGUISHER
	BIB COCK		

NOTES

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LEGEND

ABBREVIATIONS

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01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

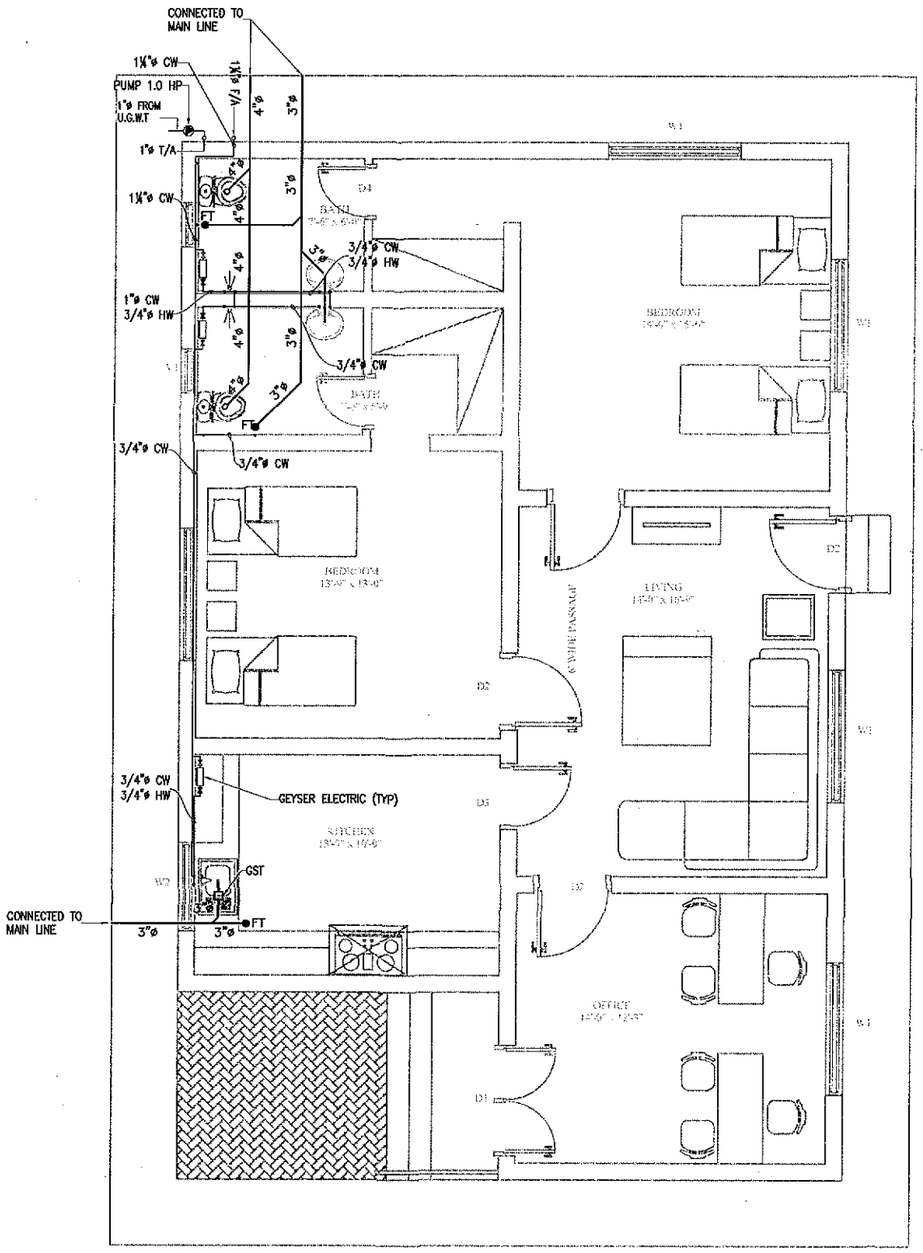
CONSULTANT :
ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

LEGENDS
STAFF BUILDING

DESIGN BY: Z.I SHEIKH	SHEET NO: 02 OF 06
DRAWN BY: MALIK SAQLAIN ALTAF	SCALE: 1:20
CHECKED BY: FAHIM ALI KHAN	DATE: NOV, 2020
APPROVED BY: FAHIM ALI KHAN	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/SB/P/F/A-02



NOTES
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LEGEND

ABBREVIATIONS

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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

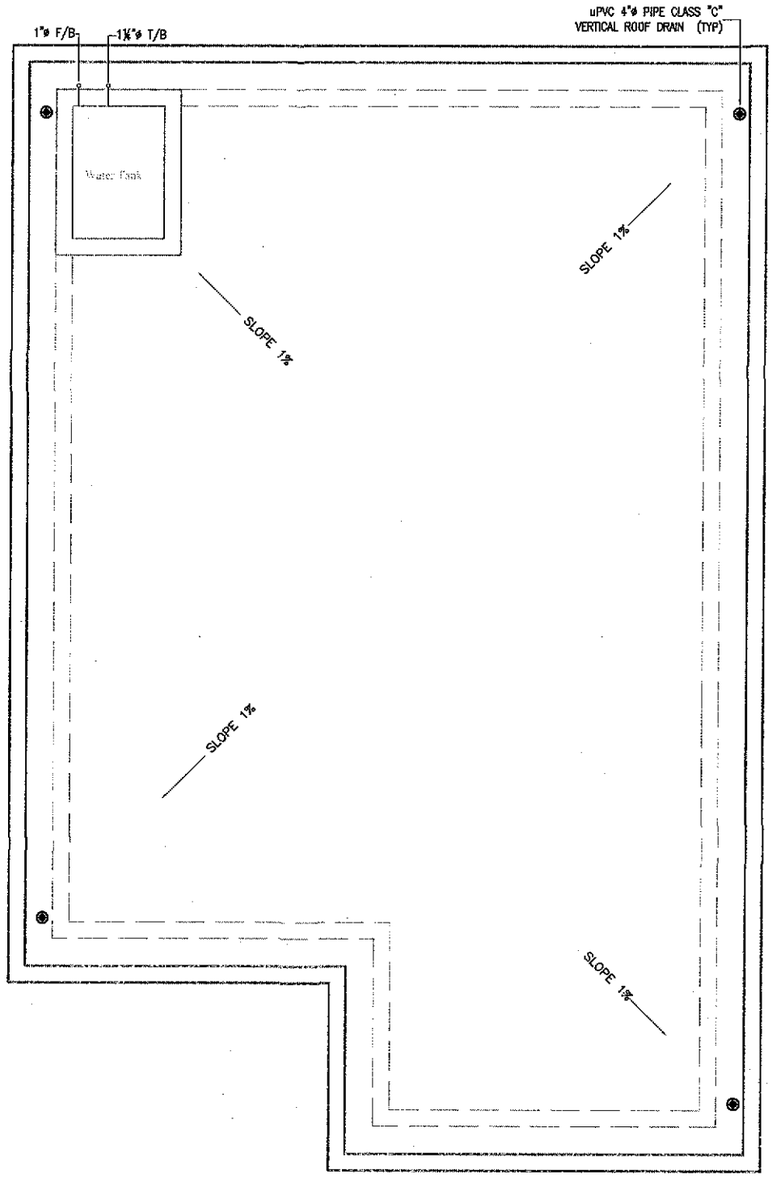
DRAWING TITLE:

GROUND FLOOR PLAN
PLUMBING
STAFF BUILDING

DESIGN BY:	SHEET NO:
Z.I SHEIKH	03 OF 06
DRAWN BY:	SCALE:
MALIK SAQLAIN ALTAF	1:40
CHECKED BY:	DATE:
FAHIM ALI KHAN	NOV. 2020
APPROVED BY:	REVISION:
FAHIM ALI KHAN	REV. 00

CAD FILE NAME:

ZI/KA/NK/SB/P/F/A-03



NOTES

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LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
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PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

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ISLAMABAD

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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

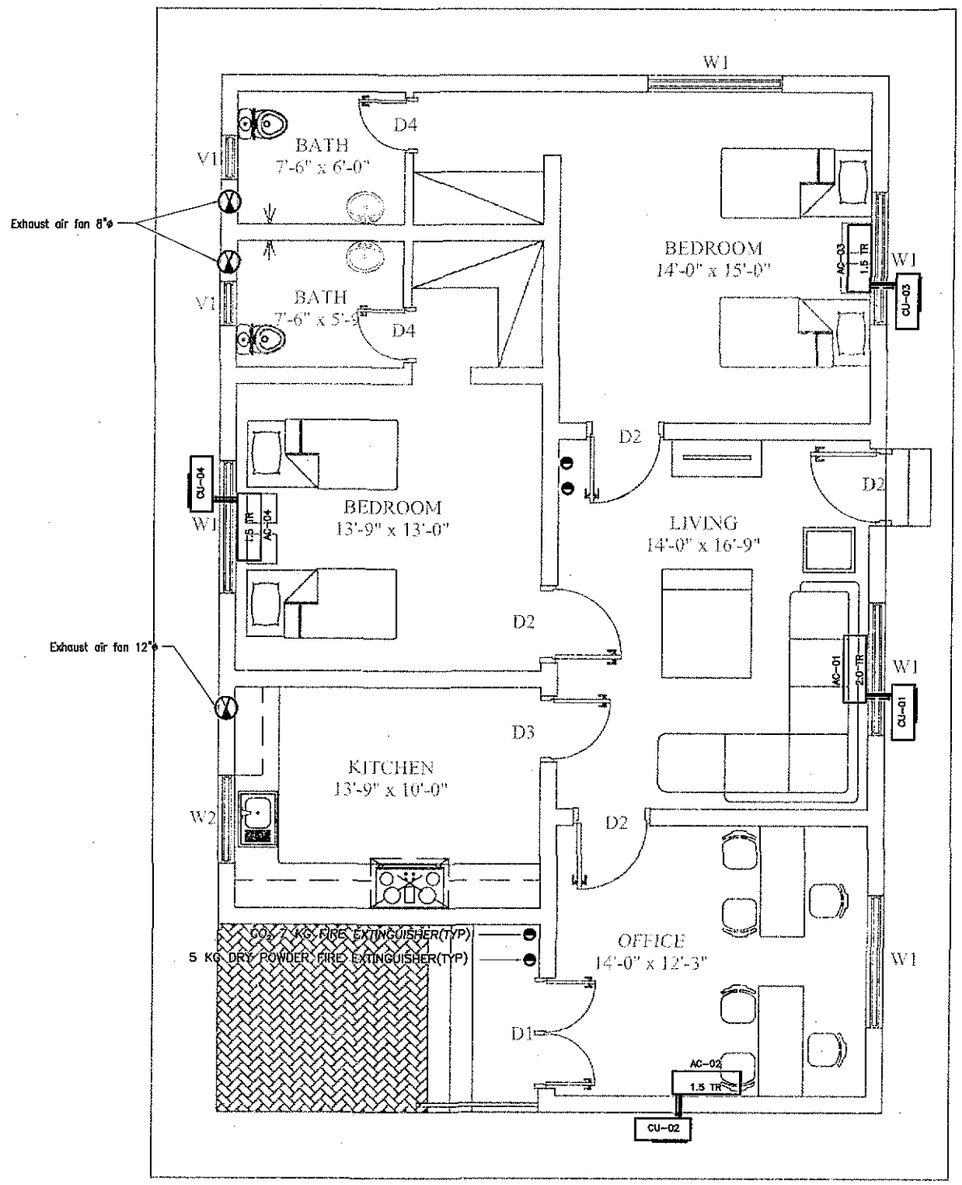
DRAWING TITLE:

ROOF PLAN
STORM WATER
STAFF BUILDING

DESIGN BY: Z.I SHEIKH	SHEET NO: 04 OF 06
DRAWN BY: MALIK SAQLAIN ALTAF	SCALE: 1:40
CHECKED BY: FAHIM ALI KHAN	DATE: NOV. 2020
APPROVED BY: FAHIM ALI KHAN	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/SB/P/F/A-04



FLOOR PLAN

NOTES

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LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

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MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

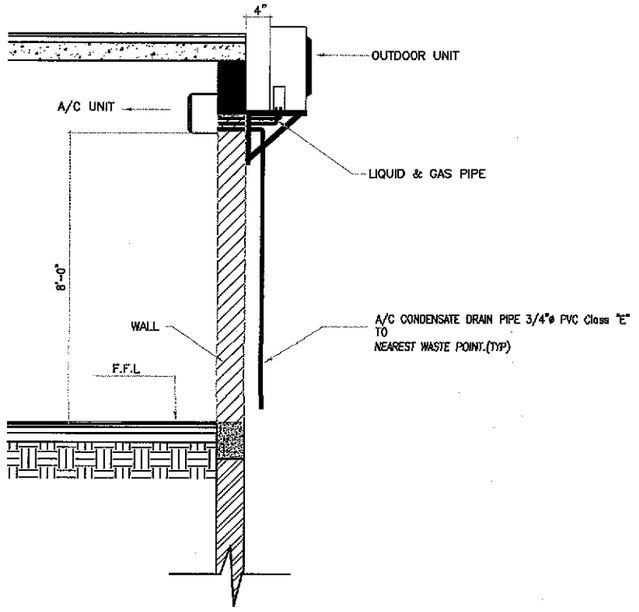
DRAWING TITLE:

GROUND FLOOR PLAN
A/C & FIRE FIGHTING
STAFF BUILDING

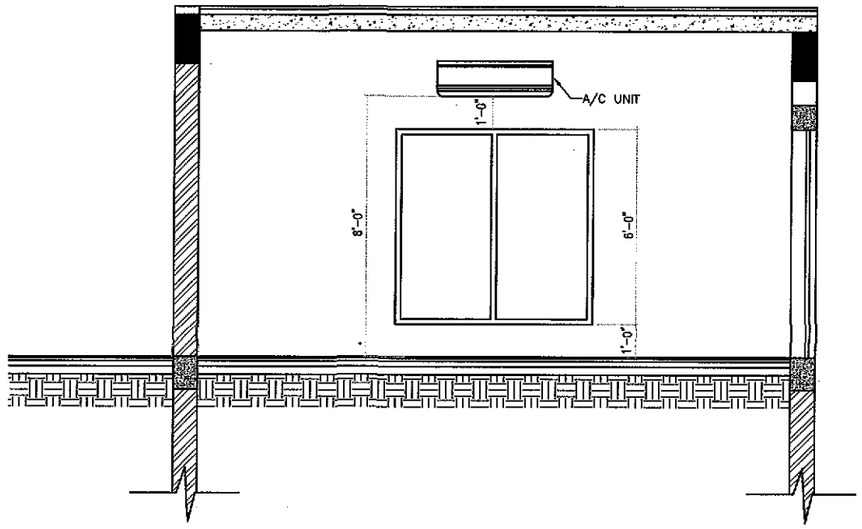
DESIGN BY: Z.I SHEIKH	SHEET NO: 05 OF 06
DRAWN BY: MALIK SAQLAIN ALTAF	SCALE: 1:40
CHECKED BY: FAHIM ALI KHAN	DATE: NOV. 2020
APPROVED BY: FAHIM ALI KHAN	REVISION: REV. 00

CAD FILE NAME:

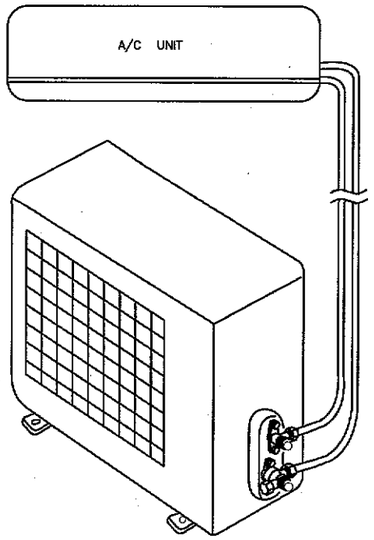
ZI/KA/NK/SB/P/F/A-05



TYPICAL INSTALLATION DETAIL OF A/C UNIT



ELEVATION



DETAIL OF A/C CONNECTION

NOTES

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LEGEND

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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

TYPICAL DETAILS OF A/C STAFF BUILDING

DESIGN BY: Z.I SHEIKH	SHEET NO: 06 OF 06
DRAWN BY: MALIK SAQLAIN ALTAF	SCALE: 1:20
CHECKED BY: FAHIM ALI KHAN	DATE: NOV, 2020
APPROVED BY: FAHIM ALI KHAN	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/SB/P/F/A-06

NAUKANDI- MASHKHEL

MASTER PLAN
EXTERNAL SERVICES
06 LANE TOLL PLAZA

LIST OF DRAWINGS

SERIAL NO.	DRAWING TITLE	DRAWING NO.
01	LIST OF DRAWINGS	ZI/KA/NK/06 TP/MP/P-01
02	LEGENDS	ZI/KA/NK/06 TP/MP/P-02
03	EXTERNAL SERVICES	ZI/KA/NK/06 TP/MP/P-03
04	TYPICAL DETAILS OF PLUMBING	ZI/KA/NK/06 TP/MP/P-04

NOTES

LEGEND

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NATIONAL HIGHWAY AUTHORITY
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3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

LIST OF DRAWINGS
MASTER PLAN

DESIGN BY: Z I SHEIKH	SHEET NO: 01 OF 04
DRAWN BY: AFNAN SALEEM	SCALE: 1:20
CHECKED BY: FAHIM A KHAN	DATE: NOV, 2020
APPROVED BY: FAHIM A KHAN	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/06 TP/MP/P-01

LEGENDS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
CW	COLD WATER		SHOWER HOT / COLD MIXER
HW	HOT WATER	BC/MS	MUSLIM SHOWER /BIB COCK
	CONDENSATE DRAIN	KS	KITCHEN SINK
∅	DIAMETER	F/B	FROM BELOW
S W	SOIL & WASTE WATER	H/L	HIGH LEVEL
	VENT PIPE		EXHAUST AIR GRILL (EAG)
	PIPE DOWN		REFRIGERANT PIPING FOR A/C UNITS
	PIPE UP		DRAIN PIPING FOR A/C UNITS
FG	FLOOR GULLY	EAD	EXHAUST AIR DIFFUSER
FD	FLOOR DRAIN	F.F.L	FINISHED FLOOR LEVEL
CO	CLEAN OUT	F.F.F.L	FROM FINISHED FLOOR LEVEL
M.H MH	MAN HOLE	V.T.R	VENT TO ROOF
GLT	GULLY TRAP	W WP	WASTE WATER PIPE / WASTE WATER STACK
GST	GREES TRAP	SW	SEWERAGE PIPE
VC	VALVE CHAMBER	NG	NATURAL GAS
	HANDLE VALVE / BALL VALVE	RWP	RAIN WATER PIPE
	GATE VALVE		GAS COCK
	GLOBE VALVE		CENTRIFUGAL WATER PUMP
	CHECK VALVE		SHOWER SET
	FLOAT VALVE		BIDET
	FOOT VALVE	HWG	HOT WATER GEYSER TEE STOP COCK
	COOKING RANGE	T/A	TO ABOVE
AC UNIT	SPLIT A/C UNIT	F/A	FROM ABOVE
	CASSETTE TYPE UNIT	T/B	TO BELOW
HD	HAND DRIER	INS. GEYSER	INSTANT GEYSER
	SOAP DISPENSER		CO 2 FIRE EXTINGUISHER
TPH	TOILET PAPER HOLDER		ABC DRY POWDER FIRE EXTINGUISHER
	BIB COCK		

NOTES

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

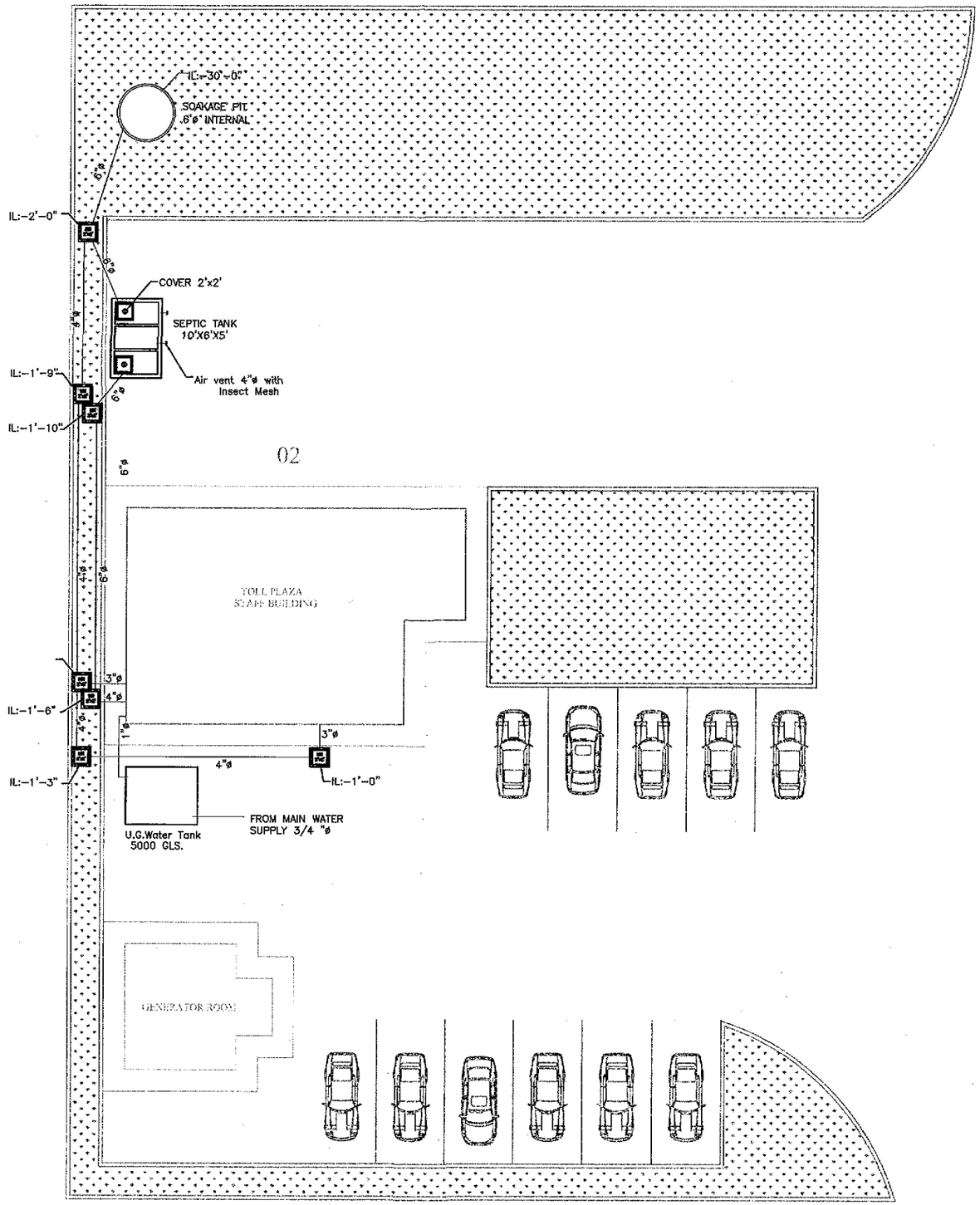
CONSULTANT :
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

LEGENDS
MASTER PLAN

DESIGN BY: Z I SHEIKH	SHEET NO: 02 OF 04
DRAWN BY: AFNAN SALEEM	SCALE: 1:100
CHECKED BY: FAHIM A KHAN	DATE: NOV, 2020
APPROVED BY: FAHIM A KHAN	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/06 TP/MP/P-02



NOTES

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEBRUK INTERNATIONAL.(PVT) LTD
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I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

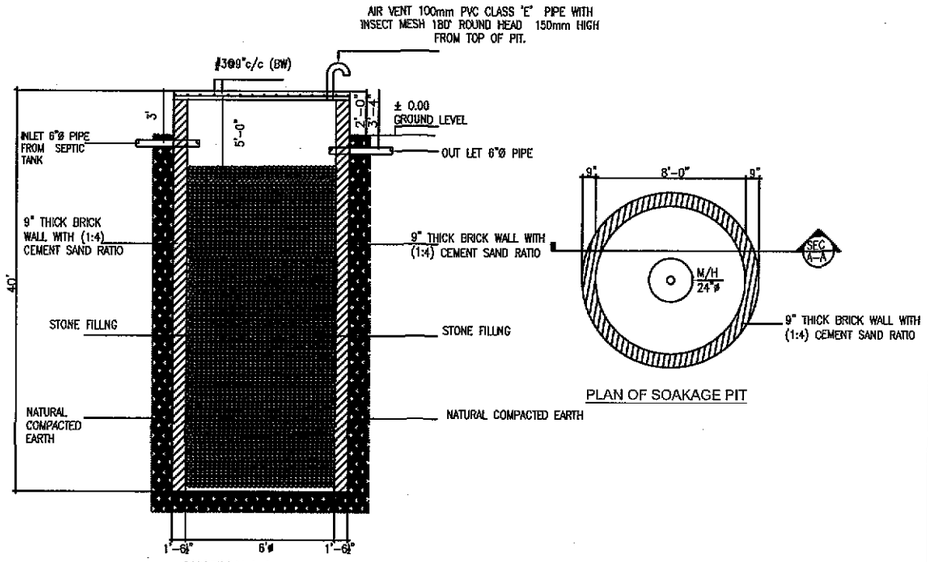
DRAWING TITLE:

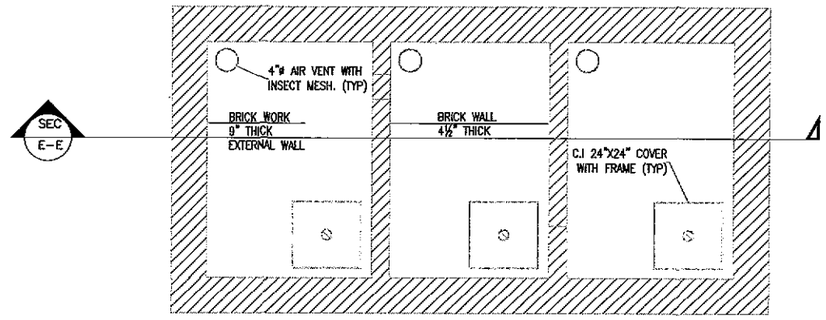
EXTERNAL SERVICES
MASTER PLAN

DESIGN BY: Z I SHEIKH	SHEET NO: 03 OF 04
DRAWN BY: AFNAN SALEEM	SCALE: 1:100
CHECKED BY: FAHIM A KHAN	DATE: NOV, 2020
APPROVED BY: FAHIM A KHAN	REVISION: REV. 00

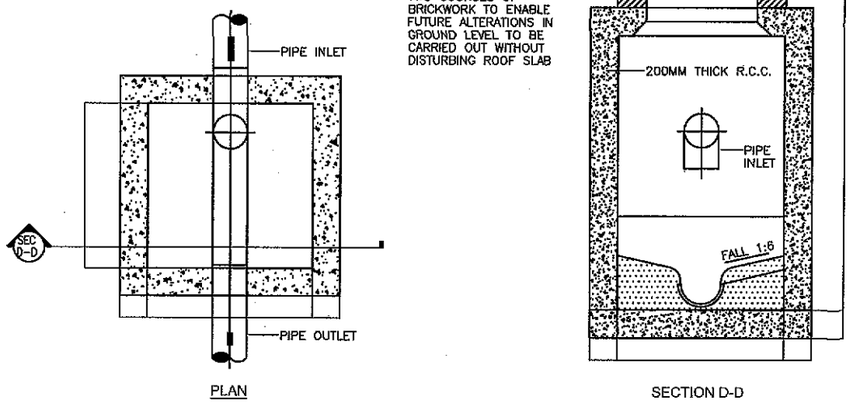
CAD FILE NAME:

ZI/KA/NK/06 TP/MP/P-03

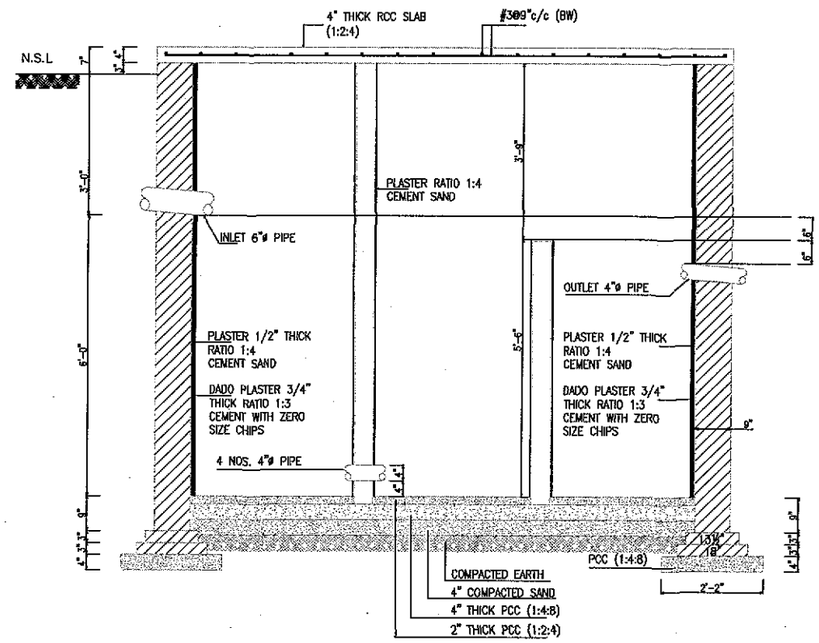




PLAN OF SEPTIC TANK



DETAIL OF MANHOLE



SECTION E-E

NOTES

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:
DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT & ARCHITECTS.

DRAWING TITLE:
TYPICAL DETAILS OF PLUMBING MASTER PLAN

DESIGN BY: Z I SHEIKH	SHEET NO: 04 OF 04
DRAWN BY: AFNAN SALEEM	SCALE: 1:100
CHECKED BY: FAHIM A KHAN	DATE: NOV, 2020
APPROVED BY: FAHIM A KHAN	REVISION: REV. 00

CAD FILE NAME:
ZUKA/NK/06 TP/MP/P-04

NAUKANDI- MASHKHEL

06 LANE TOLL PLAZA
PLUMBING, FIRE FIGHTING & A/C

LIST OF DRAWINGS

SERIAL NO.	DRAWING TITLE	DRAWING NO.
01	LIST OF DRAWINGS	ZI/LINK ROAD/06 TP/PL/F/A-01
02	LEGENDS	ZI/LINK ROAD/06 TP/PL/F/A-02
03	PLUMBING, FIRE FIGHTING & A/C LAYOUT	ZI/LINK ROAD/06 TP/PL/F/A-03
04	DETAIL - "A"	ZI/LINK ROAD/06 TP/PL/F/A-04
05	TYPICAL DETAILS OF A/C	ZI/LINK ROAD/06 TP/PL/F/A-05

NOTES

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL (PVT) LTD
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IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

LIST OF DRAWINGS
06 LANE TOLL PLAZA

DESIGN BY: Z I SHEIKH	SHEET NO: 01 OF 05
DRAWN BY: AFNAN SALEEM	SCALE: 1:20
CHECKED BY: FAHIM A KHAN	DATE: NOV, 2020
APPROVED BY: FAHIM A KHAN	REVISION: REV. 00

CAD FILE NAME:

ZI/KA/NK/06 TP/P/F/A-01

LEGENDS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
CW	COLD WATER		SHOWER HOT / COLD MIXER
HW	HOT WATER	BC/MS	MUSLIM SHOWER /BIB COCK
	CONDENSATE DRAIN	KS	KITCHEN SINK
∅	DIAMETER	F/B	FROM BELOW
S W	SOIL & WASTE WATER	H/L	HIGH LEVEL
	VENT PIPE		EXHAUST AIR GRILL (EAG)
	PIPE DOWN		REFRIGERANT PIPING FOR A/C UNITS
	PIPE UP		DRAIN PIPING FOR A/C UNITS
FG	FLOOR GULLY	EAD	EXHAUST AIR DIFFUSER
FD	FLOOR DRAIN	F.F.L	FINISHED FLOOR LEVEL
CO	CLEAN OUT	F.F.F.L	FROM FINISHED FLOOR LEVEL
M.H MH	MAN HOLE	V.T.R	VENT TO ROOF
GLT	GULLY TRAP	W WP	WASTE WATER PIPE / WASTE WATER STACK
GST	GREES TRAP	SW	SEWERAGE PIPE
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	GATE VALVE		GAS COCK
	GLOBE VALVE		CENTRIFUGAL WATER PUMP
	CHECK VALVE		SHOWER SET
	FLOAT VALVE		BIDET
	FOOT VALVE	HWG	HOT WATER GEYSER TEE STOP COCK
	COOKING RANGE	T/A	TO ABOVE
AC UNIT	SPLIT A/C UNIT	F/A	FROM ABOVE
	CASSETTE TYPE UNIT	T/B	TO BELOW
HD	HAND DRIER	INS. GEYSER	INSTANT GEYSER
	SOAP DISPENSER		CO 2 FIRE EXTINGUISHER
TPH	TOILET PAPER HOLDER		ABC DRY POWDER FIRE EXTINGUISHER
	BIB COCK		

NOTES

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :
ZIBERUK INTERNATIONAL.(PVT) LTD
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Ph: 051-4938213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

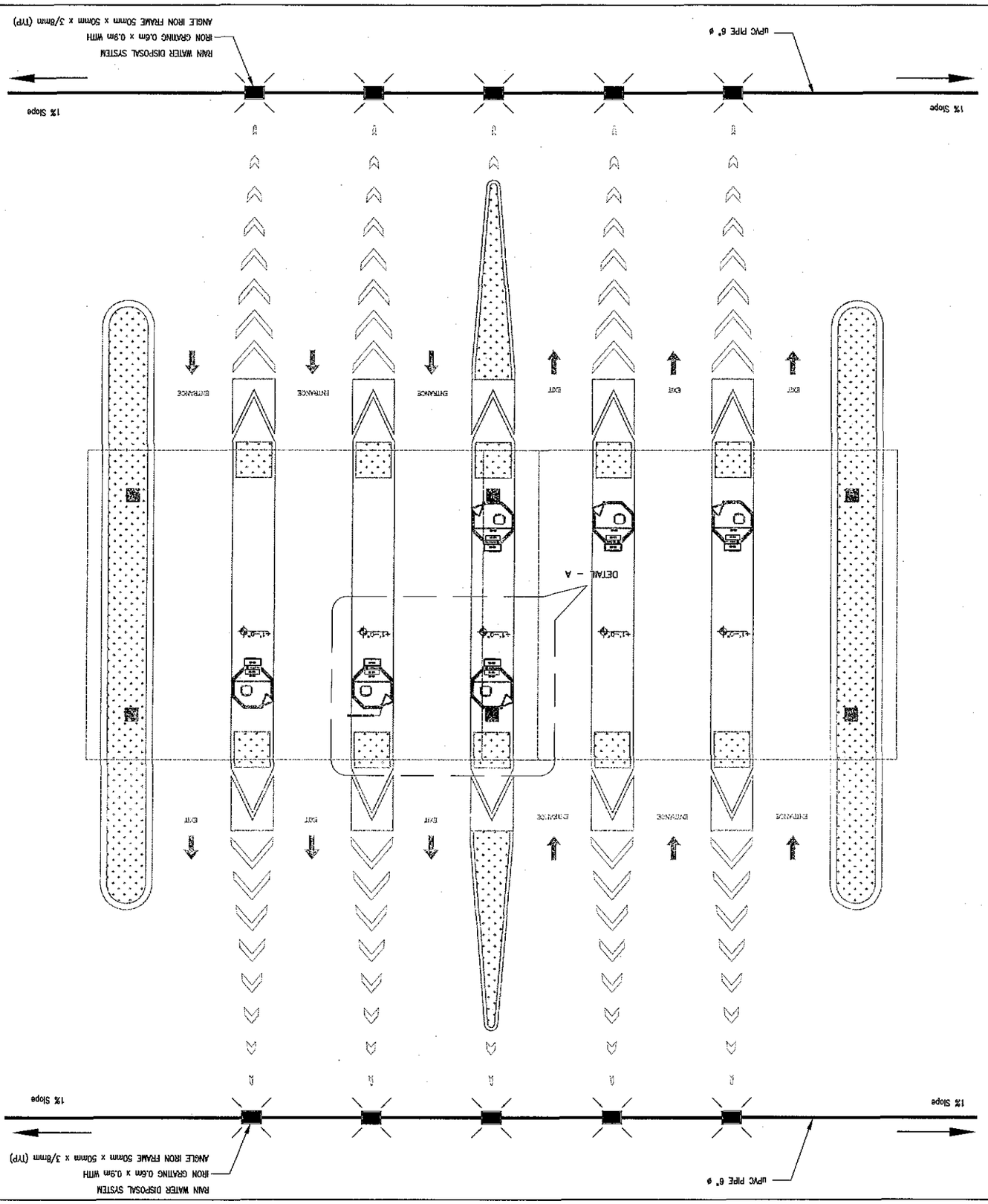
DRAWING TITLE:

LEGENDS
06 LANE TOLL PLAZA

DESIGN BY:	SHEET NO:
Z I SHEIKH	02 OF 05
DRAWN BY:	SCALE:
AFNAN SALEEM	1:100
CHECKED BY:	DATE:
FAHIM A KHAN	NOV, 2020
APPROVED BY:	REVISION:
FAHIM A KHAN	REV. 00

CAD FILE NAME:

ZI/KA/NK/06 TP/P/F/A-02



DESIGN BY:	SHEET NO:
Z I SHEKH	03 OF 05
DRAWN BY:	SCALE:
ARNAN SALEEM	1:100
CHECKED BY:	DATE:
FAHIM A KHAN	NOV, 2020
APPROVED BY:	REVISION:
FAHIM A KHAN	REV. 00

CAD FILE NAME:
ZI/KA/NK/06 TP/P/F/A-03

DRAWING TITLE:
PLUMBING, FIRE FIGHTING & A/C
LAYOUT
06 LANE TOLL PLAZA

CONSULTANT :
ZEERUK INTERNATIONAL (PVT) LTD
3rd Floor, Time Square Plaza,
1-B Mahtab, Islamabad.
Ph: 051-4933213-4, FAX: 051-4938215
IN ASSOCIATION WITH :
KASIB ASSOCIATES
ENGINEER.CONSULTANT
& ARCHITECTS.

CLIENT :
GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

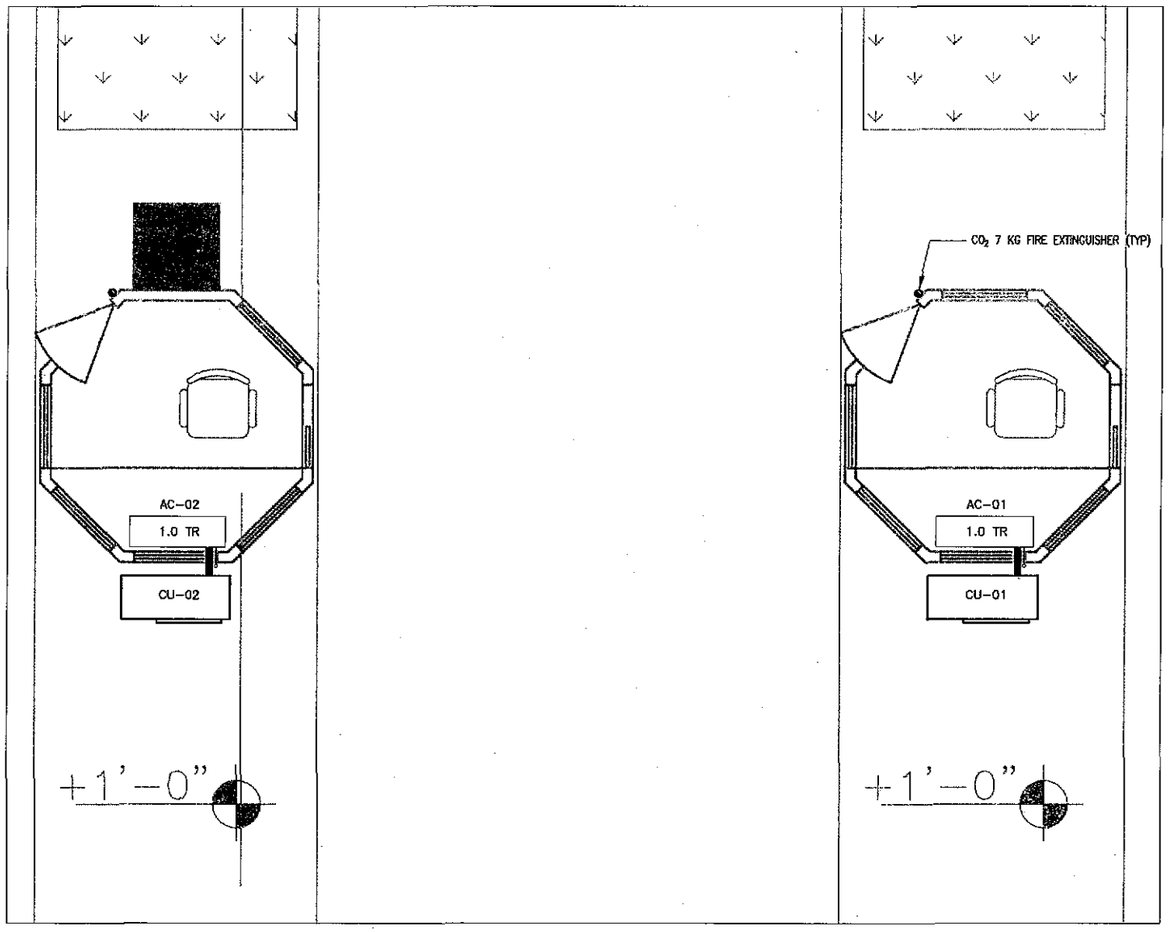
PROJECT:
DETAILED DESIGN FOR
CONSTRUCTION OF ROAD FROM
NAUKANDI TO MASHKHEL

REV.	REVISION/ISSUE	DATE
00		
01		

NOTES

LEGEND

ABBREVIATIONS



NOTES

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZBERUK INTERNATIONAL (PVT) LTD
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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

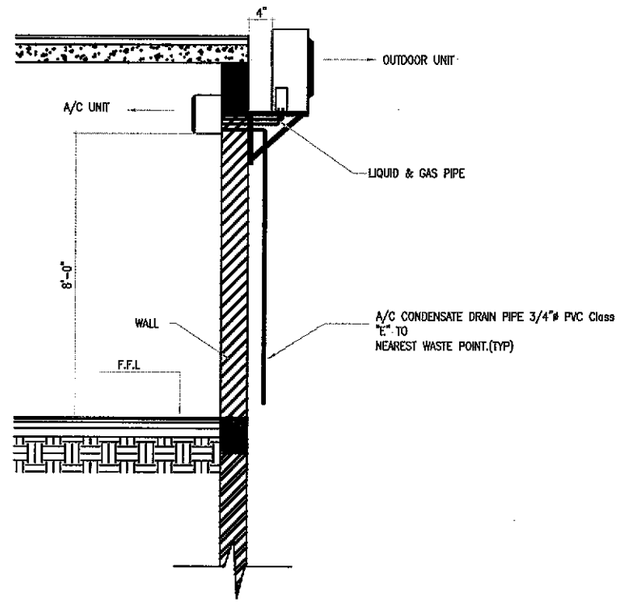
DRAWING TITLE:

DETAIL "A"
06 LANE TOLL PLAZA

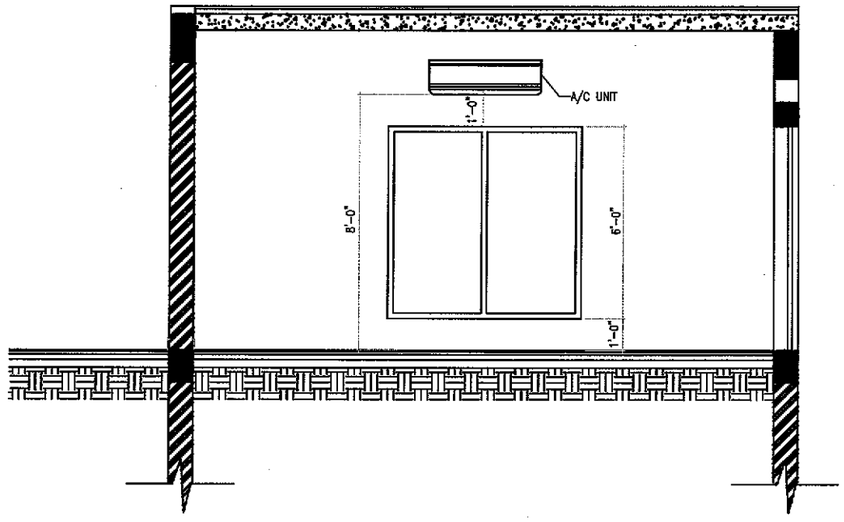
DESIGN BY:	SHEET NO:
Z I SHEIKH	04 OF 05
DRAWN BY:	SCALE:
AFNAN SALEEM	1:100
CHECKED BY:	DATE:
FAHIM A KHAN	NOV, 2020
APPROVED BY:	REVISION:
FAHIM A KHAN	REV. 00

CAD FILE NAME:

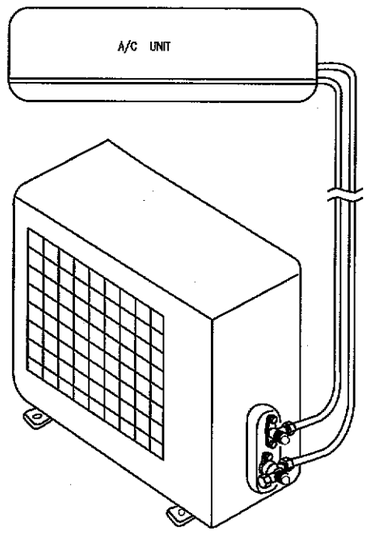
ZI/KA/NK/06 TP/P/F/A-04



TYPICAL INSTALLATION DETAIL OF A/C UNIT



ELEVATION



DETAIL OF A/C CONNECTION

NOTES

LEGEND

ABBREVIATIONS

REV.	REVISION/ISSUE	DATE
01		
00		

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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Ph: 051-4938213-4, FAX: 051-4938315

IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

TYPICAL DETAILS OF
A/C
06 LANE TOLL PLAZA

DESIGN BY:	SHEET NO:
Z I SHEIKH	05 OF 05
DRAWN BY:	SCALE:
AFNAN SALEEM	1:20
CHECKED BY:	DATE:
FAHIM A KHAN	NOV, 2020
APPROVED BY:	REVISION:
FAHIM A KHAN	REV. 00

CAD FILE NAME:

ZI/KA/NK/06 TP/P/E/A-05

NAUKANDI- MASHKHEL

WEIGH STATION
06 LANE TOLL PLAZA
PLUMBING, FIRE FIGHTING & A/C

LIST OF DRAWINGS

SERIAL NO.	DRAWING TITLE	DRAWING NO.
01	LIST OF DRAWINGS	ZI/KA/NK/06 TP/WS/P/F/A-01
02	LEGENDS	ZI/KA/NK/06 TP/WS/P/F/A-02
03	GROUND FLOOR PLAN PLUMBING & FIRE FIGHTING	ZI/KA/NK/06 TP/WS/P/F/A-03
04	ROOF PLAN PLUMBING	ZI/KA/NK/06 TP/WS/P/F/A-04
05	GROUND FLOOR PLAN A/C	ZI/KA/NK/06 TP/WS/P/F/A-05
06	TYPICAL DETAILS OF A/C	ZI/KA/NK/06 TP/WS/P/F/A-06
07	TYPICAL DETAILS OF PLUMBING	ZI/KA/NK/06 TP/WS/P/F/A-07

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

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IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

LIST OF DRAWINGS
WEIGH STATION

DESIGN BY: Z I SHEIKH	SHEET NO: 01 OF 07
DRAWN BY: AFNAN SALEEM	SCALE: 1:20
CHECKED BY: FAHIM A KHAN	DATE: NOV, 2020
APPROVED BY: FAHIM A KHAN	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/06 TP/WS/P/F/A-01

LEGENDS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
CW	COLD WATER		SHOWER HOT / COLD MIXER
HW	HOT WATER	BC/MS	MUSLIM SHOWER /BIB COCK
	CONDENSATE DRAIN	KS	KITCHEN SINK
Ø	DIAMETER	F/B	FROM BELOW
S W	SOIL & WASTE WATER	H/L	HIGH LEVEL
	VENT PIPE		EXHAUST AIR GRILL (EAG)
	PIPE DOWN		REFRIGERANT PIPING FOR A/C UNITS
	PIPE UP		DRAIN PIPING FOR A/C UNITS
FG	FLOOR GULLY	EAD	EXHAUST AIR DIFFUSER
FD	FLOOR DRAIN	F.F.L	FINISHED FLOOR LEVEL
CO	CLEAN OUT	F.F.F.L	FROM FINISHED FLOOR LEVEL
M.H MH	MAN HOLE	V.T.R	VENT TO ROOF
GLT	GULLY TRAP	W WP	WASTE WATER PIPE / WASTE WATER STACK
GST	GREES TRAP	SW	SEWERAGE PIPE
VC	VALVE CHAMBER	NG	NATURAL GAS
	HANDLE VALVE / BALL VALVE	RWP	RAIN WATER PIPE
	GATE VALVE		GAS COCK
	GLOBE VALVE		CENTRIFUGAL WATER PUMP
	CHECK VALVE		SHOWER SET
	FLOAT VALVE		BIDET
	FOOT VALVE	HWG	HOT WATER GEYSER TEE STOP COCK
	COOKING RANGE	T/A	TO ABOVE
AC UNIT	SPLIT A/C UNIT	F/A	FROM ABOVE
	CASSETTE TYPE UNIT	T/B	TO BELOW
HD	HAND DRIER	INS. GEYSER	INSTANT GEYSER
	SOAP DISPENSER		CO 2 FIRE EXTINGUISHER
TPH	TOILET PAPER HOLDER		ABC DRY POWDER FIRE EXTINGUISHER
	BIB COCK		

NOTES

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LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

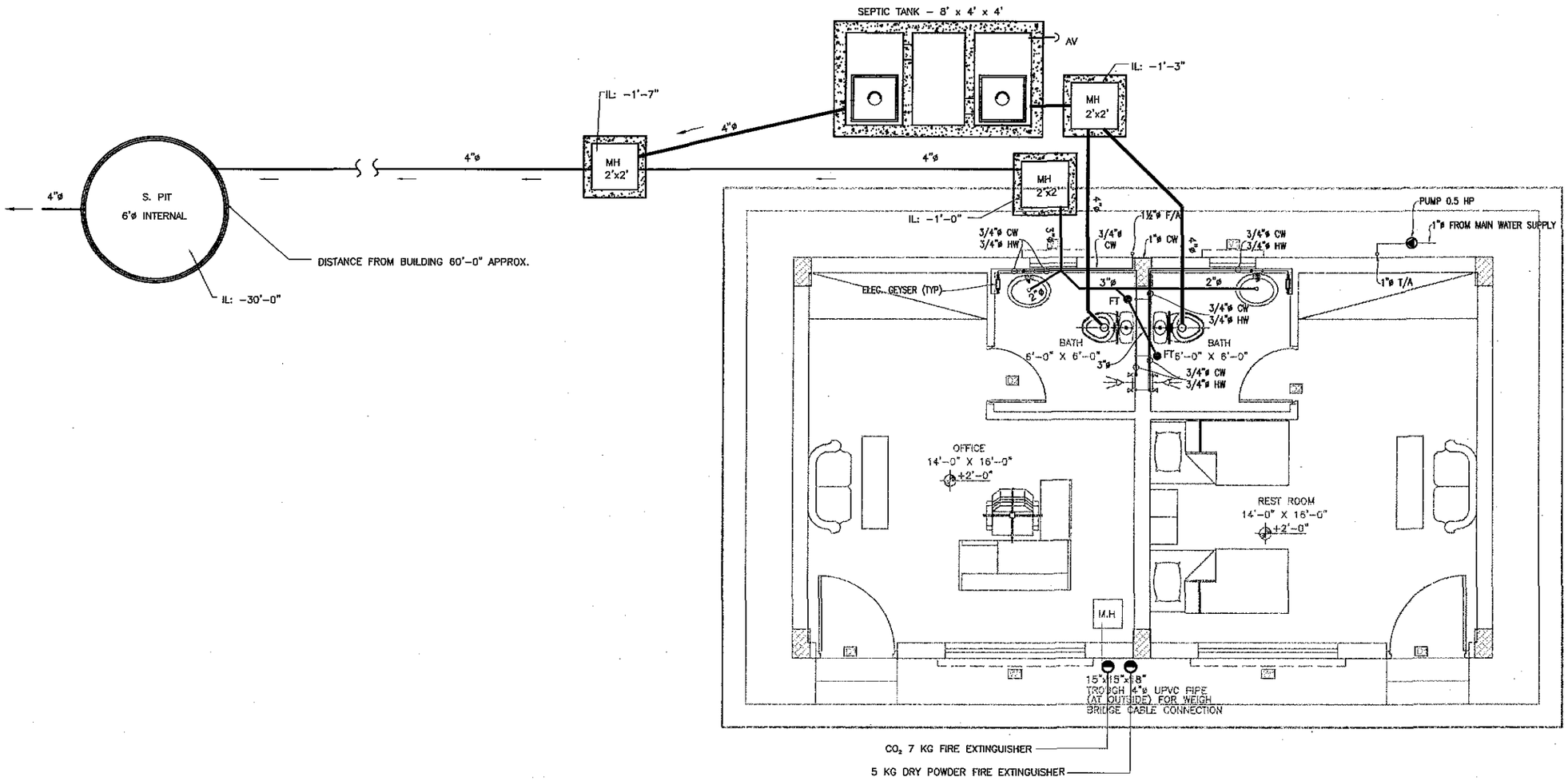
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

LEGENDS
WEIGH STATION

DESIGN BY: Z I SHEIKH	SHEET NO: 02 OF 07
DRAWN BY: AFNAN SALEEM	SCALE: 1:20
CHECKED BY: FAHIM A KHAN	DATE: NOV, 2020
APPROVED BY: FAHIM A KHAN	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/06 TP/WS/P/F/A-02



NOTES

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LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

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Ph: 051-4938213-4, FAX: 051-4938215

IN ASSOCIATION WITH :

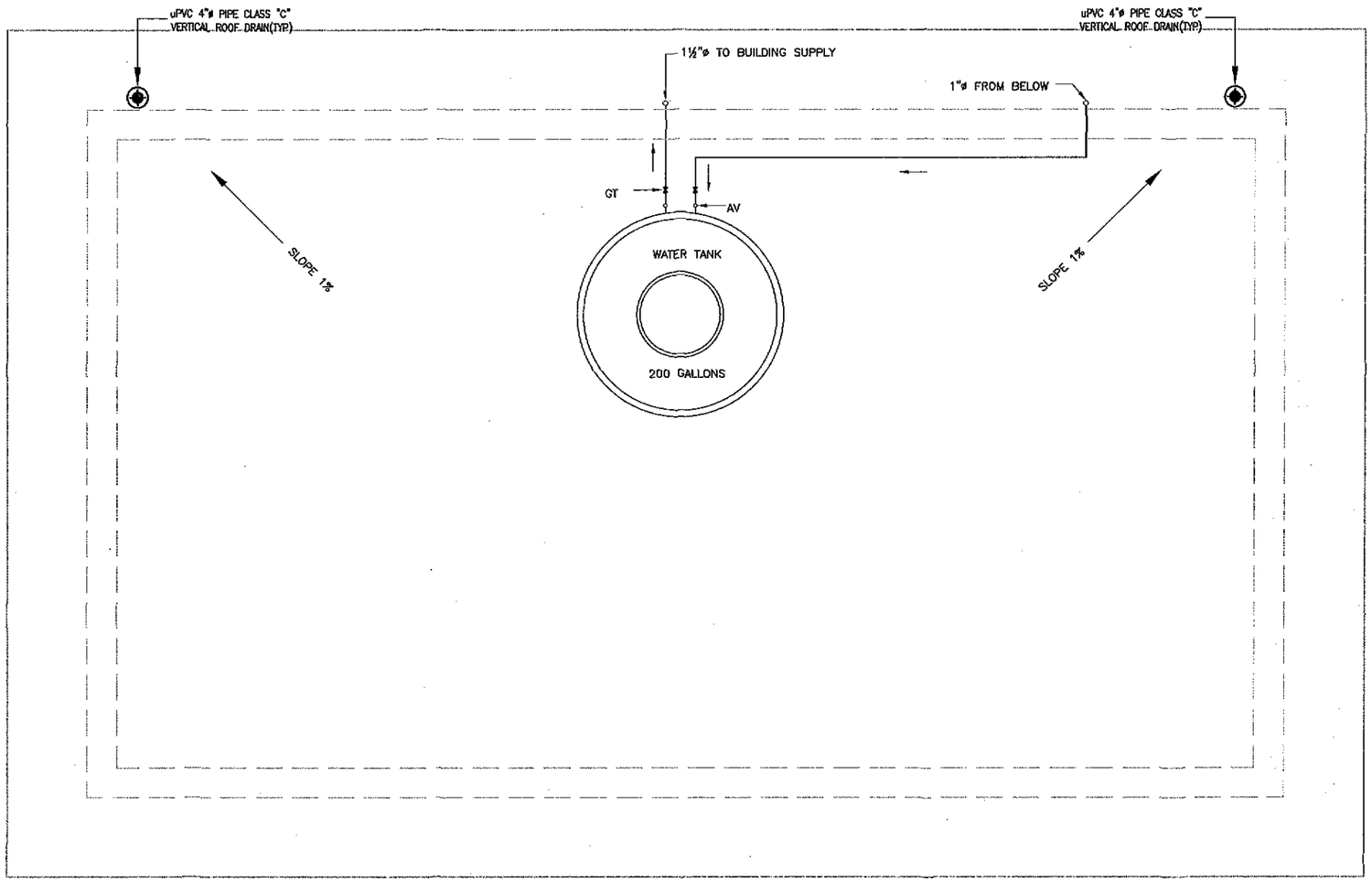
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

GROUND FLOOR PLAN
PLUMBING & FIRE FIGHTING
WEIGH STATION

DESIGN BY: Z I SHEIKH	SHEET NO: 03 OF 07
DRAWN BY: AFNAN SALEEM	SCALE: 1:30
CHECKED BY: FAHIM A KHAN	DATE: NOV, 2020
APPROVED BY: FAHIM A KHAN	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/06 TP/WS/P/F/A-03



NOTES

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LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

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NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

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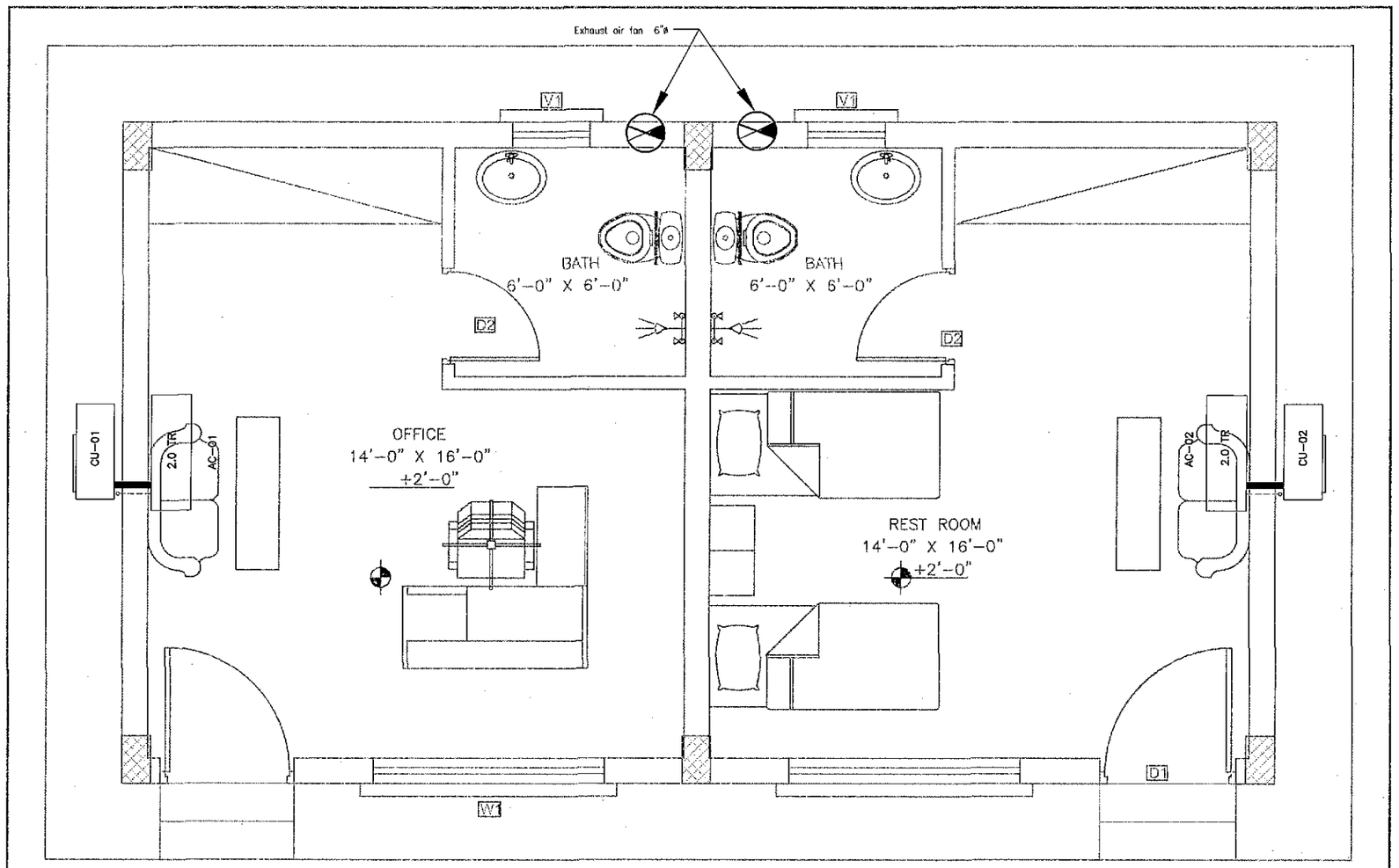
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

ROOF PLAN PLUMBING
WEIGH STATION

DESIGN BY: Z I SHEIKH	SHEET NO: 04 OF 07
DRAWN BY: AFNAN SALEEM	SCALE: 1:20
CHECKED BY: FAHIM A KHAN	DATE: NOV, 2020
APPROVED BY: FAHIM A KHAN	REVISION: REV. 00

CAD FILE NAME:
ZI/KA/NK/06 TP/WS/P/F/A-04



NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

GOVERNMENT OF PAKISTAN
MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
ISLAMABAD

CONSULTANT :

ZEERUK INTERNATIONAL.(PVT) LTD
3rd Floor, Time Square Plaza,
I-8 Markaz, Islamabad.
Ph: 051-4938212-4, FAX: 051-4938215

IN ASSOCIATION WITH :

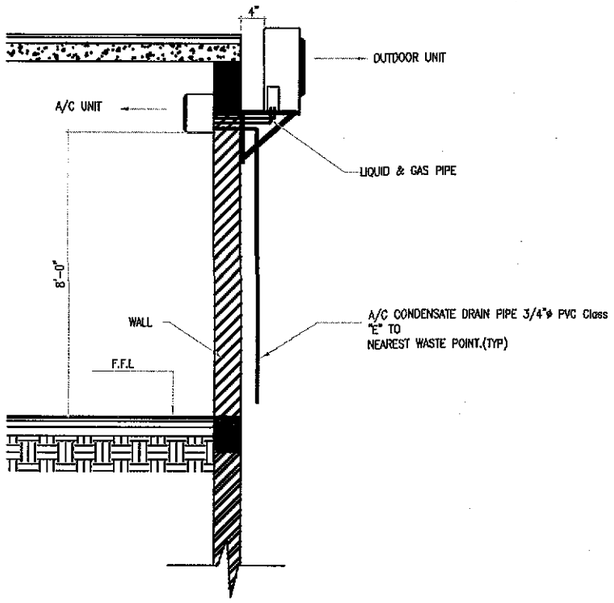
KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

DRAWING TITLE:

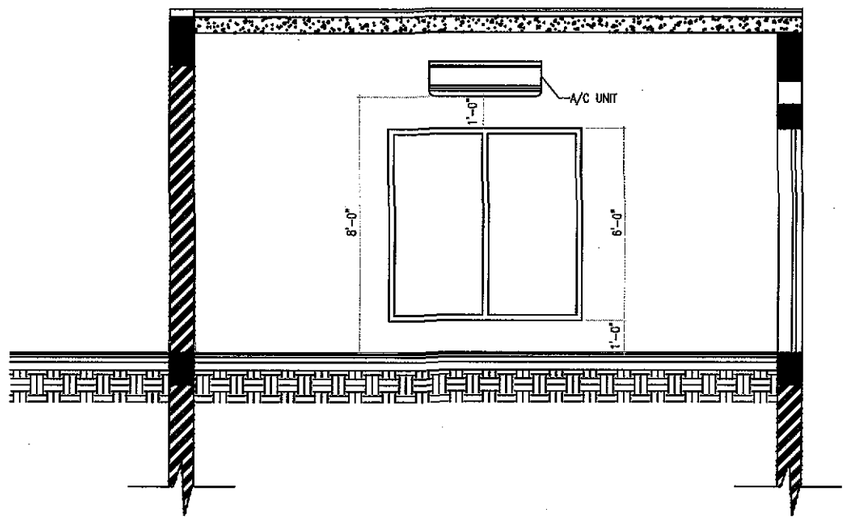
GROUND FLOOR PLAN A/C
WEIGH STATION

DESIGN BY: Z I SHEIKH	SHEET NO: 05 OF 07
DRAWN BY: AFNAN SALEEM	SCALE: 1:20
CHECKED BY: FAHIM A KHAN	DATE: NOV, 2020
APPROVED BY: FAHIM A KHAN	REVISION: REV. 00

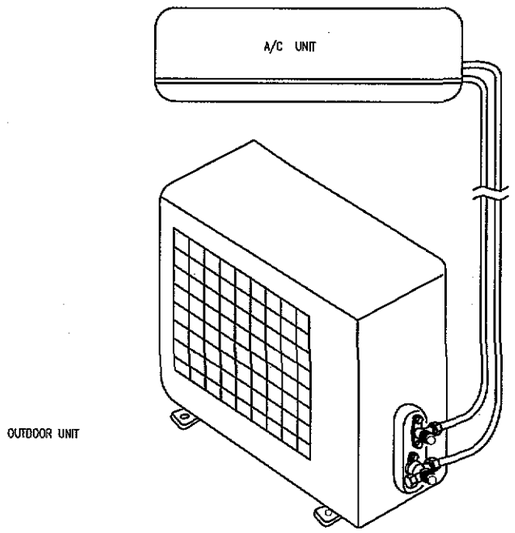
CAD FILE NAME:
ZI/KA/NK/06 TP/WS/P/F/A-05



TYPICAL INSTALLATION DETAIL OF A/C UNIT



ELEVATION



DETAIL OF A/C CONNECTION

NOTES

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LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

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MINISTRY OF COMMUNICATIONS
NATIONAL HIGHWAY AUTHORITY
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IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT
& ARCHITECTS.

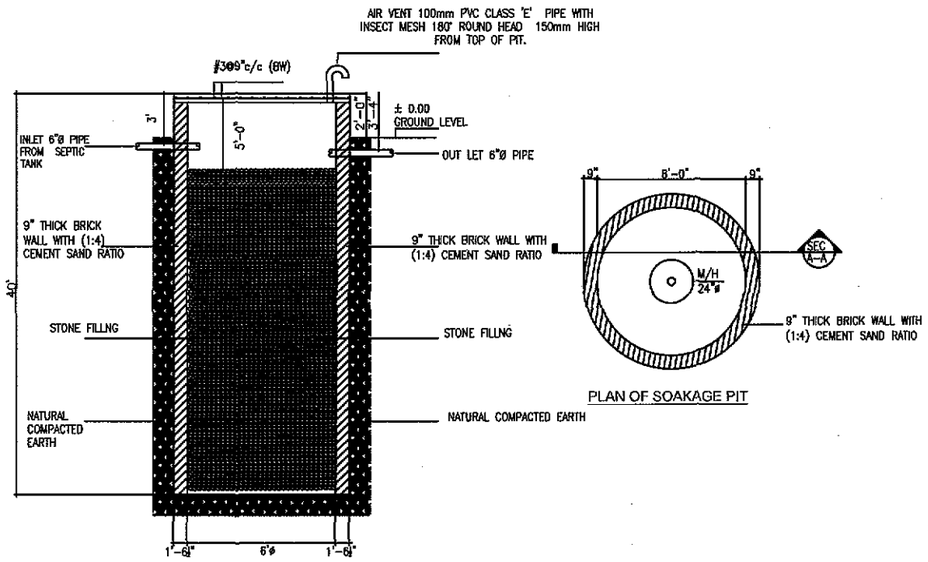
DRAWING TITLE:

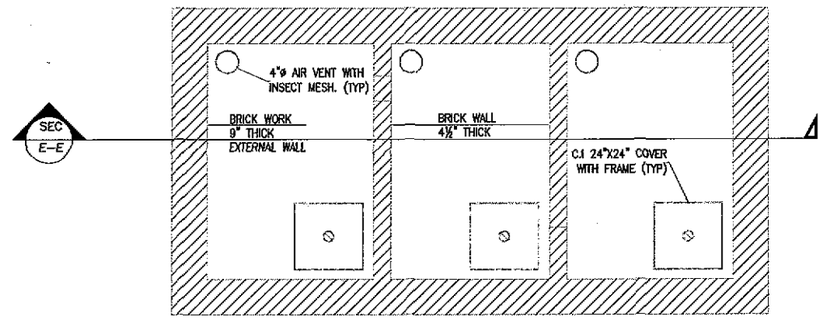
TYPICAL DETAILS OF A/C WEIGH STATION

DESIGN BY: Z I SHEIKH	SHEET NO: 06 OF 07
DRAWN BY: AFNAN SALEEM	SCALE: 1:20
CHECKED BY: FAHIM A KHAN	DATE: NOV, 2020
APPROVED BY: FAHIM A KHAN	REVISION: REV. 00

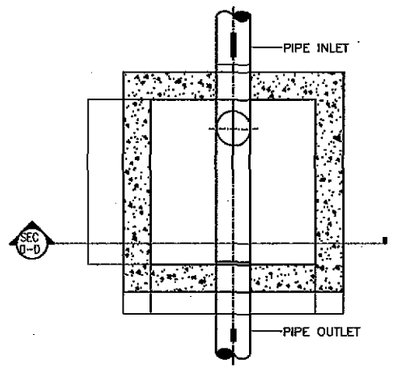
CAD FILE NAME:

ZI/KA/NK/06 TP/WS/P/F/A-06

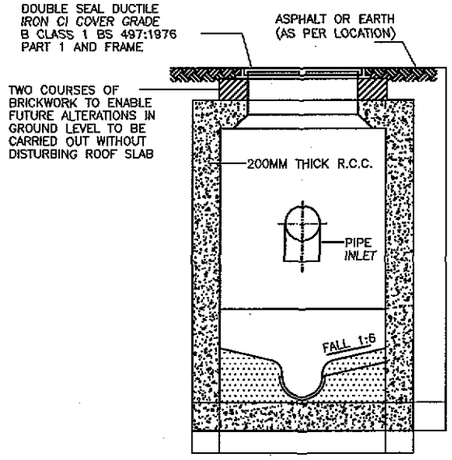




PLAN OF SEPTIC TANK

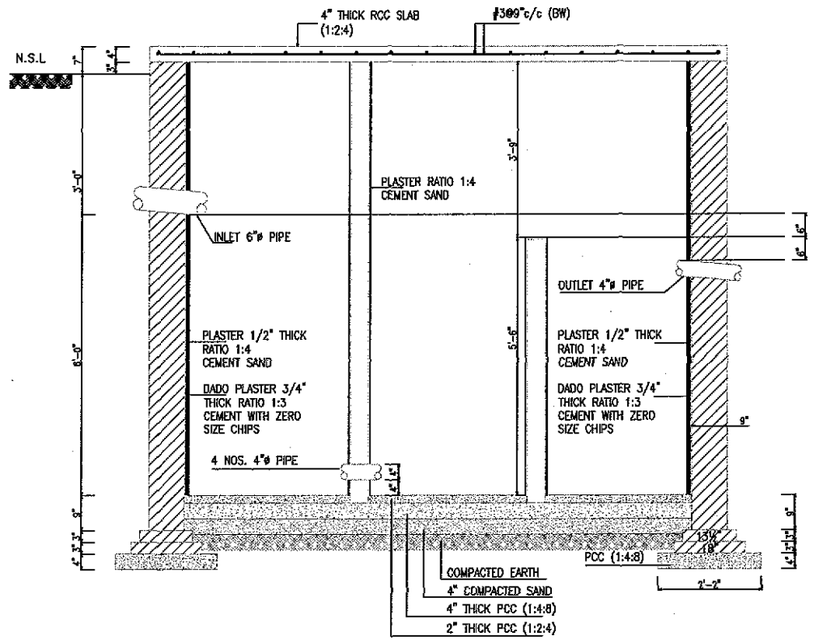


PLAN



SECTION D-D

DETAIL OF MANHOLE



SECTION E-E

NOTES

ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE MENTIONED.

LEGEND

ABBREVIATIONS

00		
	REVISION/ISSUE	

PROJECT:

DETAILED DESIGN FOR CONSTRUCTION OF ROAD FROM NAUKANDI TO MASHKHEL

CLIENT :

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IN ASSOCIATION WITH :

KASIB ASSOCIATES
ENGINEER,CONSULTANT & ARCHITECTS.

DRAWING TITLE:

TYPICAL DETAILS OF PLUMBING WEIGH STATION

DESIGN BY:	SHEET NO:
Z I SHEIKH	07 OF 07
DRAWN BY:	SCALE:
AFNAN SALEEM	1:100
CHECKED BY:	DATE:
FAHIM A KHAN	NOV, 2020
APPROVED BY:	REVISION:
FAHIM A KHAN	REV. 00

CAD FILE NAME:

ZI/KA/NKJ/06 TP/WS/P/F/A-07