

PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)

**"(INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE)"**

**(Road Network, Boundary Wall & Gate, Water Supply &
Sewerage Network and Electrical Infrastructure)**

**TENDER DRAWINGS
(VOLUME-IV)**

MAY, 2025

ROAD NETWORK

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PROJECT:
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INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
ROADS NETWORK
LIST OF DRAWINGS

ORIGINAL :

A2

DATE :

JULY, 2021

SCALE :

DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
22-12-2021	TENDER DRAWINGS	TAHR	ENGR SHEHZOBE	ENGR ARSLAN
26-05-2025	TENDER DRAWINGS	SAGLAN	ENGR SHEHZOBE	ENGR RAMEEZ

DRAWING N°:
NFIP-R-LOD-1000

SHEET
REV
01

CLIENT:



PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN.
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GENERAL NOTES

1.

ALL LINER DIMENSIONS AND UNITS ARE IN DECIMAL M OR MM WHERE AS ANGULAR MEASUREMENTS ARE IN DEGREES, MINUTES AND SECONDS (360 TO A CIRCLE), EXCEPT WHERE OTHERWISE INDICATED ON PLAN & PROFILE AND TYPICAL CROSS SECTION DRAWINGS. ALL GENERAL DETAIL DRAWINGS ARE IN METERS AND MILLIMETERS.
2.

ELEVATIONS AND TOPOGRAPHY SHOWN ON THE DRAWINGS REPRESENT CONDITIONS AT THE TIME OF SURVEY CARRIED OUT IN AUGUST, 2021.
3.

GRID COORDINATES & ELEVATIONS ARE BASED ON SURVEY GRID AND DATUM AS ESTABLISHED BY BM VALUES.
4.

EACH DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS.
5.

NOTES AND LEGEND SHOWN ON THE SPECIFIC DRAWING PERTAIN TO THAT DRAWING AND TO OTHER IF REFERRED.
6.

ANY CONFLICT FOUND BETWEEN DRAWINGS SHALL BE BROUGHT TO KNOWLEDGE OF THE ENGINEER FOR HIS CLARIFICATION AND INSTRUCTIONS BEFORE PROCEEDING WITH THE WORK.
7.

CONTRACTOR SHALL CARRY OUT THE PRE-WORK SURVEY AND VERIFY THE EXISTING LEVELS JOINTLY WITH THE ENGINEER.
8.

UNLESS OTHERWISE INDICATED, SECTIONS ARE SHOWN IN THE DIRECTION OF INCREASING STATIONS.
9.

MODIFIED MARSHALL METHOD FOR MIX DESIGN SHALL BE ADOPTED.
10.

PRIME COAT AND TACK COAT SHALL BE APPLIED ON TOP OF AGGREGATE BASE COURSE AND ASPHALT BASE / BINDER COURSE LAYERS PRIOR TO LAYING OF OTHER LAYER MATERIAL ON IT
11.

STRUCTURES SHOWN ON PLAN & PROFILE ARE SYMBOLIC. FOR DETAIL OF STRUCTURES AND PROTECTION WORKS, REFER RELEVANT DRAWING.
12.

FOR PAVEMENT MARKING AND ROAD SIGNS CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS FOR APPROVAL OF THE ENGINEER.
13.

CONCRETE CURB STONES, PAVEMENT STUDS AND OTHER ANCILLARY ITEMS SHALL BE PROVIDED AS PER THE BOQ ITEMS OR AS PER SITE REQUIREMENT OR AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL PREPARE THE SHOP DRAWINGS FOR EACH ACTIVITY LOCATION ALONG WITH METHODOLOGY AND SHALL SUBMIT FOR APPROVAL TO THE ENGINEER PRIOR TO START OF CONSTRUCTION.
14.

FOUNDATION BASE OF STRUCTURES SHALL BE PLACED ON FIRM / HARD / ROCKY STRATA OR AS DIRECTED BY THE ENGINEER.
15.

UNSUITABLE SOILS WHICH DO NOT MEET SPECIFIED REQUIREMENTS SHALL BE REMOVED AND REPLACED WITH SUITABLE SOILS AS PER ROAD CROSS SECTION DRAWING OR TO DEPTH AS DIRECTED BY THE ENGINEER.
16.

750MM ROAD SIGNS SHALL BE USED ALONG MAIN ROADS WHEREAS 600MM ROAD SIGNS SHALL BE USED ALONG STREETS.
17.

FOR PURPOSES OF THE CONTRACT, THE ADDITIONAL PLANS AND DRAWINGS SHALL BE ISSUED TO THE CONTRACTOR DURING THE COURSE OF HIS WORKS AS DEEMED NECESSARY BY THE ENGINEER.
18.

BITUMEN COATING (2 COATS) SHALL BE APPLIED ON CONCRETE WORKS FACING BACKFILL MATERIAL / EARTHEN FACE .
19.

ASPHALT LAYERS SHALL NOT BE LAID DURING CONSTRUCTION ON MAIN ROADS AND SURFACE ONLY UP TO PRIME COAT SHALL BE DONE TO PREVENT SURFACE ASPHALT FROM

- CONSTRUCTION EQUIPMENT / VEHICLE LOAD DAMAGES.
20.

CONSTRUCTION VEHICLE SHALL NOT RUN ON FINISHED ROAD SURFACE. IN CASE OF NEGLIGENCE, CONTRACTOR HAS TO REPAIR DAMAGES TO FINISHED ASPHALT SURFACE AT HIS OWN COST.
21.

THE CONTRACTOR SHALL NOT BLOCK ACCESS TO ANY EXISTING COMMERCIAL / RESIDENTIAL AREAS WITHIN THE CONSTRUCTION ZONE AT ANY TIME.
22.

THE CONSTRUCTION OF FOOTPATH AND GREEN BELT WILL BE UNDERTAKEN AFTER LAYING OF THE RESPECTIVE UTILITIES / SERVICES.
23.

THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH THE LAYING UNDERGROUND UTILITIES SERVICES BY THE RESPECTIVE DEPARTMENT / OTHER CONTRACTORS.
24.

THE CONTRACTOR SHALL ENSURE PRIOR APPROVAL FROM THE ENGINEER FOR CUTTING / REMOVAL OF TREES.
25.

THE ROAD PROFILE / CROSS SECTION SHALL BE ADJUSTED AT INTERSECTIONS / JUNCTIONS.

METHODOLOGY FOR ROAD CONSTRUCTION (WHERE SUB-BASE/AGGREGATE BASE COURSE IS ALREADY LAID)

1.

EXISTING LAID SUB-BASE AND BASE COURSE SHALL BE SCARIFIED AND MATERIAL SHALL BE REUSED.
2.

METHOD FOR SCARIFICATION OF SUB-BASE AND AGGREGATE BASE COURSE SHALL BE PROPOSED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER, IN ACCORDANCE WITH THE REQUIREMENTS OF SITE SITUATION.
3.

SUB-BASE AND AGGREGATE BASE MATERIAL, AFTER SCARIFICATION, SHALL BE REMOVED AND DUMPED OUTSIDE THE RIGHT-OF-WAY OF ROADS, IN ACCORDANCE WITH THE SATISFACTION OF THE ENGINEER. BOTH MATERIALS SHALL BE DUMPED SEPARATELY SO AS TO AVOID INTER-MIXING OF MATERIALS.
4.

THE SCARIFIED & DUMPED SUB-BASE MATERIAL SHALL BE USED AGAIN IN THE CONSTRUCTION OF ROADS AS SUB-BASE MATERIAL. THE EXISTING SUB-BASE MATERIAL CAN ALSO BE MIXED WITH NEW SUB-BASE MATERIAL SO AS TO ACHIEVE THE DESIRED MATERIAL SPECIFICATIONS AS INCLUDED IN THE CONTRACT.
5.

SIMILARLY, SCARIFIED & DUMPED AGGREGATE BASE MATERIAL SHALL BE USED AGAIN IN THE CONSTRUCTION OF ROADS AS AGGREGATE BASE MATERIAL. THE EXISTING AGGREGATE BASE MATERIAL CAN ALSO BE MIXED WITH NEW AGGREGATE BASE MATERIAL SO AS TO ACHIEVE THE DESIRED MATERIAL SPECIFICATIONS AS INCLUDED IN THE CONTRACT.
6.

BOTH SUB-BASE AND AGGREGATE BASE COURSES SHALL BE LAID WITH THESE SCARIFIED MATERIALS. THE ADDITIONAL MATERIALS REQUIRED SO AS TO ACHIEVE THE DESIRED THICKNESS OF SUB-BASE/AGGREGATE BASE, AS INCLUDED IN THE DRAWINGS, SHALL BE PROCURED FROM THE APPROVED QUARRIES.
7.

MEASUREMENT AND PAYMENT FOR SCARIFICATION, DUMPING AND MIXING SHALL BE MADE FOR ITEMS AS INCLUDED IN THE BILL OF QUANTITIES.

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NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:

ROADS NETWORK
GENERAL NOTES

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	TAHR	ENGR SHEHROZE	ENGR ARSLAN	

DRAWING N°:

NFIP-R-GN-1001

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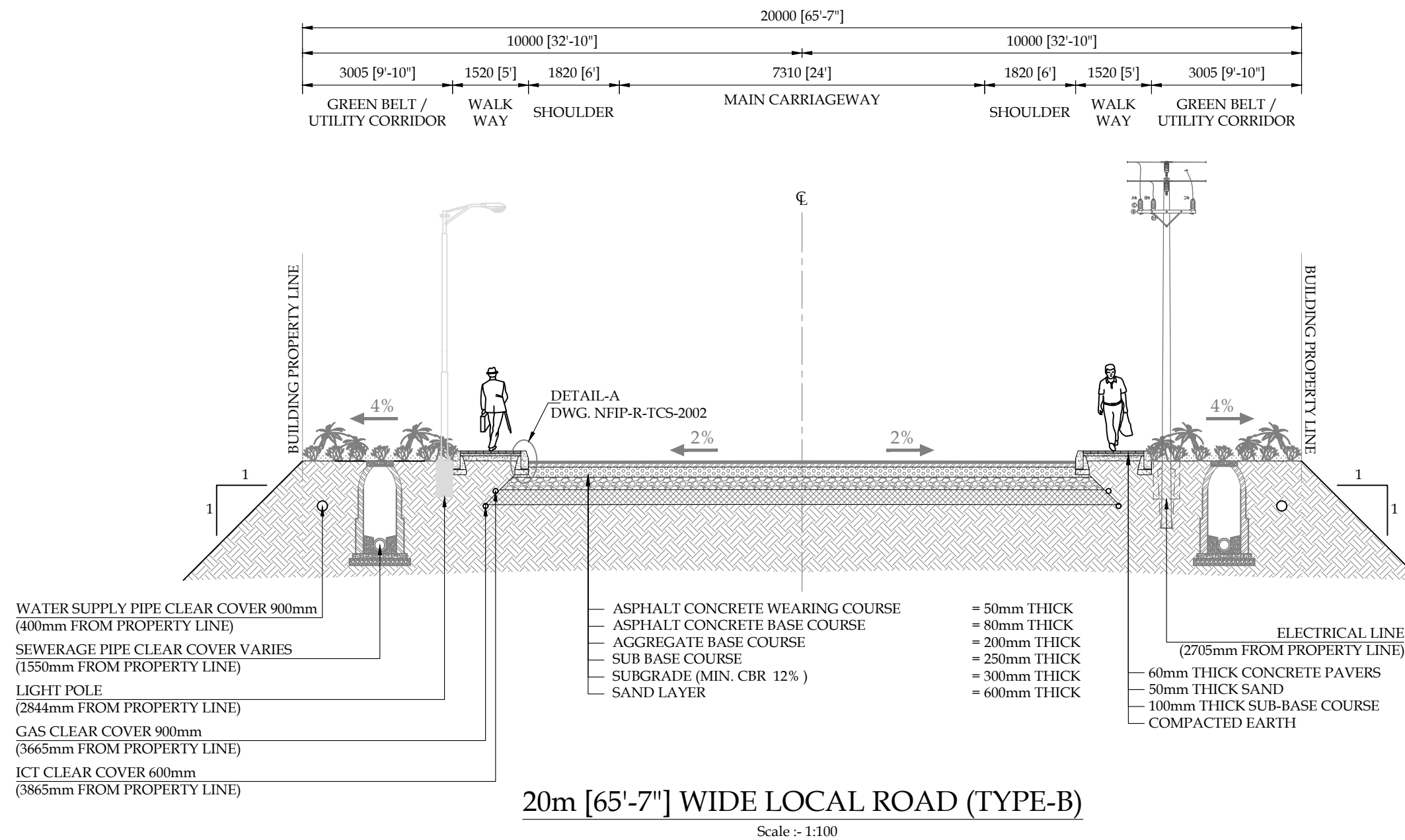
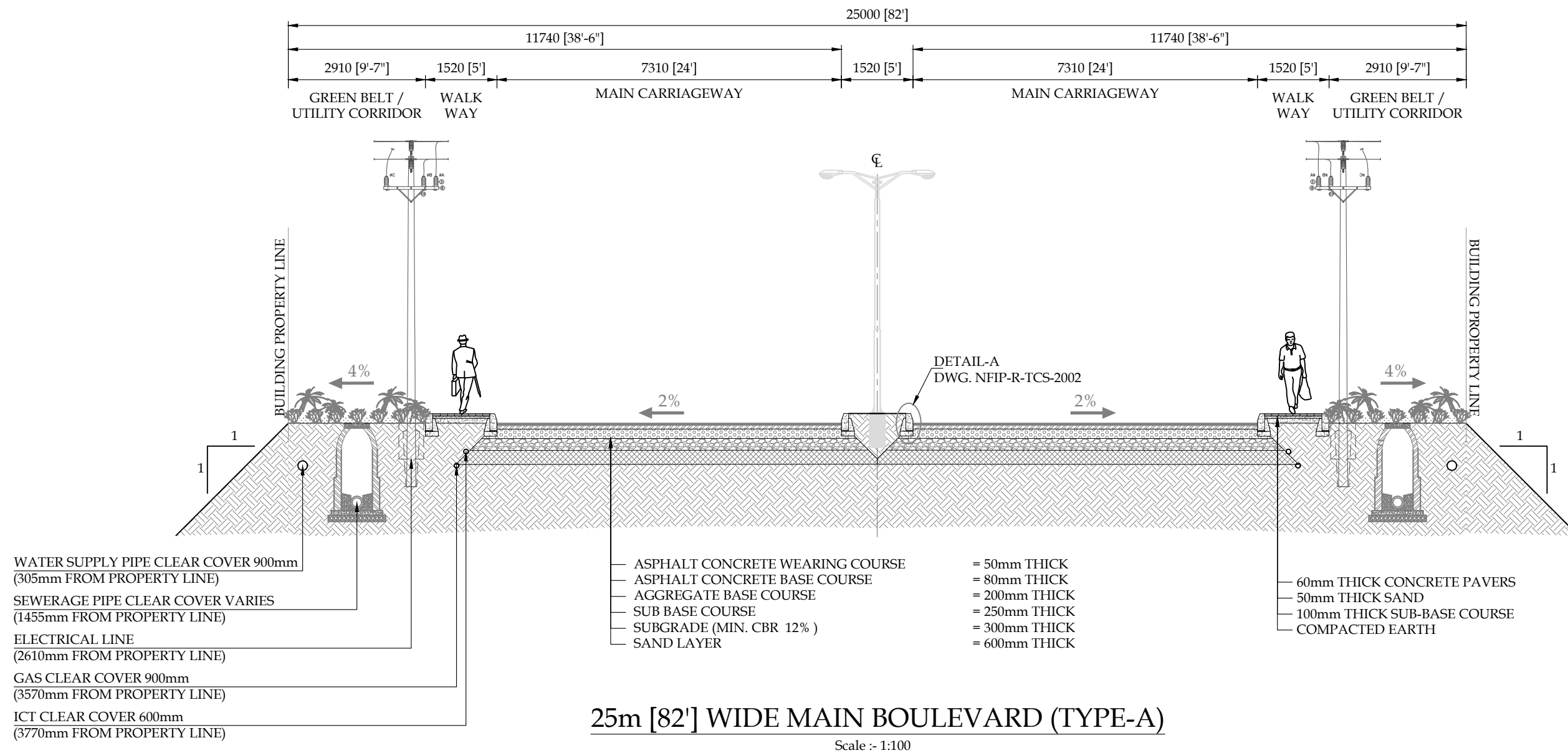
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PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
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TYPICAL CROSS SECTION



- NOTES**
1. ALL DIMENSIONS AND DISTANCES SHOWN ON TYPICAL X-SECTION DRAWING ARE IN MILLIMETERS UNLESS OTHERWISE STATED.
 2. FOR ROAD LAYOUT PLAN REFER RELEVANT DRAWINGS.
 3. **SIDE SLOPES**
CUT SLOPE = 1:1 (H:V)
FILL SLOPE = 2:1 (H:V)
 4. FOR DETAILS OF STORM WATER DRAINAGE, SEWERAGE NETWORK AND WATER SUPPLY NETWORK REFER RELEVANT DRAWINGS.
 5. FOR ROAD WHERE PAVEMENT STRUCTURE HAS ALREADY BEEN LAID ON SITE, CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE THE LAYERS (ON TOP OF SUB-GRADE) TO BE RELAYED AGAIN.
 6. ONCE THE MATERIAL WILL BE REMOVED, STRUCTURE WILL BE RELAYED AS PER CROSS-SECTIONS AND LONGITUDINAL PROFILES.

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SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
ROADS NETWORK
TYPICAL ROAD CROSS SECTION
25m WIDE (TYPE-A) & 20m WIDE (TYPE-B)

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	TAHR	ENGJR SHEHROZE	ENGJR ARSLAN	
26-05-2025	TENDER DRAWINGS	SAGLAN	ENGJR SHEHROZE	ENGJR RAMEEZ	

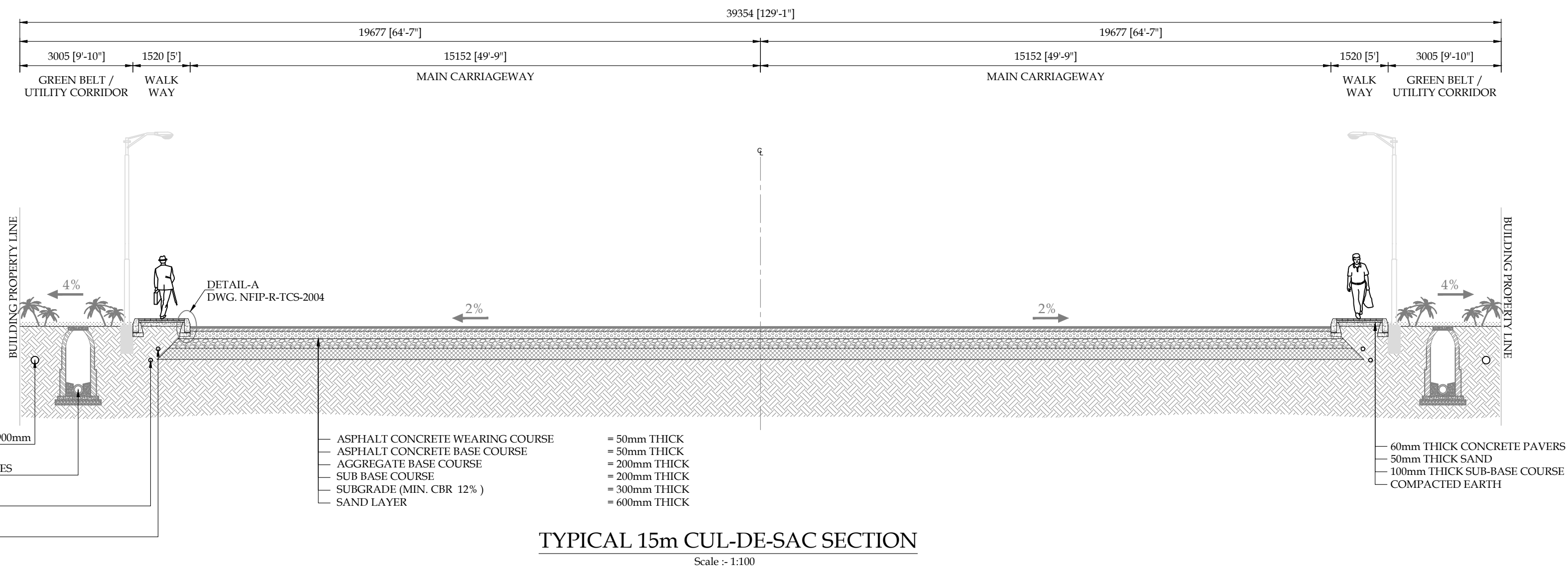
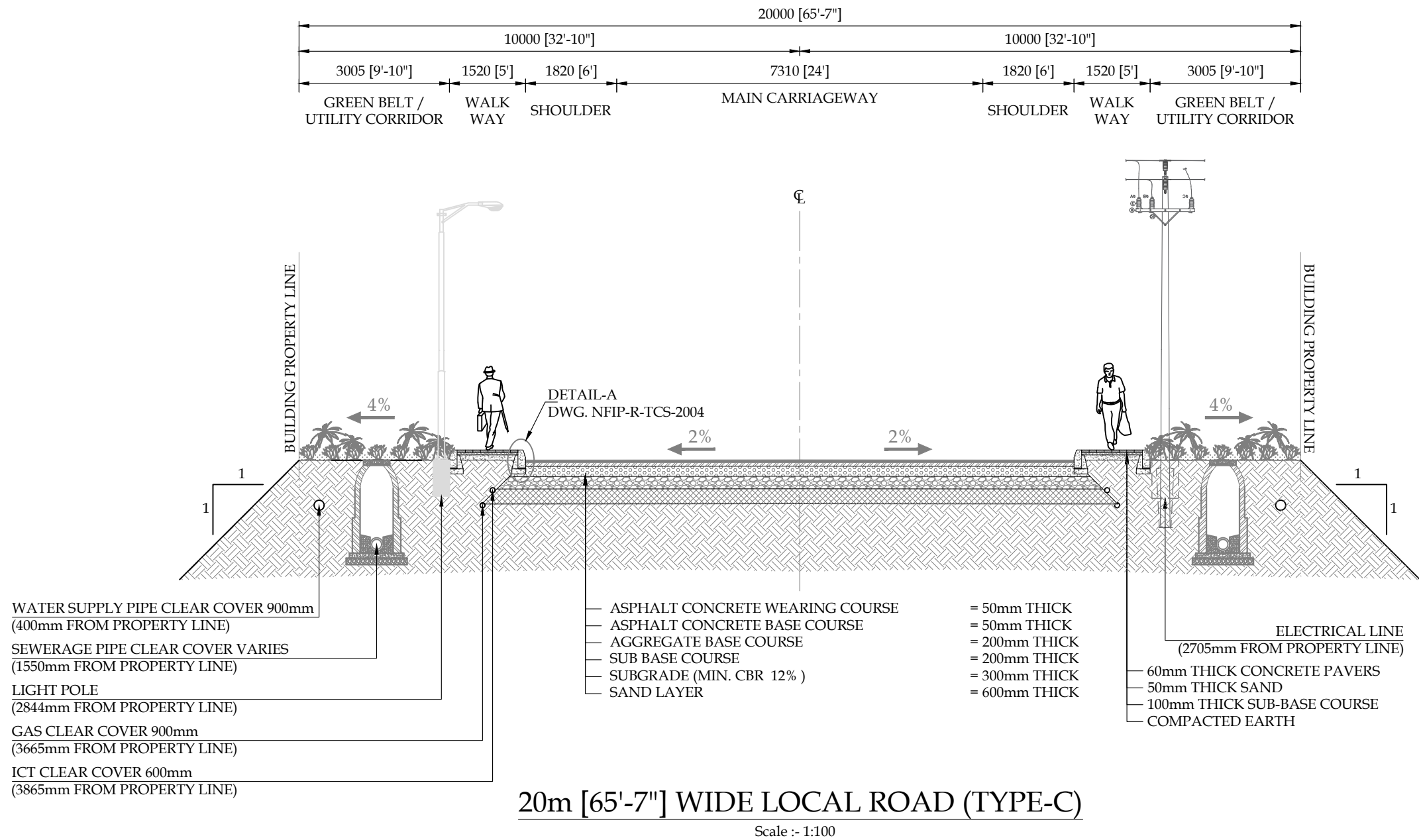
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INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
ROADS NETWORK
TYPICAL ROAD CROSS SECTION
20m WIDE (TYPE-C), 15m CUL-DE-SAC

DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
22-12-2021	TENDER DRAWINGS	TAHR	ENGR SHEHNOZE	ENGR ASHLAN
26-05-2025	TENDER DRAWINGS	SAGLAN	ENGR SHEHNOZE	ENGR RAMEEZ

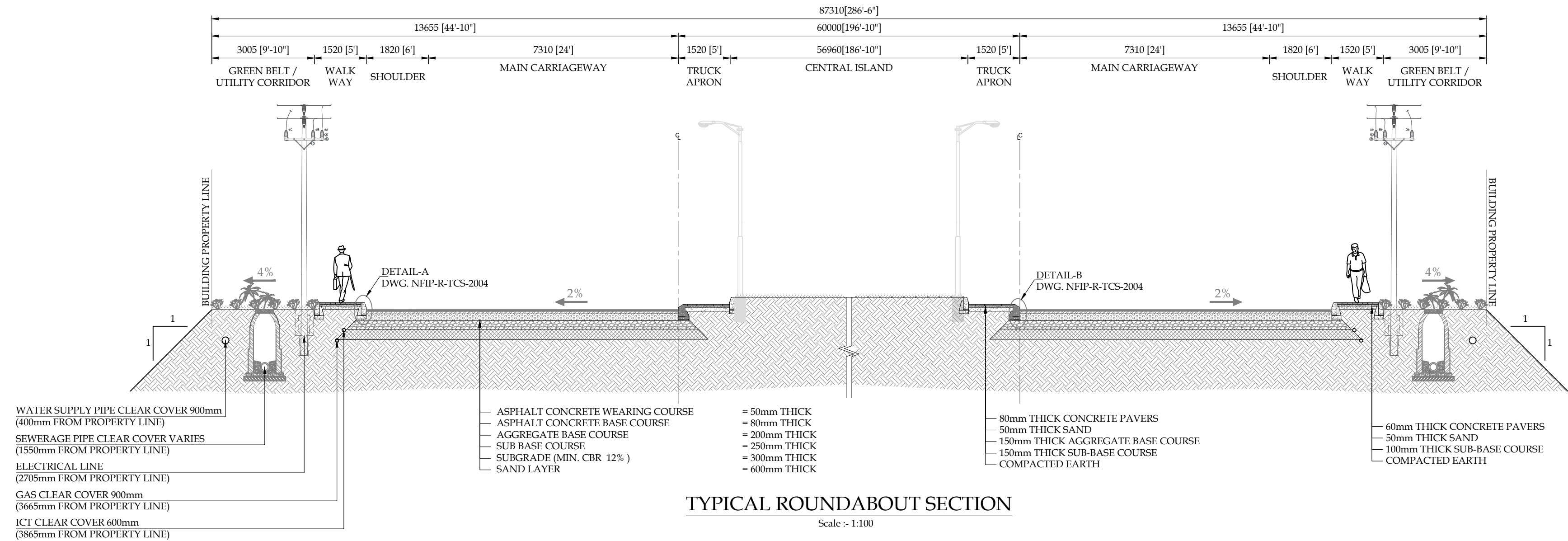
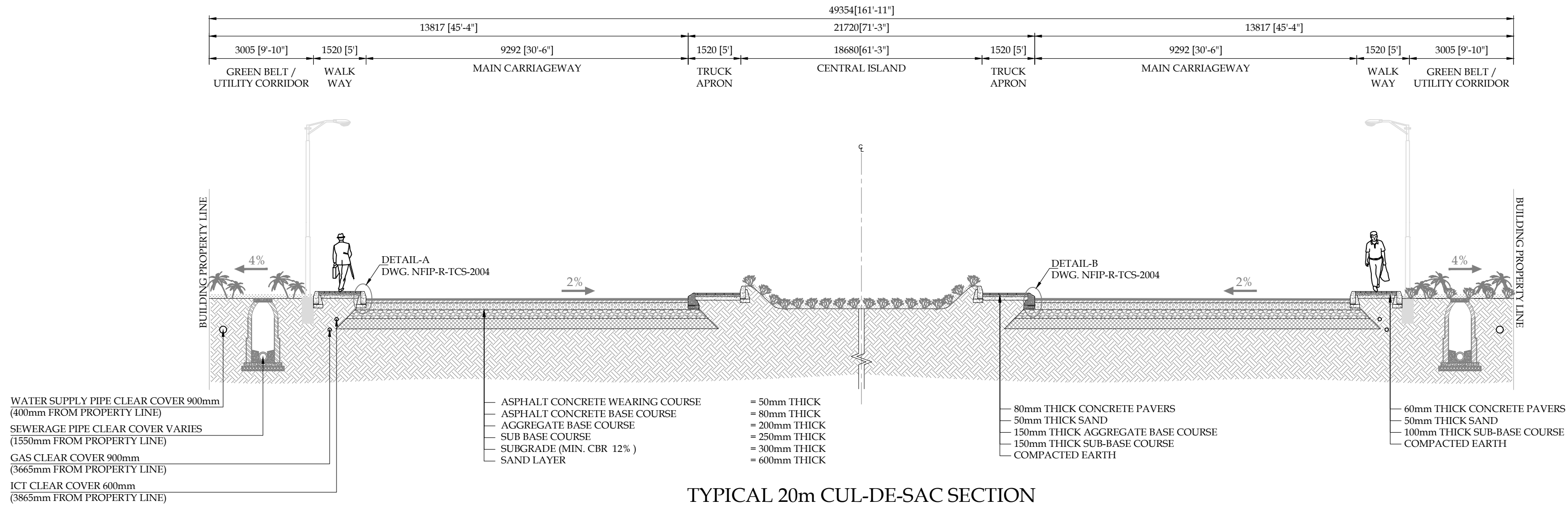
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NFIP-R-TCS-2002

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CLIENT:
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ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:

ROADS NETWORK
TYPICAL ROAD CROSS SECTION
20m CUL-DE-SAC & ROUNDABOUT

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	TAHR	ENGR SHEHZOZE	ENGR ARSLAN	
26-05-2025	TENDER DRAWINGS	SAGLAN	ENGR SHEHZOZE	ENGR RAMEEZ	

DRAWING N°:

NFIP-R-TCS-2003

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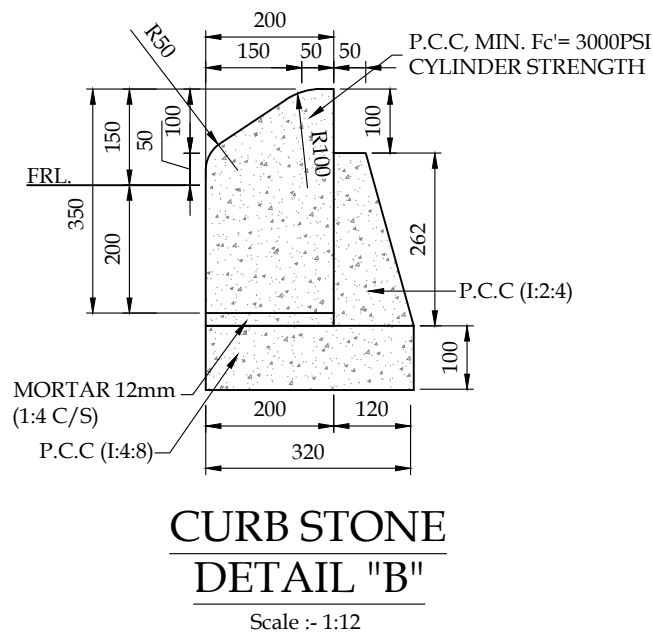
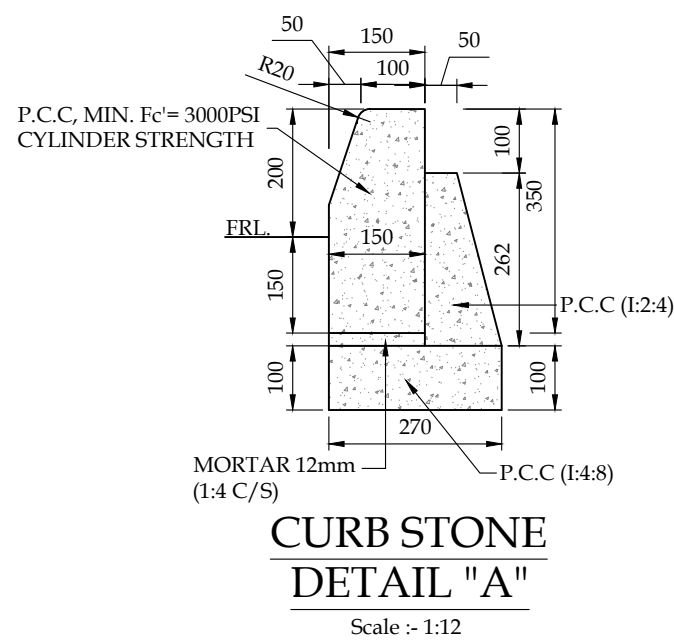
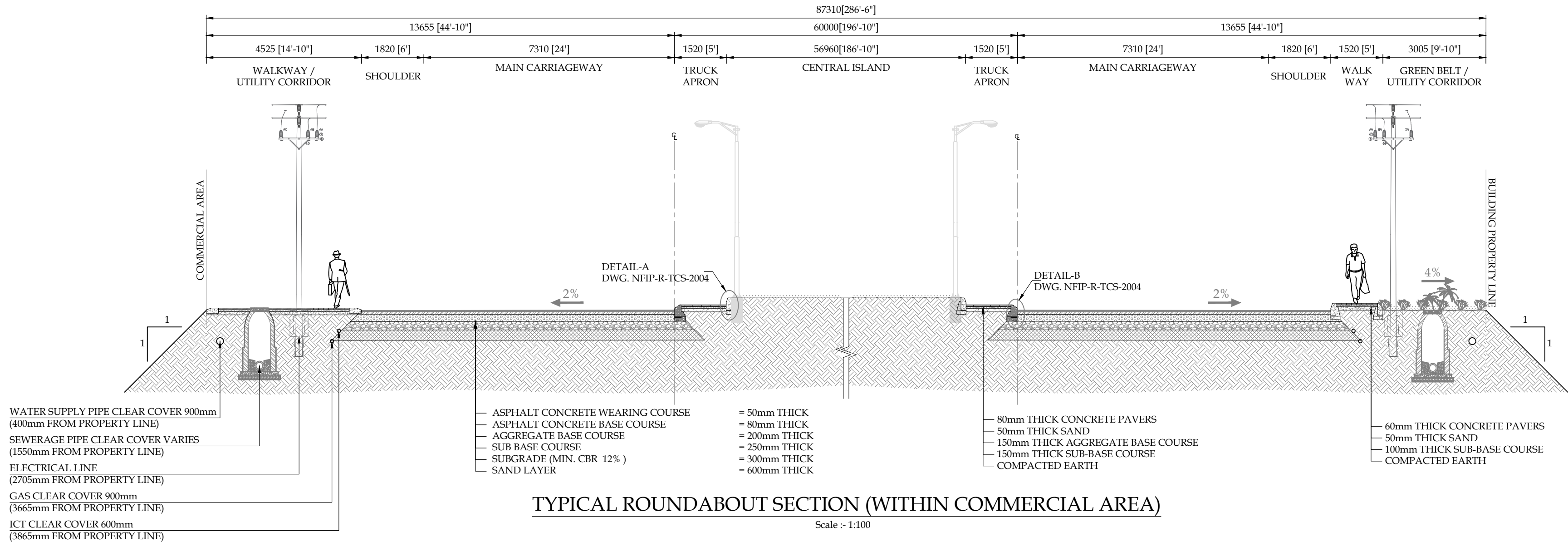
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CLIENT:

 **PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)**
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ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:

ROADS NETWORK
TYPICAL ROAD CROSS SECTION
ROUNDABOUT WITHIN
COMMERCIAL AREA & DETAILS

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
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22-12-2021	TENDER DRAWINGS	TAHR	ENGR SHEHROZE	ENGR. ARSLAN	
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DRAWING N°:

NFIP-R-TCS-2004

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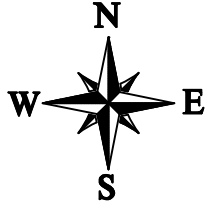
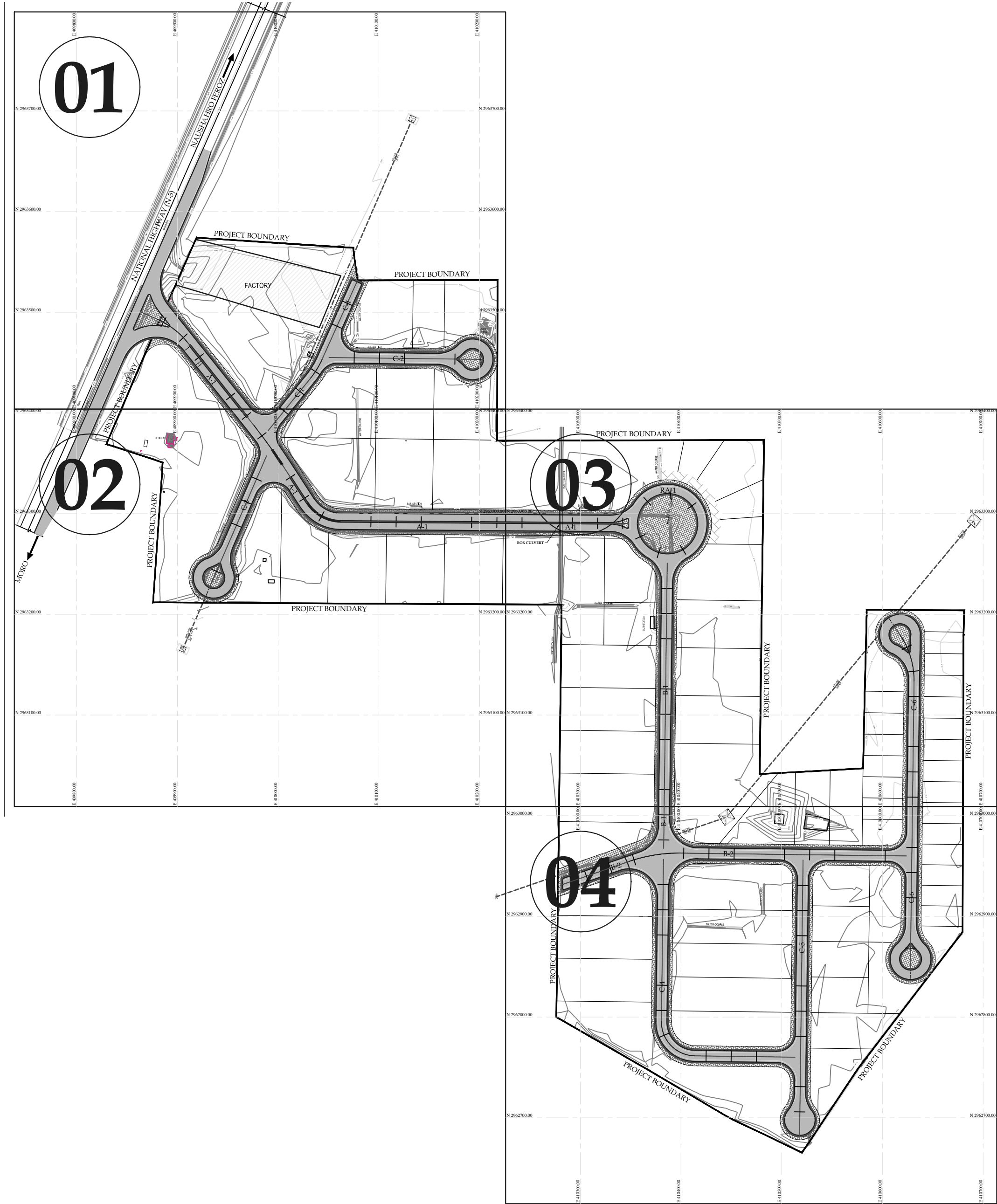
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ROAD LAYOUT



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INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
**ROADS NETWORK
KEY PLAN**

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	TAHR	ENGR. SHEKHARUZZE	ENGR. ARSLAN	

DRAWING N°:
NFIP-R-KP-3000

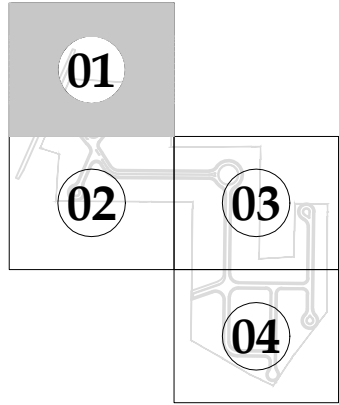
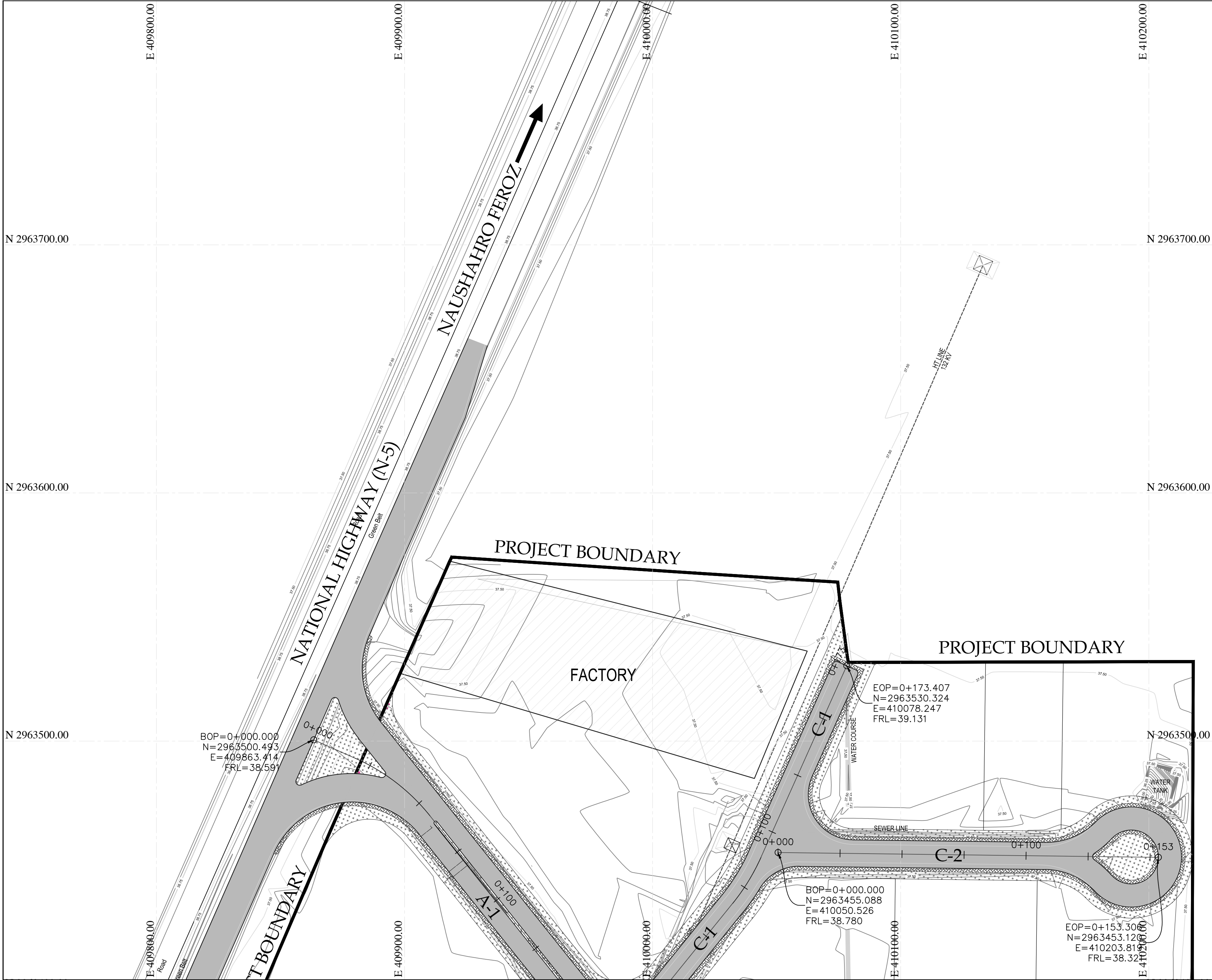
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CONSULTANT:
 **ASIAN CONSULTING ENGINEERS PVT.(LTD)**
C-3 JHELIUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32-142-71101
FAX: +92 42 35450916 WEB: www.asiancon.com

NFIP-R-LP-3001 to
3004(17-12-2021)



KEY PLAN

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
**ROADS NETWORK
LAYOUT PLAN**

ORIGINAL :	DATE :	SCALE :
A2	JULY, 2021	

DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
22-12-2021	TENDER DRAWINGS	TAHR	ENGR. SHEKHROZZE	ENGR. ARSLAN

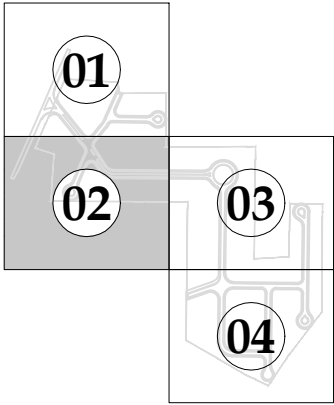
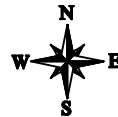
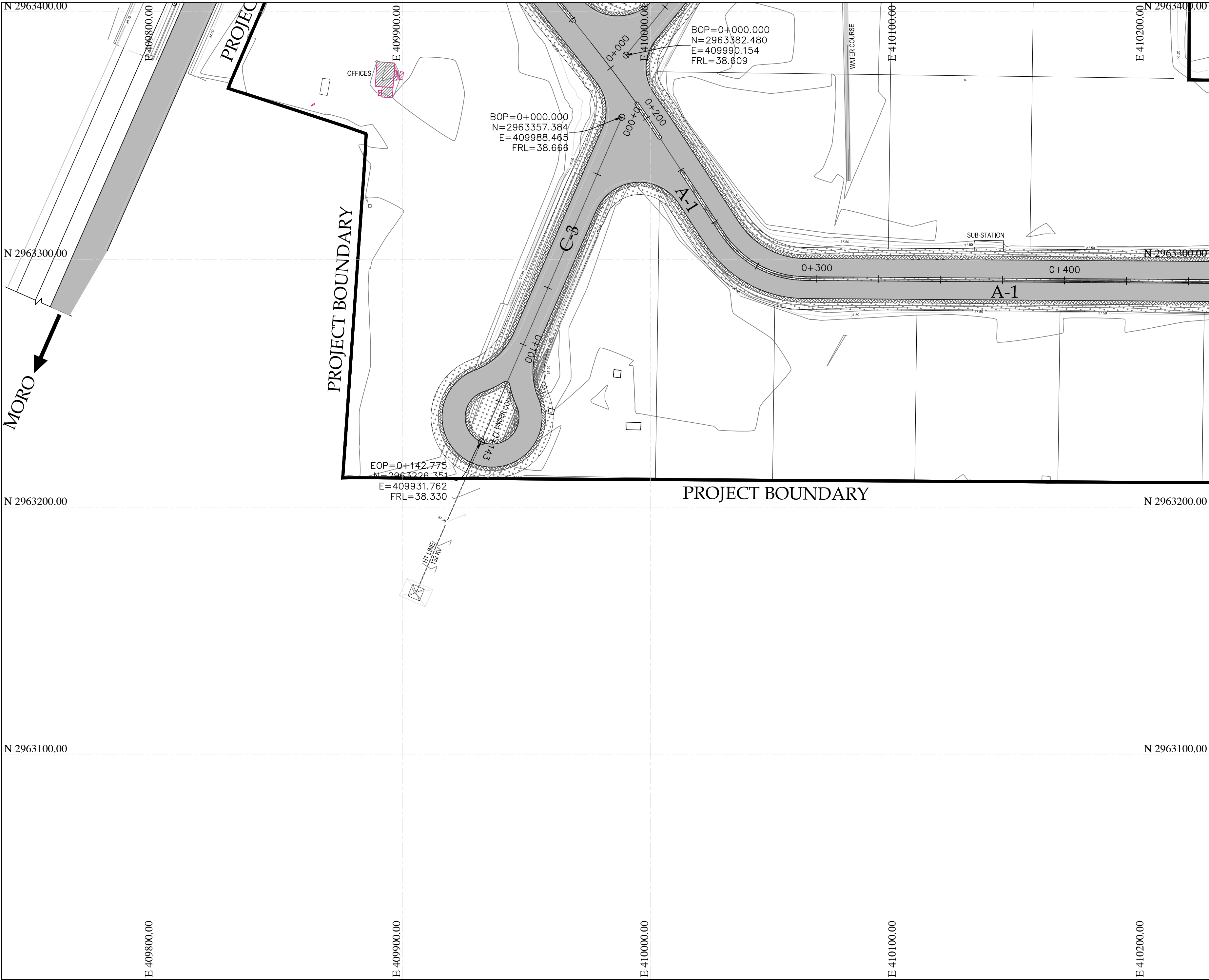
DRAWING N°:
NFIP-R-LP-3001

SHEET
01 OF 04

REV
00

CLIENT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI, PAKISTAN.
PHONE: 021-3568-5041-9

CONSULTANT:
ASIAN CONSULTING ENGINEERS (PVT.) LTD.
C-3 JHELMUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32-142-71101
FAX: +92 42 35450916 WEB: www.asiancon.com



KEY PLAN

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
**ROADS NETWORK
LAYOUT PLAN**

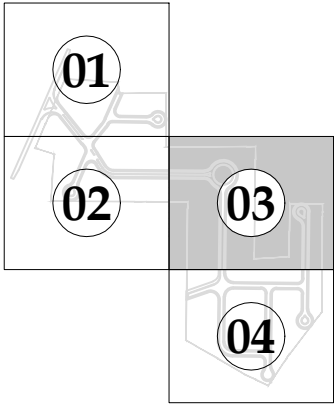
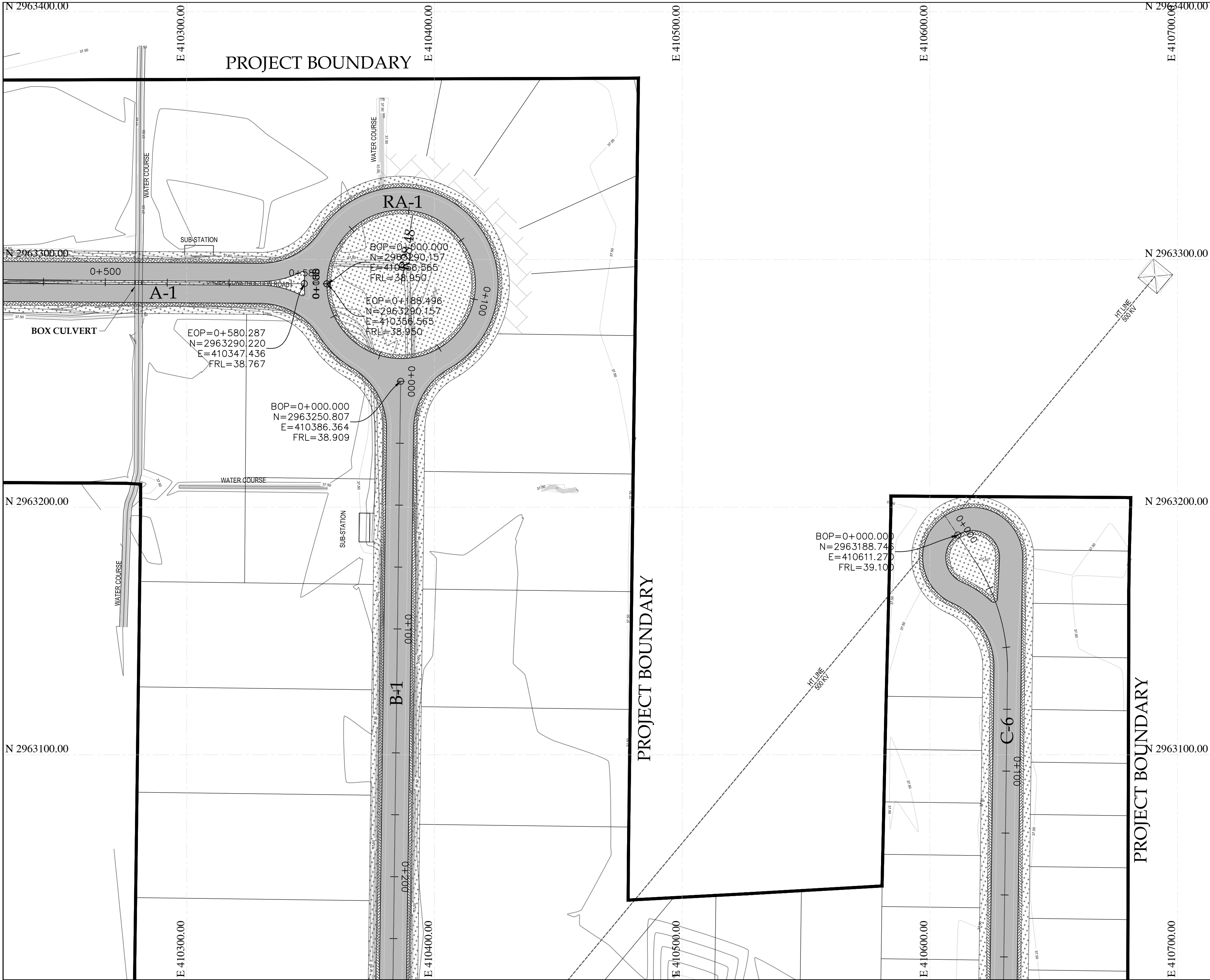
ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	TAHR	ENGR SHEHROZE	ENGR ARSLAN	

DRAWING N°:		SHEET	REV
NFIP-R-LP-3002		02 OF 04	00

CLIENT:
 **PAKISTAN INDUSTRIAL DEVELOPMENT
CORPORATION (PIDC)**
2nd FLOOR, PIDC HOUSE DR, ZIAUDDIN ROAD, KARACHI,
PAKISTAN
PHONE: 021-3568-5041-9

CONSULTANT:
 **ASIAN CONSULTING ENGINEERS PVT.(LTD)**
C-3 JHELMUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32-142-71101
FAX: +92 42 35450916 WEB: www.asiancon.com

NFIP-R-LP-3001 to 3004(17-12-2021)



KEY PLAN

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

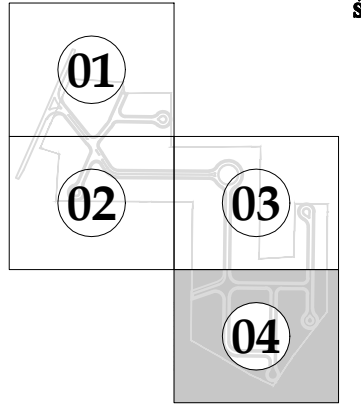
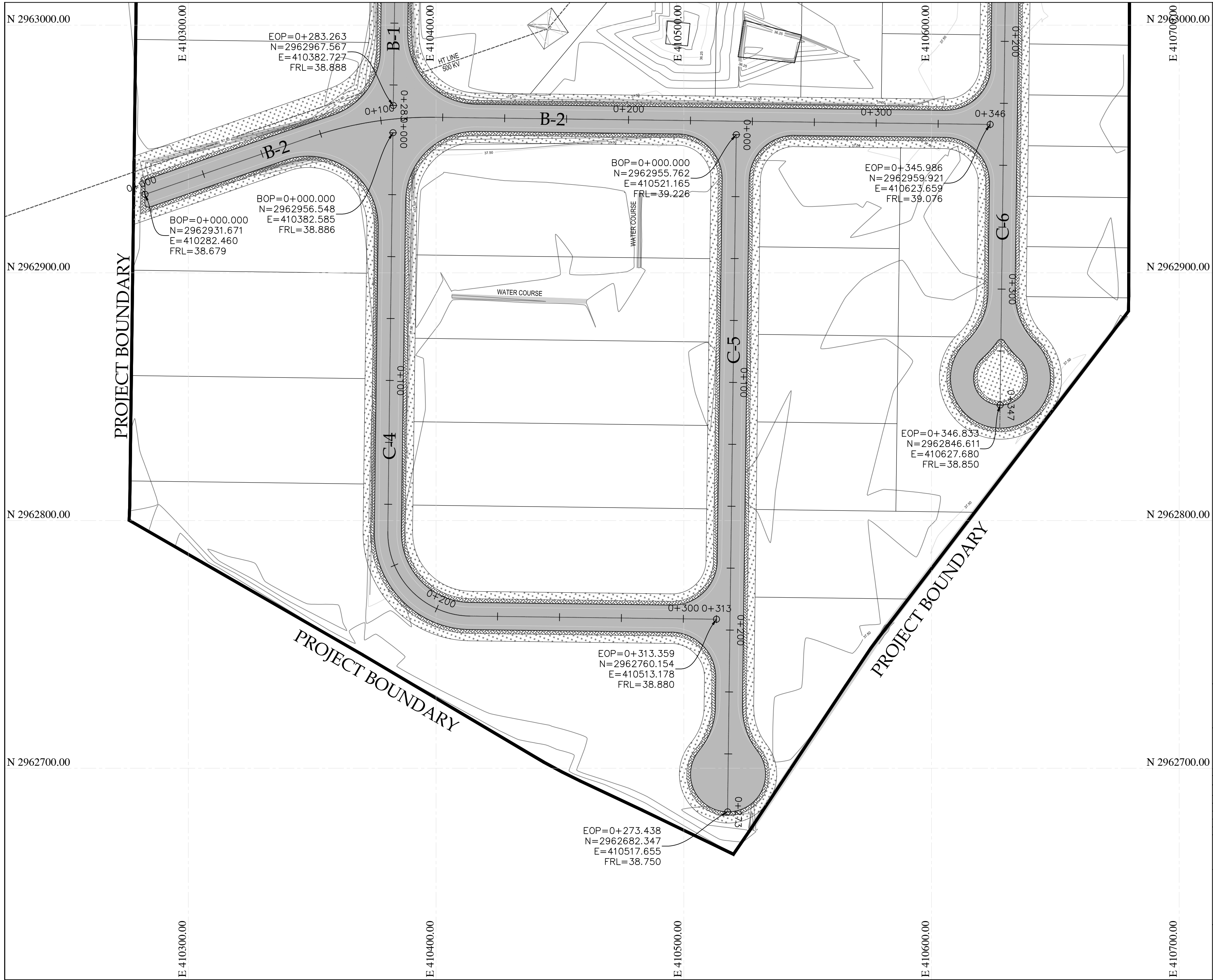
DRAWING TITLE:
**ROADS NETWORK
LAYOUT PLAN**

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	TAHR	ENGR. SHEHROZ	ENGR. ARSLAN	
DRAWING N°:				SHEET	REV
NFIP-R-LP-3003				03 OF 04	00

CLIENT:
 PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN.
PHONE: 021-3568-5041-9

CONSULTANT:
 ASIAN CONSULTING ENGINEERS PVT.(LTD)
C-3 JHELLUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32-142-71101
Fax: +92 42 35450916 WEB: www.asiancon.com

NFIP-R-LP-3001 to
3004(17-12-2021)



KEY PLAN

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
**ROADS NETWORK
LAYOUT PLAN**

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	TAHR	ENGR. SHEKHROZE	ENGR. ARSLAN	

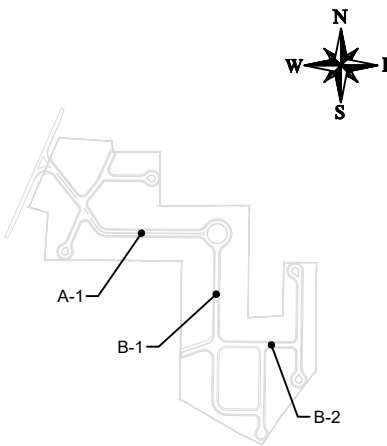
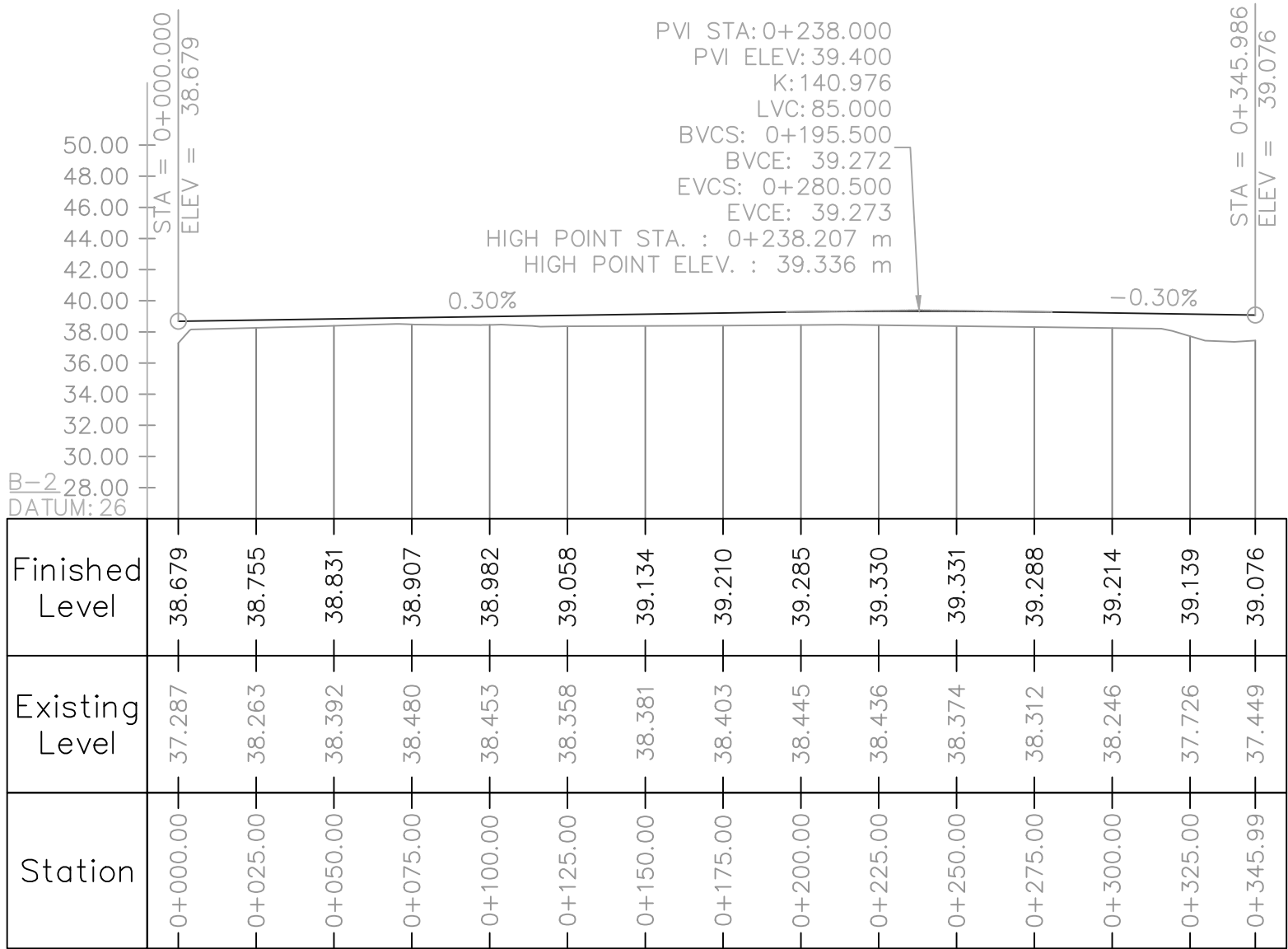
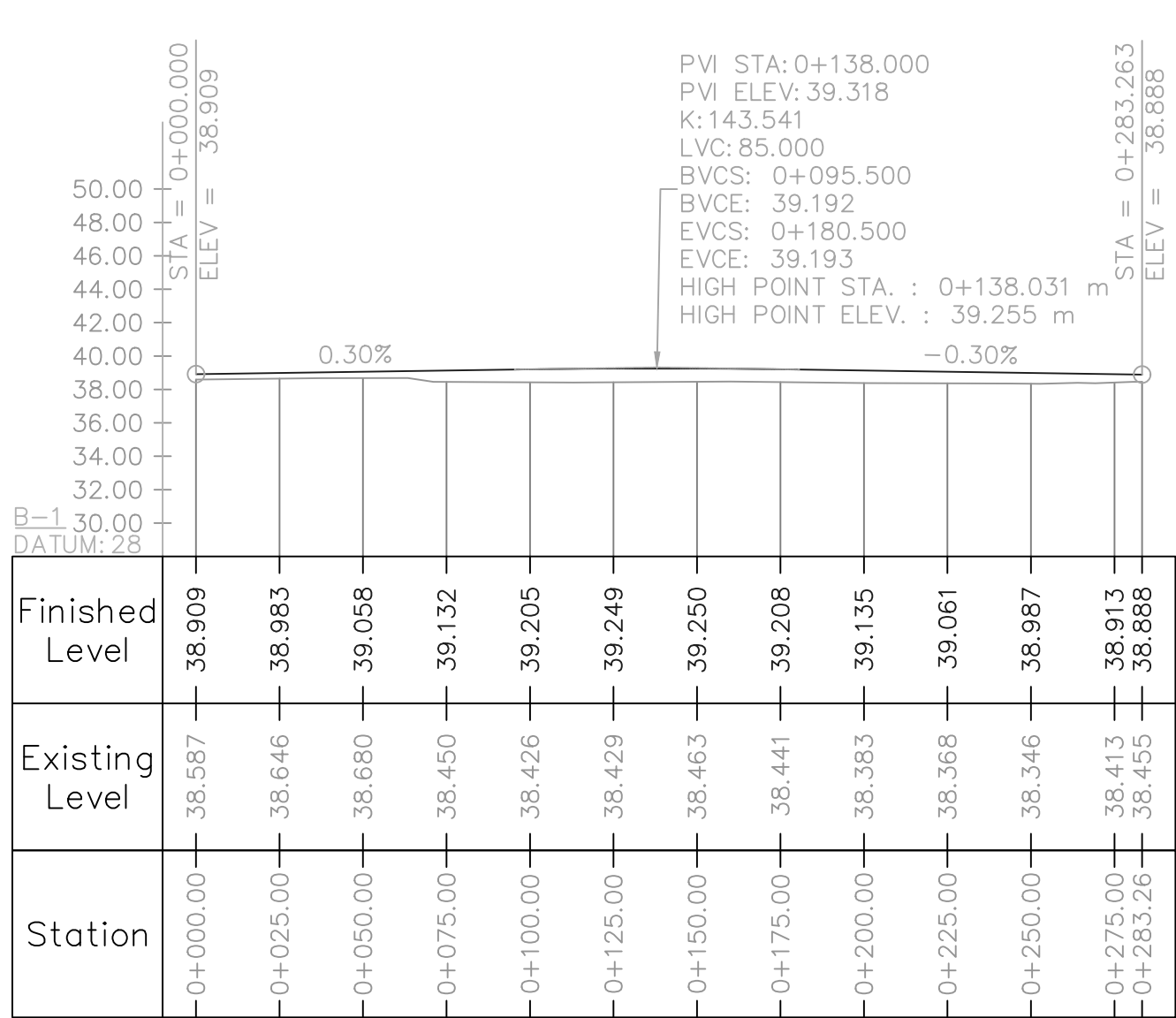
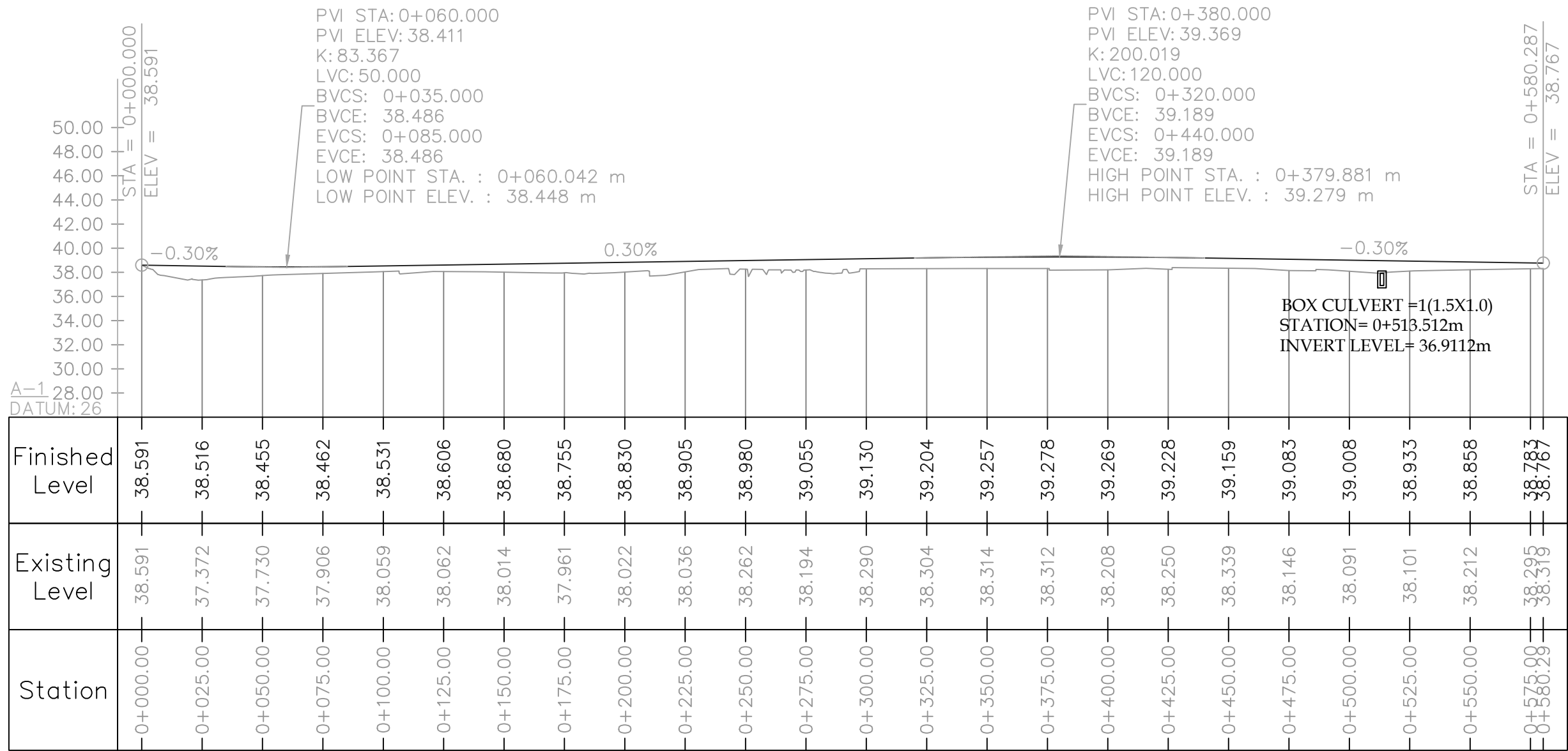
DRAWING N°:
NFIP-R-LP-3004

SHEET
04 OF 04

REV
00

CLIENT:
**PAKISTAN INDUSTRIAL DEVELOPMENT
CORPORATION (PIDC)**
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN.
PHONE: 021-3568-5041-9

CONSULTANT:
ASIAN CONSULTING ENGINEERS PVT.(LTD)
C-3 JHILUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32-142-71101
FAX: +92 42 35450916 WEB: www.asiancon.com



KEY PLAN

NOTES

- ALL DIMENSIONS, CHAINAGES AND LEVELS ARE IN METERS UNLESS INDICATED OTHERWISE.
- FOR ROAD LAYOUT PLAN DETAILS REFER RELEVANT DRAWINGS.
- FOR TYPICAL CROSS SECTION DETAILS REFER RELEVANT DRAWINGS.

LEGEND:

FINISH ROAD LEVEL (FRL) ———
NATURAL GROUND LEVEL (NGL) - - - - -

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FERROZE INDUSTRIAL PARK, NAUSHAHRO FERROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
**ROADS NETWORK
ROAD PROFILES
A-1, B-1 & B-2**

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	TAHR	ENGJR SHEHZOZE	ENGJR ARSLAN	
28-05-2025	TENDER DRAWINGS	SAGLAN	ENGJR SHEHZOZE	ENGJR RAMEEZ	

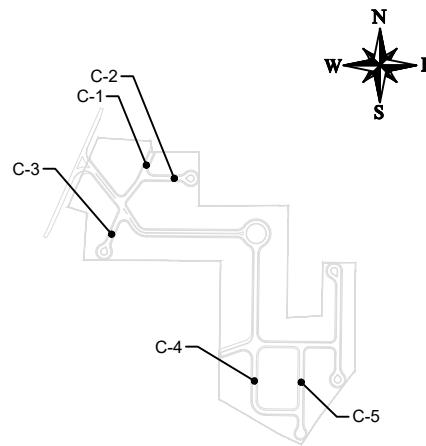
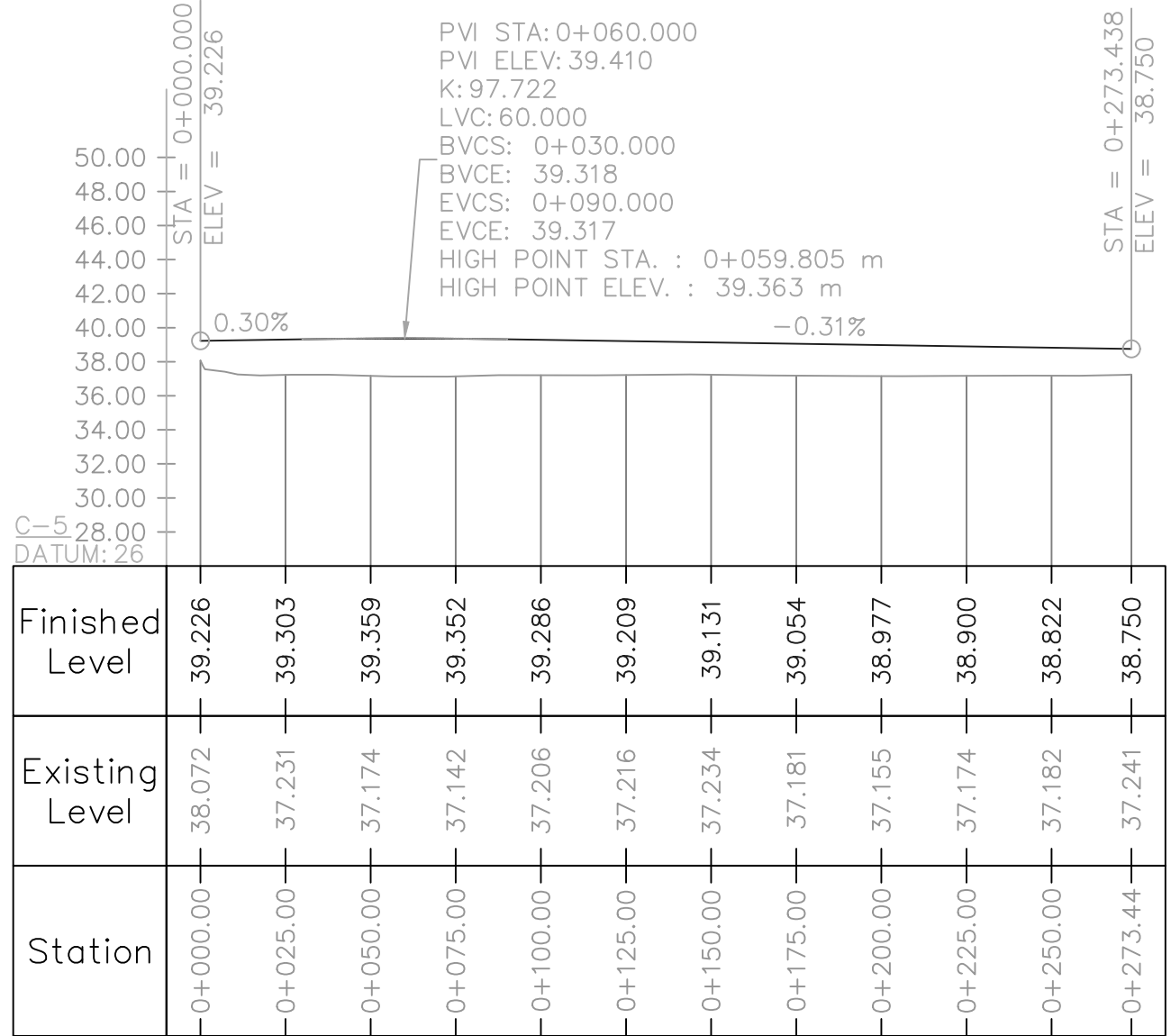
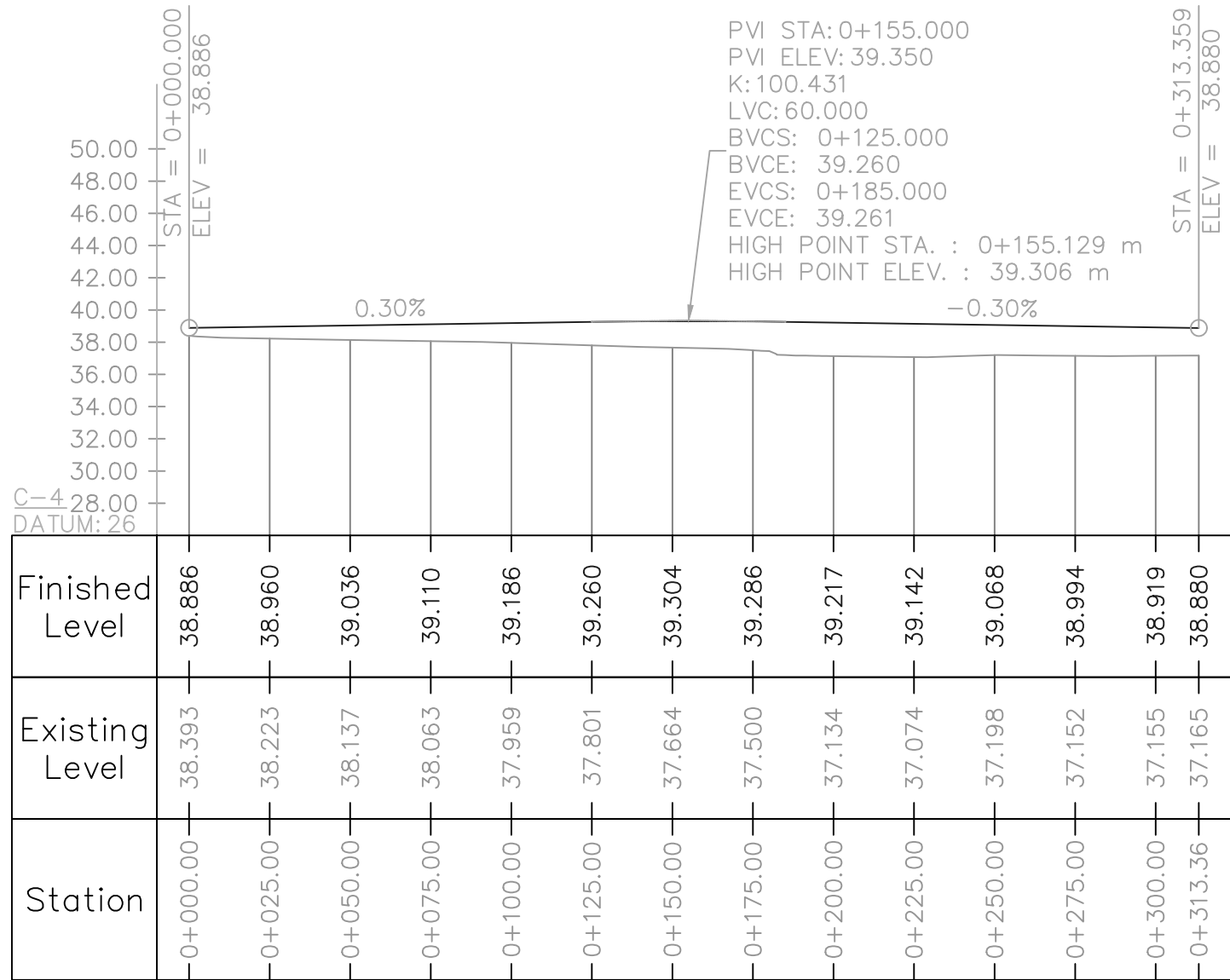
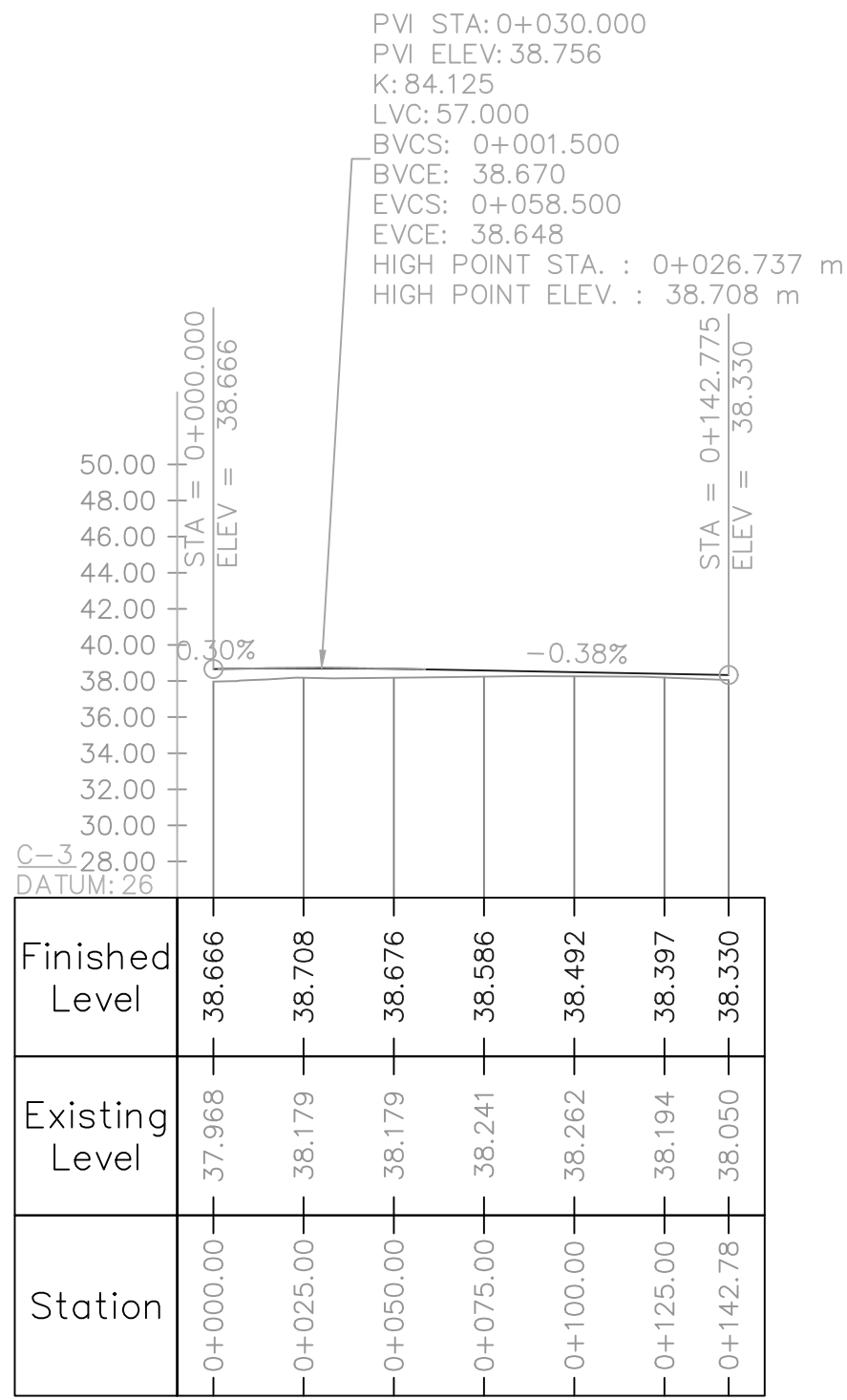
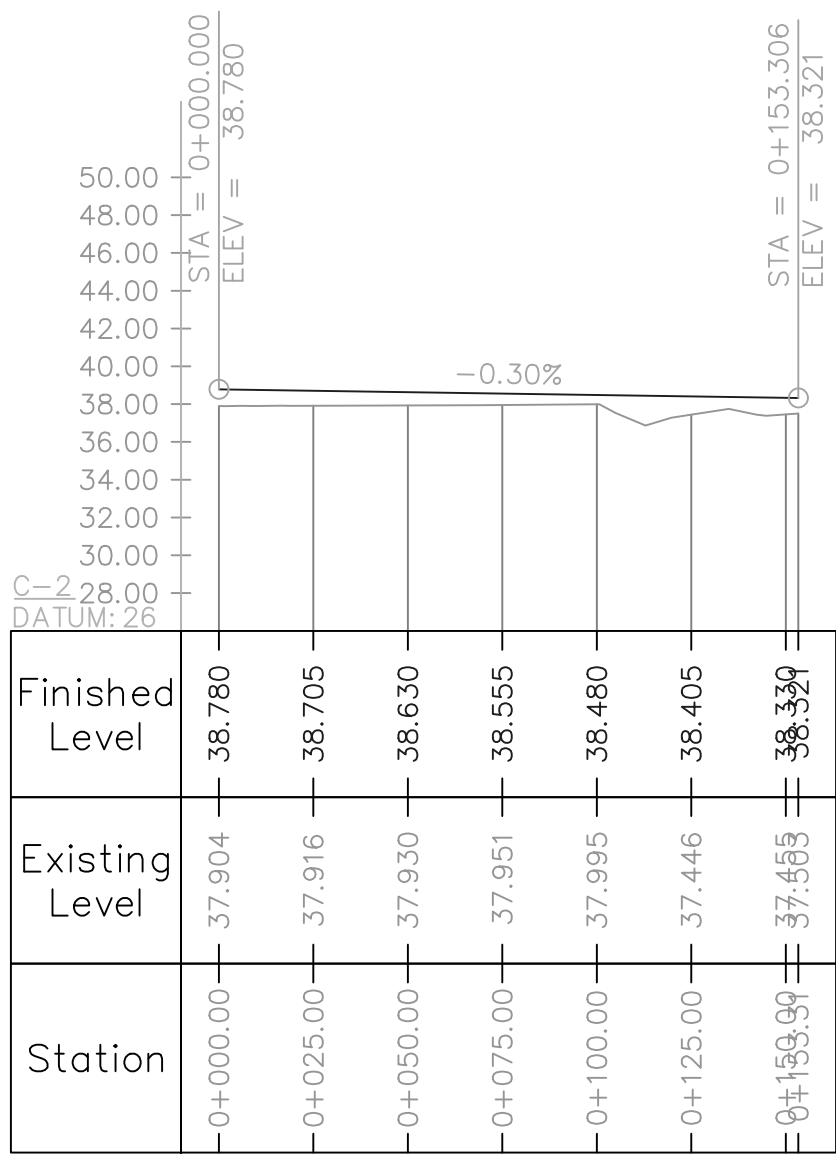
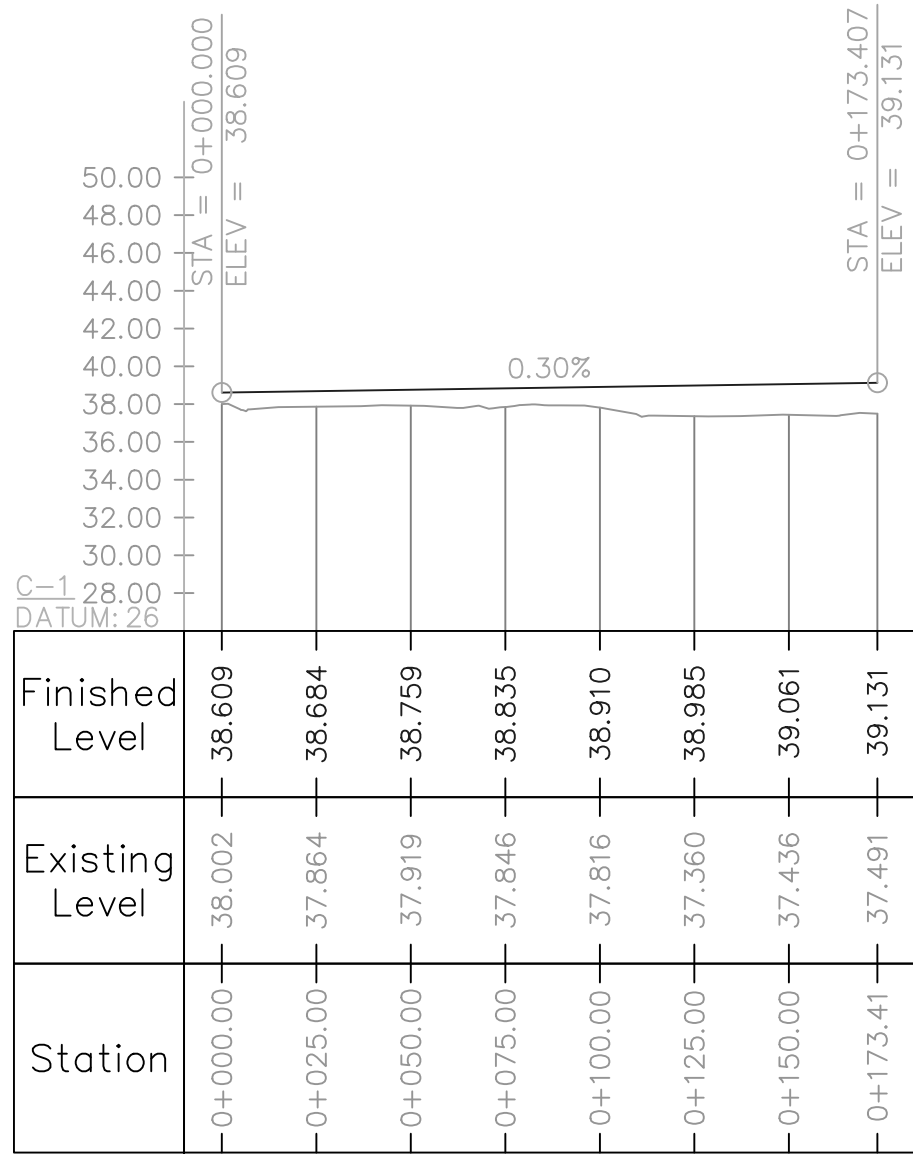
DRAWING N°:
NFIP-R-RP-4001

SHEET
01 OF 03

REV
01

CLIENT:
**PAKISTAN INDUSTRIAL DEVELOPMENT
CORPORATION (PIDC)**
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN.
PHONE: 021-3568-5041-9

CONSULTANT:
**ASIAN CONSULTING ENGINEERS PVT.(LTD)**
C-3 JHELMUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32 143 71101
FAX: +92 42 35450916 WEB: www.asiancon.com



KEY PLAN

NOTES

- ALL DIMENSIONS, CHAINAGES AND LEVELS ARE IN METERS UNLESS INDICATED OTHERWISE.
- FOR ROAD LAYOUT PLAN DETAILS REFER RELEVANT DRAWINGS.
- FOR TYPICAL CROSS SECTION DETAILS REFER RELEVANT DRAWINGS.

LEGEND:

FINISH ROAD LEVEL (FRL) —————
NATURAL GROUND LEVEL (NGL) - - - - -

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

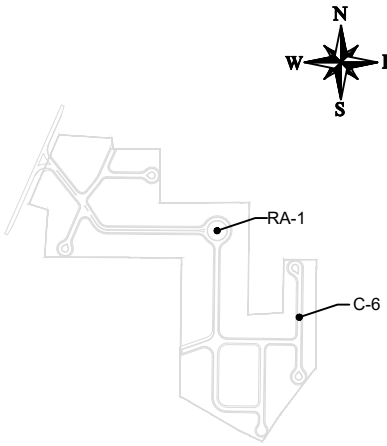
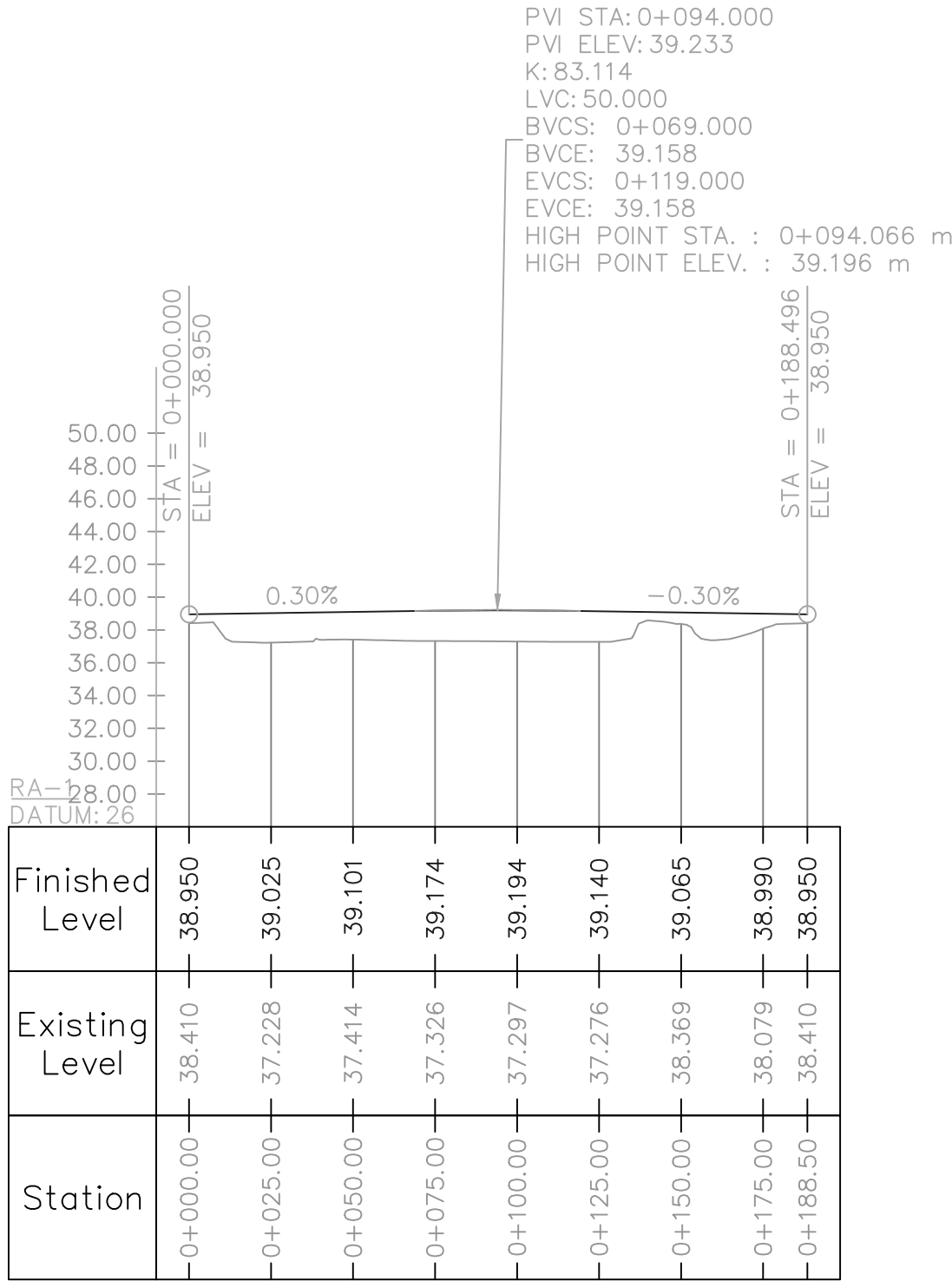
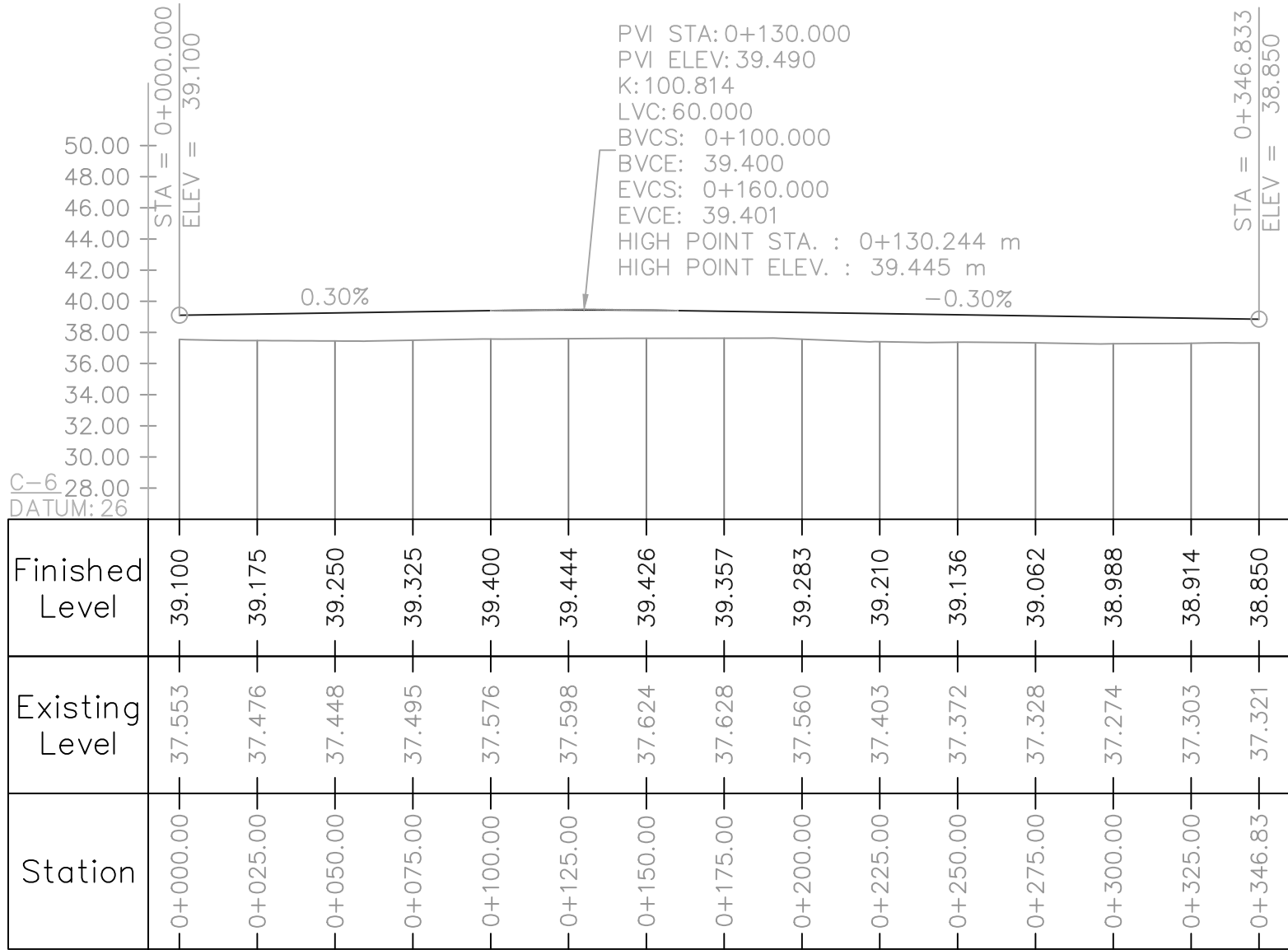
DRAWING TITLE:
**ROADS NETWORK
ROAD PROFILES
C-1, C-2, C-3, C-4 & C-5**

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	TAHR	ENGJR SHEHZOZE	ENGJR ARSLAN	
26-05-2025	TENDER DRAWINGS	SAGLAN	ENGJR SHEHZOZE	ENGJR RAMEEZ	

DRAWING N°:		SHEET	REV
NFIP-R-RP-4002		02 OF 03	01

CLIENT:
 **PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)**
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN,
PHONE: 021-3568-5041-9

CONSULTANT:
 **ASIAN CONSULTING ENGINEERS PVT.(LTD)**
C-3 JHILLUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 30-143-71101
FAX: +92 42 35450916 WEB: www.asiancon.com



KEY PLAN

NOTES

- ALL DIMENSIONS, CHAINAGES AND LEVELS ARE IN METERS UNLESS INDICATED OTHERWISE.
- FOR ROAD LAYOUT PLAN DETAILS REFER RELEVANT DRAWINGS.
- FOR TYPICAL CROSS SECTION DETAILS REFER RELEVANT DRAWINGS.

LEGEND:

FINISH ROAD LEVEL (FRL) —————
NATURAL GROUND LEVEL (NGL) - - - - -

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
**ROADS NETWORK
ROAD PROFILES
C-6 & RA-1**

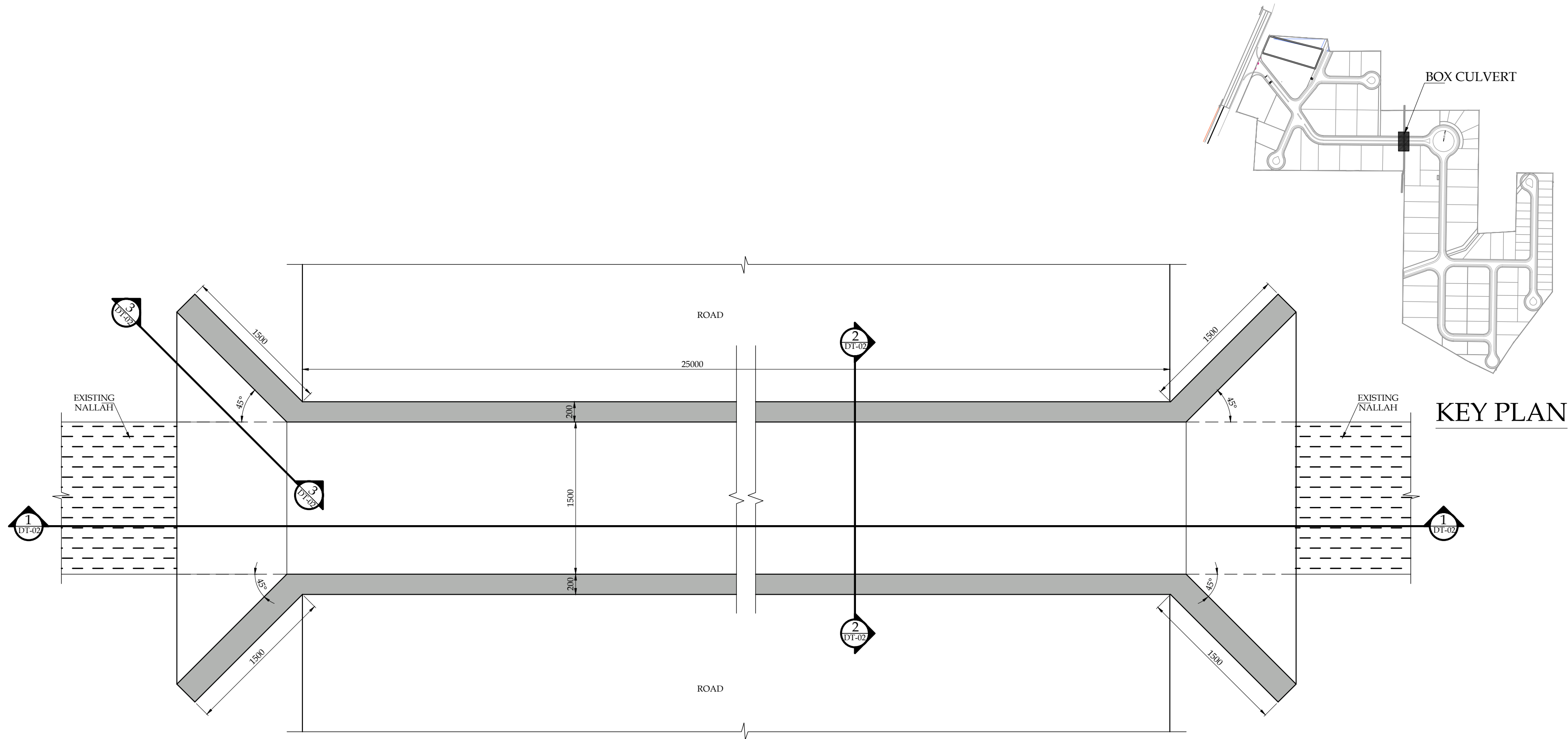
ORIGINAL:		DATE:		SCALE:	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	TAHR	ENGJR SHEHZOZE	ENGJR ASHLAN	
26-05-2025	TENDER DRAWINGS	SAGLAN	ENGJR SHEHZOZE	ENGJR RAMEEZ	

DRAWING N°:		SHEET	REV
NFIP-R-RP-4003		03 OF 03	01

CLIENT:
 **PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)**
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN.
PHONE: 021-3568-5041-9

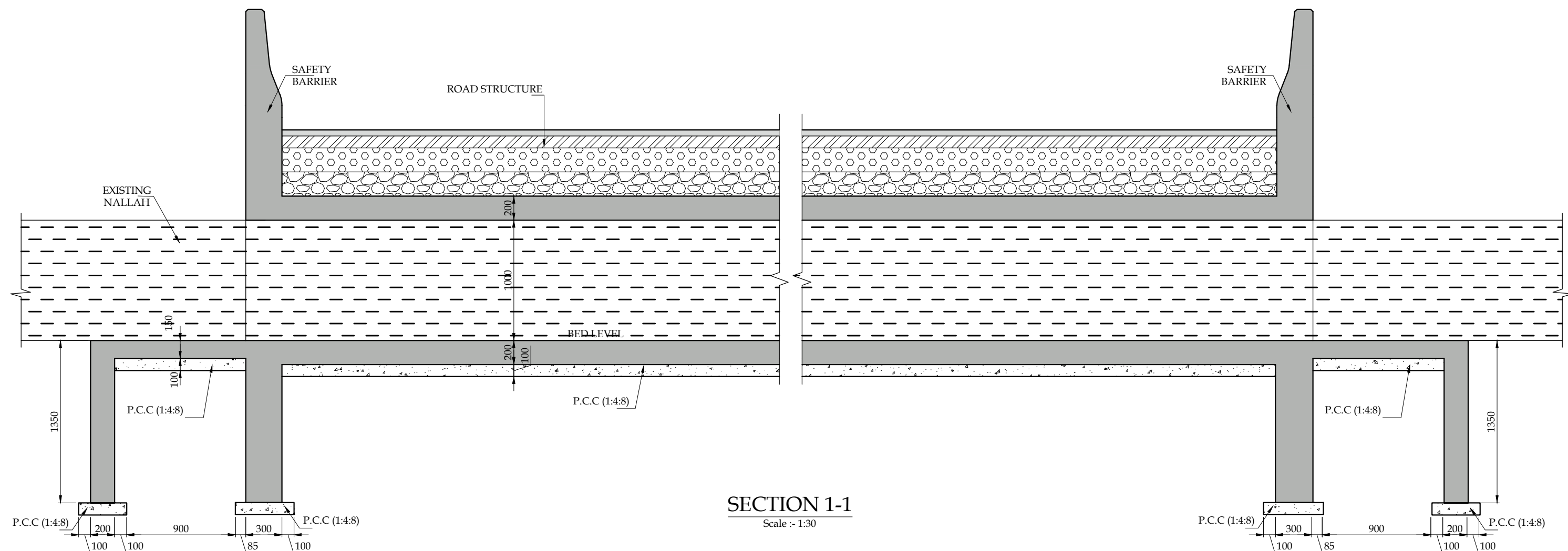
CONSULTANT:
 **ASIAN CONSULTING ENGINEERS PVT.(LTD)**
C-3 JHILLUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32 142 71101
FAX: +92 42 35450916 WEB: www.asiancon.com

STRUCTURAL DRAWINGS



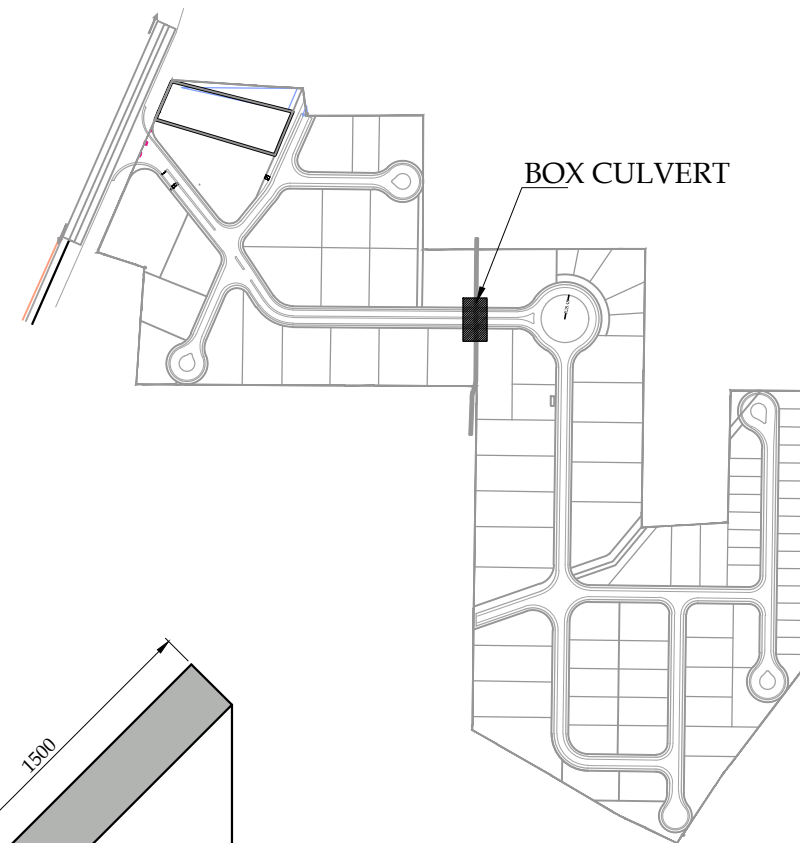
BOX CULVERT LAYOUT PLAN

Scale :- 1:30



SECTION 1-1

Scale :- 1:30



KEY PLAN

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
ROADS NETWORK
BOX CULVERT LAYOUT AND SECTION

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	FIDA	ENGR UMAR	ENGR ARSLAN	

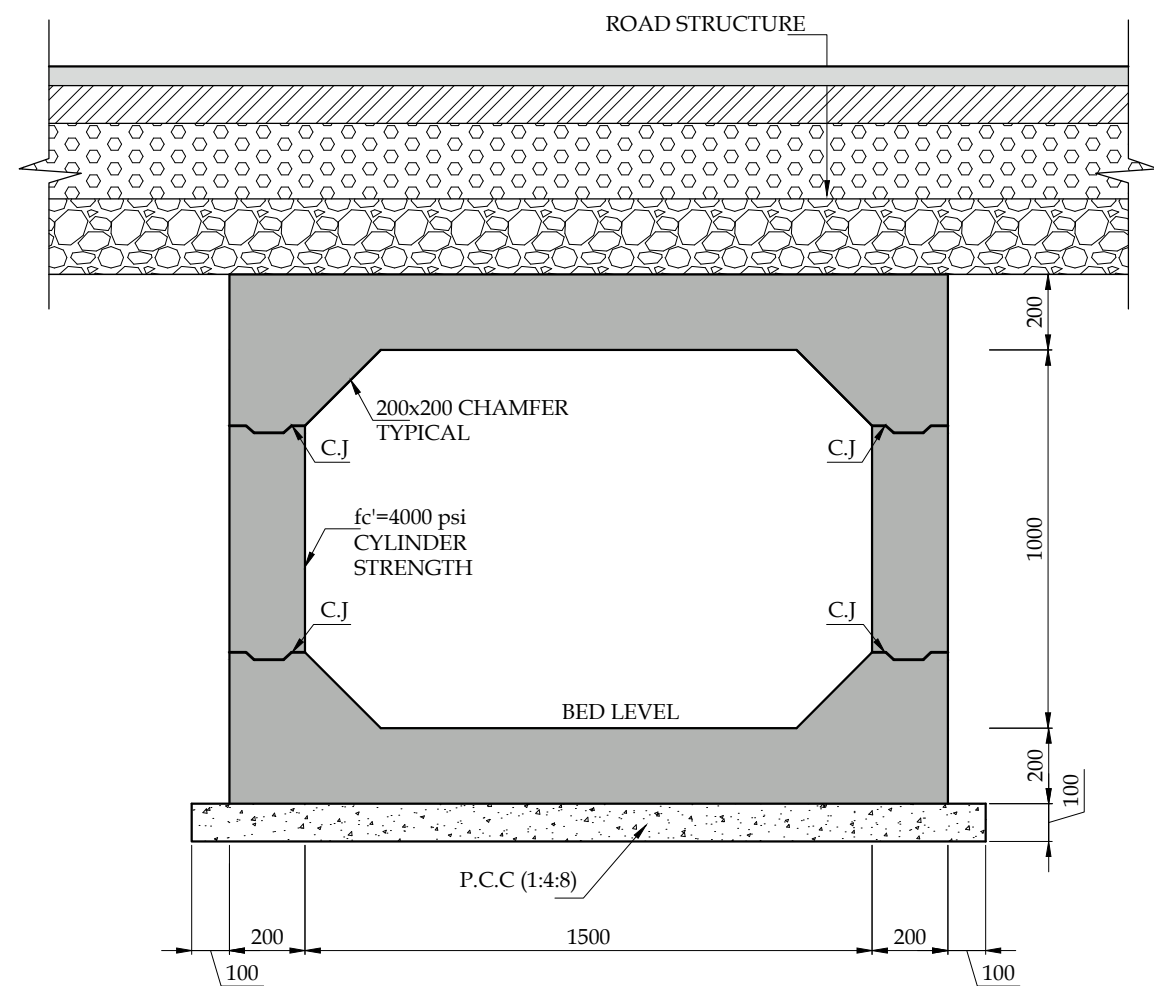
DRAWING N°:
NFIP-STR-LS-01

SHEET
1 OF 1

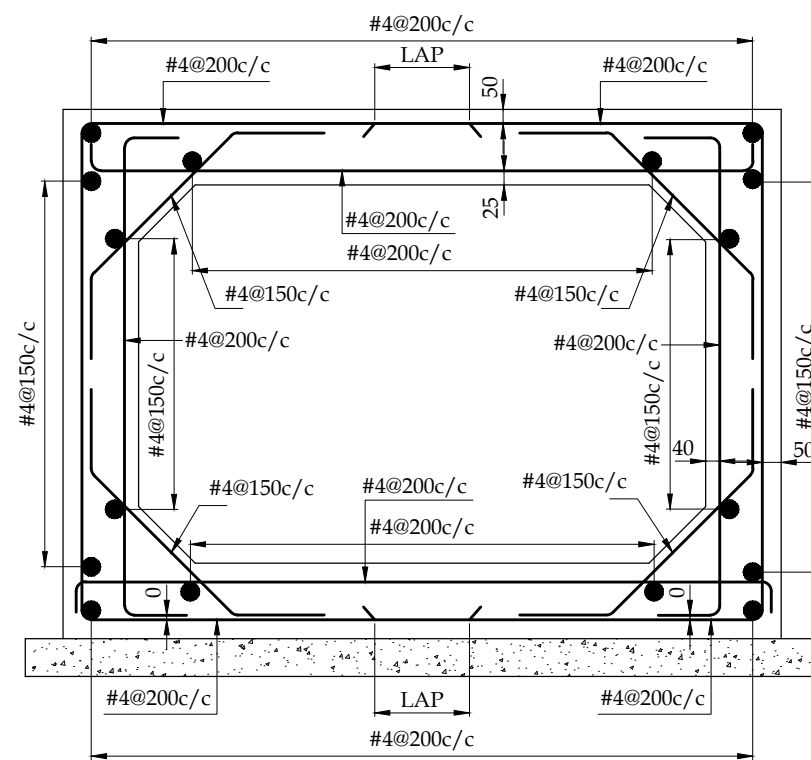
REV
00

CLIENT:
 **PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)**
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN.
PHONE: 021-3568-5041-9

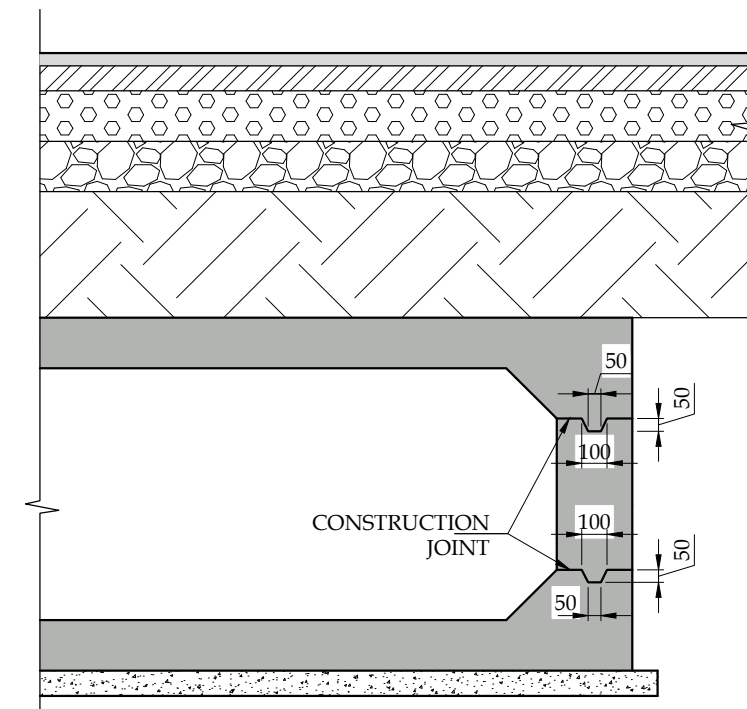
CONSULTANT:
 **ASIAN CONSULTING ENGINEERS PVT.(LTD)**
C-3 JHELLUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32-143-71101
FAX: +92 42 35450916 WEB: www.asiancon.com



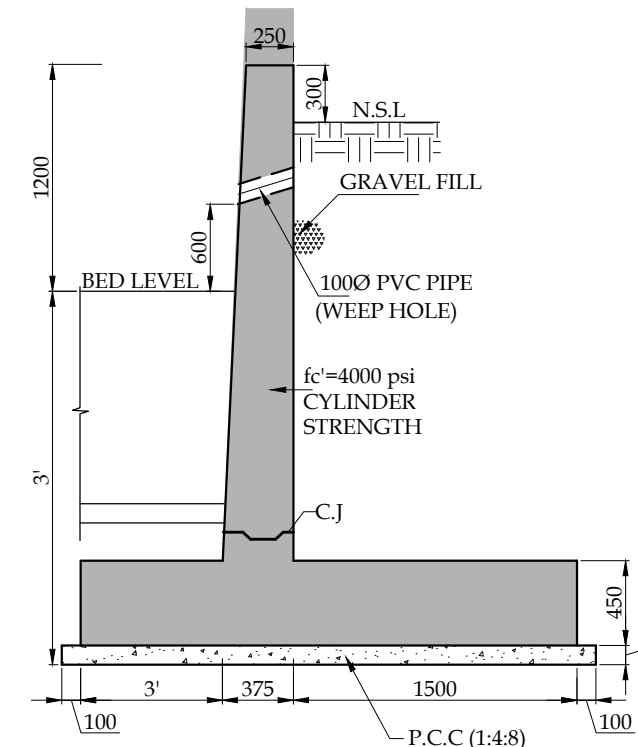
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CONCRETE OUT LINE



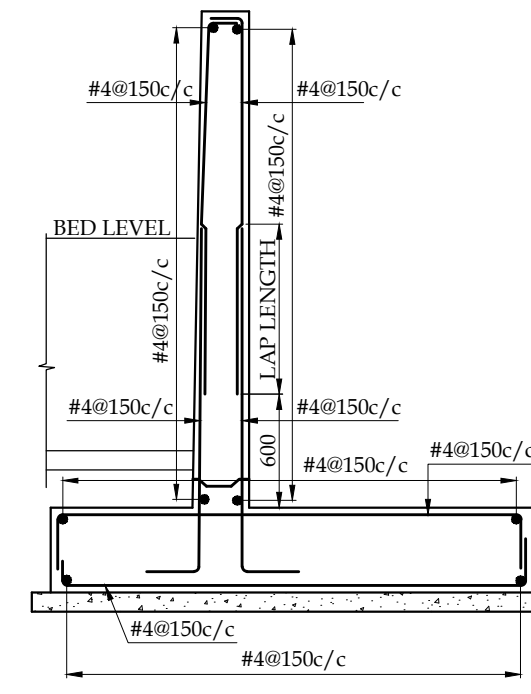
SECTION 2-2
REINFORCEMENT



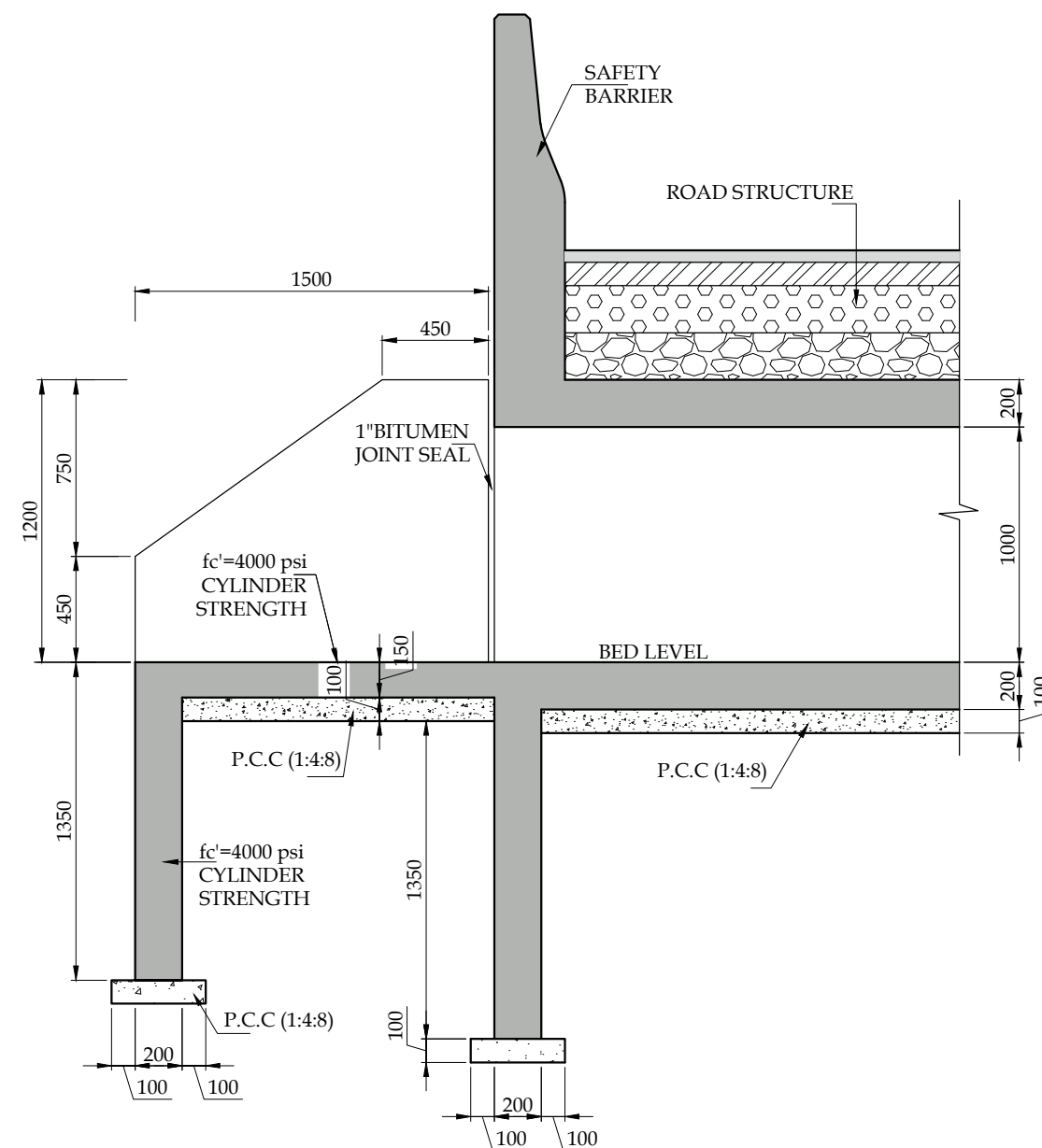
TYPICAL DETAIL OF
CONSTRUCTION JOINT
Scale :- 1:30



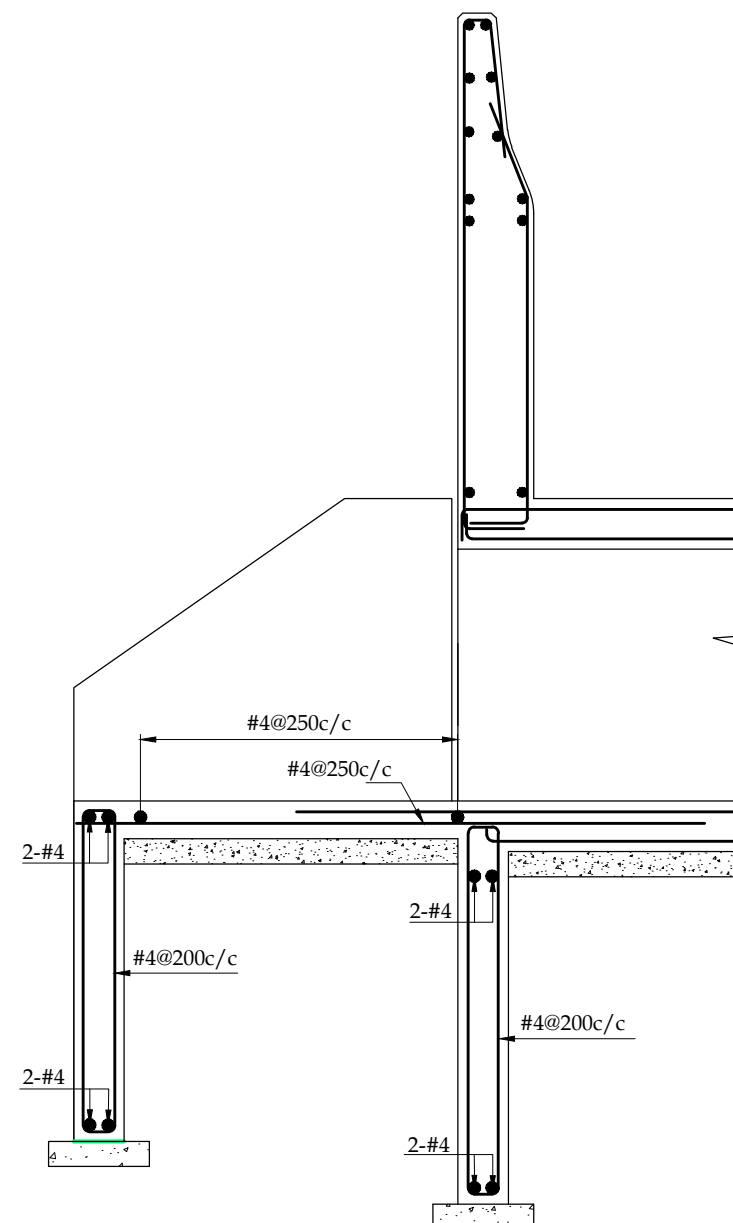
TYPICAL WING
WALL SECTION
Scale :- 1:40



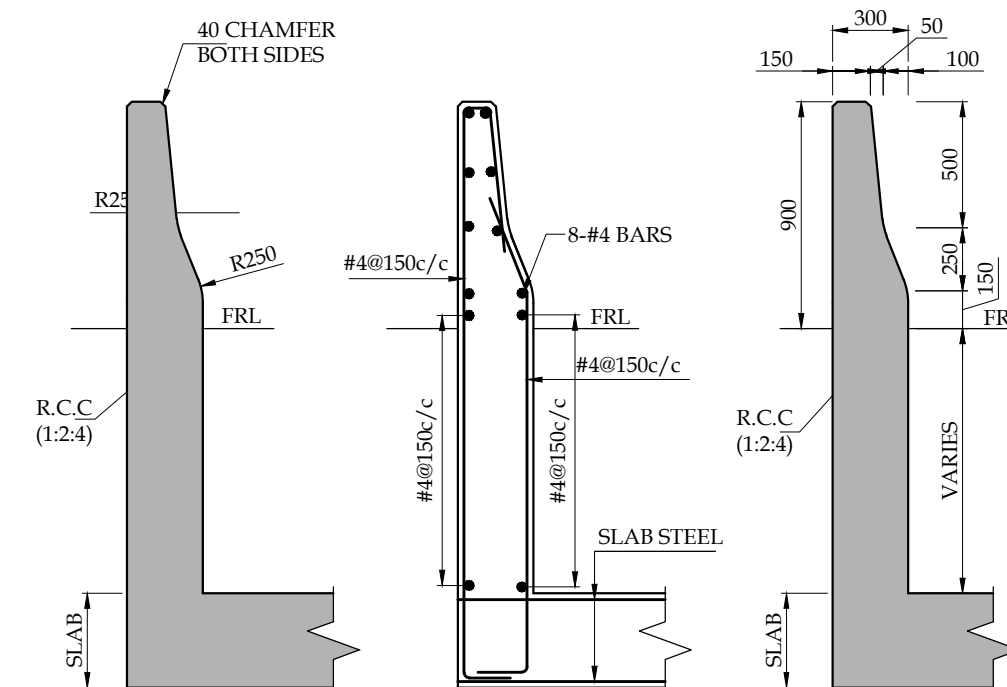
WING WALL
REINFORCEMENT
Scale :- 1:40



SECTION 3-3
CONCRETE OUT LINE
Scale :- 1:30



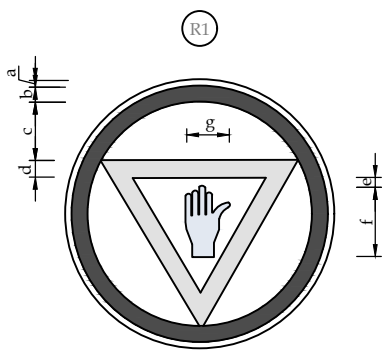
SECTION 3-3
(REINFORCEMENT)
Scale :- 1:30



SAFETY BARRIER
Scale :- 1:30

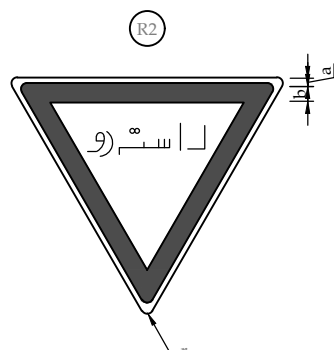
PROJECT:				
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC) INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT NAUSHAHRO FERROZE INDUSTRIAL PARK, NAUSHAHRO FERROZE ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY & SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE				
DRAWING TITLE:				
ROADS NETWORK BOX CULVERT DETAILS				
ORIGINAL :		DATE :		SCALE :
A2		JULY, 2021		
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
22-12-2021	TENDER DRAWINGS	FIDA	ENGR UMAIR	ENGR ARSLAN
DRAWING N°:				
NFIP-STR-TD-01			SHEET 1 OF 1	REV 00
CLIENT:				
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC) 2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI, PAKISTAN. PHONE: 021-3568-5041-9				
CONSULTANT:				
ASIAN CONSULTING ENGINEERS PVT.(LTD) C-3 JHELLUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN TELEPHONE: +92 42 35450914-5 +92 32-142-71101 FAX: +92 42 35450916 WEB: www.asiancon.com				

TYPICAL DETAILS



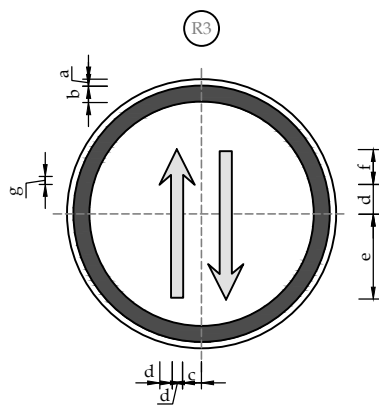
STOP SIGN
DIMENSION (com)

PARTS	60cm	75cm	90cm	105cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	10.7	13.3	16.0	18.7
d	3.7	4.6	5.5	6.4
e	2.3	2.9	3.5	4.1
f	20.0	25.0	30.0	35.0
g	12.3	15.4	18.5	21.6



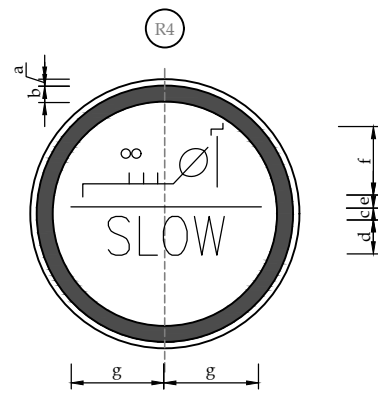
GIVE WAY SIGN
DIMENSION (com)

PARTS	60cm	75cm	90cm	105cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	10.7	13.3	16.0	18.7
d	3.7	4.6	5.5	6.4
e	2.3	2.9	3.5	4.1
f	20.0	25.0	30.0	35.0
g	12.3	15.4	18.5	21.6



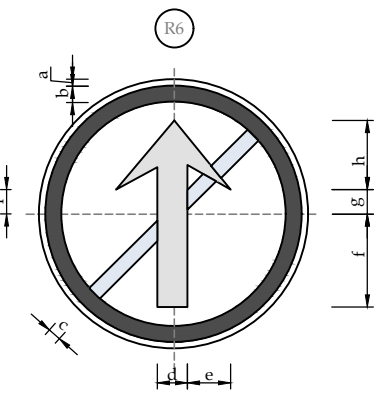
PRIORITY ROAD
DIMENSION (com)

PARTS	60cm	75cm	90cm	105cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	10.7	13.3	16.0	18.7
d	3.7	4.6	5.5	6.4
e	2.3	2.9	3.5	4.1
f	20.0	25.0	30.0	35.0
g	12.3	15.4	18.5	21.6



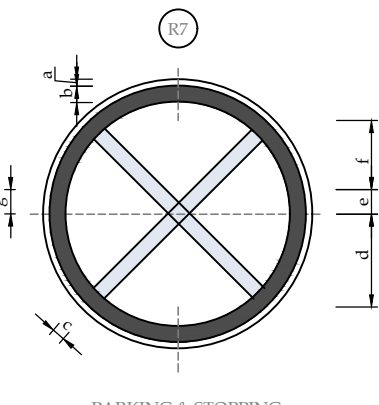
SLOW SIGN
DIMENSION (com)

PARTS	60cm	75cm	90cm	105cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	10.7	13.3	16.0	18.7
d	3.7	4.6	5.5	6.4
e	2.3	2.9	3.5	4.1
f	20.0	25.0	30.0	35.0
g	12.3	15.4	18.5	21.6



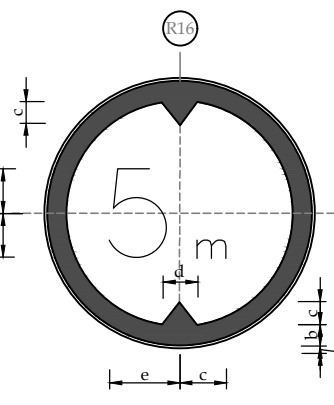
NO ENTRY SIGN
DIMENSION (com)

PARTS	60cm	75cm	90cm	105cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	10.7	13.3	16.0	18.7
d	3.7	4.6	5.5	6.4
e	2.3	2.9	3.5	4.1
f	20.0	25.0	30.0	35.0
g	12.3	15.4	18.5	21.6



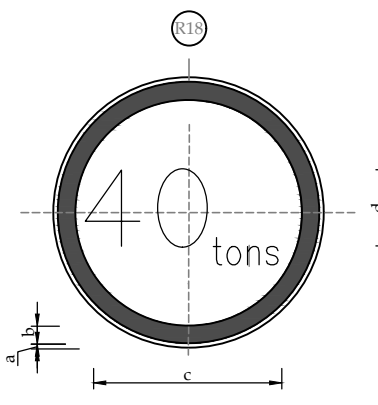
PARKING & STOPPING
PROHIBITED
DIMENSION (com)

PARTS	60cm	75cm	90cm	105cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	10.7	13.3	16.0	18.7
d	3.7	4.6	5.5	6.4
e	2.3	2.9	3.5	4.1
f	20.0	25.0	30.0	35.0
g	12.3	15.4	18.5	21.6



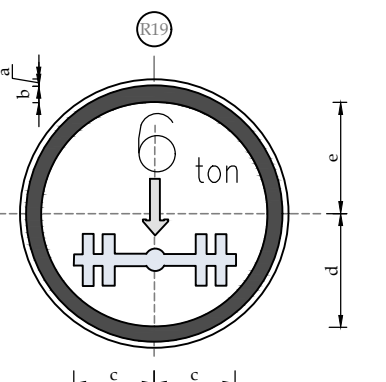
HEIGHT LIMIT SIGN
DIMENSION (cm)

PARTS	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	11.0	13.7	16.5	19.2
d	17.3	21.7	26.0	30.3
e	13.3	16.7	20.0	23.3



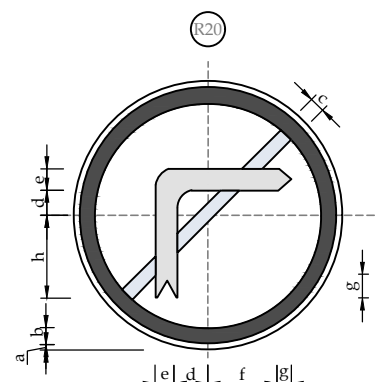
GROSS WEIGHT LIMIT SIGN
DIMENSION (cm)

PARTS	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	32.7	40.8	49.0	57.2
d	26.7	33.3	40.0	46.7



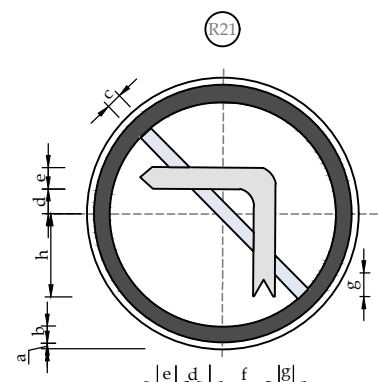
ALEX WEIGHT LIMIT SIGN
DIMENSION (cm)

PARTS	60cm	75cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	18.7	23.3	28.0	32.7
d	15.3	19.2	23.0	26.8
e	21.3	26.7	32.0	37.3



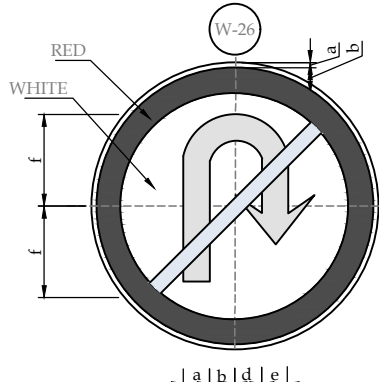
NO RIGHT TURN
DIMENSION (com)

PARTS	60cm	75cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	3.7	4.6	5.5	6.4
d	4.0	5.0	6.0	7.0
e	6.7	8.3	10.0	11.6
f	16.7	20.8	25.0	29.2
g	3.3	4.2	5.0	5.8
h	20.0	25.0	30.0	35.0



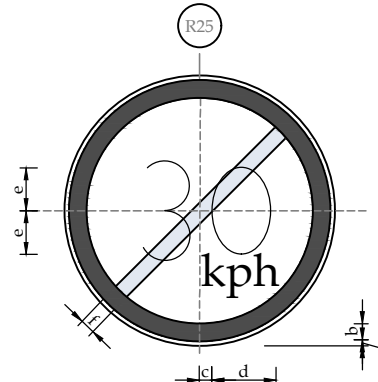
NO LEFT TURN
DIMENSION (com)

PARTS	60cm	75cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	3.7	4.6	5.5	6.4
d	4.0	5.0	6.0	7.0
e	6.7	8.3	10.0	11.6
f	16.7	20.8	25.0	29.2
g	3.3	4.2	5.0	5.8
h	20.0	25.0	30.0	35.0



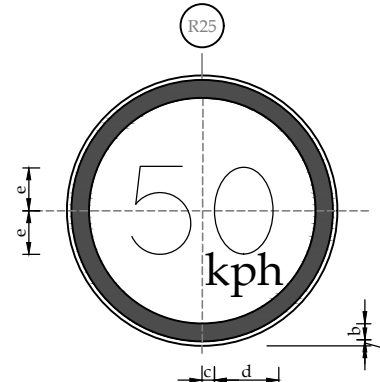
NO U- TURN
DIMENSION (com)

PARTS	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	3.7	4.6	5.5	6.4
d	5.3	6.7	8.0	9.3
e	6.0	7.5	9.0	10.5
f	18.7	23.3	28.0	32.7
g	7.0	8.7	10.5	12.2
h	15.7	19.6	23.5	27.4
i	3.0	3.7	4.5	5.2



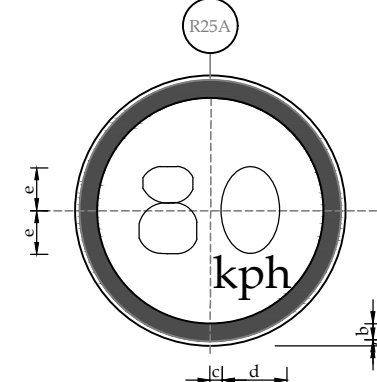
SPEED LIMIT
DIMENSION (cm)

PARTS	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	2.0	2.5	3.0	3.6
d	15.3	19.2	23.0	26.8
e	13.3	16.7	20.0	23.3
f	3.7	4.6	5.5	6.4



SPEED LIMIT
DIMENSION (cm)

PARTS	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	2.0	2.5	3.0	3.6
d	15.3	19.2	23.0	26.8
e	13.3	16.7	20.0	23.3



SPEED LIMIT
DIMENSION (cm)

PARTS	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	2.0	2.5	3.0	3.6
d	15.3	19.2	23.0	26.8
e	13.3	16.7	20.0	23.3

NOTES

- ALL DIMENSIONS ARE IN CENTIMETERS/MILLIMETERS UNLESS INDICATED OTHERWISE.
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- TRAFFIC SIGNS WITH DESIGNATION R51 TO R52 AND W43 TO W47 ARE NOT IN NTRC MANUAL.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL OF THE ENGINEER.
- ALL TRAFFIC SIGNS SHALL BE MANUFACTURED AS PER SPECIFICATIONS. REFER TRAFFIC SIGNS AND MOUNTING DETAILS FOR FURTHER INFORMATION ABOUT TRAFFIC SIGNS MATERIAL.
- THE MATERIAL OF SIGN PANELS AND REFLECTIVE SHEETING SHALL BE APPROVED BY THE ENGINEER PRIOR TO MANUFACTURING OF TRAFFIC SIGNS.

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAU SHAHRO FEROZE INDUSTRIAL PARK, NAU SHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

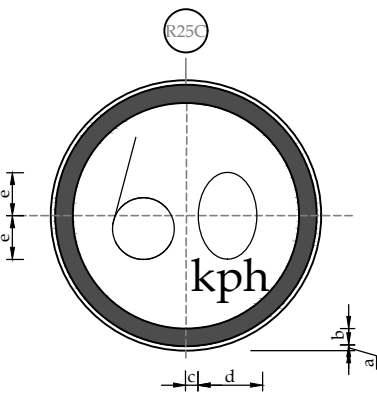
DRAWING TITLE: ROADS NETWORK ROAD TRAFFIC SIGNS DETAILS

DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
22-12-2021	TENDER DRAWINGS	TAHR	ENGR SHEHROZ	ENGR ARSLAN

DRAWING N°:	SHEET	REV
NFIP-R-STD-5001	1 OF 5	00

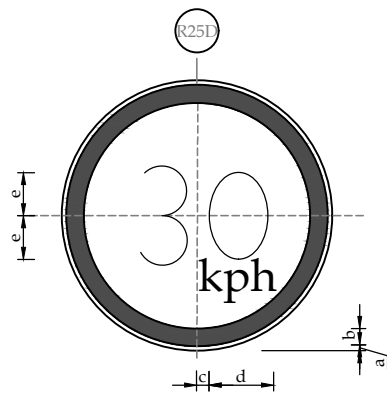
CLIENT:
PAKISTAN INDUSTRIAL DEVELOPMENT
CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN
PHONE: 021-3568-5041-9

CONSULTANT:
ASIAN CONSULTING ENGINEERS PVT.(LTD)
C-3 JHELMUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32-142-71101
FAX: +92 42 35450916 WEB: www.asiancon.com



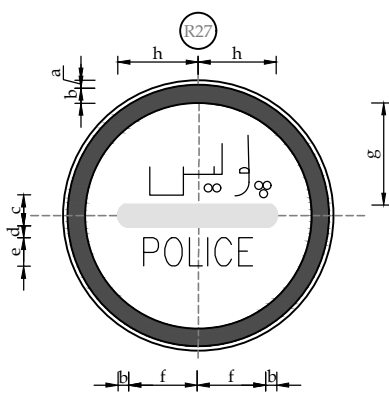
SPEED LIMIT
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	2.0	2.5	3.0	3.6
d	15.3	19.2	23.0	26.8
e	13.3	16.7	20.0	23.3



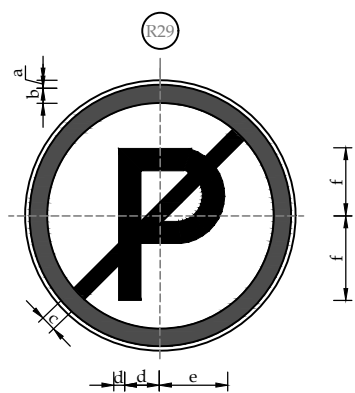
SPEED LIMIT
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	2.0	2.5	3.0	3.6
d	15.3	19.2	23.0	26.8
e	13.3	16.7	20.0	23.3



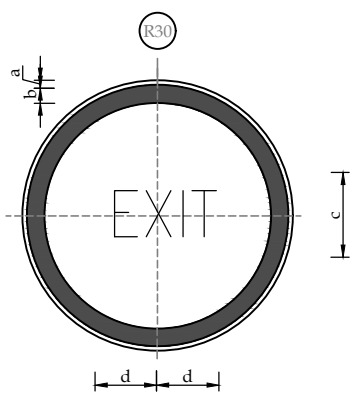
POLICE CHECK
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	5.0	6.3	7.5	8.8
d	2.0	2.5	3.0	3.5
e	6.7	8.3	10.0	11.7
f	18.3	22.9	27.5	32.1
g	19.3	24.2	29.0	33.0
h	18.7	23.3	28.0	32.7



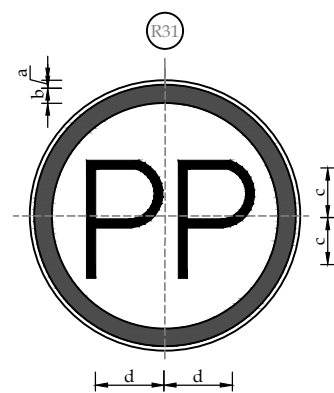
PARKING PROHIBITION
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	3.7	4.6	5.5	6.4
d	5.3	6.7	8.0	9.3
e	10.6	13.3	16.0	18.7
f	18.0	22.5	27.0	31.5



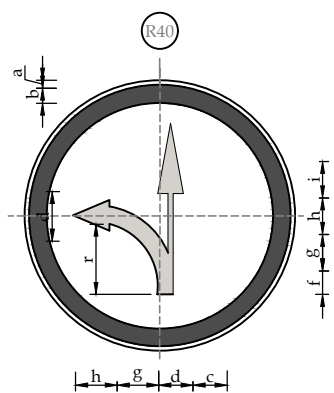
EXIT
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	18.0	22.5	27.0	31.5
d	18.3	22.9	27.5	32.1



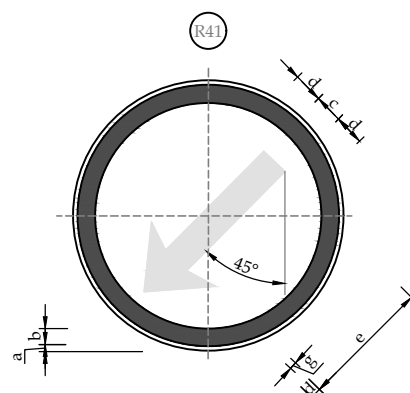
PARALLEL PARKING
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	18.0	22.5	27.0	31.5
d	18.3	22.9	27.5	32.1



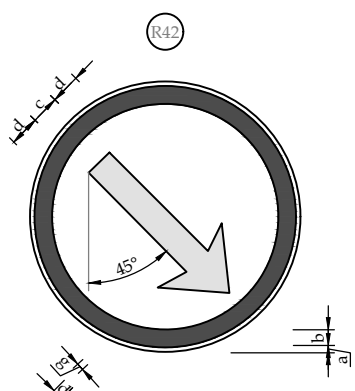
PROCEED STRAIGHT
OR LEFT ONLY
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	2.7	3.3	4.0	4.7
c	3.3	4.2	5.0	5.8
d	5.3	6.7	8.0	9.3
e	6.0	7.5	9.0	10.5
f	22.7	28.3	34.0	39.7
g	7.0	8.7	10.5	12.2
h	15.7	19.6	23.5	27.4
i	3.0	3.7	4.5	5.2
r	5.3	6.7	8.0	9.3



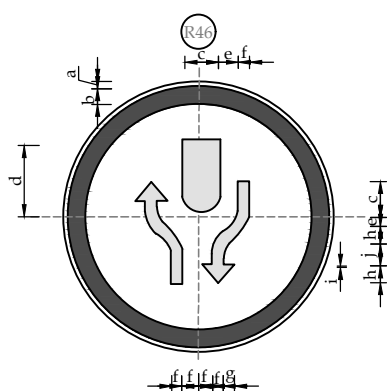
KEEP LEFT
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	2.7	3.3	4.0	4.7
c	5.3	6.7	8.0	9.3
d	6.0	7.5	9.0	10.5
e	21.3	26.7	32.0	37.3
f	15.3	19.2	23.0	26.8
g	3.0	3.7	4.5	5.2



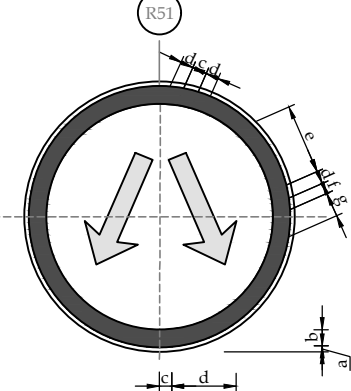
KEEP RIGHT
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	2.7	3.3	4.0	4.7
c	5.3	6.7	8.0	9.3
d	6.0	7.5	9.0	10.5
e	21.3	26.7	32.0	37.3
f	15.3	19.2	23.0	26.8
g	3.0	3.7	4.5	5.2



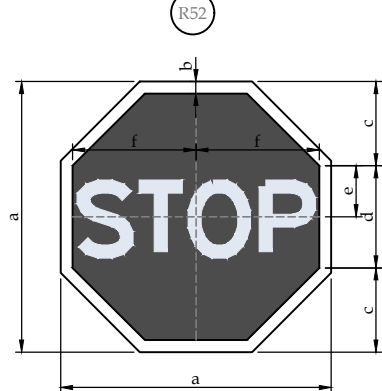
DIVIDED HIGHWAY BEGINS
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	2.7	3.3	4.0	4.7
c	9.3	11.7	14.0	16.3
d	20.7	25.8	31.0	36.2
e	5.3	6.7	8.0	9.3
f	4.7	5.8	7.0	8.2
g	4.0	5.0	6.0	7.0
h	8.7	10.8	13.0	15.2
i	1.0	1.2	1.5	1.7
j	3.5	4.2	5.0	5.8



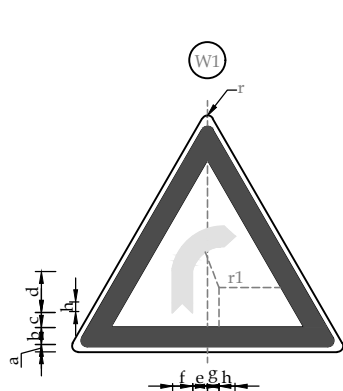
PASS EITHER SIDE
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	2.7	3.3	4.0	4.7
c	5.3	6.7	8.0	9.3
d	6.0	7.5	9.0	10.5
e	21.3	26.7	32.0	37.3
f	15.3	19.2	23.0	26.8
g	3.0	3.7	4.5	5.2



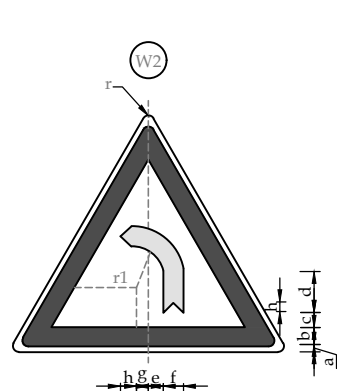
STOP
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	60.0	75.0	90.0	120.0
b	1.5	2.0	2.5	3.0
c	20.0	25.0	30.0	40.0
d	20.0	25.0	30.0	40.0
e	10.0	12.5	15.0	20.0
f	25	30	38	63.5



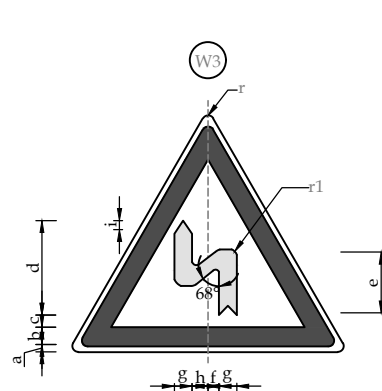
CURVE TOWARDS RIGHT
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	2.7	3.3	4.0	4.7
d	7.6	9.6	11.5	13.4
e	5.7	7.1	8.5	9.9
f	4.7	5.8	7.0	8.2
g	4.0	5.0	6.0	7.0
h	2.3	2.9	3.5	4.1
r	2.3	2.9	3.5	4.1
r1	8.3	10.4	12.5	14.6



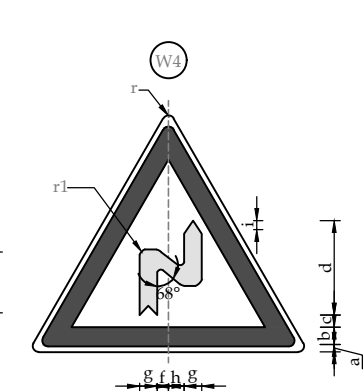
CURVE TOWARDS LEFT
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	2.7	3.3	4.0	4.7
d	7.6	9.6	11.5	13.4
e	5.7	7.1	8.5	9.9
f	4.7	5.8	7.0	8.2
g	2.3	2.9	3.5	4.1
h	2.3	2.9	3.5	4.1
r	2.3	2.9	3.5	4.1
r1	8.3	10.4	12.5	14.6



LEFT REVERSE CURVE
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	2.0	2.5	3.0	3.5
d	22.0	27.5	33.0	38.5
e	9.3	11.7	14.0	16.3
f	5.3	6.7	8.0	9.3
g	4.5	5.8	7.0	8.2
h	1.3	1.7	2.0	2.3
i	2.3	2.9	3.5	4.1
r	2.3	2.9	3.5	4.1
r1	3.0	3.7	4.5	5.2



RIGHT REVERSE CURVE
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	2.0	2.5	3.0	3.5
d	22.0	27.5	33.0	38.5
e	9.3	11.7	14.0	16.3
f	5.3	6.7	8.0	9.3
g	4.7	5.8	7.0	8.2
h	1.3	1.7	2.0	2.3
i	2.3	2.9	3.5	4.1
r	2.3	2.9	3.5	4.1
r1	3.0	3.7	4.5	5.2

NOTES

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- ALL TRAFFIC SIGNS SHALL BE MANUFACTURED AS PER SPECIFICATIONS. REFER TRAFFIC SIGNS AND MOUNTING DETAILS FOR FURTHER INFORMATION ABOUT TRAFFIC SIGNS MATERIAL.
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PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

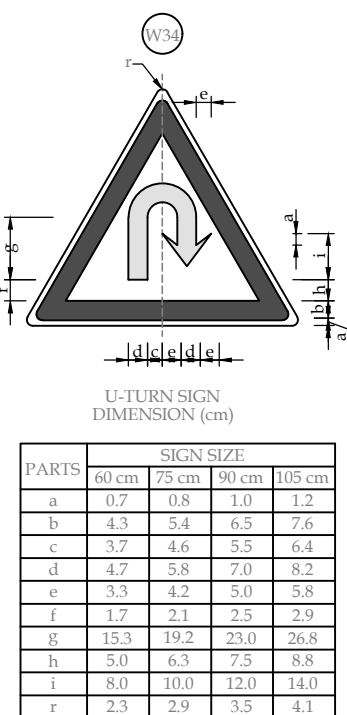
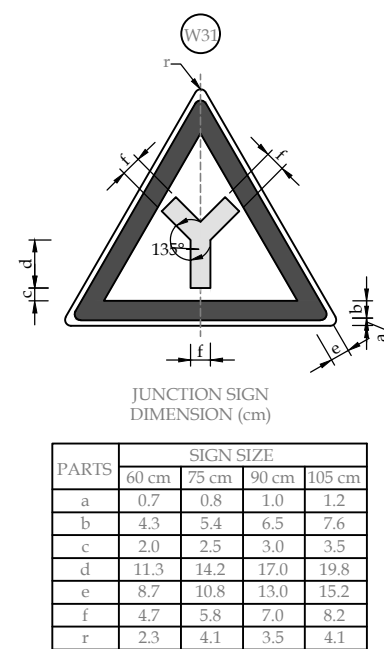
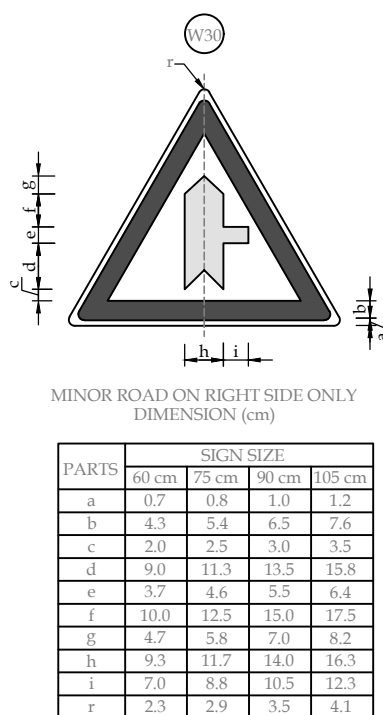
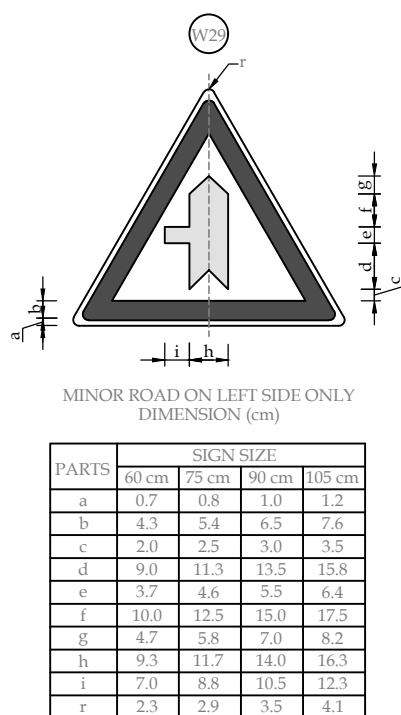
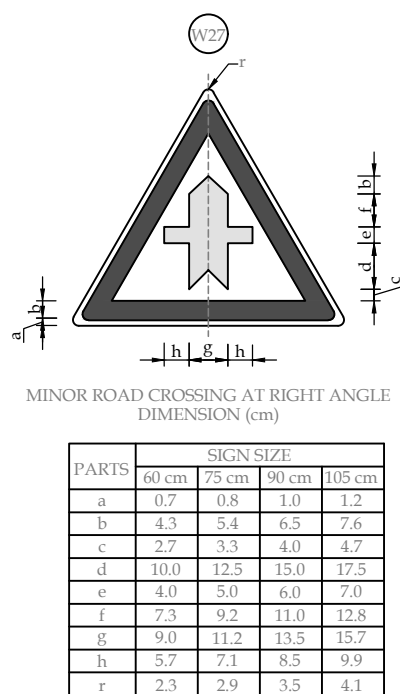
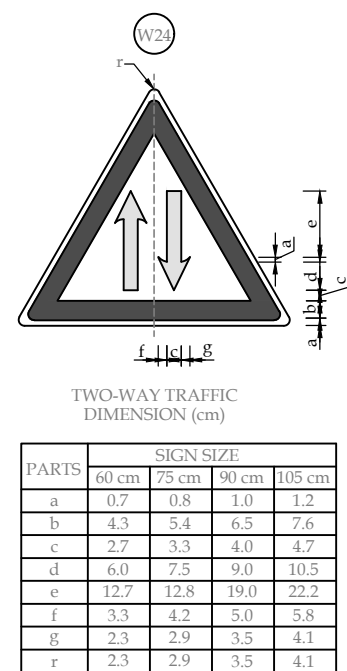
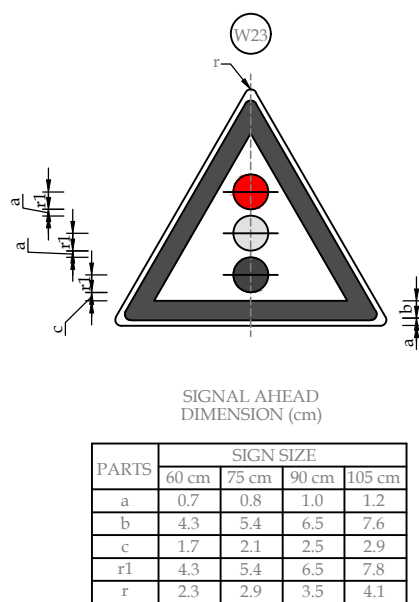
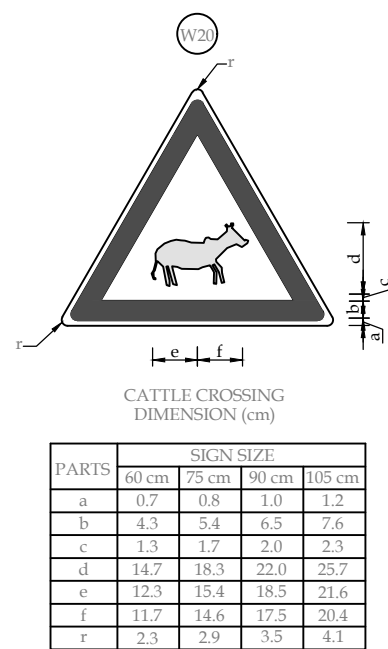
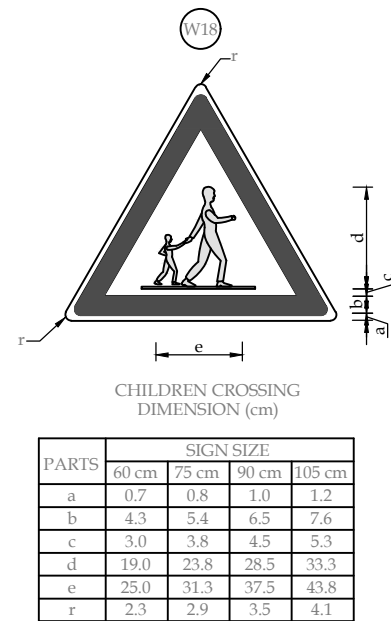
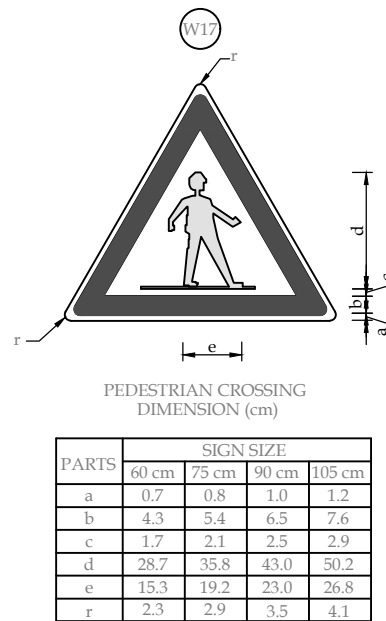
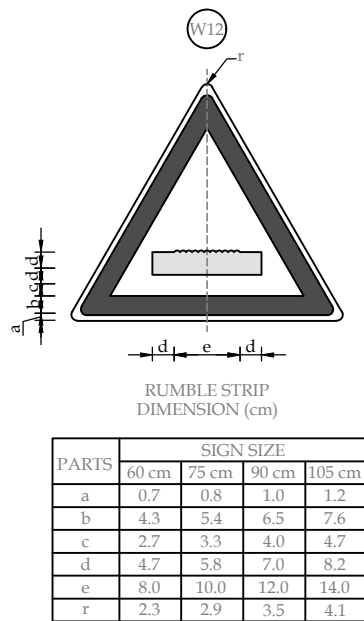
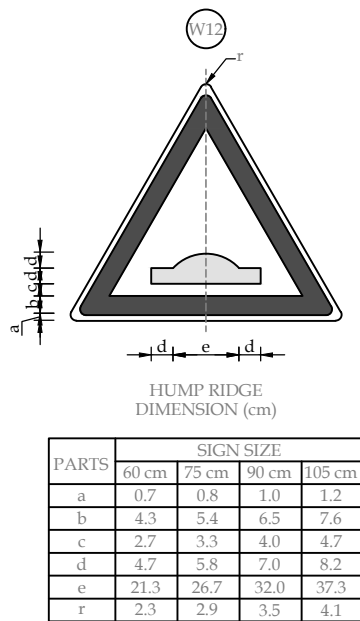
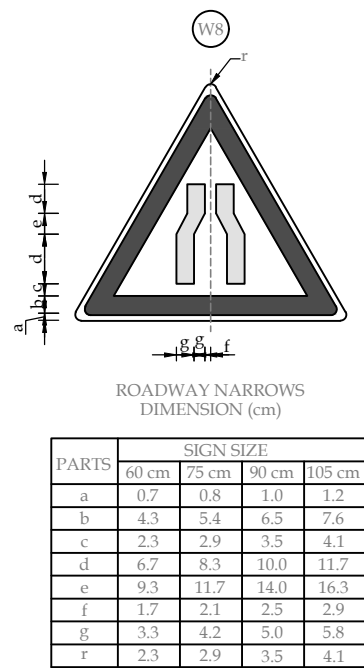
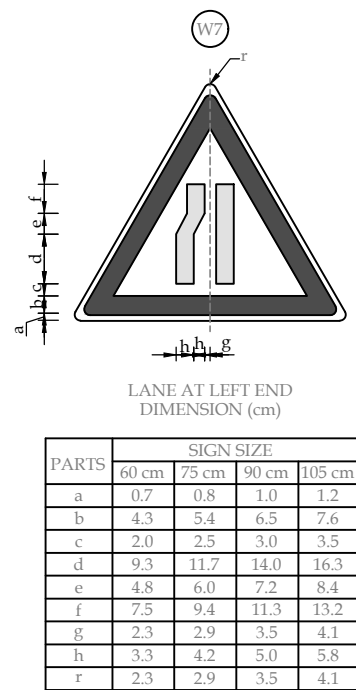
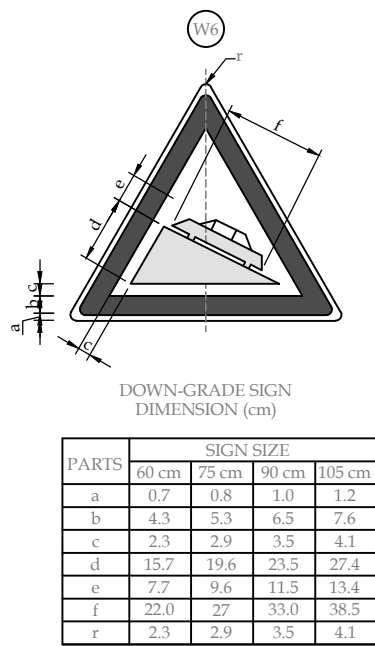
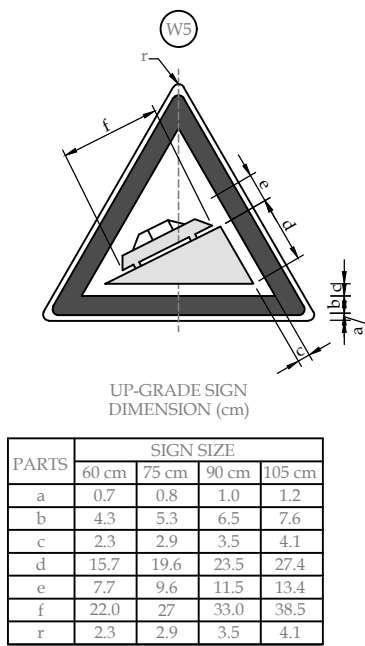
DRAWING TITLE: ROADS NETWORK ROAD TRAFFIC SIGNS DETAILS

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	TAHR	ENGR SHEHROZ	ENGR ARSLAN	

DRAWING N°:	SHEET	REV
NFIP-R-STD-5002	2 OF 5	00

CLIENT:
 PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI, PAKISTAN
PHONE: 021-3568-5041-9

CONSULTANT:
 ASIAN CONSULTING ENGINEERS PVT.(LTD)
C-3 JHELMUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32-142-71101
Fax: +92 42 35450916 WEB: www.asiancon.com



NOTES

- ALL DIMENSIONS ARE IN CENTIMETERS/MILLIMETERS UNLESS INDICATED OTHERWISE.
- THE TRAFFIC SIGNS DETAILS SHOWN IN THE DRAWINGS ARE BASED ON "NTRC'S MANUAL OF SIGNS, SIGNALS AND ROAD MARKINGS, JULY 1989. FOR COLOR SCHEME SAME MANUAL SHOULD BE USED.
- TRAFFIC SIGNS WITH DESIGNATION R51 TO R52 AND W43 TO W47 ARE NOT IN NTRC MANUAL.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL OF THE ENGINEER.
- ALL TRAFFIC SIGNS SHALL BE MANUFACTURED AS PER SPECIFICATIONS. REFER TRAFFIC SIGNS AND MOUNTING DETAILS FOR FURTHER INFORMATION ABOUT TRAFFIC SIGNS MATERIAL.
- THE MATERIAL OF SIGN PANELS AND REFLECTIVE SHEETING SHALL BE APPROVED BY THE ENGINEER PRIOR TO MANUFACTURING OF TRAFFIC SIGNS.

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INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE: ROADS NETWORK ROAD TRAFFIC SIGNS DETAILS

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION		DRAWN	DESIGNED	APPROVED
22-12-2021	TENDER DRAWINGS		TAHIR	ENGR. SHEHROZE	ENGR. ARSLAN

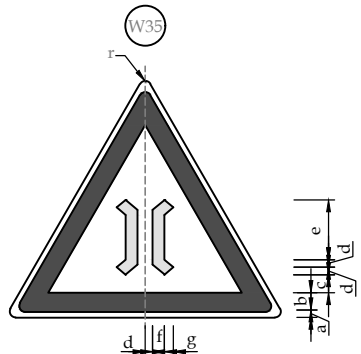
DRAWING N°:
NFIP-R-STD-5003

SHEET
3 OF 5

REV
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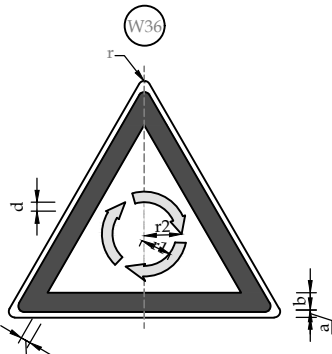
CLIENT:
PAKISTAN INDUSTRIAL DEVELOPMENT
CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN
PHONE: 021-3568-5041-9

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TELEPHONE: +92 42 3540914-5 +92 32-142-71101
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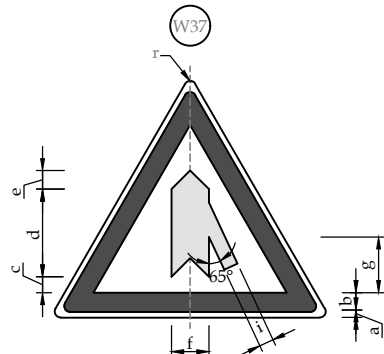
NARROW BRIDGE
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	4.0	5.0	6.0	7.0
d	1.2	2.1	2.5	2.9
e	10.0	12.5	15.0	17.5
f	2.7	3.3	4.0	4.7
g	2.0	2.5	3.0	3.5
r	2.3	2.9	3.5	4.1



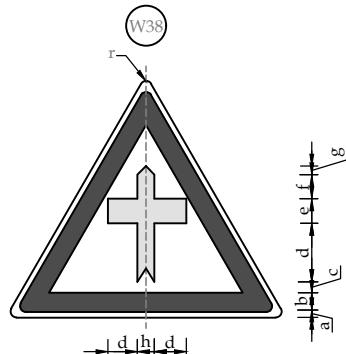
ROUND ABOUT
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	2.0	2.5	3.0	3.5
d	6.0	7.5	9.0	10.5
e	8.0	10.0	12.0	14.0
f	10.7	13.3	16.0	18.7
g	2.3	2.9	3.5	4.1



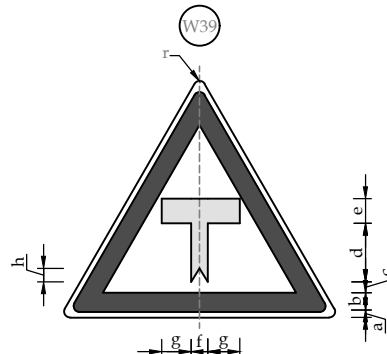
MERGE
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	2.3	2.9	3.5	4.1
d	22.0	27.5	33.0	38.5
e	4.7	5.8	7.0	8.2
f	9.3	11.7	14.0	16.3
g	10.0	12.5	15.0	17.5
h	2.0	2.5	3.0	3.5
i	3.7	4.6	5.5	6.4
r	2.3	2.9	3.5	4.1



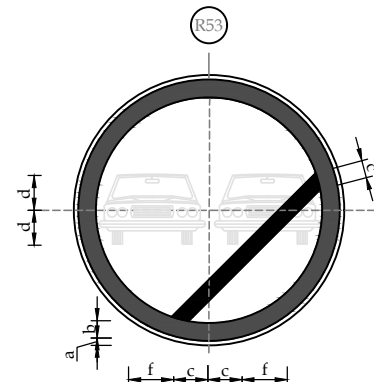
MAJOR ROAD AHEAD
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	2.0	2.5	3.5	3.5
d	8.7	10.8	13.0	15.2
e	4.7	5.8	7.0	8.2
f	6.7	8.3	10.0	11.7
g	1.7	2.1	2.5	2.9
h	3.3	4.2	5.0	5.8
r	2.3	2.9	3.5	4.1



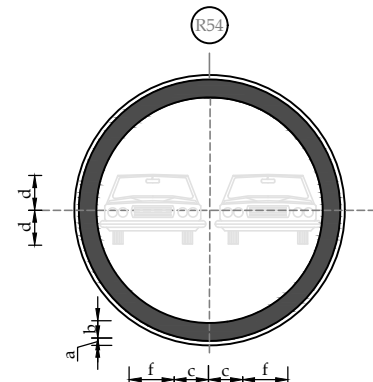
MAJOR ROAD HEAD
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	2.0	2.5	3.0	3.5
d	10.3	12.9	15.5	18.1
e	4.7	5.8	7.0	8.2
f	3.3	4.2	5.0	5.8
g	7.3	9.2	11.0	12.8
h	1.7	2.1	2.5	2.9
r	2.3	2.9	3.5	4.1



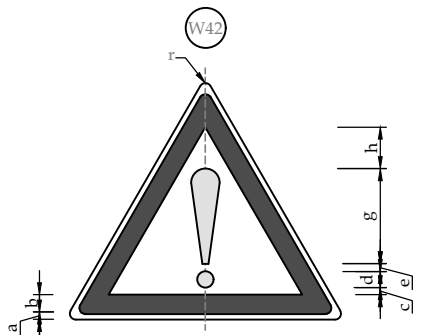
OVERTAKING PROHIBITION
DIMENSION (cm)

PARTS	SIGN SIZE	
	60 cm	75 cm
a	0.7	0.8
b	4.3	5.4
c	3.7	4.6
d	8.0	10.0
e	2.0	2.5
f	19.7	24.6



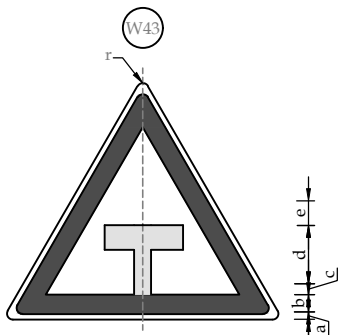
END OF OVERTAKING RESTRICTION
DIMENSION (cm)

PARTS	SIGN SIZE	
	60 cm	75 cm
a	0.7	0.8
b	4.3	5.4
c	3.7	4.6
d	8.0	10.0
e	2.0	2.5
f	19.7	24.6



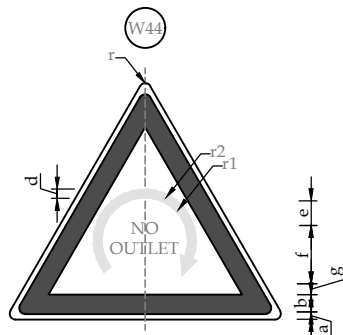
OTHER DANGER WARNING
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	1.7	2.1	2.5	2.9
d	6.7	8.3	10.0	11.7
e	1.3	1.7	2.0	2.3
f	1.1	1.4	1.7	2.0
g	16.7	20.8	25.0	29.2
h	3.3	4.2	5.0	5.8
r	2.3	2.9	3.5	4.1



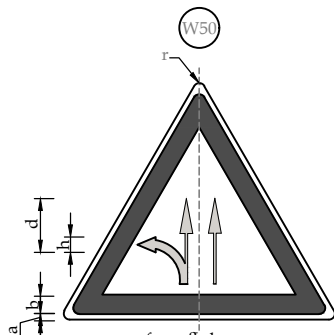
NO THROUGH ROAD
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	2.0	2.5	3.0	3.5
d	10.3	12.9	15.5	18.1
e	4.7	5.8	7.0	8.2
f	4.7	5.8	7.0	8.2
g	7.3	9.2	11.0	12.8
r	2.3	2.9	3.5	4.1



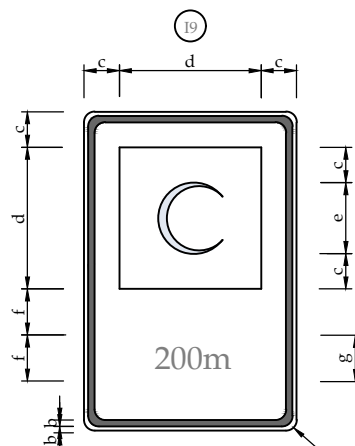
CUL-DE-SAC
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	4.3	5.4	6.5	7.6
c	20.9	26.2	31.4	36.7
d	3.6	4.5	5.4	6.3
e	4.2	5.2	6.3	7.3
f	3.7	4.6	5.5	6.4
g	2.4	2.9	3.5	4.1
r1	10.8	13.5	16.2	18.9
r2	12.6	15.7	18.9	22.0
r	2.3	2.9	3.5	4.1



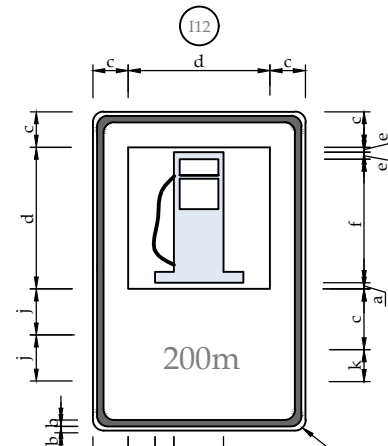
CUL-DE-SAC
DIMENSION (cm)

PARTS	SIGN SIZE			
	60 cm	75 cm	90 cm	105 cm
a	0.7	0.8	1.0	1.2
b	2.7	2.3	4.0	4.7
c	6.0	7.5	9.0	10.5
d	4.0	5.0	6.0	7.0
e	3.3	4.2	5.0	5.8
f	20.0	25.0	30.0	35.0
g	10.3	12.9	15.5	18.1
h	9.7	12.1	14.5	16.9
i	1.0	1.2	1.5	1.7
j	4.7	5.8	7.0	8.2
k	14.0	17.5	21.0	24.5



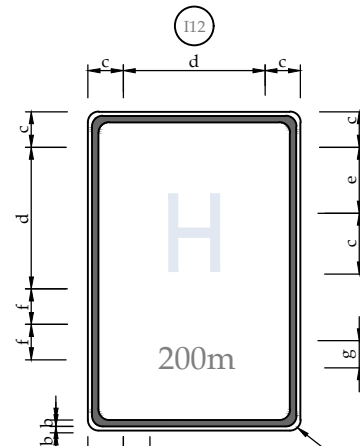
FIRST AID STATION
DIMENSION (cm)

PARTS	SIGN SIZE	
	60x90	90x135
a	3.0	4.5
b	1.2	1.8
c	10.0	15.0
d	40.0	60.0
e	20.0	30.0
f	13.0	19.5
g	7.0	10.5



PETROL PUMP
DIMENSION (cm)

PARTS	SIGN SIZE	
	60x90	90x135
a	3.0	4.5
b	1.2	1.8
c	10.0	15.0
d	40.0	60.0
e	20.0	30.0
f	30.0	45.0
g	4.0	6.0
h	6.0	9.0
i	8.5	12.5
j	13.0	19.5
k	7.0	10.5



HOSPITAL
DIMENSION (cm)

PARTS	SIGN SIZE	
	60x90	90x135
a	3.0	4.5
b	1.2	1.8
c	10.0	15.0
d	40.0	60.0
e	20.0	30.0
f	13.0	19.5
g	7.0	10.5

NOTES

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PROJECT:
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INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
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ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

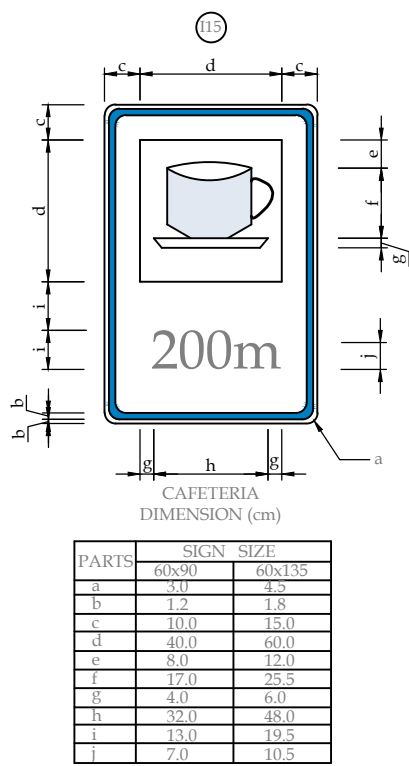
DRAWING TITLE: ROADS NETWORK ROAD TRAFFIC SIGNS DETAILS

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION		DRAWN	DESIGNED	APPROVED
22-12-2021	TENDER DRAWINGS		TAHIR	ENGR SHEHROZE	ENGR ARS

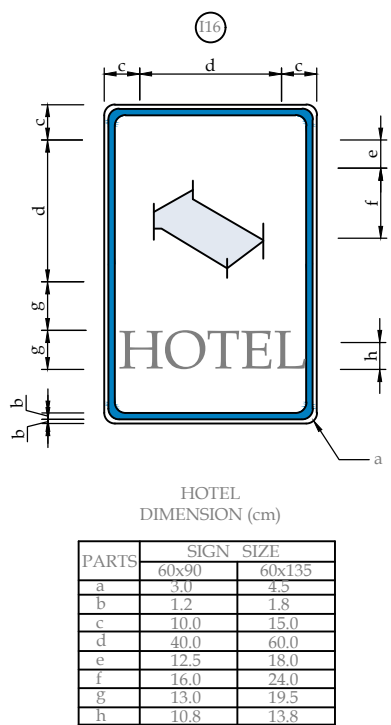
DRAWING N°:	SHEET	REV
NFIP-R-STD-5004	4 OF 5	00

CLIENT:
 PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN
PHONE: 021-3568-5041-9

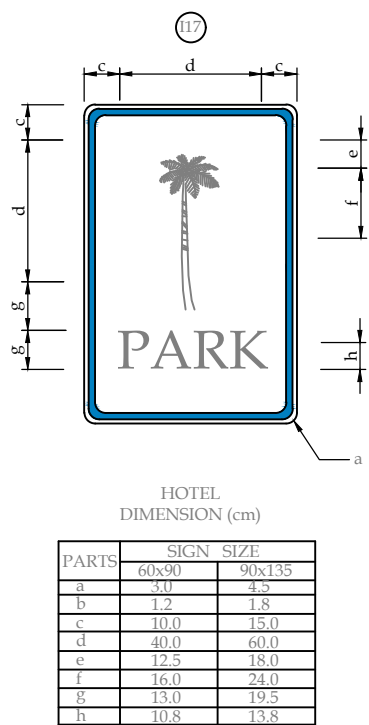
CONSULTANT:
 ASIAN CONSULTING ENGINEERS PVT.(LTD)
C-3 JHELLUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35400914-5 +92 32-142-71101
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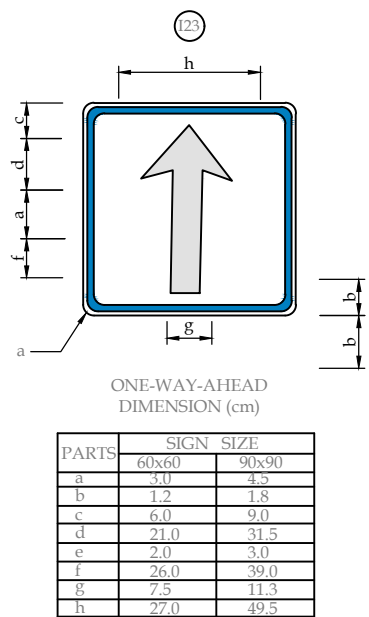
PARTS	SIGN SIZE
a	60x90
b	60x135
c	4.0
d	12.0
e	17.0
f	25.5
g	4.0
h	32.0
i	48.0
j	13.0
k	19.5
l	7.0
m	10.5



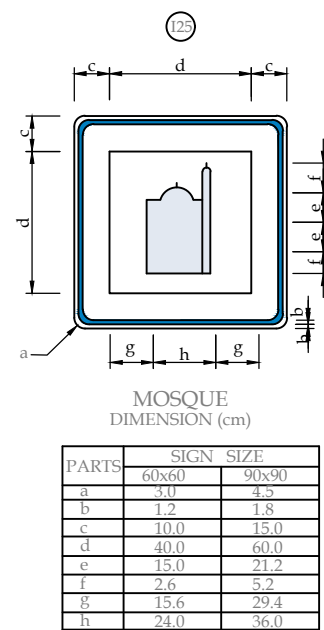
PARTS	SIGN SIZE
a	60x90
b	60x135
c	4.0
d	12.0
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f	25.5
g	4.0
h	32.0
i	48.0
j	13.0
k	19.5
l	7.0
m	10.5



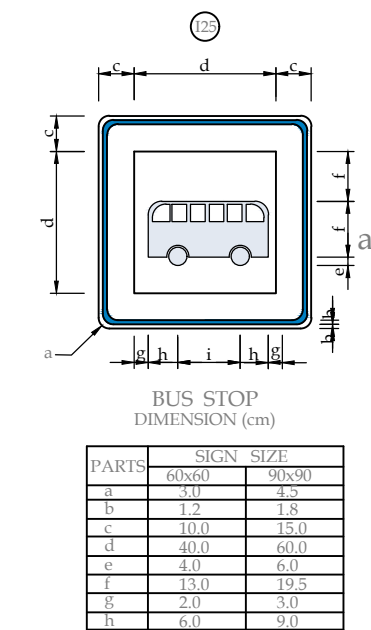
PARTS	SIGN SIZE
a	60x90
b	60x135
c	4.0
d	12.0
e	17.0
f	25.5
g	4.0
h	32.0
i	48.0
j	13.0
k	19.5
l	7.0
m	10.5



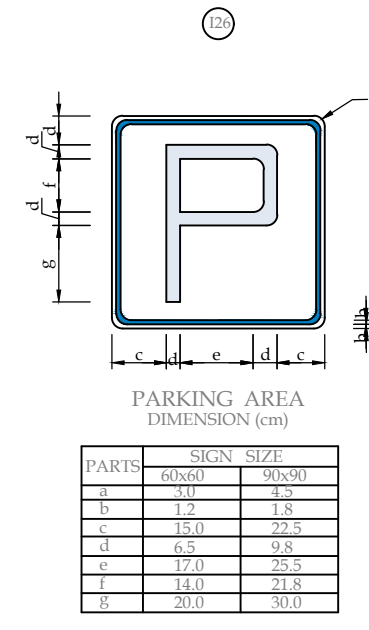
PARTS	SIGN SIZE
a	60x60
b	90x90
c	4.0
d	12.0
e	17.0
f	25.5
g	4.0
h	32.0
i	48.0
j	13.0
k	19.5
l	7.0
m	10.5



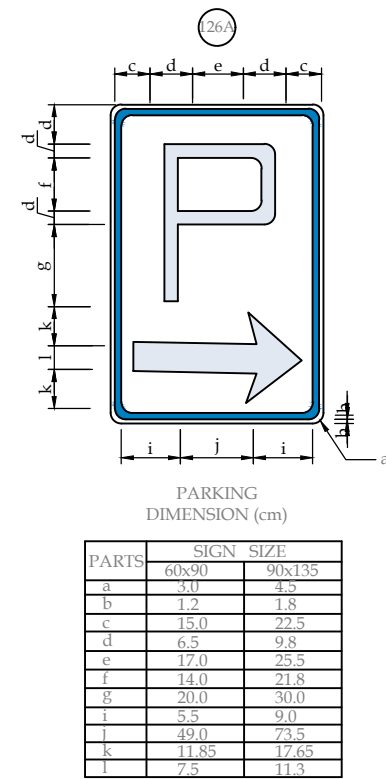
PARTS	SIGN SIZE
a	60x60
b	90x90
c	4.0
d	12.0
e	17.0
f	25.5
g	4.0
h	32.0
i	48.0
j	13.0
k	19.5
l	7.0
m	10.5



PARTS	SIGN SIZE
a	60x60
b	90x90
c	4.0
d	12.0
e	17.0
f	25.5
g	4.0
h	32.0
i	48.0
j	13.0
k	19.5
l	7.0
m	10.5



PARTS	SIGN SIZE
a	60x60
b	90x90
c	4.0
d	12.0
e	17.0
f	25.5
g	4.0
h	32.0
i	48.0
j	13.0
k	19.5
l	7.0
m	10.5

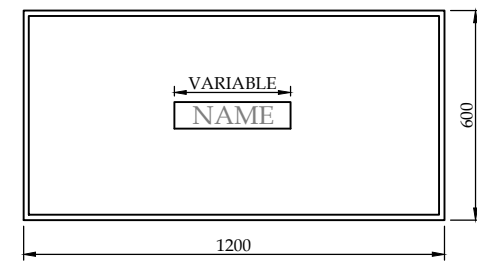
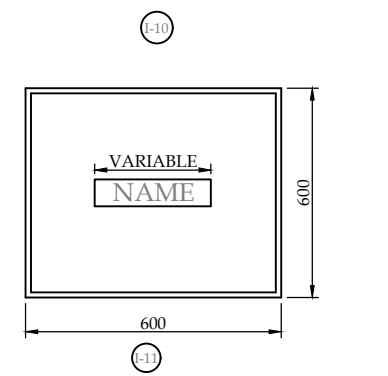
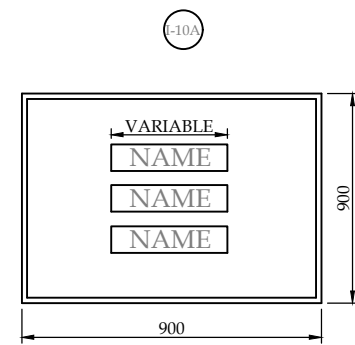
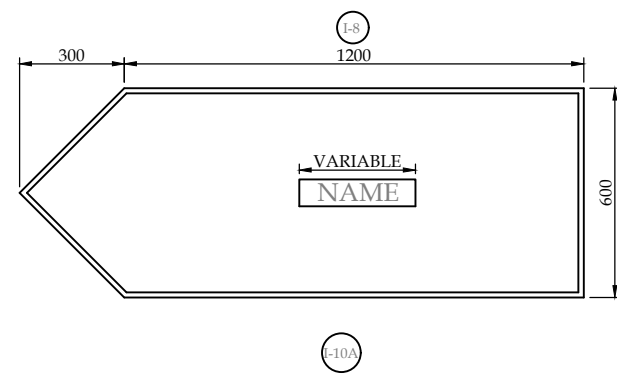


PARTS	SIGN SIZE
a	60x90
b	90x135
c	4.0
d	12.0
e	17.0
f	25.5
g	4.0
h	32.0
i	48.0
j	13.0
k	19.5
l	7.0
m	10.5

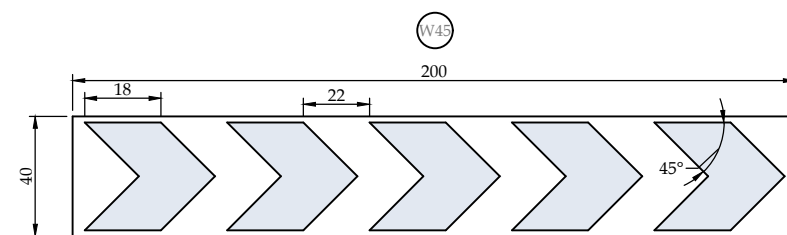
CATEGORIES PF TRAFFIC SIGN

CATEGORY	SHAPE OF MODEL	TYPE
01		WARNING/DANGER
02		REGULATORY/PROHIBITORY
3a		INFORMATORY
3b		
3c		

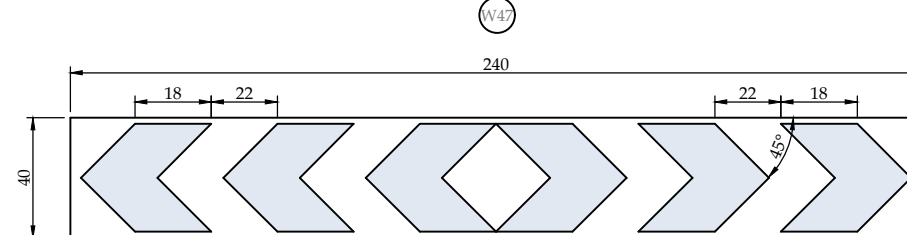
SIZE & LOCATION OF TRAFFIC SIGNS			
ROAD TYPE	SIZE OF TRAFFIC SIGNS	LOCATION OF WARNING SIGNS	
		MINIMUM	MAXIMUM
PRINCIPAL ARTERIALS	90	75m	150m
SECOND ARTERIALS	90	75m	150m
COLLECTOR ROADS	75	60m	120m
LOCAL STREETS	60	30m	60m



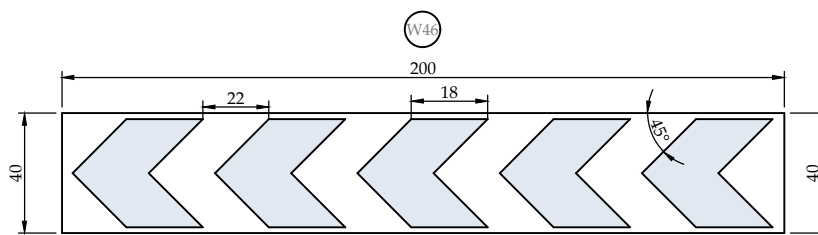
INFORMATORY SIGN



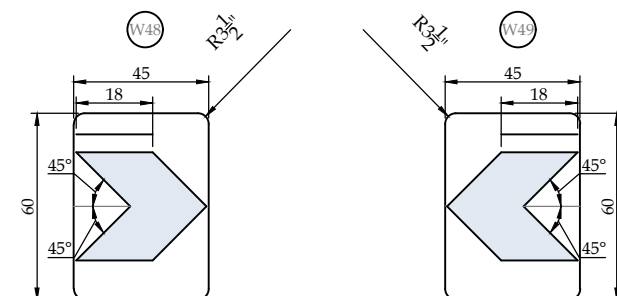
MLUTIPLE CHEVRON (RIGHT)



MLUTIPLE CHEVRON (BOTH WAYS)



MLUTIPLE CHEVRON (LEFT)



SIZE & LOCATION OF TRAFFIC SIGNS		
ROAD TYPE	SIZE & LOCATION OF WARNING SIGNS	SIZE & LOCATION OF REGULATORY SIGNS
ARTERIALS	HEIGHT OF TRIANGLE=750mm	DIAMETER OF SIGN=750mm
(MAJOR & MINORS)	DISTANCE FROM A HAZARD=60M	DISTANCE FROM NEAR SIDE EDGE OF CROSS ROAD=75M
COLLECTORS & LOCAL STREETS	HEIGHT OF TRIANGLE=600mm	DIAMETER OF SIGN=600mm
	DISTANCE FROM A HAZARD=30M	DISTANCE FROM NEAR SIDE EDGE OF CROSS ROAD=75M

NOTES

- ALL DIMENSIONS ARE IN CENTIMETERS/MILLIMETERS UNLESS INDICATED OTHERWISE.
- THE TRAFFIC SIGNS DETAILS SHOWN IN THE DRAWINGS ARE BASED ON "NTRC'S MANUAL OF SIGNS, SIGNALS AND ROAD MARKINGS, JULY 1989. FOR COLOR SCHEME SAME MANUAL SHOULD BE USED.
- TRAFFIC SIGNS WITH DESIGNATION R51 TO R52 AND W43 TO W47 ARE NOT IN NTRC MANUAL.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL OF THE ENGINEER.
- ALL TRAFFIC SIGNS SHALL BE MANUFACTURED AS PER SPECIFICATIONS. REFER TRAFFIC SIGNS AND MOUNTING DETAILS FOR FURTHER INFORMATION ABOUT TRAFFIC SIGNS MATERIAL.
- THE MATERIAL OF SIGN PANELS AND REFLECTIVE SHEETING SHALL BE APPROVED BY THE ENGINEER PRIOR TO MANUFACTURING OF TRAFFIC SIGNS.

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ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
ROADS NETWORK
ROAD TRAFFIC SIGNS DETAILS

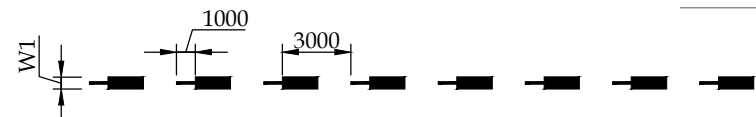
ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	TAHIR	ENGR SHEHROZE	ENGR ARS	

DRAWING N°:	SHEET	REV
NFIP-R-STD-5005	5 OF 5	00

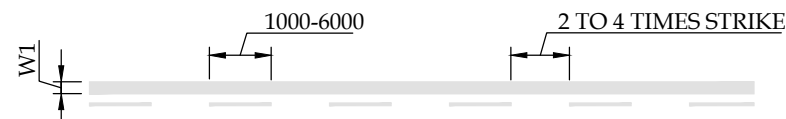
CLIENT:
 PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI, PAKISTAN.
PHONE: 021-3568-5041-9

CONSULTANT:
 ASIAN CONSULTING ENGINEERS PVT.(LTD)
C-3 JHELMUM BLOCK, GREEN FORT-II, LAHORE, PAKISTAN
TELEPHONE: +92 42 35450914-5 +92 32-142-71101
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PAVEMENT MARKING LINE



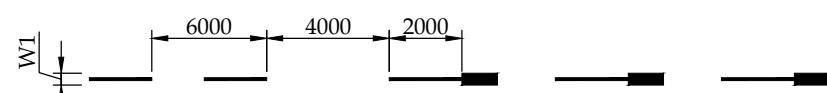
M-1 CENTER LINE (WHITE)



M-2 NO PASSING LINE ONE
SIDE(YELLOW)



M-3 NO PASSING LINE(WHITE)



M-4 TRAFFIC LANE LINE(WHITE)



M-5 TRAFFIC LANE LINE
IN CENTER(WHITE)



M-6 EDGE MARKING(YELLOW)



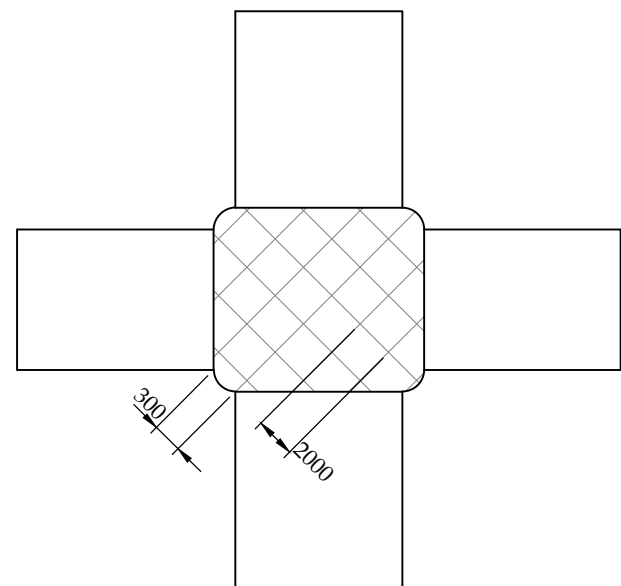
M-7 NO PARKING LINE (YELLOW)



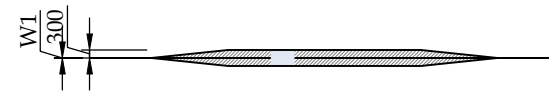
M-8 NO STOPPING LINE (WHITE)



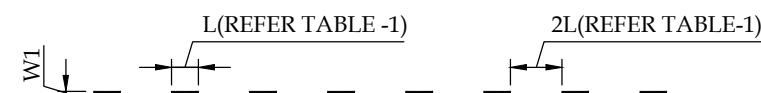
M-9 MEDIAN LINES (YELLOW)



M22 BOX JUNCTION MARKING



M11 OBSTRUCTION
MARKING(YELLOW)



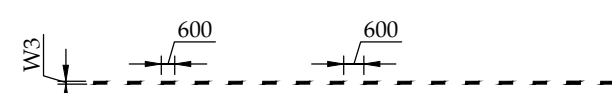
M-12 GUIDE LINE(WHITE)



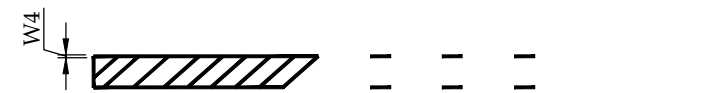
M-14 EXCLUSIVE TURN
LANE (WHITE)



M-15 STOP LINE (WHITE)



M-16 GIVE WAY LINE (WHITE)



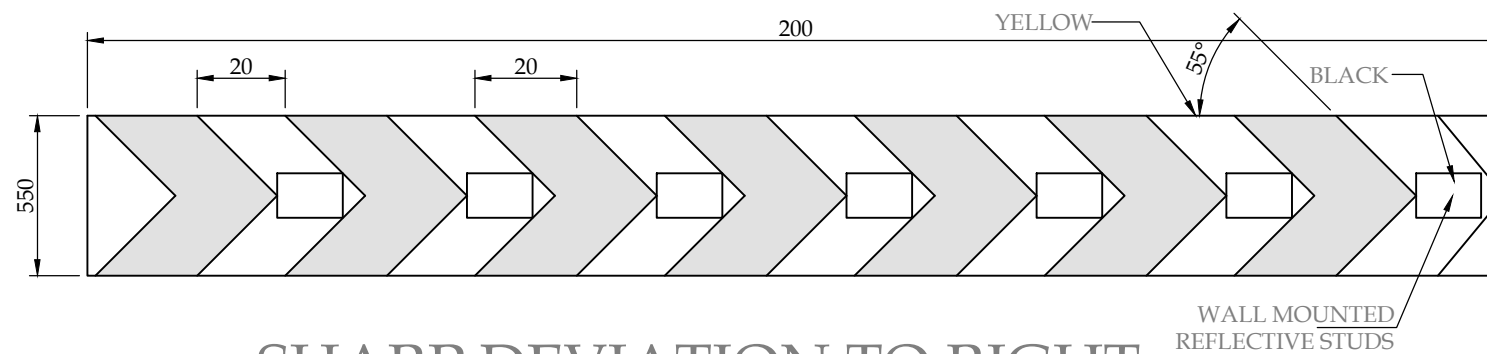
M-20 PAVEMENT REDUCTION
MARKING(YELLOW)



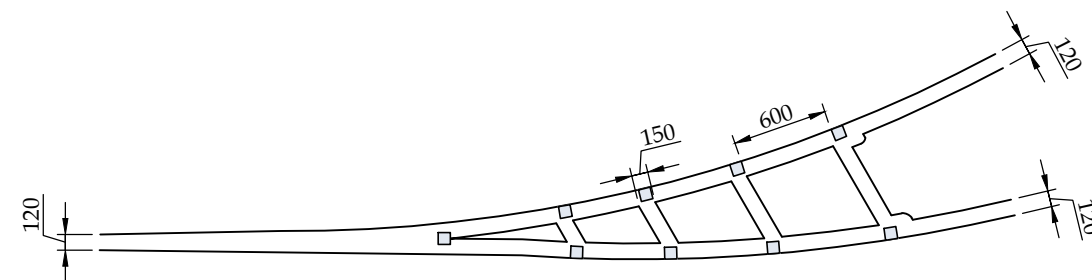
M-21 CYCLIST CROSSING
(WHITE)



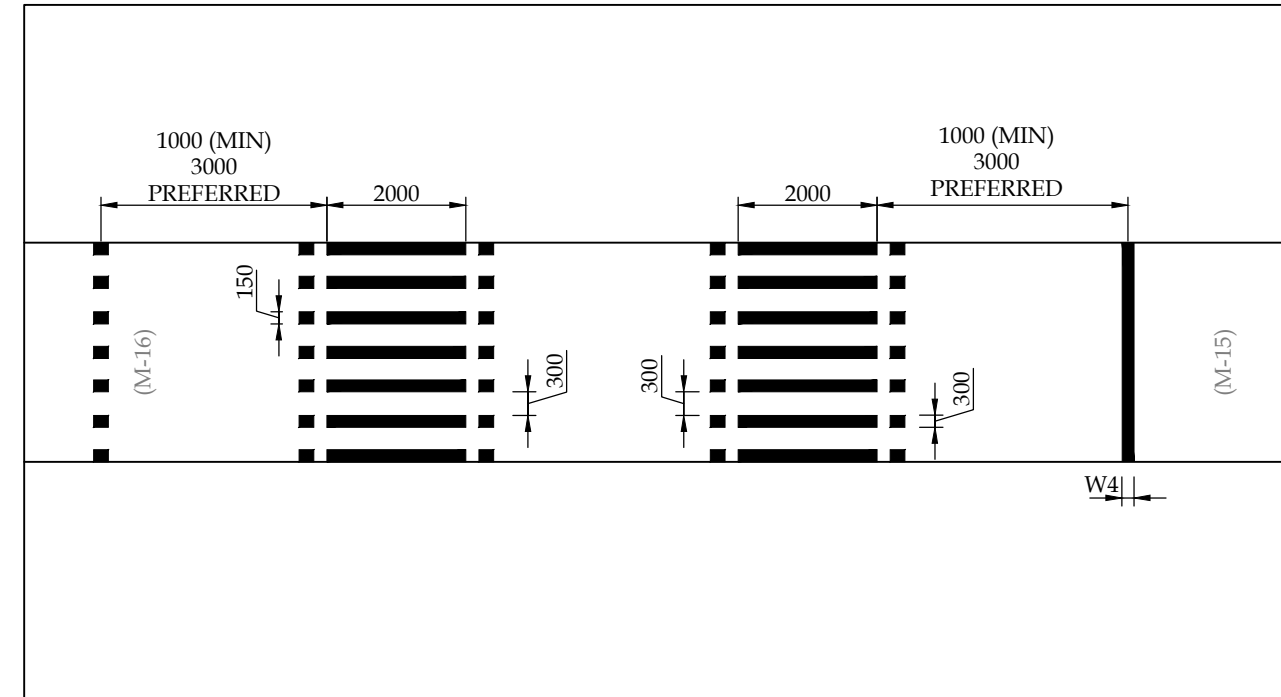
BUSS STOP STOP
M-26 WORD MARKING
(WHITE)



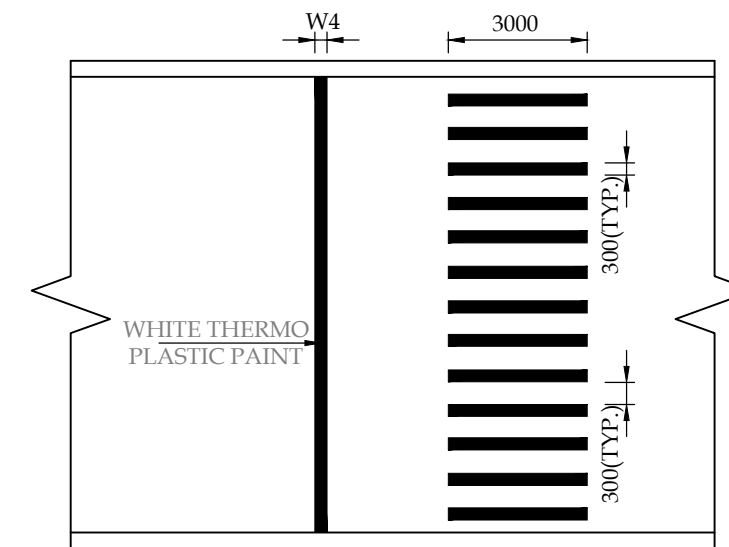
SHARP DEVIATION TO RIGHT



TYPICAL DETAIL OF ISLAND APPROACH/EXIT



M-18 CROSS WALK WITH
LONGITUDINAL LINES



M-18 TYPICALLY DETAIL OF
PEDESTRIAN CROSSING

TABLE-1

ROADWAY SPEED		L (mm)	W1	W2	W3	W4	W5
SERVICE ROAD	< 30 km/hr	2000	100	100	100	300	100
STREETS	50-30 km/hr	3000	120	120	150	300	100
MAIN BOULEVARD	> 50 km/hr	4000	120	150	200	400	100

NOTES

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SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

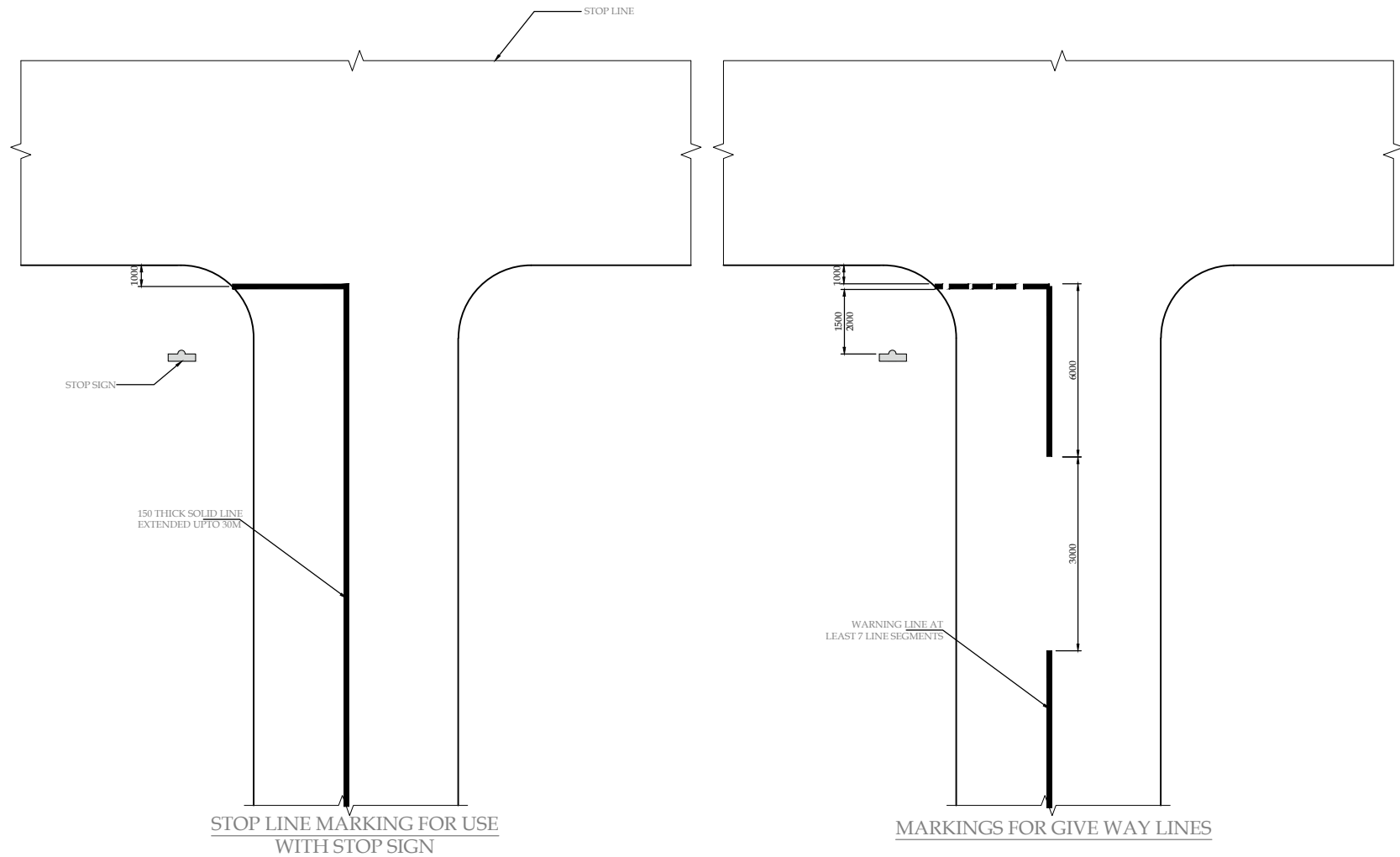
DRAWING TITLE:
ROADS NETWORK
PAVEMENT MARKINGS

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	TAHR	ENGR SHEHROZE	ENGR ARSLAN	

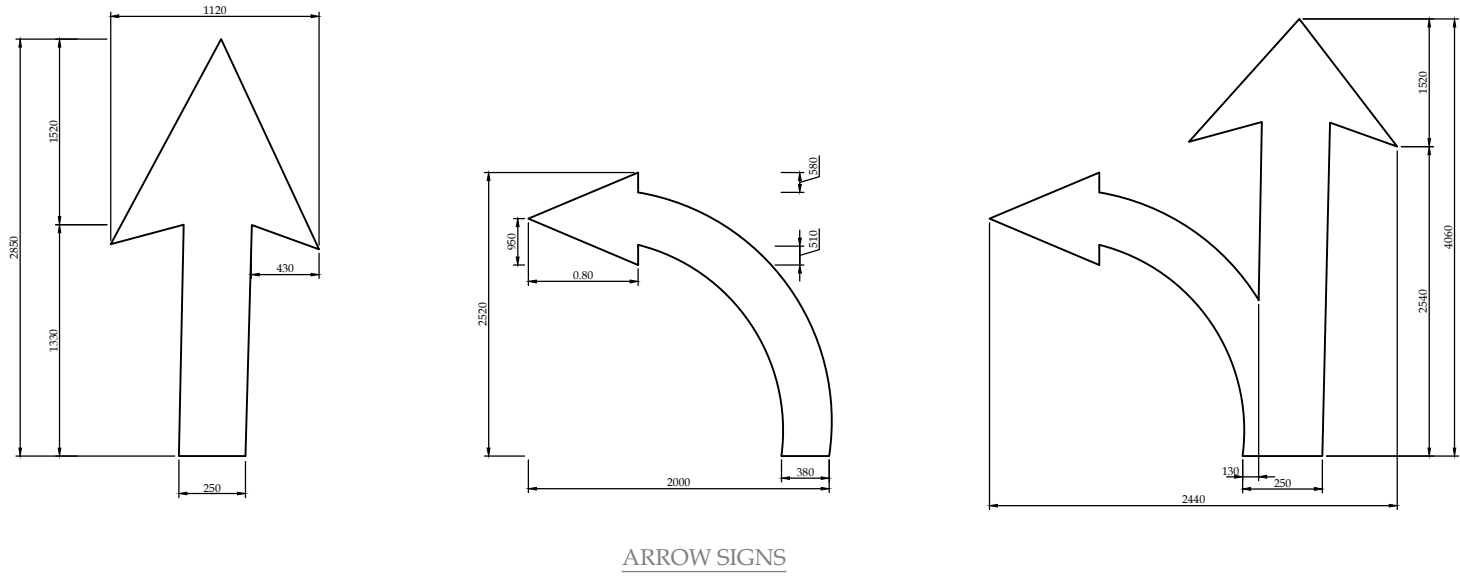
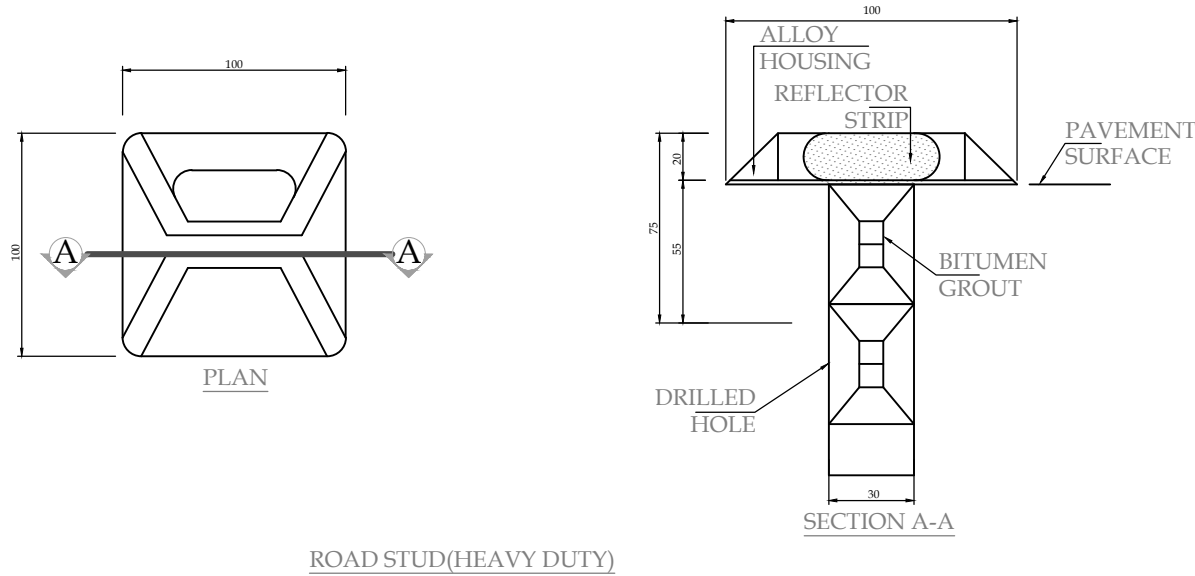
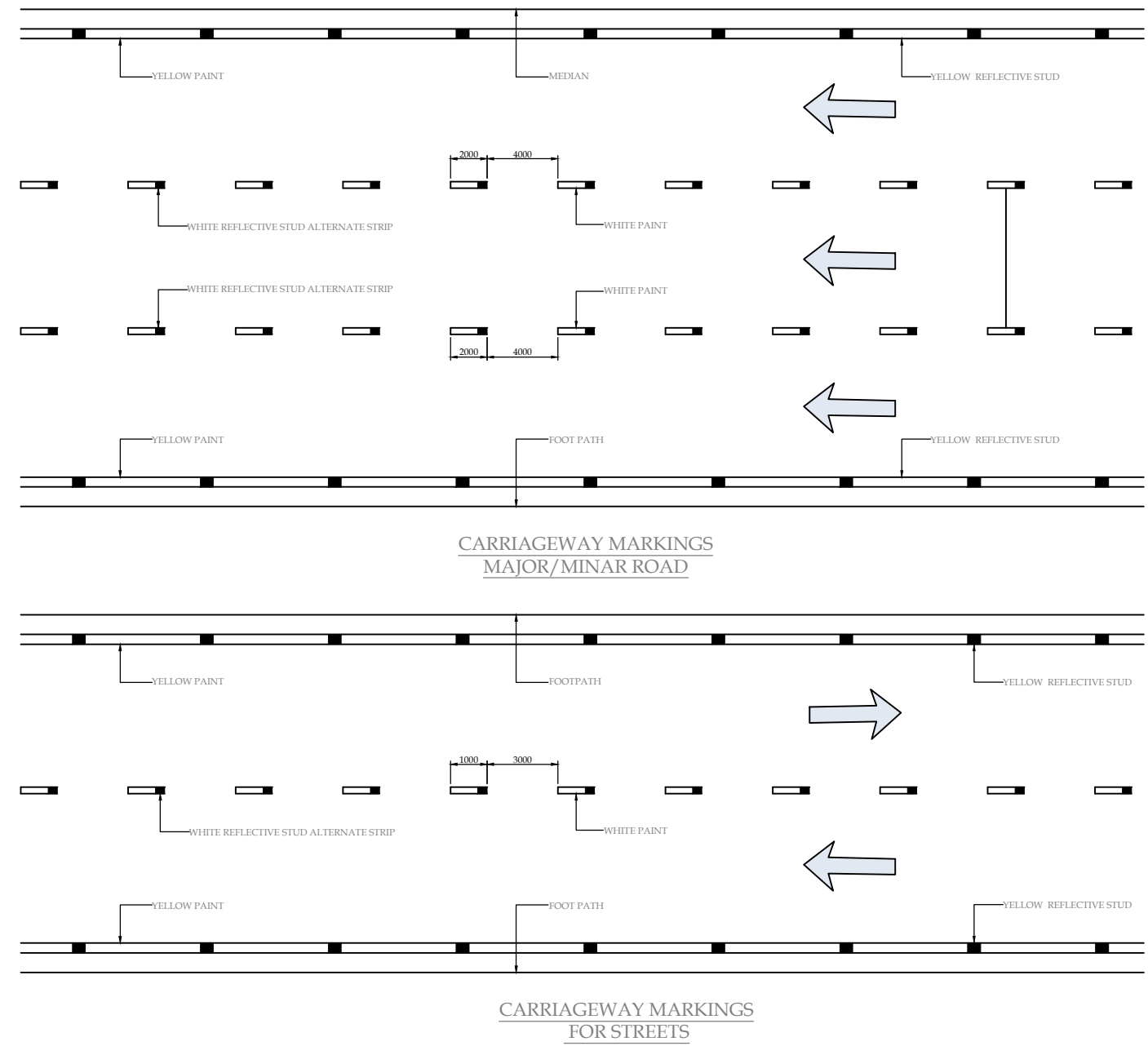
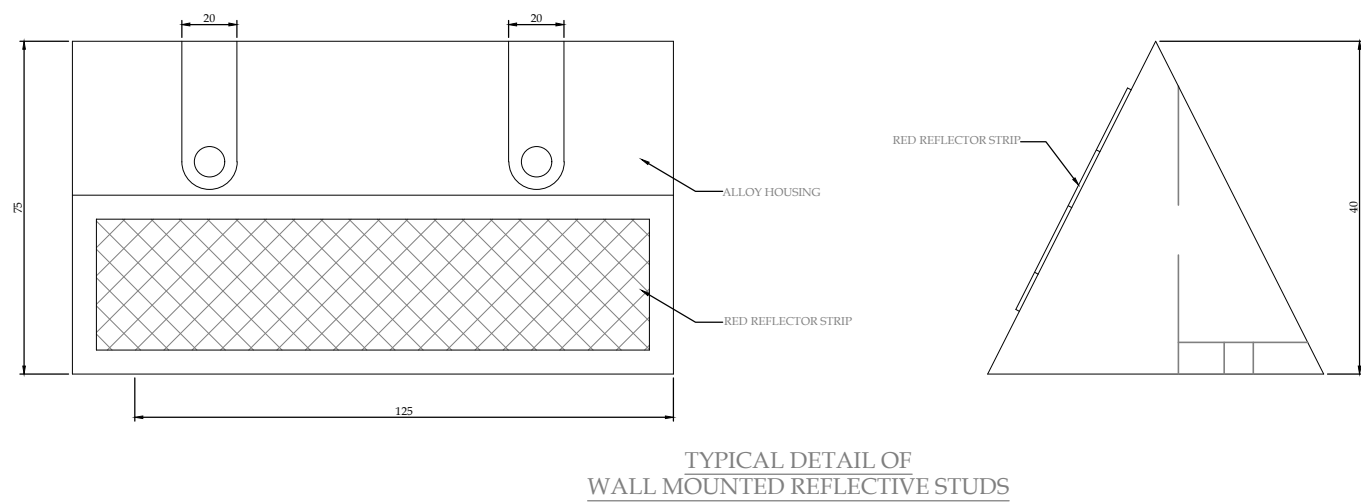
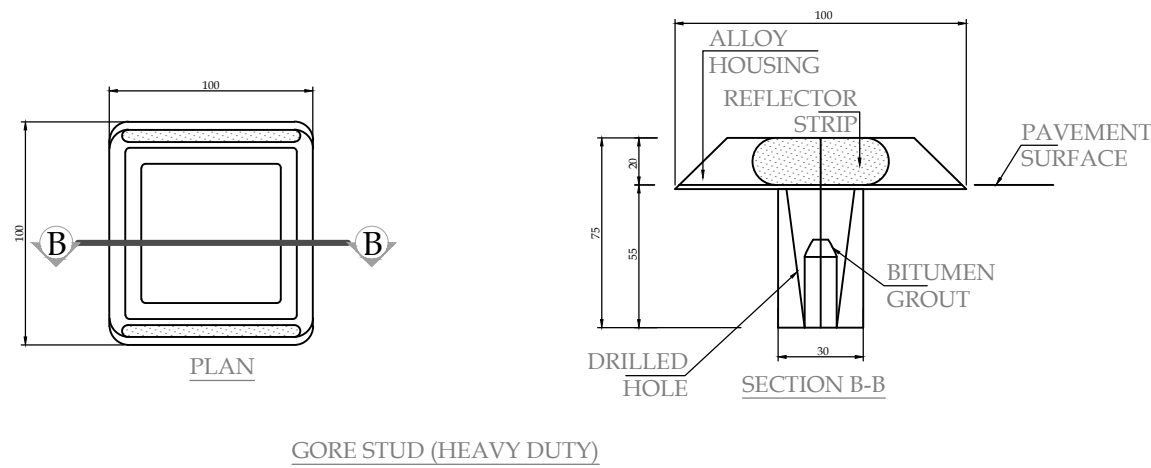
DRAWING N°:	SHEET	REV
NFIP-R-STD-5006	1 OF 2	00

CLIENT:
PAKISTAN INDUSTRIAL DEVELOPMENT
CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN
PHONE: 021-3568-5041-9

CONSULTANT:
ASIAN CONSULTING ENGINEERS PVT.(LTD)
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COLOR OF REFLECTIVE STUDS	USAGE	LOCATION
WHITE	FOR LANE LINE, CENTER LINE & NO PASSING MARKING	AT START OF EVERY STROKE
YELLOW	FOR EDGE MARKING & MEDIAN LINE	6000 C/C
GREEN	FOR EDGE LINE CONTINUATION, AT JUNCTION/ U-TURNS CROSS ROADS WHERE CROSSING OF THE EDGE LINE IS ALLOWED	
RED	AT HAZARDOUS LIKE BEGINNING OF NARROW BRIDGES, RIGID STRUCTURES CLOSE TO THE ROADLOW UNDERPASS	



NOTES

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SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
ROADS NETWORK
PAVEMENT MARKINGS

ORIGINAL :	DATE :	SCALE :
A2	JULY, 2021	

DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED
22-12-2021	TENDER DRAWINGS	TAHR	ENGR. SHEHROZ	ENGR. ARSLAN

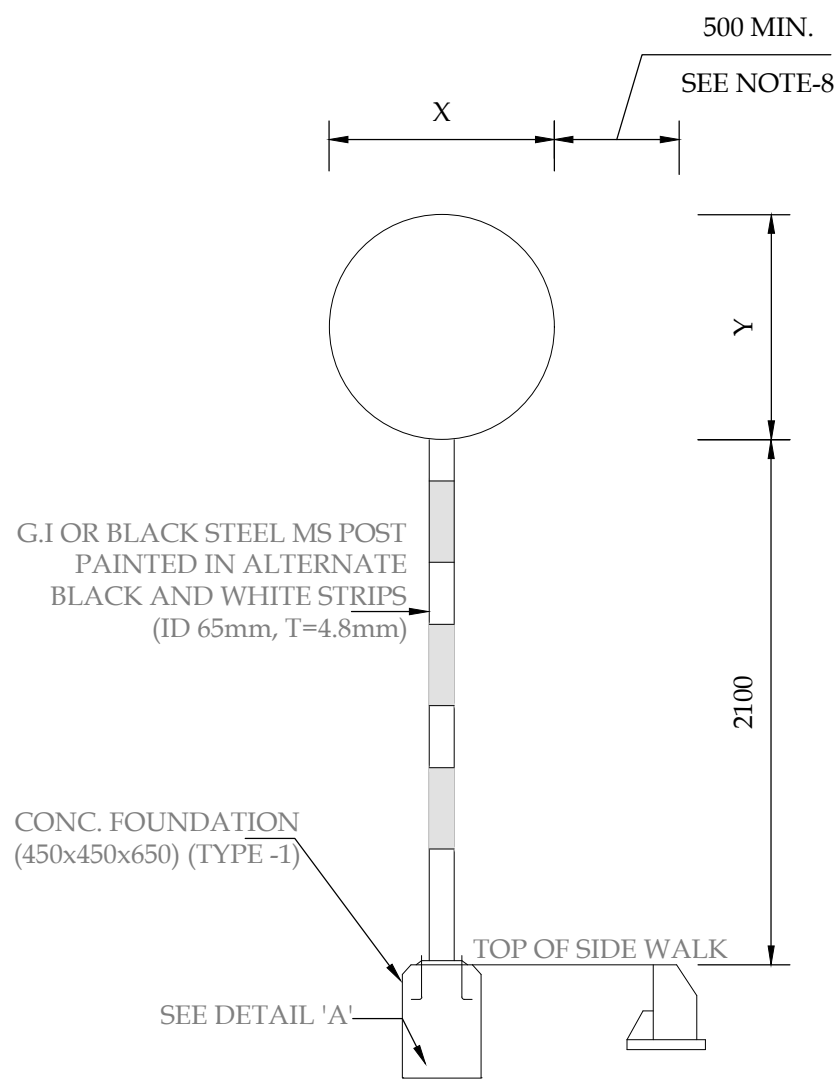
DRAWING N°:
NFIP-R-STD-5007

SHEET
2 OF 2

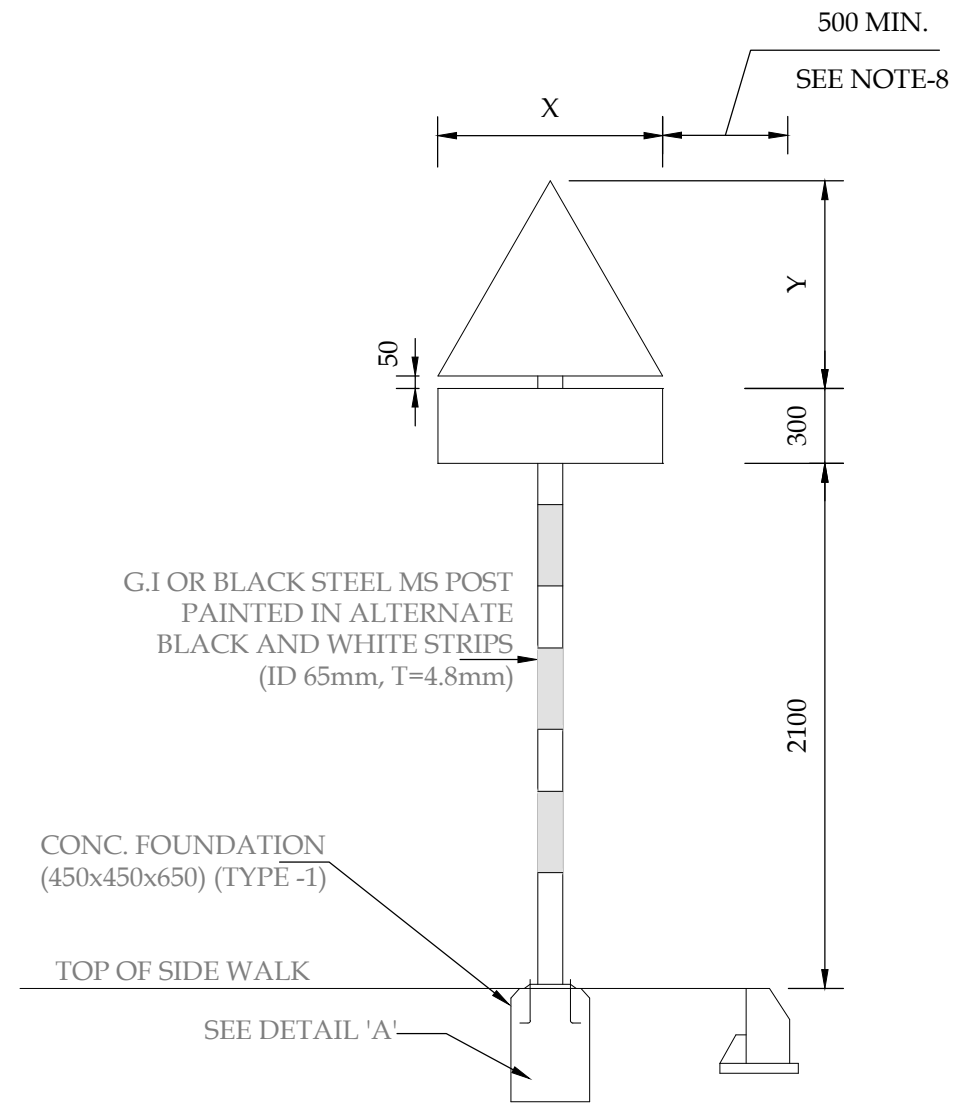
REV
00

CLIENT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN.
PHONE: 021-3568-5041-9

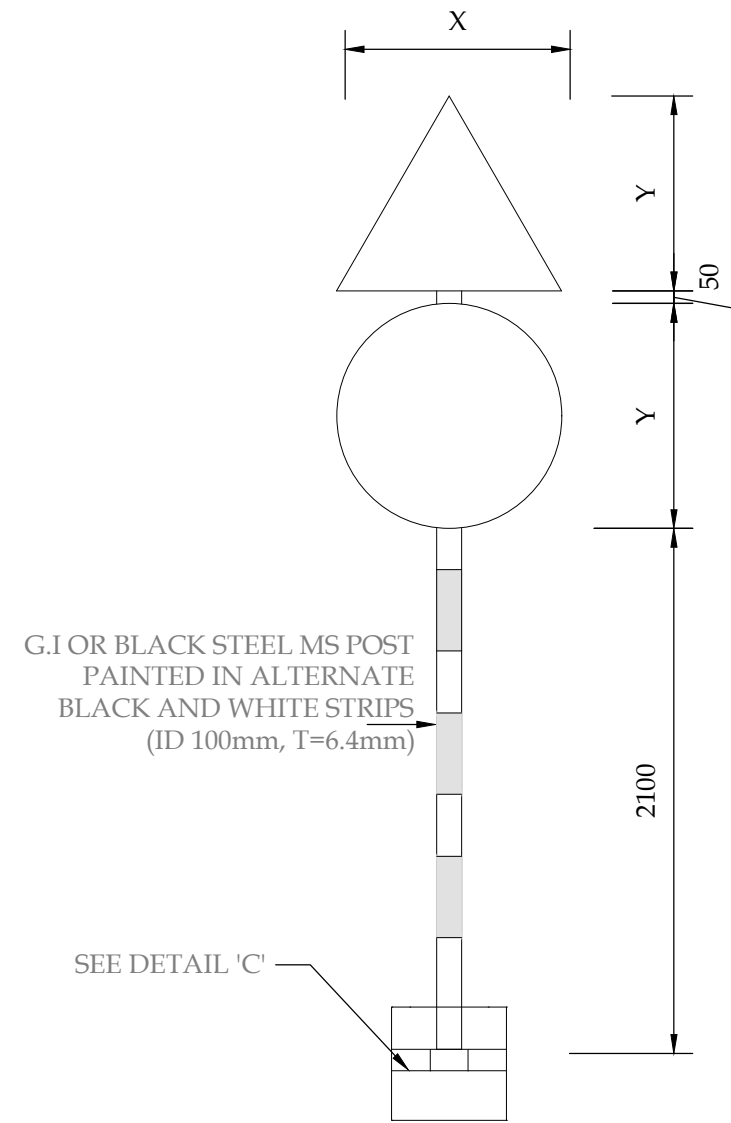
CONSULTANT:
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TELEPHONE: +92 42 35450914-5 +92 32-142-71101
FAX: +92 42 35450916 WEB: www.asiancon.com



CATEGORY -02

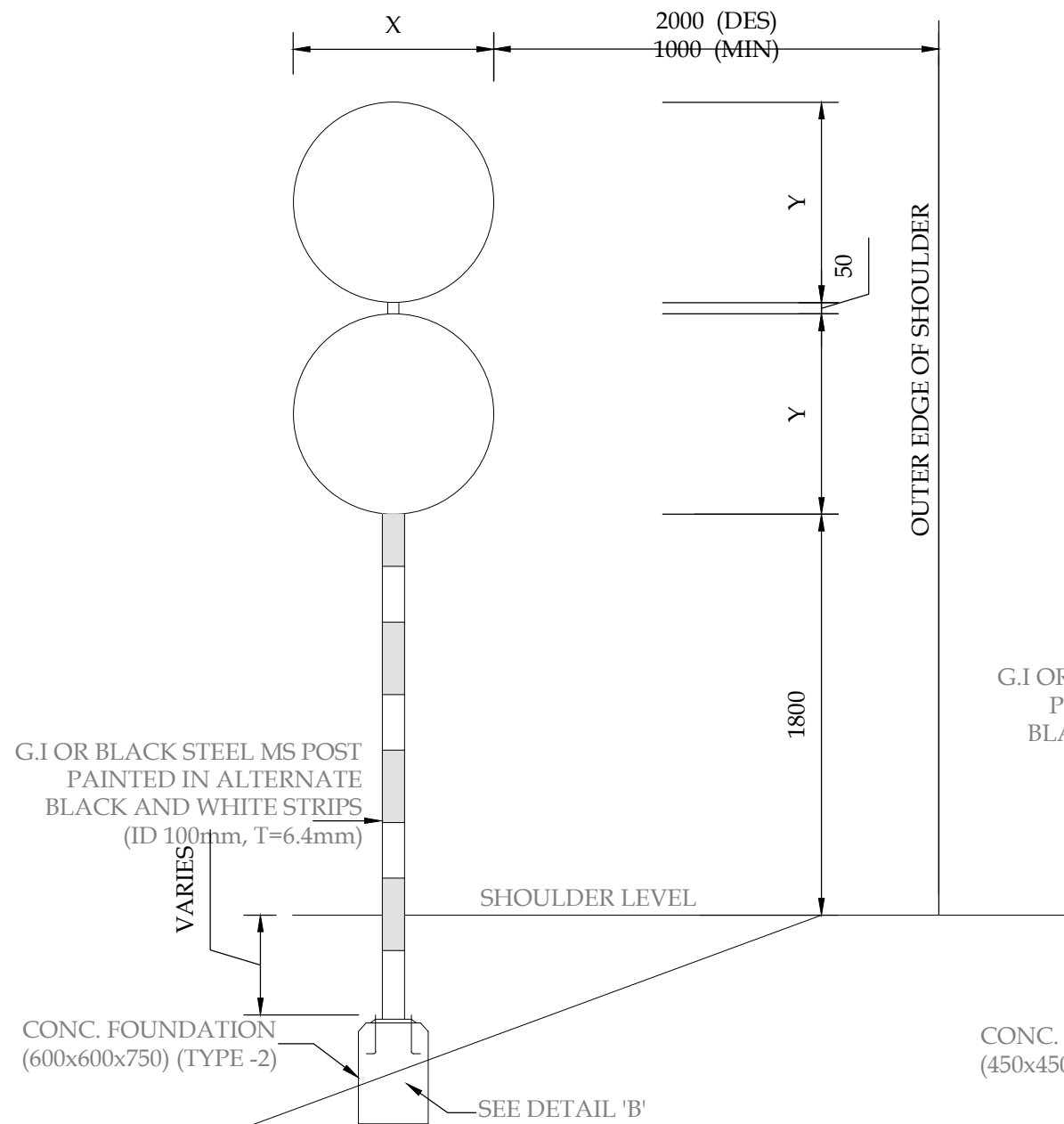


CATEGORY -01

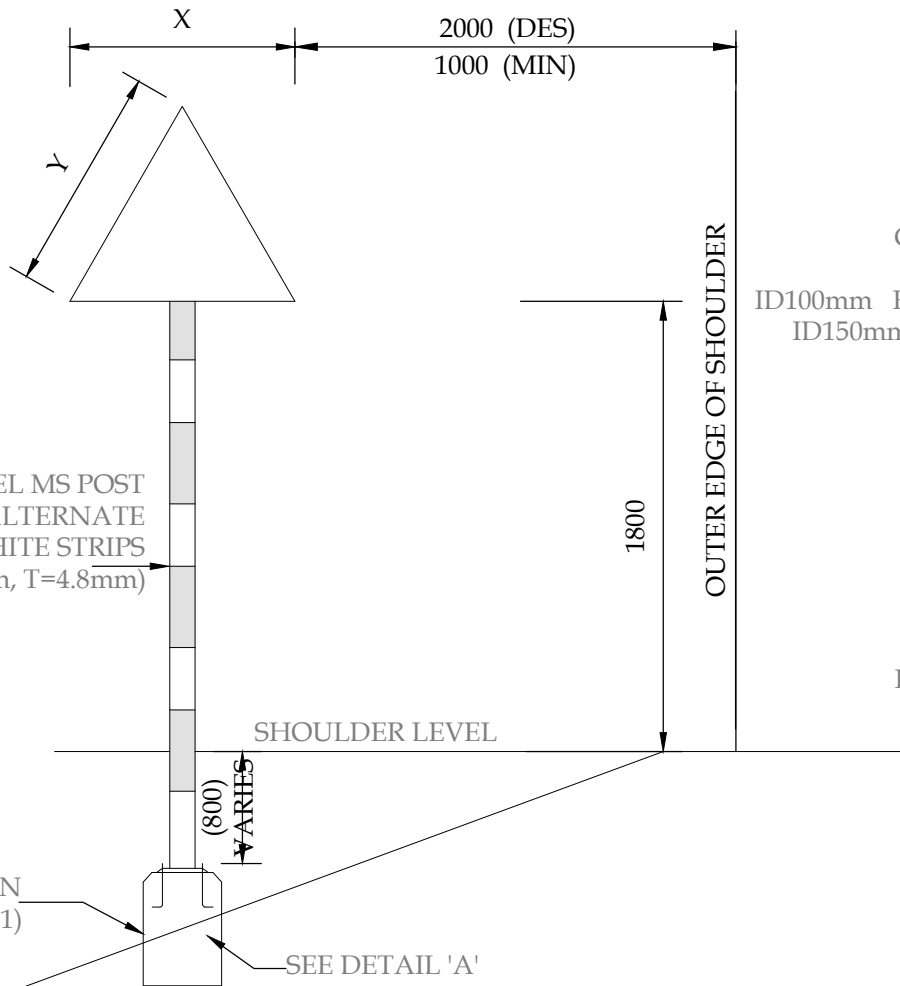


CATEGORY 1&2

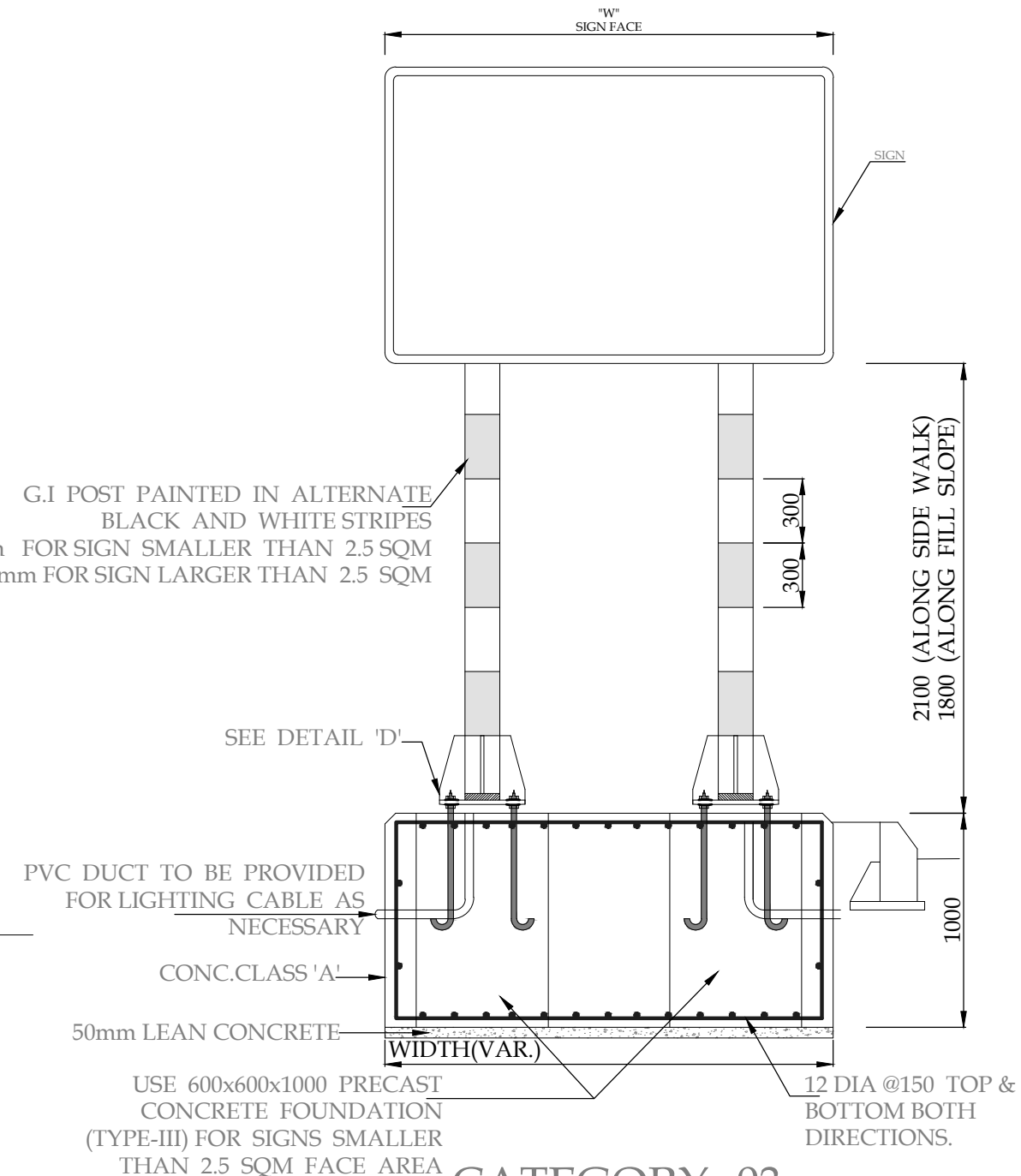
MOUNTED ON STRUCTURE



CATEGORY -02



CATEGORY-01



CATEGORY -03

POST FOR LARGE SIGNS (> 1.5sqm FACE AREA)

(TYPE - 3 & 4)

(SEE NOTE-5&6)

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS INDICATED OTHERWISE.
2. SIGNS PANELS SHALL BE MADE OF ALUMINUM ALLOY OR POLYVINYL PLATES OF 3MM THICKNESS AS PER DECISION THE ENGINEER.
3. HIGH INTENSITY GRADE REFLECTIVE SHEETING TO BE USED FOR TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
4. TWO SIGN PLATES MAXIMUM MAY BE PLACED ON ONE POST ASSEMBLY.
5. USE DIA 65mm GI OR BLACK STEEL MS POST WITH 450x450x550 (TYPE-I), DIA 100mm GI OR BLACK STEEL MS POST WITH 600x500x750 FOUNDATION (TYPE-II) FOR PROHIBITIVE MANDATORY, WARNING AND SMALL INFORMATORY SIGNS. FOR LARGE SIGNS, USE 100mm DIA GI OR BLACK STEEL MS POST WITH 600x500x1000mm CONCRETE POST FOUNDATION (TYPE-III). FOR SIGNS WITH FACE AREA LARGER THAN 2.5 Sq.M. USE 150mm DIA GI OR BLACK STEEL MS POST WITH IN SITU REINFORCED CONCRETE FOUNDATION (TYPE-IV).
6. WIDTH OF CAST IN SITU CONCRETE FOUNDATION FOR LARGE SIGNS (TYPE-IV) SHALL BE SAME AS THAT OF SIGN FACE, WHERE AS ITS BREADTH AND DEPTH SHALL BE 1000mm.
7. BLACK STEEL MS PIPE SHALL BE PAINTED WITH PRIMER (ANTI CORROSIVE) AND TWO COATS OF GRAY COLOR.
8. A SIGN POST SHALL NOT BE MOUNTED IN THE MIDDLE OF SIDE WALK.
9. THE CONTRACTOR SHALL SUBMIT THE SHOP DRAWING OF TRAFFIC SIGNS WITH MOUNTING AND FASTENING DETAILS FOR THE ENGINEER'S APPROVAL.

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ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
ROADS NETWORK
SIGN POST FOUNDATION DETAILS

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN	DESIGNED	APPROVED	
22-12-2021	TENDER DRAWINGS	TAHIR	ENGR SHEHROZE	ENGR ARSLAN	

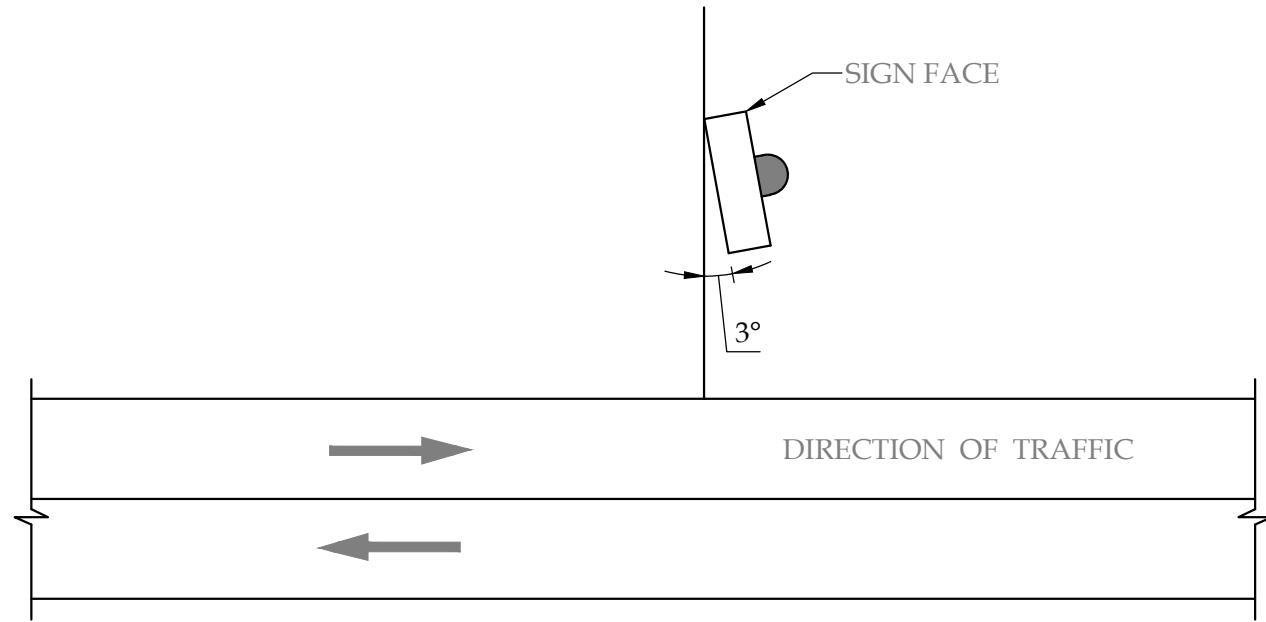
DRAWING N°:
NFIP-R-STD-5008

SHEET
1 OF 2

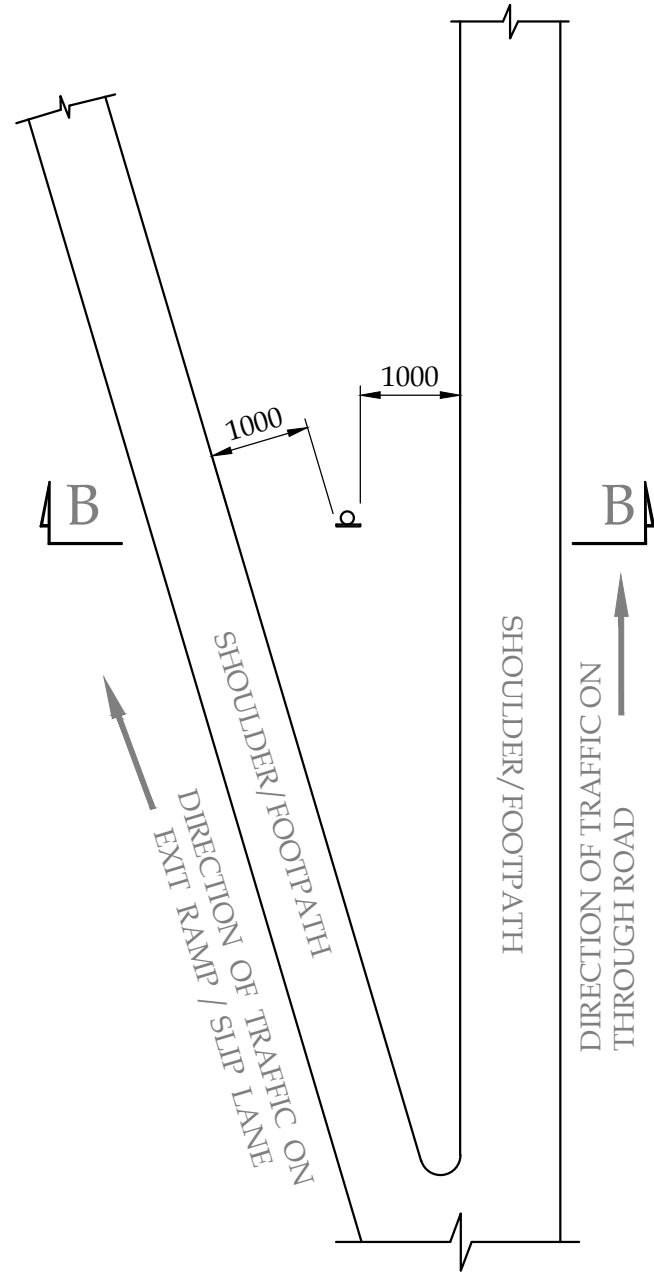
REV
00

CLIENT:
 **PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)**
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
PAKISTAN.
PHONE: 021-3568-5041-9

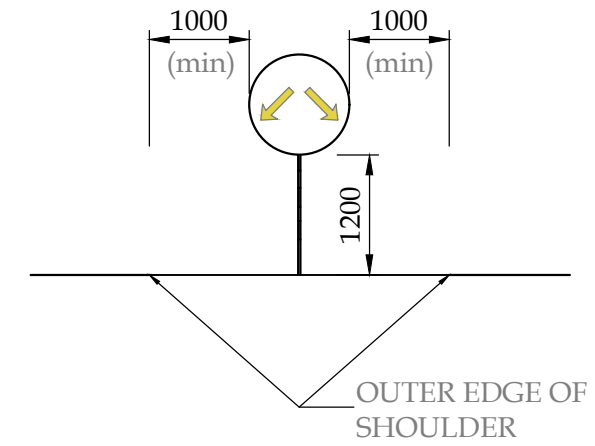
CONSULTANT:
 **ASIAN CONSULTING ENGINEERS PVT.(LTD)**
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TELEPHONE: +92 42 35450914-5 +92 32-142-71101
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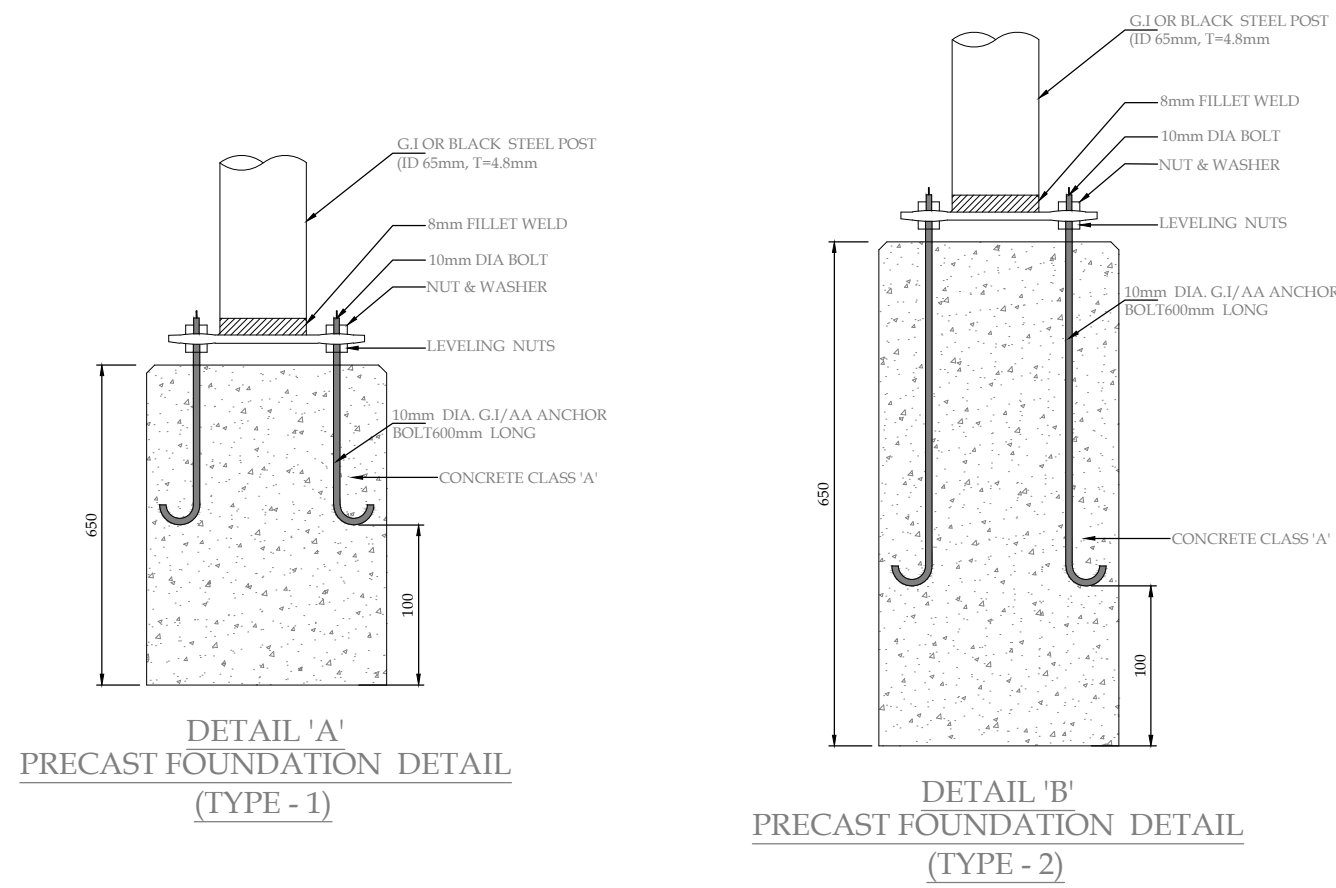
ORIENTATION OF SIGN IN PLAN
RELATED TO DIRECTION OF TRAFFIC



PLACING OF SIGN AT NOSE

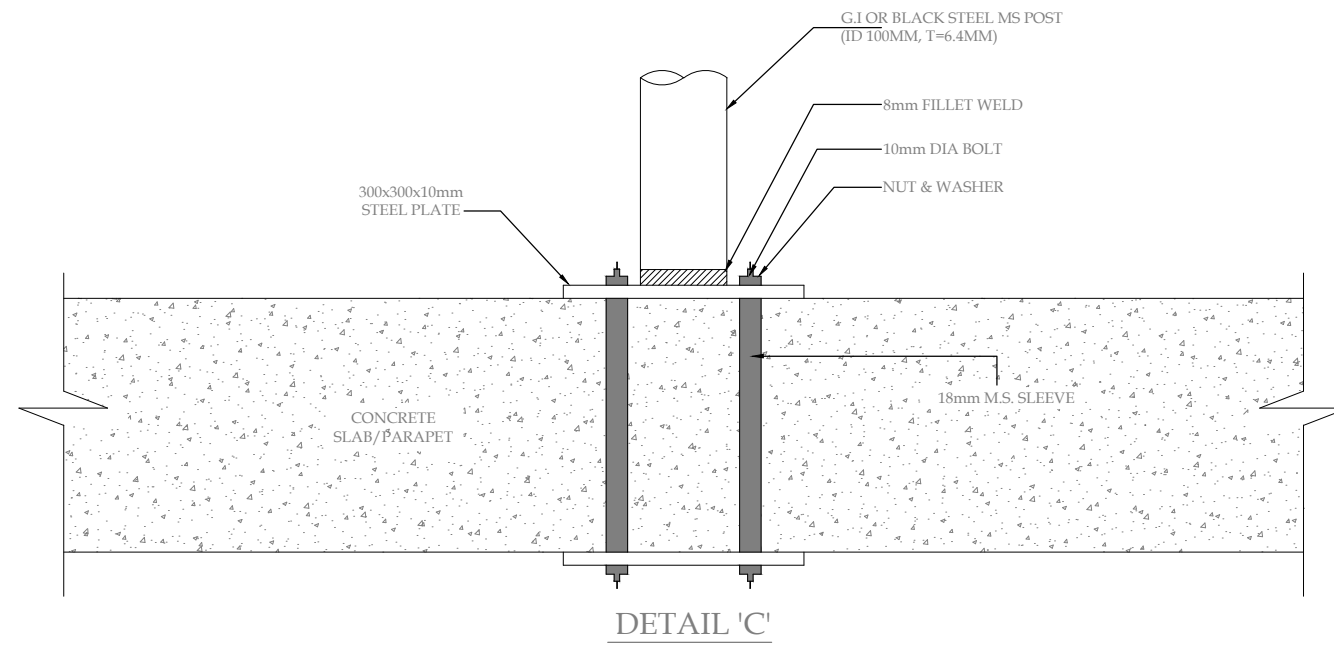


SECTION B-B

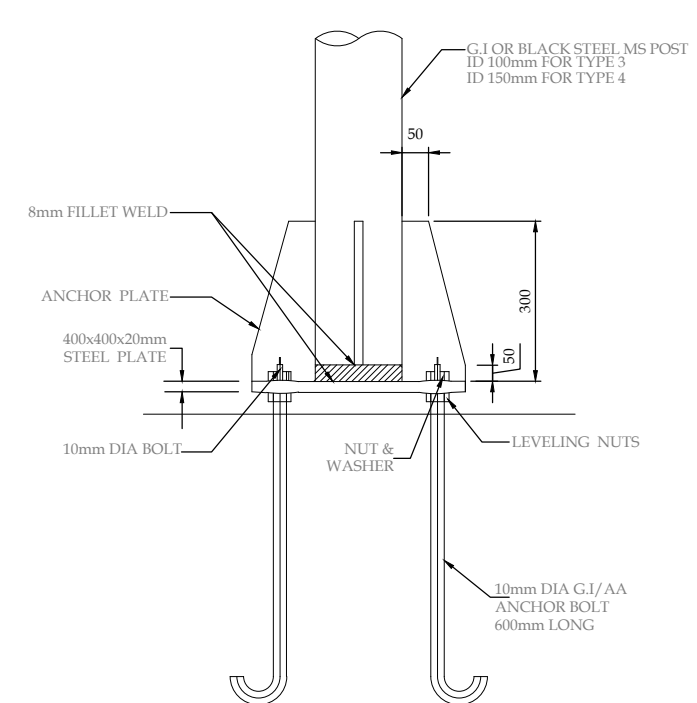


DETAIL 'A'
PRECAST FOUNDATION DETAIL
(TYPE - 1)

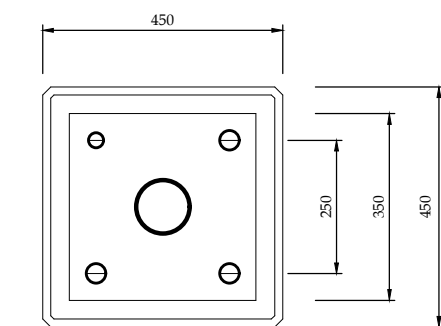
DETAIL 'B'
PRECAST FOUNDATION DETAIL
(TYPE - 2)



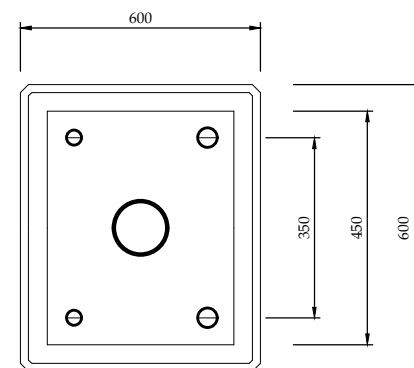
DETAIL 'C'



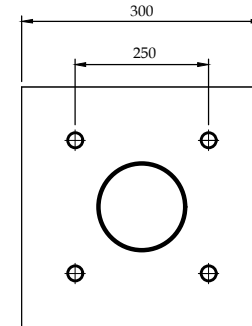
DETAIL 'D'
(TYPE - 3 & 4)



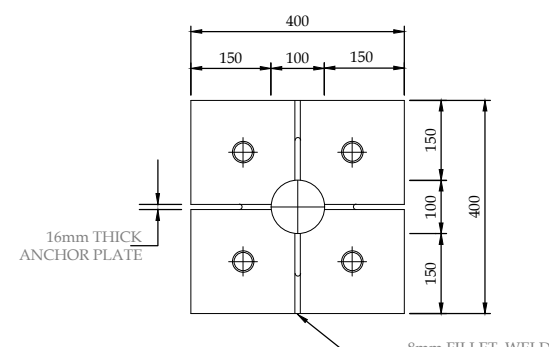
PLAN FOR DETAIL A



PLAN FOR DETAIL B



PLAN FOR DETAIL C



PLAN FOR DETAIL D

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS INDICATED OTHERWISE.
2. SIGNS PANELS SHALL BE MADE OF ALUMINUM ALLOY OR POLYVINYL PLATES OF 3MM THICKNESS AS PER DECISION THE ENGINEER.
3. HIGH INTENSITY GRADE REFLECTIVE SHEETING TO BE USED FOR TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
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6. WIDTH OF CAST IN SITU CONCRETE FOUNDATION FOR LARGE SIGNS (TYPE-IV) SHALL BE SAME AS THAT OF SIGN FACE, WHERE AS ITS BREADTH AND DEPTH SHALL BE 1000mm.
7. BLACK STEEL MS PIPE SHALL BE PAINTED WITH PRIMER (ANTI CORROSIVE) AND TWO COATS OF GRAY COLOR.
8. A SIGN POST SHALL NOT BE MOUNTED IN THE MIDDLE OF SIDE WALK.
9. THE CONTRACTOR SHALL SUBMIT THE SHOP DRAWING OF TRAFFIC SIGNS WITH MOUNTING AND FASTENING DETAILS FOR THE ENGINEER'S APPROVAL.

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NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
ROADS NETWORK
SIGN POST FOUNDATION DETAILS

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION		DRAWN	DESIGNED	APPROVED
22-12-2021	TENDER DRAWINGS		TAHIR	ENGR. SHEHROZE	ENGR. ARSLAN

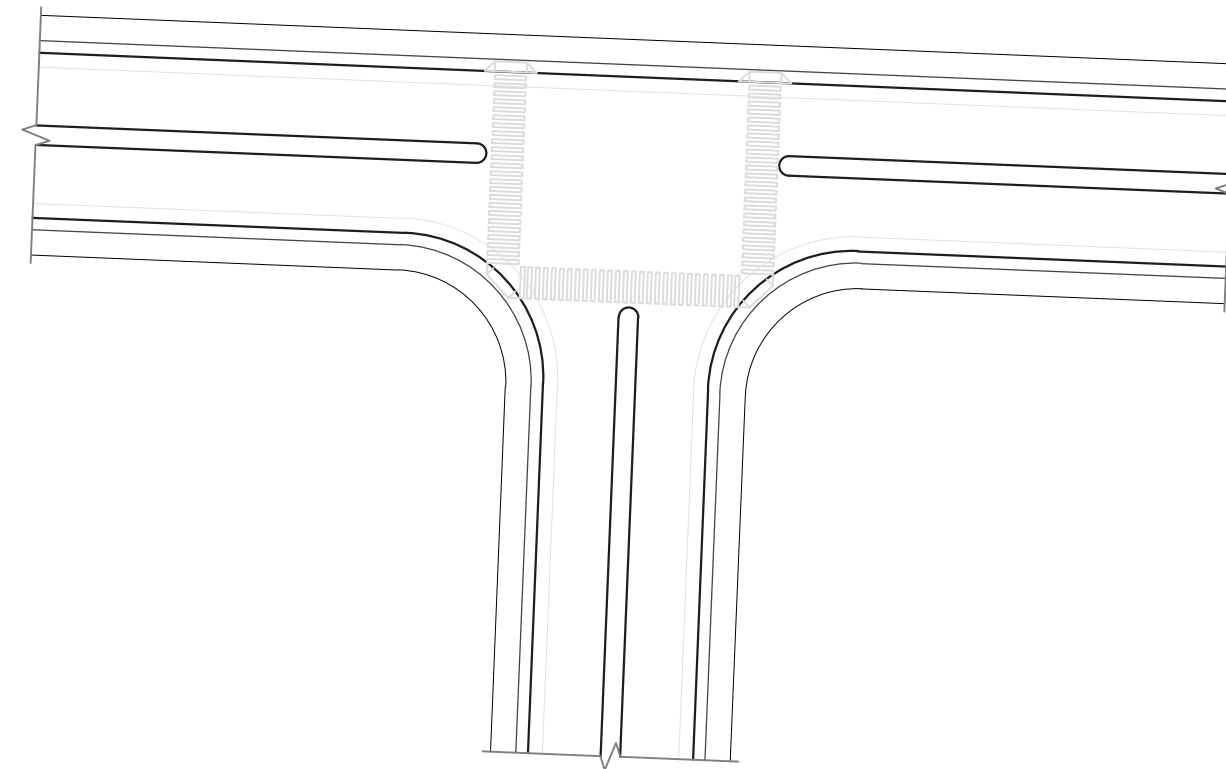
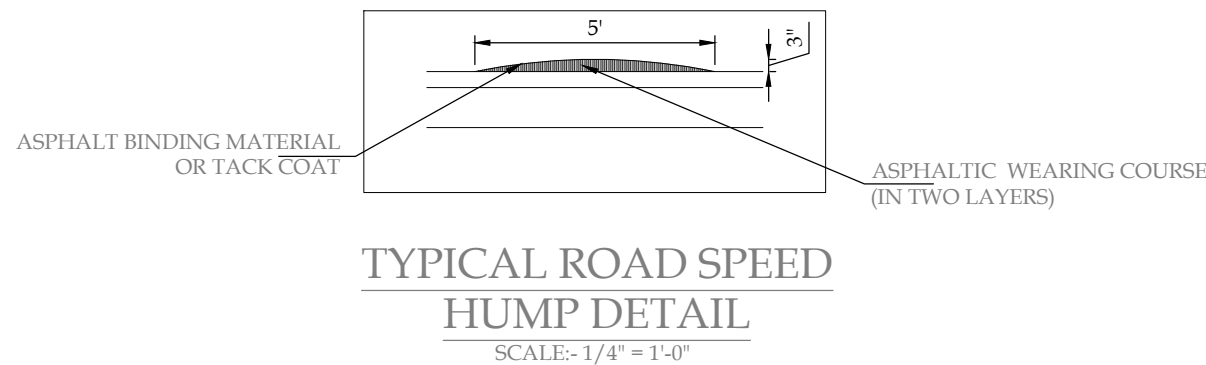
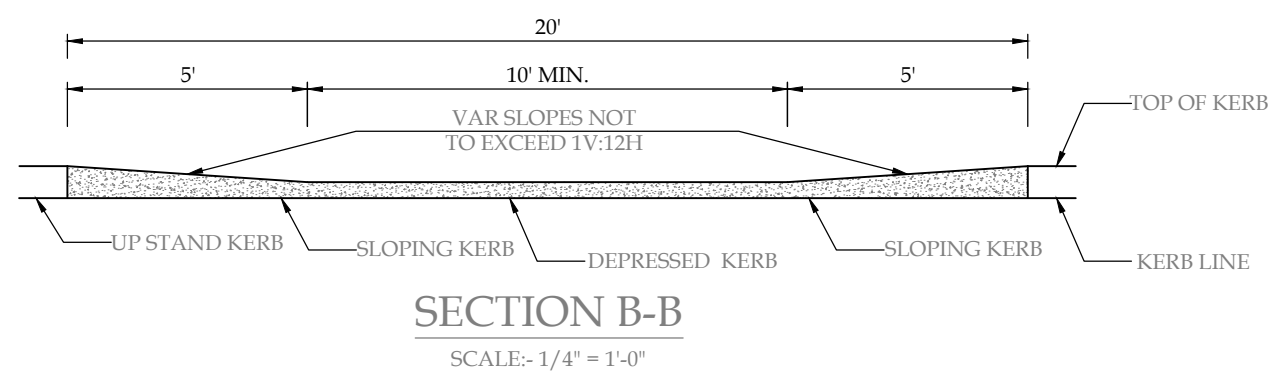
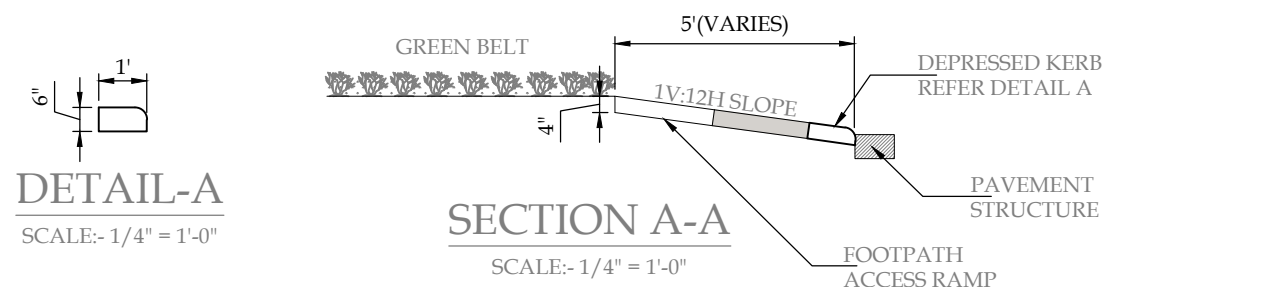
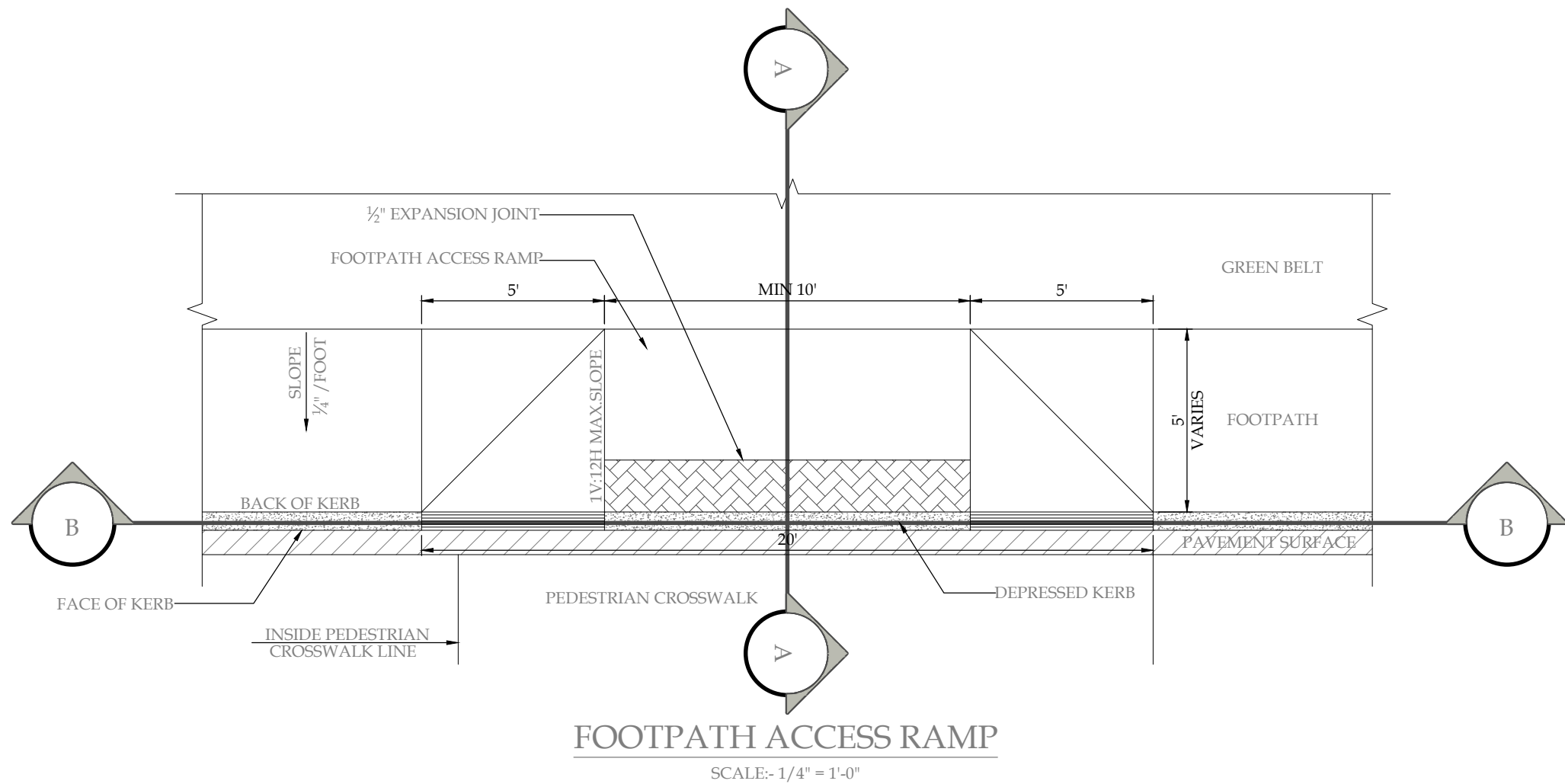
DRAWING N°:
NFIP-R-STD-5009

SHEET
2 OF 2

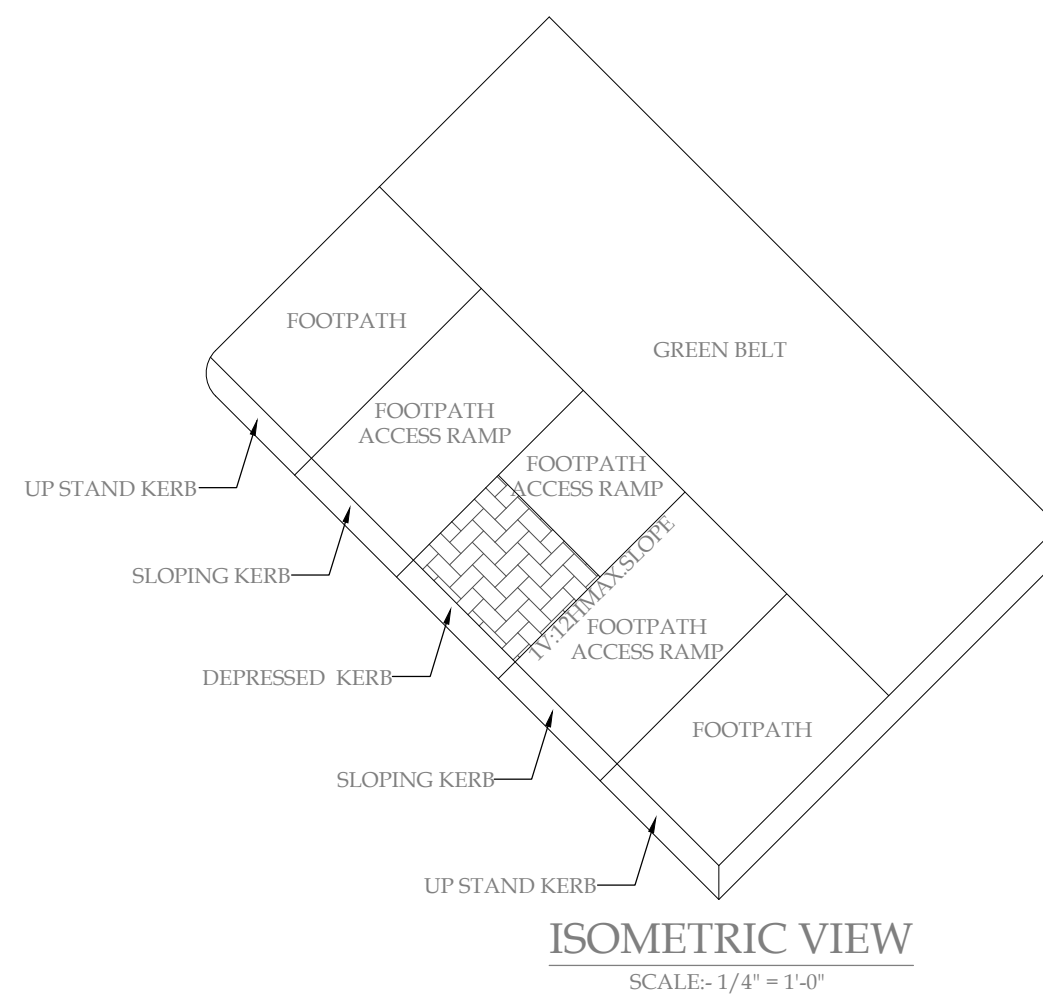
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CLIENT:
 **PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)**
2nd FLOOR, PIDC HOUSE DR. ZIAUDDIN ROAD, KARACHI,
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TYPICAL LOCATION OF
FOOTPATH ACCESS RAMP
SCALE:- 1/4" = 1'-0"



- NOTES**
- ALL DIMENSIONS ARE IN FEET / INCHS UNLESS INDICATED OTHERWISE.
 - FOOTPATH ACCESS RAMPS FOR THE PHYSICALLY HANDICAPPED SHALL BE PROVIDED AT ALL INTERSECTIONS WHERE BOTH CURB AND FOOTPATHS ARE PROVIDED AND AT THE OTHER POINTS OF PEDESTRIAN CROSSINGS.
 - DEPRESSED OR DROP CURB SHALL BE PROVIDED AT FOOTPATH ACCESS RAMPS.
 - FOOTPATH ACCESS RAMPS SHALL BE PROVIDED AT LOCATION AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER. FOOTPATH ACCESS RAMP SHALL BE CONSTRUCTED AS SHOWN IN THE DETAIL. HOWEVER, THE LOCATION MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER WHERE LIGHT POLES, MANHOLES, FIRE HYDRANTS, DROP INLETS, CHAMBERS, ETC. AFFECT PLACEMENT.
 - NO SLOPE ON THE FOOTPATH ACCESS RAMP SHALL EXCEED 8% (1V:12H) IN RELATIONSHIP TO THE GRADE OF THE STREET.
 - IN NO CASE SHALL THE WIDTH OF THE FOOTPATH ACCESS RAMP BE LESS THAN 4 FEET.
 - CONTRACTOR SHALL SUBMIT A SHOP DRAWING SHOWING LOCATION OF ALL FOOTPATH ACCESS RAMPS FOR APPROVAL OF THE ENGINEER PRIOR TO PROCEEDING WITH EXECUTION OF THESE RAMPS.
 - SPEED HUMS/RUMBLE STRIPS WILL BE PROVIDED NEAR AMENITIES SUCH AS MOSQUES, PLAYGROUNDS, SCHOOLS, HOSPITALS, ETC. FOR TRAFFIC CALMING AS PER DECISION OF THE ENGINEER.

PROJECT:
PAKISTAN INDUSTRIAL DEVELOPMENT CORPORATION (PIDC)
INFRASTRUCTURE DEVELOPMENT & ALLIED WORKS AT
NAUSHAHRO FEROZE INDUSTRIAL PARK, NAUSHAHRO FEROZE
ROAD NETWORK, BOUNDARY WALL & GATE, WATER SUPPLY &
SEWERAGE NETWORK AND ELECTRICAL INFRASTRUCTURE

DRAWING TITLE:
**ROADS NETWORK
FOOTPATH ACCESS RAMPS
AND SPEED HUMP DETAILS**

ORIGINAL :		DATE :		SCALE :	
A2		JULY, 2021			
DATE	DESCRIPTION	DRAWN		DESIGNED	APPROVED
22-12-2021	TENDER DRAWINGS	TAHR		ENGR SHEHZOZE	ENGR ARSLAN

DRAWING N°:
NFIP-R-STD-5010

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1 OF 1

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WATER COURSE