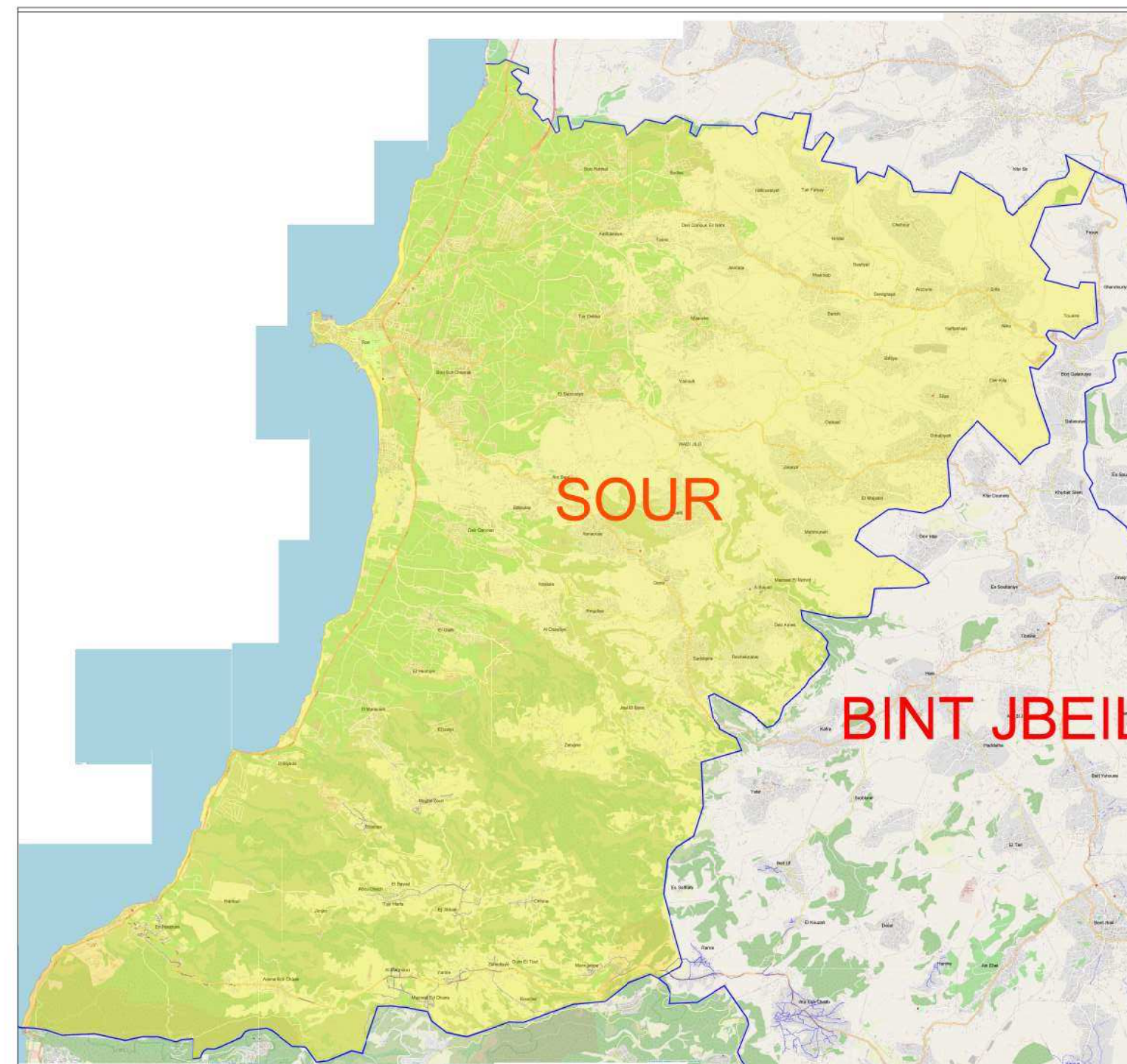




REPUBLIC OF LEBANON
COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION

Damaged Roads Clearing And Restoration In South Lebanon
Sour Caza



VOLUME 4 : TENDER DRAWINGS
AUGUST 2026
REVISION 03



DAR AL HANDASAH NAZIH TALEB & PARTNERS
دار الهندسة نزيه طالب وشركاه

GENERAL

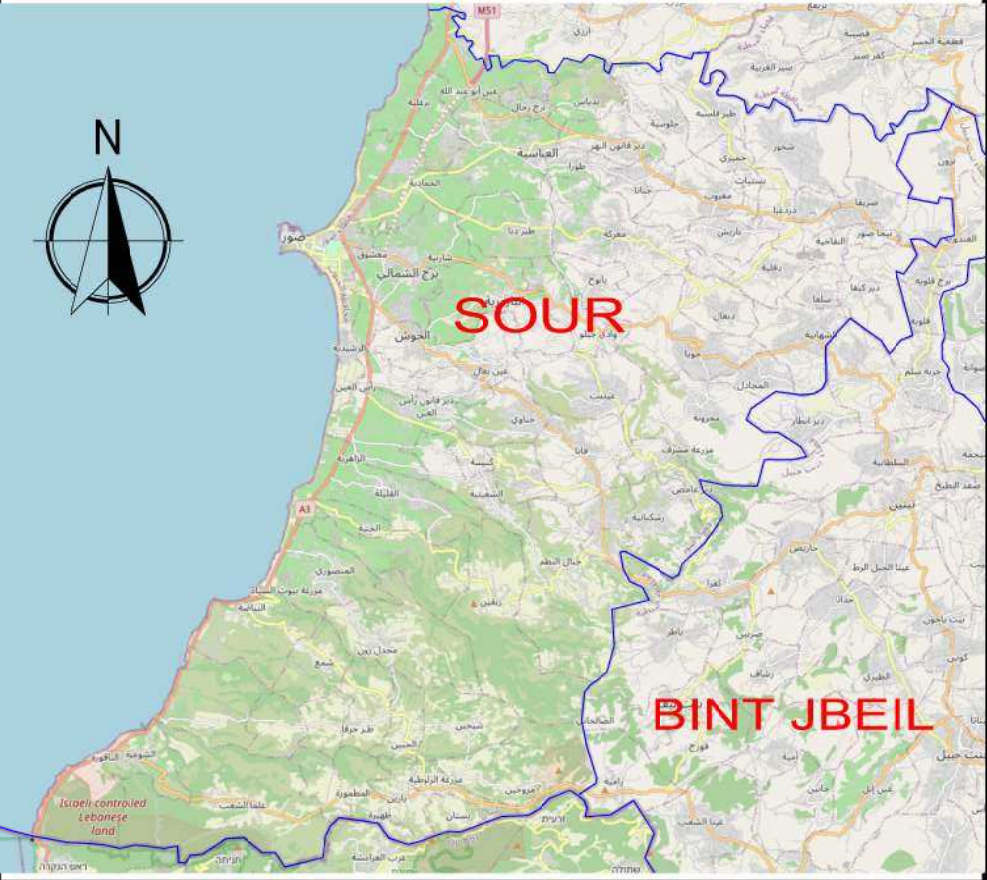


DAR AL HANDASAH NAZIH TALEB & PARTNERS
دار الهندسة نزيه طالب وشركاه
Founded 1956

Damaged Roads Clearing And Restoration In South Lebanon
(Sour Caza)

Damaged Roads Clearing And Restoration In South Lebanon (Sour Caza) LIST OF DRAWINGS		
	DRAWING No.	DRAWING TITLE
	<u>GENERAL</u>	
	L2502D-LOT 1-001	LIST OF DRAWINGS
	L2502D-LOT 1-002	GENERAL NOTES
	L2502D-LOT 1-003	KEY PLAN DRAWING
	<u>STANDARD DETAILS</u>	
	<u>PAVEMENT REPAIR DETAILS</u>	
	L2502D-DET-TS-001	TYPICAL CROSS SECTION & DETAIL FOR ROAD STABILIZATION
	<u>TRAFFIC SAFETY & CONTROL DEVICES DETAILS</u>	
	L2502D-DET-SA-001	TEMPORARY TRAFFIC SIGNING & SAFETY DEVICES DETAILS (SHEET 1 OF 5)
	L2502D-DET-SA-002	TEMPORARY TRAFFIC SIGNING & SAFETY DEVICES DETAILS (SHEET 2 OF 5)
	L2502D-DET-SA-003	TEMPORARY TRAFFIC SIGNING & SAFETY DEVICES DETAILS (SHEET 3 OF 5)
	L2502D-DET-SA-004	TEMPORARY TRAFFIC SIGNING & SAFETY DEVICES DETAILS (SHEET 4 OF 5)
	L2502D-DET-SA-005	TEMPORARY TRAFFIC SIGNING & SAFETY DEVICES DETAILS (SHEET 5 OF 5)
	L2502D-DET-SA-006	STEEL GUARDRAIL DETAILS (SHEET 1 OF 3)
	L2502D-DET-SA-007	STEEL GUARDRAIL DETAILS (SHEET 2 OF 3)
	L2502D-DET-SA-008	STEEL GUARDRAIL DETAILS (SHEET 3 OF 3)
	</	

KEY PLAN



NOTES

LEGEND

No	DATE	REVISION	DESCRIPTION	CHECKED	P.MANAGER
3	22-07-2026	REV. 3	UPDATED SCOPE OF WORKS PLANS	E.I.	N.H.
2	27-01-2026	REV. 2	PAVEMENT LAYER MODIFICATIONS	E.I.	N.H.
1	30-12-2025	REV. 1	BASED ON CDR REVIEW	E.I.	N.H.

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Damaged Roads Clearing And Restoration In South Lebanon
(Sour Caza)

STAGE : TENDER DRAWINGS

DATE

August-2026

SCALE

N.T.S.

DRAWING No.

L2502D-LOT 1-001

REV

03

1.SCOPE OF WORKS

The required restoration works included in the scope of works can be categorized as follows:

- Type1 - Roads totally demolished and closed: require debris removal, reopening, and road Restoration.
- Type 2 - Roads demolished and partially closed: require removal of remaining debris and road Restoration.
- Type 3 - Roads cleared and reopened: require road Restoration only.

- The Road Restoration Works consist mainly of the following:
- Pavement Excavation Works.
 - Reconstruction Of Pavement Structural Pavement Layers (Sub-base and base course).
 - Apply 5cm Of Bituminous Binder Course Layer.
 - Crossing drainage structures works.
 - Road safety works.

2.TRAFFIC CONTROL PLANS (TCPS)

The Contractor shall provide all Temporary Works and services and Contractor's Equipment and tools required for the efficient and safe execution of the Works

In addition the Contractor shall submit for approval and prior execution all necessary traffic control plans (TCPs) for each activity.

The temporary safety devices shall include but not limited to:

- Barricade with flashers type k5c.
- Warning Rectangular sign type KCI
- Warning Sign, size greater than or equal to one square meter including posts, supports, foundations and all related works, type K2.
- "Plastic Barrier, 145 cm long and 40 cm wide, type K16.
- Cones and flash lights

3.IMPLEMENTATION OF ESMP AND OHS MANAGEMENT PLAN,

The Contractor shall carefully review the Environmental and Social Management Plan (ESMP Checklist) and the Occupational Health and Safety (OHS) Management Plan requirements and shall take all necessary measures to ensure their full and effective implementation during the construction period.

4.SITE SURVEY

The locations of the roads shall be identified and specified by the Council for Development and Reconstruction (CDR), in coordination with the Ministry of Public Works and Transport (MoPWT), the concerned municipalities, and other relevant project stakeholders, in accordance with the mechanism and security protocol established by the Lebanese Army, as detailed in the Environmental and Social Management Plan (ESMP). Prior to the commencement of the Works, the Contractor shall carry out his own site survey in coordination with local authorities to ascertain the exact extents and types of the required restoration works. In addition, the Contractor shall prepare the necessary shop drawings showing the precise locations and types of restoration works, all in accordance with the Contract requirements. Such shop drawings shall be submitted to the Engineer for approval within thirty (30) days from the date of the Notice of Commencement of the relevant activity, and no Works shall commence until such approval is obtained.

5.EXECUTION AND SHOP DRAWINGS

Prior execution the Contractors shall submit for Engineer approval all execution and shop drawings related to works under this contract. showing accurate locations and types of proposed works, and all relevant details, to the Engineer for approval. Construction of any works shall not commence prior to the Engineer's approval of the relevant Construction Documents.



NOTES					

LEGEND					

NO.	DATE	REVISION	DESCRIPTION	CREATED	MANAGER
3	22-07-2026	REV. 3	UPDATED SCOPE OF WORKS PLANS	E.I.	N.H.
2	27-01-2026	REV. 2	PAVEMENT LAYER MODIFICATIONS	E.I.	N.H.
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Damaged Roads Clearing And Restoration In South Lebanon (Sour Caza)

STAGE : TENDER DRAWINGS

DATEAugust-2026

SCALEN.T.S.

GENERAL NOTES

DRAWING NO.L2502D-LOT 1-002

REV03



KEY PLAN



SOUR

BINT JBEIL

NOTES

1-The locations of the roads shall be identified and specified by the Council for Development and Reconstruction (CDR), in coordination with the Ministry of Public Works and Transport (MoPWT) the concerned municipalities, and other relevant project stakeholders, in accordance with the mechanism and security protocol established by the Lebanese Army, as detailed in the Environmental and Social Management Plan (ESMP). Prior to the commencement of the Works, the Contractor shall carry out his own site survey in coordination with local authorities to ascertain the exact extents and types of the required restoration works. In addition, the Contractor shall prepare the necessary shop drawings showing the precise locations and types of restoration works, all in accordance with the Contract requirements. Such shop drawings shall be submitted to the Engineer for approval within thirty (30) days from the date of the Notice of Commencement of the relevant activity, and no Works shall commence until such approval is obtained.

LEGEND

AREAS UNDER SCOPE OF WORKS

NO	DATE	REVISION	DESCRIPTION	CHECKED	P-MANAGER
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دار الهندسة نزيه طالب وشركاؤه

Damaged Roads Clearing And Restoration In South Lebanon (Sour Caza)

KEY PLAN DRAWING

STAGE : TENDER DRAWINGS

DATE August-2026

SCALE N.T.S.

L2502D-LOT 1-003 03

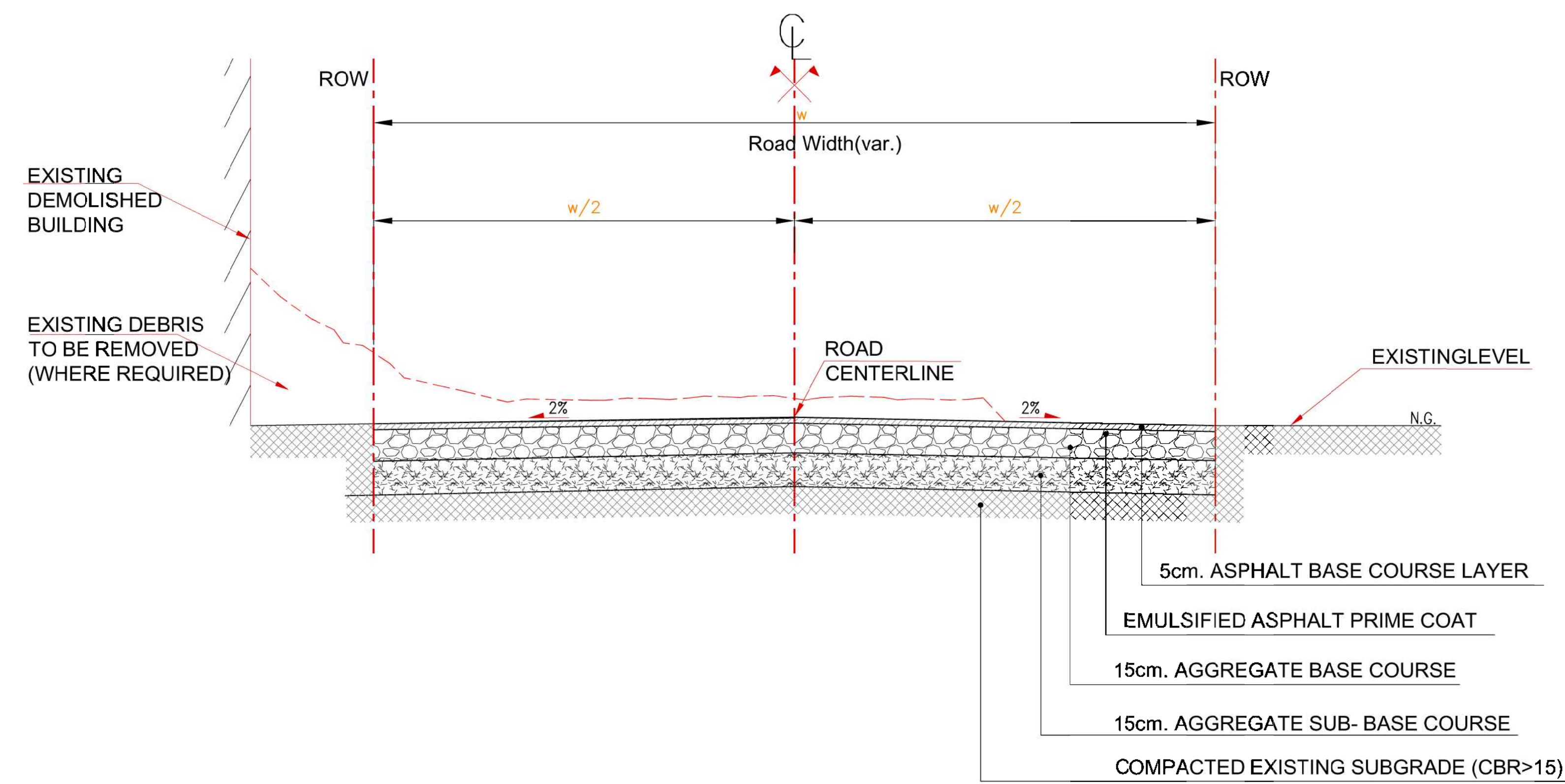
03

TYPICAL DETAILS

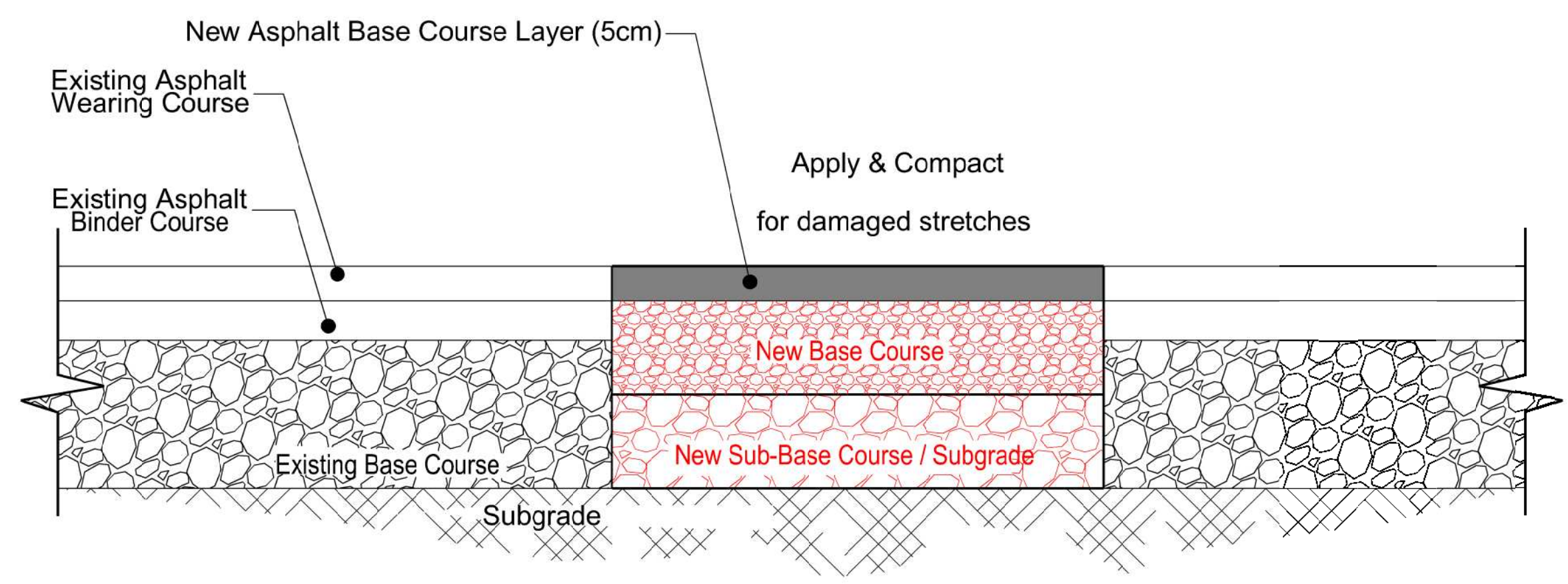


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Damaged Roads Clearing And Restoration In South Lebanon
(Sour Caza)



RESTORED ROAD-TYPICAL CROSS SECTION



RESTORED ROAD-LONGITUDINAL SECTION

Construction Methodology:

Step 1: Reopen Roads

Reopen the partially or fully closed roads by removing debris and clearing the roadway. Carry out clearing works where required to restore basic accessibility.

Step 2: Detailed Inspection

Conduct a thorough inspection of the damaged roads, including all necessary on-site laboratory tests, to determine:

- The exact location of the damaged pavement layers.
- The extent of required road reconstruction through the Restoration process, as detailed in the subsequent steps.

Step 3: Reconstruction of Gravel Pavement Layers

For roads requiring reconstruction, carry out the following:

- Excavation:** Excavate up to 30 cm depth from the existing road level / natural ground level (NGL), removing all damaged pavement layers and subgrade soils. Dispose of the excavated material at an approved dump site.
- Subgrade Preparation:** Inspect the top surface of the subgrade layer and conduct necessary tests to identify any loose material. Remove and replace unsuitable material with suitable borrow material having a CBR > 25.
- Compaction:** Mechanically compact the top layer of the subgrade as specified in the technical specifications.
- Sub-Base & Base Course :** Supply and compact a 15 cm of Sub-Base & 15cm of Base course Layer in accordance with the technical specifications.

Step 4: Roadway Finishing

- Shape the top surface of base course layer to the recommended crown, typically a 2% cross slope on each side, and apply prime coat
- Apply 5cm of asphalt base course layer to enhance durability and extend the service life of the roadway.

KEY PLAN

NOTES

- All dimensions are in centimeters unless otherwise indicated.
- Temporary signboards shall be conform with specifications
- The contractor shall prepare and submit the temporary detours drawings for approval by the engineer.

LEGEND

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Founded 1956

Damaged Roads Clearing And Restoration in South Lebanon (Sour Caza)

STANDARD DETAILS
TYPICAL CROSS SECTION
& DETAIL FOR ROAD RESTORATION

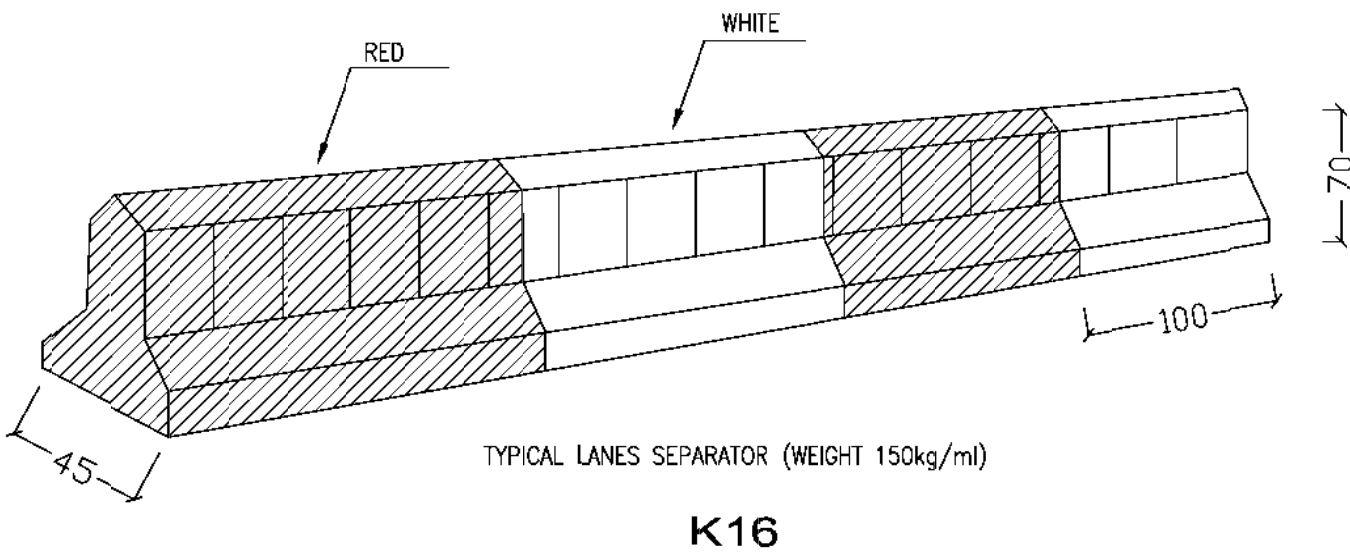
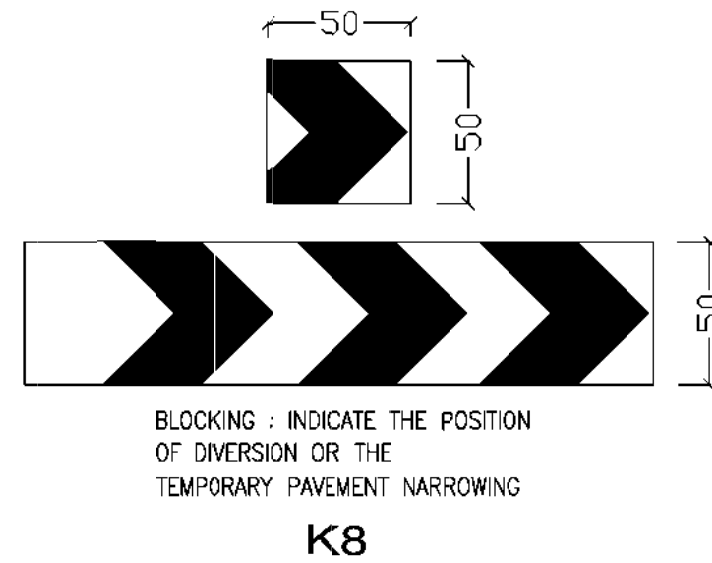
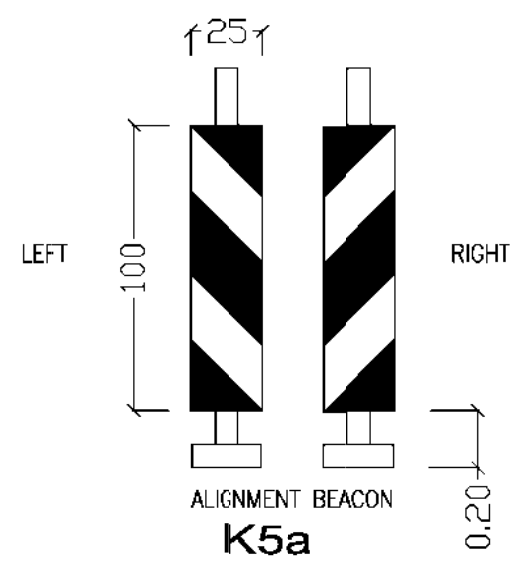
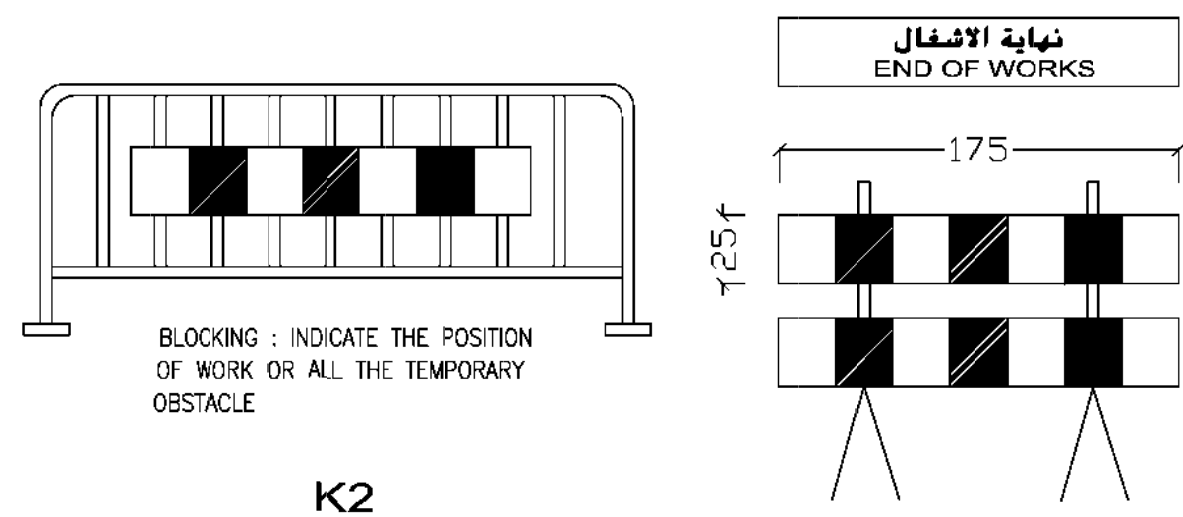
STAGE : TENDER DRAWINGS

DATE August-2026

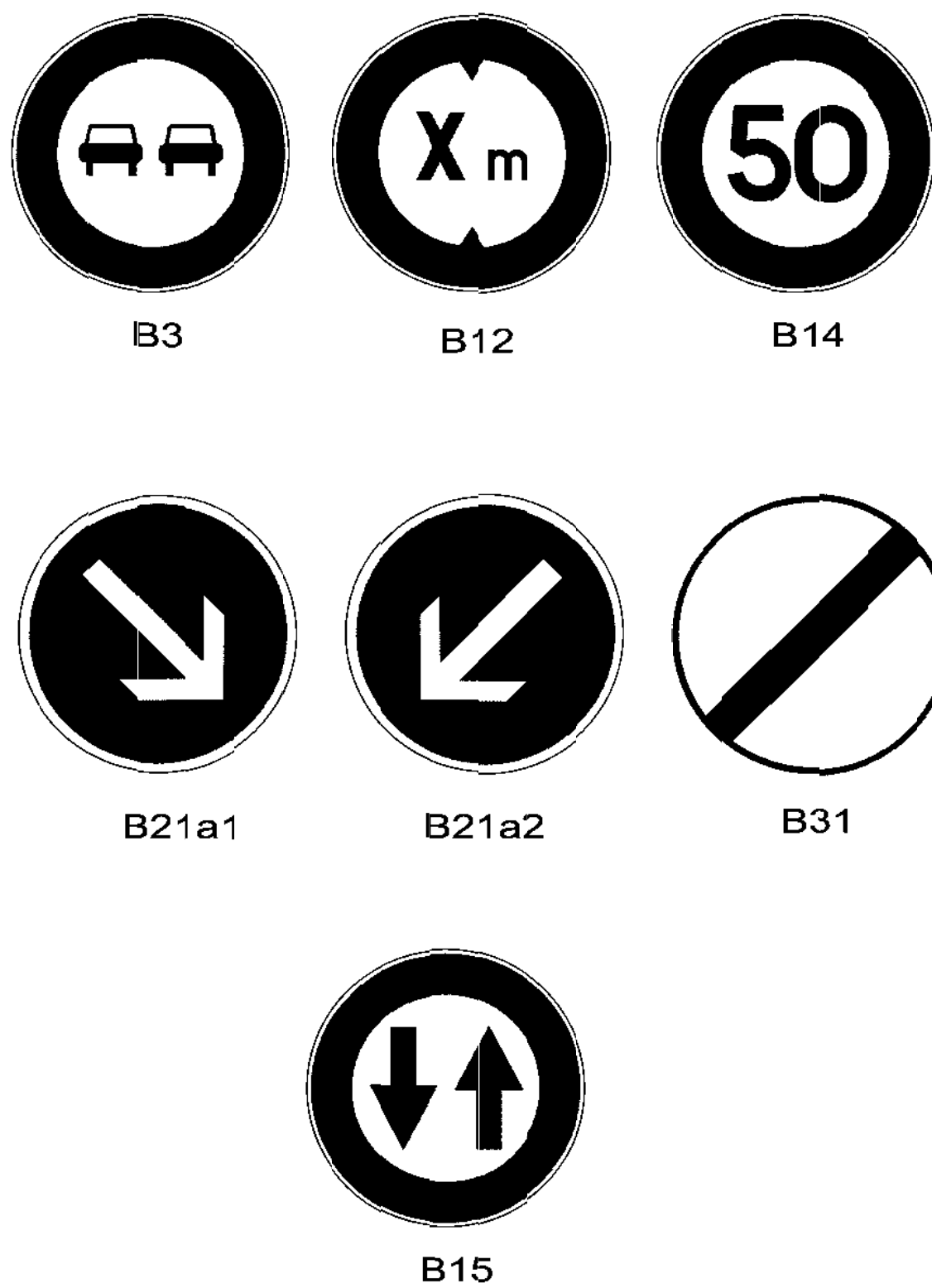
SCALE N.T.S.

DRAWING No. L2502D-DET-TS-001 REV 03

SUPPORT IS YELLOW AND SYMBOLS, LETTERS AND LISTEL ARE BLACK



DIAMETER 085m



KEY PLAN

NOTES

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LEGEND



No	DATE	REVISION	DESCRIPTION	CHECKED	P. MANAGER
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Damaged Roads Clearing And Restoration In South Lebanon (Sour Caza)

STAGE : TENDER DRAWINGS

DATE	August-2026
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STANDARD DETAILS
TEMPORARY TRAFFIC SIGNING
& SAFETY DEVICES DETAILS
(SHEET 1 OF 5)

SCALE	N.T.S.
DRAWING No.	REV
L2502D-DET-SA-001	03

WARNING SIGNS TYPE AK

SIDE 0.70 m



AK2



AK3



AK4



AK5

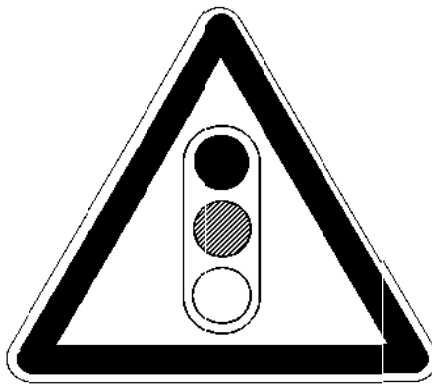


200 m

AK3+KM1



AK14



AK17



AK22



طريق
عاطل
↑ 4.5 Km ↑

AK14+KM9+KM2

EXAMPLE

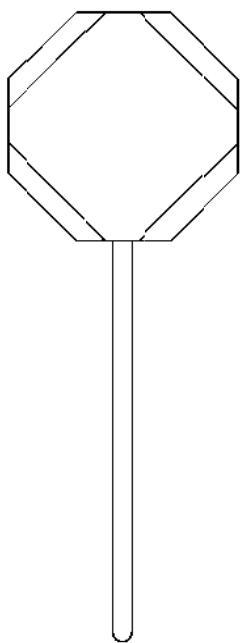
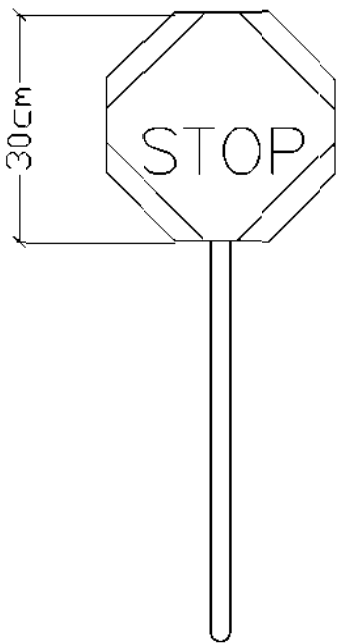


حفریات

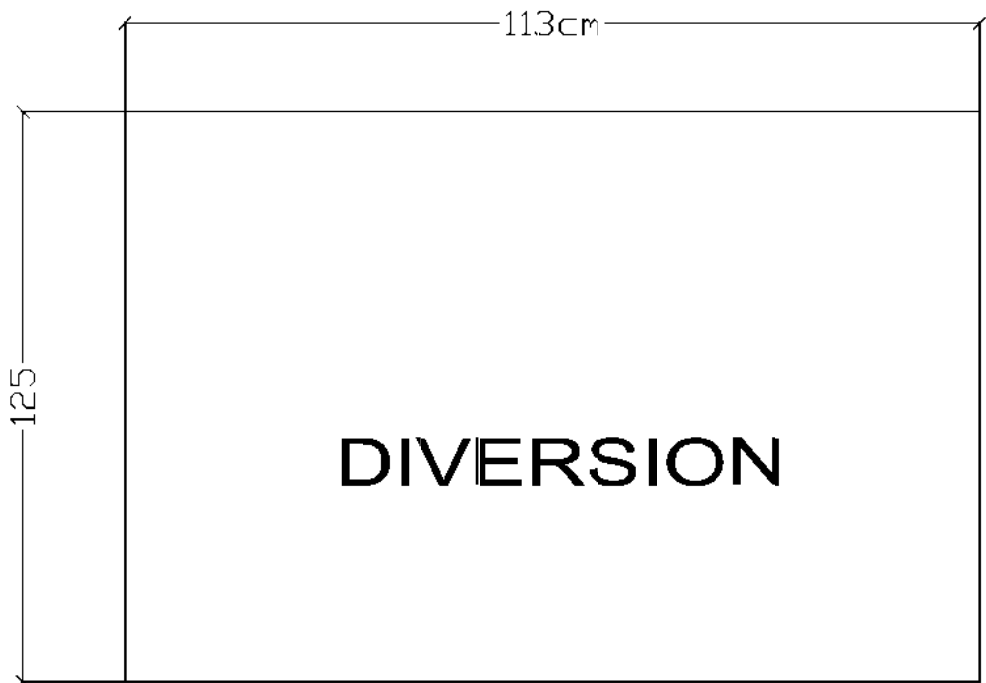
AK5+KM9

BY FLAGMEN

STANDARD SIGNS PADDLE



WARNING SIGNS TYPE KC

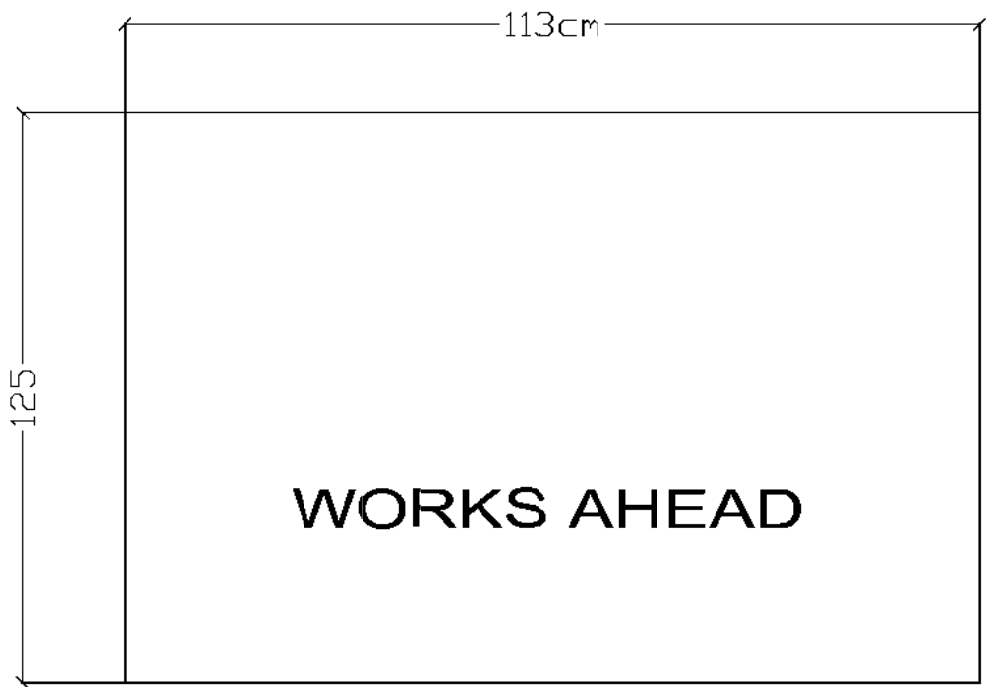


PROVIDE AT 500m ,200m AND 100m LEFT AND RIGHT

DIVERSION SIGN



DEAD END SIGN



PROVIDE AT 500m ,200m AND 100m LEFT AND RIGHT

WORKS AHEAD SIGN

KEY PLAN

NOTES

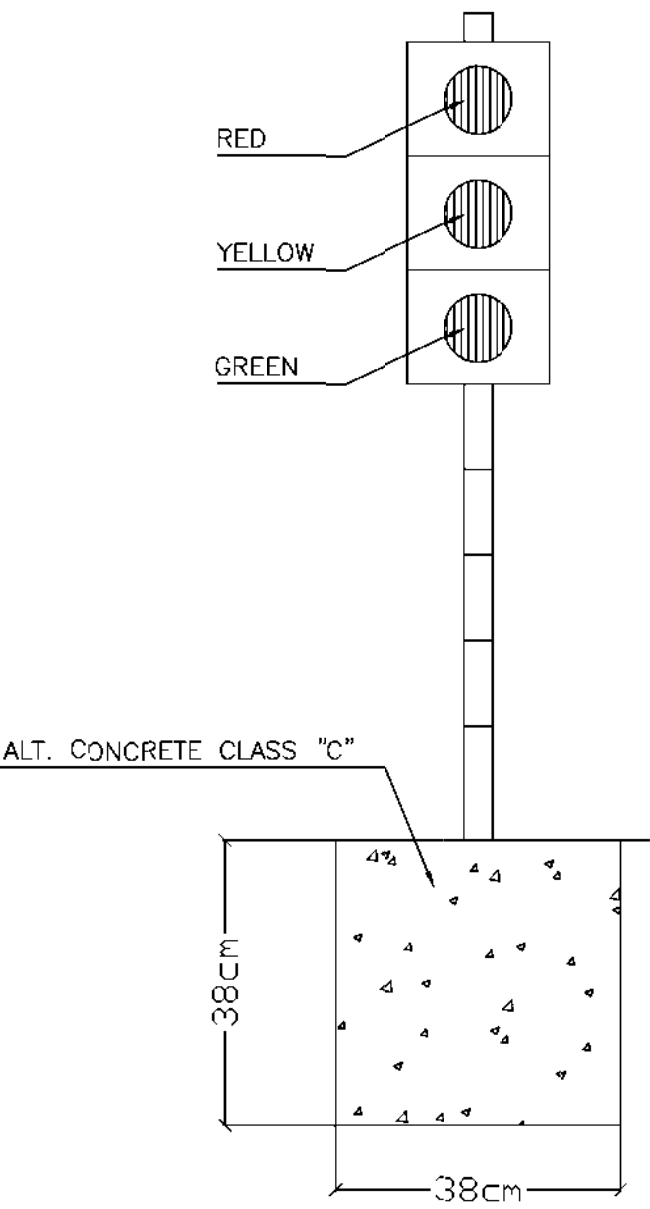
- All dimensions are in centimeters unless otherwise indicated.
- Temporary signboards shall be conform with specifications
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LEGEND

TEMPORARY LIGHTS

TEMPORARY TRAFFIC LIGHTS

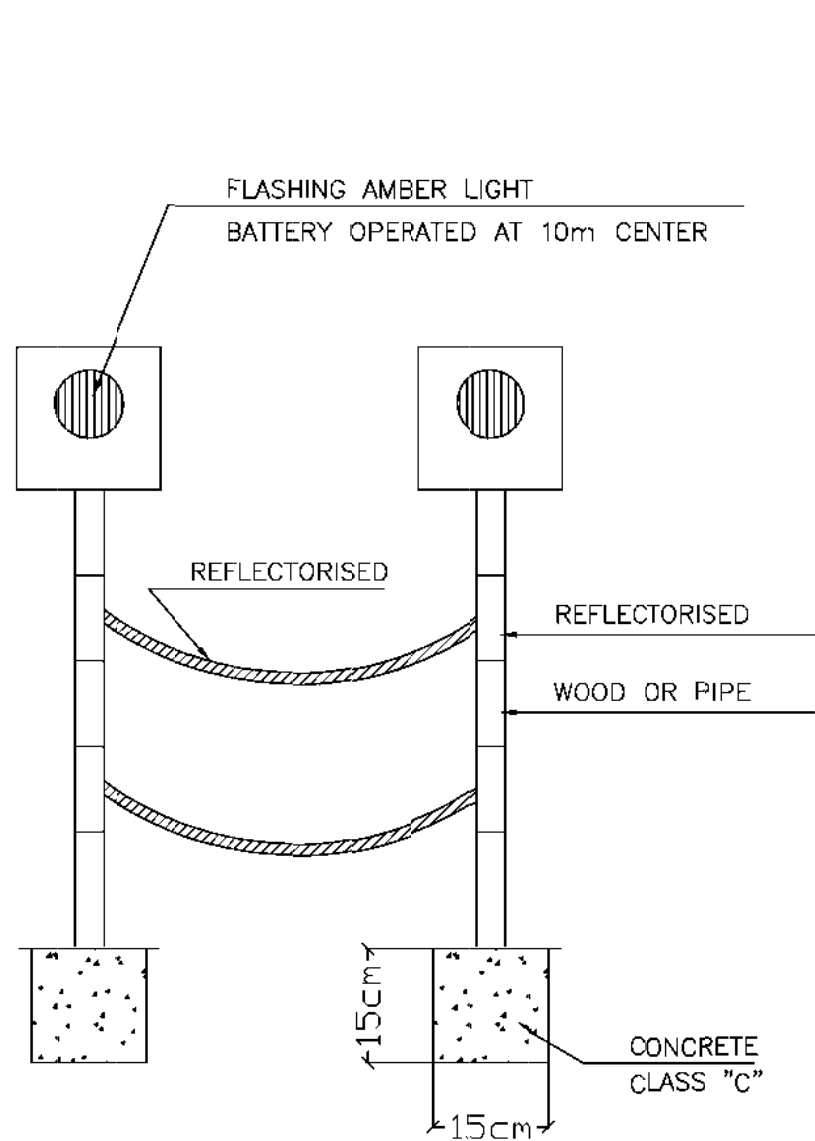
AT START AND AT END OF EVERY DIVERSION OR TEMPORARY WORK
BATTERY OPERATED OR BY GENERATOR



TEMPORARY DELINEATORS

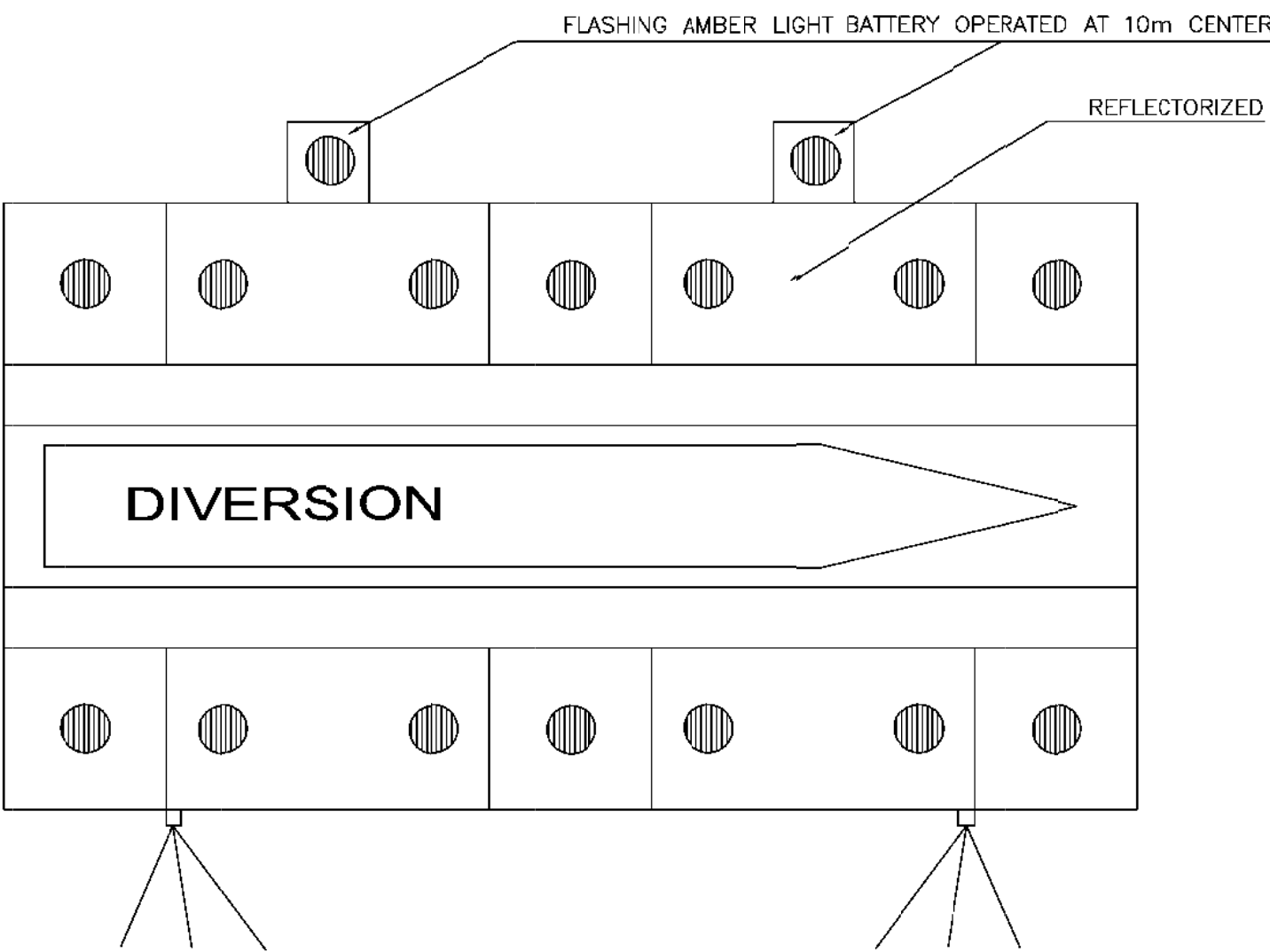
TO BE PLACED ALL THE LENGTH OF ANY DIVERSION OR WHEREVER WORK ADJACENT

TO EXISTING ROAD OCCURS



BARRICADE

AT DIVERSION AT EACH SIDE



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Damaged Roads Clearing And Restoration in South Lebanon (Sour Caza)

STANDARD DETAILS
TEMPORARY TRAFFIC SIGNING
& SAFETY DEVICES DETAILS
(SHEET 2 OF 5)

STAGE : TENDER DRAWINGS

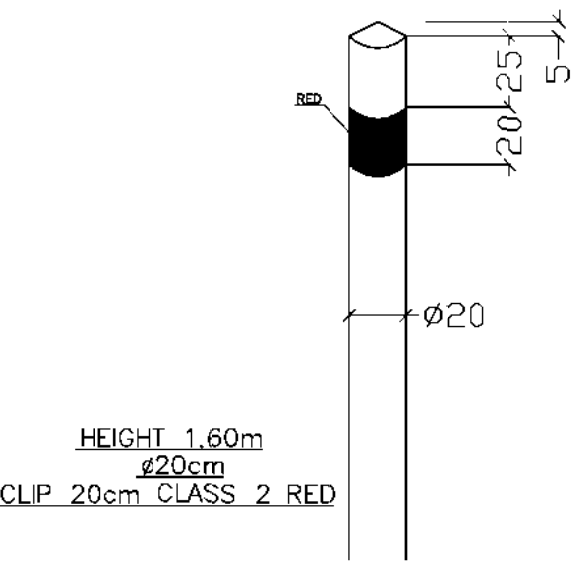
DATE August-2026

SCALE N.T.S.

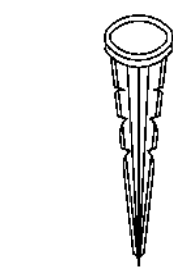
DRAWING No. L2502D-DET-SA-002 REV 03

MARKER POST

MARKER POST AT INTERSECTION J3
(WITH REFLECTORISING CLIP)



METALLIC PILE



HEIGHT 40cm
THE FLANGES PREVENT ALL
ROTATION IN SOIL.

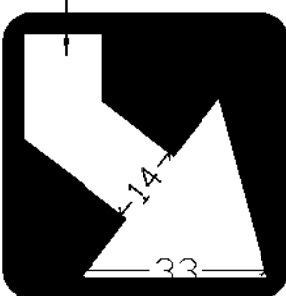
MARKER POST J1
(WITHOUT REFLECTORISING CLIP)



HEIGHT 1.60m
ø20cm

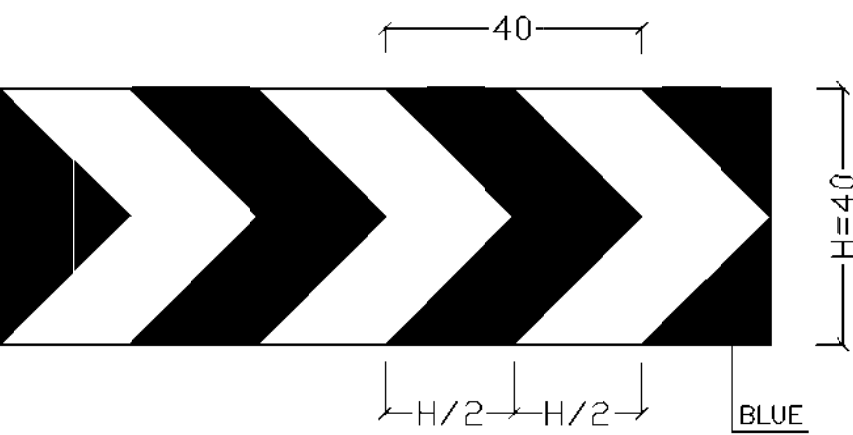
MARKER POST J5

WHITE (REFLECTORISING)

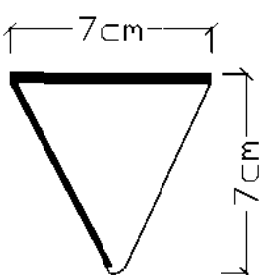
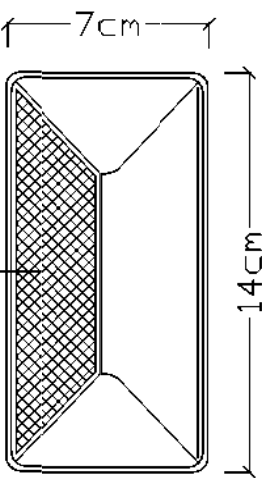
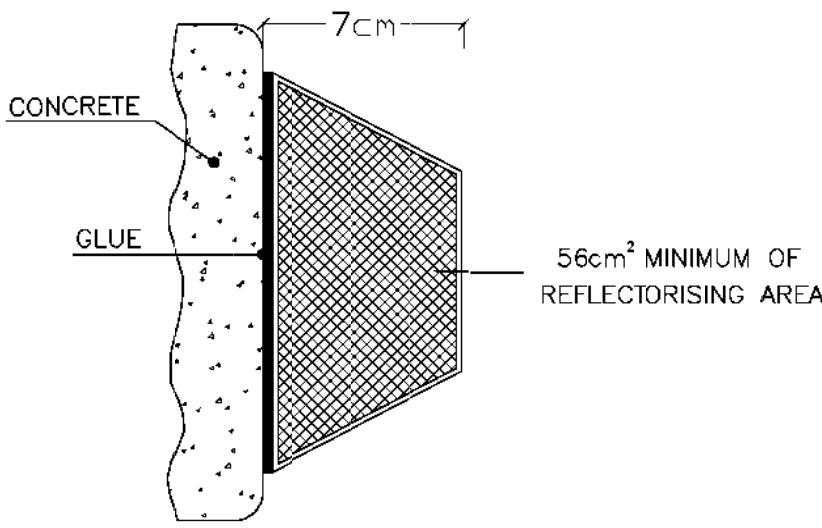


BLUE (NOT REFLECTORISING)

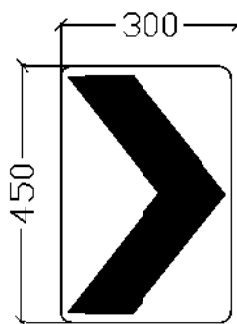
MARKER POST J4



1 - WAY RETROREFLECTIVE MARKER



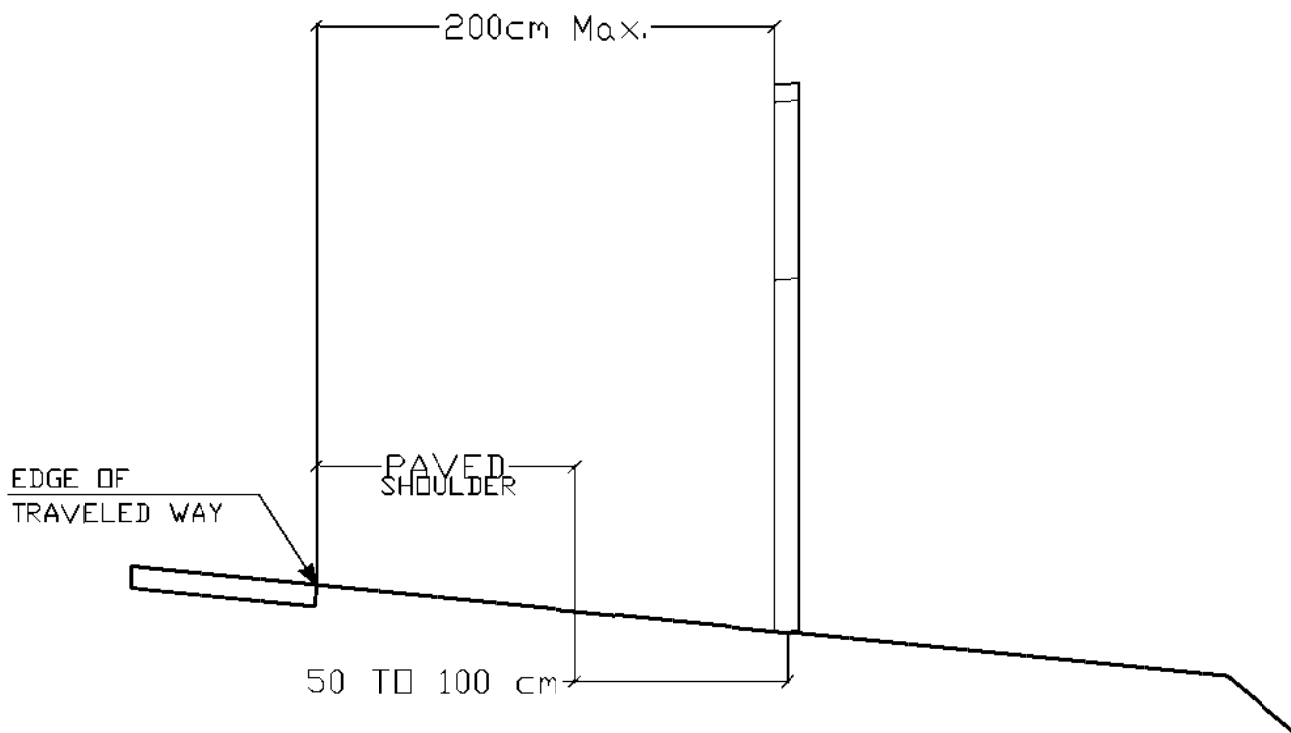
DELINEATORS



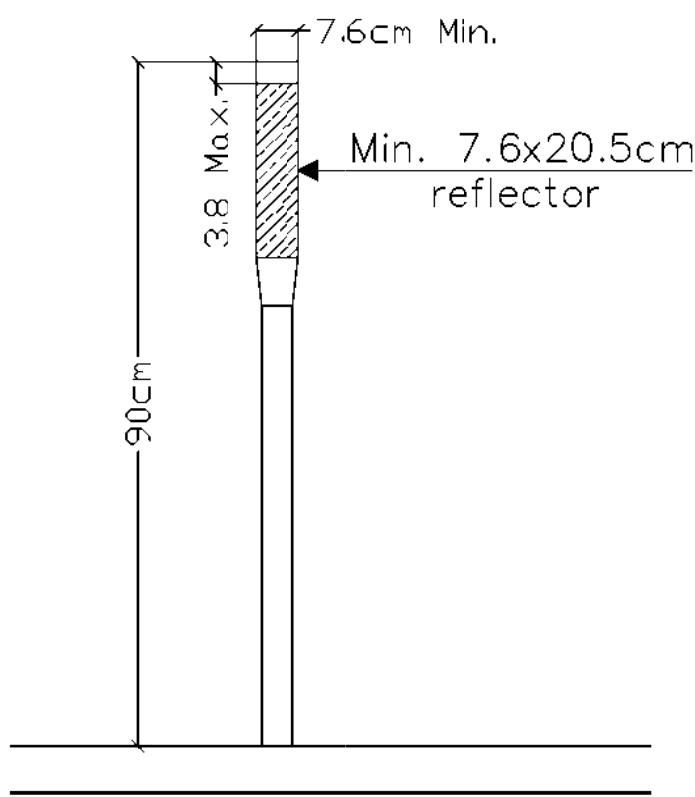
S: DELINEATOR SPACING
R: RADIUS OF BEND

R(m)	600	300	270	240	210	180	120	90	75	60	50	45	30	15
S(m)	50	28	26.5	23	21	19	17	14.5	13	11	10	9	7.5	6

DELINEATOR SPACING AT HORIZONTAL CURVES

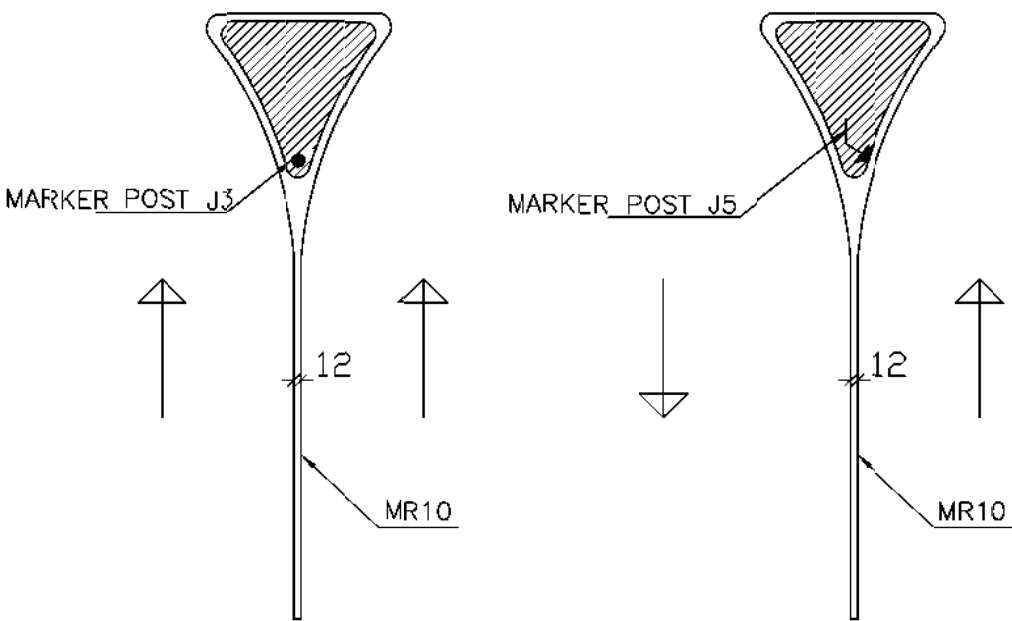


DELINEATOR POSITIONING

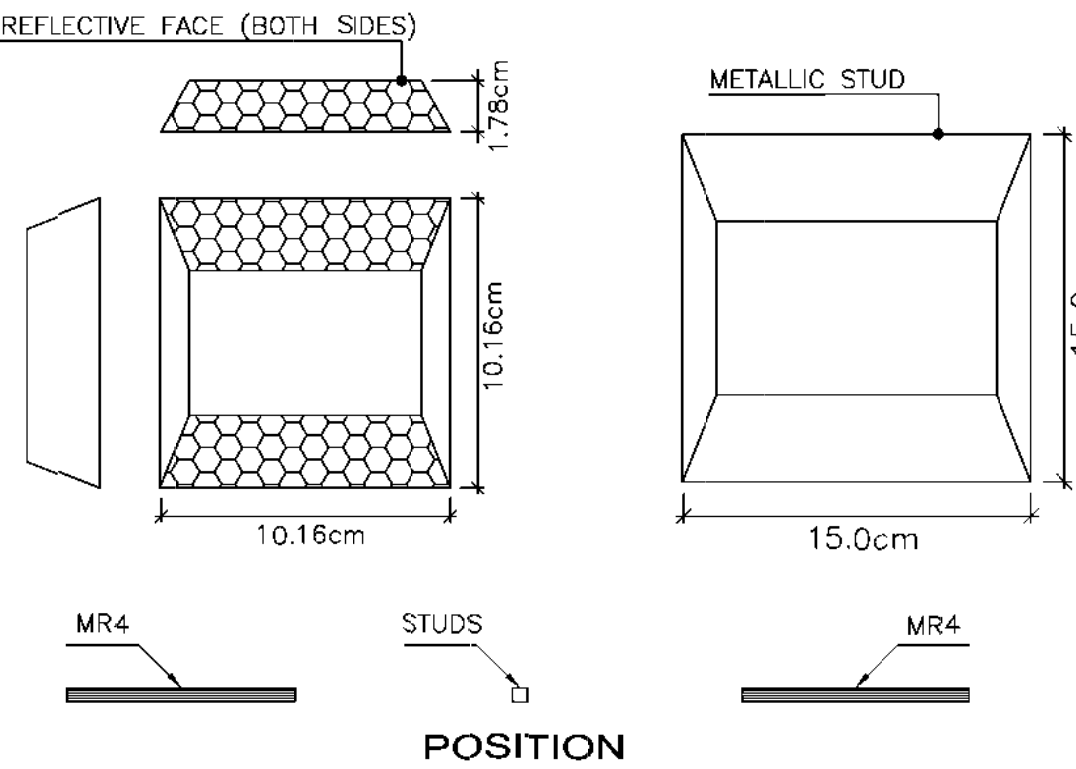


POST MOUNTED DELINEATOR

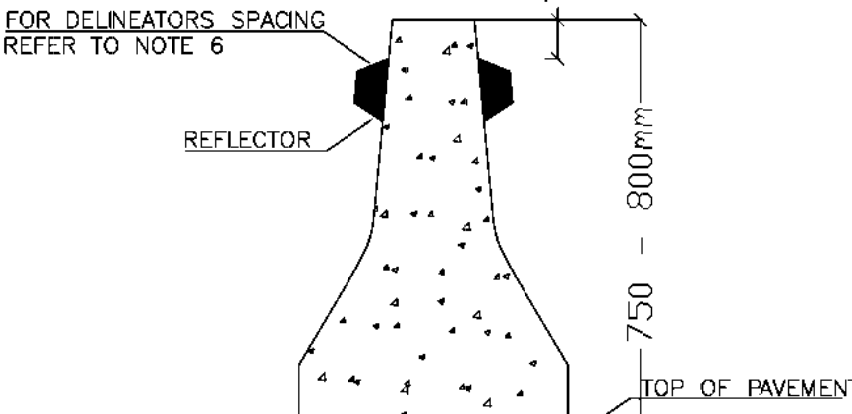
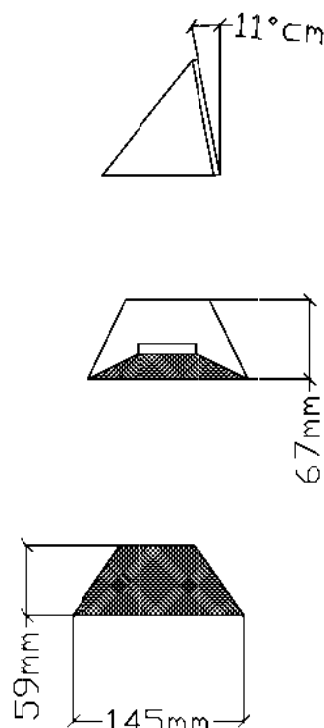
DIRECTIONAL ISLANDS



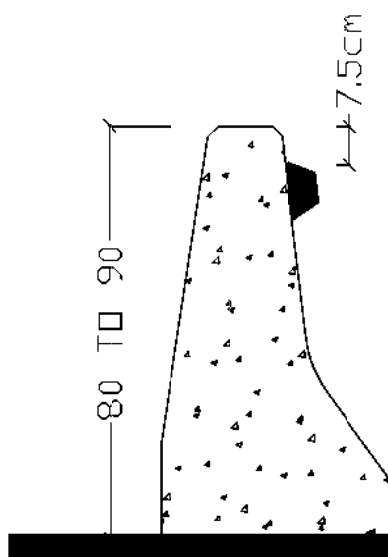
PAVEMENT STUDS



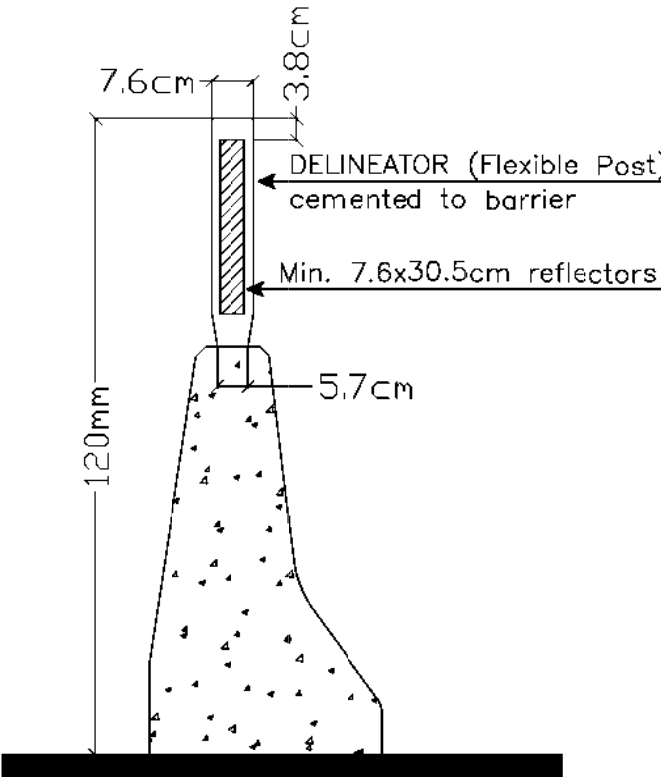
NEW JERSEY BARRIER REFLECTOR



MEDIAN BARRIER DELINEATION



EDGE BARRIER DELINEATION
(For barriers not located in median)



KEY PLAN

NOTES

- Unless otherwise mentioned, all dimension are in centimeters.
- All paint marking shall be thermoplastic type.

REPUBLIC OF LEBANON

COUNCIL FOR DEVELOPMENT
AND RECONSTRUCTION

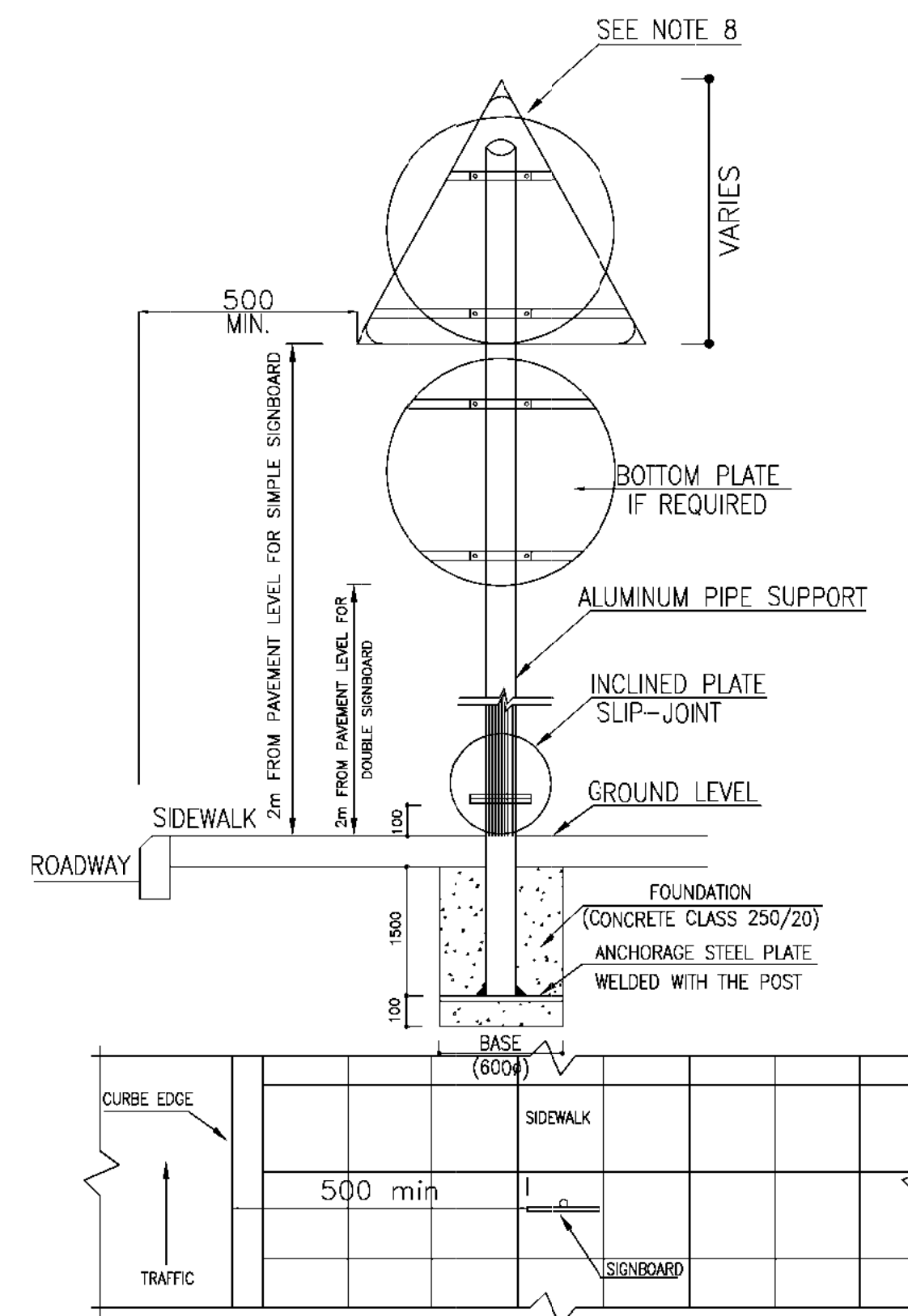


Damaged Roads Clearing And
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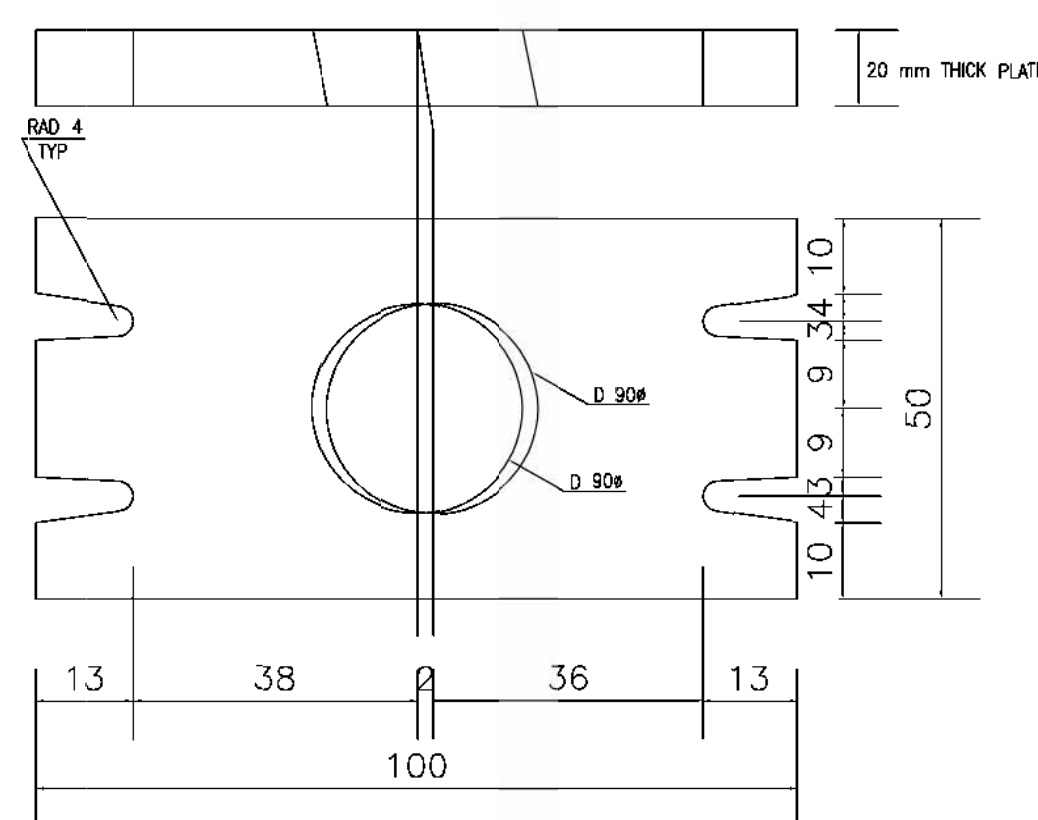
STANDARD DETAILS
TEMPORARY TRAFFIC SIGNING
& SAFETY DEVICES DETAILS
(SHEET 3 OF 5)

STAGE : TENDER DRAWINGS
DATE August-2026
SCALE N.T.S.
DRAWING No. L2502D-DET-SA-003
REV 03

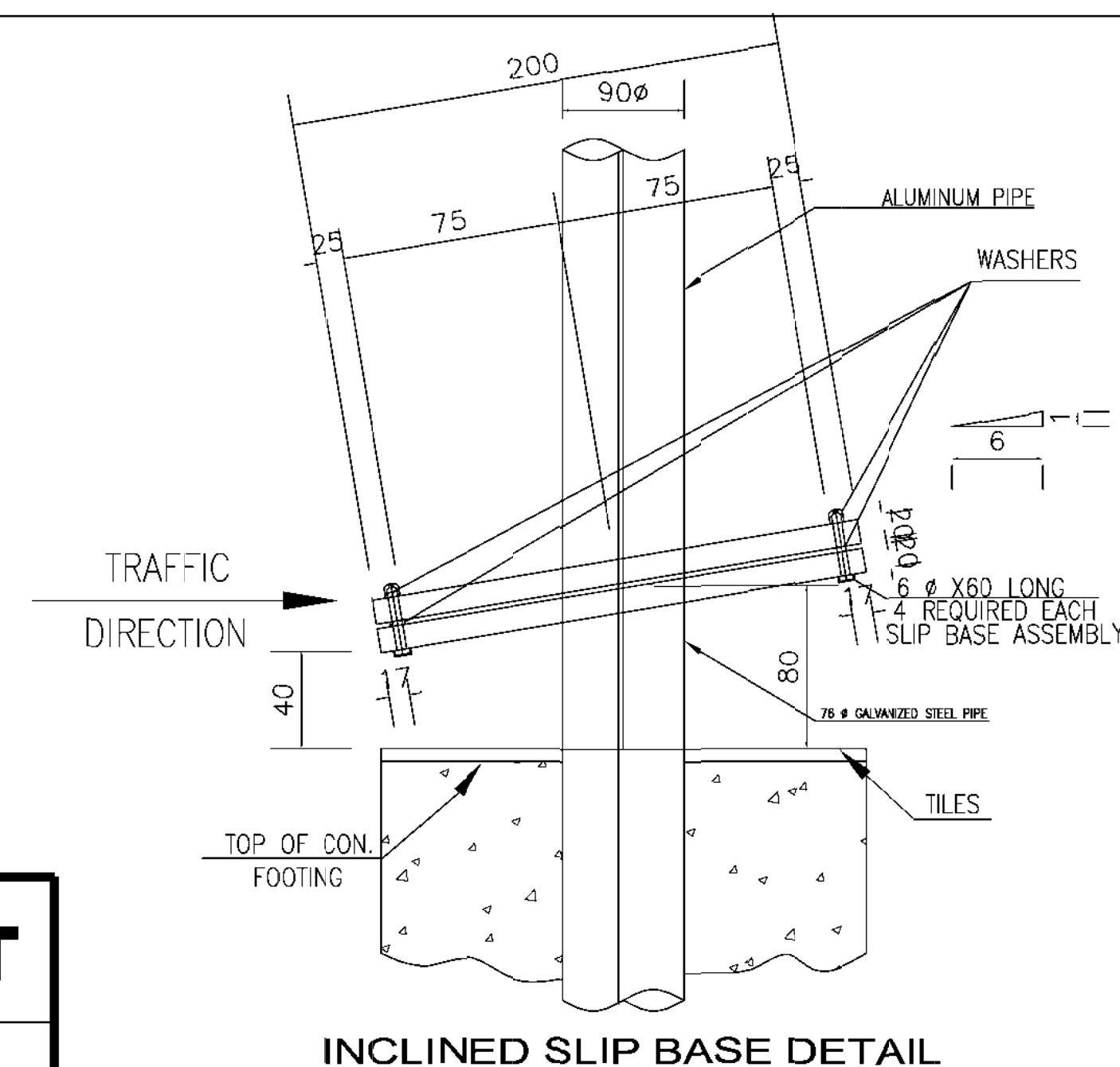
KEY PLAN



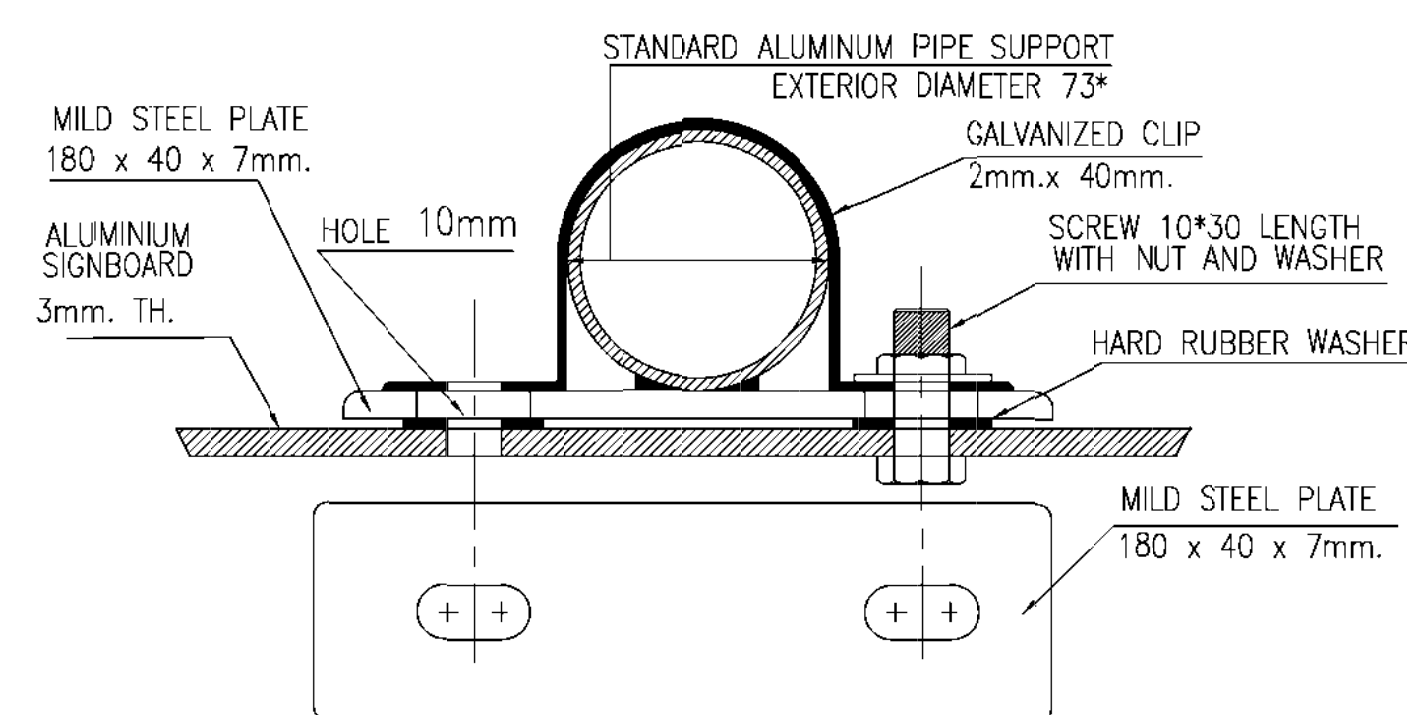
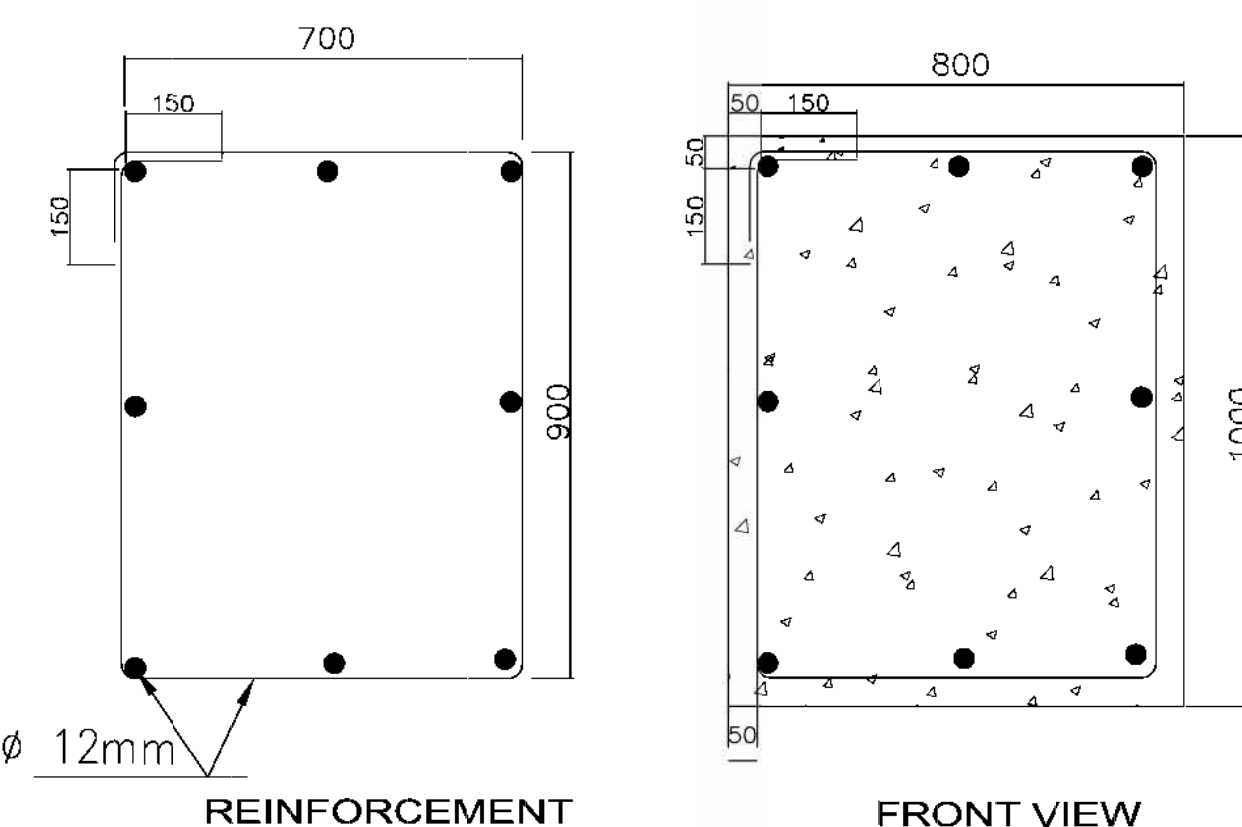
SLIP BASE DETAILS



FOOTING REINFORCEMENT



ASSEMBLING FOR FIXATION



NOTES

- 1- The Signboards Used Will Be In Conformity With European Codes
- 2- The Signboards Dimensions In (mm) Are:
 - Triangular
 - Circular
 - Square
 - Octogon
- 3- The White Surface For Signboards Is Reflectorising
- 4- It Is To Be Insured That The Soil Breaking Capacity Below The Foundation Is 100 KN/m^2 Or Higher.
- 5- Factor Of Safety Is To Be 1.50 Against Overturning.

700	(Side)
650	(Diameter)
500	(Side)
600	(Apothème)
- 6- Steel Reinforcement For Footing Shall Conform To ASTM A615, Grade 60 Or Equivalent.

No	DATE	REVISION	DESCRIPTION	CHECKED	P-MANAGER
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AND RECONSTRUCTION**



Damaged Roads Clearing And Restoration In South Lebanon (Sour Caza)

STANDARD DETAILS
TEMPORARY TRAFFIC SIGNING
& SAFETY DEVICES DETAILS
(SHEET 4 OF 5)

STAGE : TENDER DRAWINGS

DATE	August-2026
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SCALE	N.T.S.
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DRAWING No.	REV
L2502D-DET-SA-004	03

KEY PLAN

NOTES

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No	DATE	REVISION	DESCRIPTION	CHECKED	P.MANAGER
3	22-07-2026	REV. 3	UPDATED SCOPE OF WORKS PLANS	E.I.	N.H.
2	27-01-2026	REV. 2	PAVEMENT LAYER MODIFICATIONS	E.I.	N.H.
1	30-12-2025	REV. 1	BASED ON CDR REVIEW	E.I.	N.H.

REPUBLIC OF LEBANON

COUNCIL FOR DEVELOPMENT
AND RECONSTRUCTION



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Damaged Roads Clearing And
Restoration in South Lebanon
(Sour Caza)

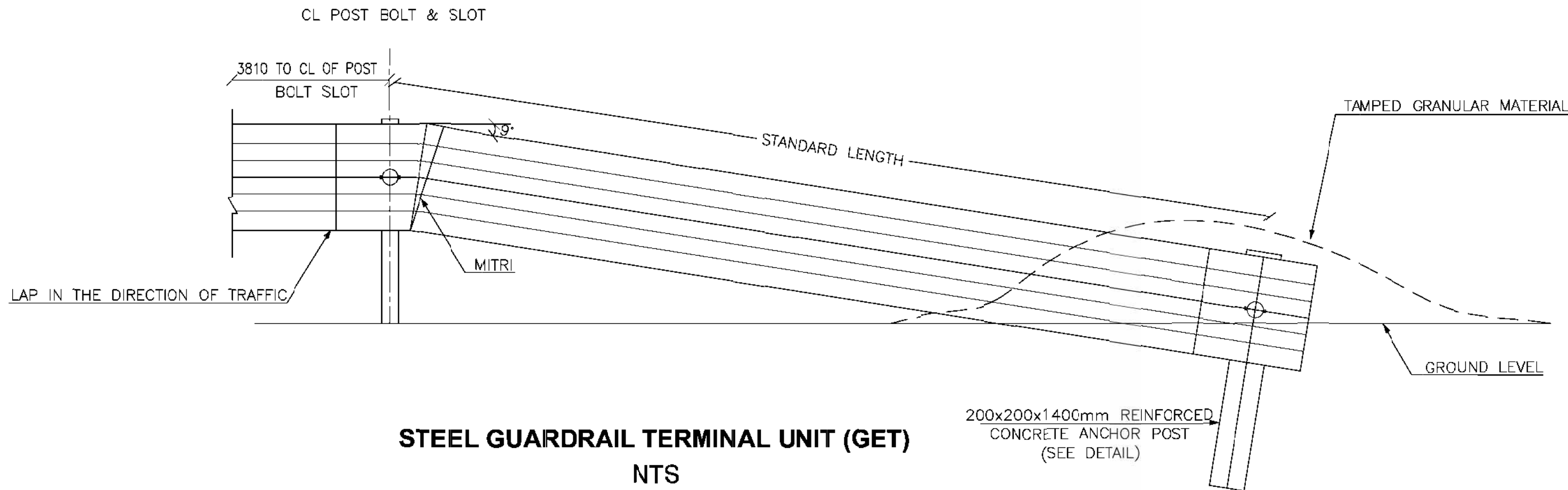
STANDARD DETAILS
TEMPORARY TRAFFIC SIGNING
& SAFETY DEVICES DETAILS
(SHEET 5 OF 5)

STAGE : TENDER DRAWINGS

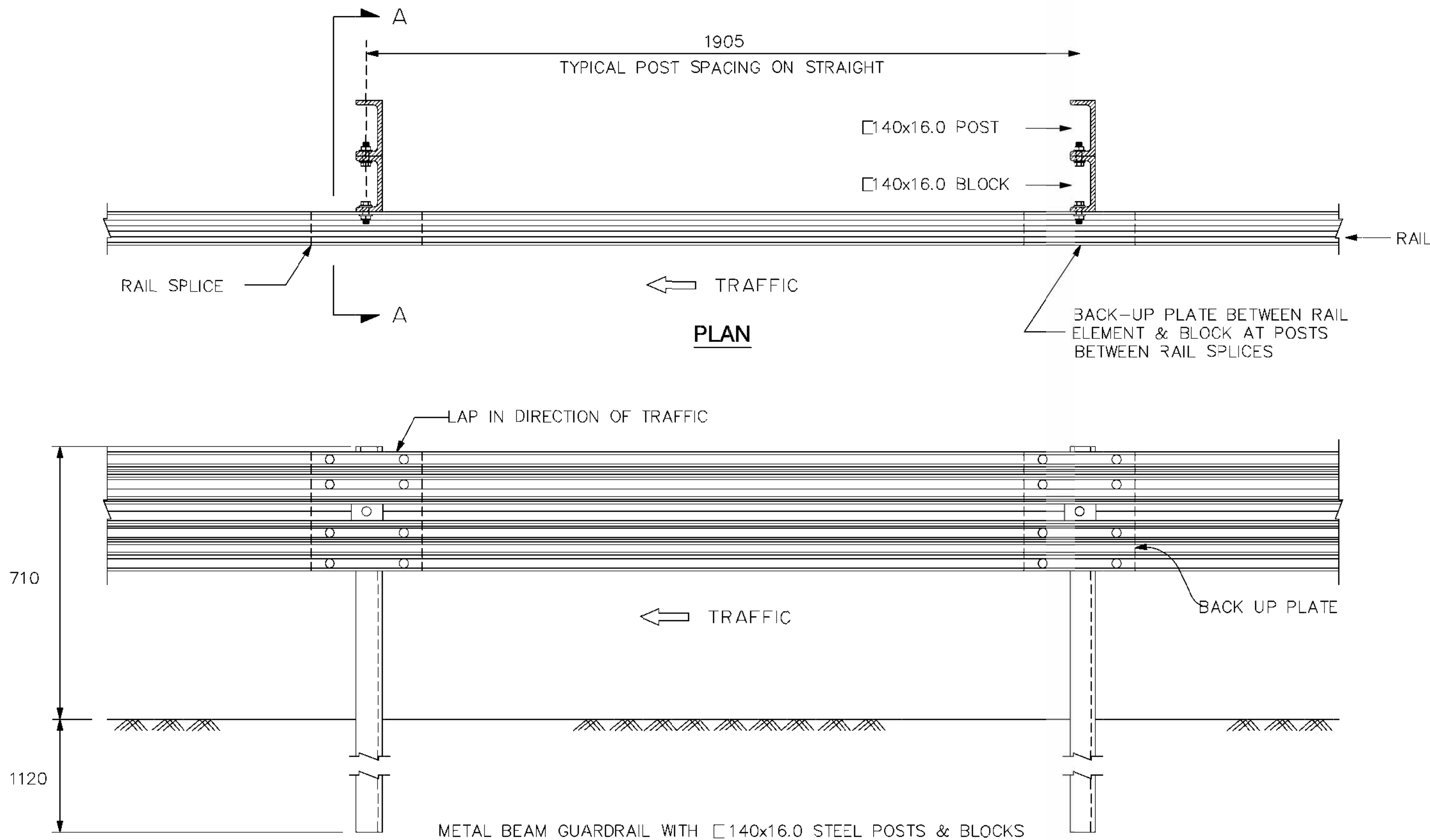
DATE August-2026

SCALE N.T.S.

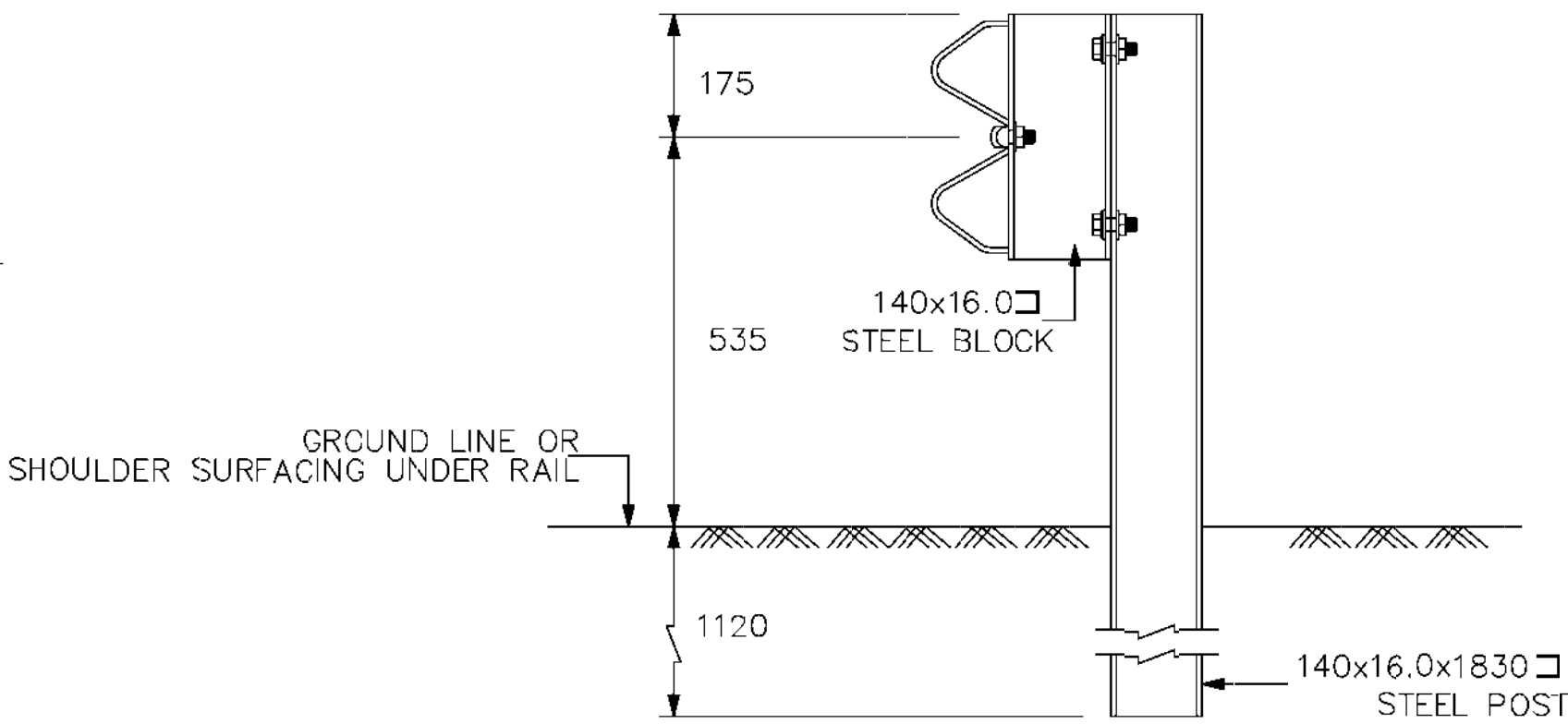
DRAWING No. L2502D-DET-SA-005
REV 03



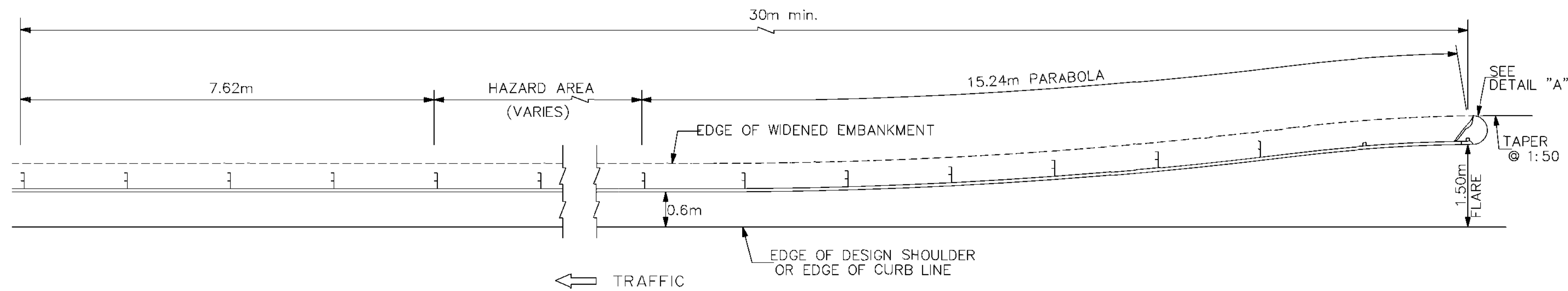
STEEL GUARDRAIL TERMINAL UNIT (GET)
NTS



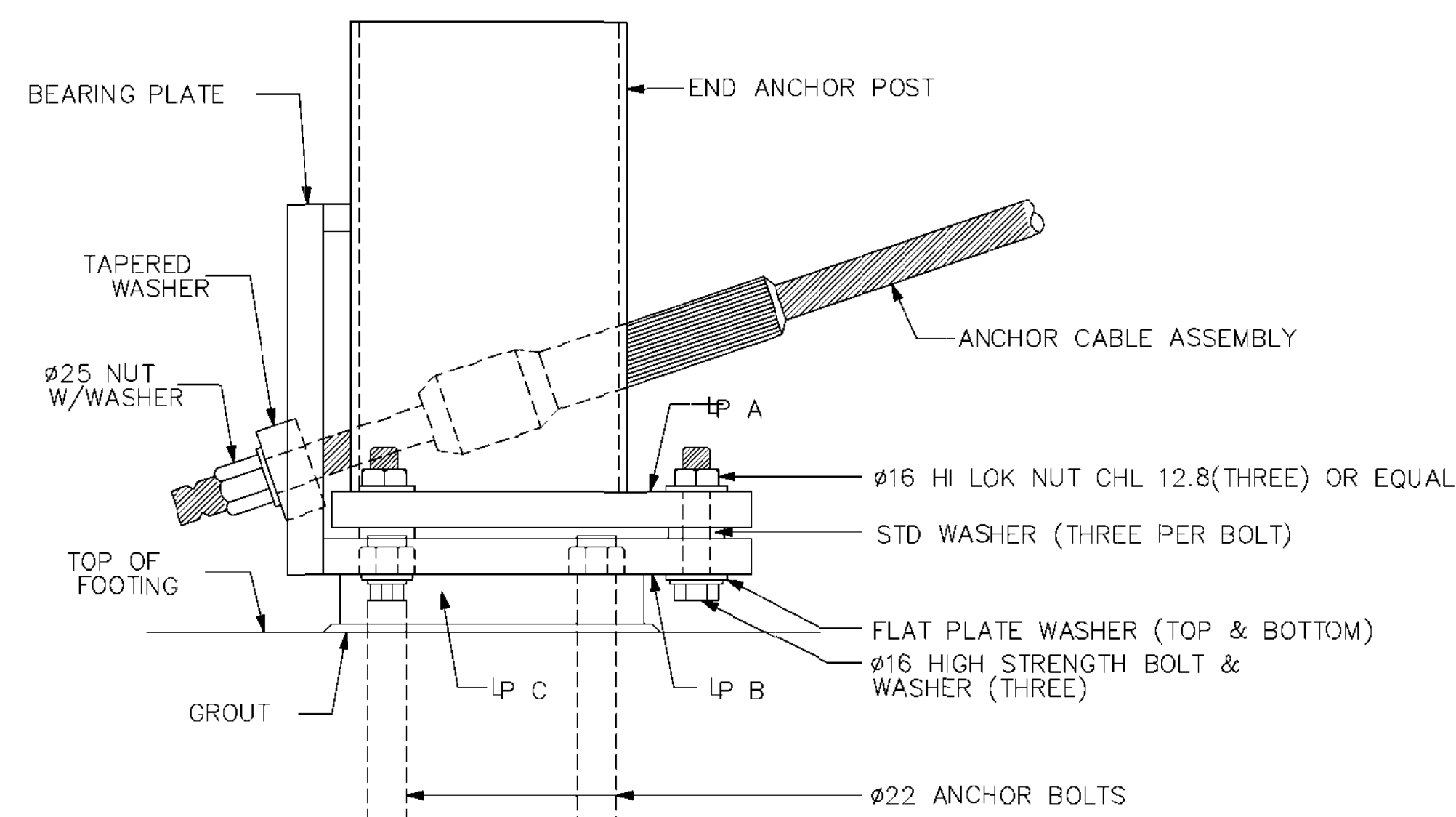
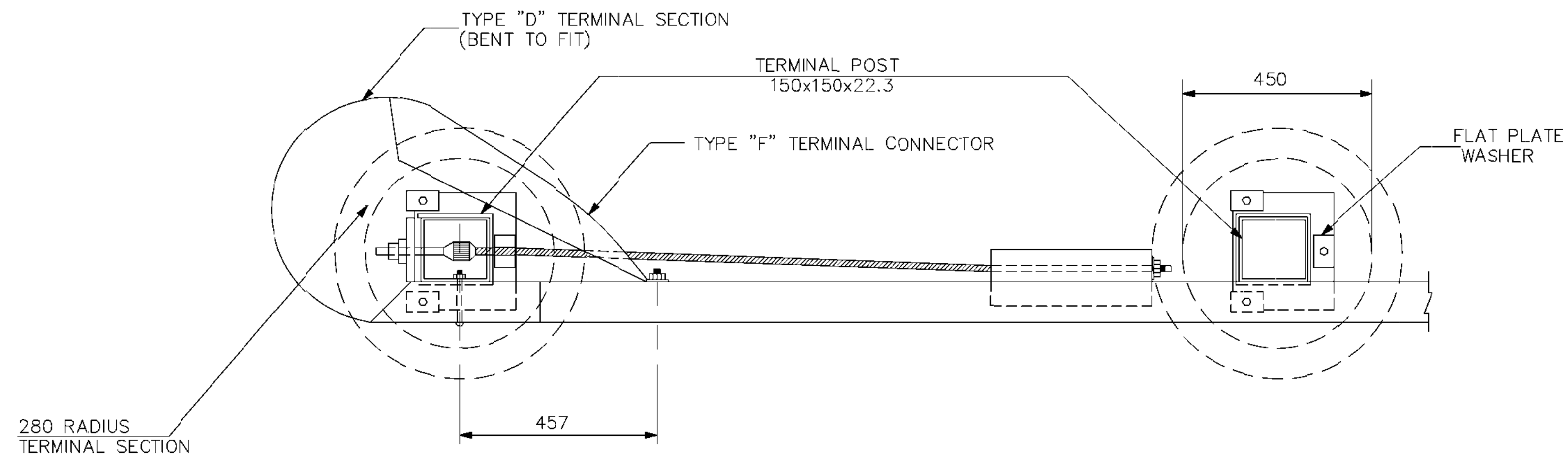
ELEVATION
TYPICAL LAYOUT ON STRAIGHT
SCALE 1:10



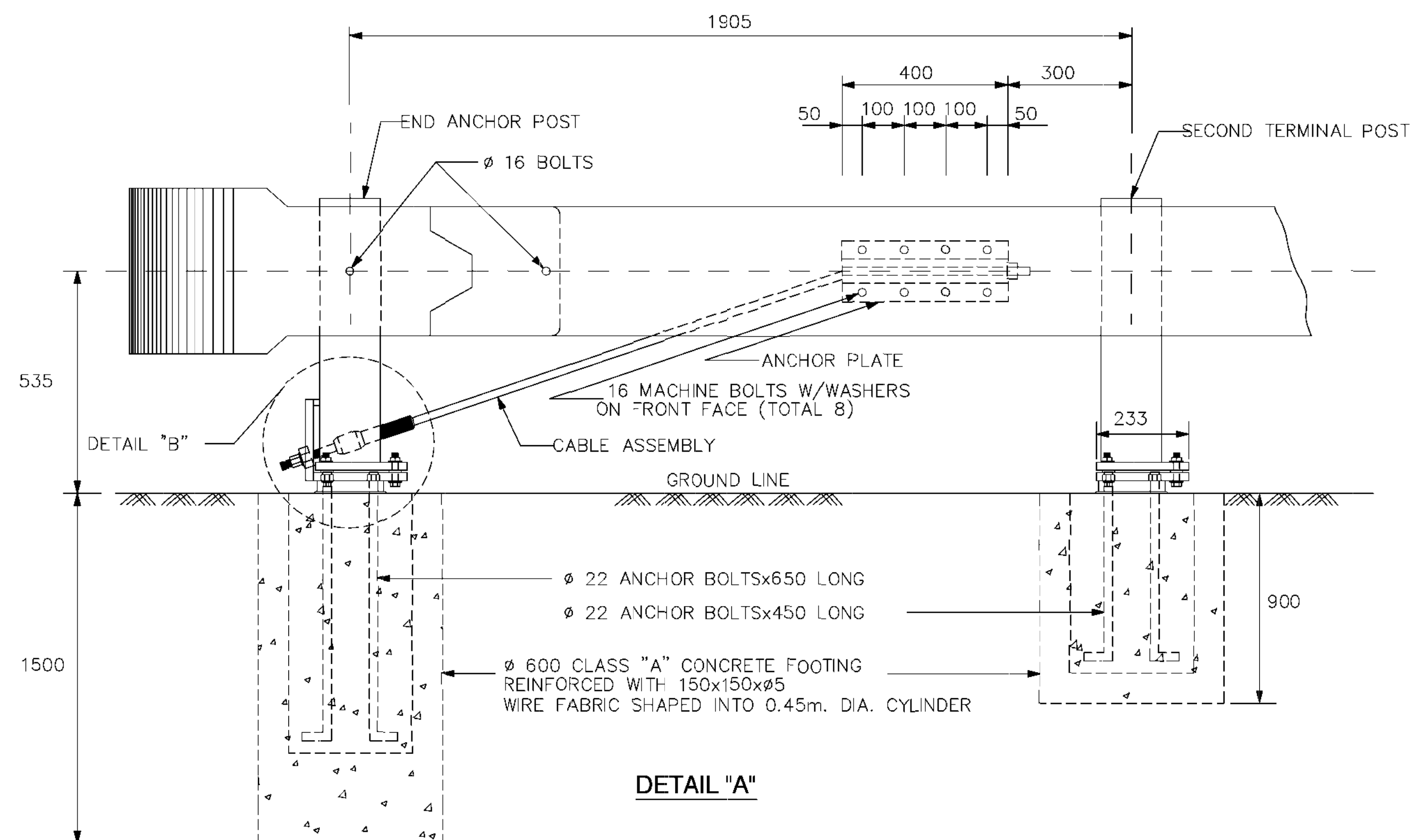
SECTION A- A



TYPICAL PLACEMENT DETAIL (DIMENSIONS IN METERS)
(N . T . S)



DETAIL "B"



DETAIL "A"

KEY PLAN

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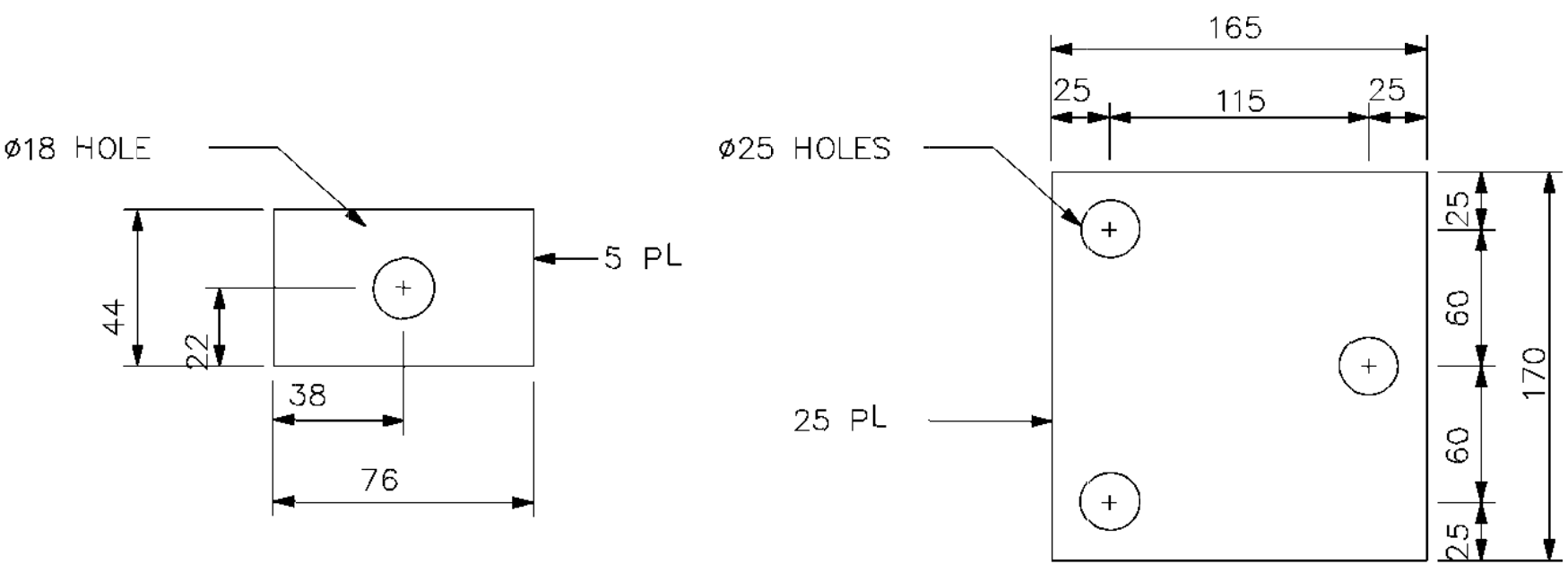
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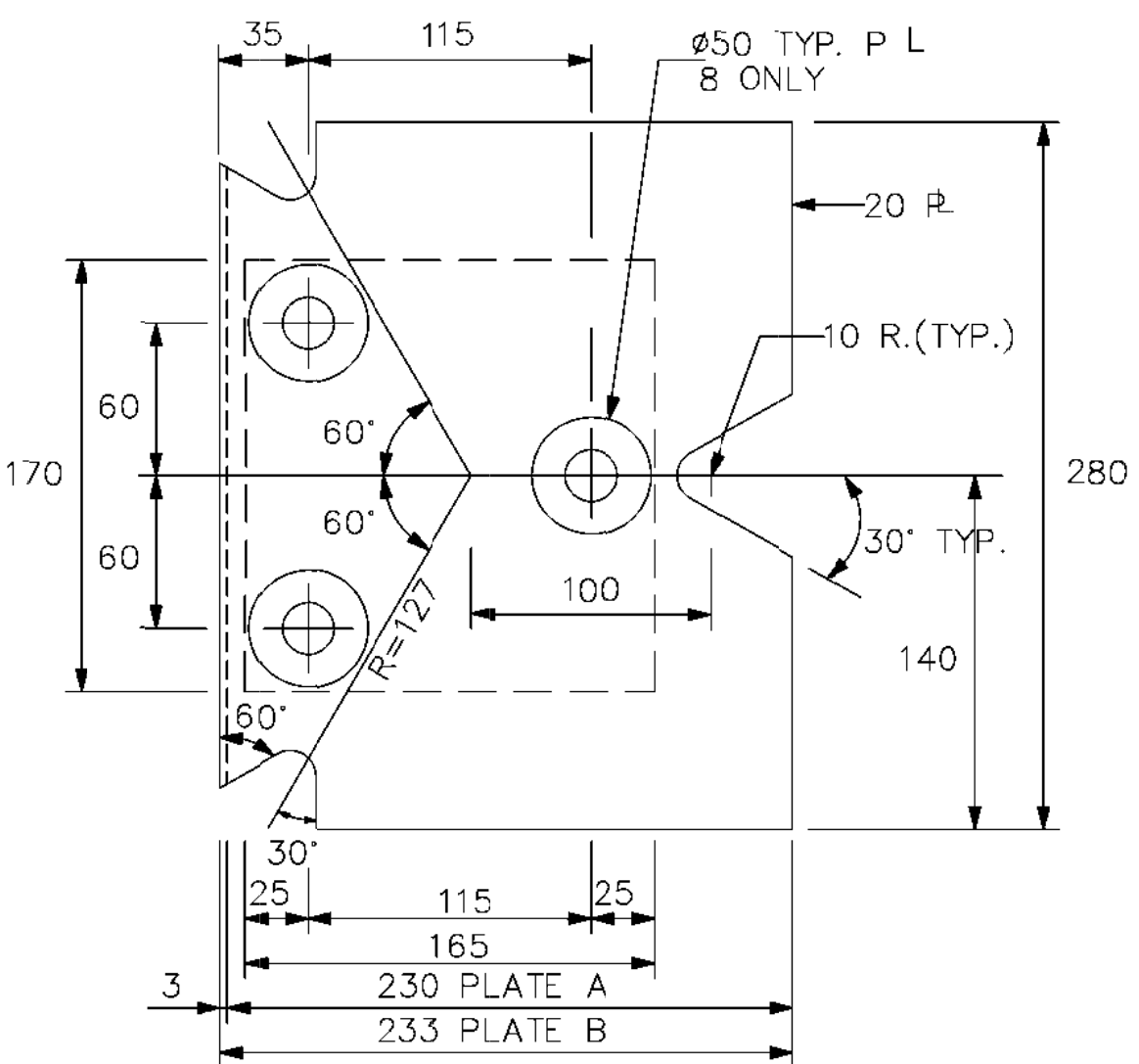
Damaged Roads Clearing And Restoration in South Lebanon (Sour Caza)	STAGE : TENDER DRAWINGS
DATE August-2026	SCALE N.T.S.
STANDARD DETAILS STEEL GUARDRAIL DETAILS (SHEET 1 OF 3)	DRAWING No. REV L2502D-DET-SA-006 03

RAIL , POST , BLOCK & PLATE DETAILS

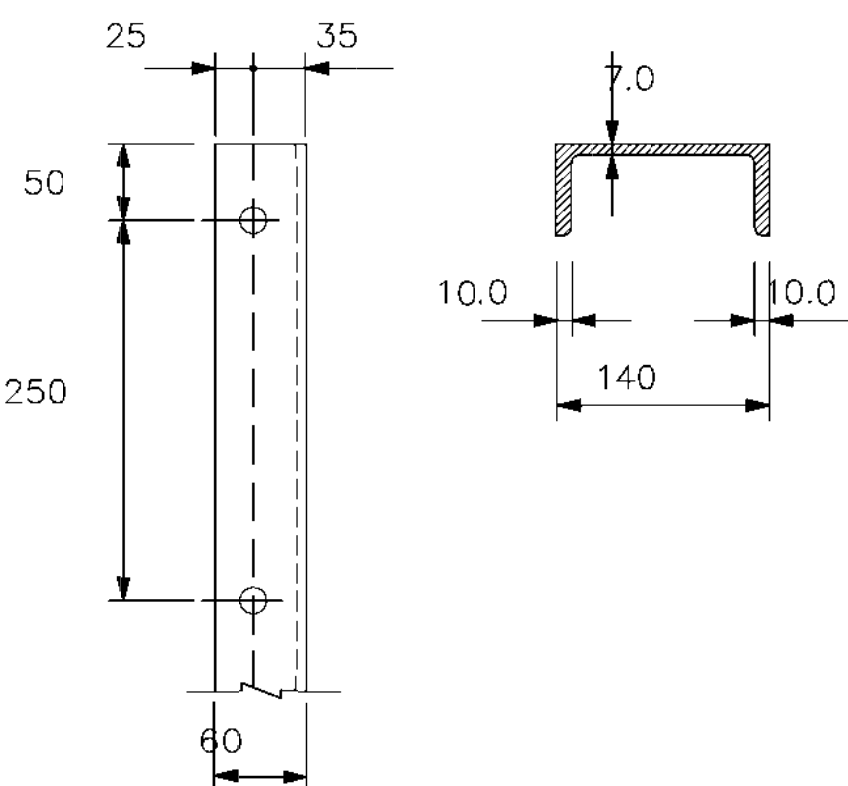


FLAT PLATE WASHER

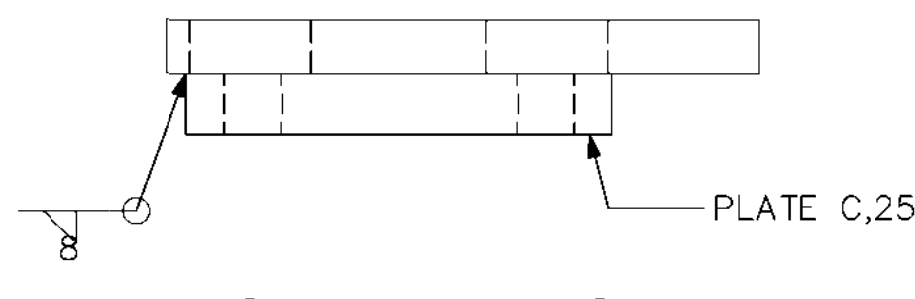
BASE PLATE C



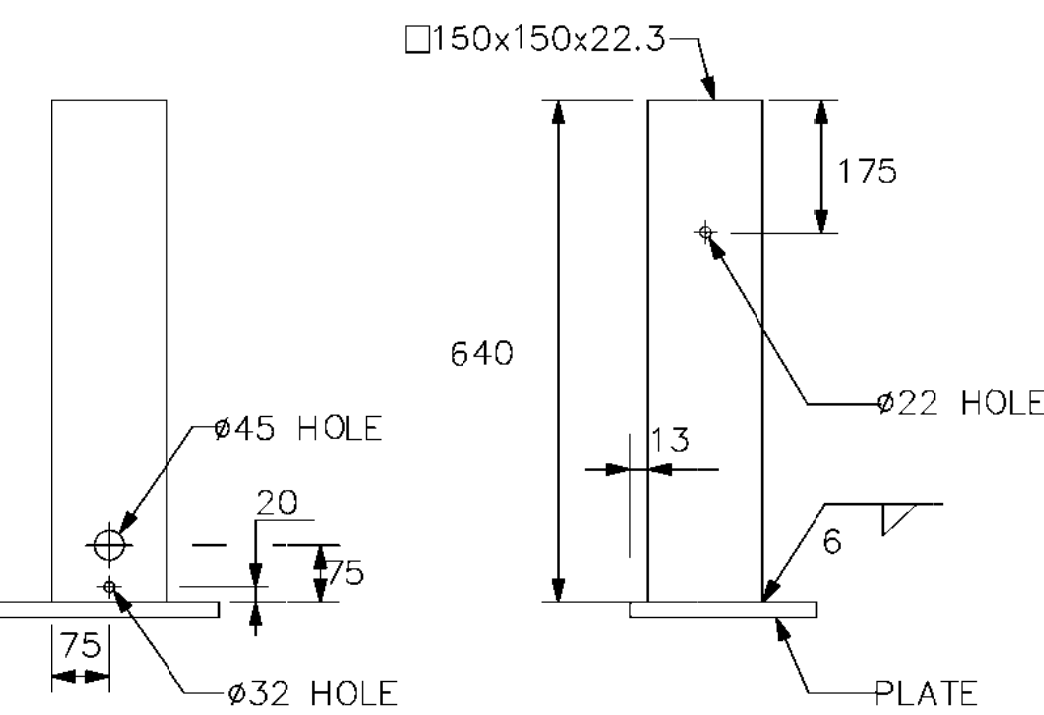
BASE PLATE A & B



140x16.0 STEEL POST



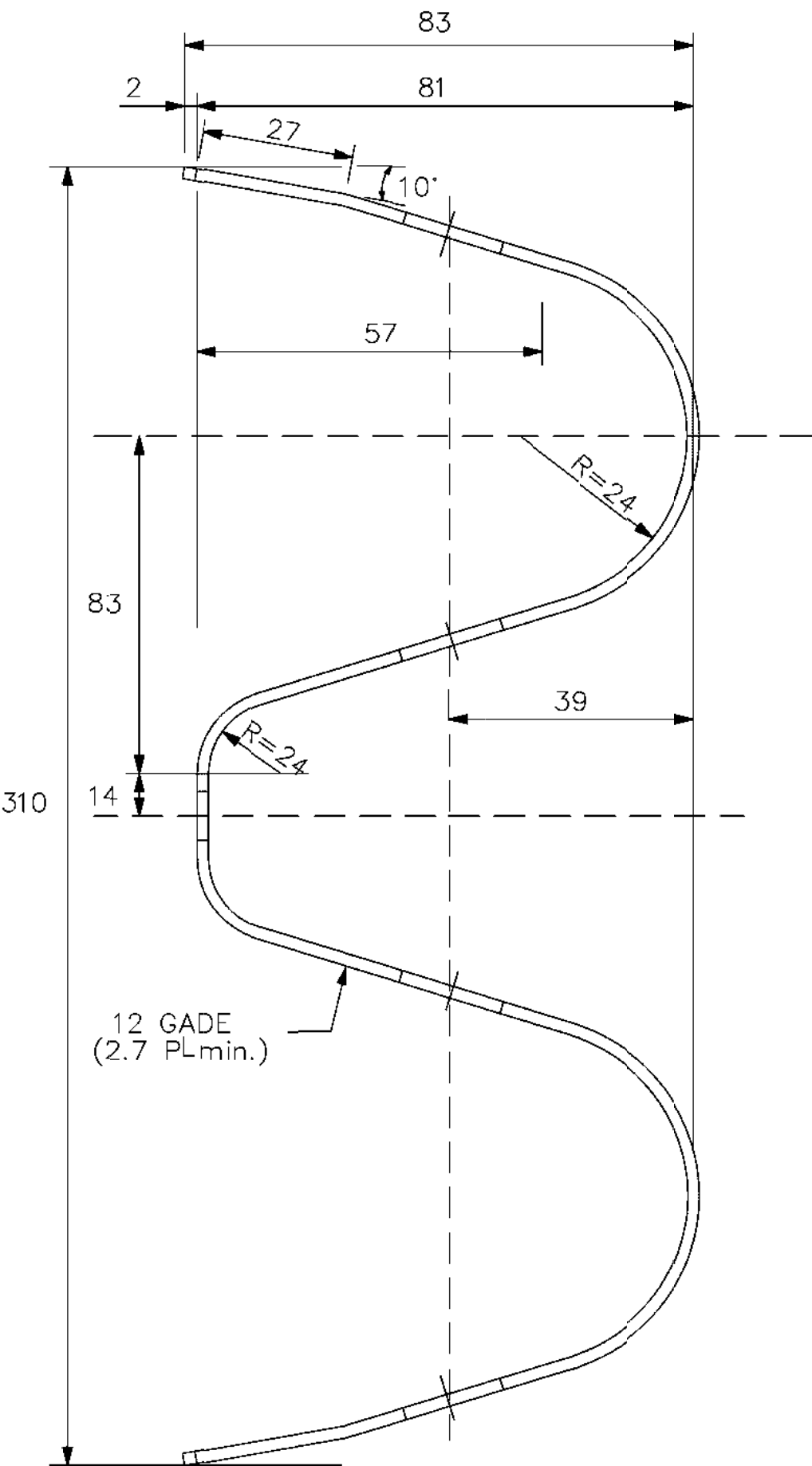
FOUNDATION POST



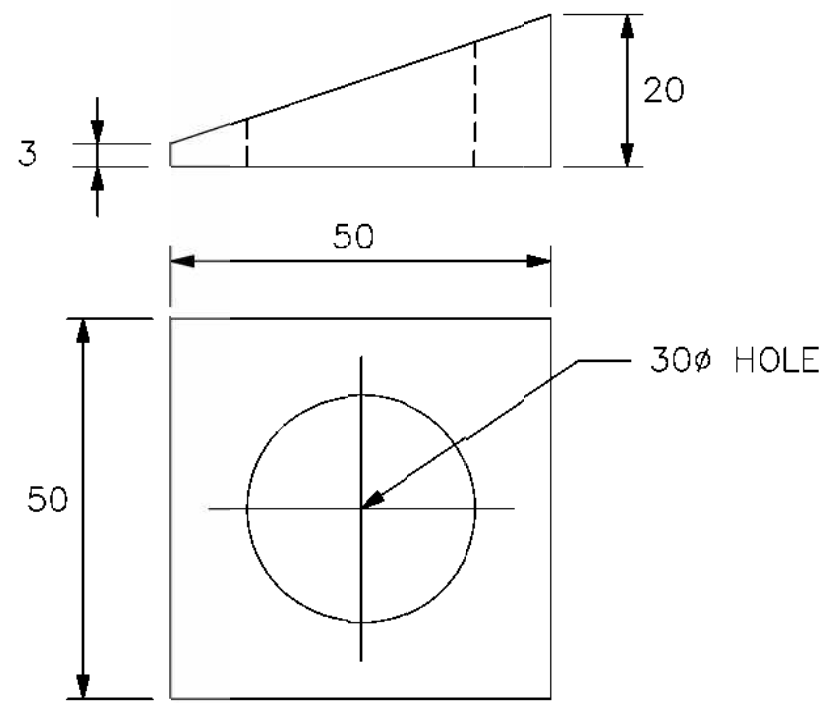
FRONT

PLAN

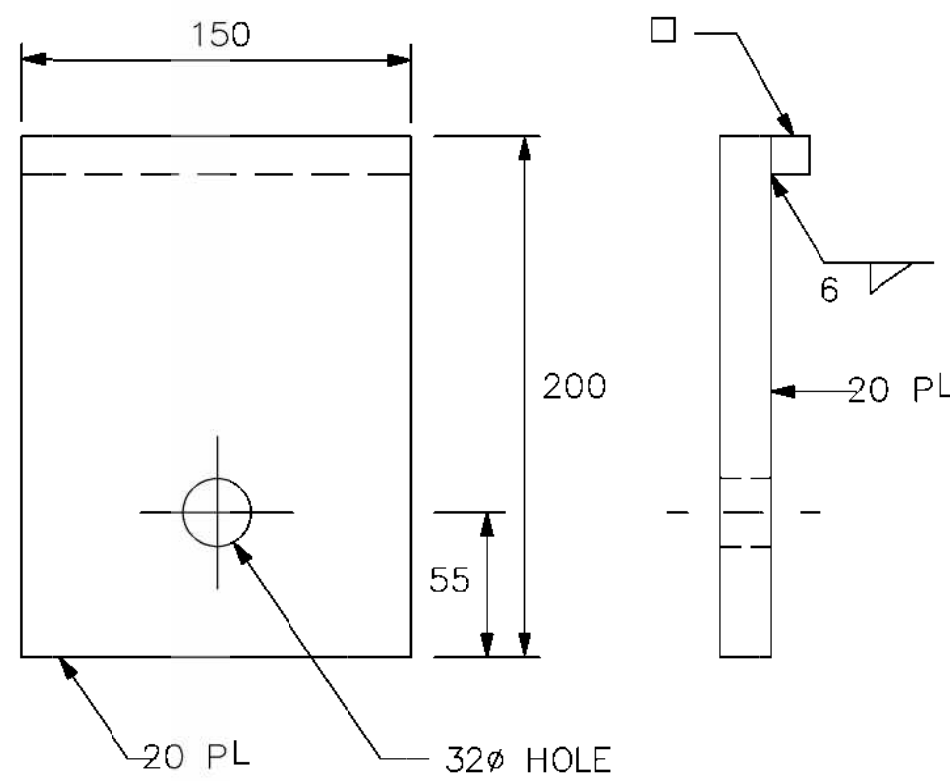
TERMINAL POST



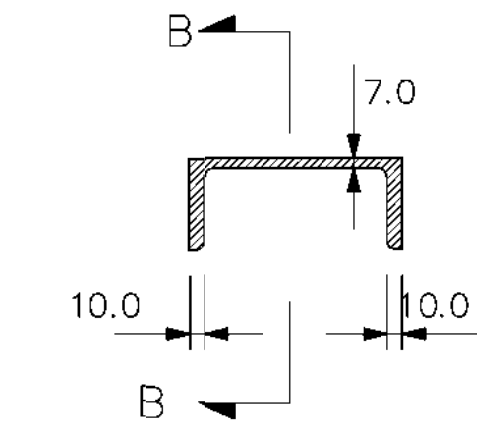
SECTION THRU
RAIL ELEMENT



TAPPERED WASHER



BEARING PLATE



140x16.0 STEEL BLOCK

KEY PLAN

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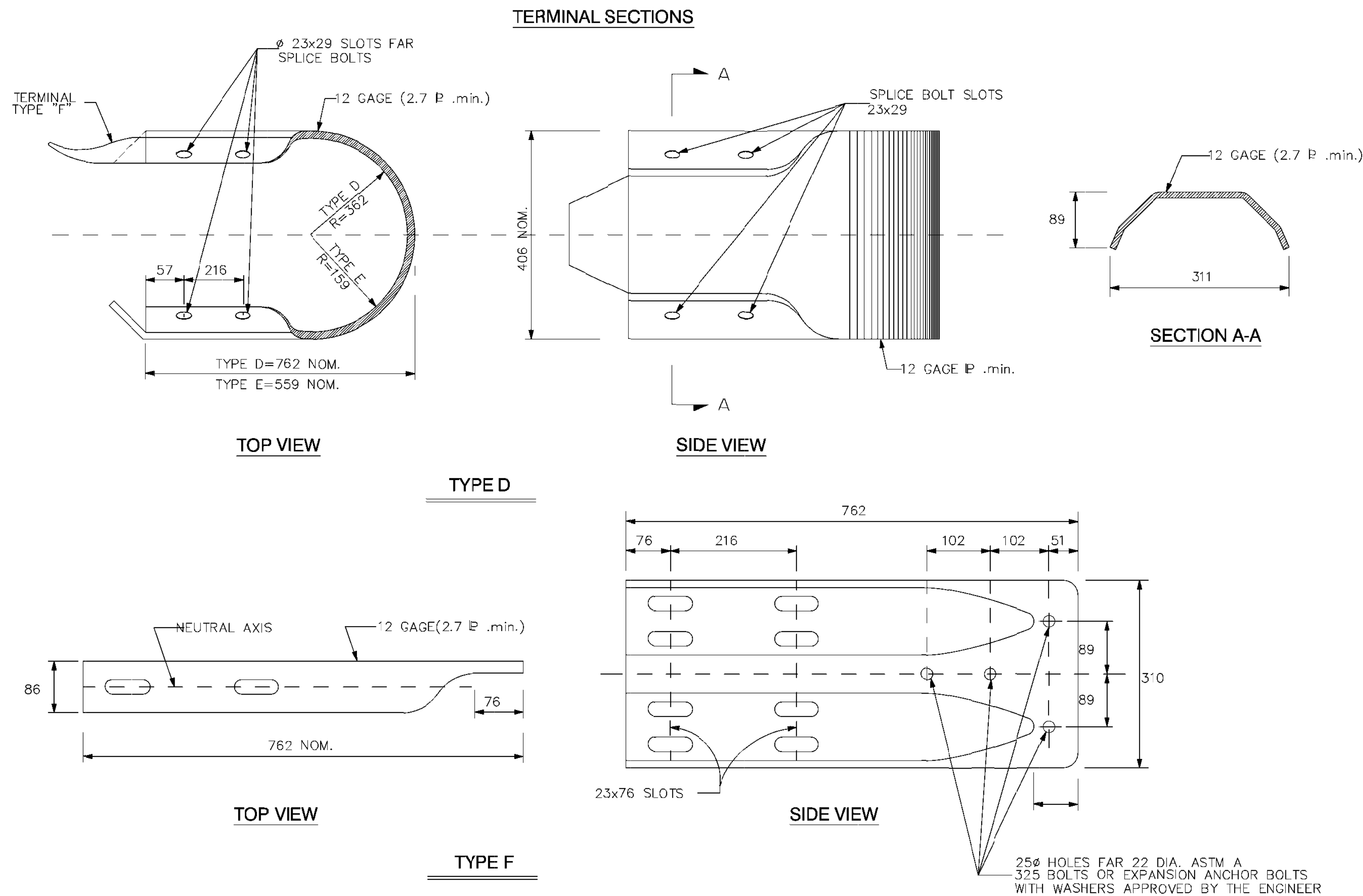
STANDARD DETAILS
STEEL GUARDRAIL DETAILS
(SHEET 2 OF 3)

STAGE : TENDER DRAWINGS

DATE August-2026

SCALE N.T.S.

DRAWING No. L2502D-DET-SA-007
REV 03



KEY PLAN

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Damaged Roads Clearing And
Restoration In South Lebanon
(Sour Caza)

STANDARD DETAILS
STEEL GUARDRAIL DETAILS
(SHEET 3 OF 3)

STAGE : TENDER DRAWINGS

DATE August-2026

SCALE N.T.S.

DRAWING No. L2502D-DET-SA-008
REV 03