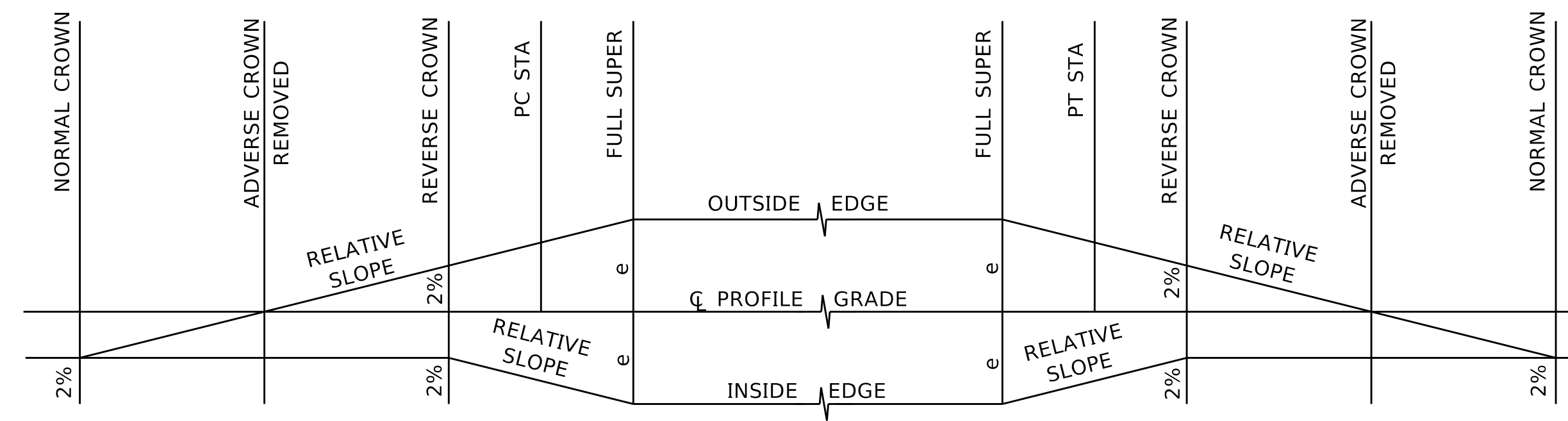


Information
Table of Contents
August 1, 2025

| Plan No. | Title | Comments |
|-----------------|------------------------------|---------------------|
| 1000 3 R1 | Superelevation Diagram | OCT 2024 - Revision |
| 3010 3 R1 | Phasing for Concrete Island | |
| 4000 3 R0 | Minimum Backfill For Traffic | |
| 4300 3 R2 | 4" Pipe Underdrain | |
| 4310 3 R0 | Granular Sub-Drain Details | |
| 4335 3 R3 | Approach Slab Drainage Inlet | |
| 5000 3 R0 | Contour Cultivation | |
| 9000 3 R1 | Object Markers | AUG 2025 - Revision |

Project Number

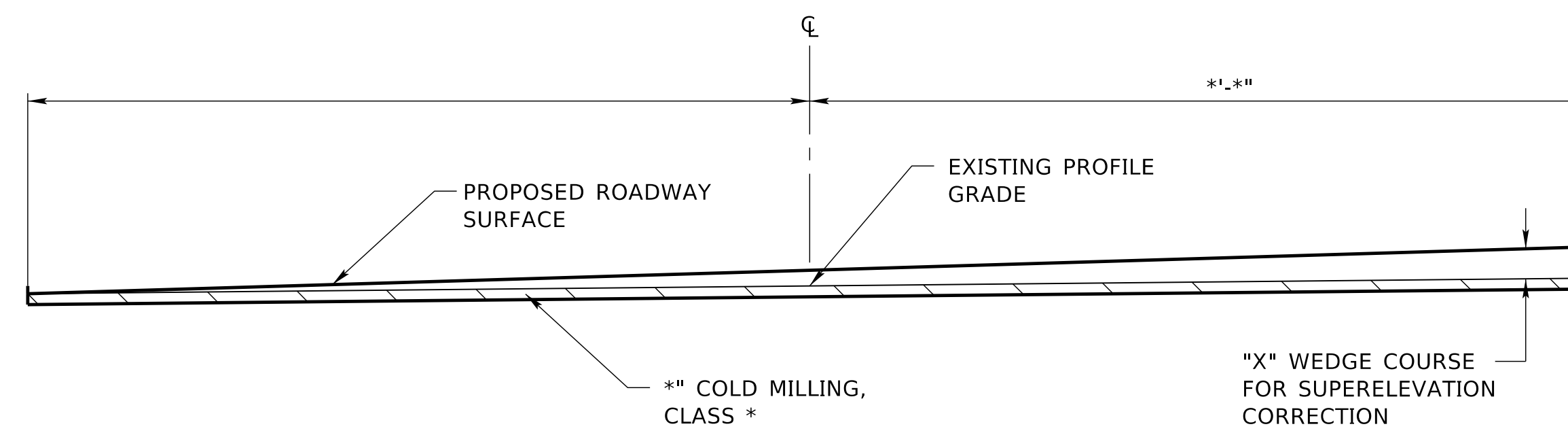
C.N.



| SUPERELEVATION | | | | | | | | | | | | | |
|----------------|-----------------|--------------------|----------------|----------------------|-------------------------------|-----------------------|--------------|--------------------|--------------------|--------------|-----------------------|-------------------------------|----------------------|
| P.I. STATION | RADIUS OF CURVE | SUPERELEVATION e % | RELATIVE SLOPE | NORMAL CROWN STATION | ADVERSE CROWN REMOVED STATION | REVERSE CROWN STATION | P.C. STATION | FULL SUPER STATION | FULL SUPER STATION | P.T. STATION | REVERSE CROWN STATION | ADVERSE CROWN REMOVED STATION | NORMAL CROWN STATION |
| * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| * | * | * | * | * | * | * | * | * | * | * | * | * | * |

FOR DETAILS NOT SHOWN SEE PLAN ___

SUPERELEVATION DIAGRAM



WEDGE COURSE FOR SUPERELEVATION CORRECTION

STA. __+__ TO STA. __+__

| SUPERELEVATION CORRECTION | | | |
|---------------------------|-----------------|------|------------------------------|
| STATION TO STATION | QUANTITY (TONS) | TYPE | MAXIMUM "X" CORRECTION DEPTH |
| * - * | * | * | " |

FOR INFORMATION ONLY

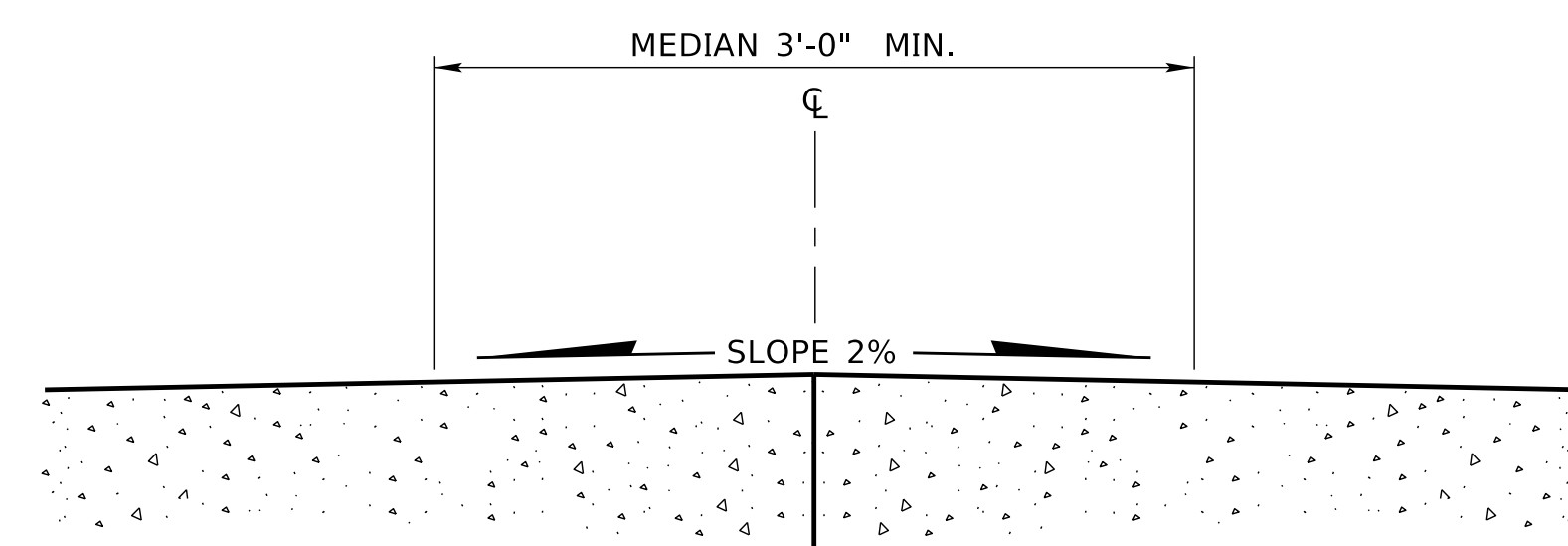
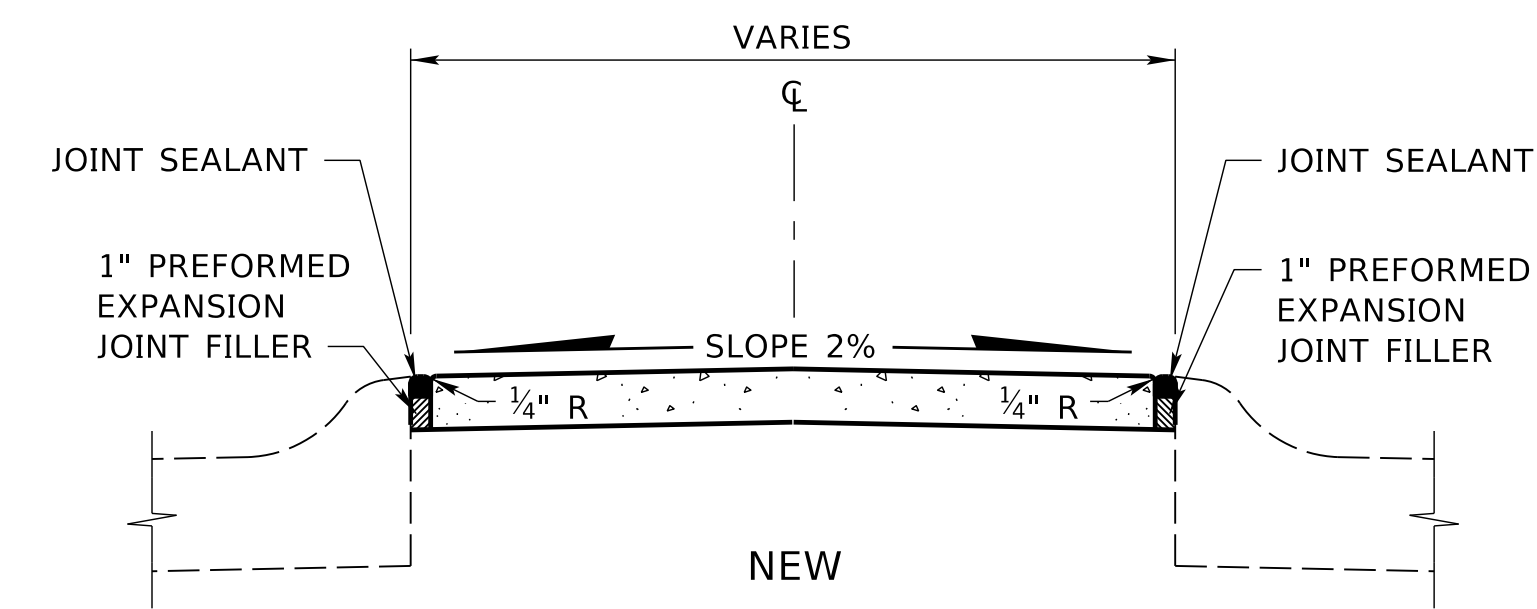
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Roadway Design Division

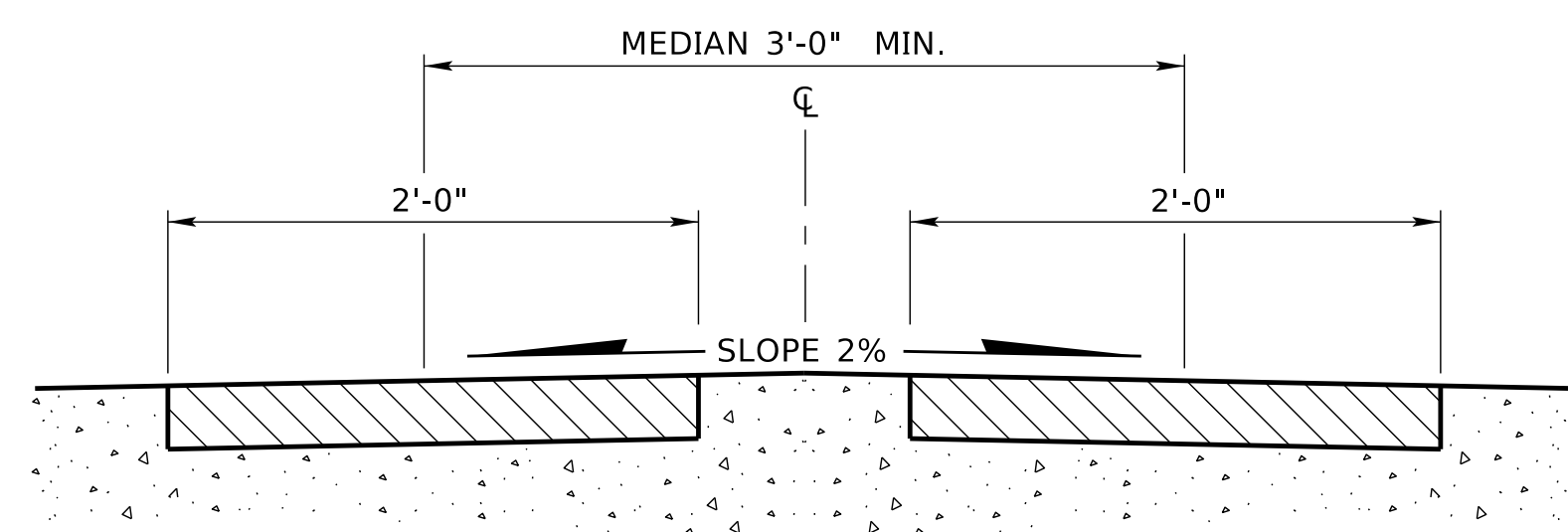
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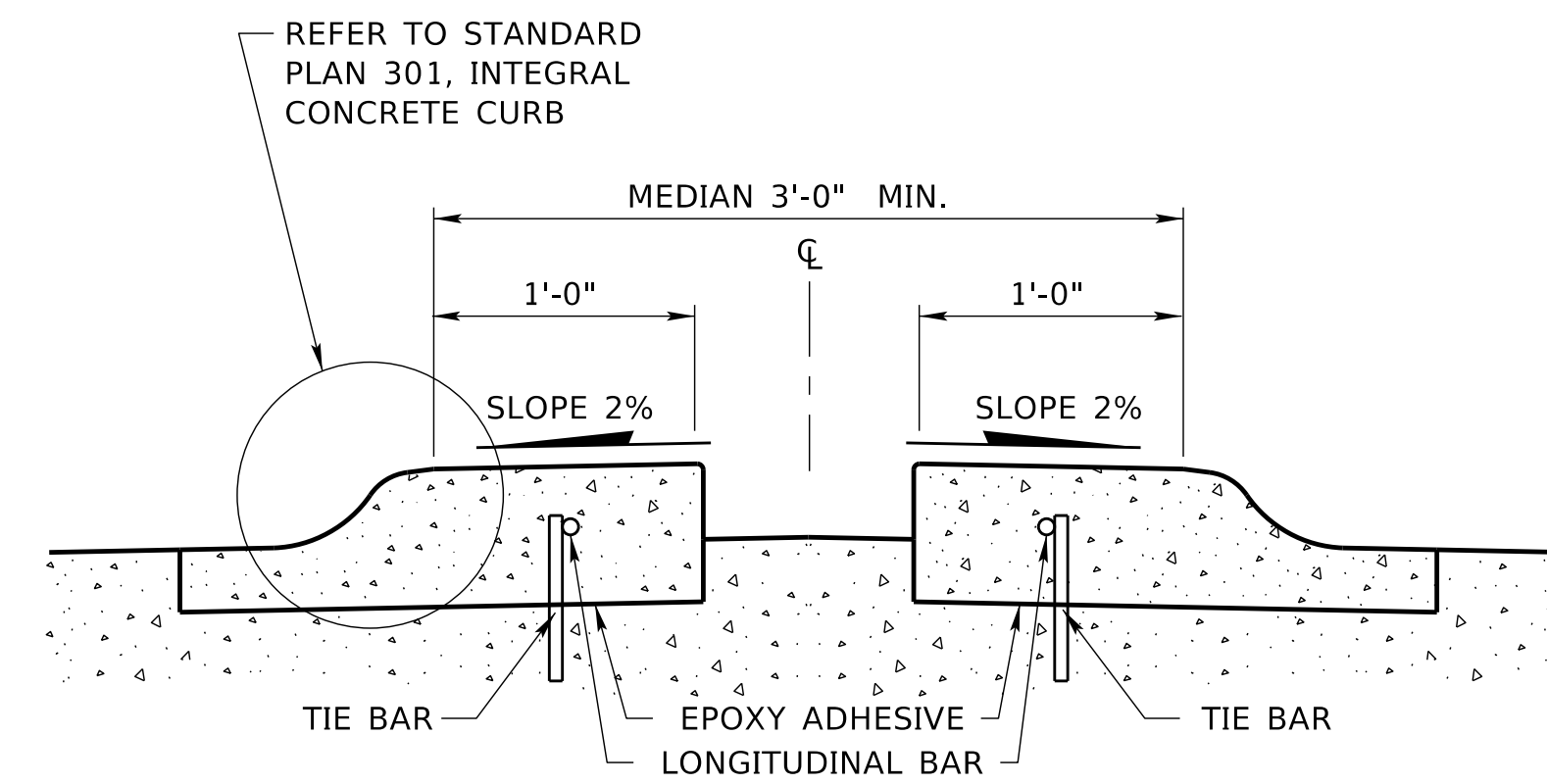
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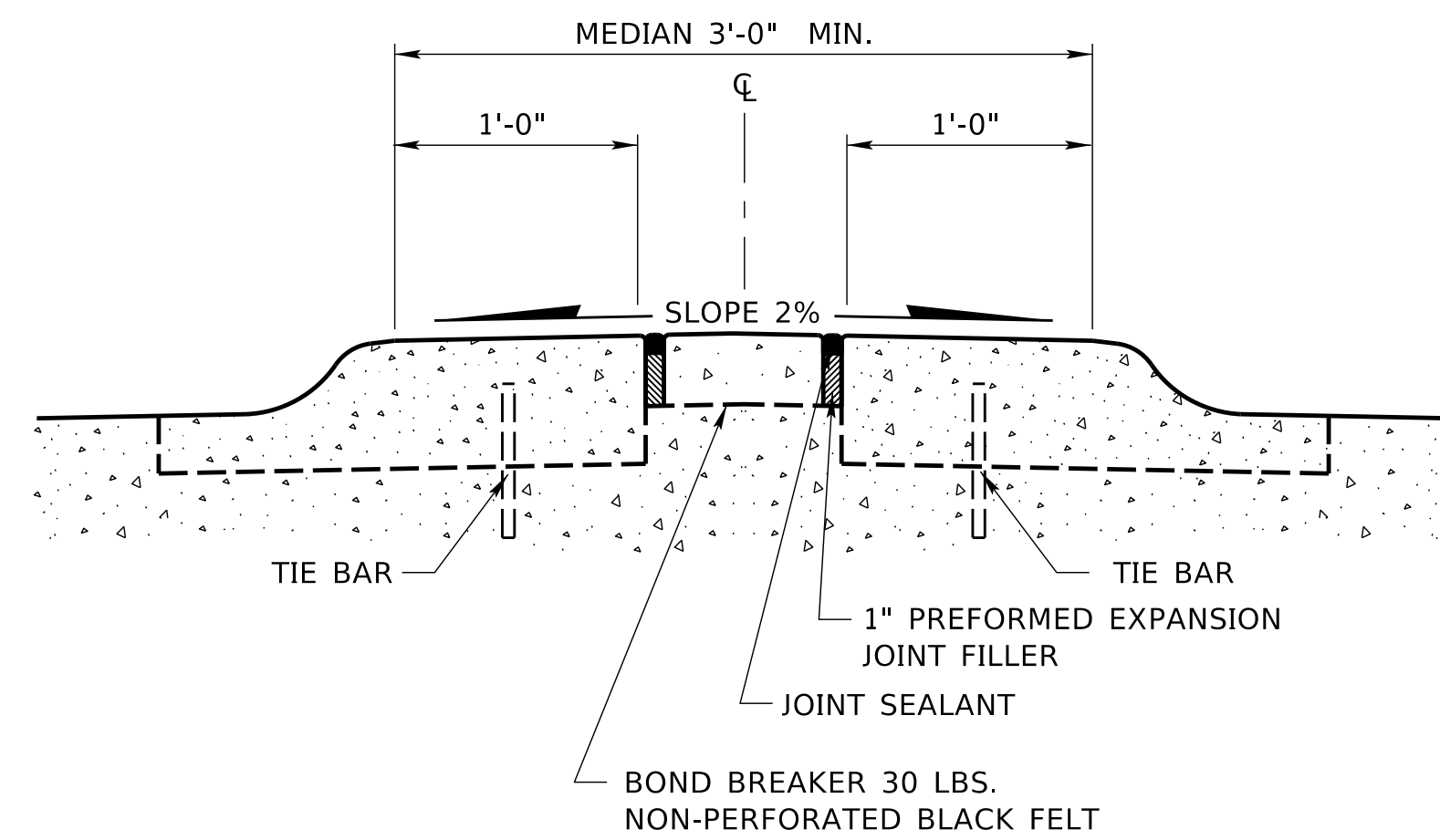
STEP I - BUILD TRAFFIC LANE (FULL DEPTH)



STEP II - MILL 2" x 2'-0"



STEP III - BUILD CURB, WITH #5 x 8" TIE BAR AT 5'-0" CENTERS TO BE DRILLED AND GROUT AND #4 LONGITUDINAL BAR GAPPED AT CONTRACTION JOINT LOCATIONS: 3" MIN, 6" MAX.



STEP IV - BUILD MEDIAN SURFACING ON EXISTING SURFACE

CONCRETE MEDIAN SURFACING

PHASING FOR CONCRETE ISLAND
GENERAL INFORMATION

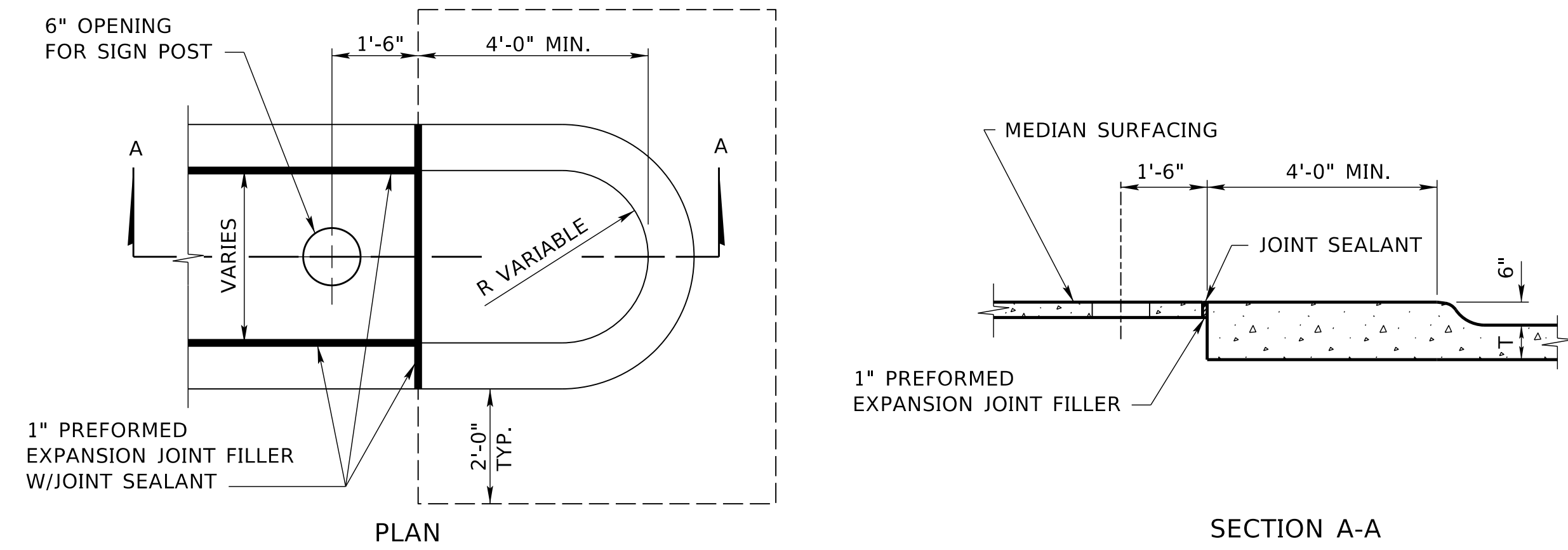
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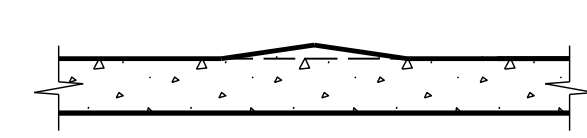
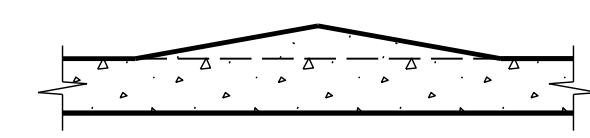
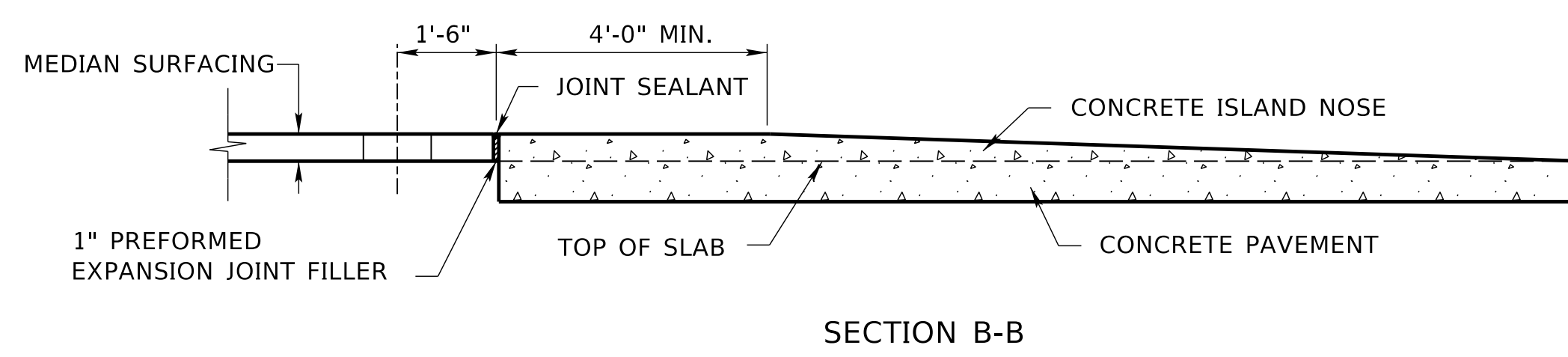
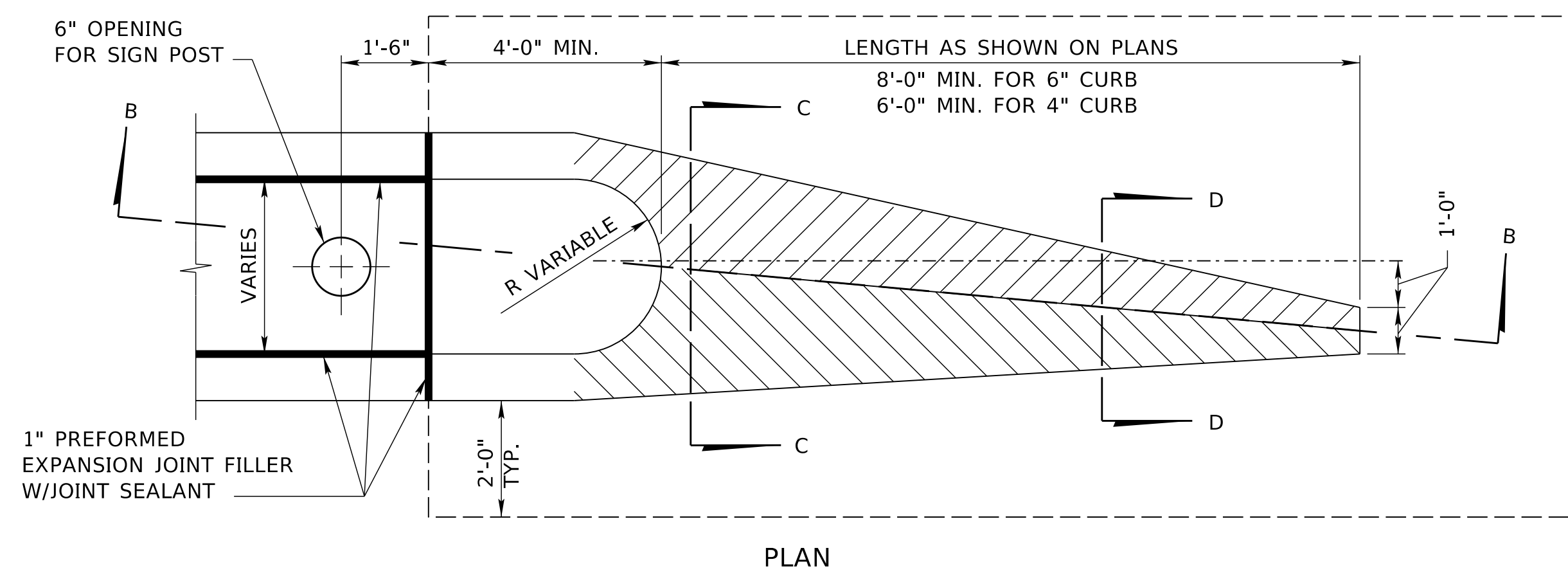
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END OF MEDIAN ISLAND



CONCRETE ISLAND NOSE FOR RETROFIT

NOTE:
EXISTING CONCRETE PAVEMENT IS TO BE REMOVED TO BUILD CONCRETE ISLAND NOSE.

PHASING FOR CONCRETE ISLAND
GENERAL INFORMATION

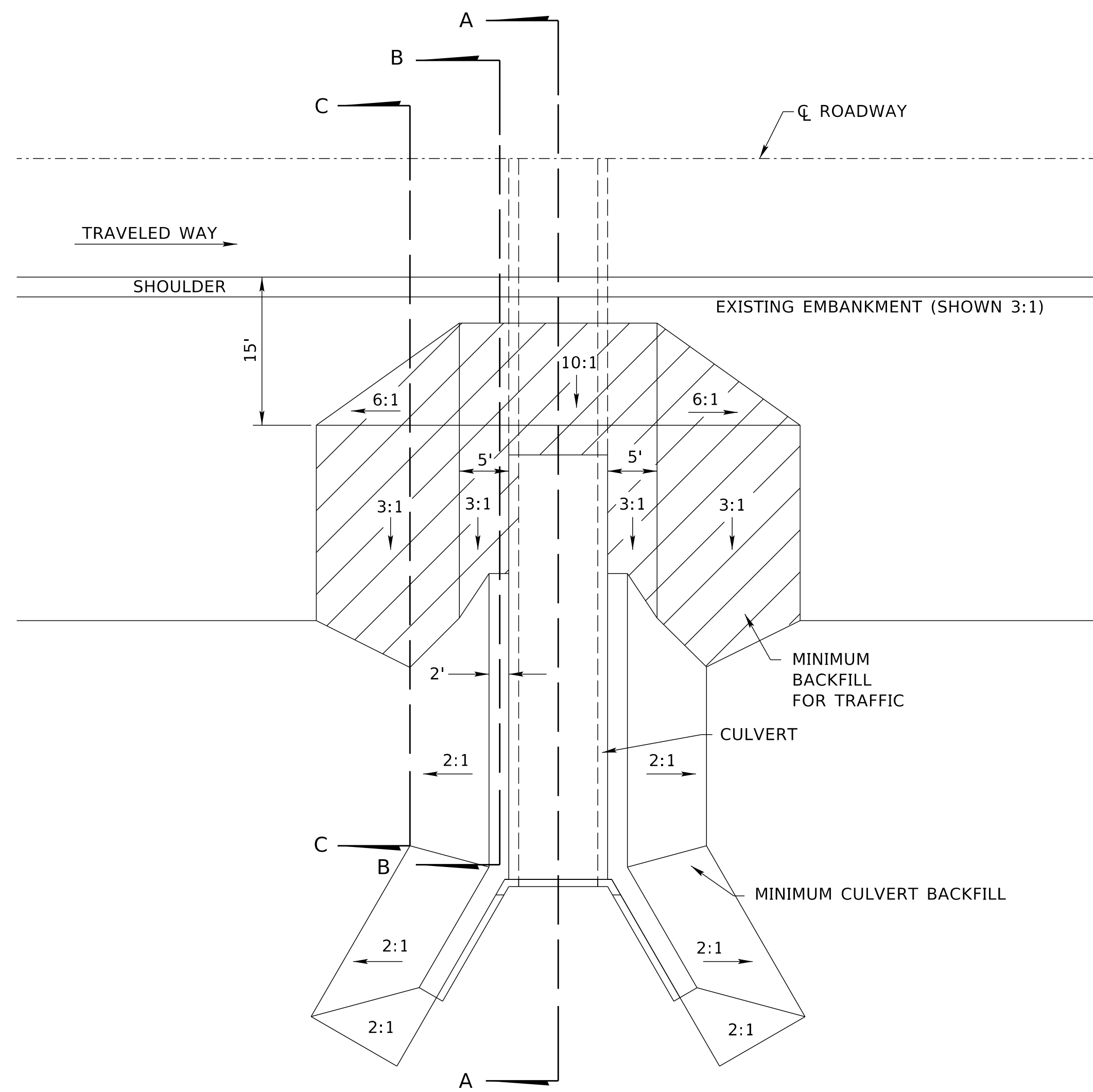


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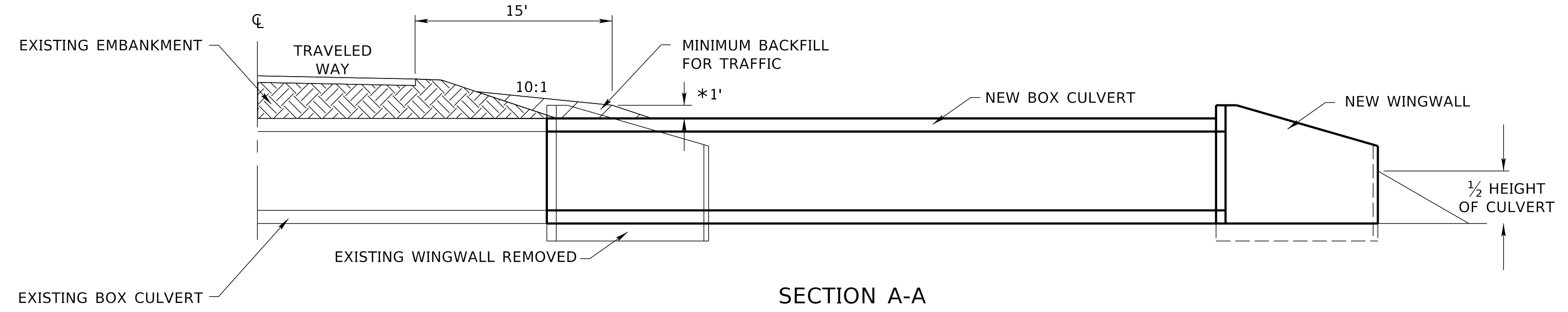
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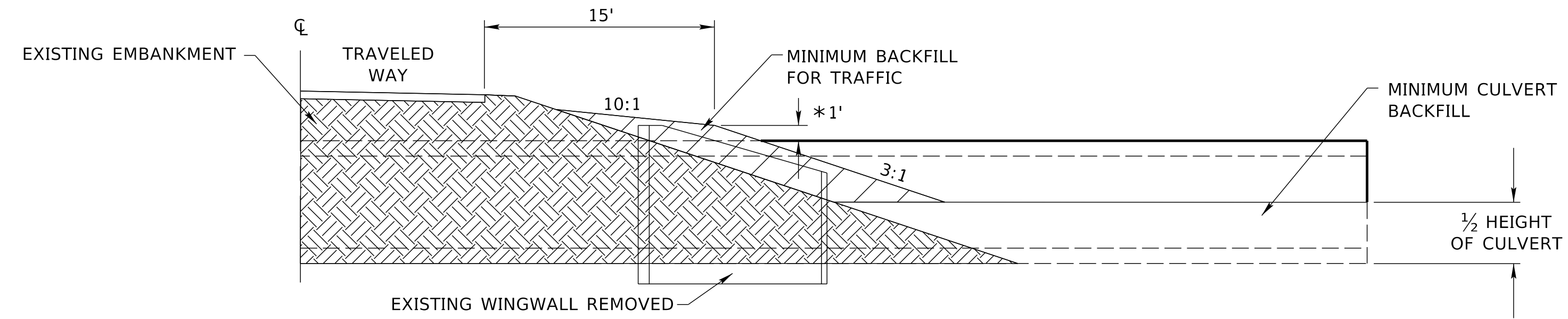


MINIMUM BACKFILL FOR TRAFFIC

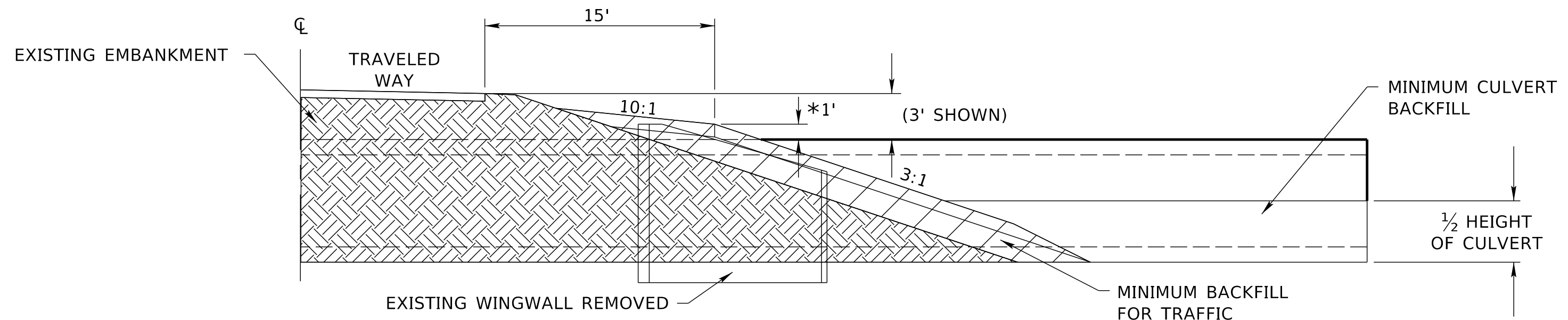
ISOMETRIC VIEW



SECTION A-A



SECTION B-B



SECTION C-C

NOTE:

REFER TO STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION SECTION 702 FOR MORE INFORMATION.

* TO PROTECT THE PIPE AND BACKFILL DURING CONSTRUCTION, PROVIDE A MINIMUM OF 36" OF COMPACTED FILL MATERIAL OVER THE TOP OF THE PIPE BEFORE ALLOWING ANY HEAVY EQUIPMENT TO TRAVERSE OVER THE PIPE. EXTREMELY HEAVY EQUIPMENT MAY REQUIRE LARGER COVER AS DETERMINED BY THE CONTRACTOR.

MINIMUM BACKFILL FOR TRAFFIC
GENERAL INFORMATION

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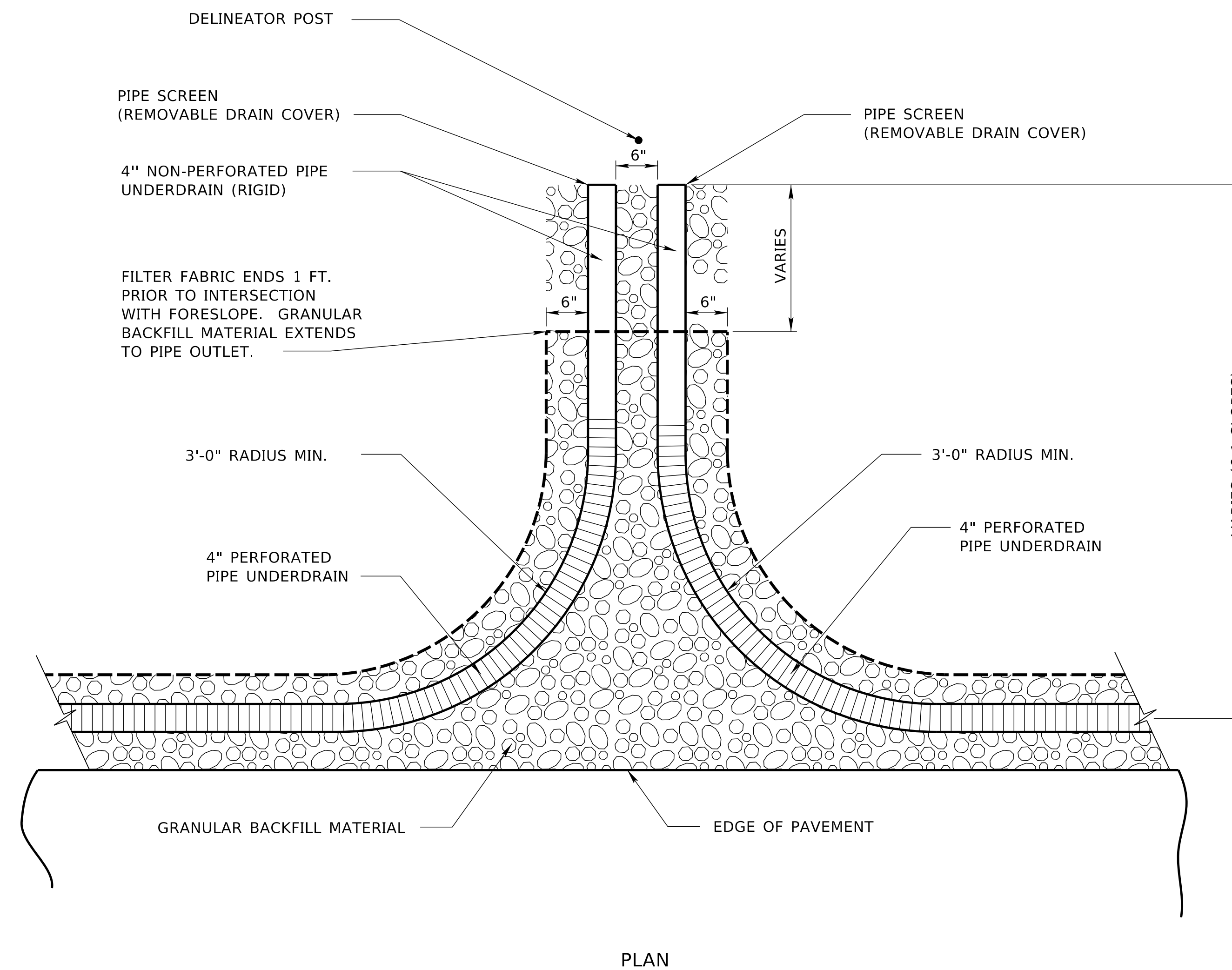
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FILE: 4000_3_R0.dgn

| BUILD 4" PIPE UNDERDRAIN | | | | | | |
|--------------------------|----|---------|---------|-------------|------------------------|---------------------------|
| STATION | TO | STATION | SIDE | DESCRIPTION | PERFORATED LIN. FT. | NONPERFORATED LIN. FT. |
| * | - | * | Lt./Rt. | * | * | * |



PLAN VIEW OF PIPE UNDERDRAIN OUTLET

4" PIPE UNDERDRAIN
GENERAL INFORMATION

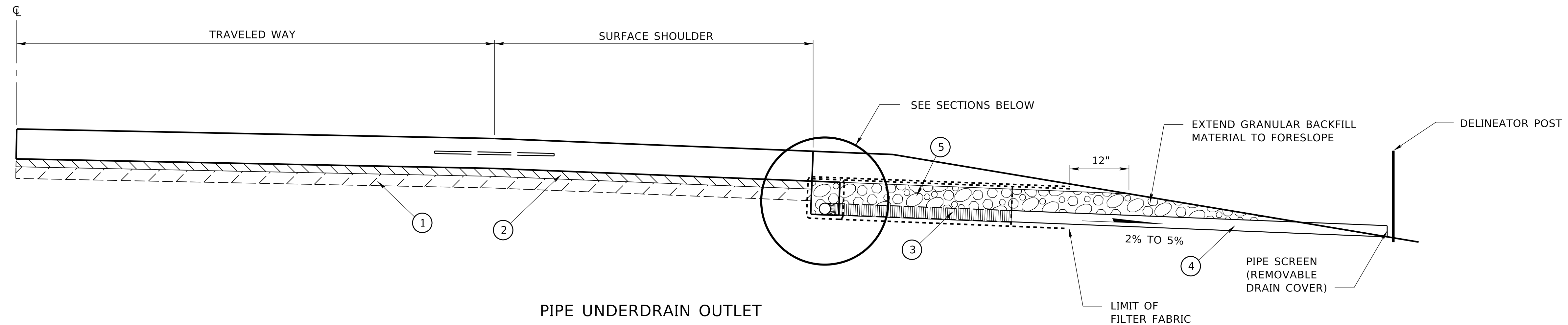
NEBRASKA
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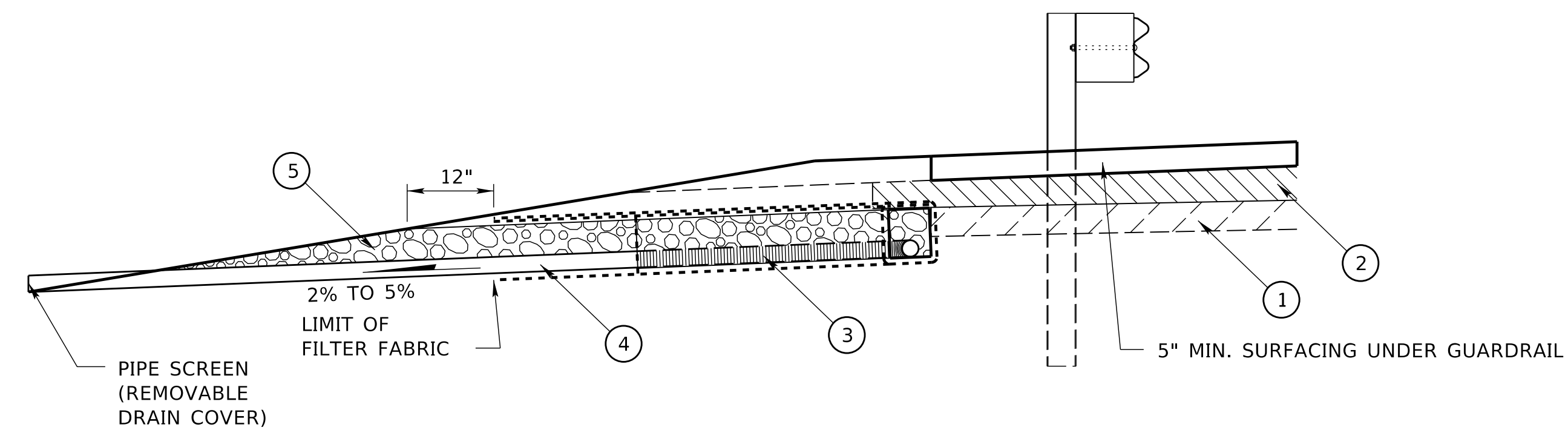
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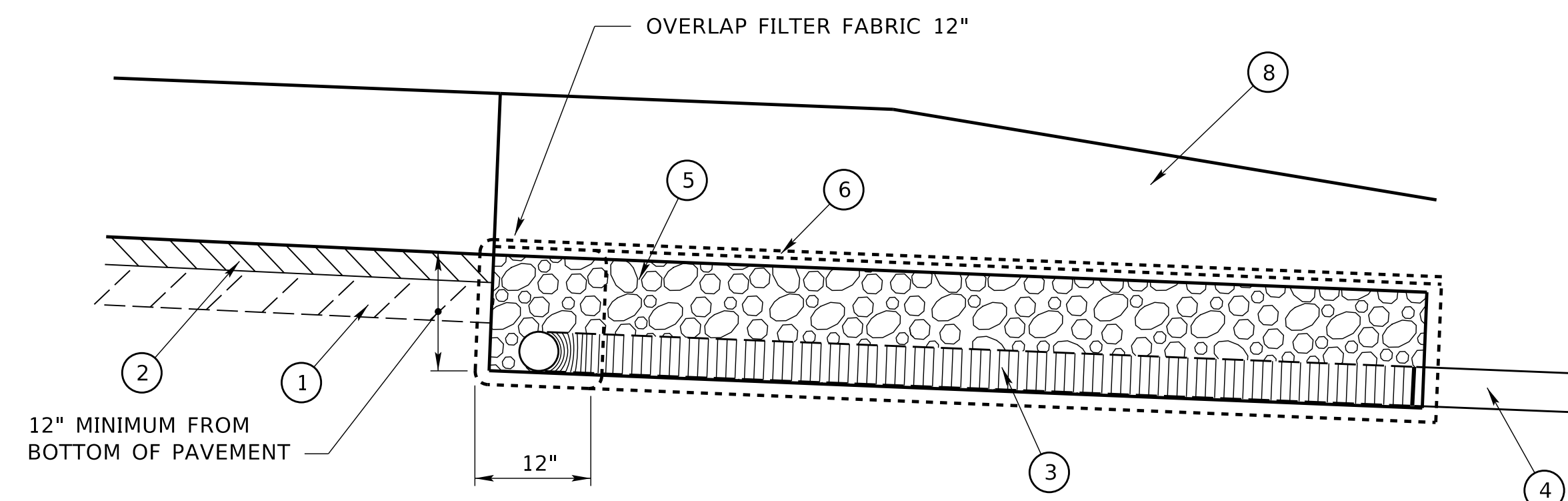


NOTE:
SHOULDER CONSTRUCTION TO BE PERFORMED PRIOR TO CONSTRUCTING PIPE UNDERDRAINS.

- ① SUBGRADE PREPARATION
- ② FOUNDATION COURSE
- ③ 4" PERFORATED PIPE UNDERDRAIN
- ④ 4" NON-PERFORATED PIPE UNDERDRAIN (RIGID)
- ⑤ GRANULAR BACKFILL MATERIAL (SUBSIDIARY)
- ⑥ FILTER FABRIC (SUBSIDIARY)
- ⑦ CONCRETE PAVEMENT
- ⑧ COHESIVE SOIL

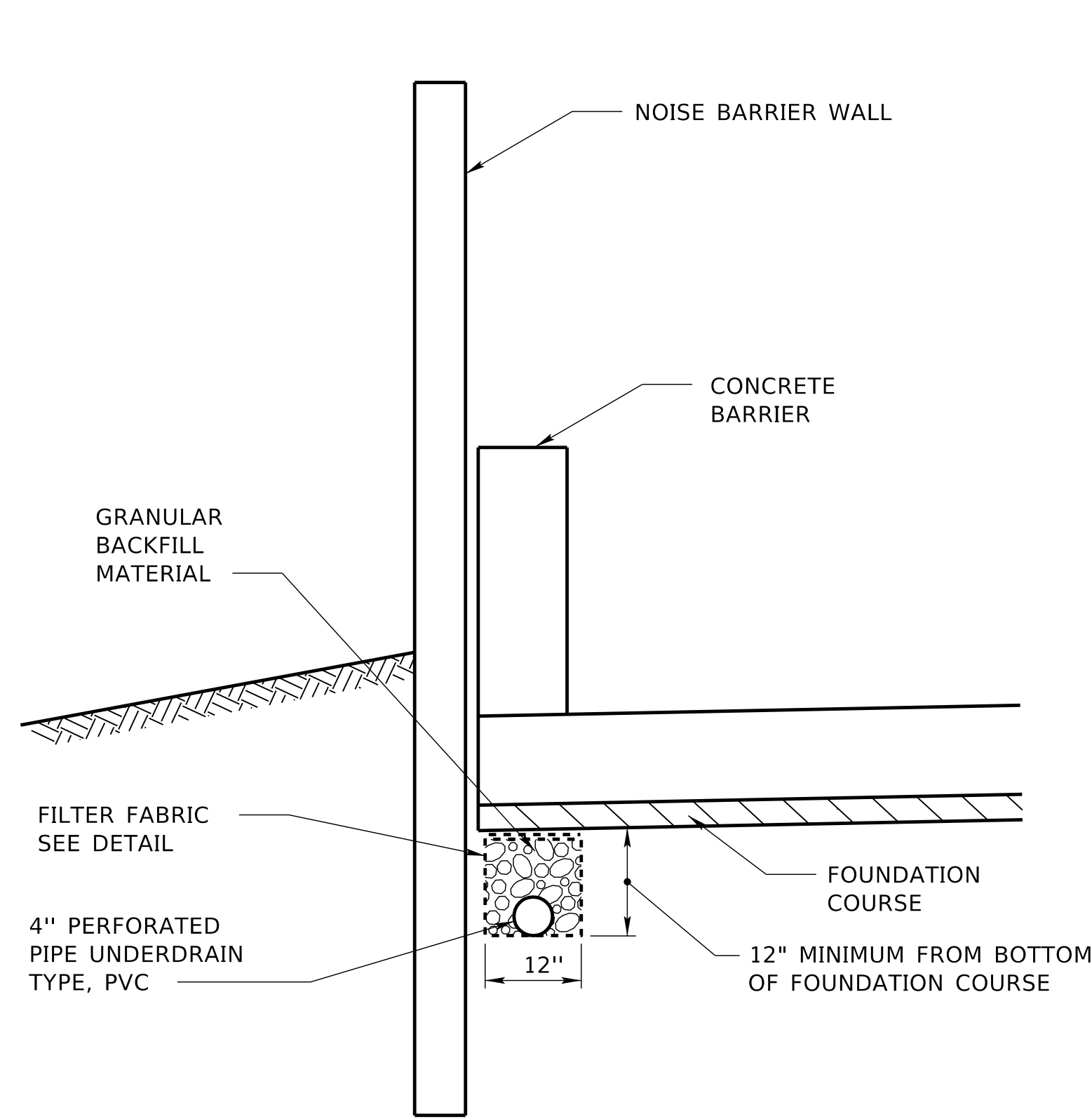


FOUNDATION COURSE AT GUARDRAIL LOCATIONS, SURFACED SHOULDER

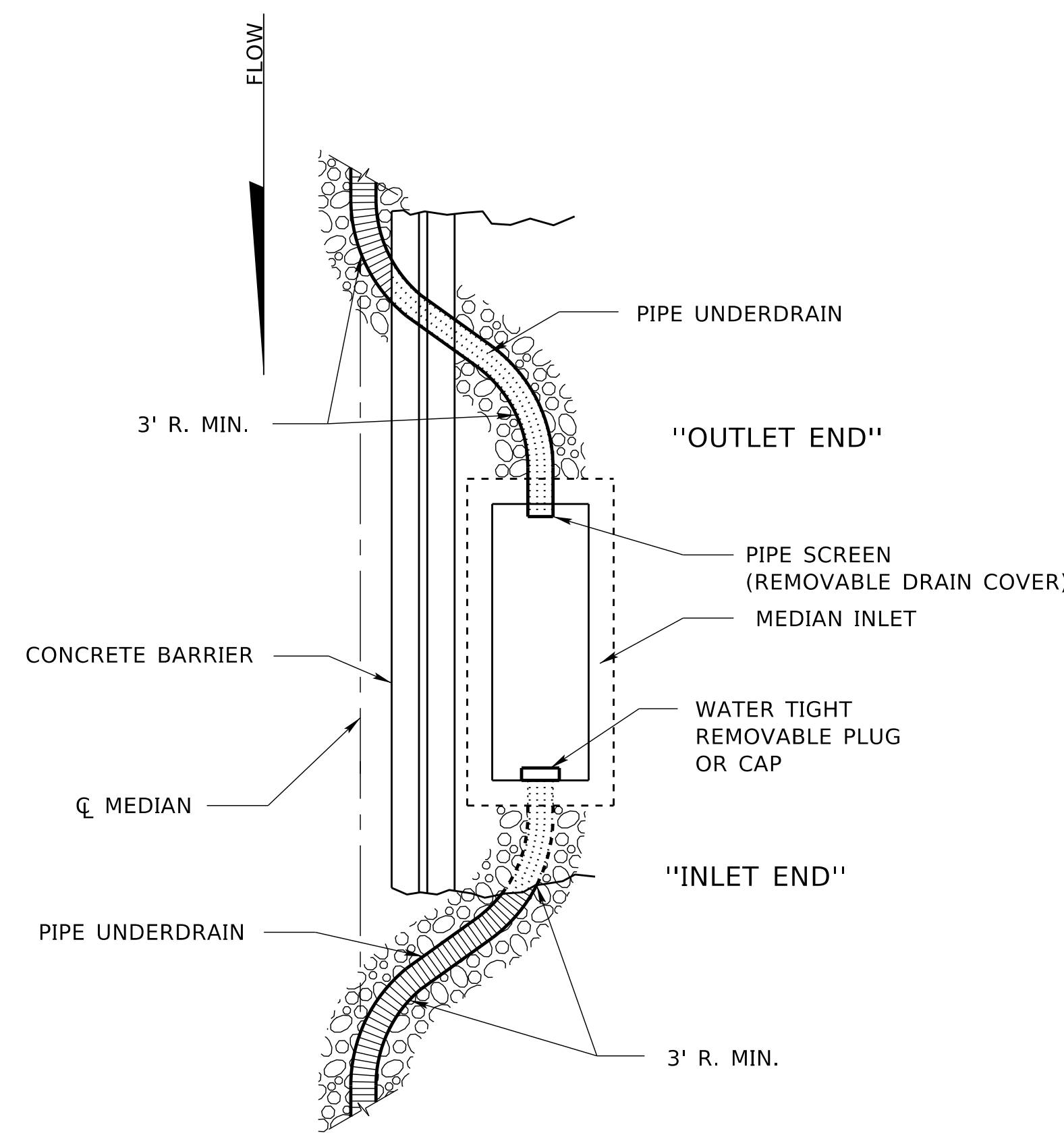


SECTION OF PIPE UNDERDRAIN OUTLET

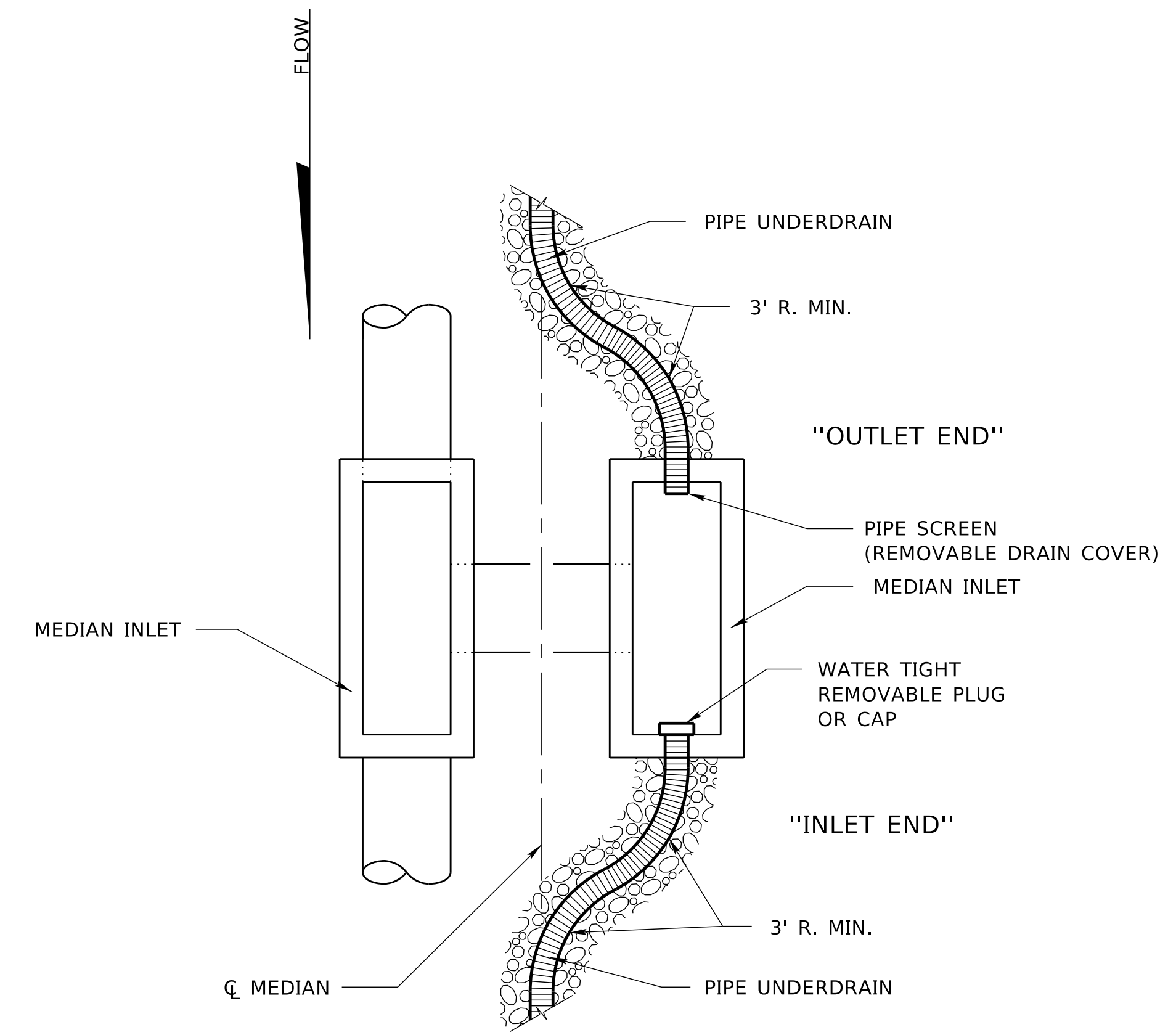
4" PIPE UNDERDRAIN
GENERAL INFORMATION



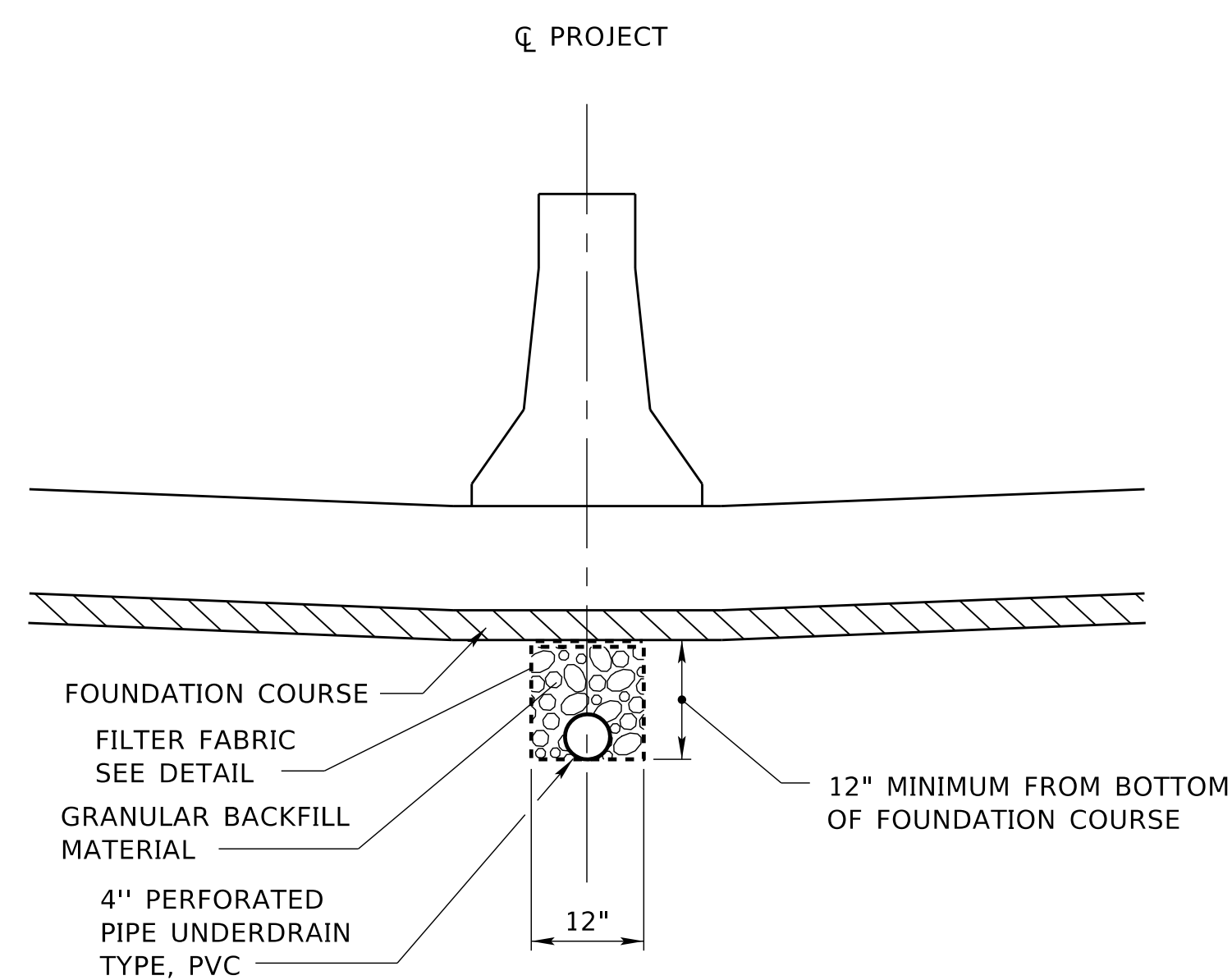
SECTION



PLAN

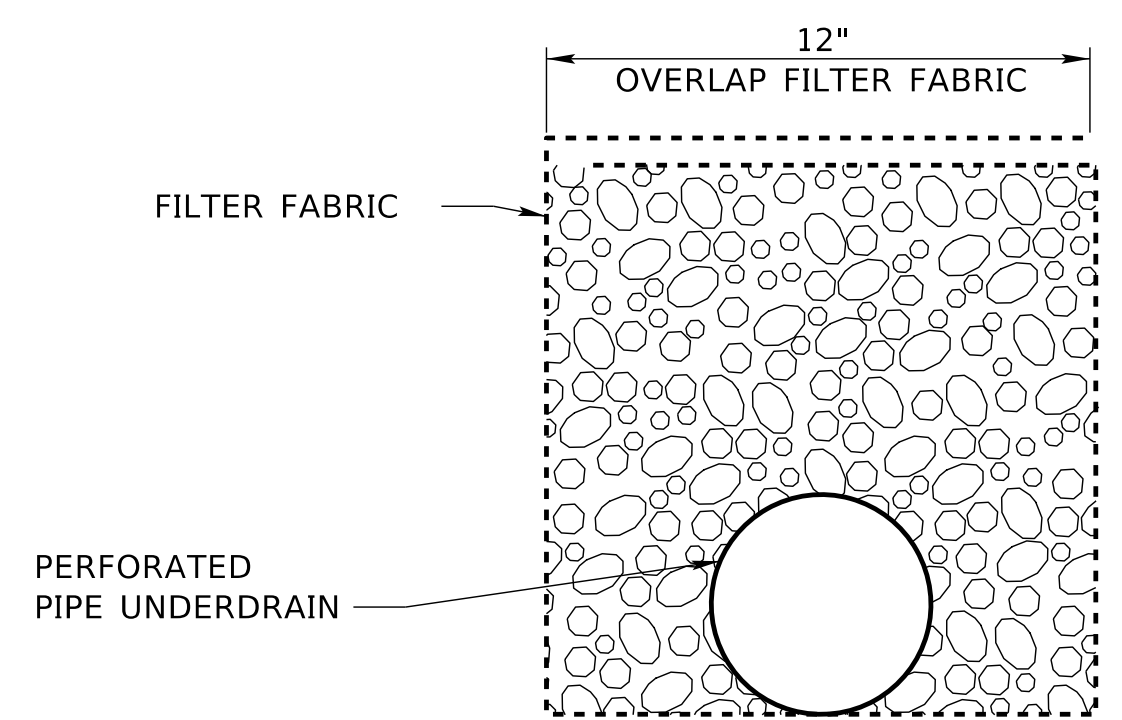


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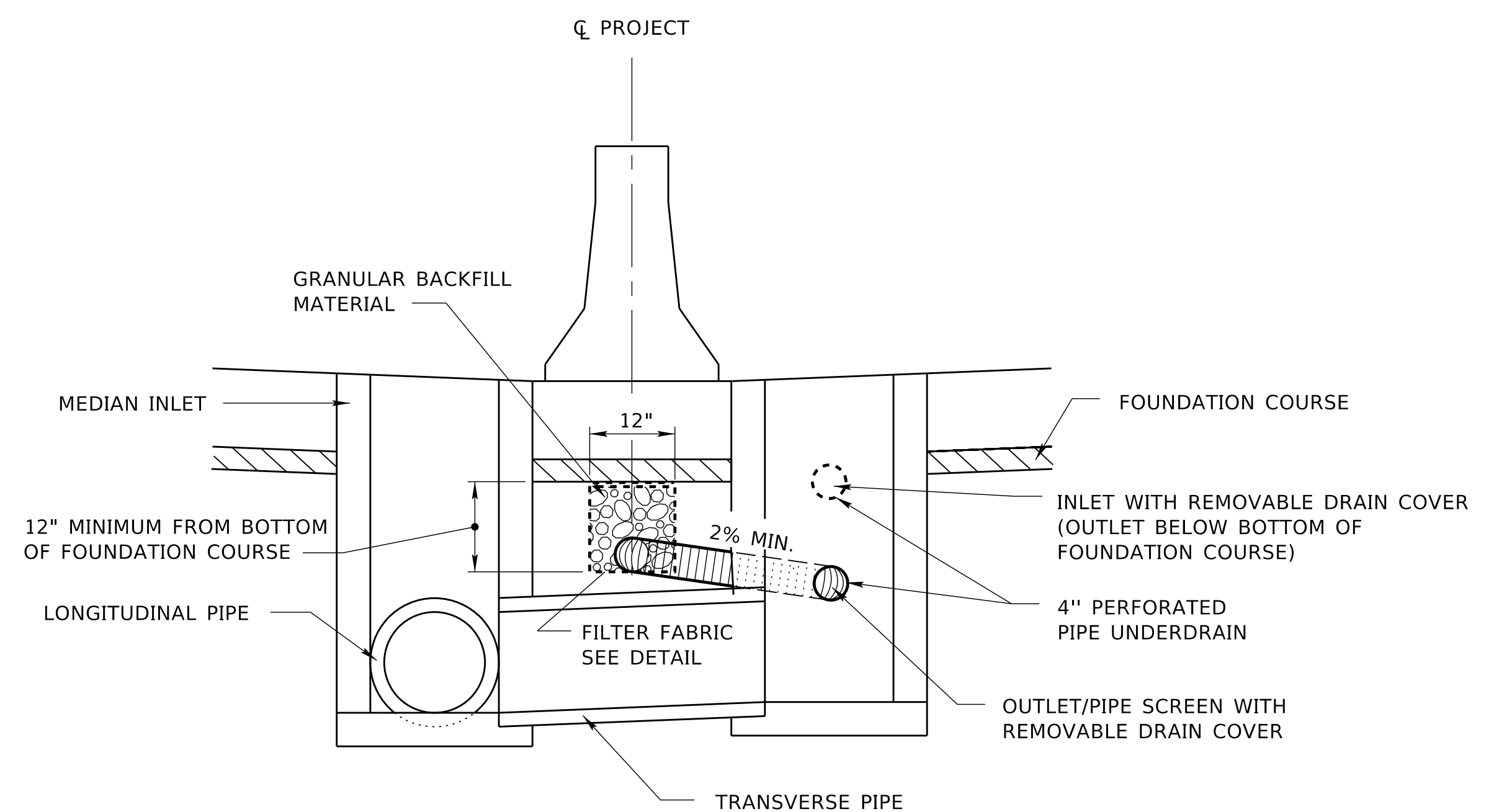


SECTION

DETAILS OF PIPE UNDERDRAIN PLACEMENT



FILTER FABRIC DETAIL



SECTION

DETAILS OF PIPE UNDERDRAIN CONNECTION TO MEDIAN INLETS & GRATE INLETS

4" PIPE UNDERDRAIN
GENERAL INFORMATION

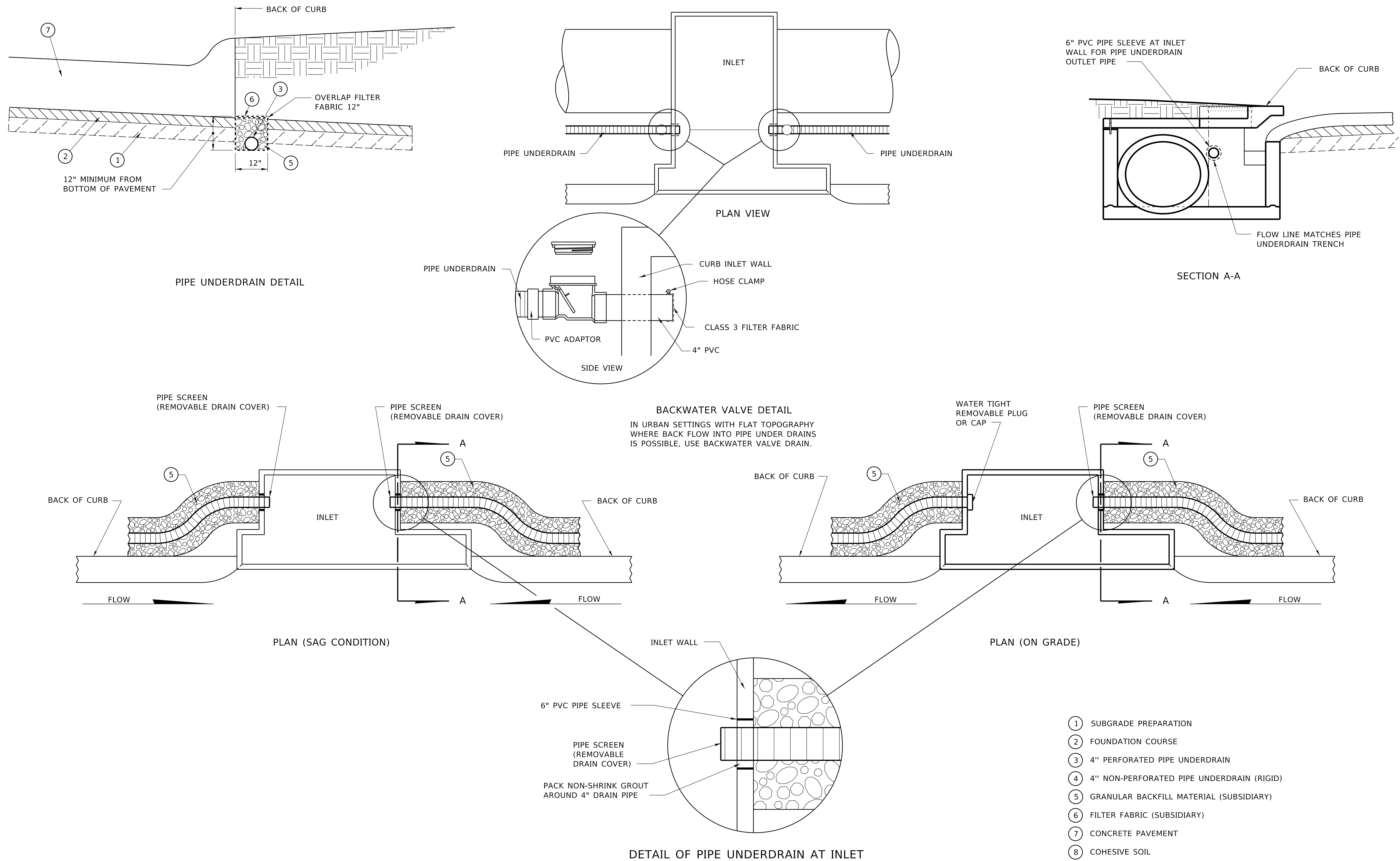
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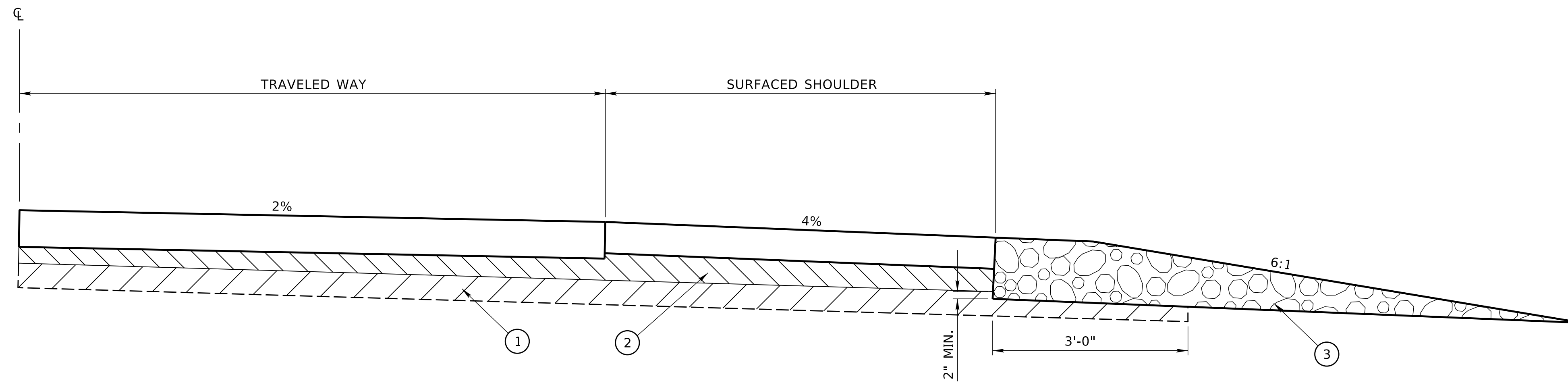
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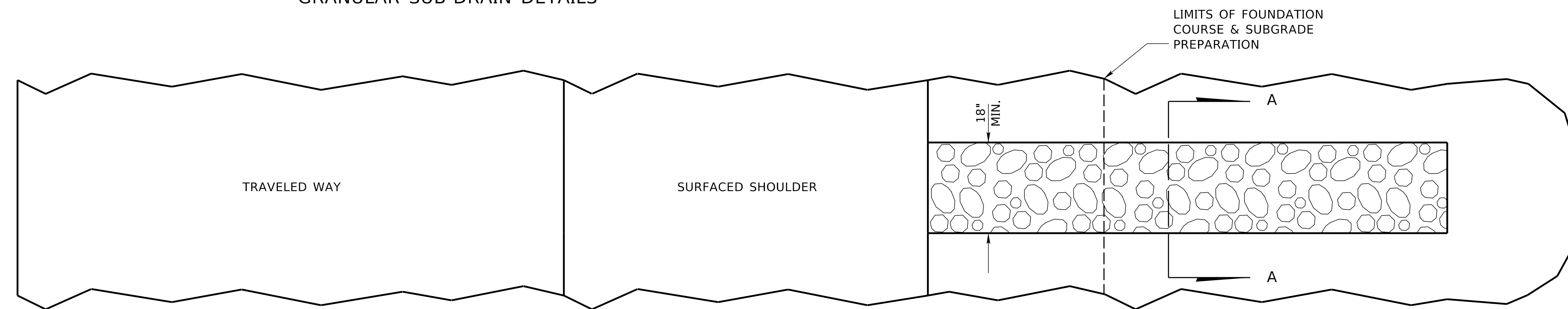
4" PIPE UNDERDRAIN
GENERAL INFORMATION

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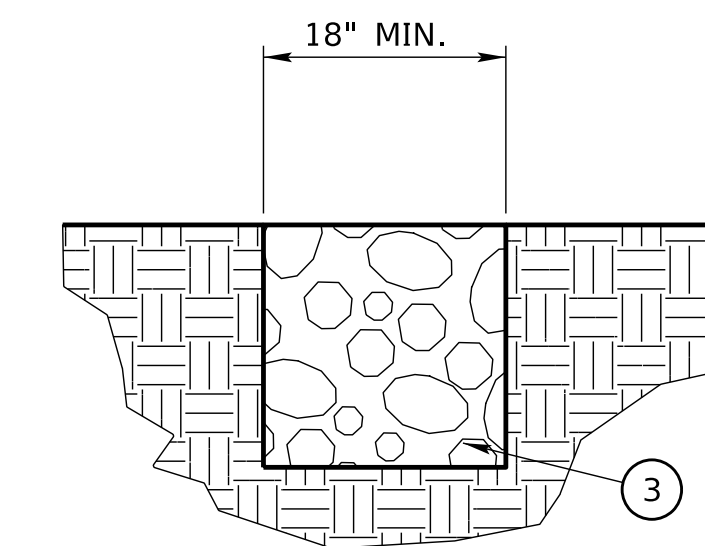
Roadway Design Division



GRANULAR SUB-DRAIN DETAILS



GRANULAR SUB-DRAIN DETAILS



SECTION A-A

- ① SUBGRADE PREPARATION
- ② FOUNDATION COURSE
- ③ GRANULAR BACKFILL MATERIAL (SUBSIDIARY)

CONSTRUCTION NOTES:

THE GRANULAR SUB-DRAIN SHALL BE CONSTRUCTED WITH POSITIVE DRAINAGE.

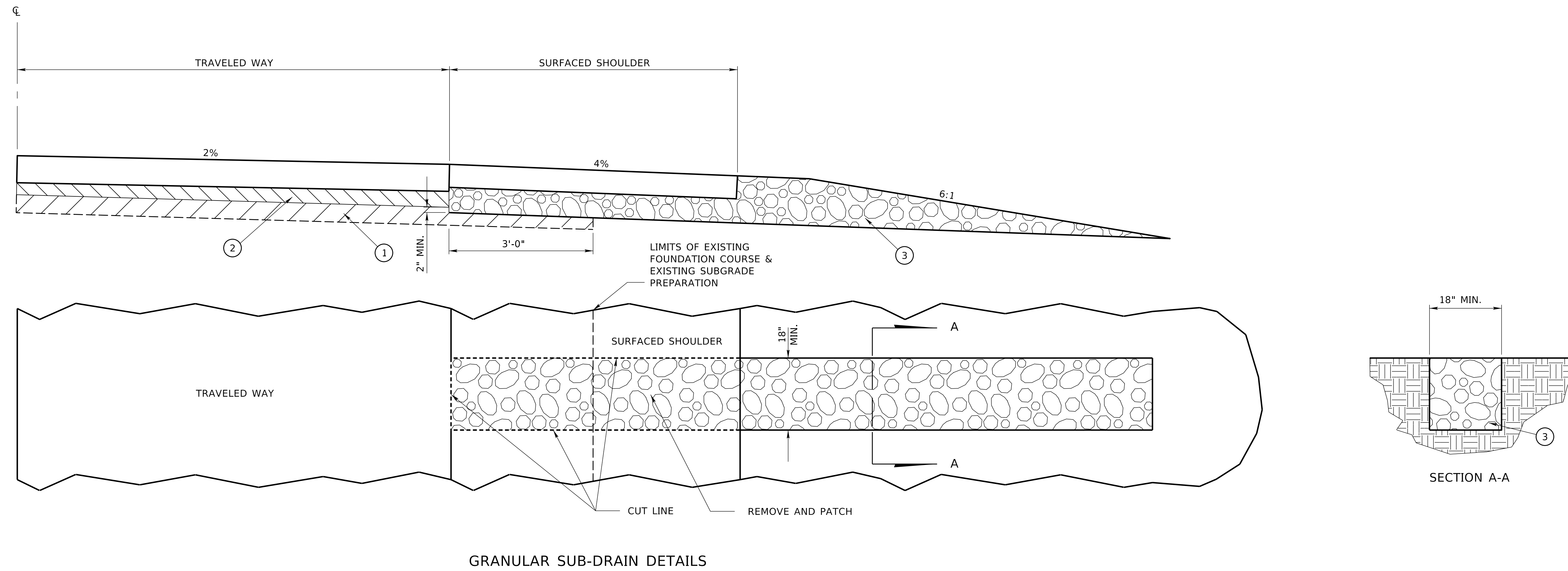
GRANULAR SUB-DRAIN SHALL BE INSTALLED AFTER ALL SHOULDERING & EARTH WORK IS COMPLETED AND PRIOR TO SEEDING.

GRANULAR SUB-DRAINS SHALL BE CONSTRUCTED AT INTERVALS OF 200 FT. WHERE THE GRADE IS 1% OR OVER AND AT INTERVALS OF 100 FT. ON GRADES UNDER 1%.

GRANULAR SUB-DRAINS SHALL BE BUILT PERPENDICULAR TO THE CENTER LINE.

| BUILD GRANULAR SUB-DRAIN | | | | | |
|--------------------------|----|---------|------|------|---------|
| STATION | TO | STATION | SIDE | EACH | SPACING |
| * | - | * | * | * | * |

GRANULAR SUB-DRAIN DETAILS
GENERAL INFORMATION



- ① SUBGRADE PREPARATION
- ② FOUNDATION COURSE
- ③ GRANULAR BACKFILL MATERIAL (SUBSIDIARY)

CONSTRUCTION NOTES:

THE GRANULAR SUB-DRAIN SHALL BE CONSTRUCTED WITH POSITIVE DRAINAGE.

GRANULAR SUB-DRAIN SHALL BE INSTALLED AFTER ALL SHOULDERING & EARTH WORK IS COMPLETED AND PRIOR TO SEEDING.

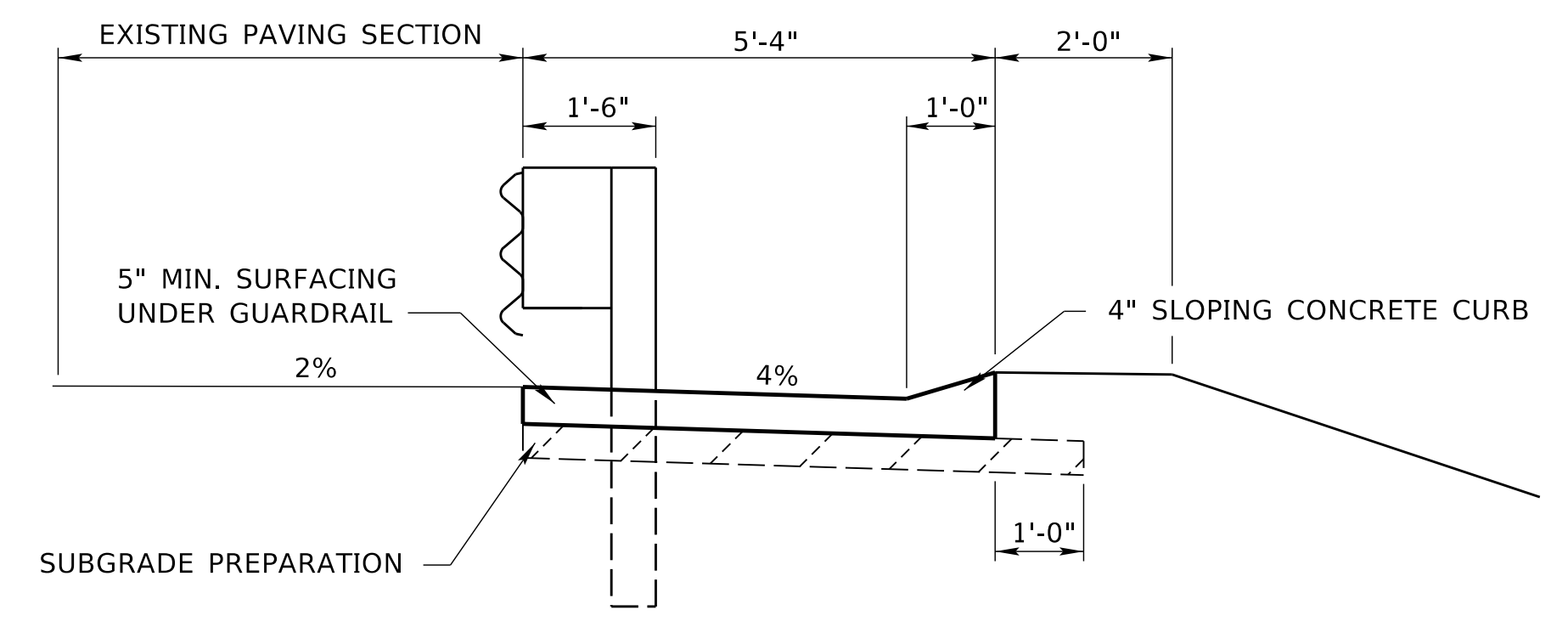
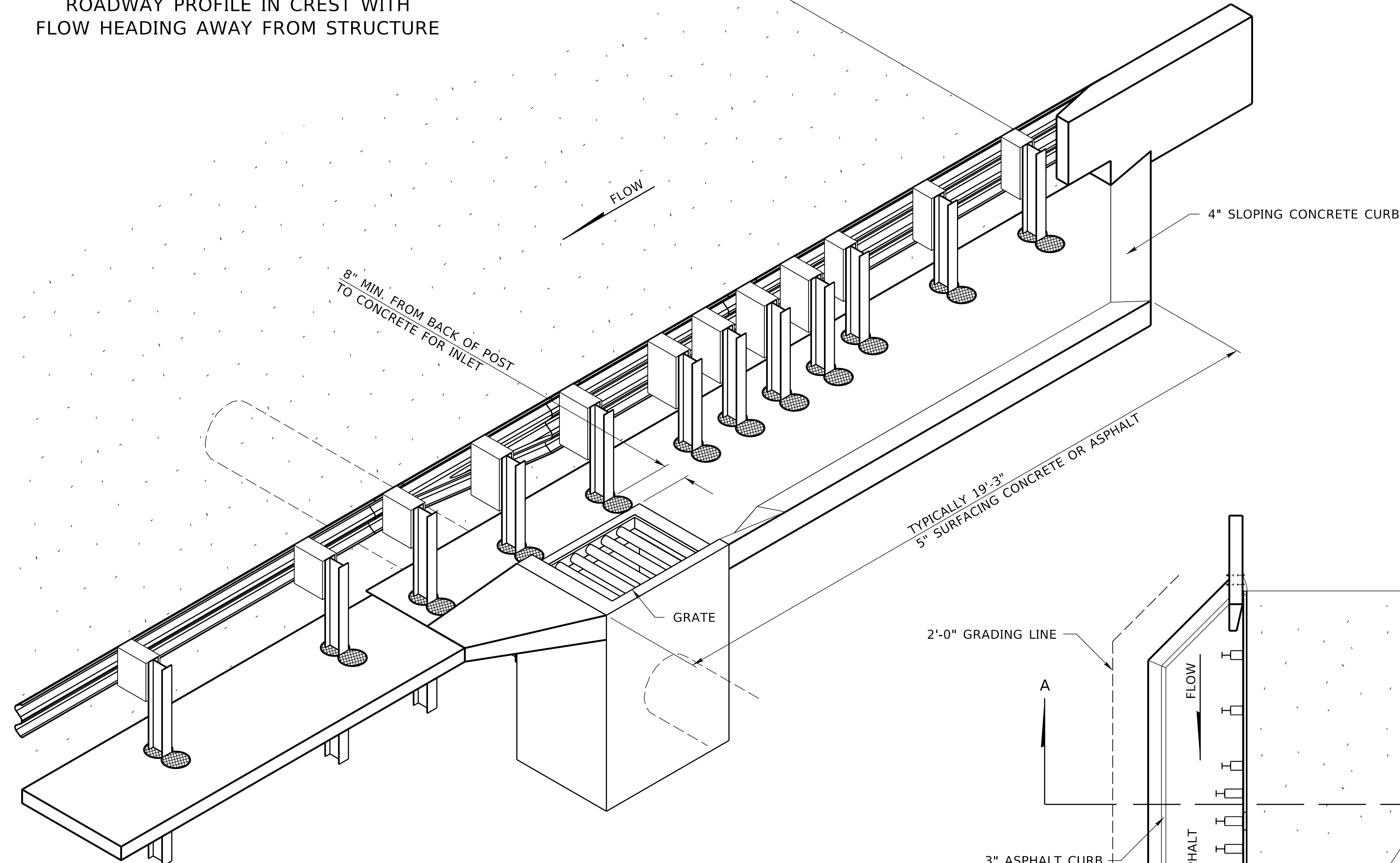
GRANULAR SUB-DRAINS SHALL BE CONSTRUCTED AT INTERVALS OF 200 FT. WHERE THE GRADE IS 1% OR OVER AND AT INTERVALS OF 100 FT. ON GRADES UNDER 1%.

GRANULAR SUB-DRAINS SHALL BE BUILT PERPENDICULAR TO THE CENTER LINE.

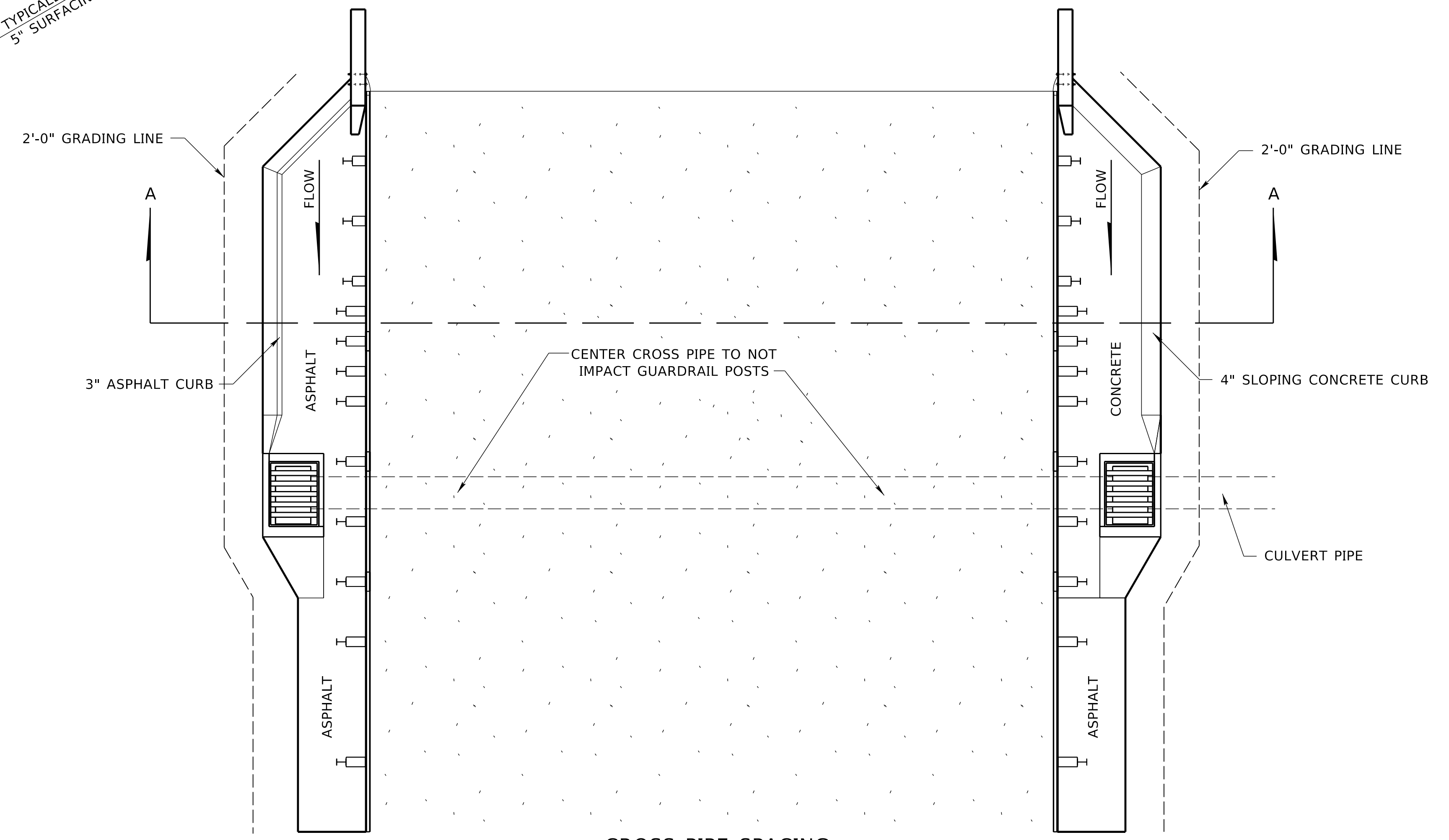
| BUILD GRANULAR SUB-DRAIN | | | | | |
|--------------------------|----|---------|------|------|---------|
| STATION | TO | STATION | SIDE | EACH | SPACING |
| * | - | * | * | * | * |

GRANULAR SUB-DRAIN DETAILS
GENERAL INFORMATION

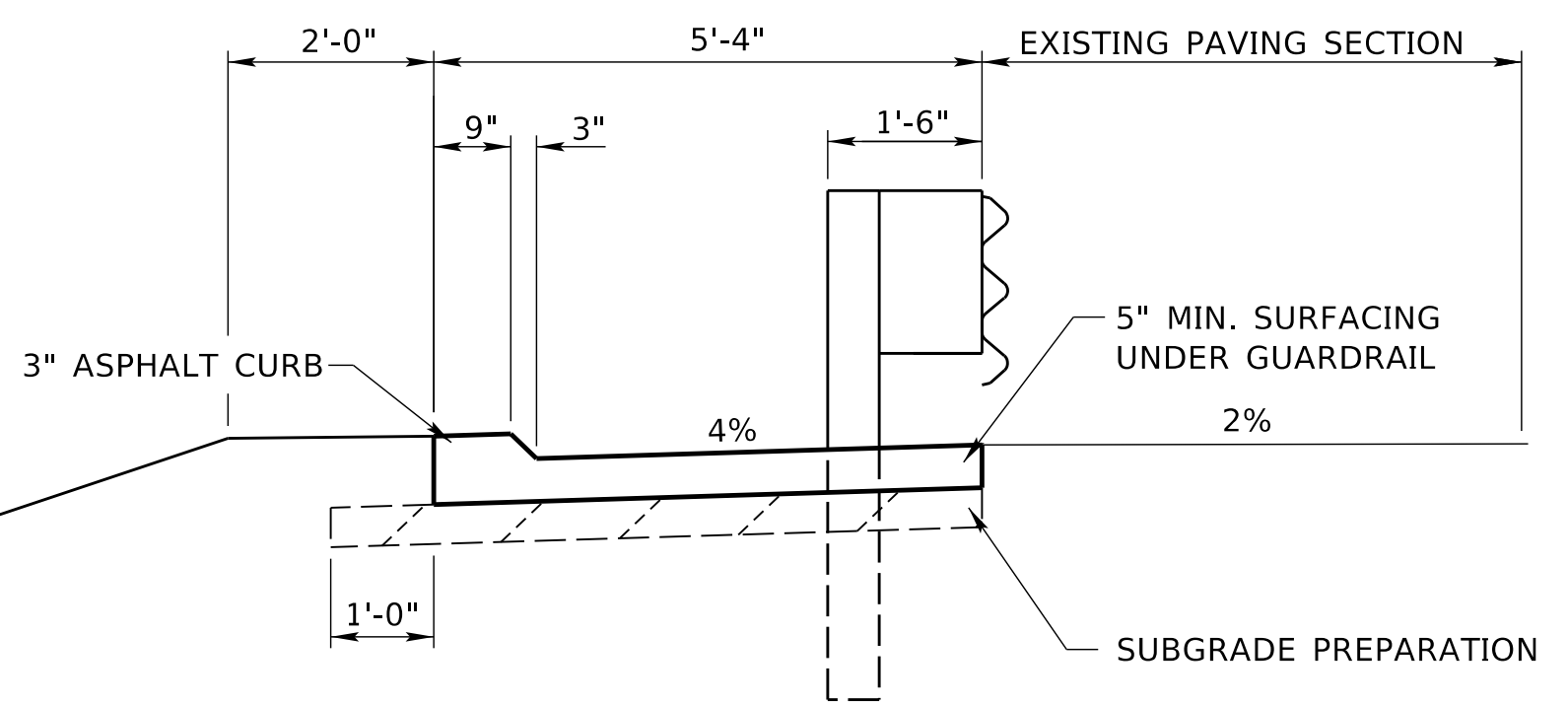
ROADWAY PROFILE IN CREST WITH
FLOW HEADING AWAY FROM STRUCTURE



SECTION A-A



CROSS PIPE SPACING



SECTION A-A

BRIDGE INLET BEHIND GUARDRAIL FOR CREST CONDITION

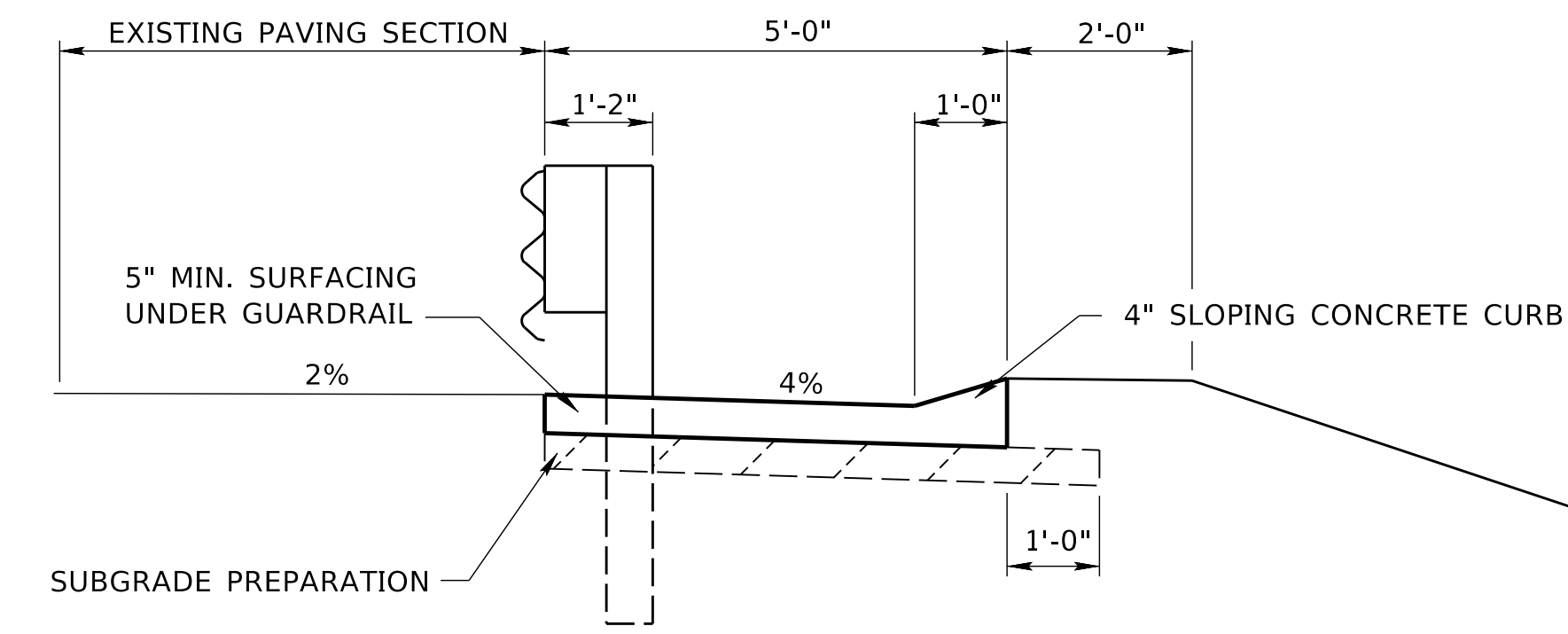
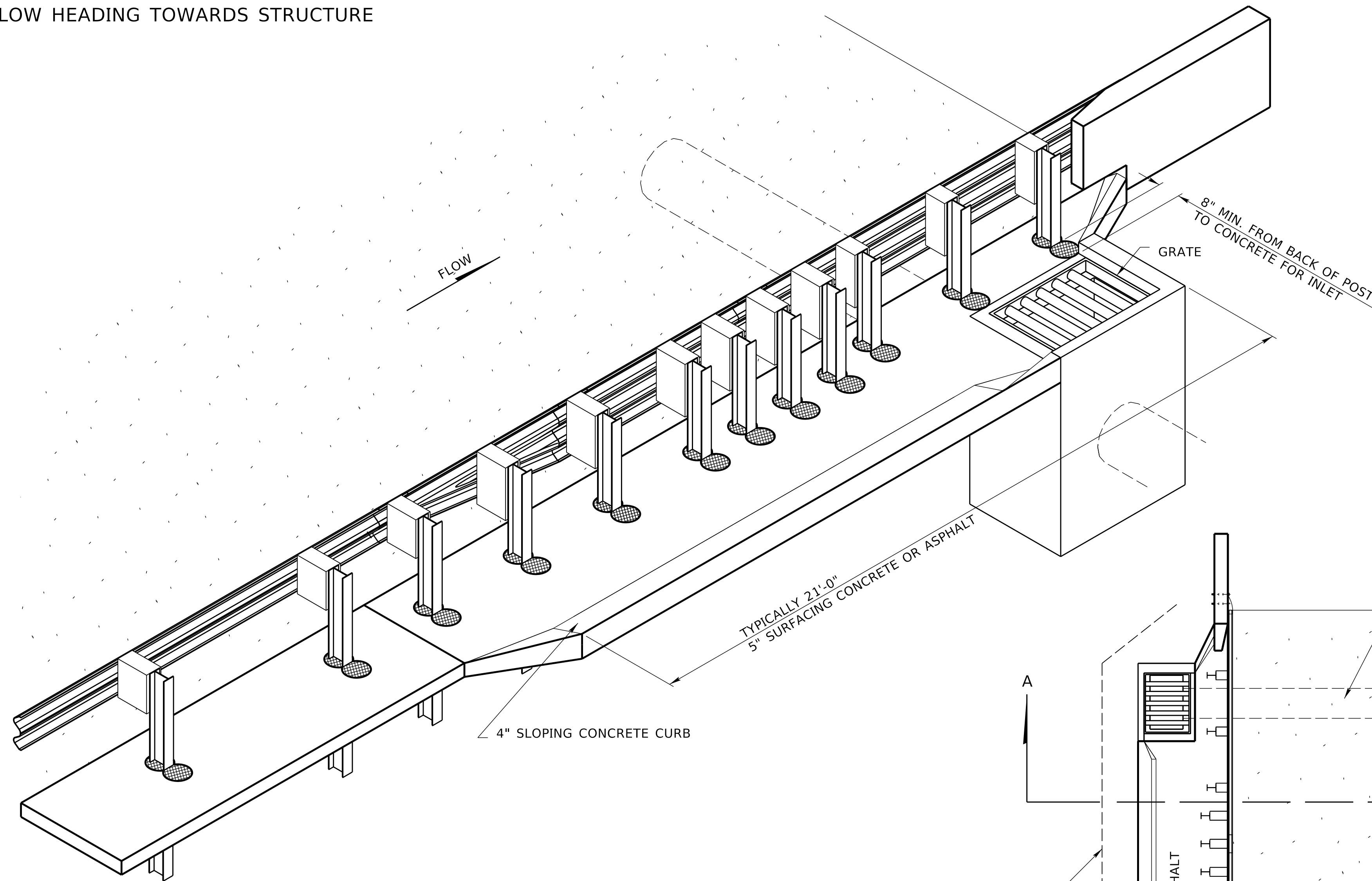
APPROACH SLAB DRAINAGE INLET
GENERAL INFORMATION

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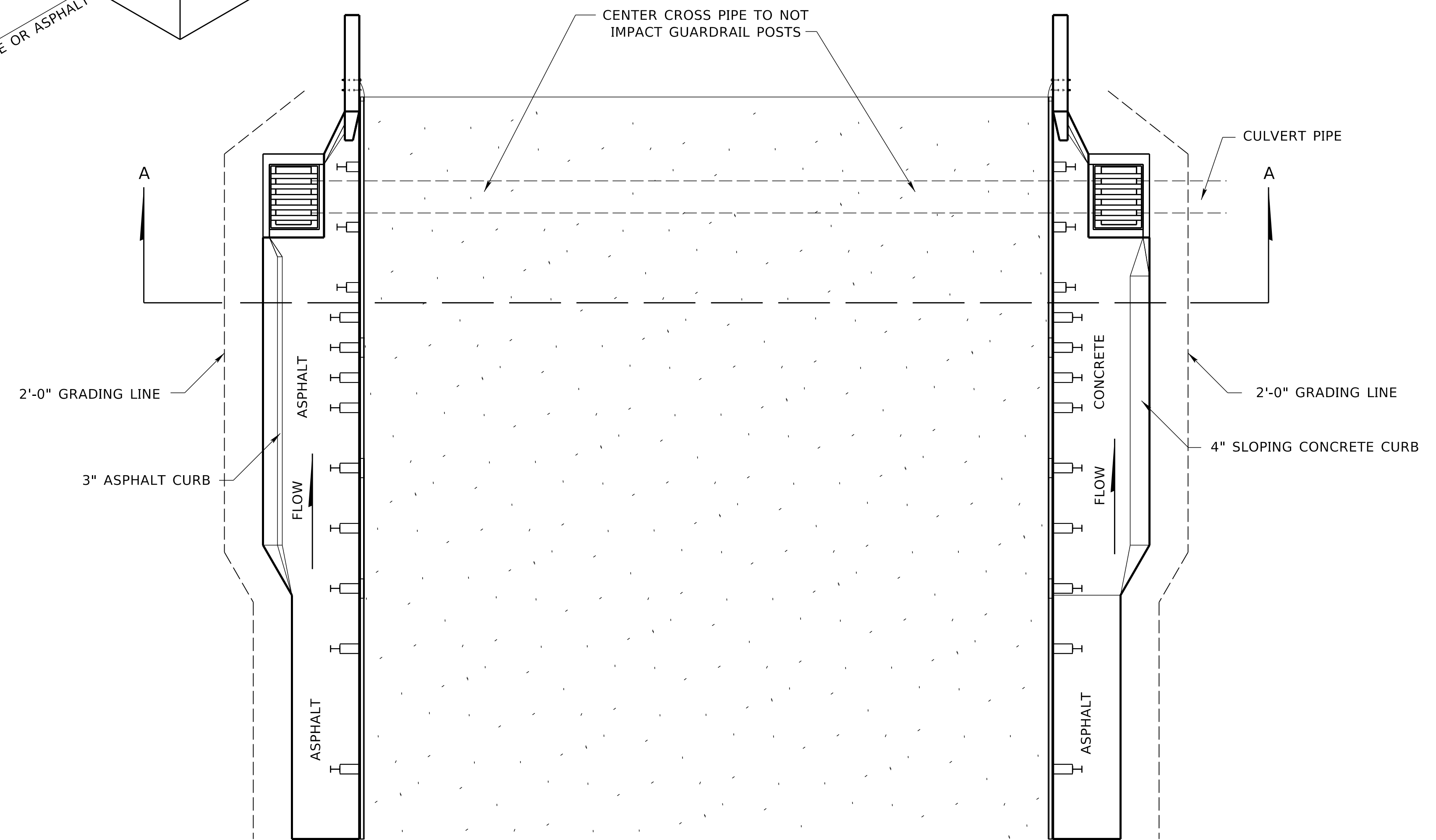
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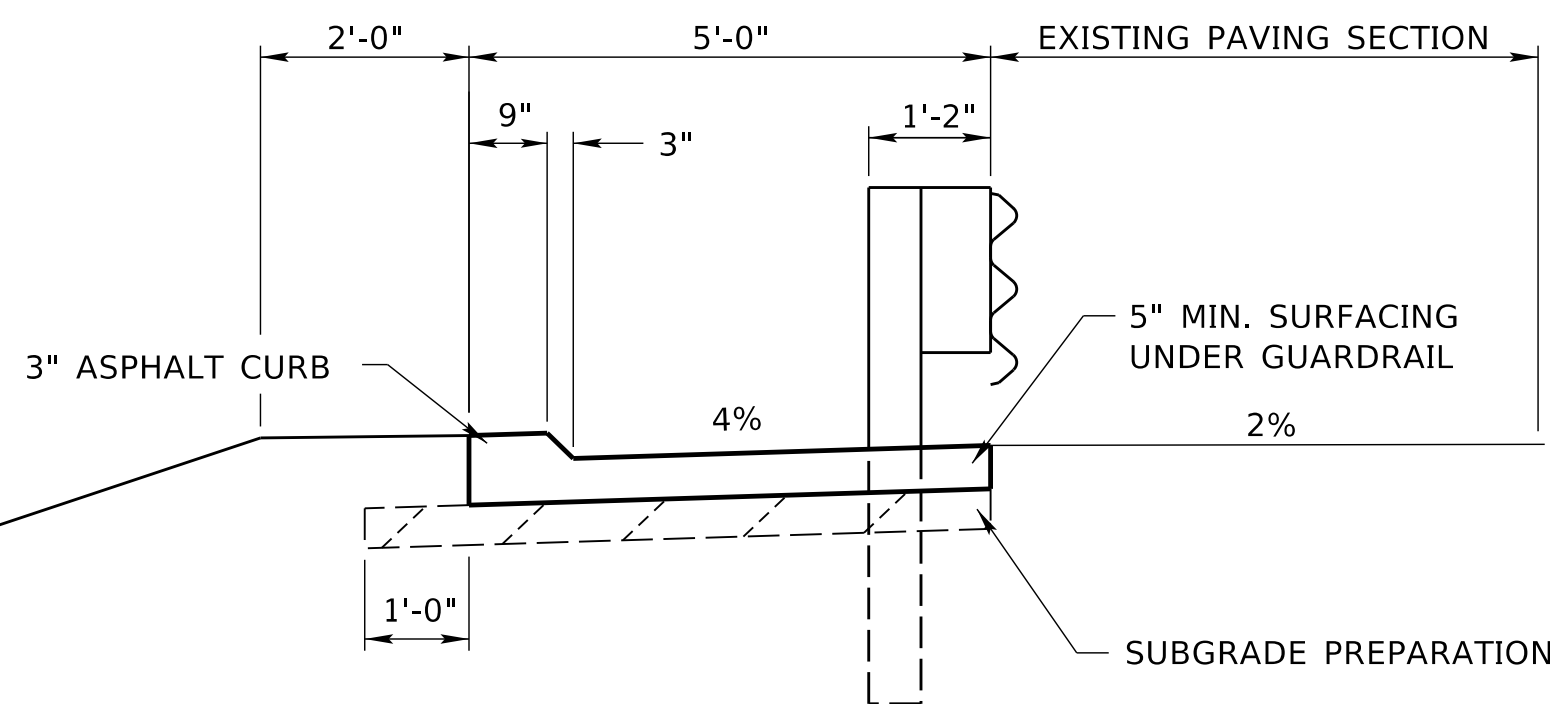
ROADWAY PROFILE IN SAG WITH
FLOW HEADING TOWARDS STRUCTURE



SECTION A-A



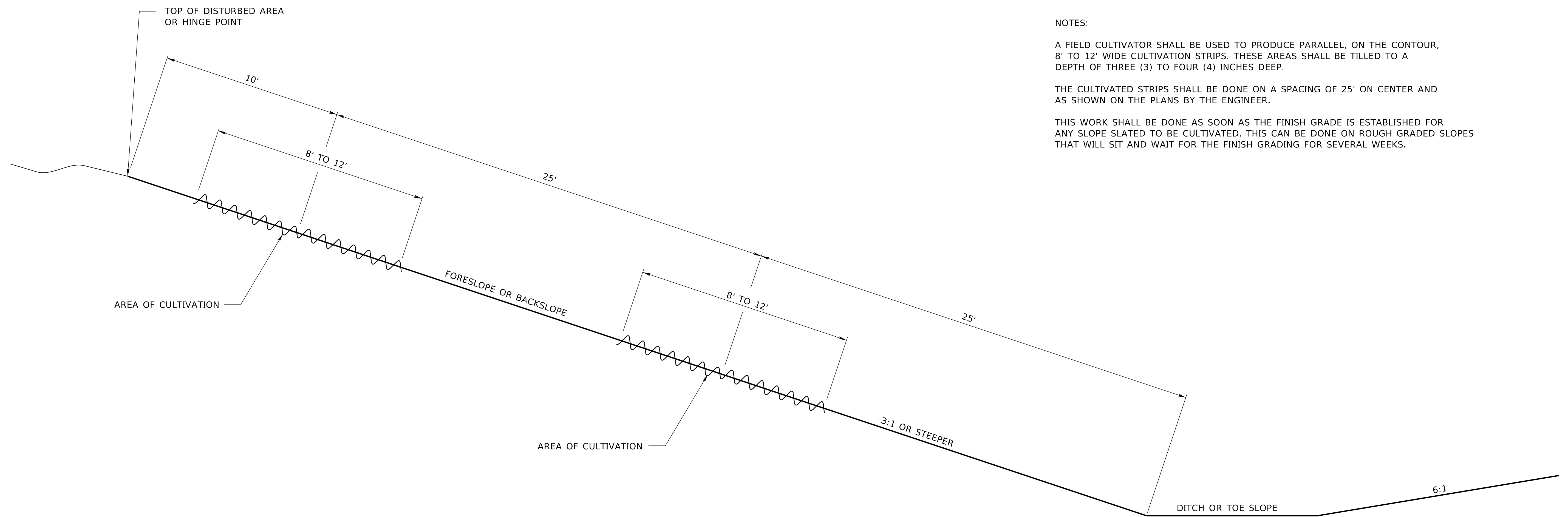
CROSS PIPE SPACING



SECTION A-A

BRIDGE INLET BEHIND GUARDRAIL FOR SAG CONDITION

APPROACH SLAB DRAINAGE INLET
GENERAL INFORMATION



NOTES:

A FIELD CULTIVATOR SHALL BE USED TO PRODUCE PARALLEL, ON THE CONTOUR, 8' TO 12' WIDE CULTIVATION STRIPS. THESE AREAS SHALL BE TILLED TO A DEPTH OF THREE (3) TO FOUR (4) INCHES DEEP.

THE CULTIVATED STRIPS SHALL BE DONE ON A SPACING OF 25' ON CENTER AND AS SHOWN ON THE PLANS BY THE ENGINEER.

THIS WORK SHALL BE DONE AS SOON AS THE FINISH GRADE IS ESTABLISHED FOR ANY SLOPE SLATED TO BE CULTIVATED. THIS CAN BE DONE ON ROUGH GRADED SLOPES THAT WILL SIT AND WAIT FOR THE FINISH GRADING FOR SEVERAL WEEKS.

COMPUTER: BG0419M187

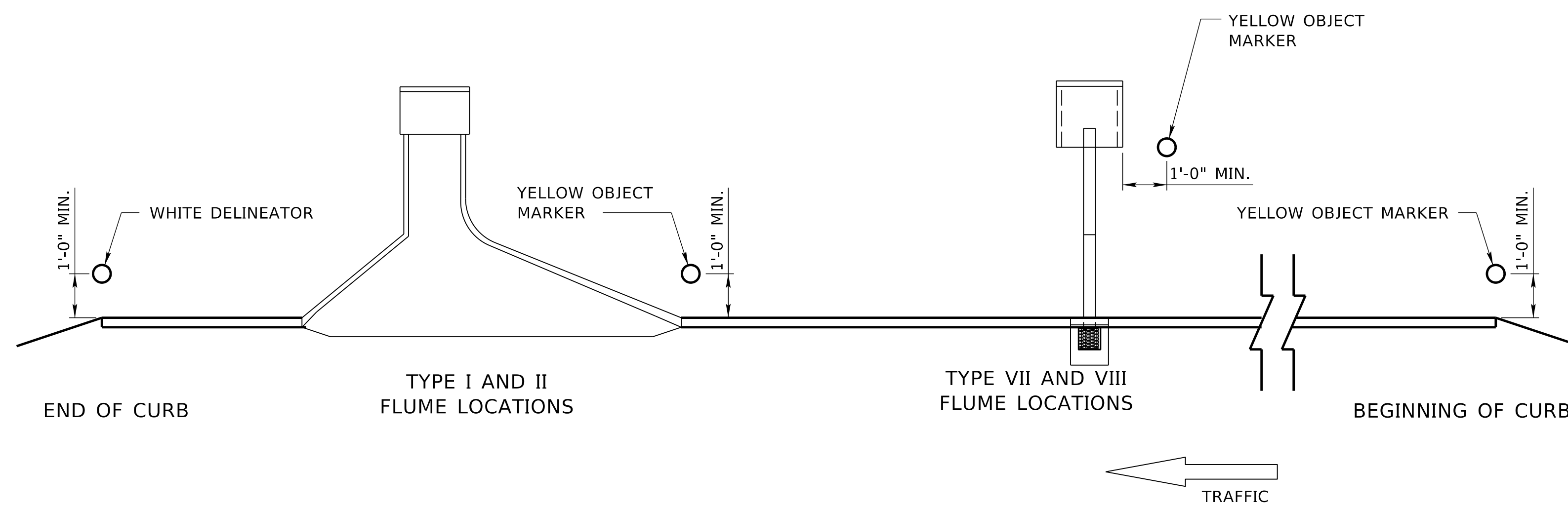
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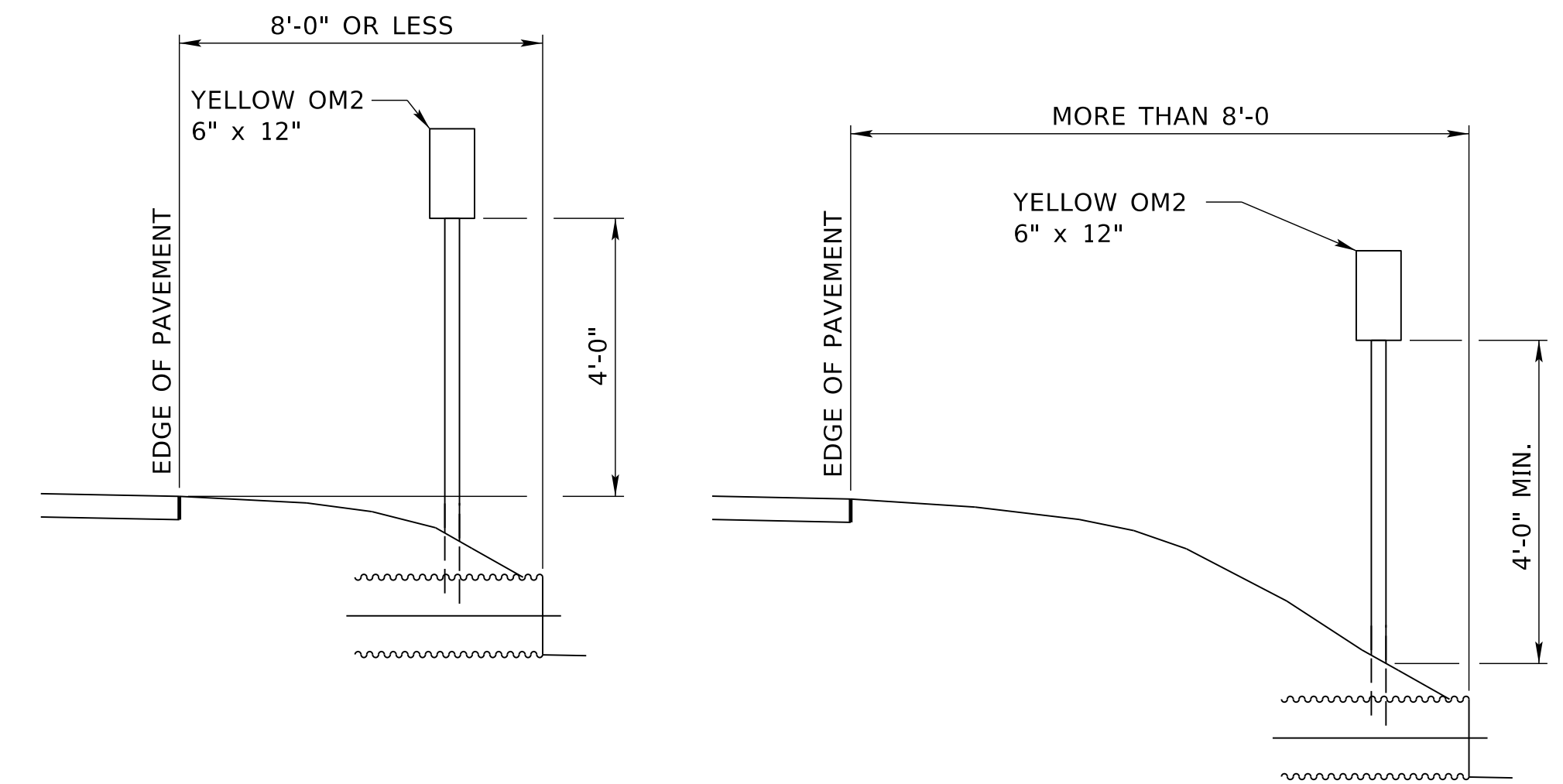
CONTOUR CULTIVATION
GENERAL INFORMATION

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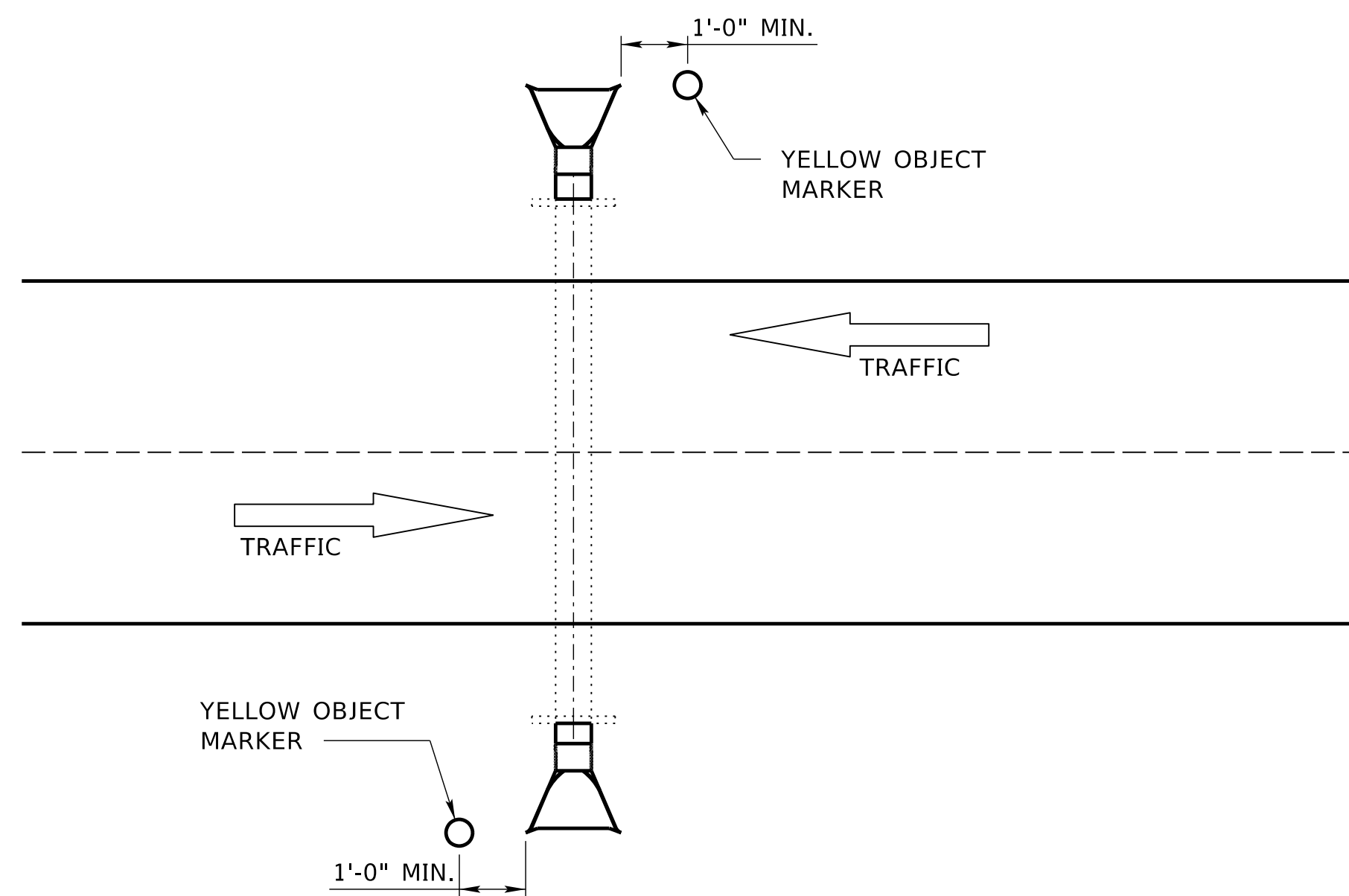
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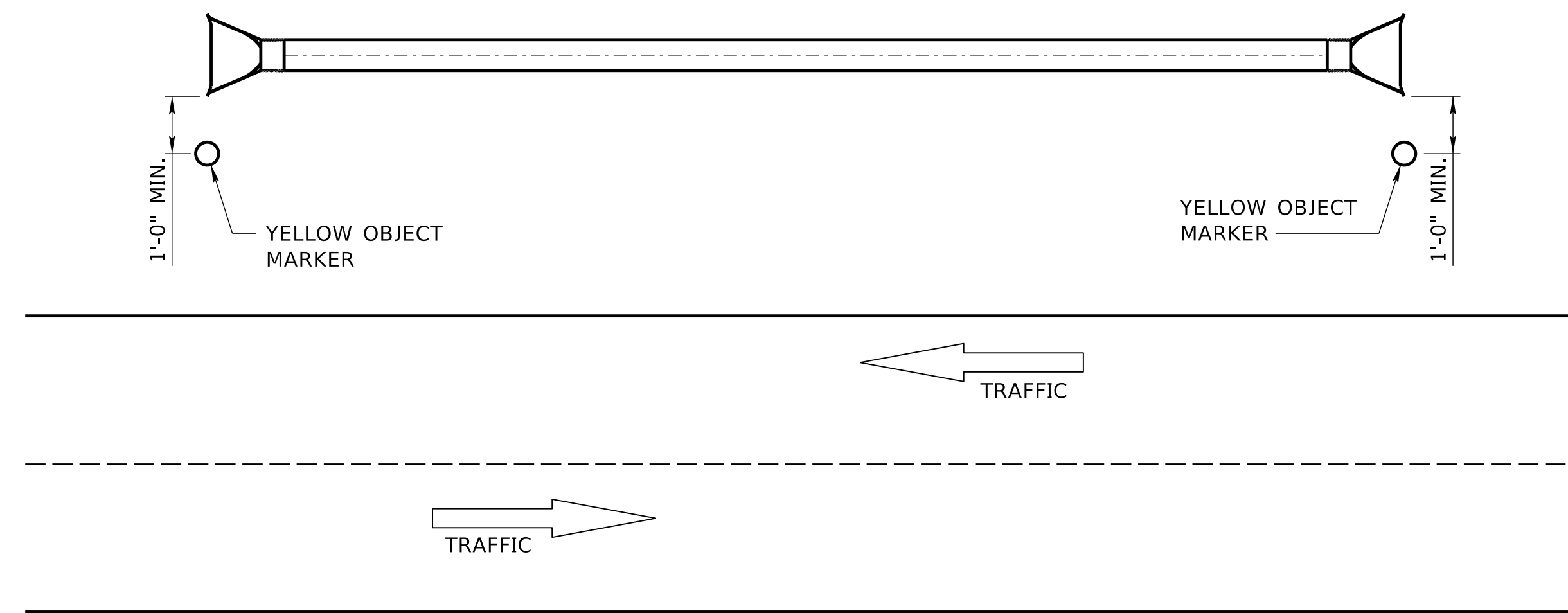
TYPICAL OBJECT MARKER AT CURB & FLUME LOCATIONS



MARKER HEIGHT
MARKER HEIGHT DEPENDS ON OBJECT
DISTANCE FROM EDGE OF ROADWAY



TYPICAL OBJECT MARKER AT CULVERT LOCATIONS



TYPICAL OBJECT MARKER AT PARALLEL CULVERT LOCATIONS

OBJECT MARKERS
GENERAL INFORMATION

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Roadway Design Division
1500 Nebraska Parkway
Lincoln, NE 68502
Office: 402-479-4601

COMPUTER: BG0419M187

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