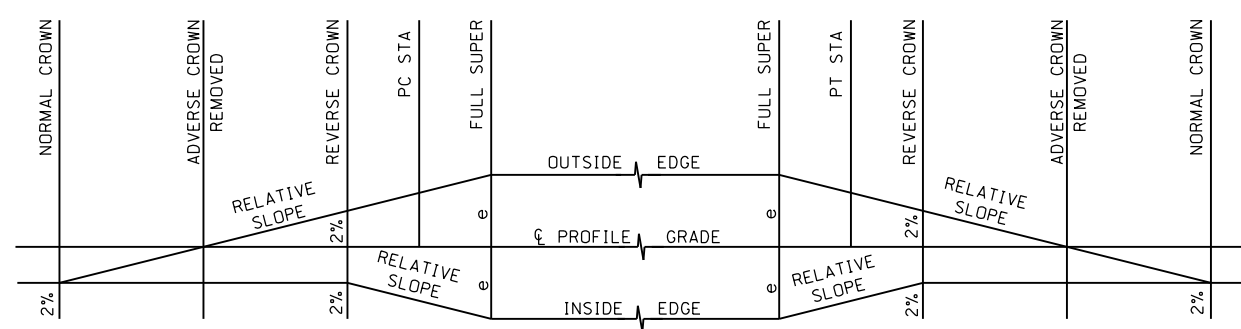


Information Table of Contents

June 1, 2023

Plan No.	Title	Comments
1000 3 R0	Superelevation Diagram	
3010 3 R1	Phasing for Concrete Island	JUNE 2023 - Revision
4000 3 R0	Minimum Backfill For Traffic	
4300 3 R2	4" Pipe Underdrain	JUNE 2023 - Revision
4310 3 R0	Granular Sub-Drain Details	
4335 3 R3	Approach Slab Drainage Inlet	
5000 3 R0	Contour Cultivation	

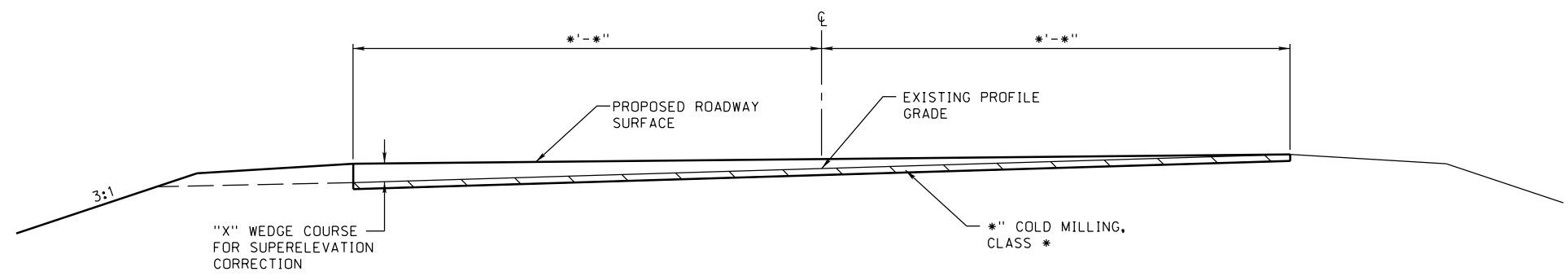
GENERAL INFORMATION



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

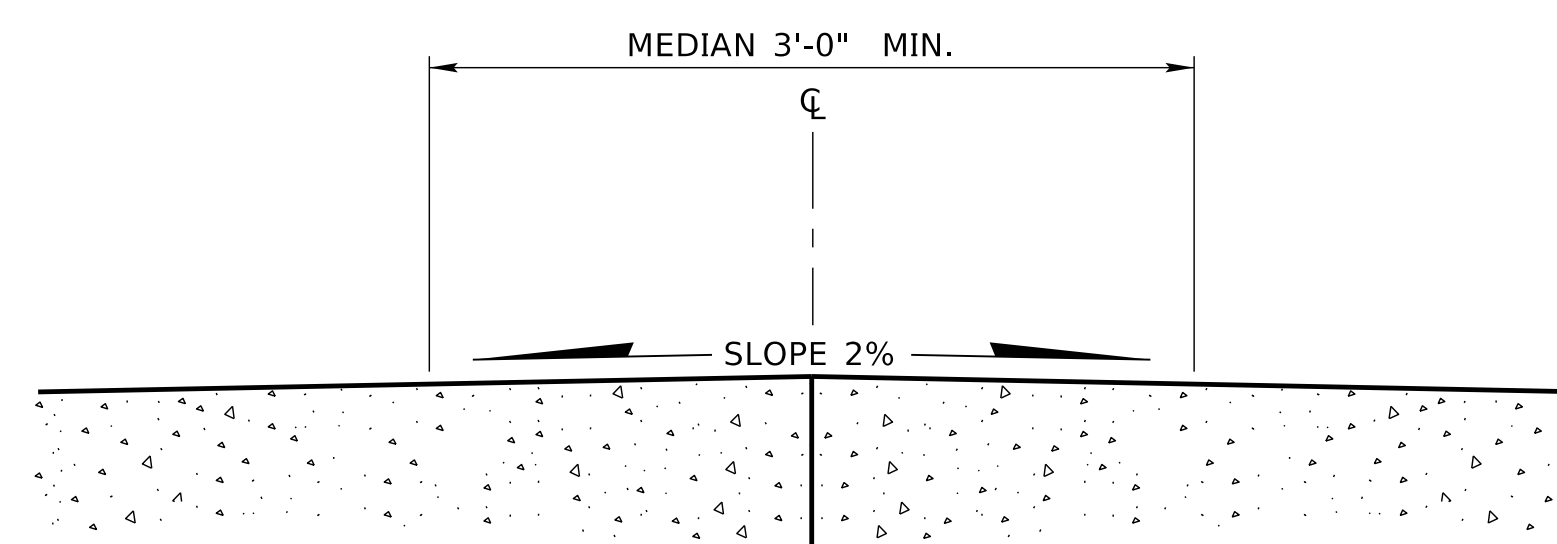
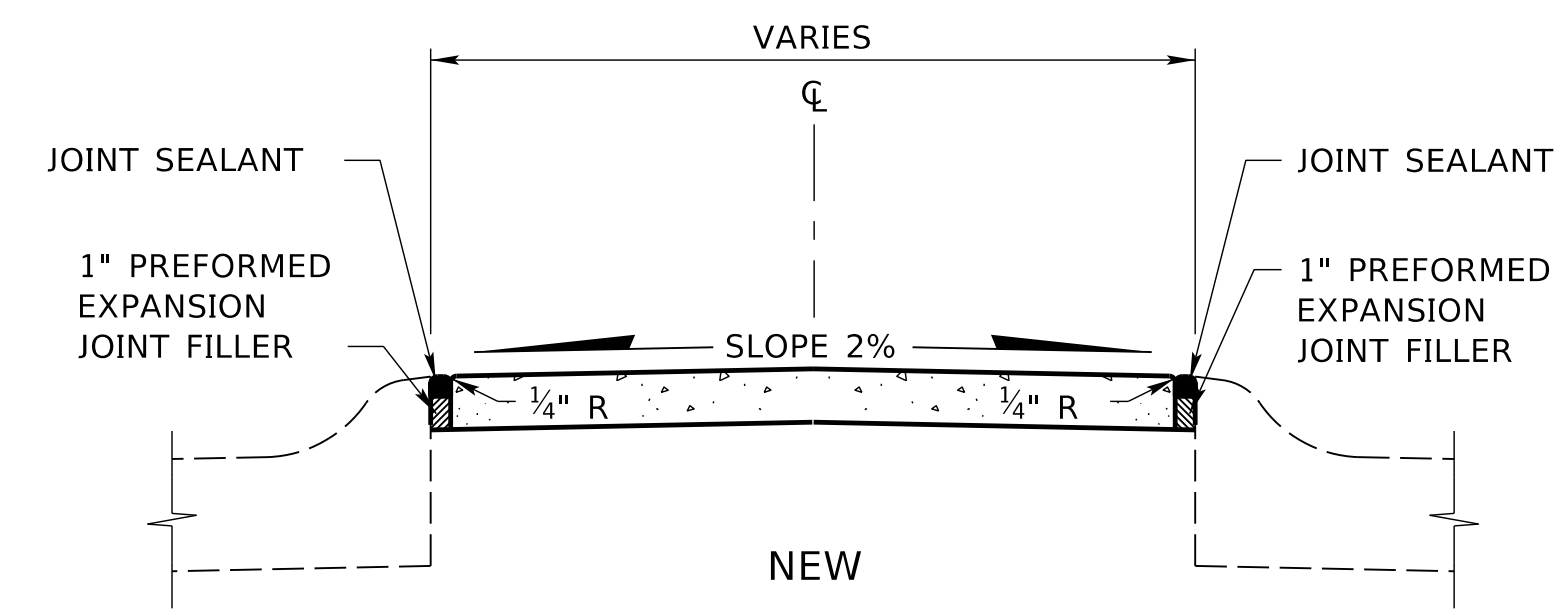
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ROADWAY DESIGN DIVISION

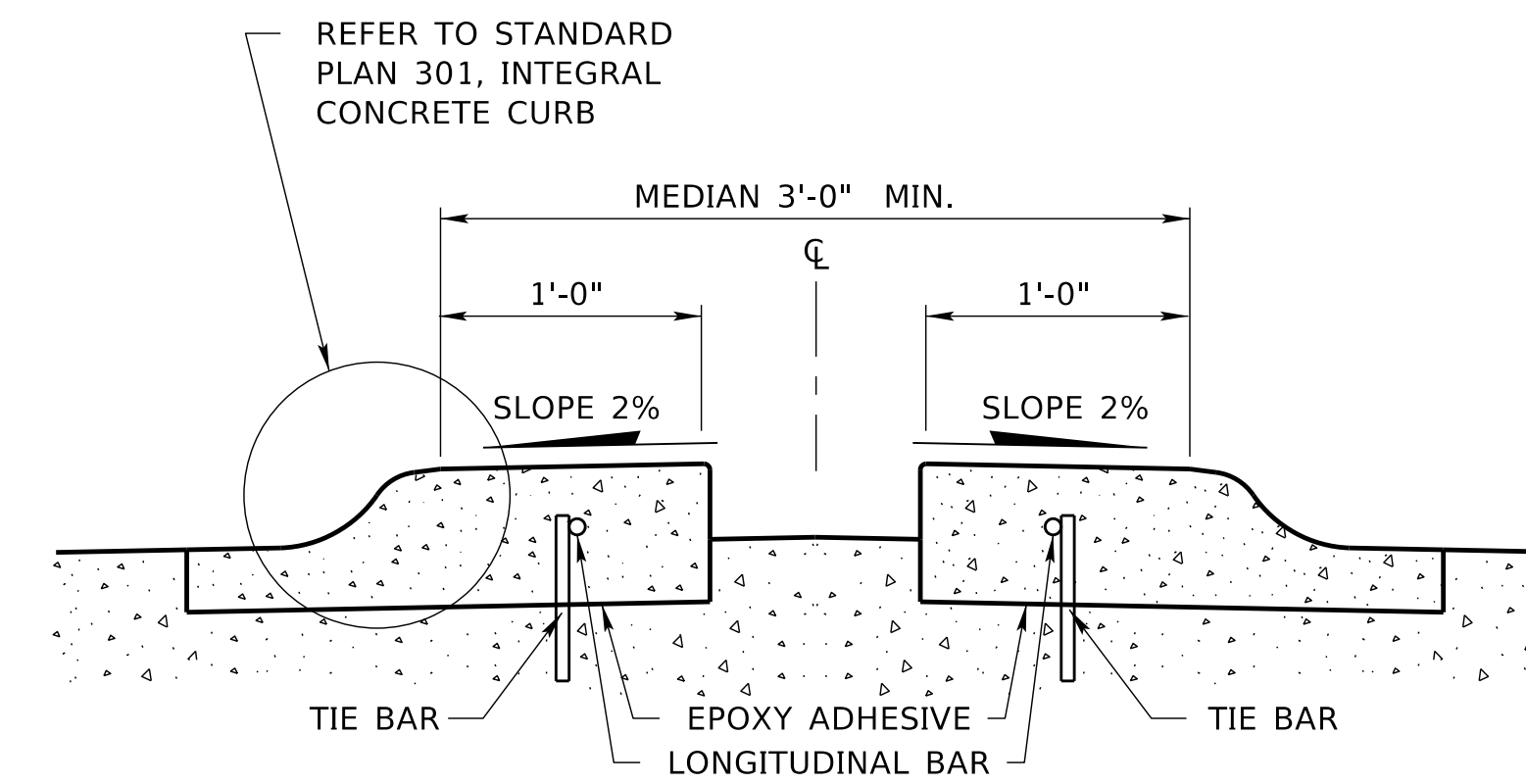
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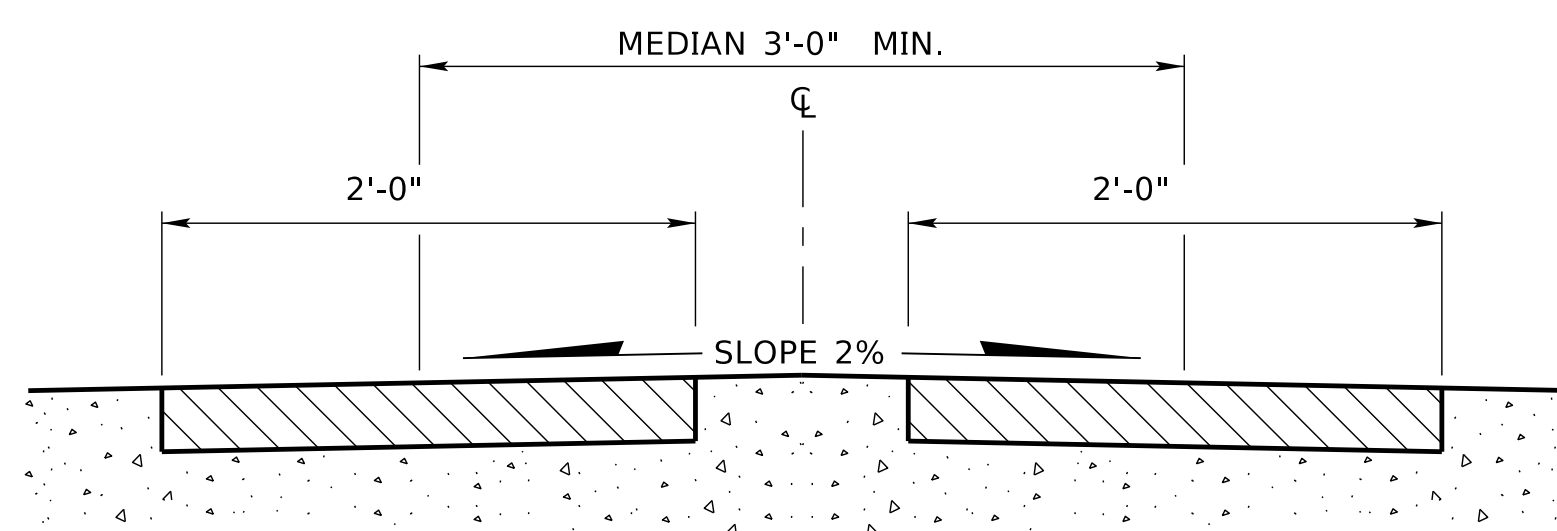
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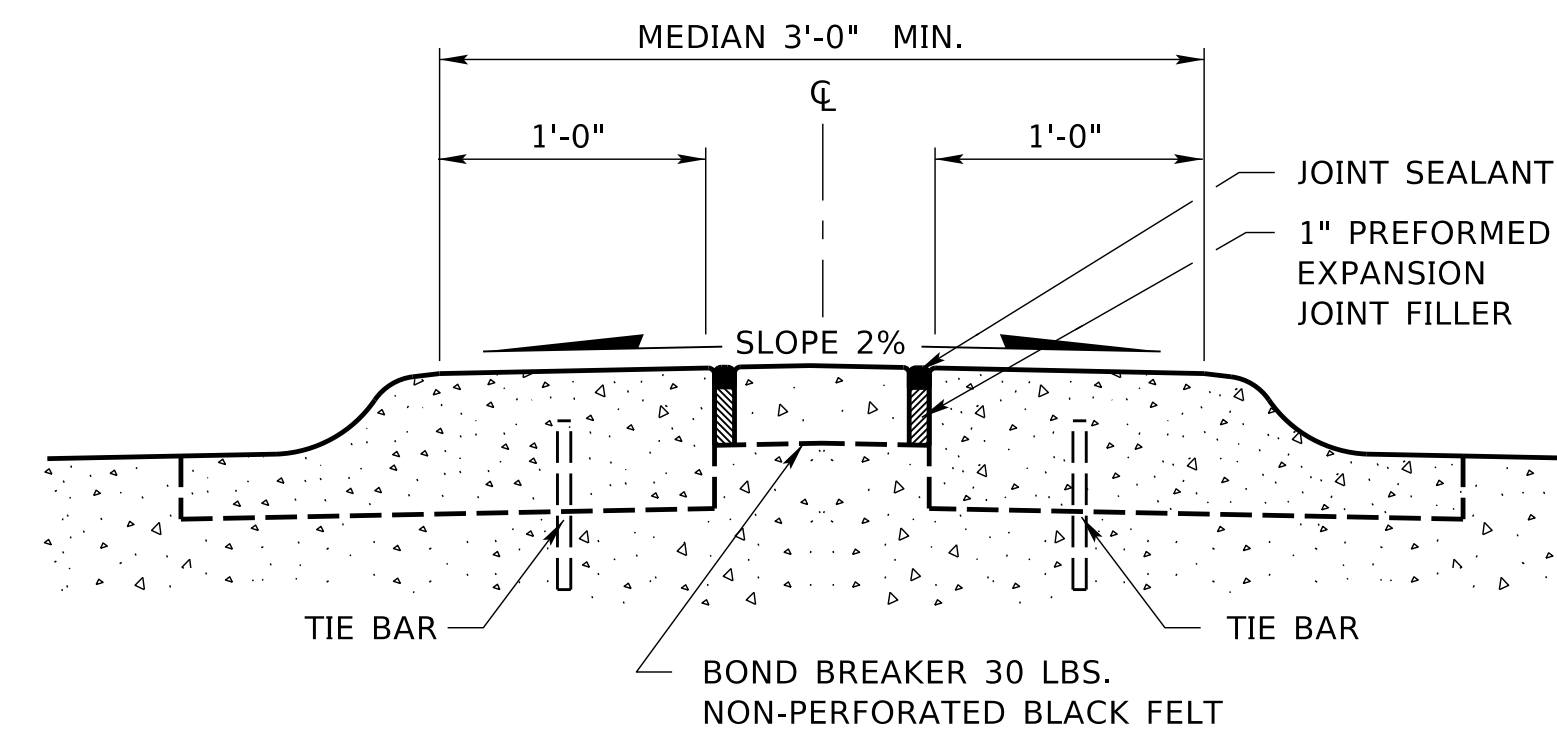
STEP I - BUILD TRAFFIC LANE (FULL DEPTH)



STEP 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.



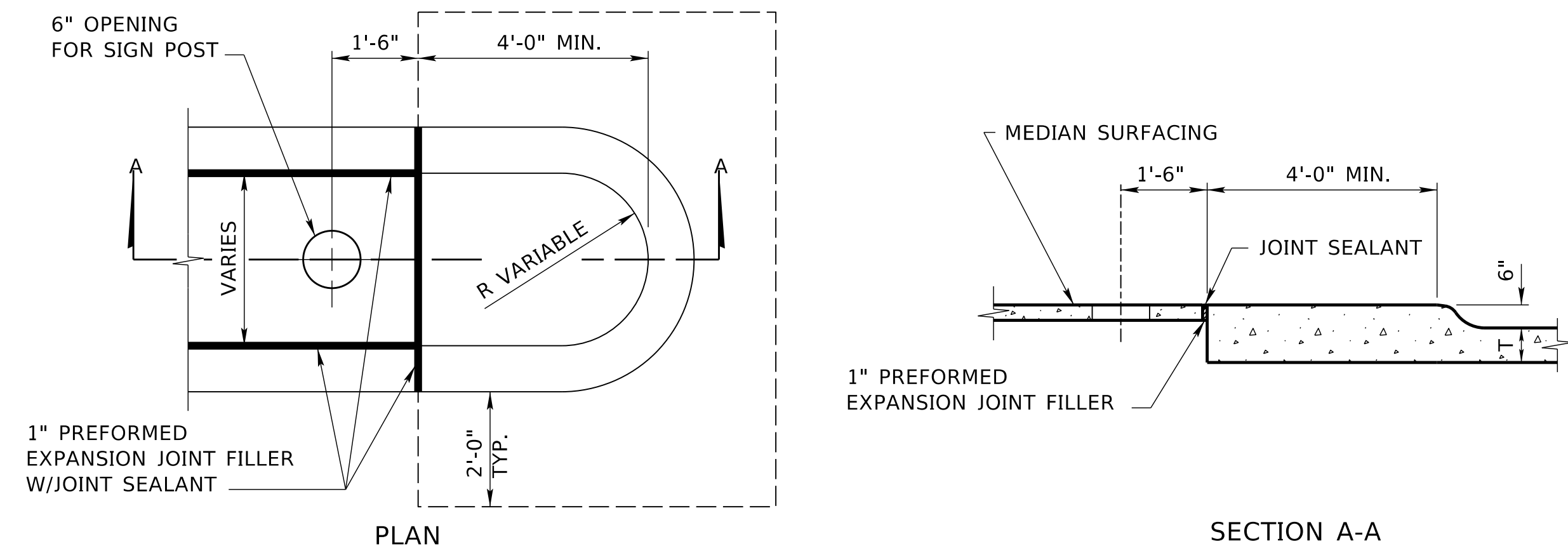
STEP II - MILL 2" x 2'-0"



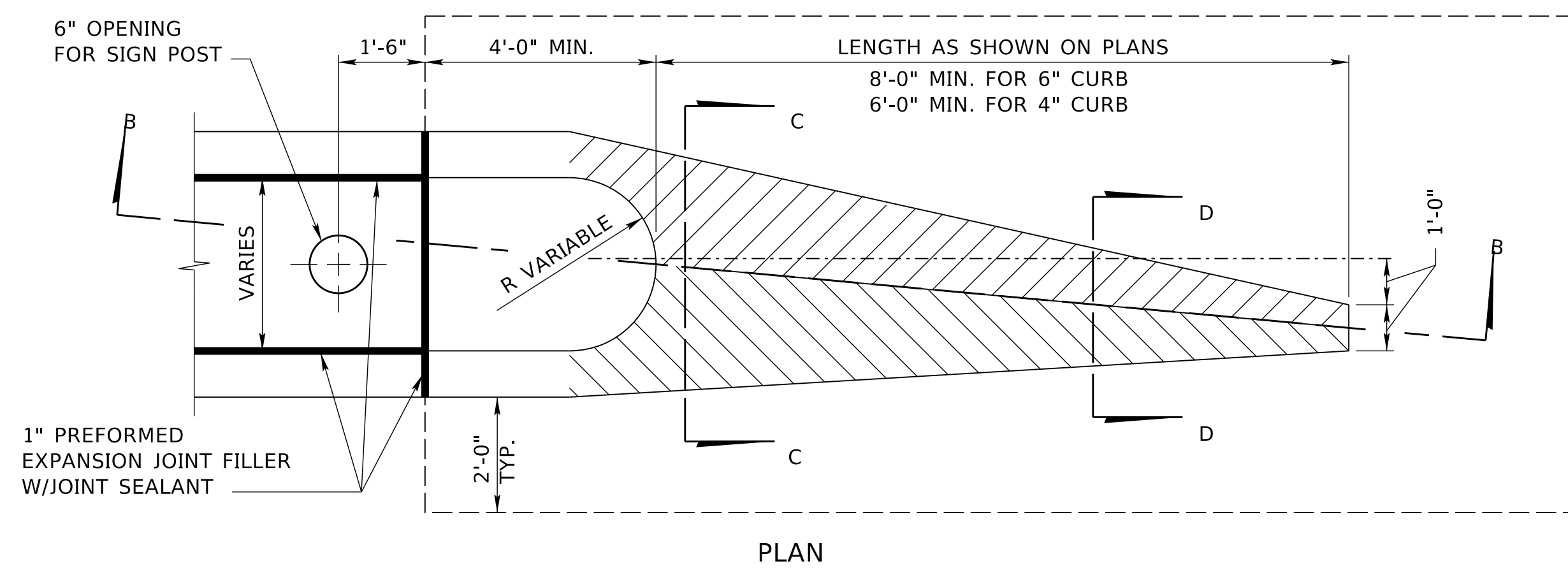
STEP IV - BUILD MEDIAN SURFACING ON EXISTING SURFACE

CONCRETE MEDIAN SURFACING

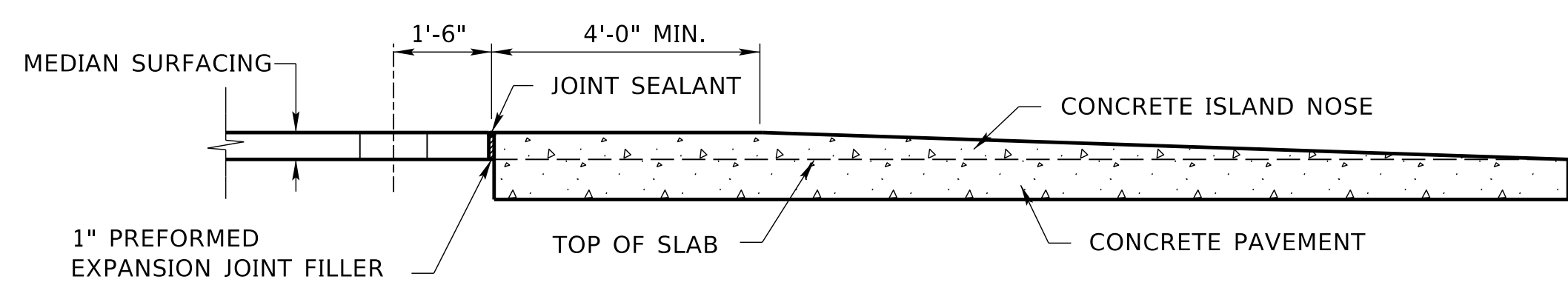
PHASING FOR CONCRETE ISLAND



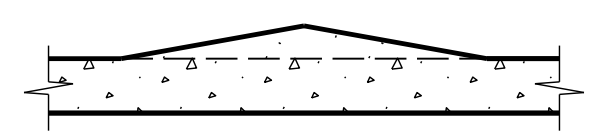
END OF MEDIAN ISLAND



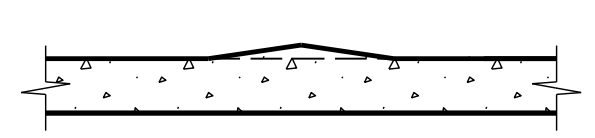
PLAN



SECTION B-B



SECTION C-C



SECTION D-D

CONCRETE ISLAND NOSE FOR RETROFIT

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

PHASING FOR CONCRETE ISLAND



Roadway Design Division

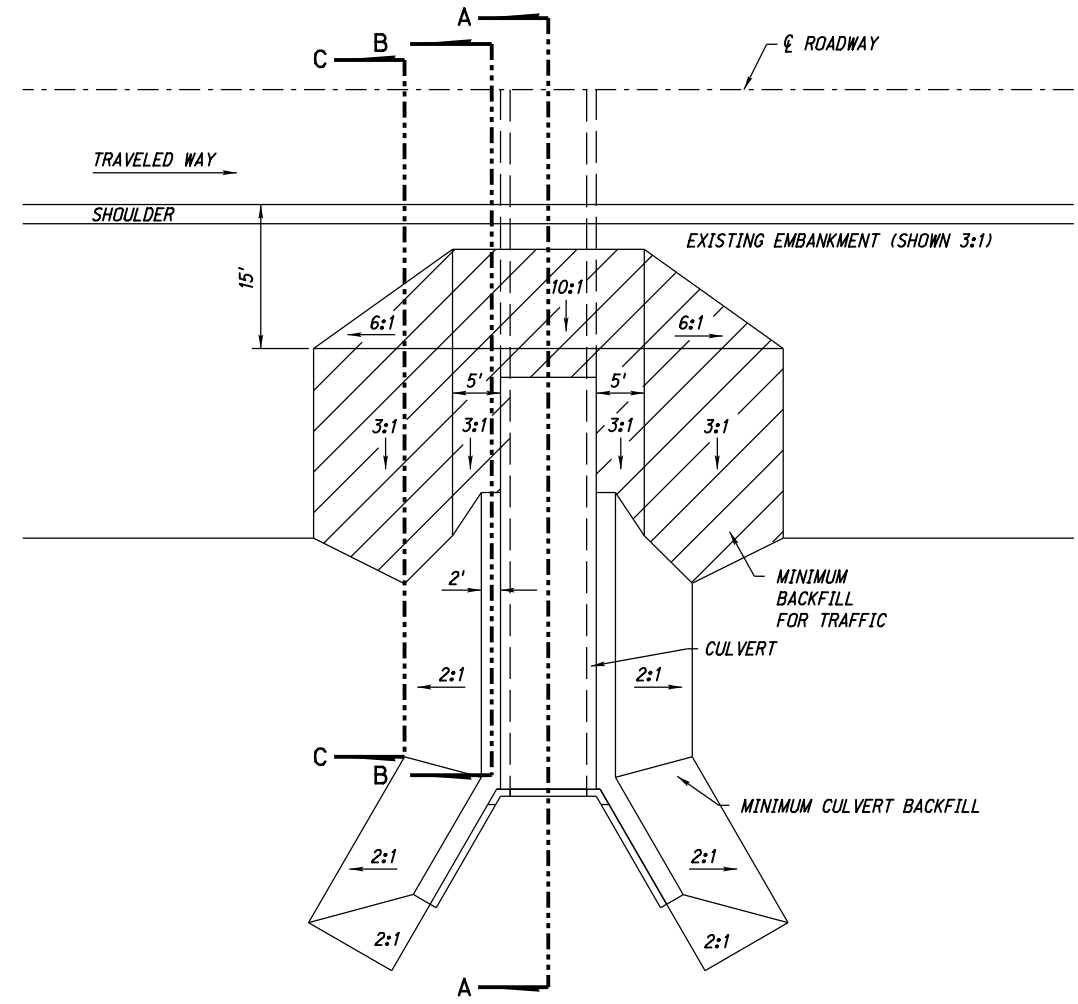
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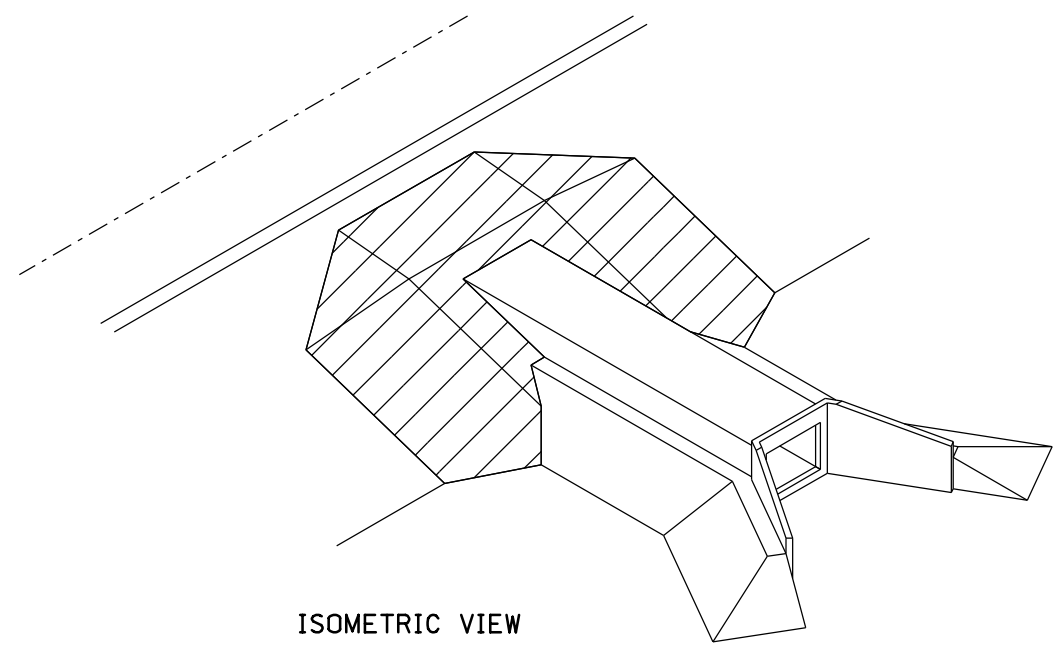
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GENERAL INFORMATION

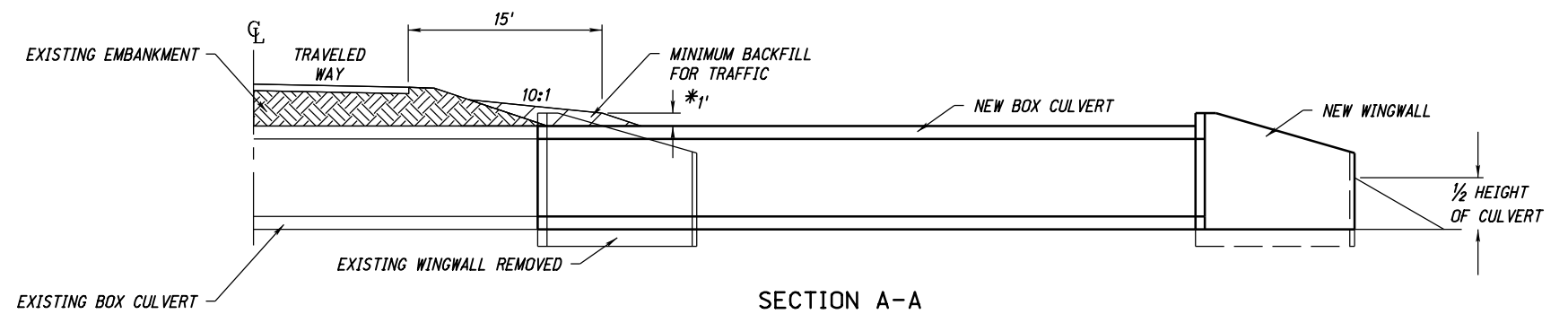
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SHEET 1 OF 1
4000 3-E-00



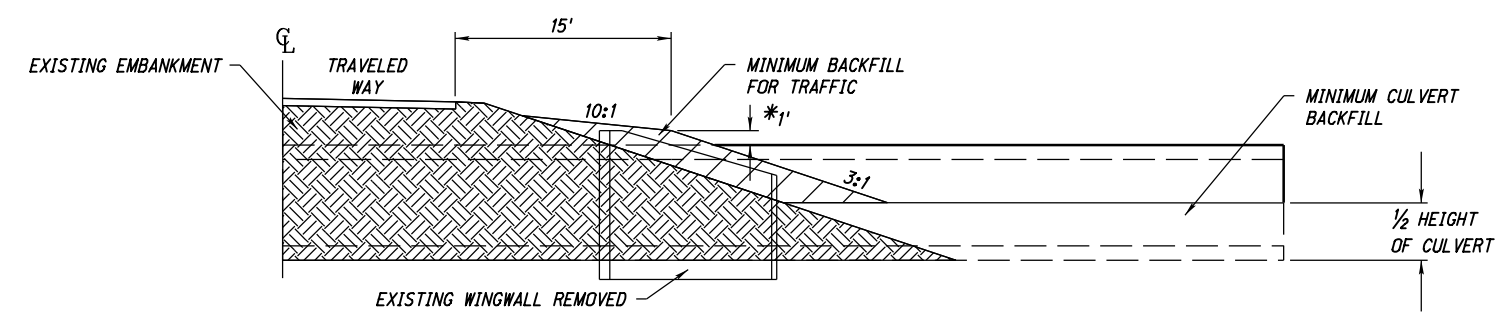
MINIMUM BACKFILL FOR TRAFFIC



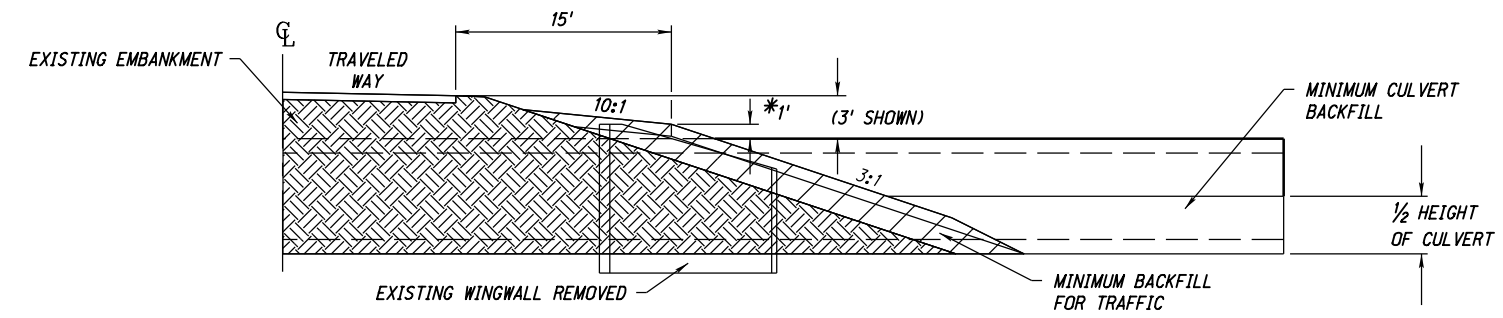
ISOMETRIC VIEW



SECTION A-A



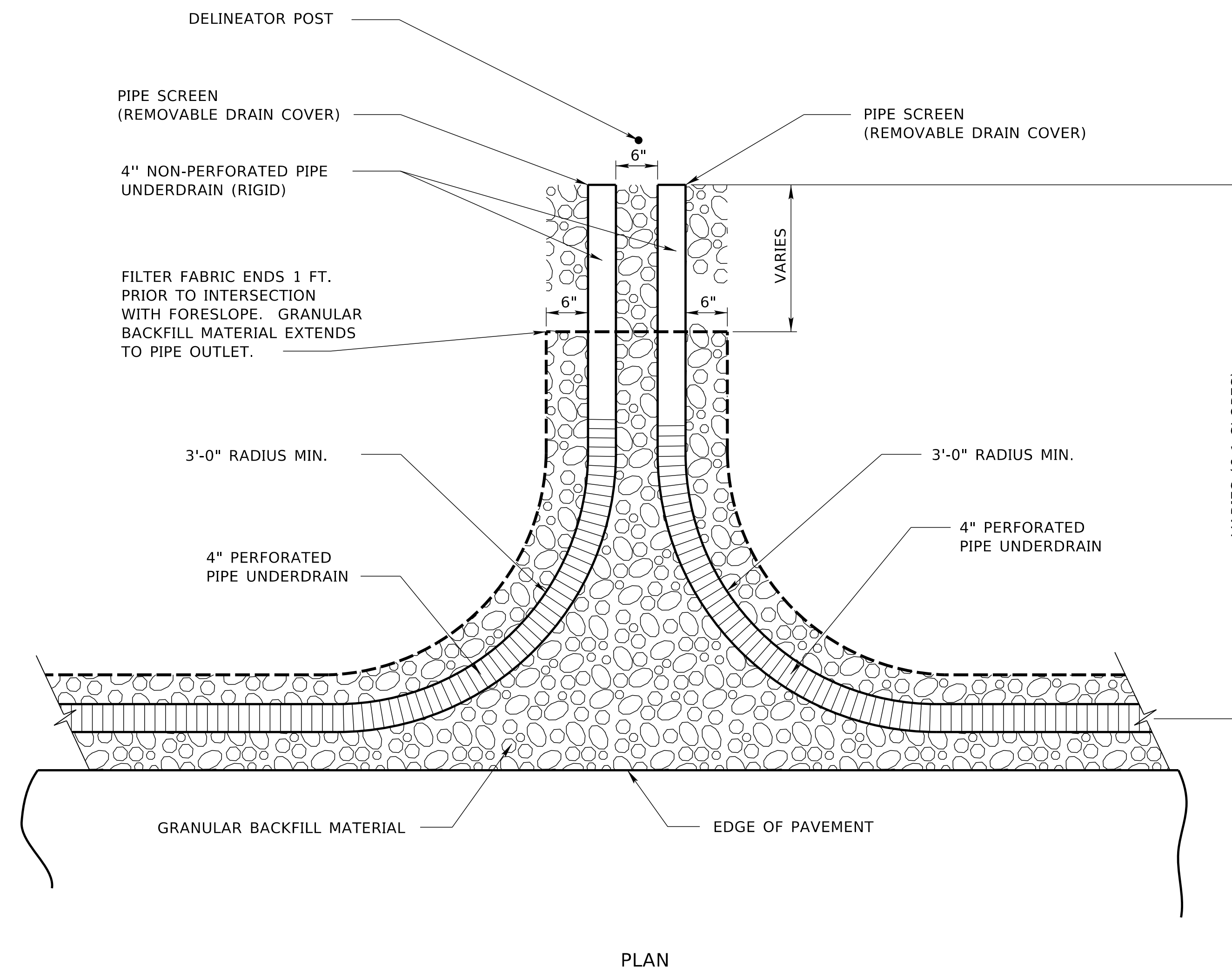
SECTION B-B



SECTION C-C

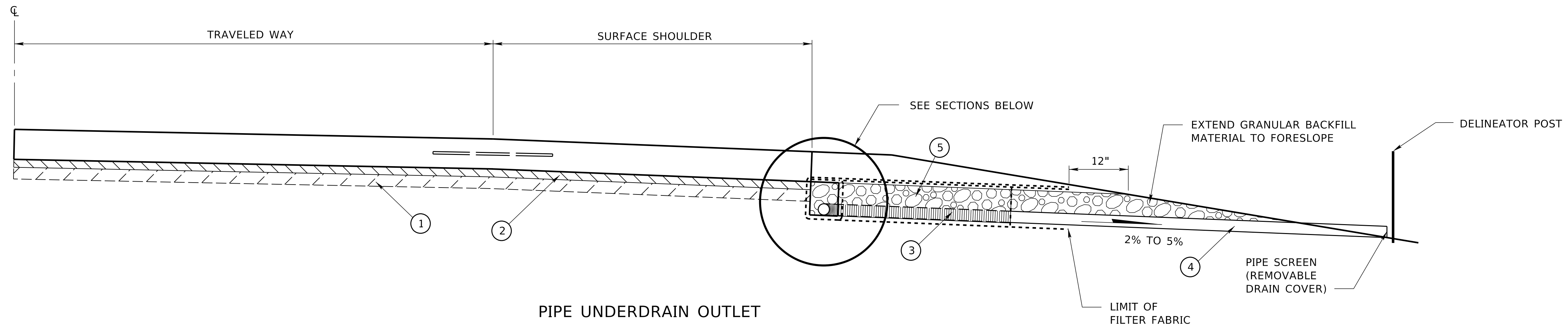
NOTE:
REFER TO STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION SECTION 702 FOR MORE INFORMATION.
* TO PROTECT THE PIPE AND BACKFILL DURING CONSTRUCTION, PROVIDE A MINIMUM OF 36" OF COMPACTED FILL MATERIAL OVER THE TOP OF THE PIPE BEFORE ALLOWING ANY HEAVY EQUIPMENT TO TRAVERSE OVER THE PIPE. EXTREMELY HEAVY EQUIPMENT MAY REQUIRE LARGER COVER AS DETERMINED BY THE CONTRACTOR.

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



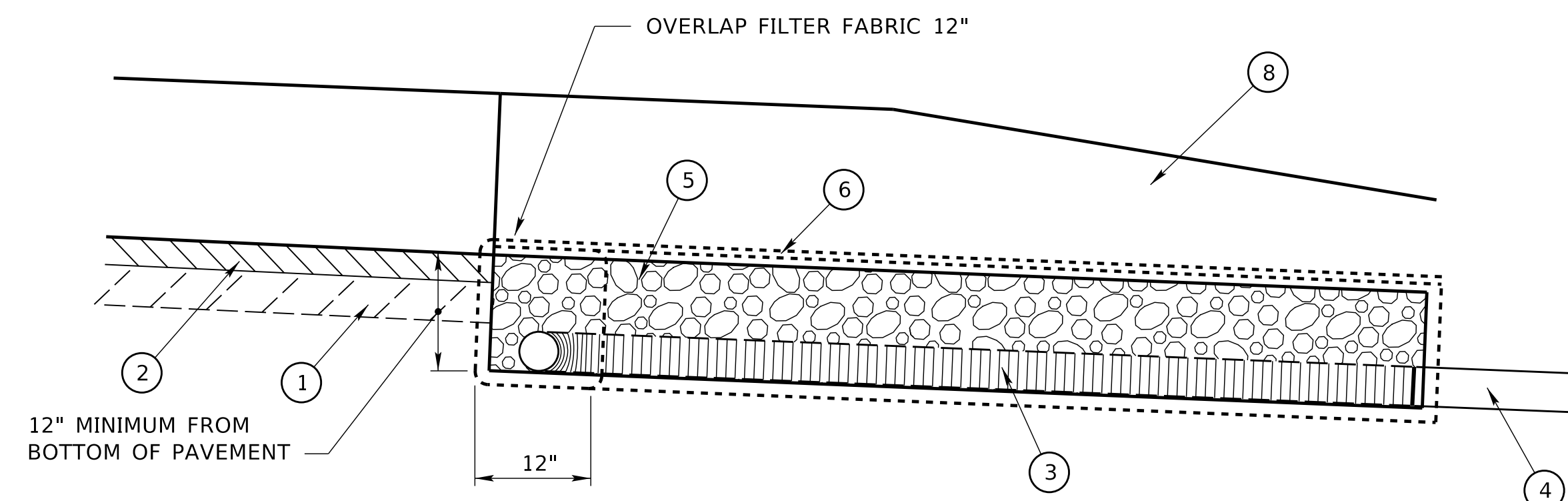
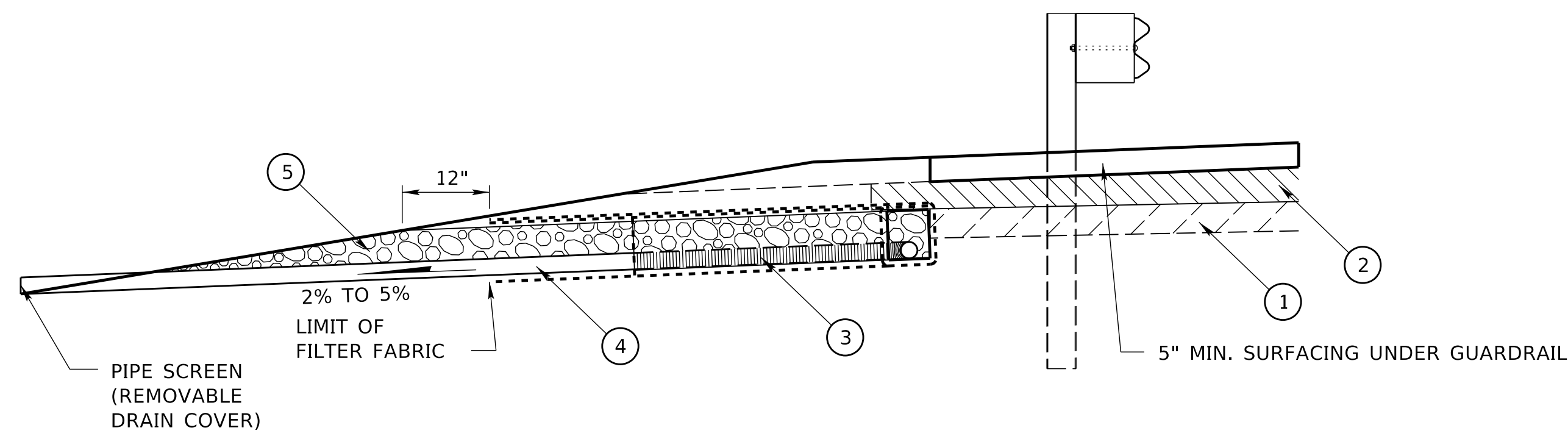
PLAN VIEW OF PIPE UNDERDRAIN OUTLET

4" PIPE UNDERDRAIN

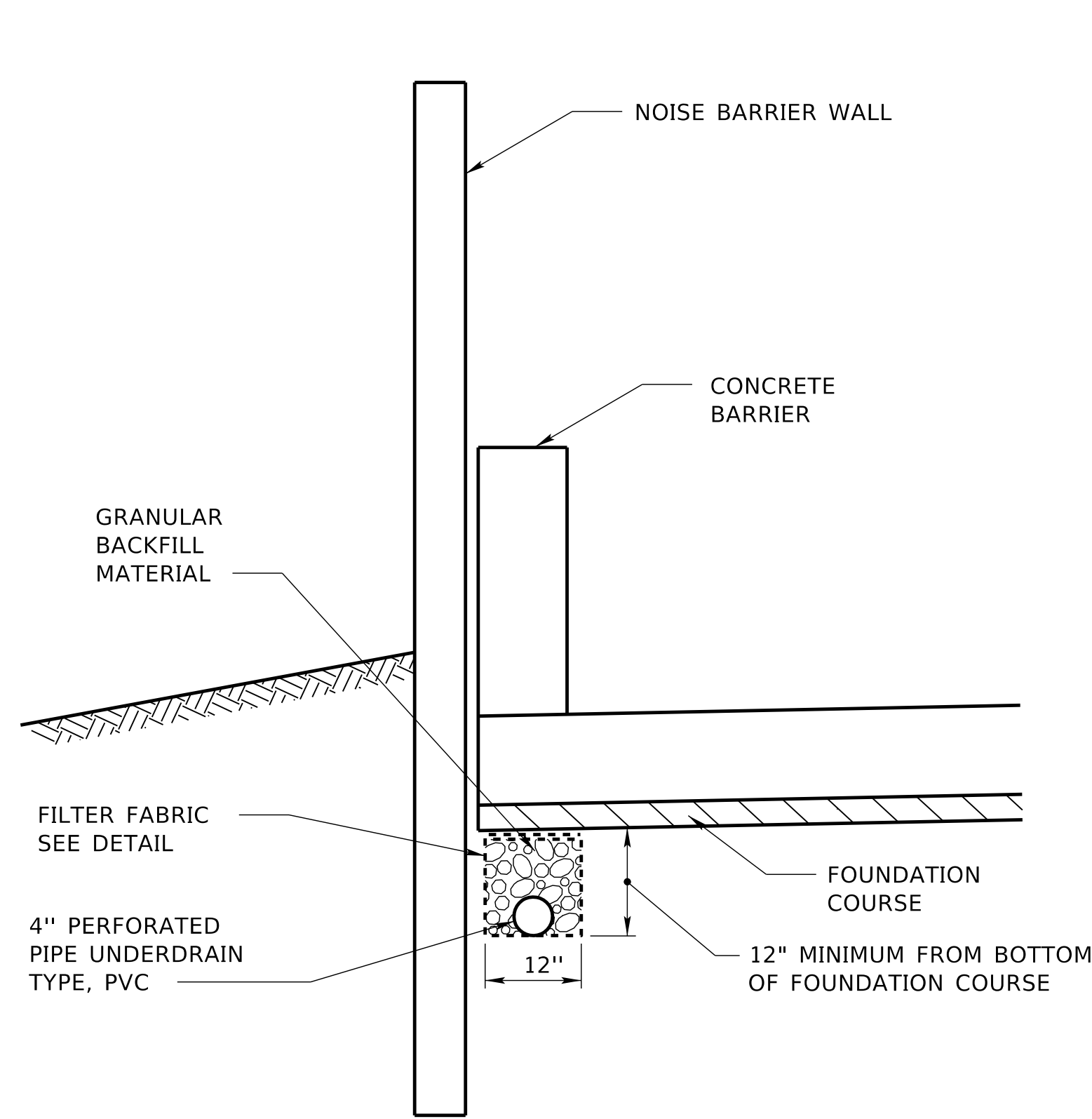


NOTE:
SHOULDER CONSTRUCTION TO BE PERFORMED
PRIOR TO CONSTRUCTING PIPE UNDERDRAINS.

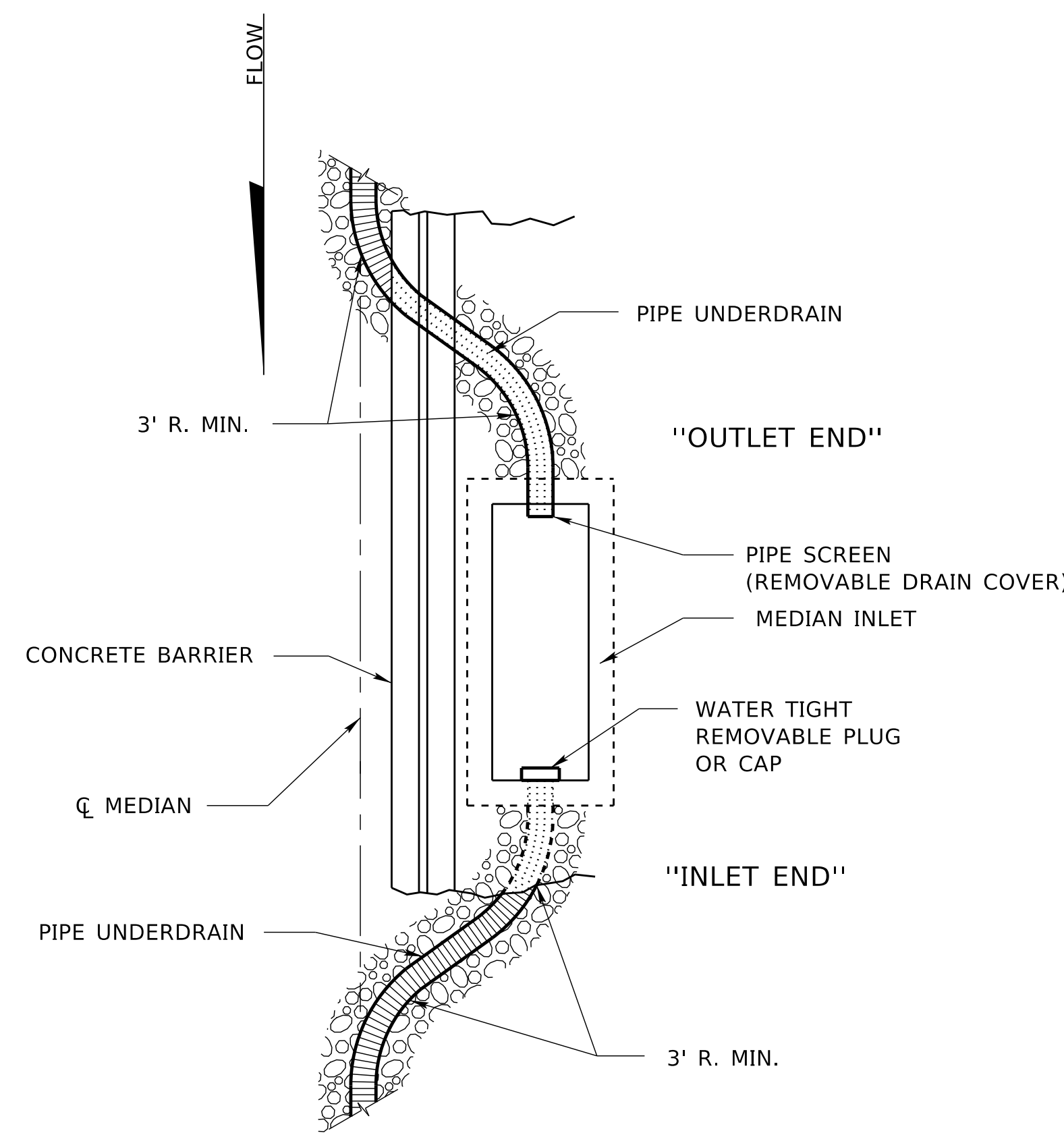
- ① SUBGRADE PREPARATION
- ② FOUNDATION COURSE
- ③ 4" PERFORATED PIPE UNDERDRAIN
- ④ 4" NON-PERFORATED PIPE UNDERDRAIN (RIGID)
- ⑤ GRANULAR BACKFILL MATERIAL (SUBSIDIARY)
- ⑥ FILTER FABRIC (SUBSIDIARY)
- ⑦ CONCRETE PAVEMENT
- ⑧ COHESIVE SOIL



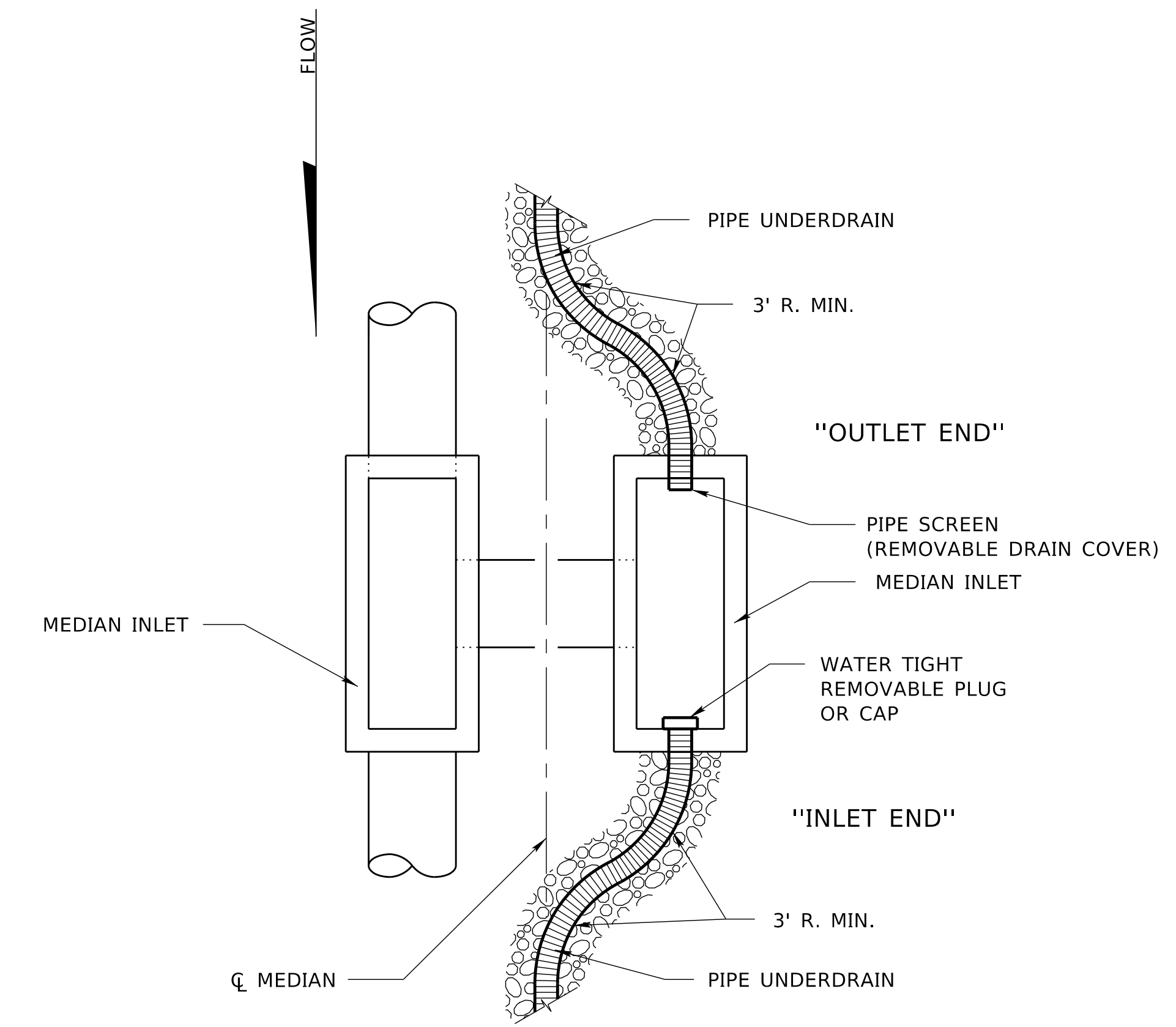
4" PIPE UNDERDRAIN



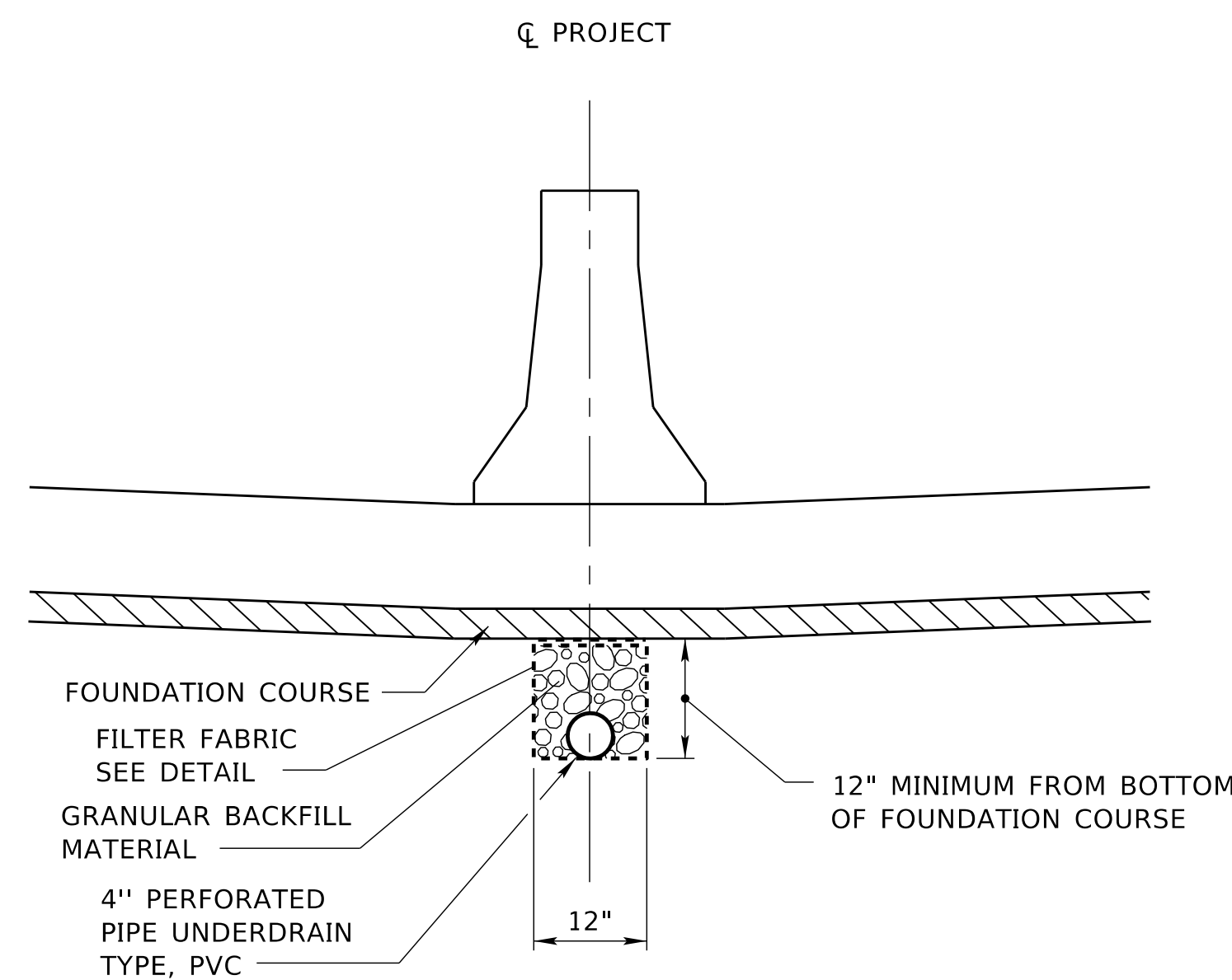
SECTION



PLAN

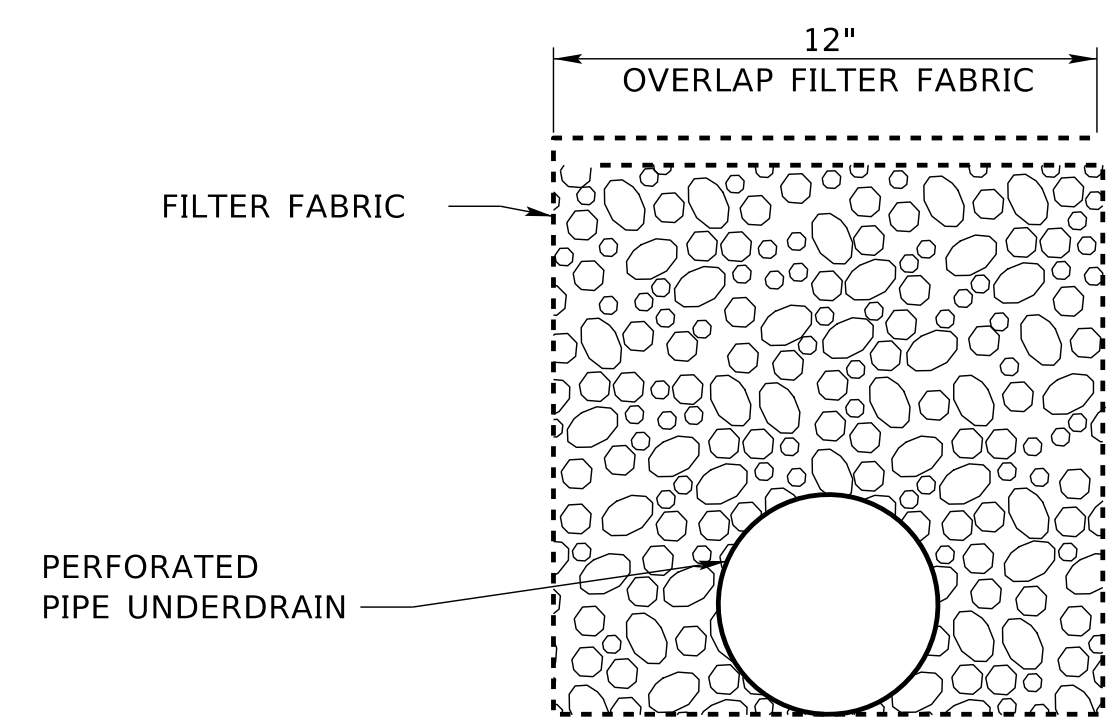


PLAN

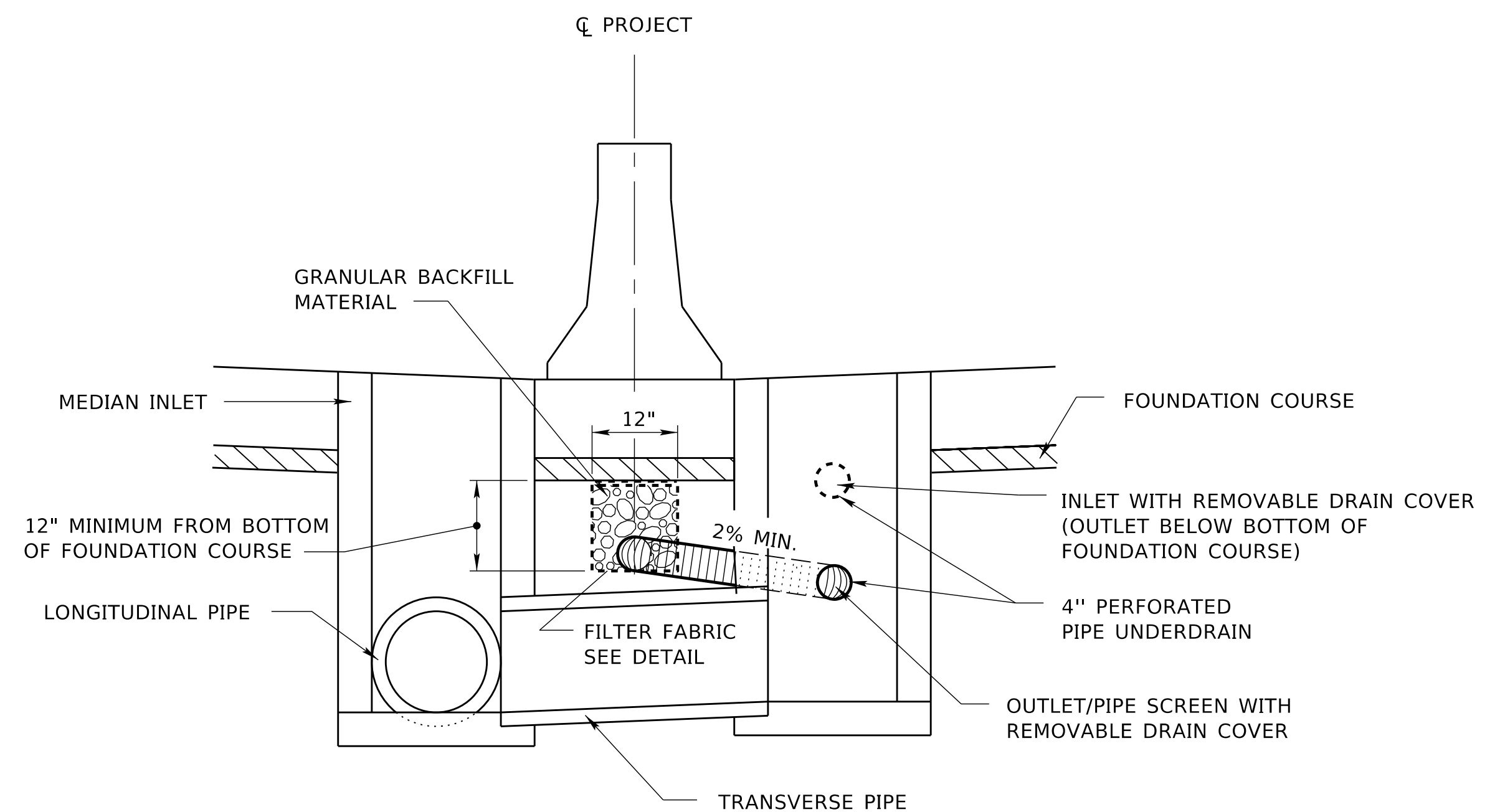


SECTION

DETAILS OF PIPE UNDERDRAIN PLACEMENT



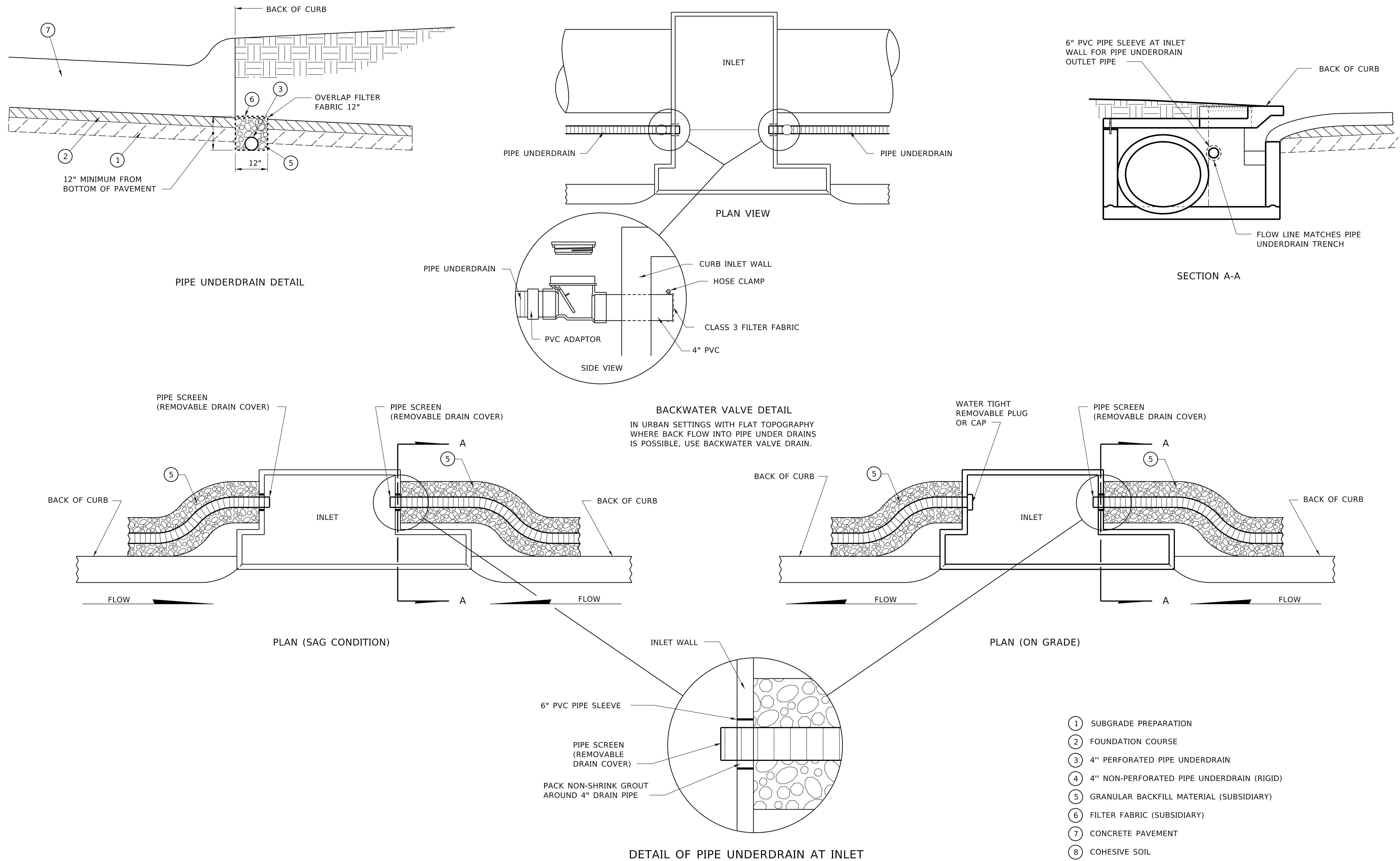
FILTER FABRIC DETAIL



SECTION

DETAILS OF PIPE UNDERDRAIN CONNECTION TO MEDIAN INLETS & GRATE INLETS

4" PIPE UNDERDRAIN



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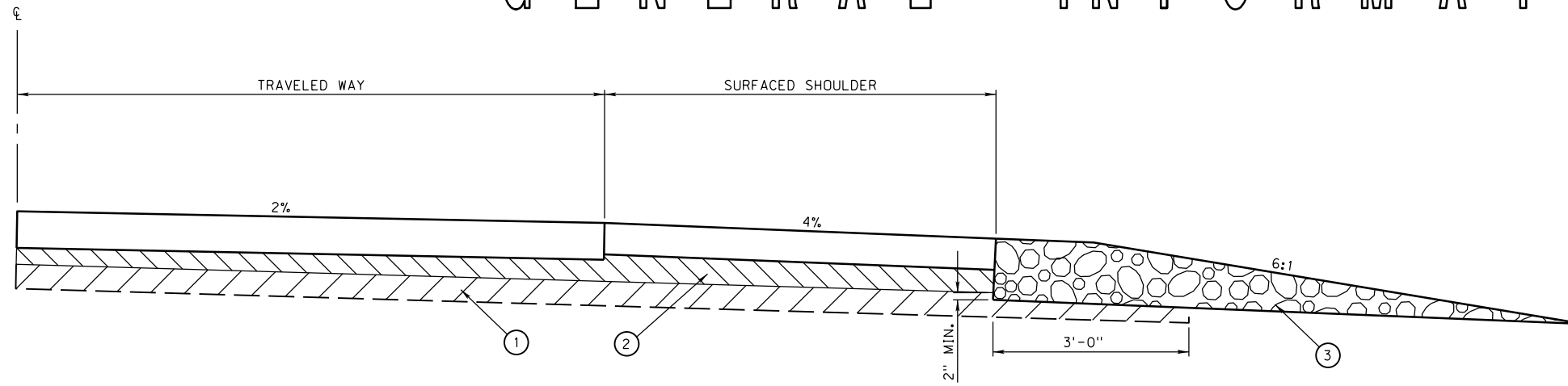
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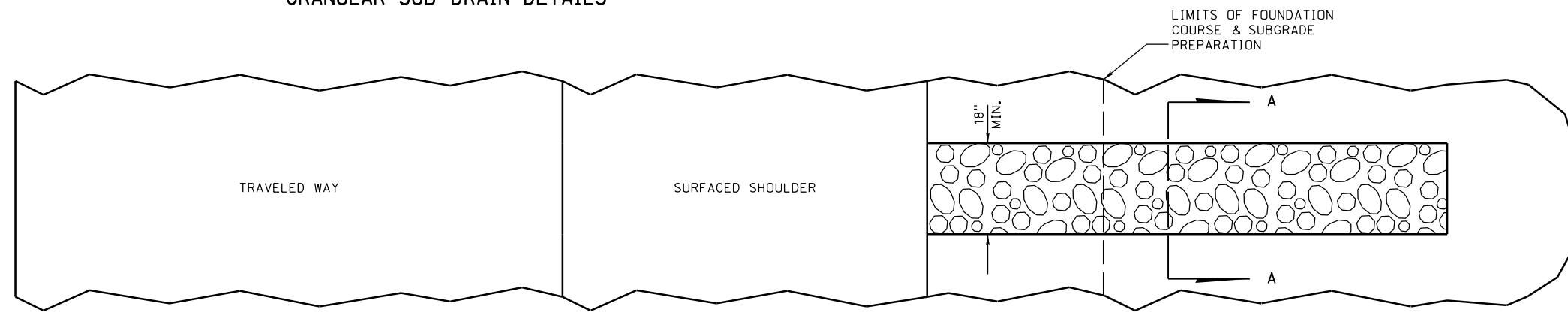
4" PIPE UNDERDRAIN

GENERAL INFORMATION

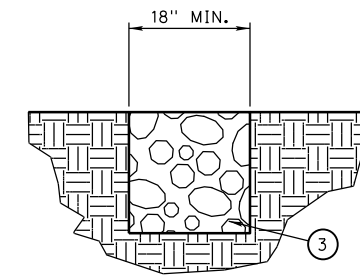
ROADWAY DESIGN DIVISION



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'-0" 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	SPACING
*	-	*	*	*

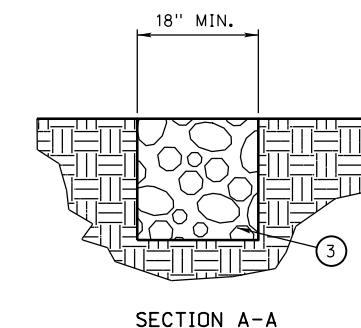
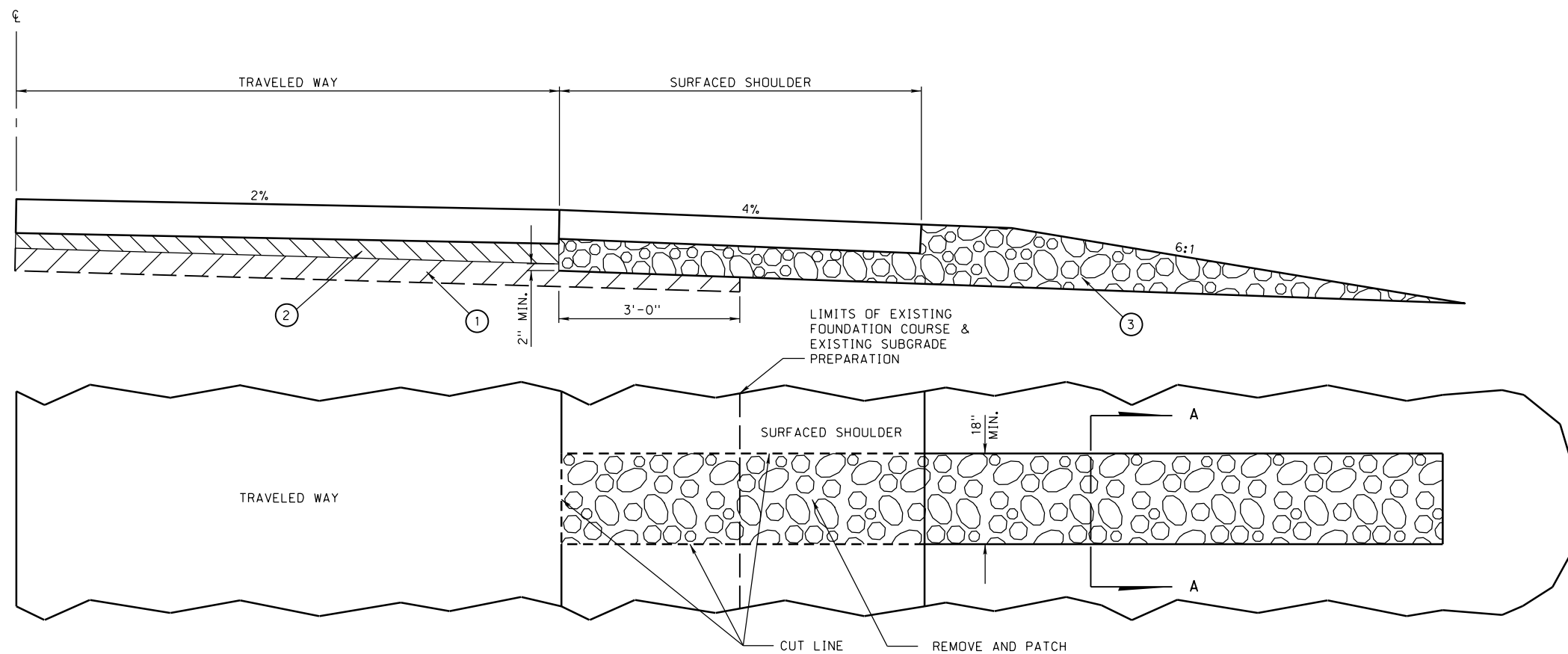
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View 1 - NEW CONSTRUCTION

GENERAL INFORMATION



GRANULAR SUB-DRAIN DETAILS

- 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
*	-	*	*	*	*

View 2 - RETROFIT

GENERAL INFORMATION

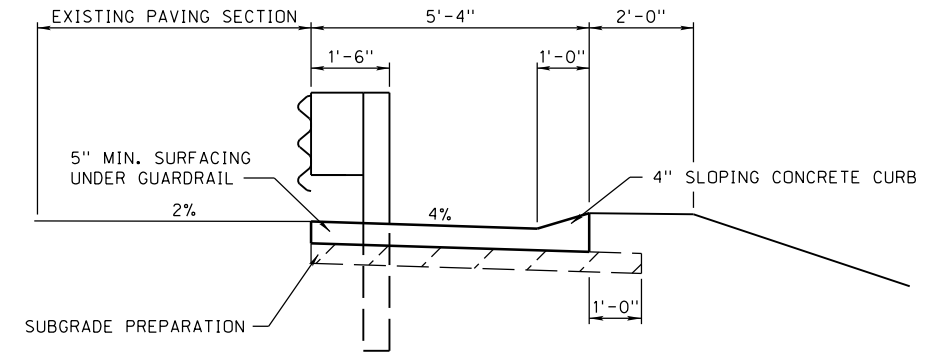
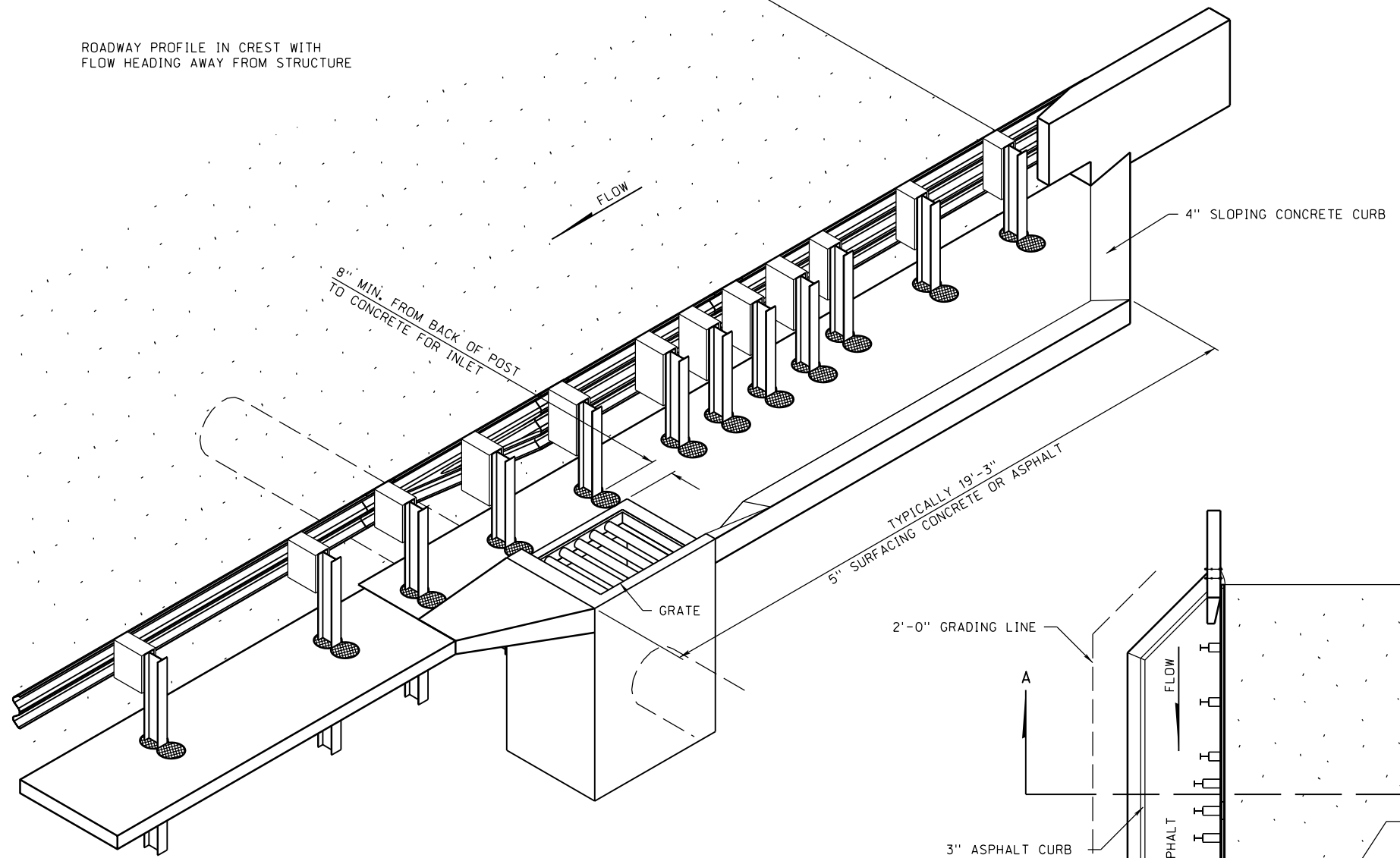
ROADWAY DESIGN DIVISION

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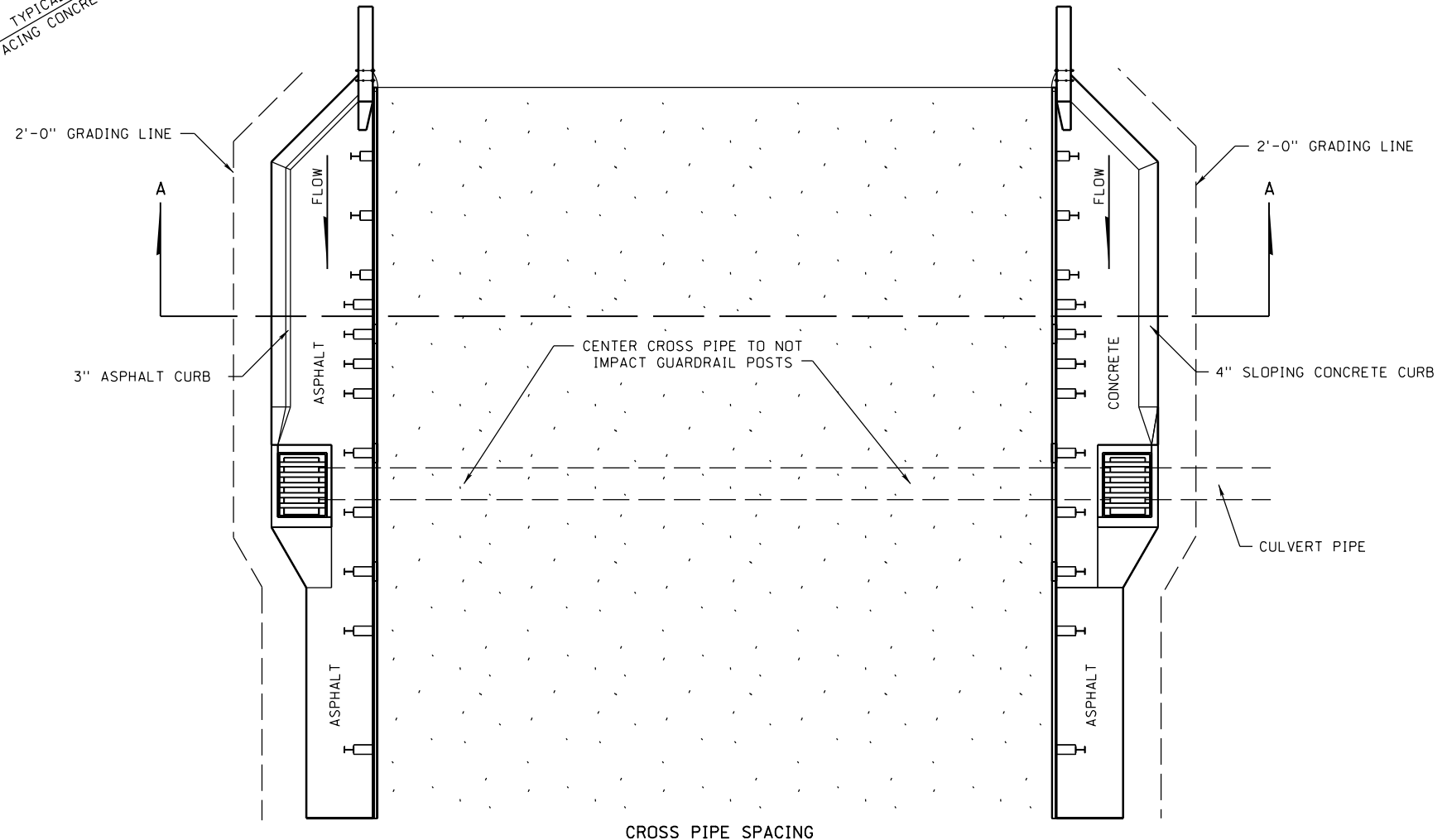
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ROADWAY PROFILE IN CREST WITH
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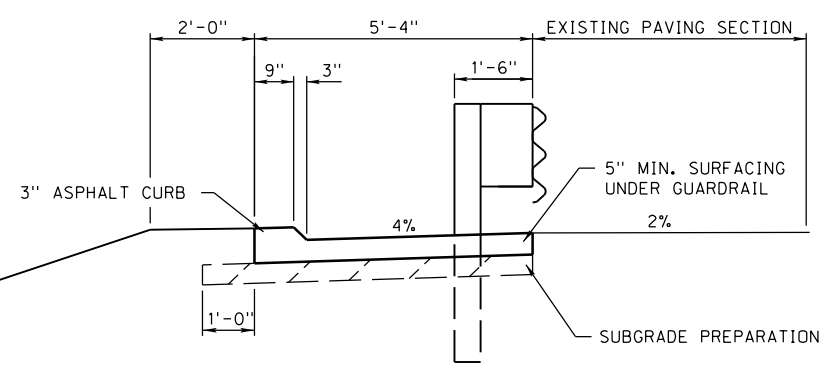


SECTION A-A



CROSS PIPE SPACING

APPROACH SLAB DRAINAGE INLETS



SECTION A-A

BRIDGE INLET BEHIND GUARDRAIL FOR CREST CONDITION

GENERAL INFORMATION

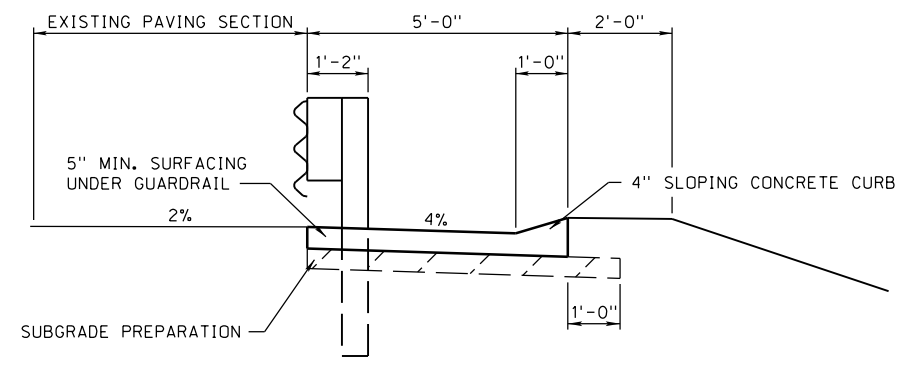
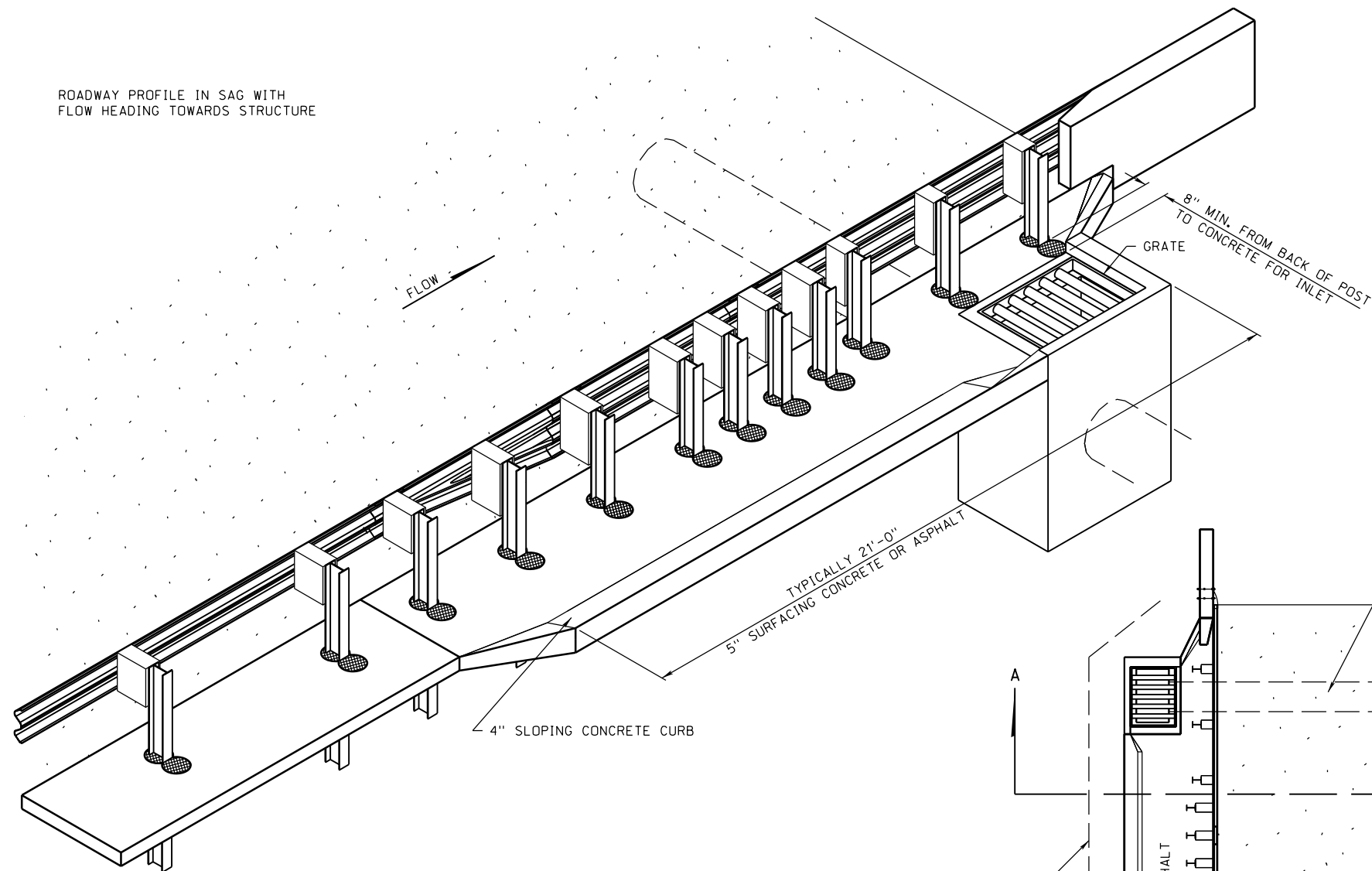
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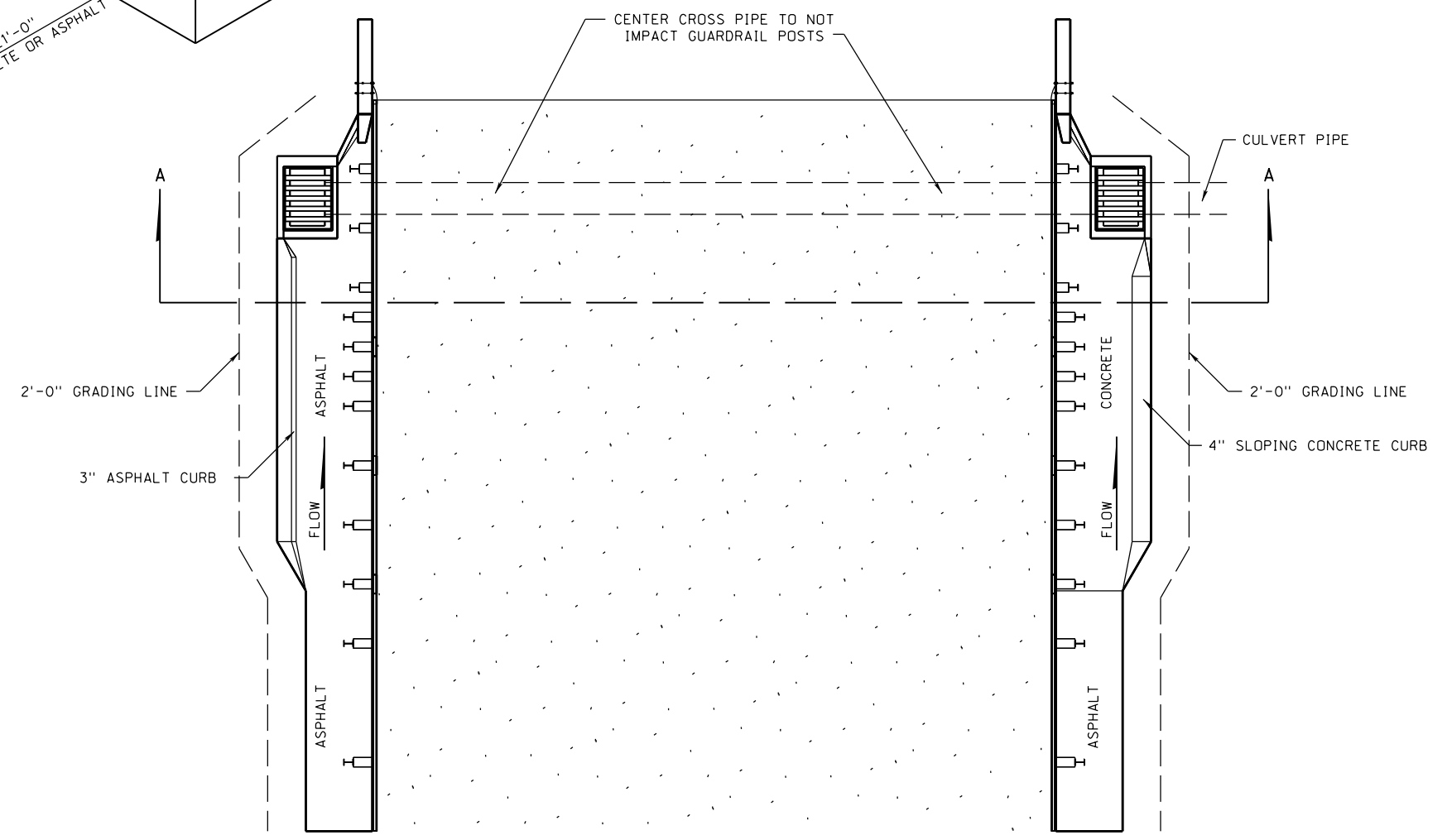
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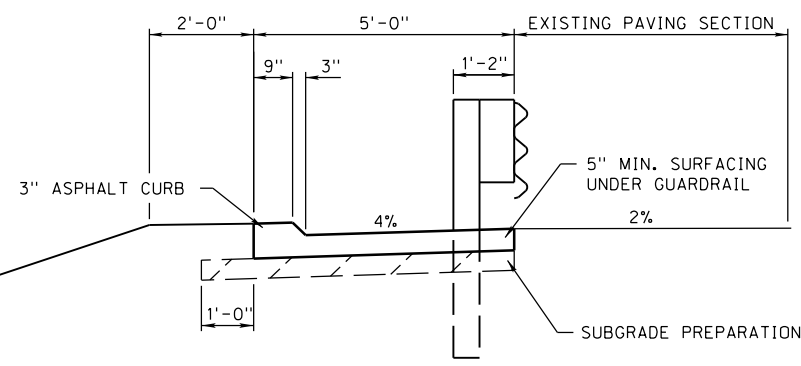
ROADWAY PROFILE IN SAG WITH
FLOW HEADING TOWARDS STRUCTURE



SECTION A-A



CROSS PIPE SPACING



SECTION A-A

BRIDGE INLET BEHIND GUARDRAIL FOR SAG CONDITION

APPROACH SLAB DRAINAGE INLETS

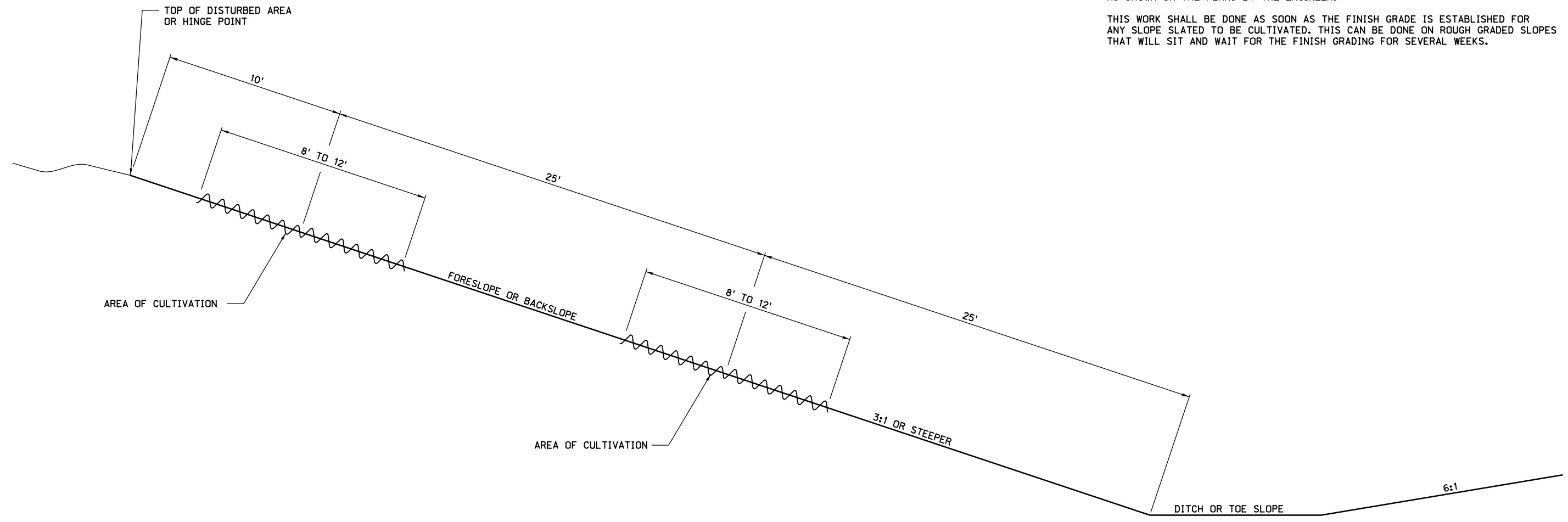
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ROADWAY DESIGN DIVISION

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SHEET 1 OF 1



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.



CONTOUR CULTIVATION