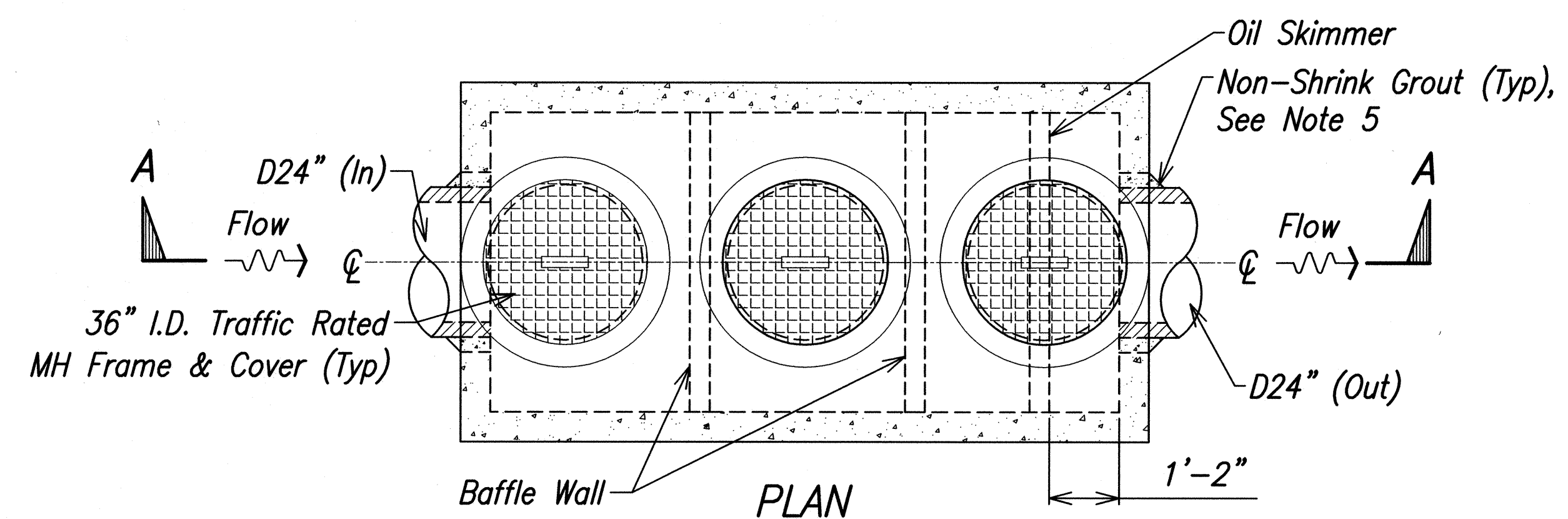
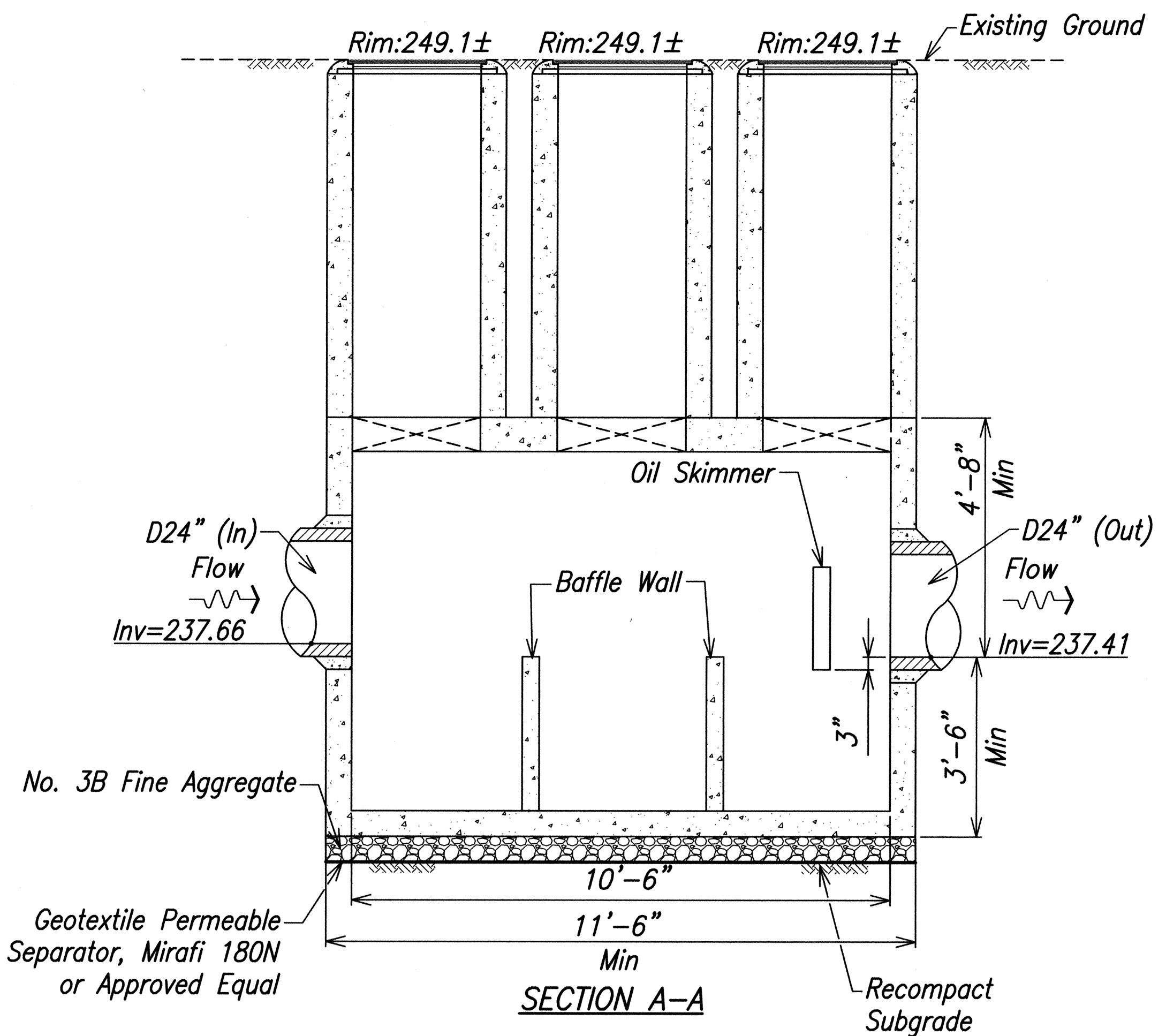
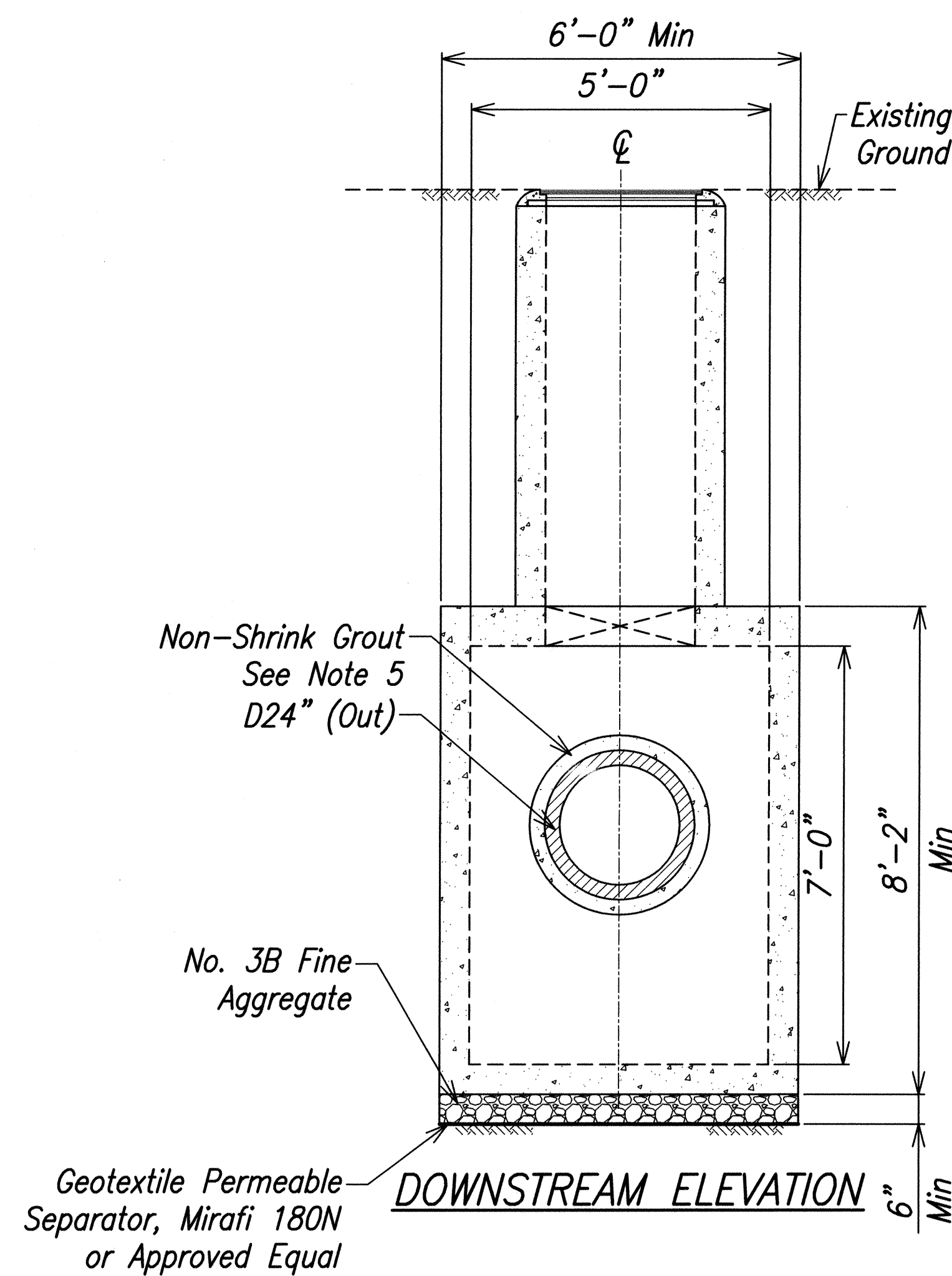


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-01-15	2016	25	52



STORM WATER TREATMENT UNITS FLOW REQUIREMENTS		
PID 106997 (UNIT B)	Q25 (cfs)	---
	WQFR (cfs)	3.18

- Notes:**
- Concrete 28-day compressive strength $f_c=5,000$ psi.
 - Reinforcing: ASTM A-615, grade 60.
 - Joint sealant: Butyl Rubber Mastic that meets requirements of AASHTO M-1998 and ASTM C-990.
 - Invert of outflow must be 3" above the bottom of oil skimmer.
 - All gaps around pipes shall be sealed watertight with non-shrink grout per manufacturer's installation instructions.
 - The Contractor shall be completely responsible for the design and installation of the storm water treatment unit. Minimal components of the storm water treatment unit are shown on this sheet. The Contractor shall provide a complete functional system including all internal components and appurtenances, including but not limited to, turbulence deflectors, filtration screen with lid, oil skimmer, hydrocarbon boom, and baffle walls. The Contractor shall also be responsible for the design of the connection of the storm water treatment unit to new or existing drain lines.
 - Inflow and outflow pipes shall be cut flush with the inside surface of the structure.
 - Backfill around the walls of the SWTU shall conform to the requirements of structure backfill material A in Section 703.20 of the Standard Specifications. Backfill under water shall be open graded gravel No. 3B Fine. Compact backfill to between 90% and 95% relative compaction.



1
C-06 | C-09
STORM WATER TREATMENT UNIT "B" DETAIL
Scale: 1/2"=1'-0"

ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
NOTE BOOK	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
No.	

\\bentley\shared\Civil\dot highway\2013\700400 oahu miscellaneous\mpa\04 graphics\c09\Sheets\c09\Storm Water Treatment Unit Details (SWP B) - 2.dwg

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

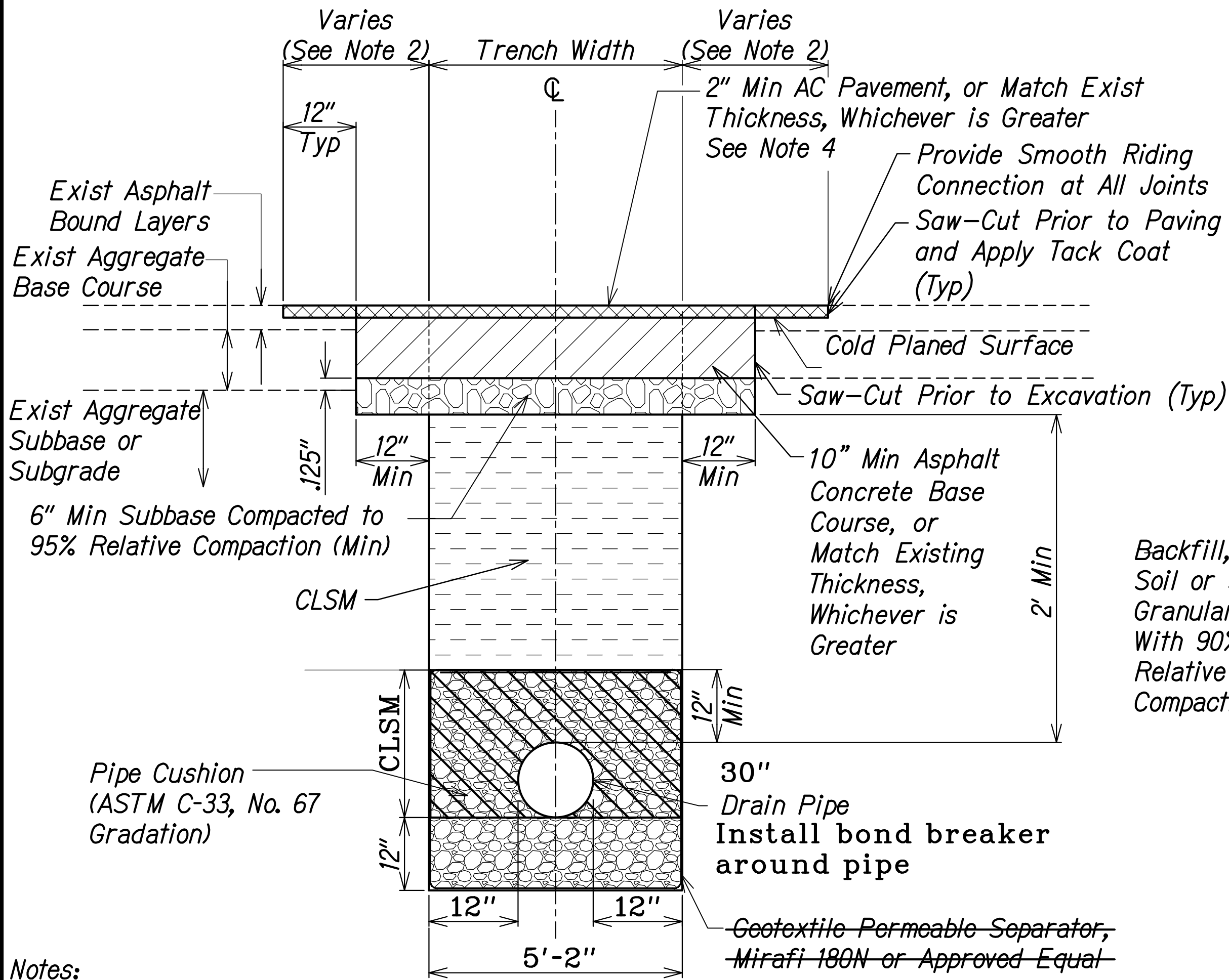
STORM WATER TREATMENT UNITS DETAILS-2

MISCELLANEOUS PERMANENT
BEST MANAGEMENT PRACTICES, PHASE 2A

Project No. HWY-0-01-15
Scale: 1/2"=1'-0" Date: April 2016

SHEET No. C-09 OF 22 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-O-01-15	2016	26	52

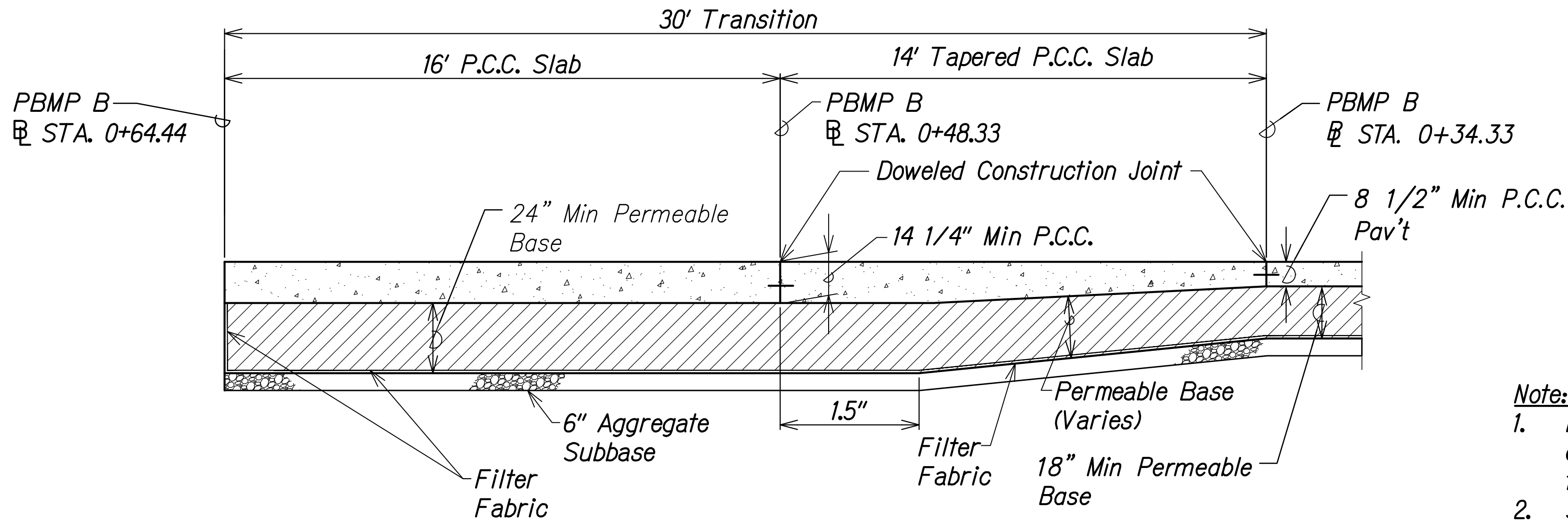


Notes:

- Tack Coat faces of existing asphalt bound materials prior to filling excavation with new asphalt bound materials.
- 6' for transverse trenches or to the lane lines for longitudinal trenches.
- Filler material and structural backfill material shall conform with the requirements of the Standard Specifications Section 206.03.
- Asphalt pavement at PBMP A shall be Mix IV. Asphalt pavement at PBMP B shall be Mix V.

FLEXIBLE PAVEMENT TRENCH DETAIL PBMP A
Scale: 3/4"=1'-0"
C-02 C-10 C-05

LANDSCAPED AREAS TRENCH DETAIL
Scale: 3/4"=1'-0"
C-05 C-10 C-06



PBMP B @ STA. 0+34.33 TO STA. 0+64.44 TRANSITION PAVEMENT RESTORATION DETAIL
Scale: 3/8"=1'-0"
C-05 C-10 C-11

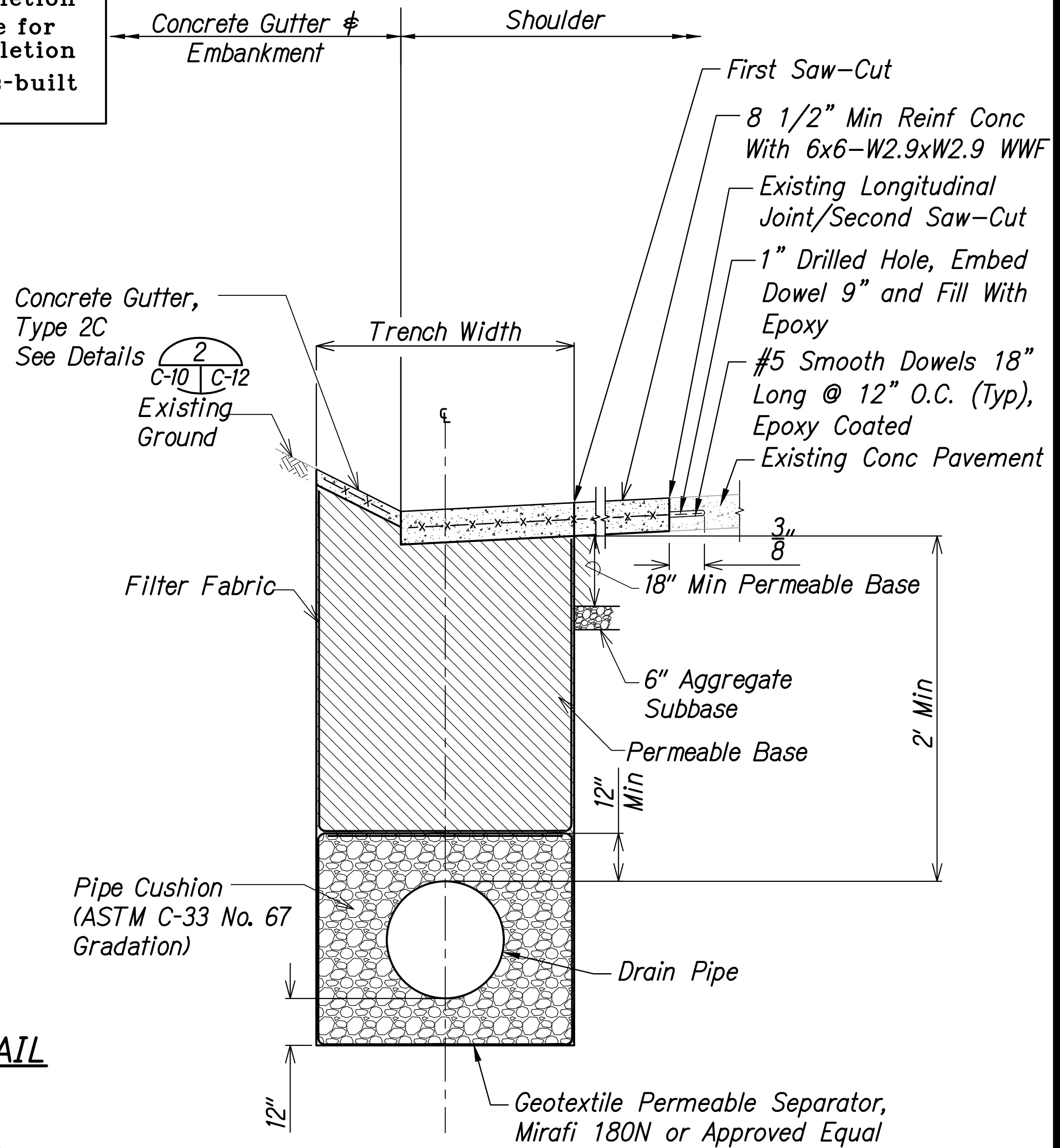
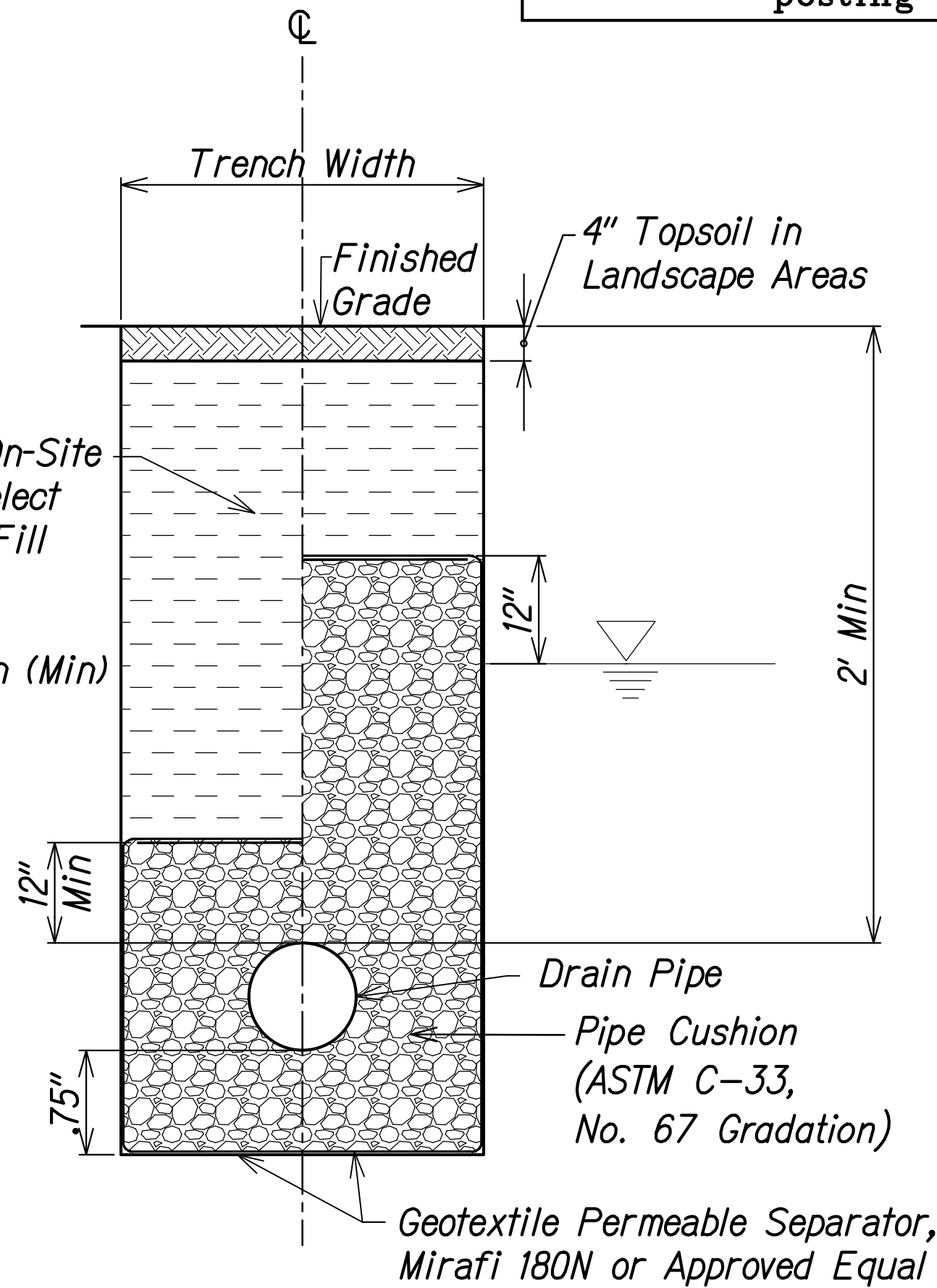
Drain Pipe Size	Trench Width (Min)
24"	66"
30"	75"
42"	89"
54"	93"

LEGEND FOR AS-BUILT POSTINGS

Squiggly line for as-built deletion

Double line for as-built deletion

Text for as-built posting



Notes:

- Pavement and permeable base to match existing thickness or the minimum thickness shown, whichever is greater.
- See Detail 1/Sheet C-11 for rigid pavement restoration construction joint details.
- See Sheet C-11 Special Notes for P.C.C. Pavement Restoration with Permeable Base.
- Existing 6-inch diameter perforated underdrain pipe under existing shoulder not shown for clarity. Contractor to protect existing underdrain pipe during construction. Contractor shall replace damaged underdrain pipe at no additional cost to the satisfaction of the Engineer.

RIGID PAVEMENT TRENCH DETAIL
Scale: 1/2"=1'-0"
C-05 C-10 C-06

Note:

- Pavement and permeable base to match existing thickness or the minimum thickness shown, whichever is greater.
- See Sheet C-11 Special Notes for P.C.C. Pavement Restoration with Permeable Base.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MISCELLANEOUS DETAILS-1

MISCELLANEOUS PERMANENT BEST MANAGEMENT PRACTICES, PHASE 2A

Project No. HWY-O-01-15

Scale: As Shown Date: April 2016

SHEET No. C-10 OF 22 SHEETS

"AS-BUILT"

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