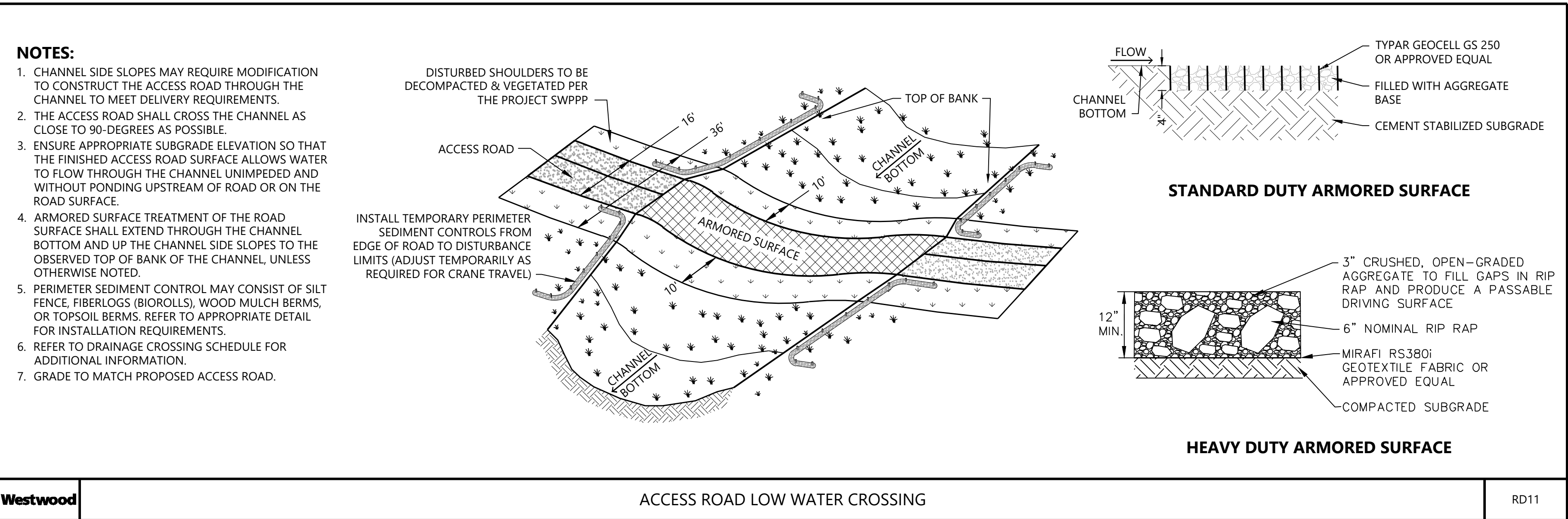
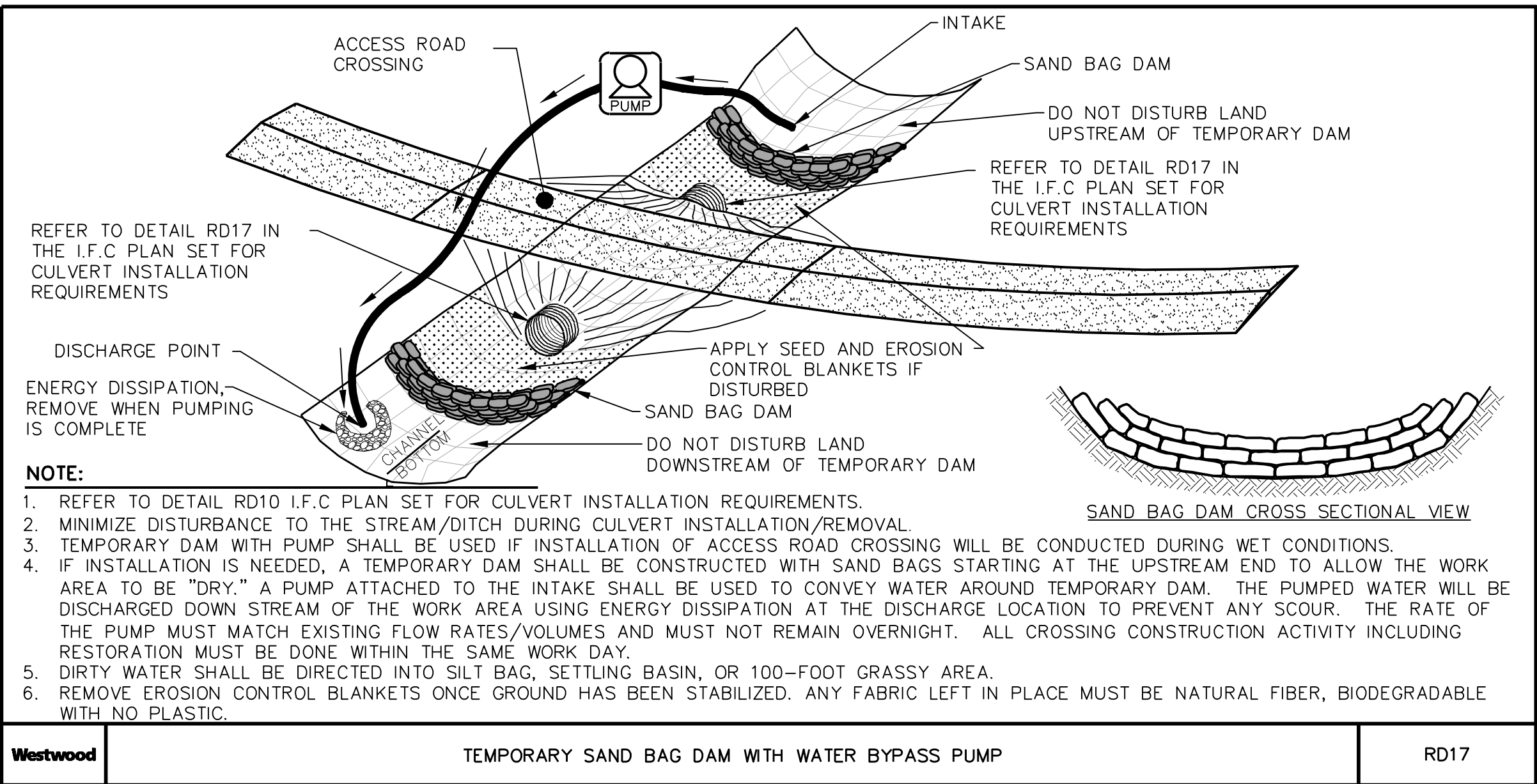
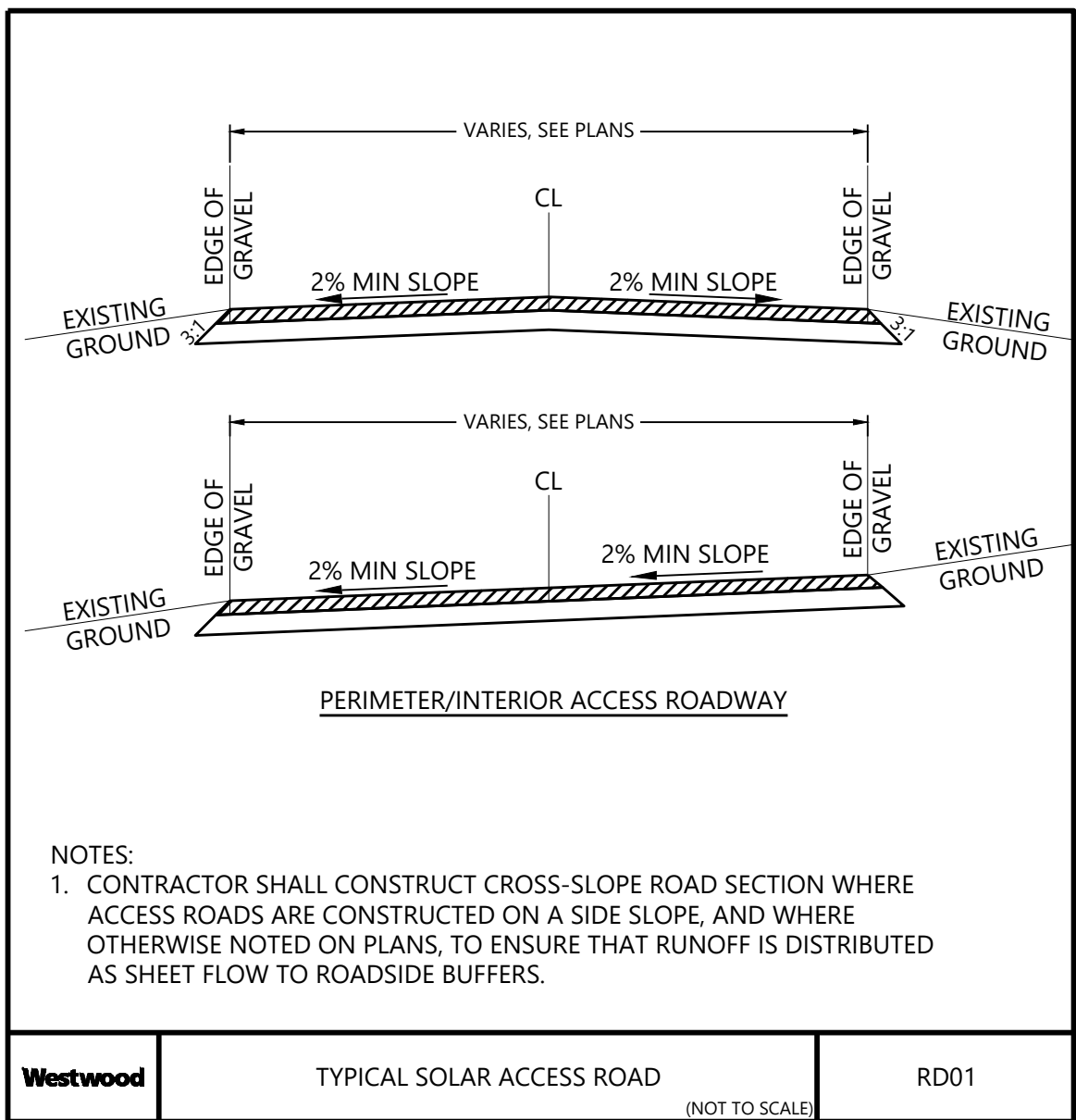
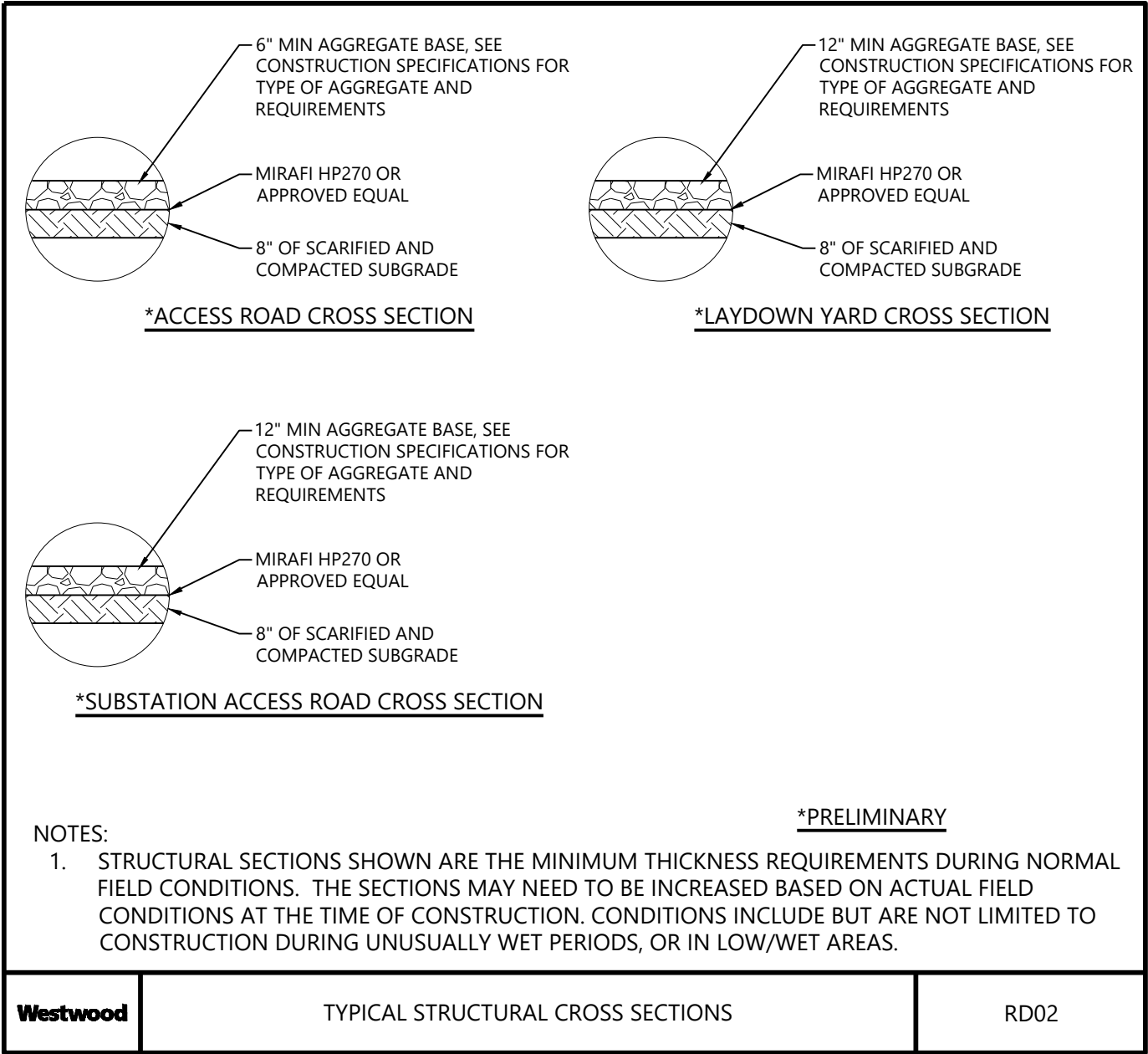
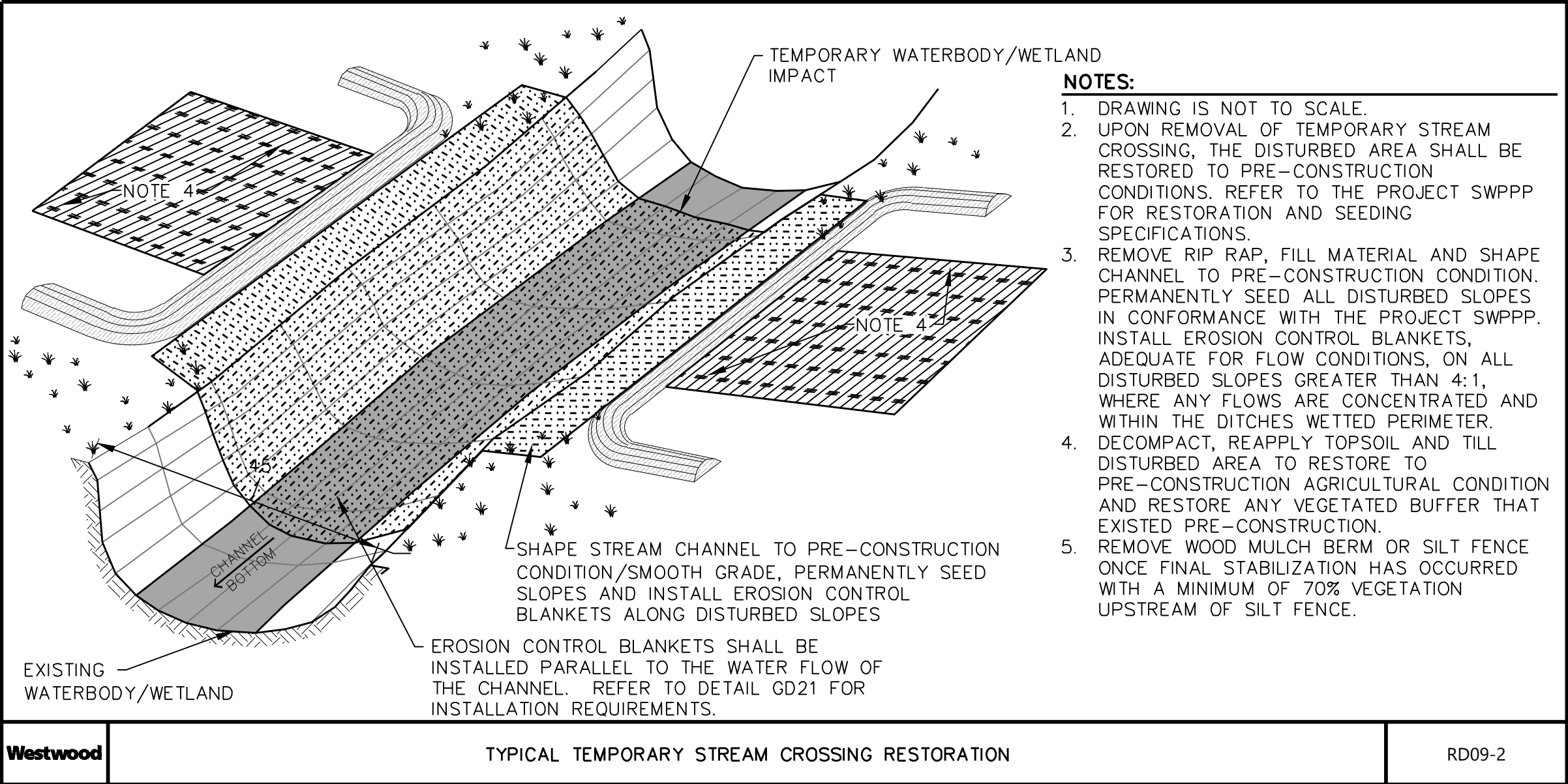
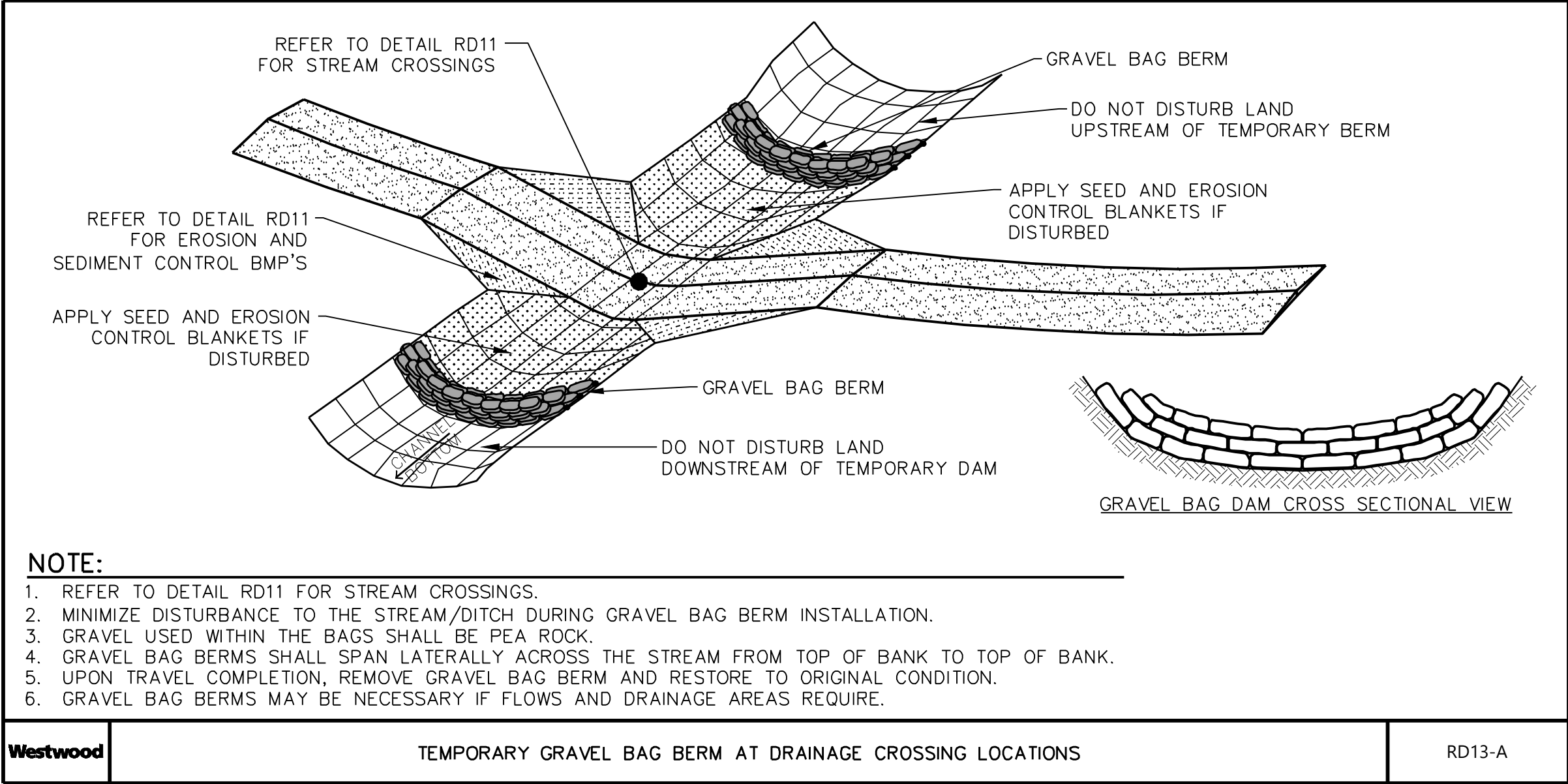


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Cayuga County, New York

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DATE: 09/03/2021

SHEET: C.602

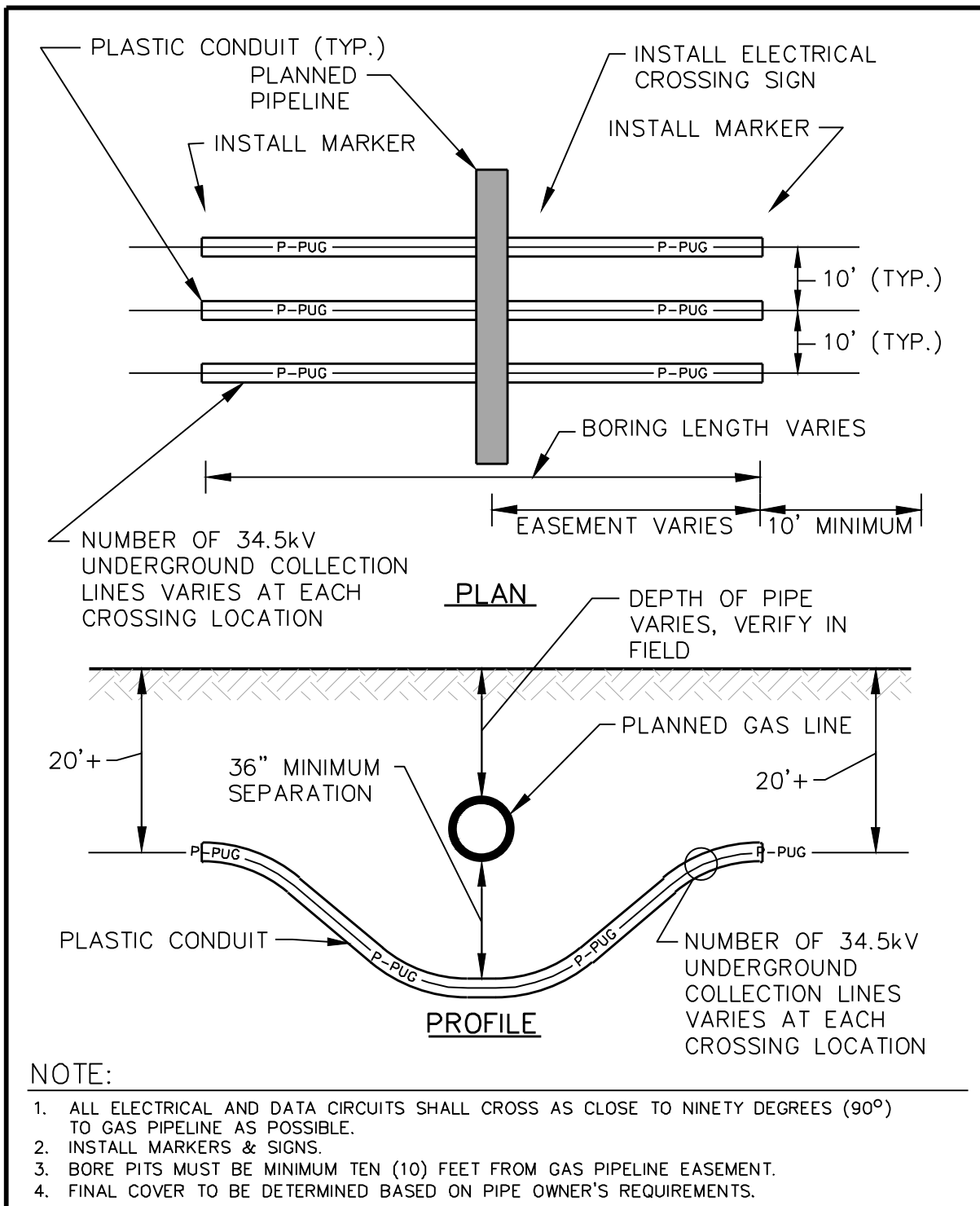
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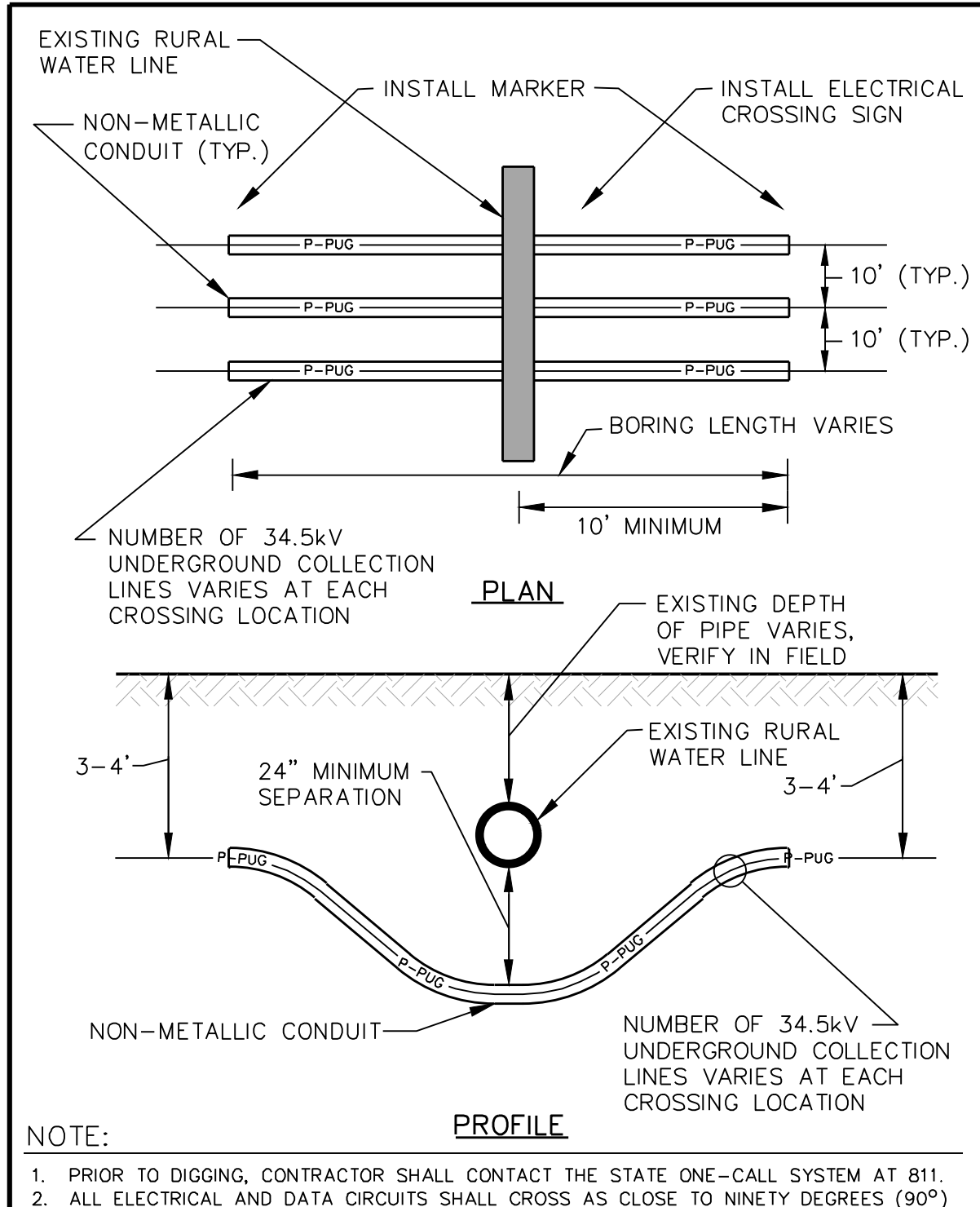
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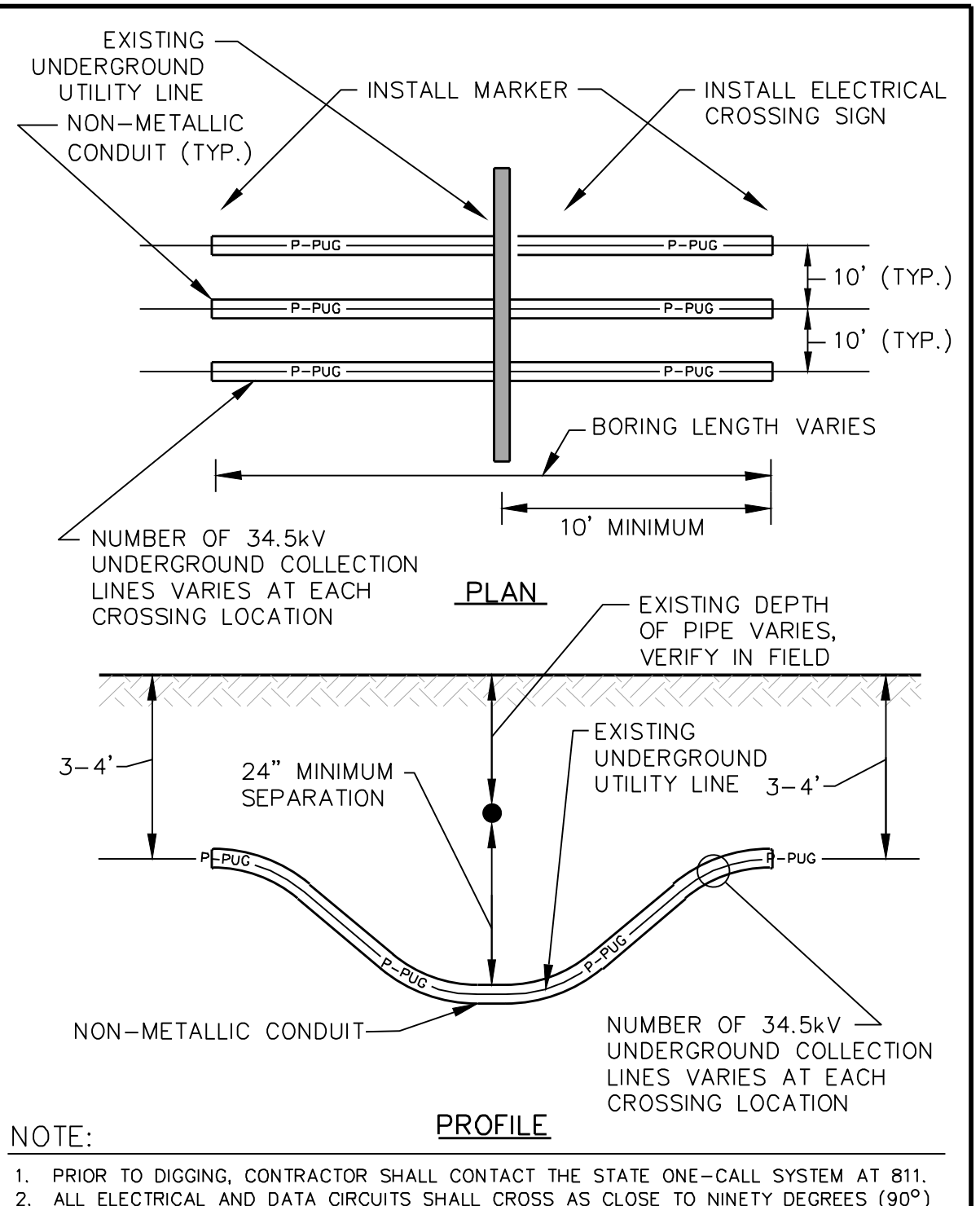
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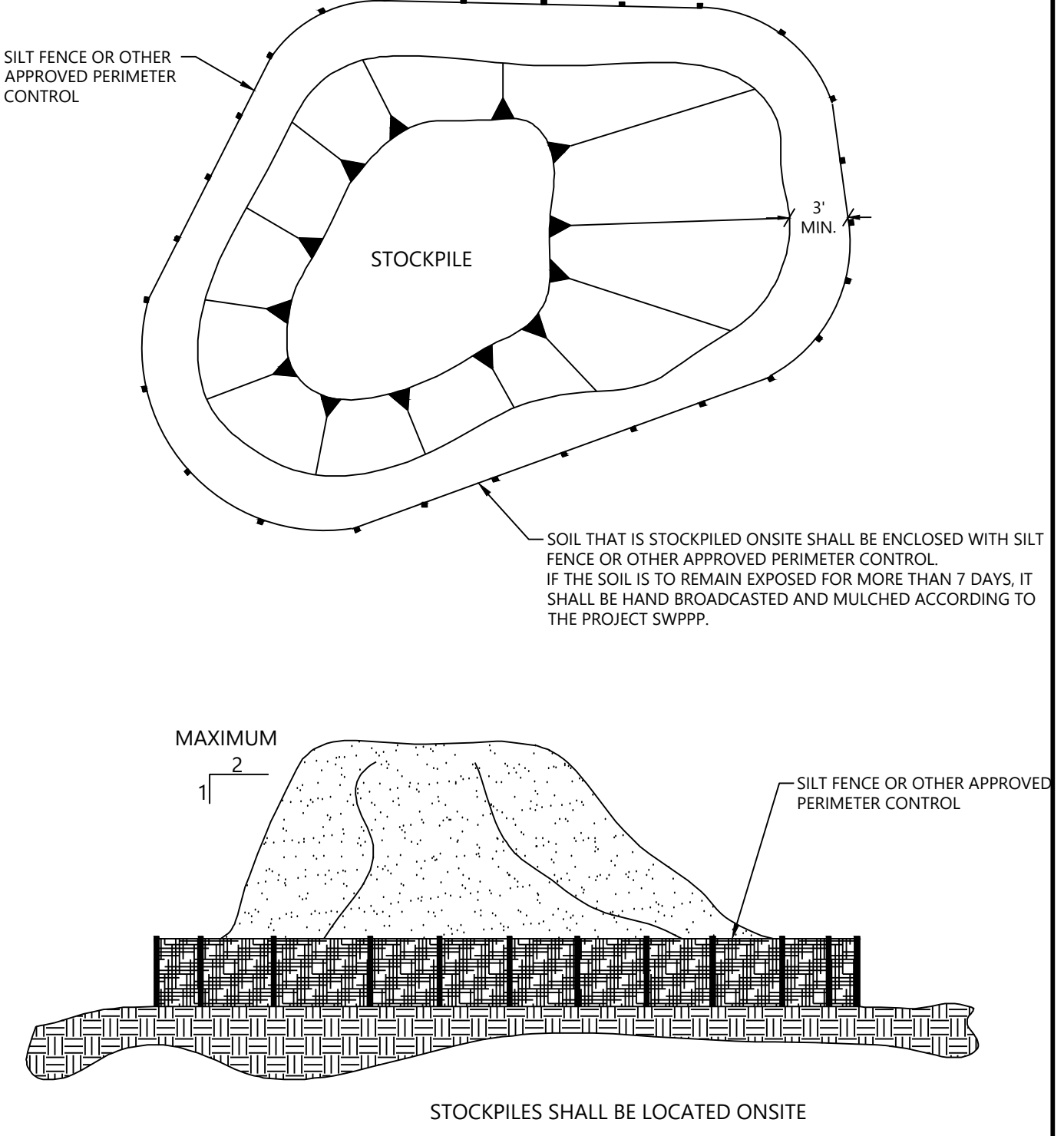
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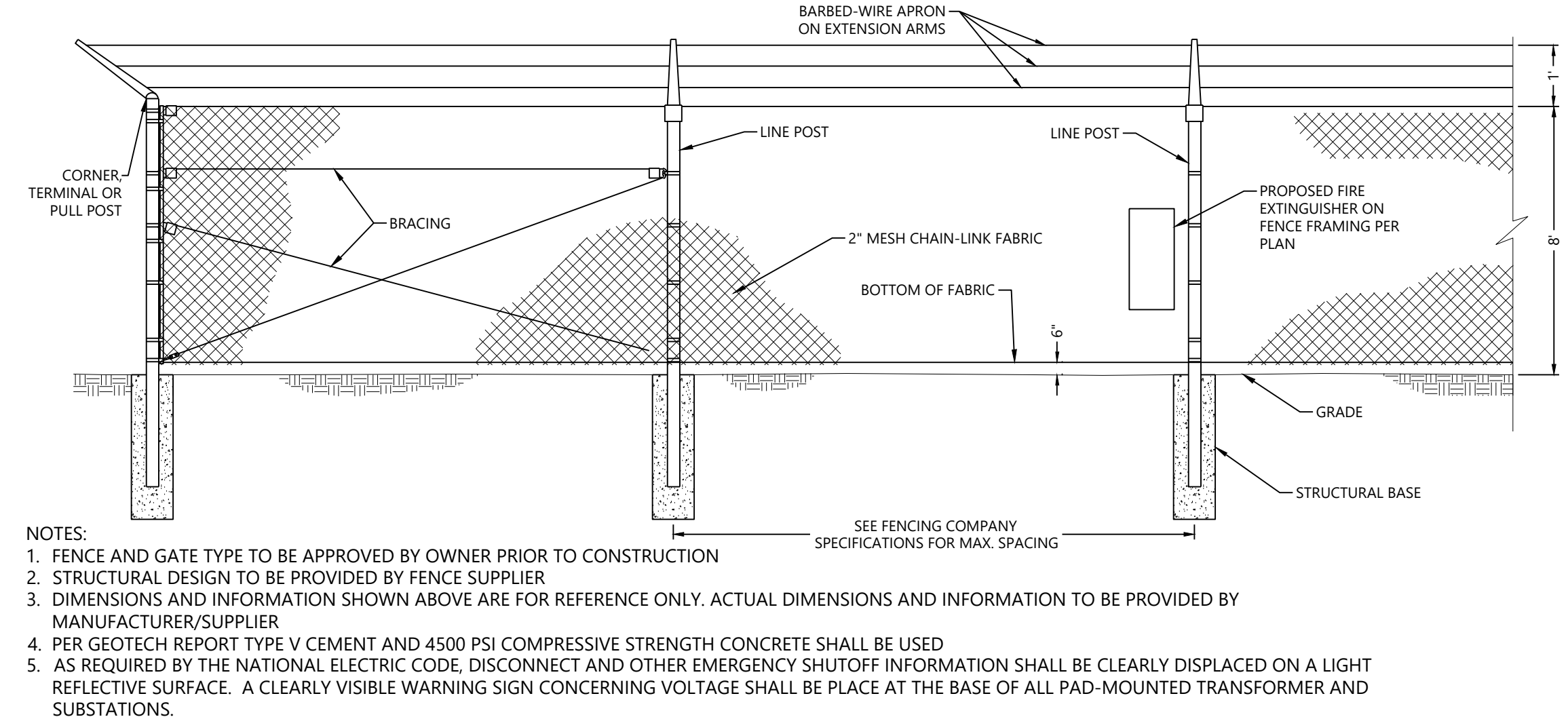
Westwood WATER LINE-ELECTRICAL CROSSING UT04



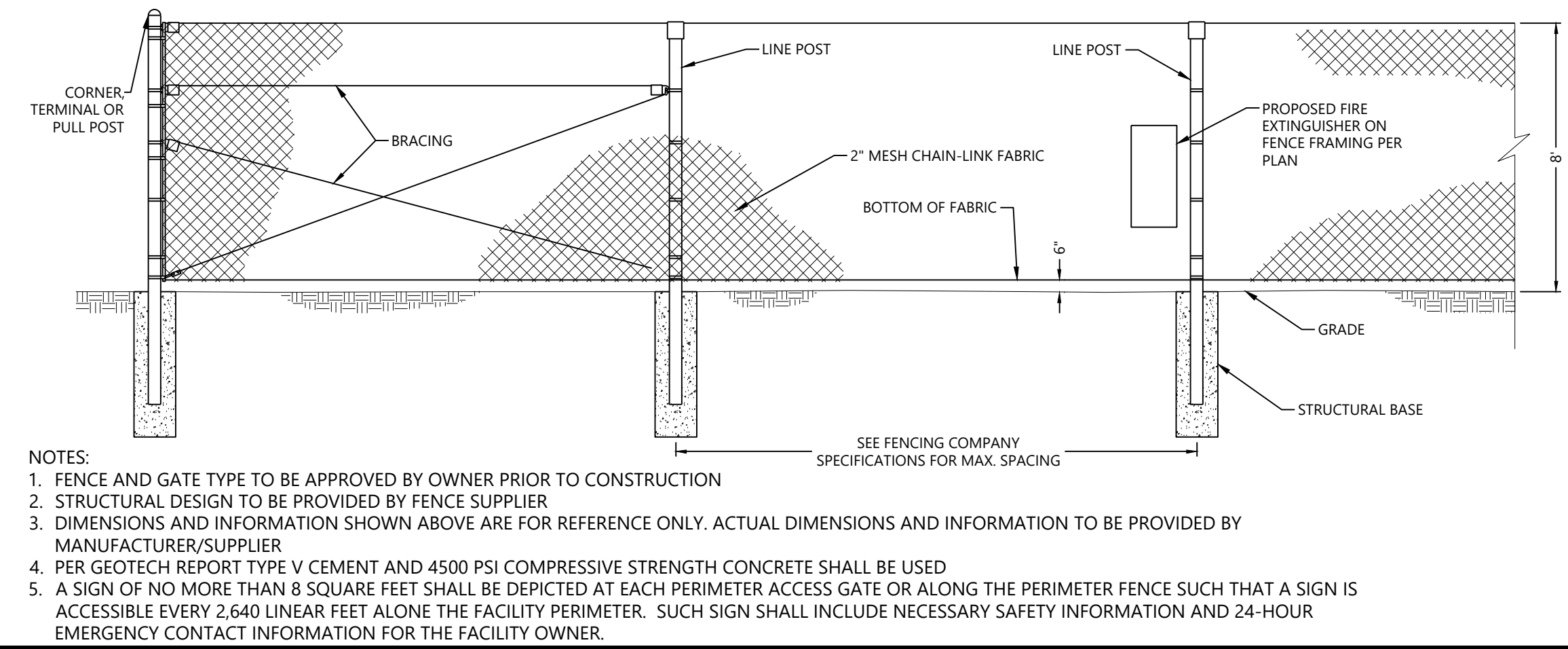
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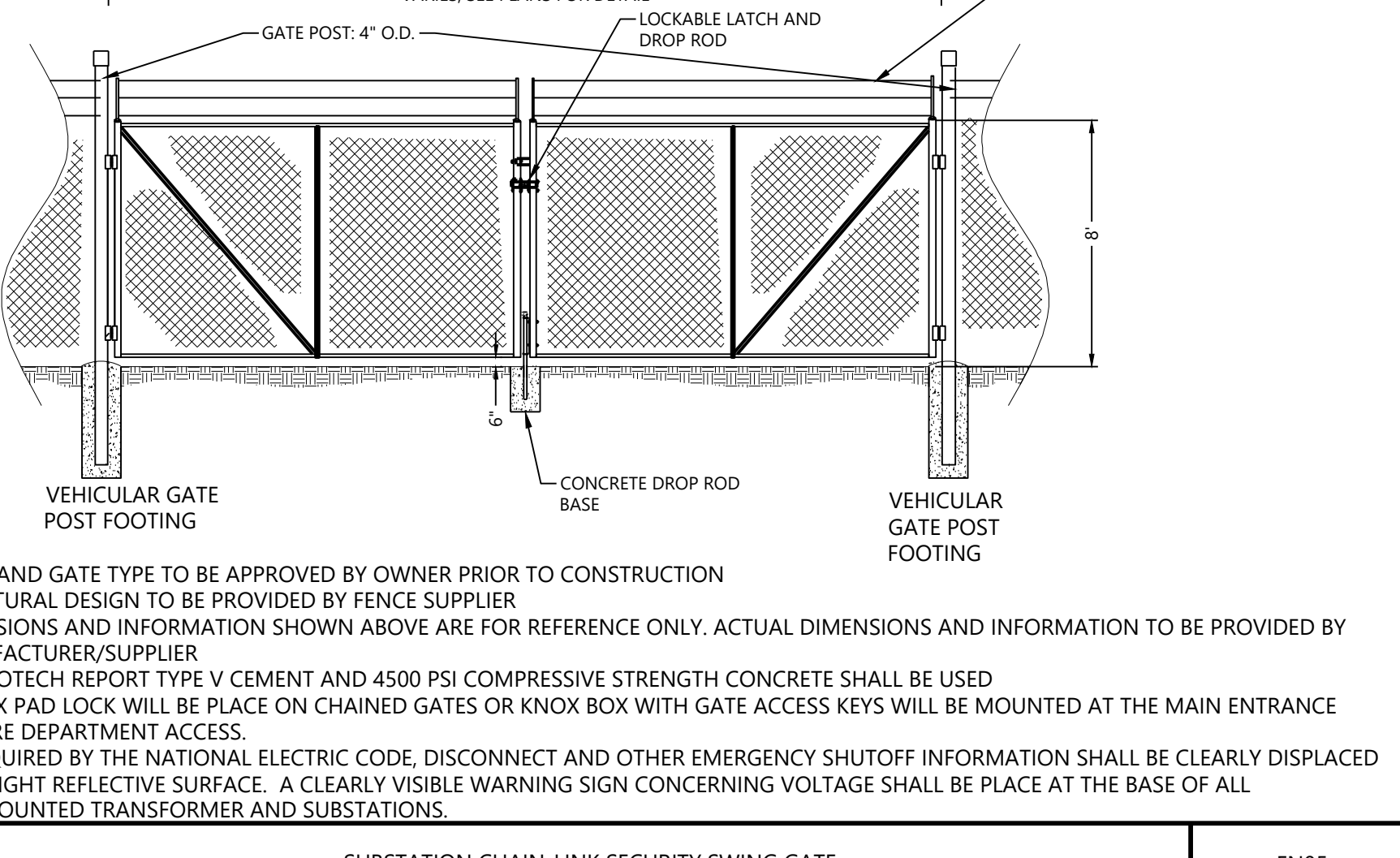
Westwood TYPICAL SOIL STOCKPILE PROTECTION (NOT TO SCALE) SS01



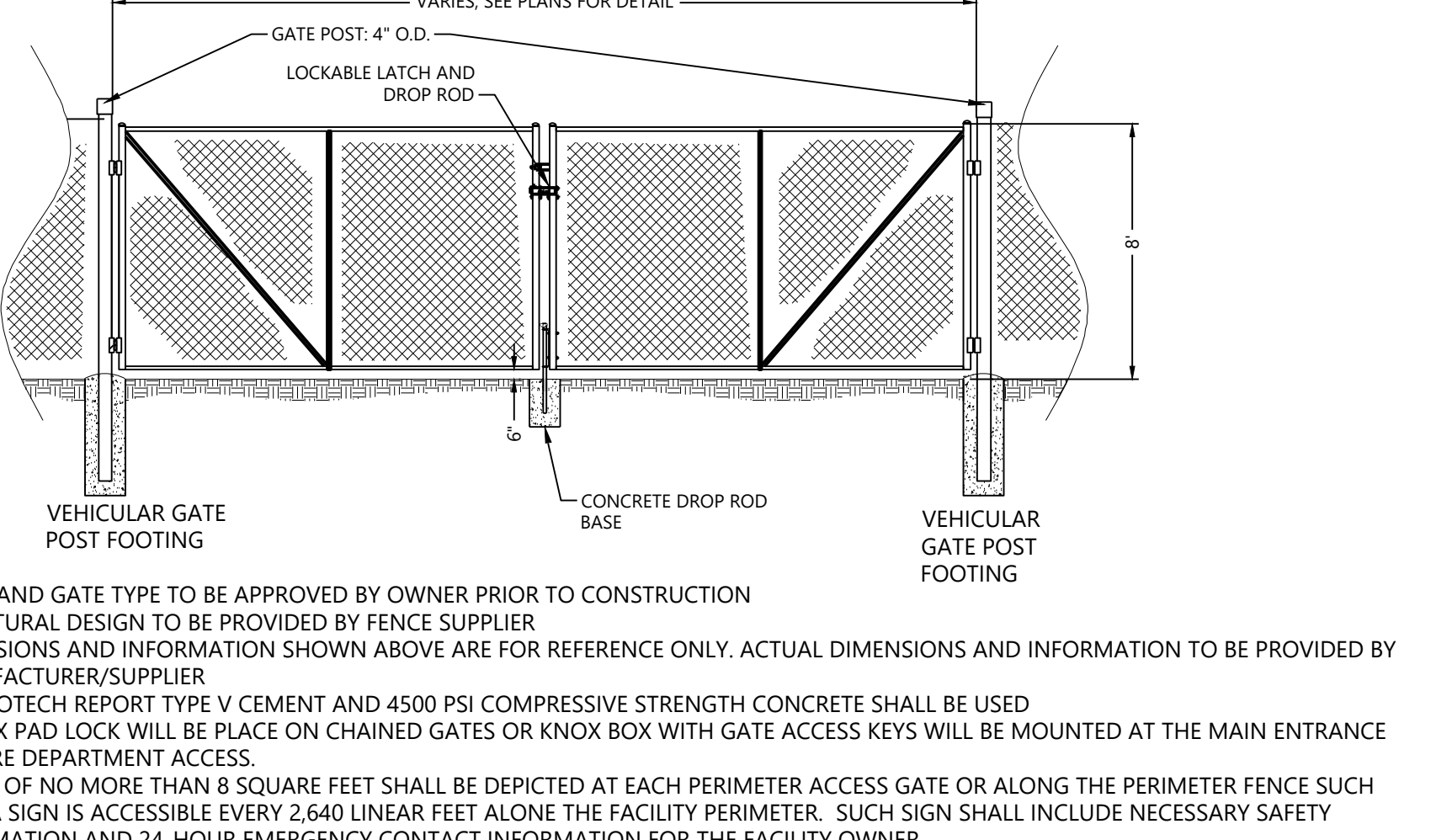
Westwood SUBSTATION CHAIN-LINK SECURITY FENCE DETAIL (NOT TO SCALE) FN01-A



Westwood PERIMETER CHAIN-LINK SECURITY FENCE DETAIL (NOT TO SCALE) FN01-B



Westwood SUBSTATION CHAIN-LINK SECURITY SWING GATE FN05



Westwood PERIMETER SECURITY SWING GATE FN05

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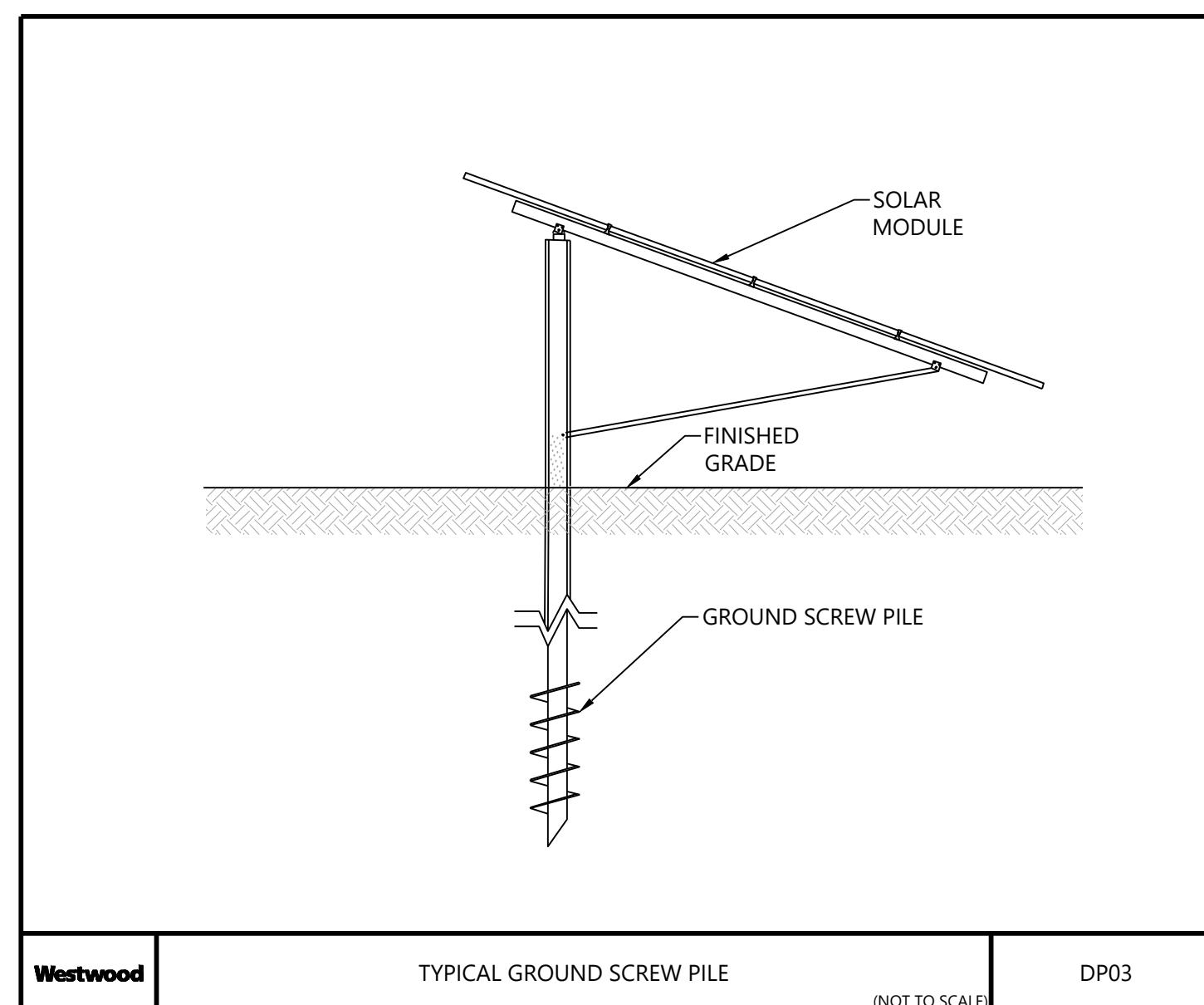
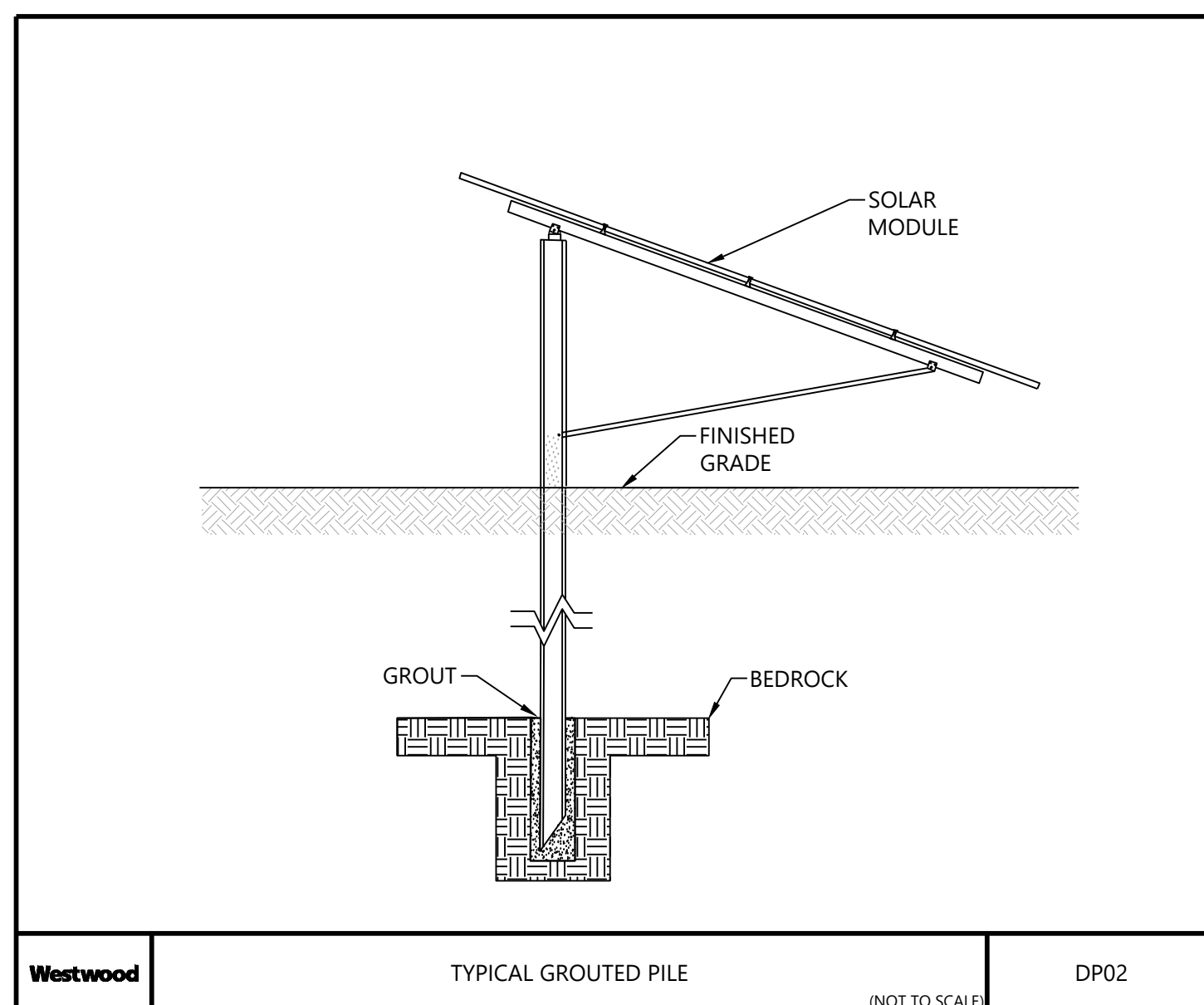
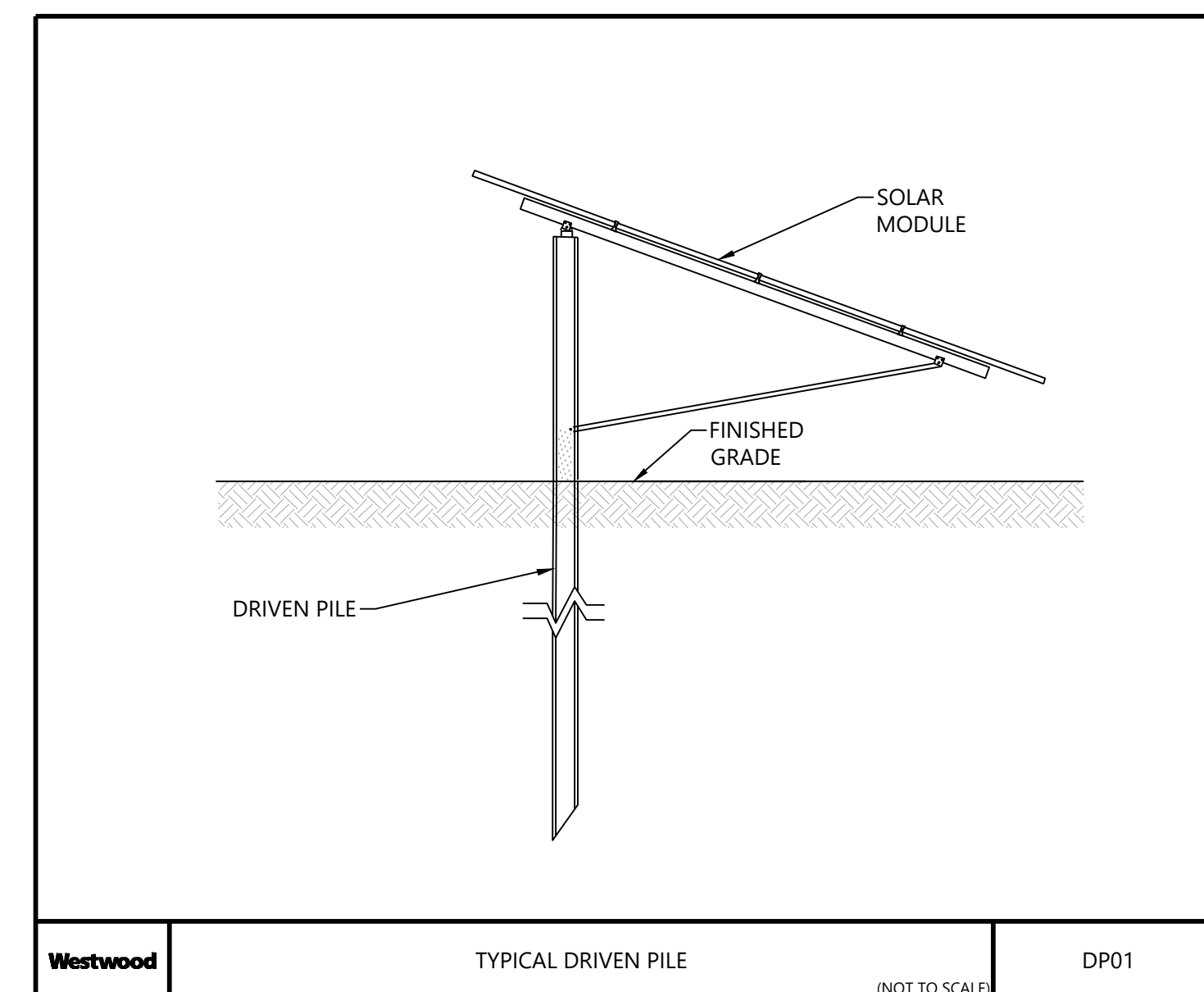
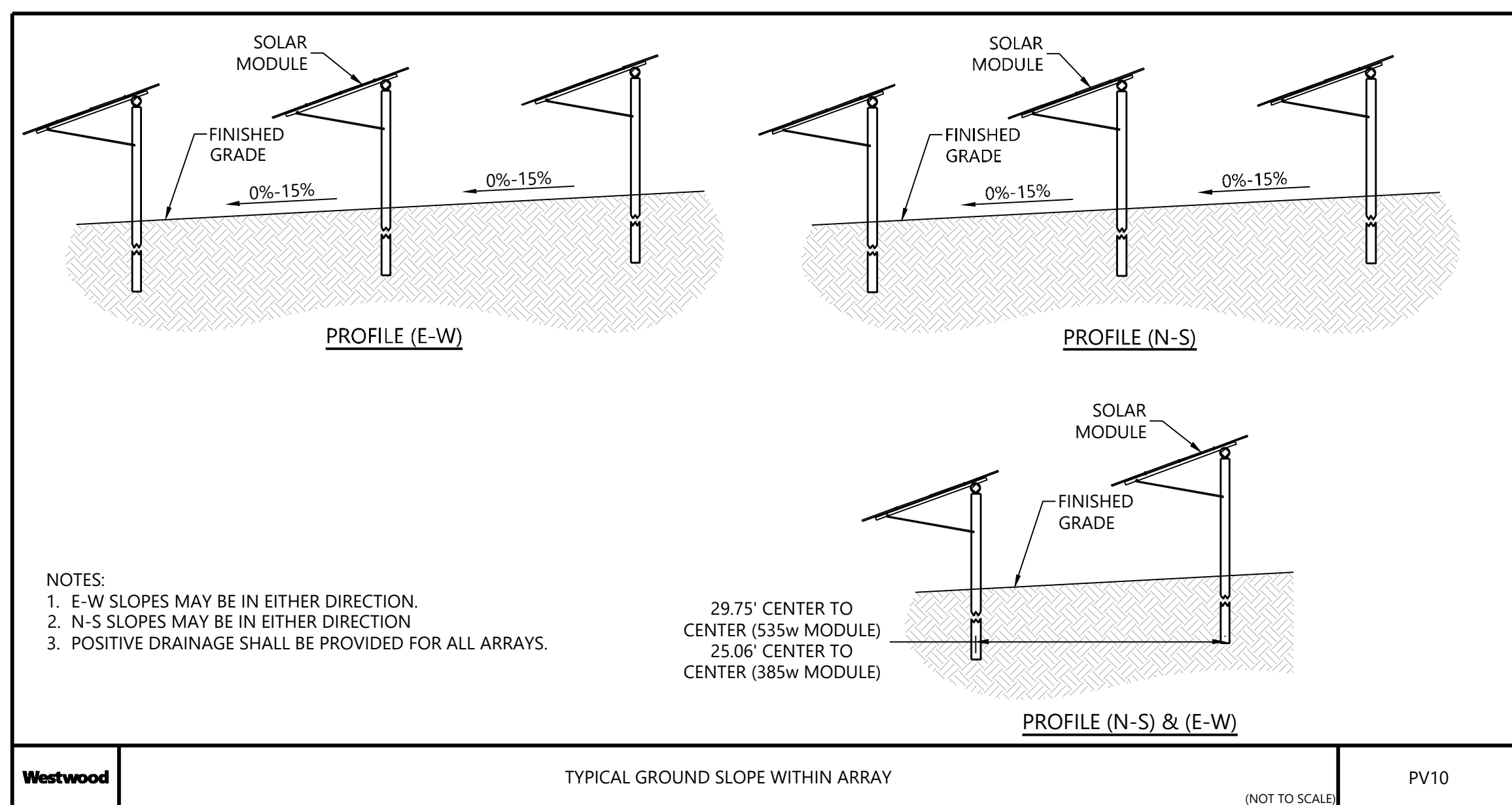
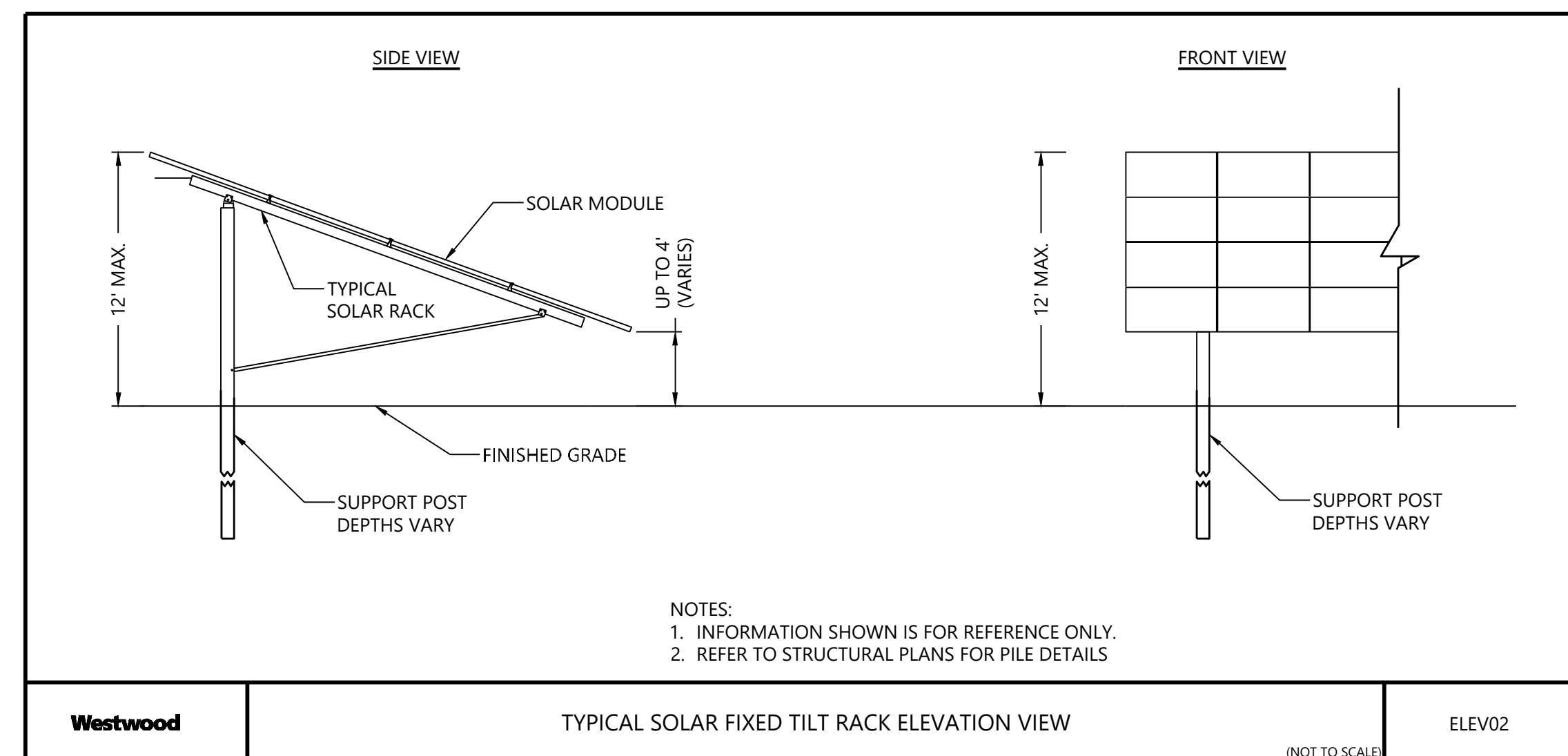
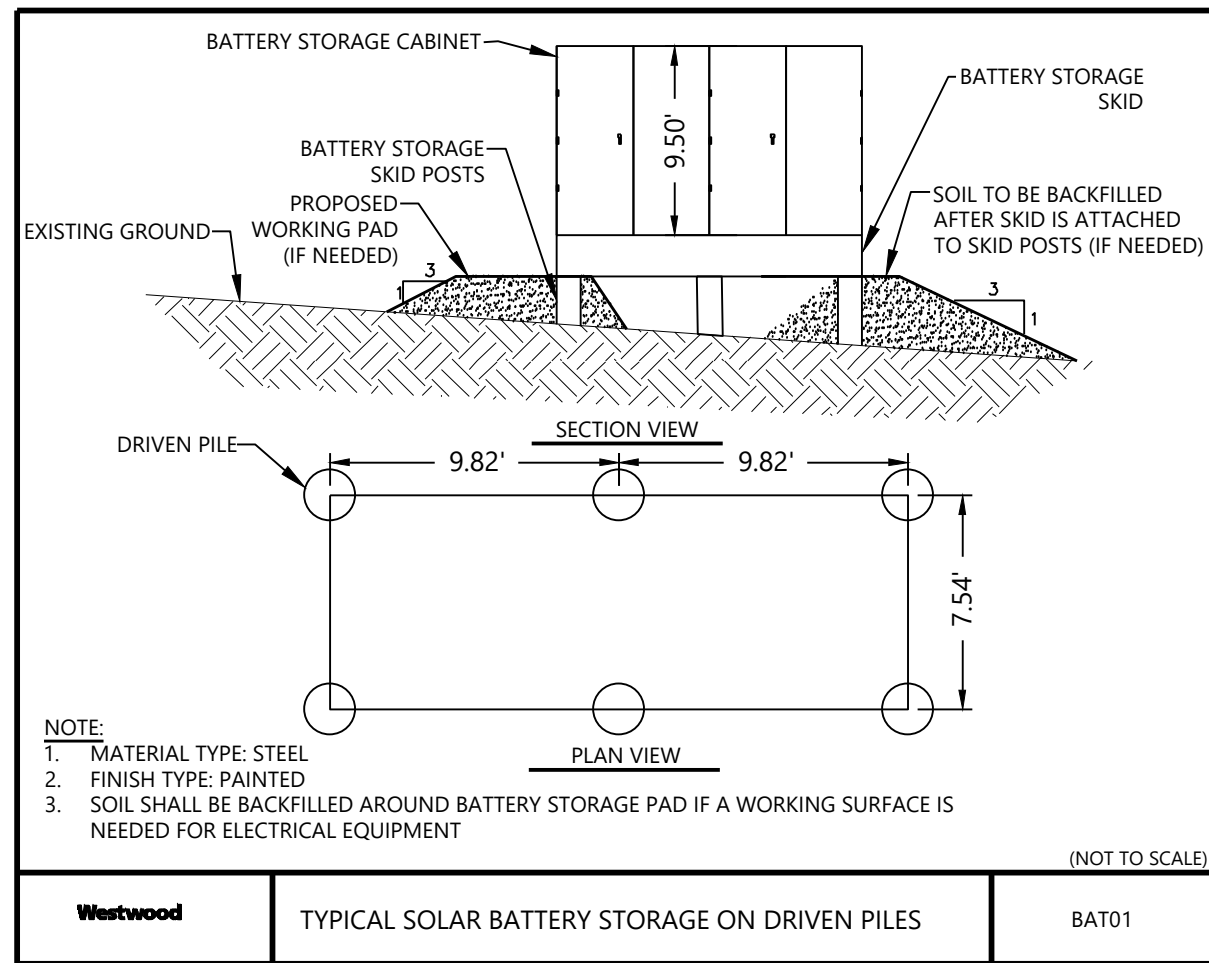
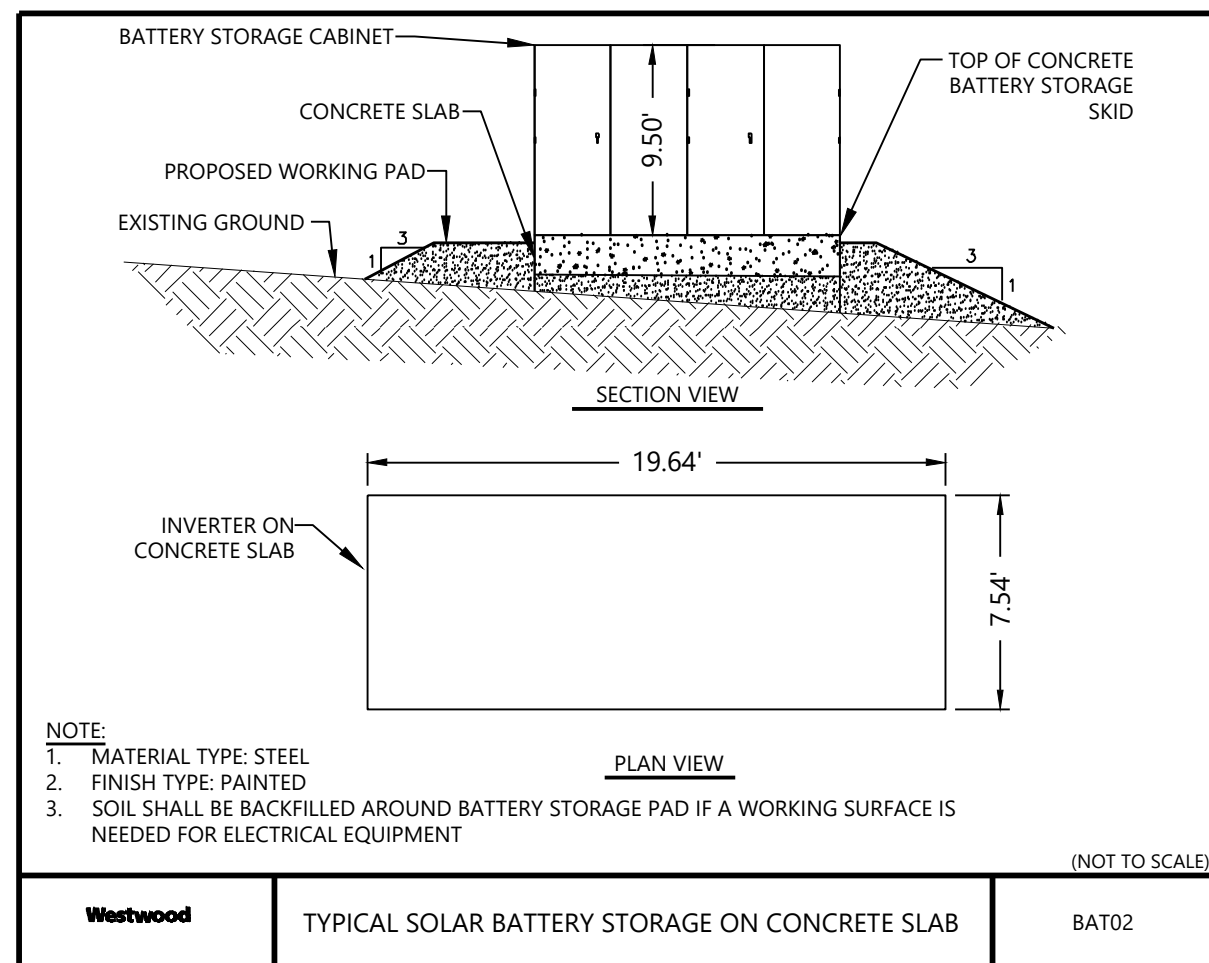
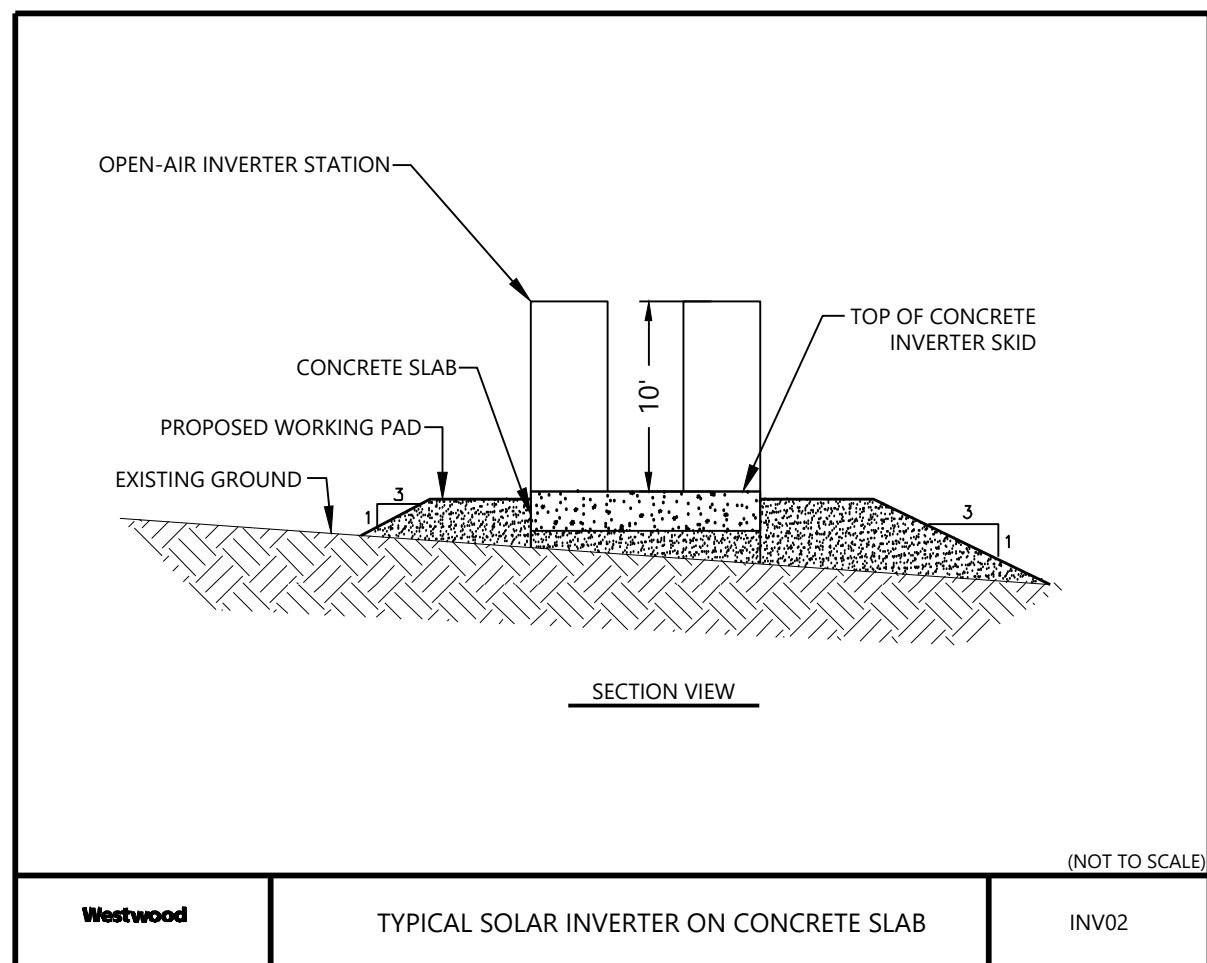
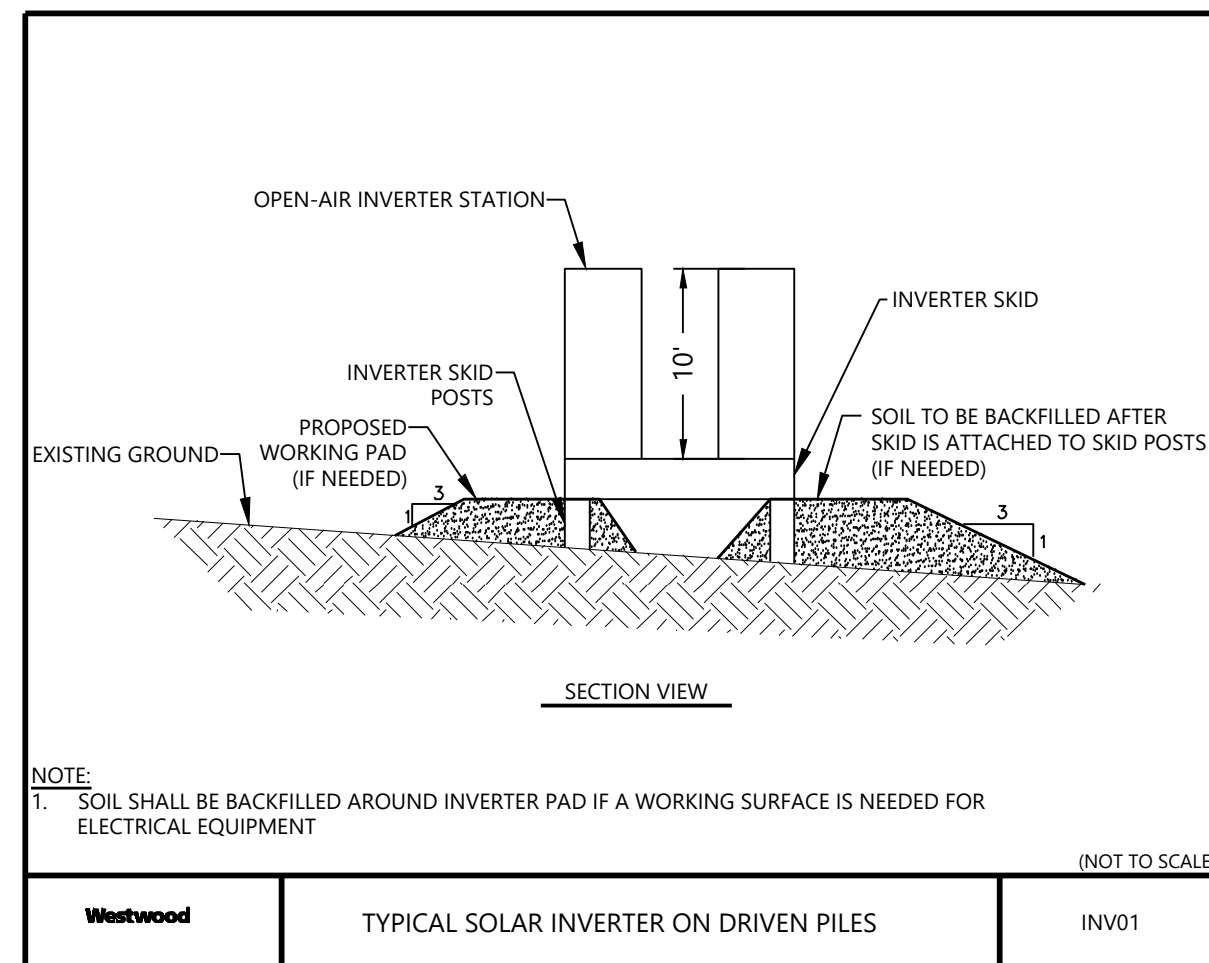
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SHEET: C.603

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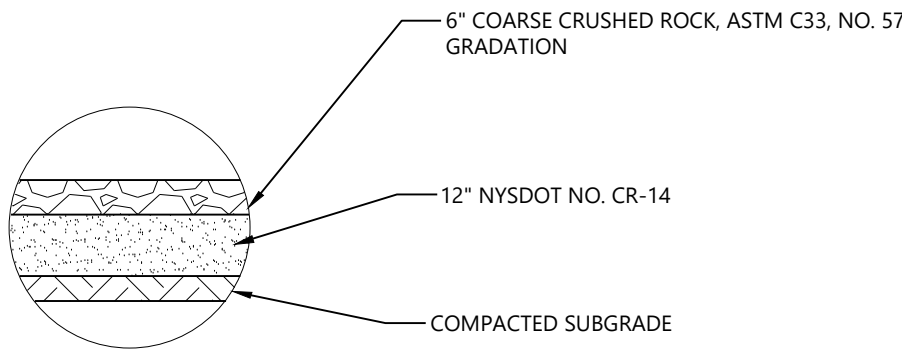
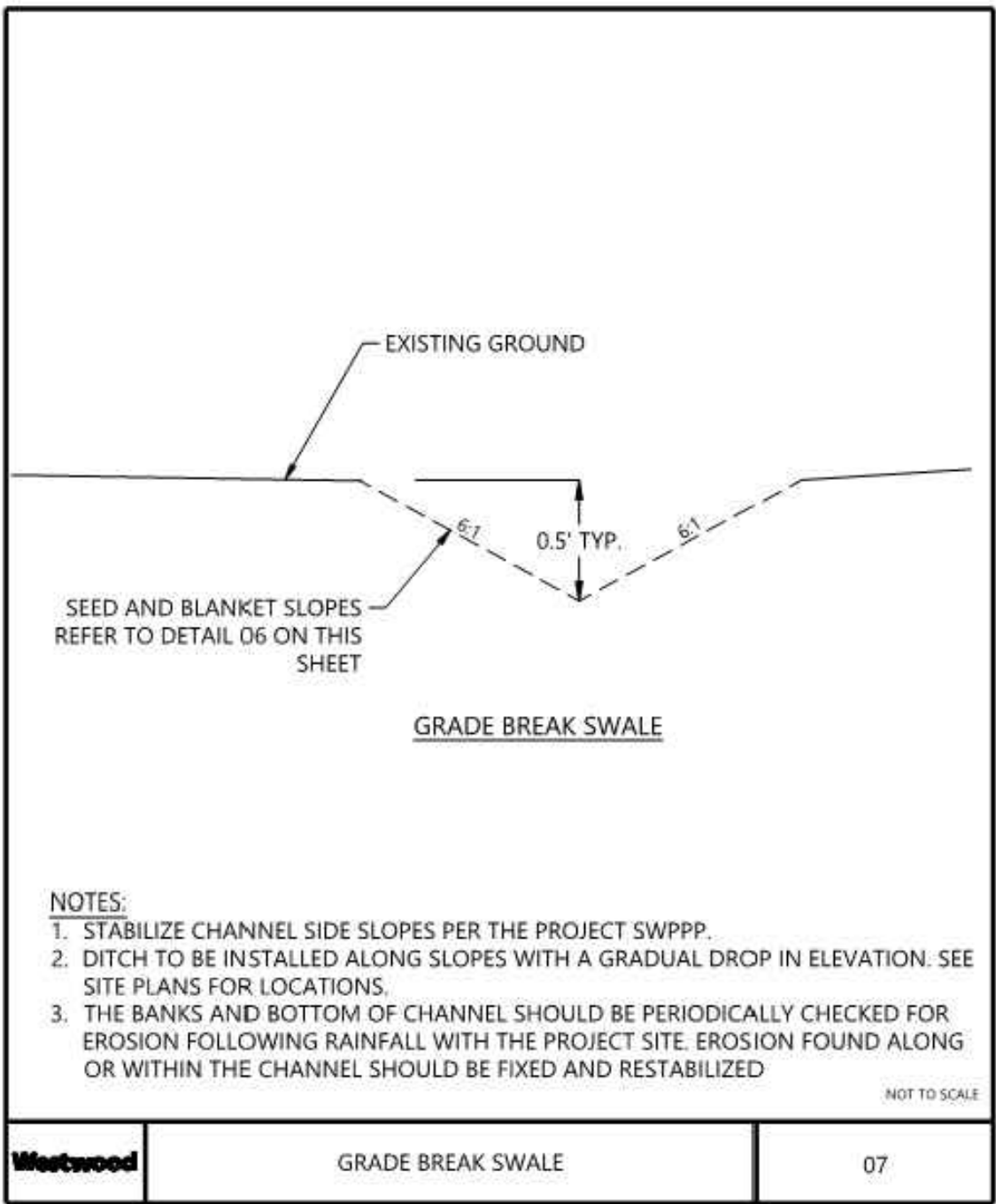
Cayuga County, New York

Construction Details

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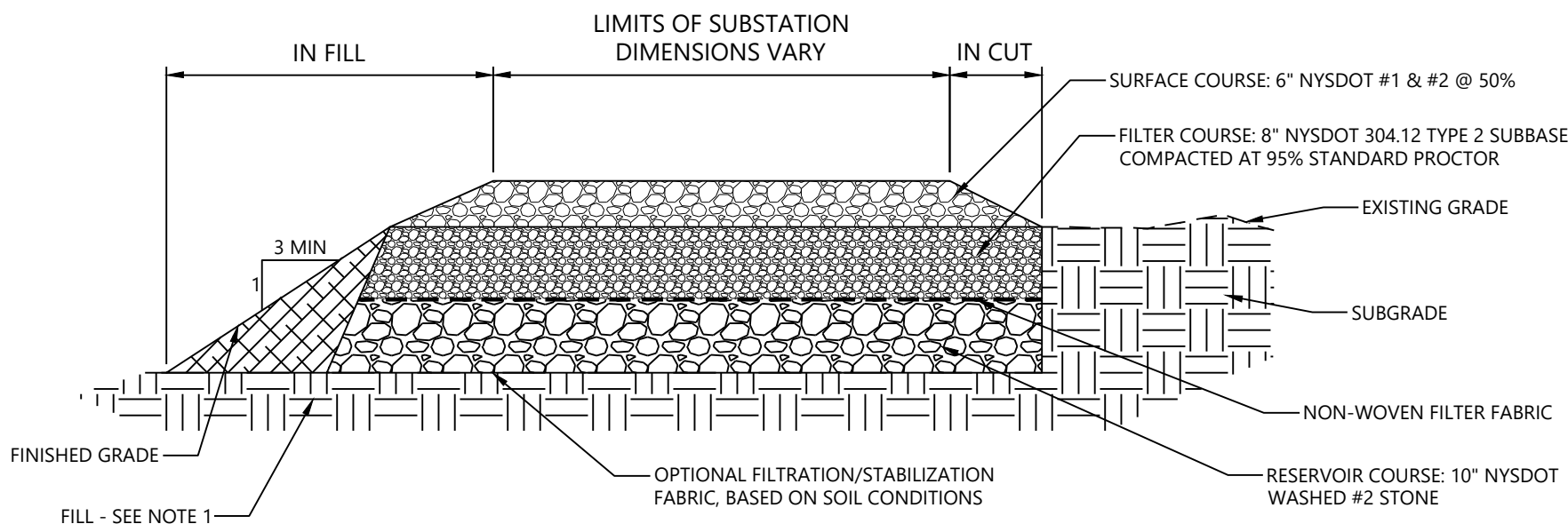
DATE: 09/03/2021

SHEET: C.605



SUBSTATION PAD CROSS SECTION - OPTION 1

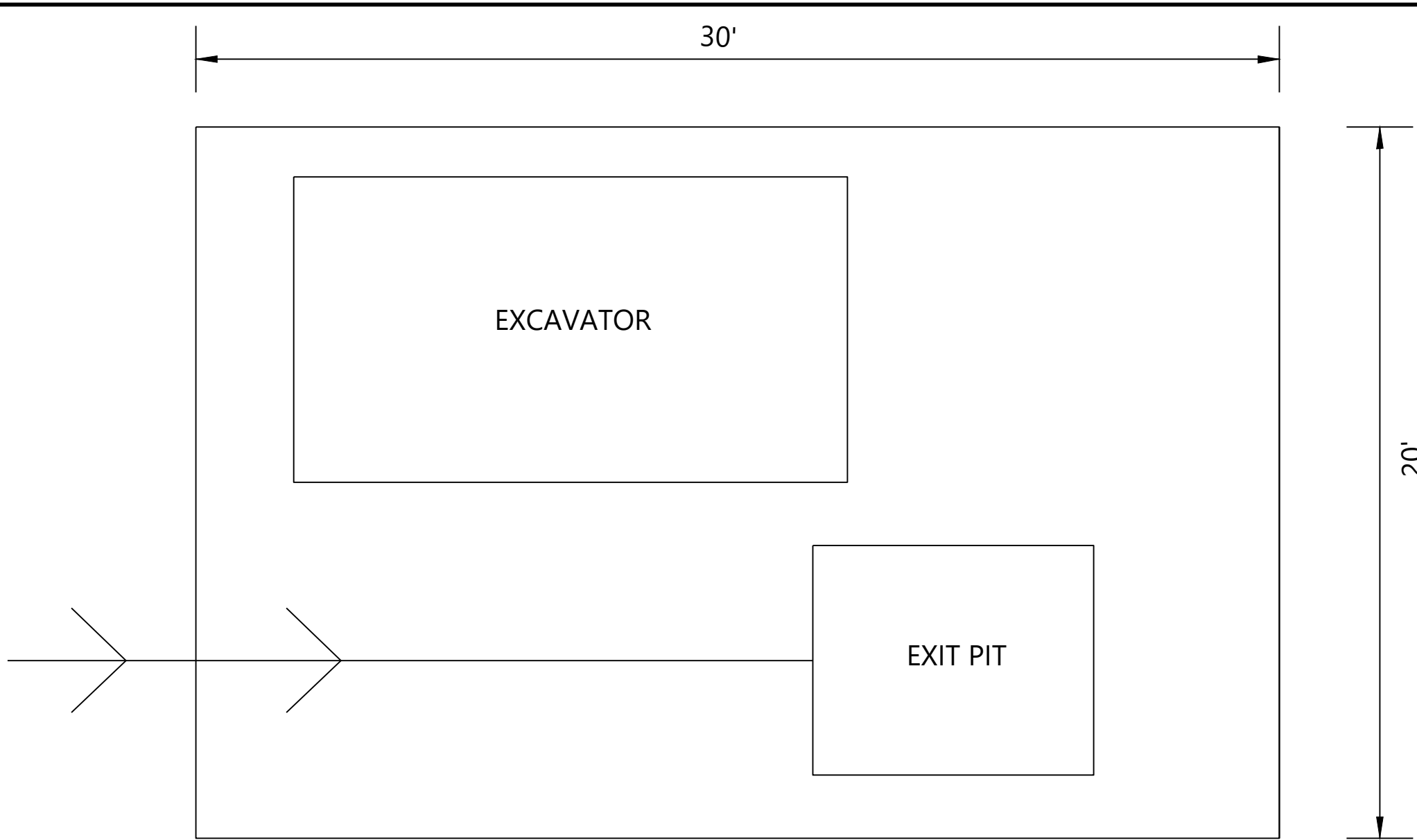
- NOTES:
1. STRUCTURAL SECTIONS SHOWN ARE THE MINIMUM THICKNESS REQUIREMENTS DURING NORMAL FIELD CONDITIONS. THE SECTIONS MAY NEED TO BE INCREASED BASED ON ACTUAL FIELD CONDITIONS AT THE TIME OF CONSTRUCTION. CONDITIONS INCLUDE BUT ARE NOT LIMITED TO CONSTRUCTION DURING UNUSUALLY WET PERIODS, OR IN LOW/WET AREAS.
 2. THIS DETAIL TO BE USED IN CONJUNCTION WITH NY DETAIL (FIGURE 6.12 INFILTRATION BASIN (I-2)). SEE SHEET C.609.



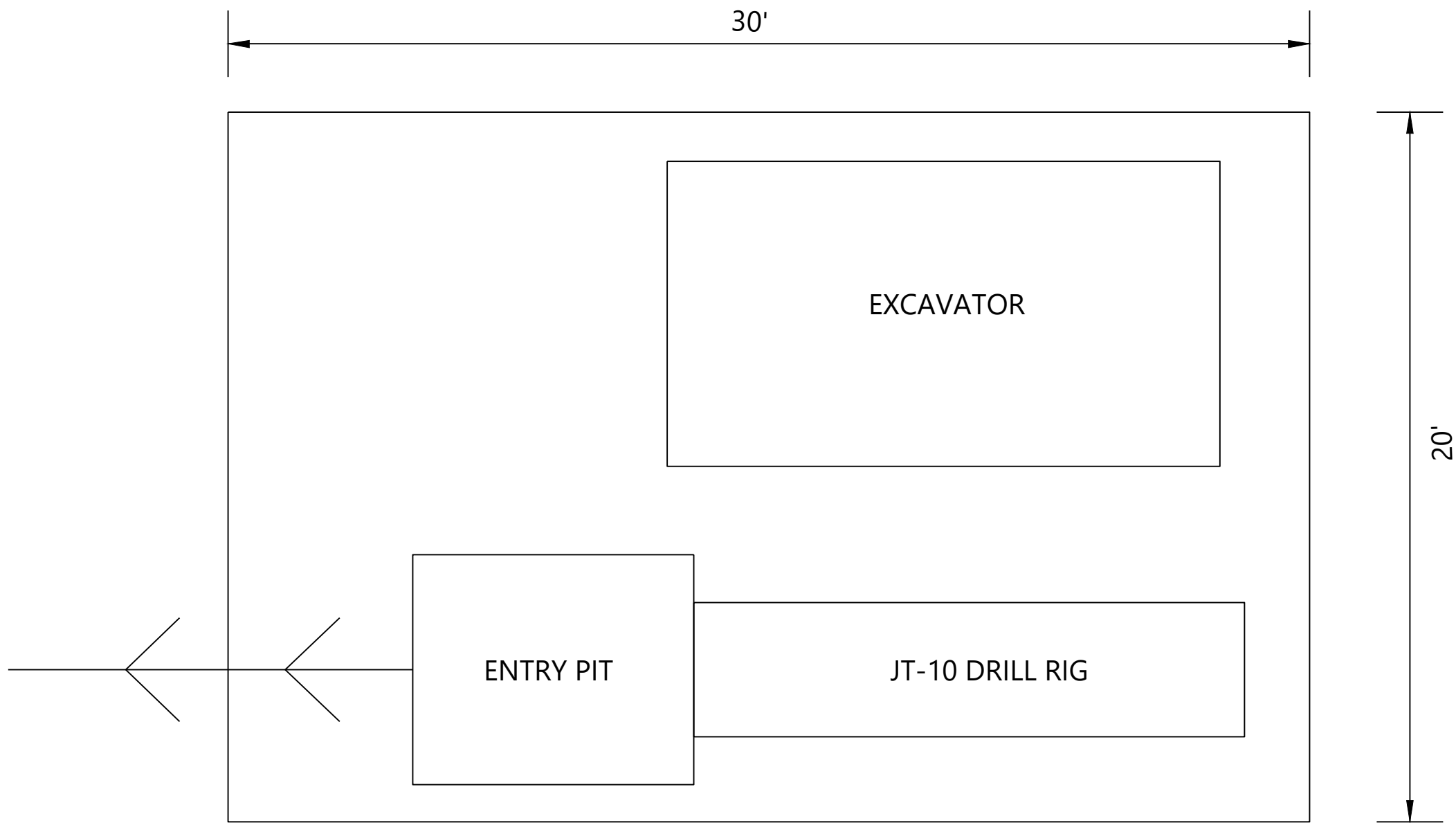
SUBSTATION PAD CROSS SECTION - OPTION 2

- NOTES:
1. ALL FILL USED FOR SIDE SLOPES SHALL BE ONSITE MATERIAL FROM AREA CUT TO CREATE THE SUBSTATION OR SHALL BE OFFSITE FILL COMPACTED TO HAVE AN INFILTRATION RATE LESS THAN THE SUBSTATION SUBGRADE.
 2. INFILTRATION TESTING SHALL BE COMPLETED AS REQUIRED BY APPENDIX D OF THE 2015 NYS STORMWATER MANAGEMENT DESIGN MANUAL, OR AS APPROVED BY THE NYS DEC REGIONAL OFFICE OR M54 REPRESENTATIVE.
 3. THIS SECTION SHALL BE APPLICABLE TO MEET THE STORMWATER MANAGEMENT REQUIREMENTS OF NEW DEVELOPMENT AND REDEVELOPMENT PROJECTS, PER THE 2015 NYS STORMWATER MANAGEMENT DESIGN MANUAL, FOR SITES WITH INFILTRATION RATES OF GREATER THAN OR EQUAL TO 0.5 INCHES PER HOUR.
 4. IF INFILTRATION BASIN PER NY DETAIL (FIGURE 6.12 INFILTRATION BASIN (I-2)) IS NOT USED, CONTRACTOR TO USE THE OPTION 2 CROSS SECTION.

Westwood	SUBSTATION PAD SECTION	RD02
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HDD RECEIVING SITE SCHEMATIC



DRILL OPERATION SITE SCHEMATIC

Westwood	HORIZONTAL DIRECTIONAL DRILLING PIT SCHEMATIC (NTS)	HDD-01
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CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS - NOT LESS THAN SIX (6) INCHES.
4. WIDTH - TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED BEHIND THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 3:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS,
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

STABILIZED CONSTRUCTION ACCESS

[illegible]

SYMBOL

↗ ↘

The diagram illustrates the construction and application of a temporary access culvert. It includes a plan view and two cross-sections.

Plan View: Shows a culvert structure with aggregate fill and a filter cloth. The culvert is shown in a plan view, with the aggregate fill and filter cloth clearly labeled.

Cross-Sections: Two cross-sections are provided to show the culvert's performance under different conditions:

- HIGH FLOW AREA:** The culvert is shown under high flow conditions, with steep banks on either side. The aggregate fill and filter cloth are labeled.
- FLAT BANKS:** The culvert is shown under flat bank conditions, with the aggregate fill and filter cloth labeled.

SYMBOL: A symbol is provided for the culvert, consisting of a line with a crossbar and a small circle at the end, indicating the culvert's location on a plan.

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS,
 NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
 NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

TEMPORARY ACCESS
 CULVERT

The technical drawings illustrate the construction specifications for a stone check dam. The top drawing shows a plan view of the dam structure, indicating the spacing varies depending on channel slope, with a crest width of 24 inches maximum at center. A cross-section profile is shown below it, labeled 'PROFILE NOT TO SCALE', depicting the ditch bottom, cutoff trench section bottom, filter fabric, and ground line. The profile includes dimensions such as 9' minimum width, 15' minimum height, and a crest width of 24 inches maximum at center. The bottom drawing shows another cross-section, labeled 'SECTION B-B NOT TO SCALE', which is similar to the first but includes a filter fabric layer at the base. The drawings are accompanied by a list of construction specifications.

CONSTRUCTION SPECIFICATIONS

- STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
- SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
- EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
- PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
- ENSURE THAT CHANNEL APPEARANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

MAXIMUM DRAINAGE AREA 2 ACRES.

ADAPTED FROM DETAILS PROVIDED BY: USDA - NRCS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION, NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE	STONE CHECK DAM
--	------------------------

CROSS SECTION

STORAGE AREA
C MIN.
EXISTING GROUND
SLOPE 2:1 OR FLATTER
D MIN. LEVEL
CROSS SECTION

PLAN VIEW

POSITIVE DRAINAGE: 0.5% OR STEEPER DEPENDENT ON TOPOGRAPHY
OUTLET AS REQUIRED
SEE ITEM 8 BELOW

CONSTRUCTION SPECIFICATIONS

- ALL CONSTRUCTION DITCHES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
- DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
- DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SLOPE.
- THE DITCH SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPED EROSIONAL FLOW.
- FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
- ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DITCH.
- STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW:

TYPE OF TREATMENT	CHANNEL GRADE	4" OR 6" OR LESS	8" OR 10" OR 12"
1	0% - 30%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	31% - 50%	SEED AND STRAW MULCH	SEED AND COVER USING RECP
3	51% - 80%	SEED AND COVER WITH RECP	LINED WITH 4" - 8" RIP-RAP OR GEOTEXTILE
4	81 - 10%	LINED WITH 4" - 8" RIP-RAP OR GEOTEXTILE	SITE SPECIFIC DESIGN

- PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED EACH RAIN EVENT.

ADAPTED FROM DETAILS PROVIDED BY USDA - NRCS.
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

CONSTRUCTION DITCH

Trench Breaker (also known as trench plugs) Spacing
(Adapted from the Pennsylvania State Standards)

Slope (%)	Spacing (feet)
0-5	Not Required except at stream or water body crossings
5 - 15	300
>15 - 30	200
>30	100

Notes:

1. Trench breakers are required upslope of all stream, river, or water-body crossings regardless of trench slope.
2. Depending on the specific conditions of slopes exceeding 40%, the spacing between trench breakers may continue diminishing as illustrated, or may cease once a spacing of 33 feet has been reached.
3. Trench breakers shall be sand bags or earth filled sacks (not topsoli), which are durable yet flexible and will conform to gradual shifting of pipeline and backfill, while serving their function, to impede the flow of subsurface water along the trench. Alternatively, cement filled bags or mortared stone may be used.
4. In agricultural lands, the top of trench breaker will not be closer than two feet from the restored surface.

Figure 12 Trench breakers (also known as trench plugs) should be placed in the trench before crossing water bodies and spaced in the trench based on the percent slope. These reduce trench erosion and trench water at the bottom of the slope. (Illustration from New York Department of Agricultural Pipeline Standards.

Cayuga County, New York

New York Erosion Control Details

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FIGURE 3.6
FLOW DIFFUSER DETAIL

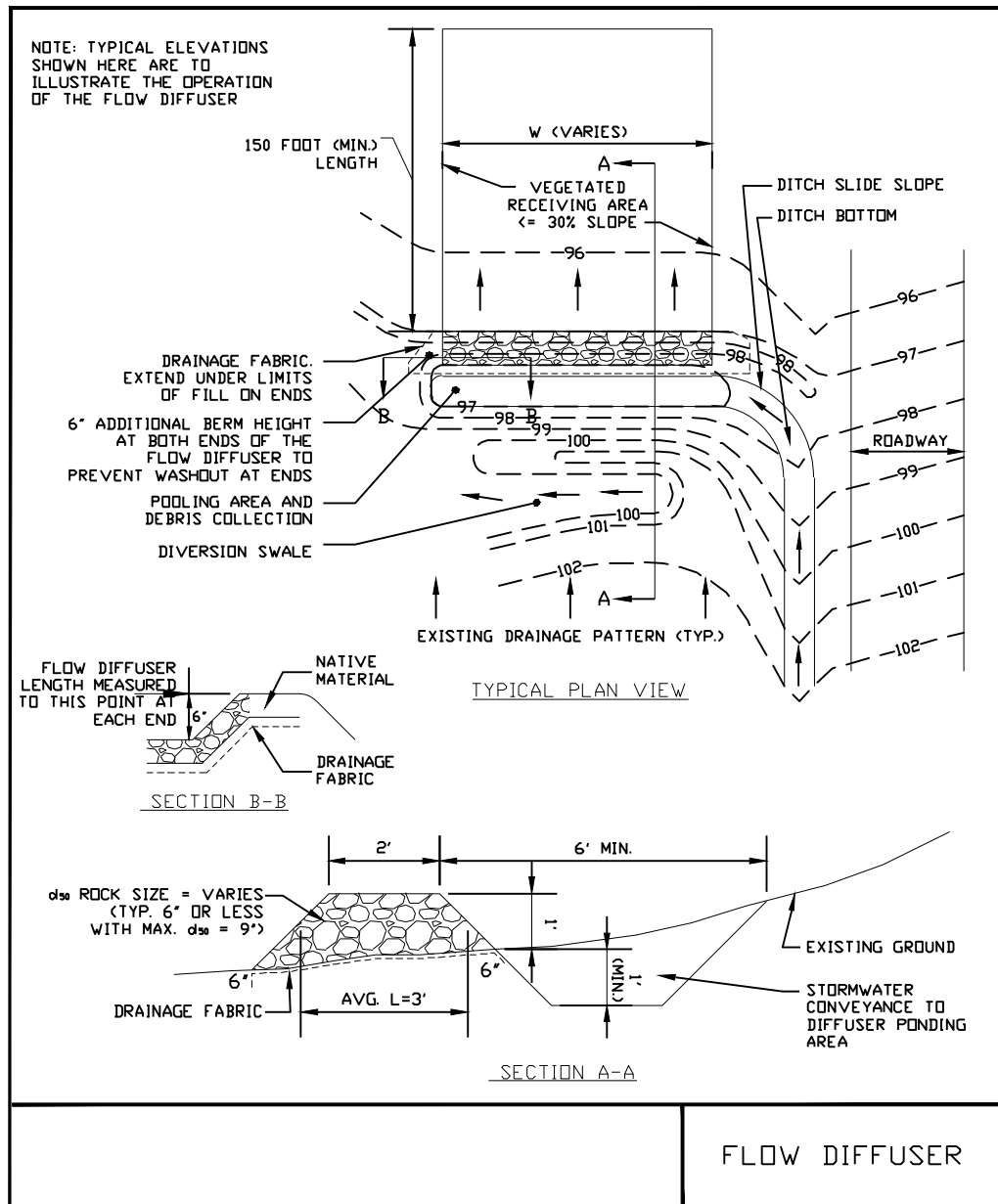


FIGURE 3.18
RIPRAP OUTLET PROTECTION DETAIL (1)

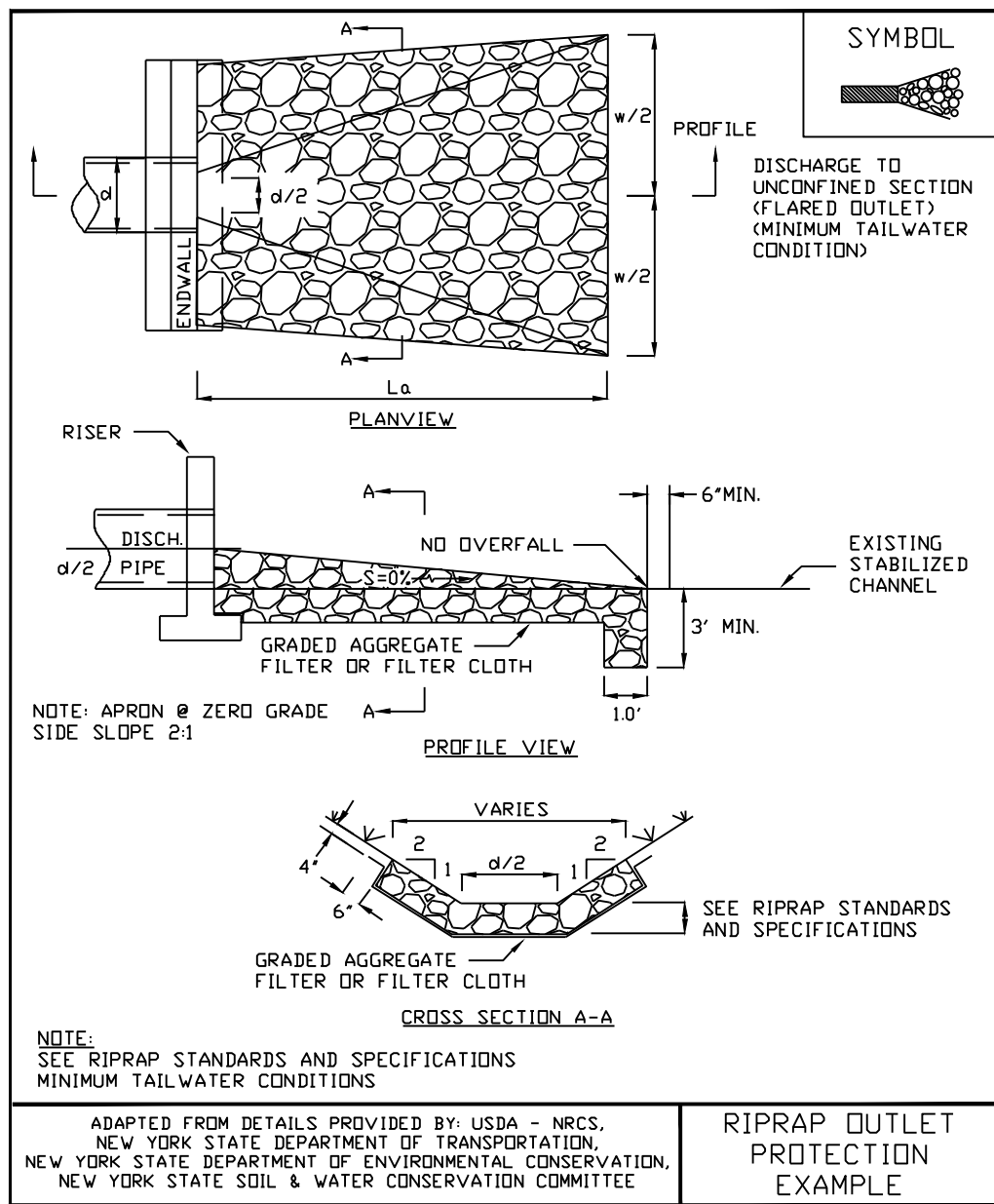
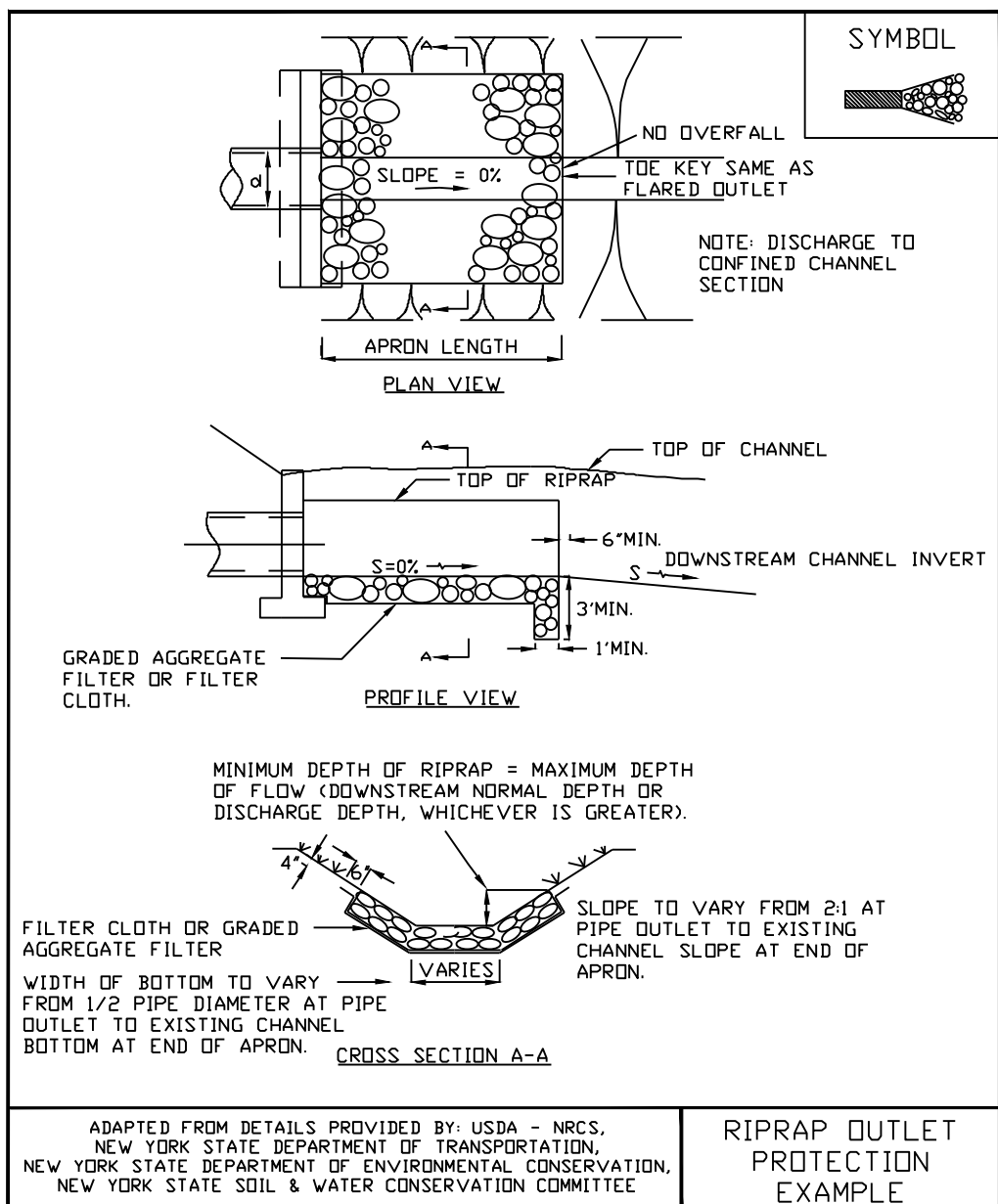


FIGURE 3.19
RIPRAP OUTLET PROTECTION DETAIL (2)



SCHEDULE FOR STORM DRAIN			
CULVERT DIAMETER (D)	LENGTH (L)	WIDTH (W)	STONE d_{50}
12"	8'	12'	6"
18"	10'	12'	6"
24"	12'	14'	6"
30"	16'	20'	12"
36"	20'	23'	12"

The minimum thickness of the riprap layer shall be 1.5 times the maximum rock diameter for d_{50} of 15 inches or less; and 1.2 times the maximum rock size for d_{50} greater than 15 inches. The following chart lists some examples:

D_{50} (Inches)	d_{max} (Inches)	Minimum Blanket Thickness (Inches)
4	6	9
6	9	14
9	14	20
12	18	27
15	22	32
18	27	32
21	32	38
24	36	43

FIGURE 3.20
RIPRAP OUTLET PROTECTION DETAIL (3)

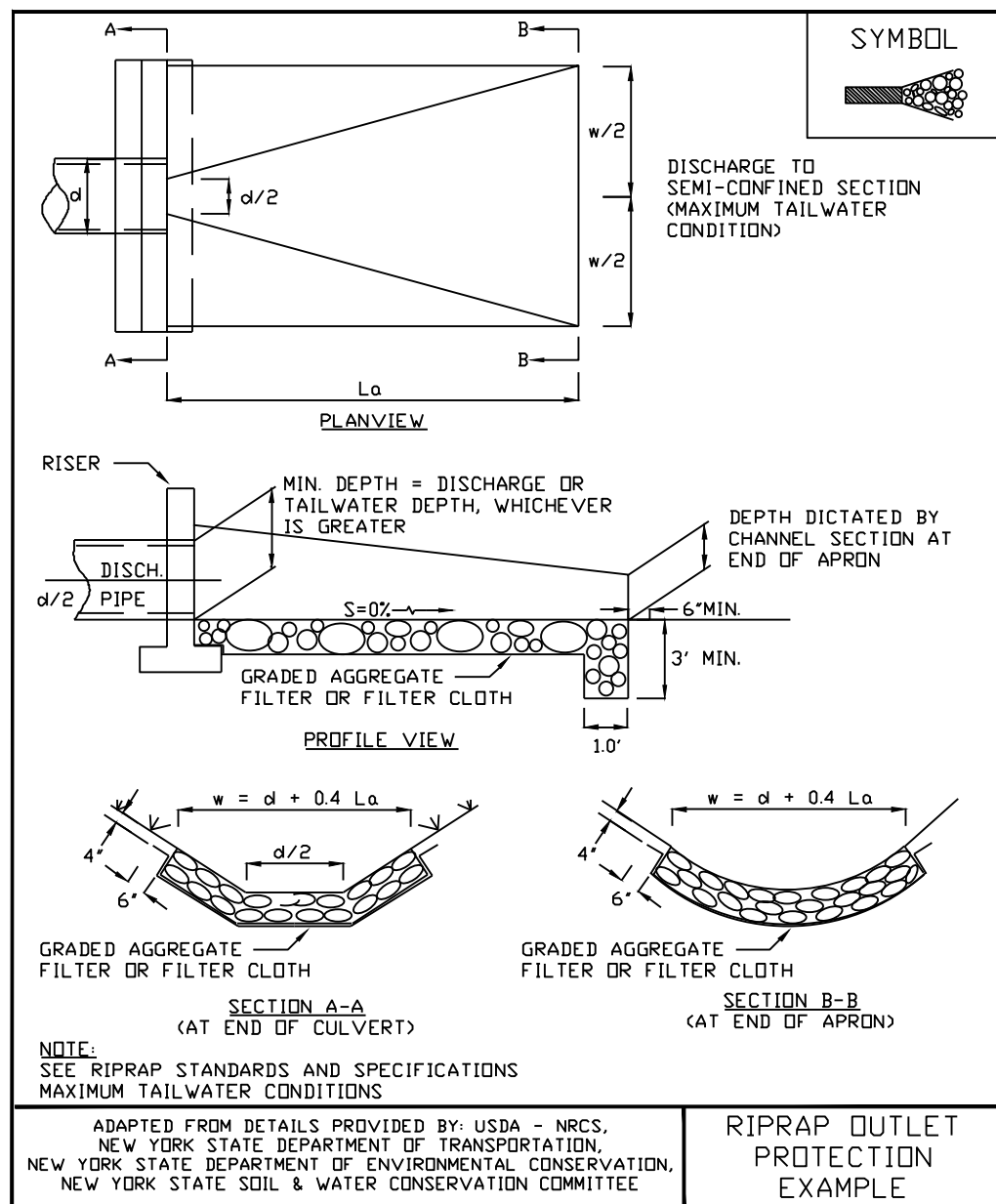


FIGURE 3.22
WATER BAR DETAIL

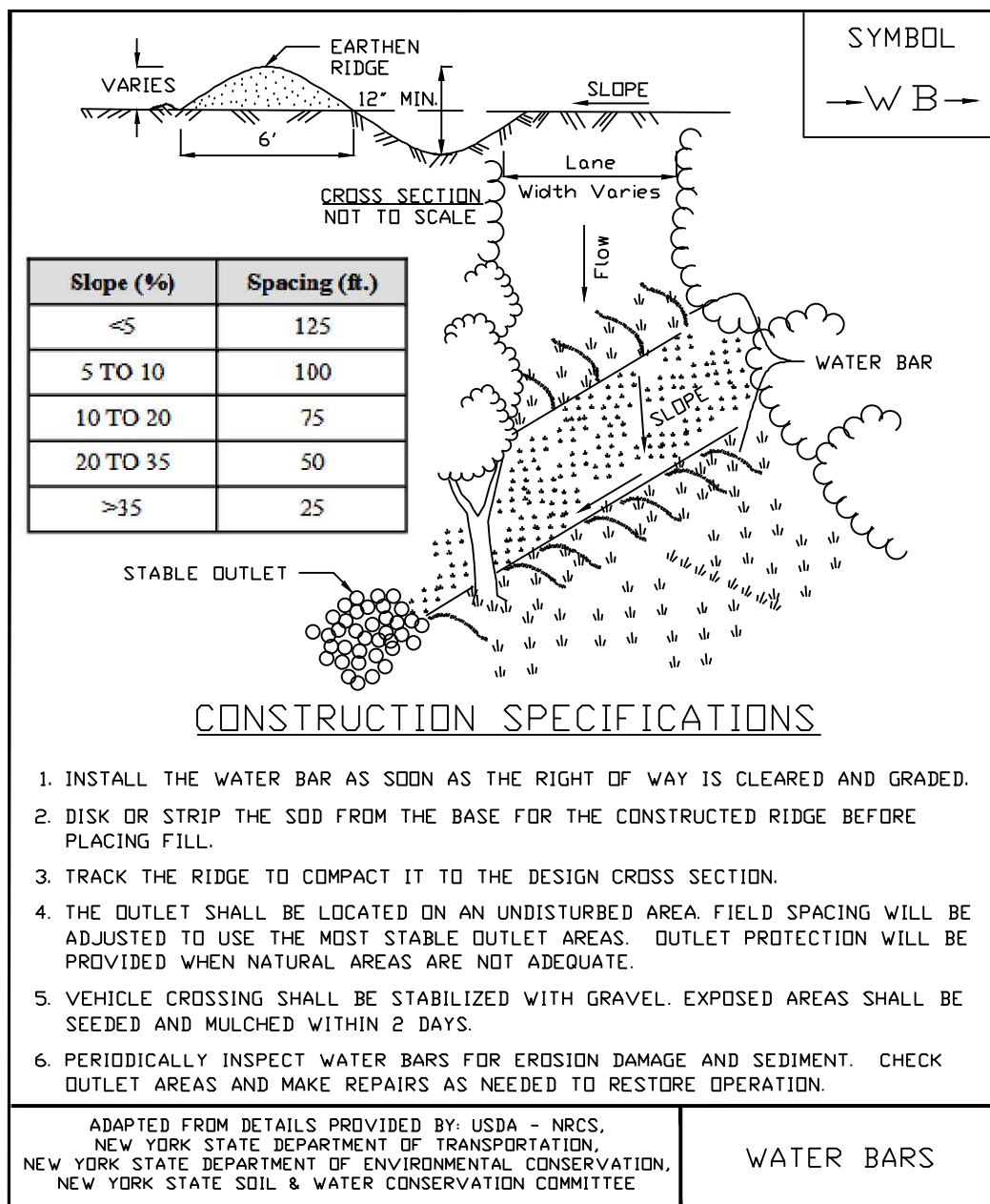
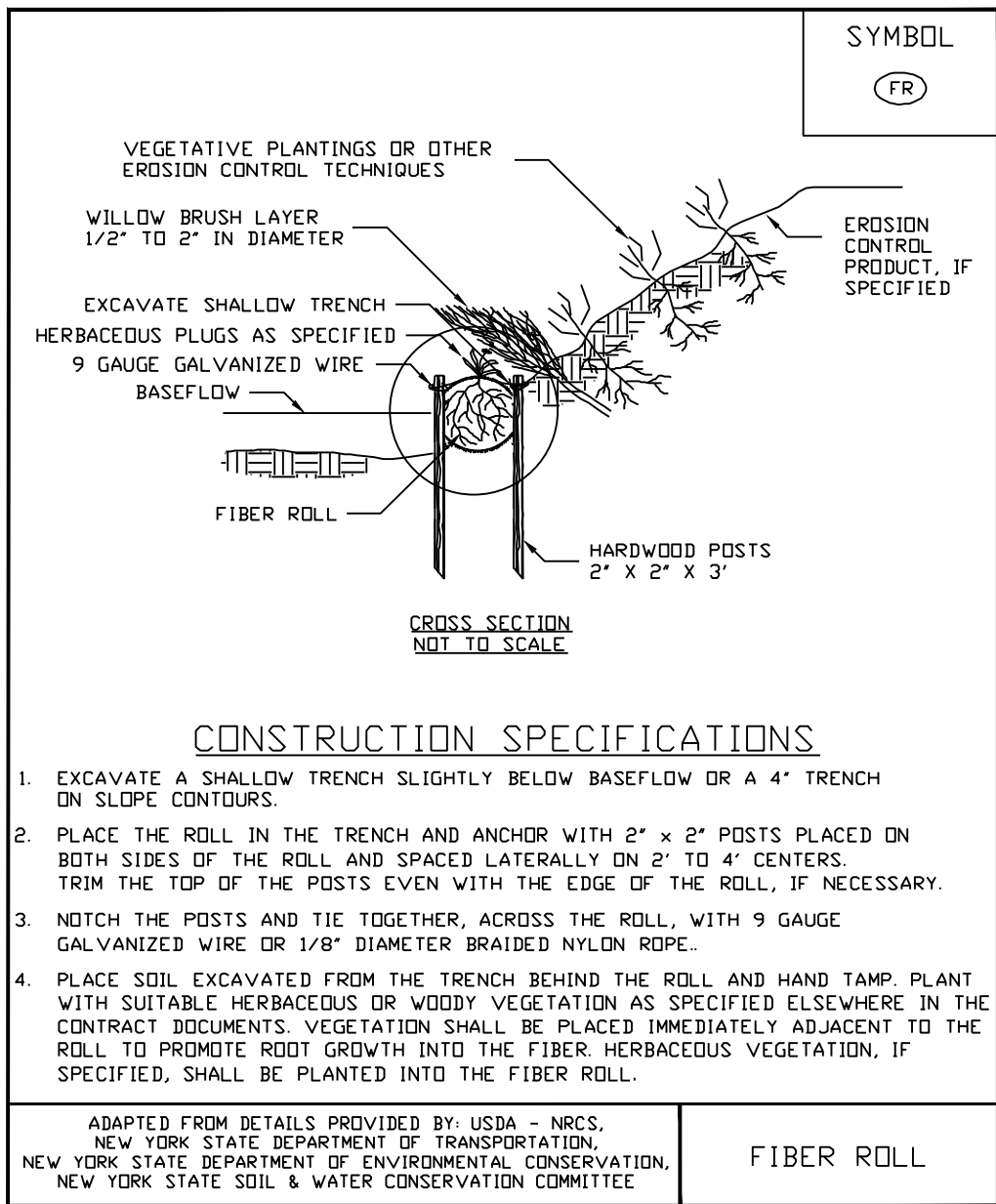


FIGURE 4.8
FIBER ROLL



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Figure 4.1
Angles of Repose of Riprap Stones (FHWA)

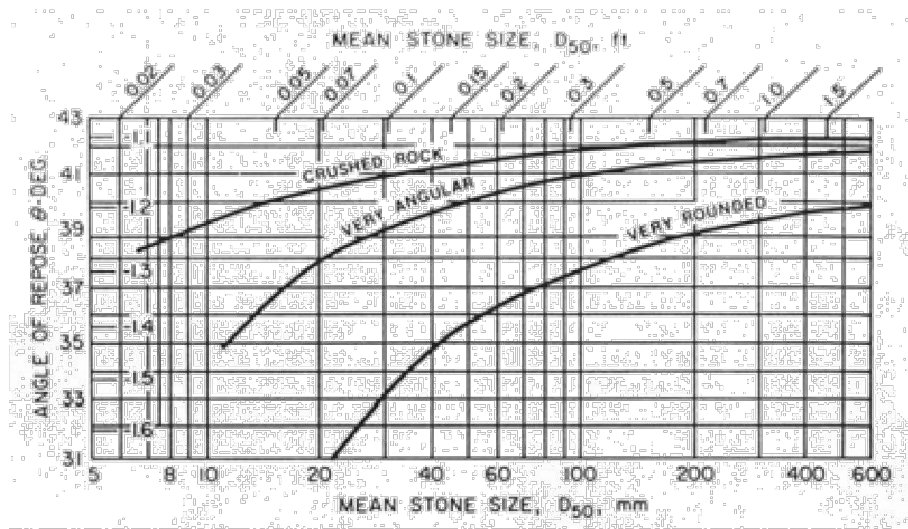
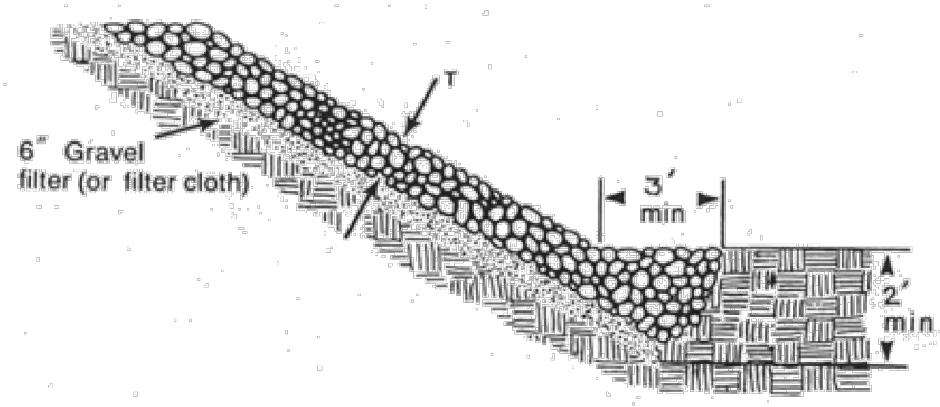


Figure 4.2
Typical Riprap Slope Protection Detail



New York State Standards and Specifications For Erosion and Sediment Control Page 4.9 November 2016

FIGURE 4.3
RIPRAP CHANNEL STABILIZATION

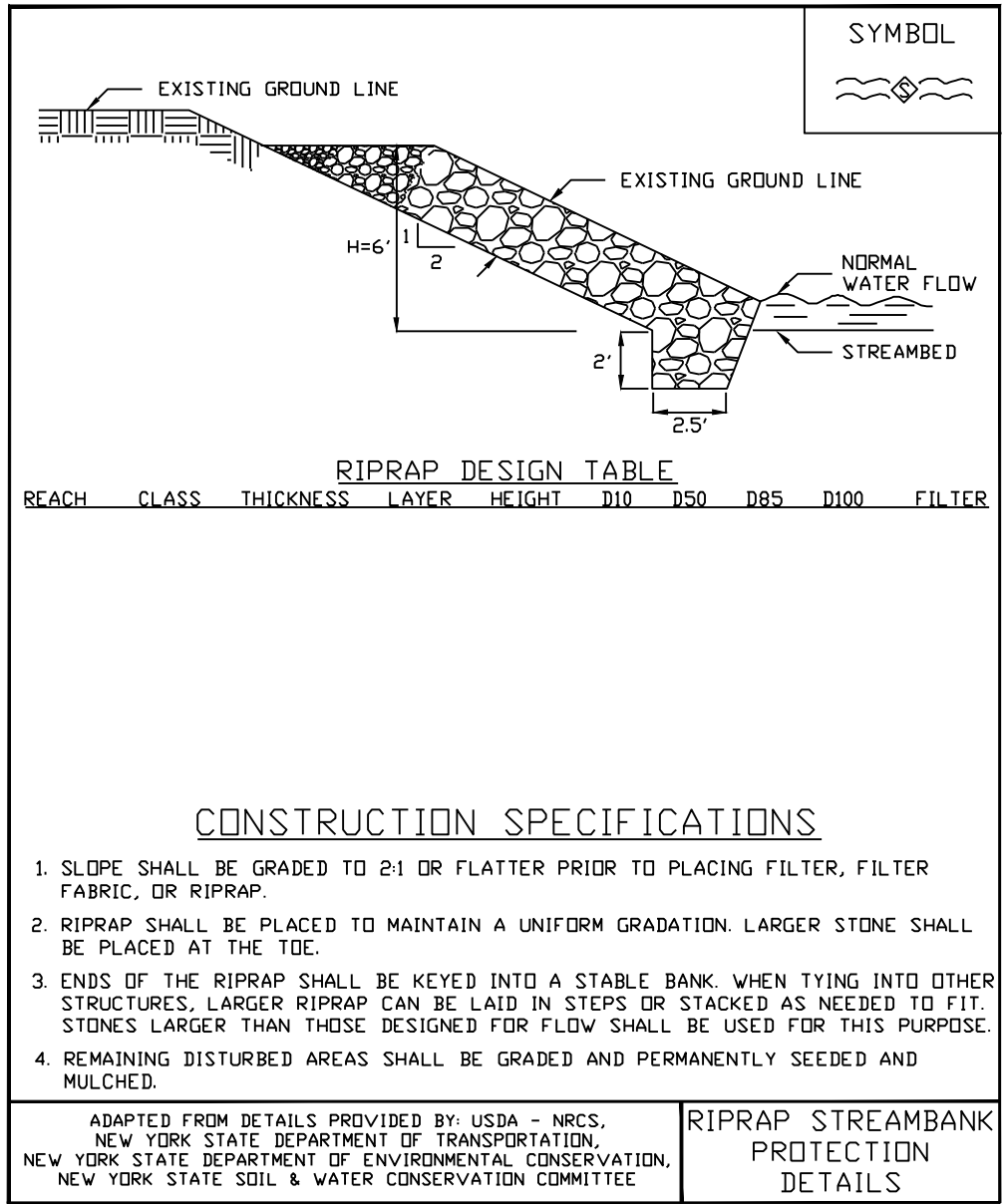


FIGURE 4.4
CHANNEL STABILIZATION METHODS

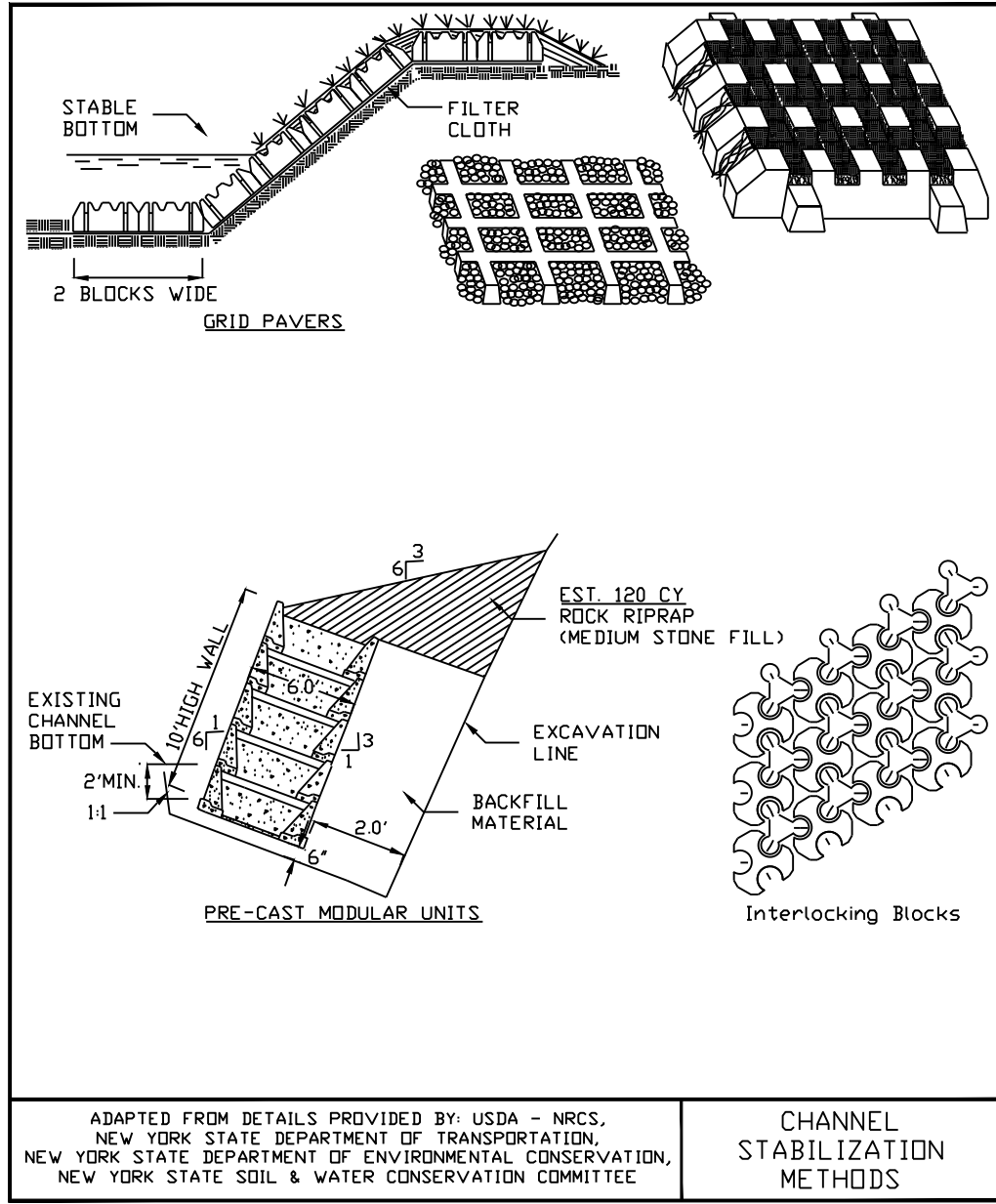


FIGURE 4.9
TYPICAL SECTION OF SERRATED CUT SLOPE

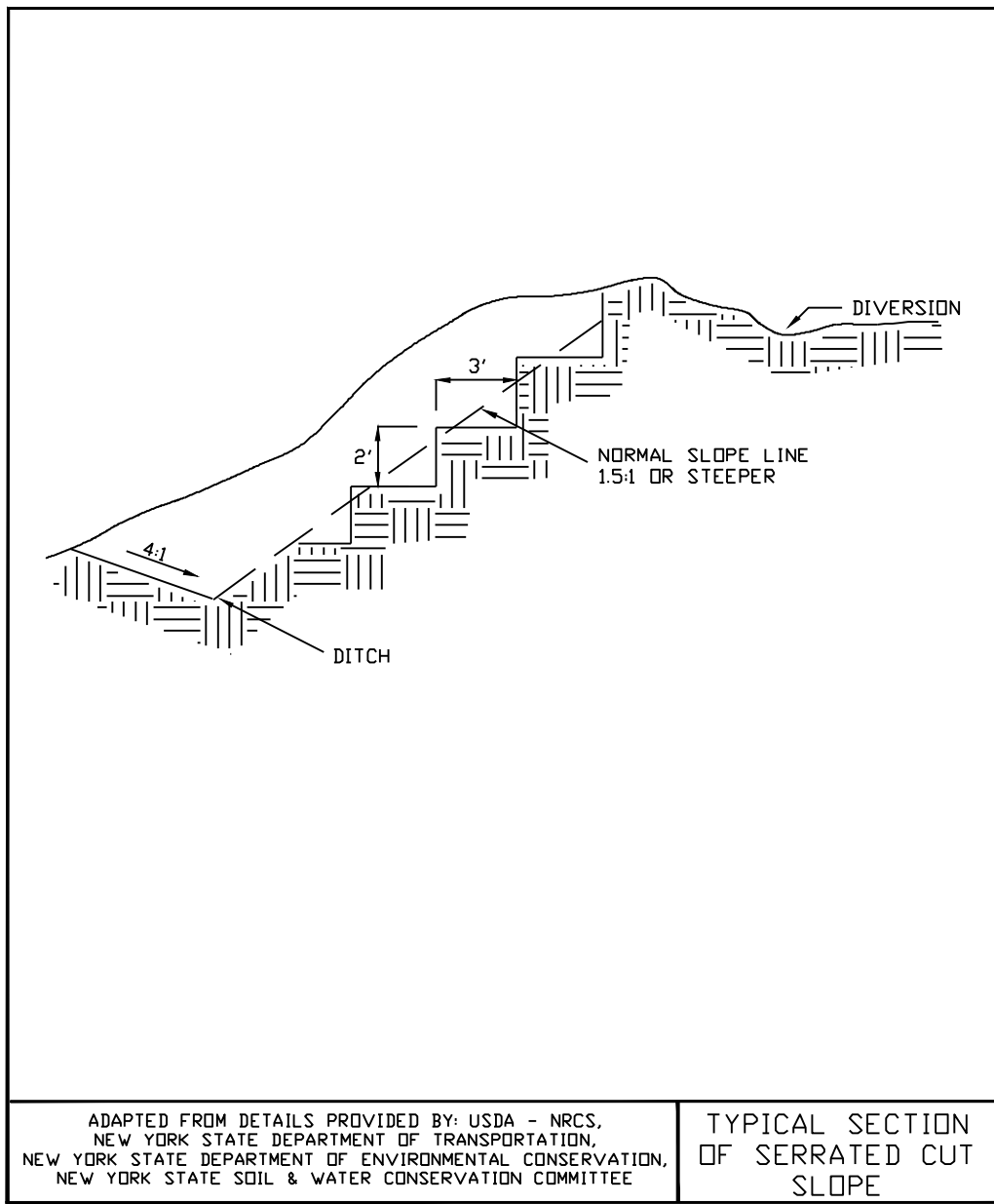


FIGURE 4.10
LANDGRADING

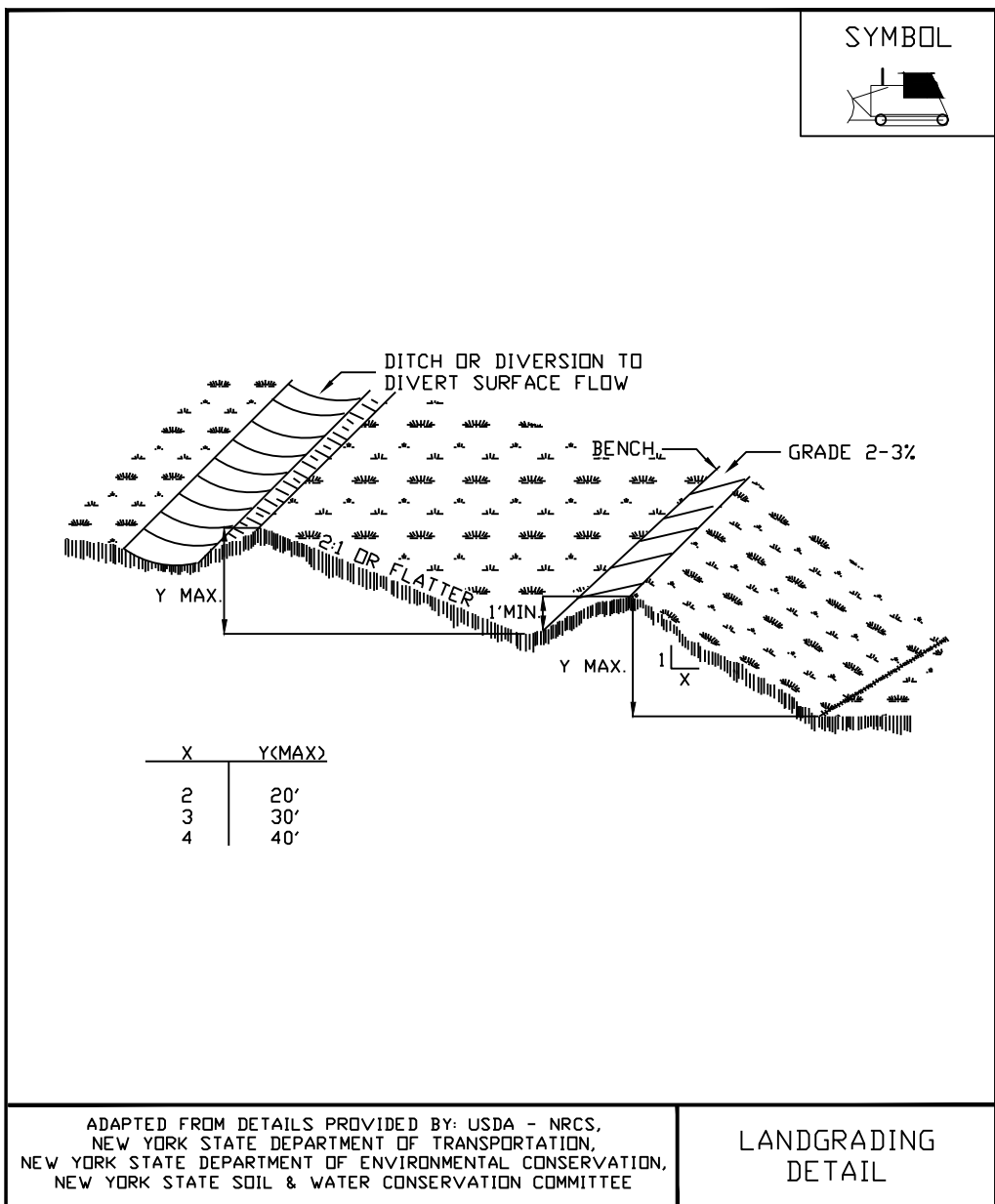
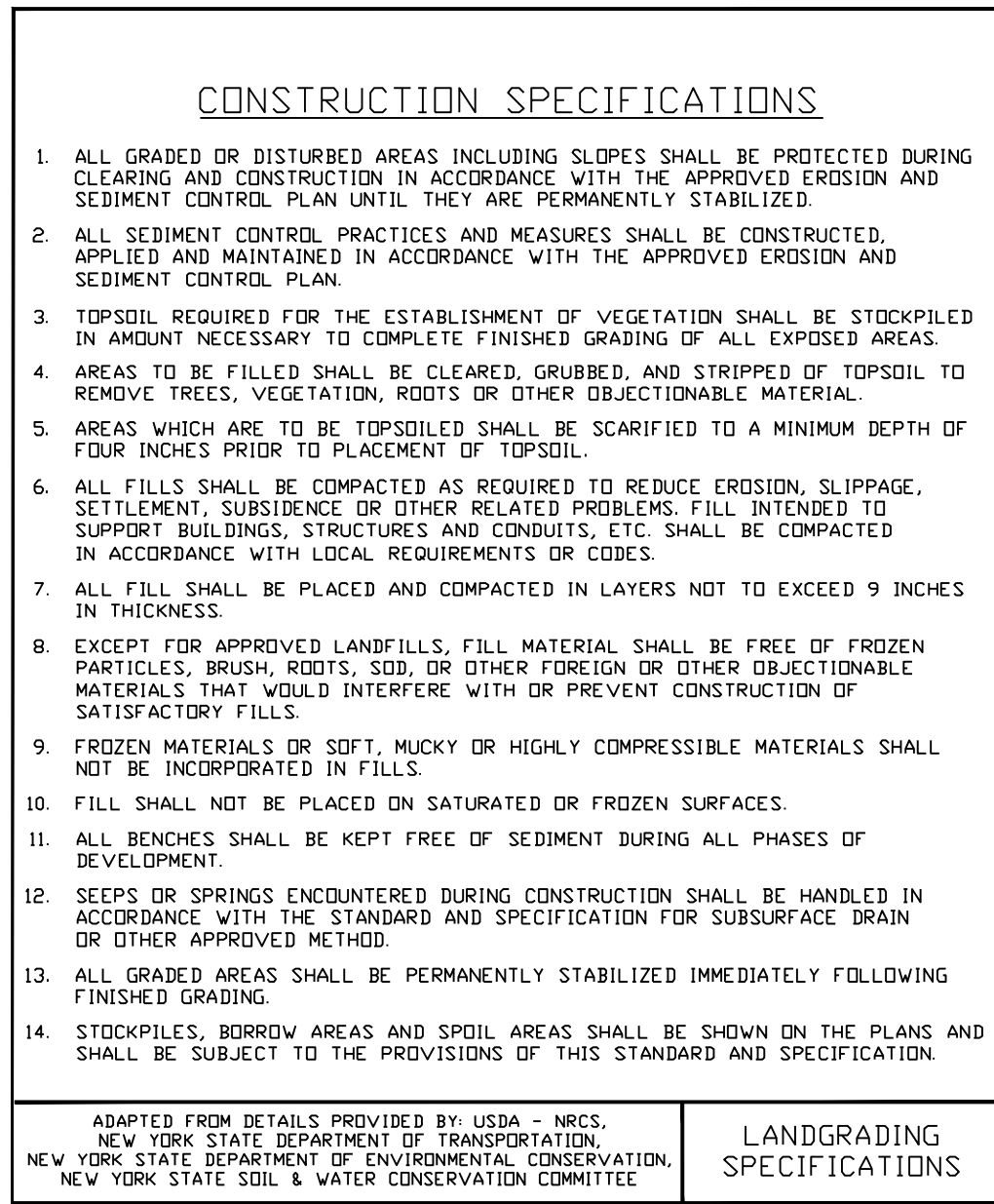


FIGURE 4.11
LANDGRADING - CONSTRUCTION SPECIFICATIONS



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New York State Stormwater Management Design Manual
Chapter 6: Performance Criteria
Section 6.3 Stormwater Infiltration

Figure 6.12 Infiltration Basin (I-2)

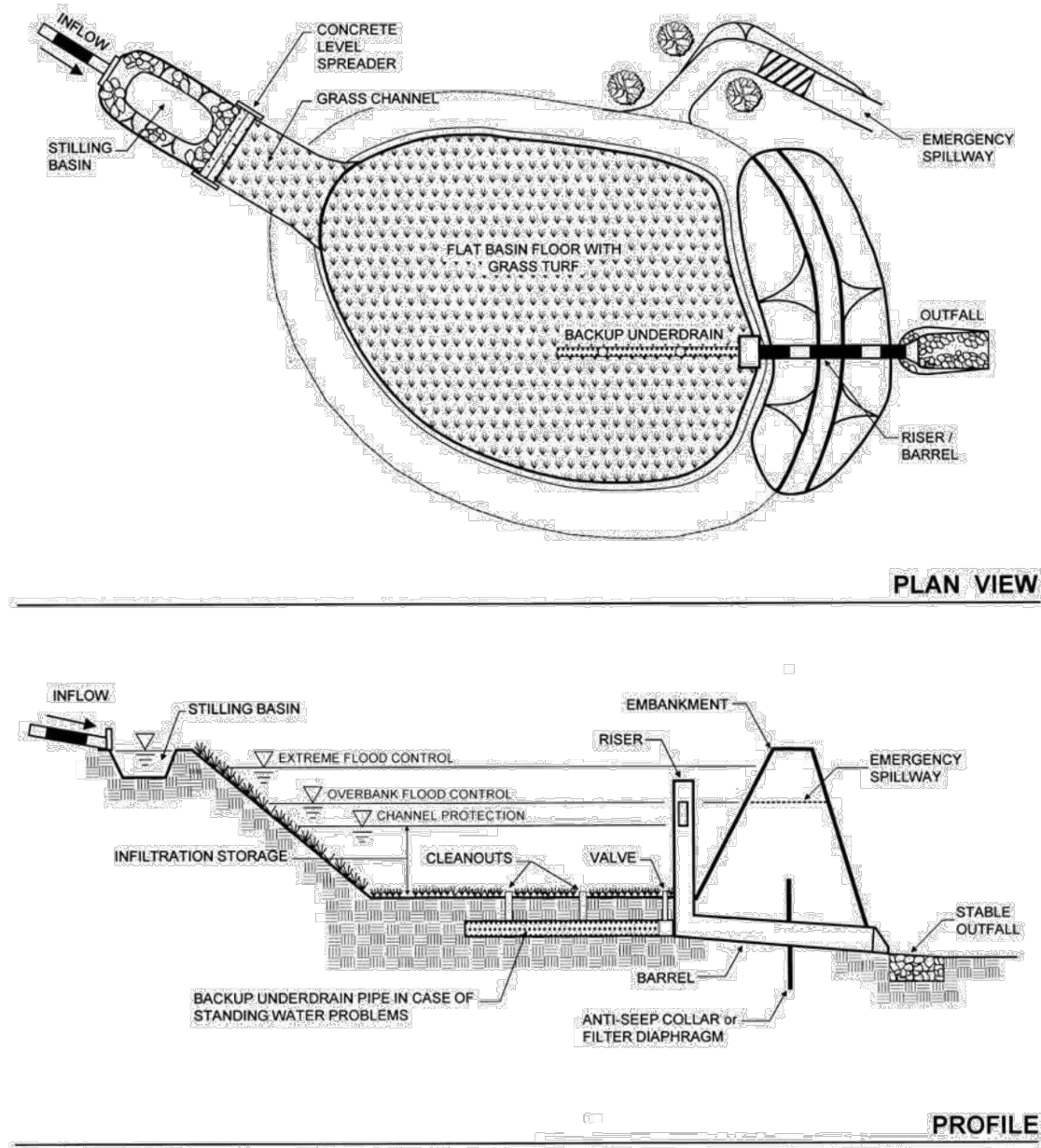


FIGURE 4.18
SURFACE ROUGHENING

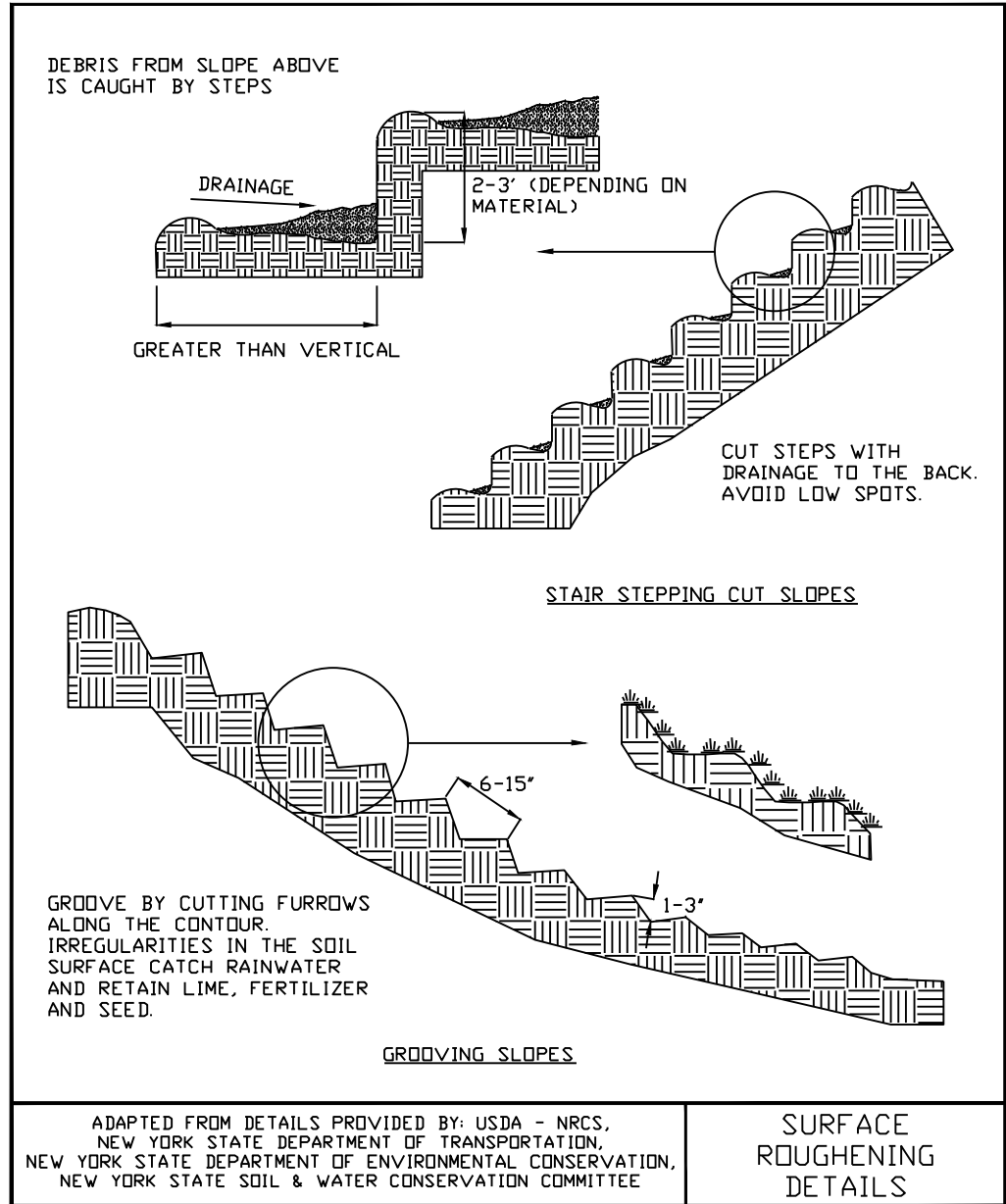
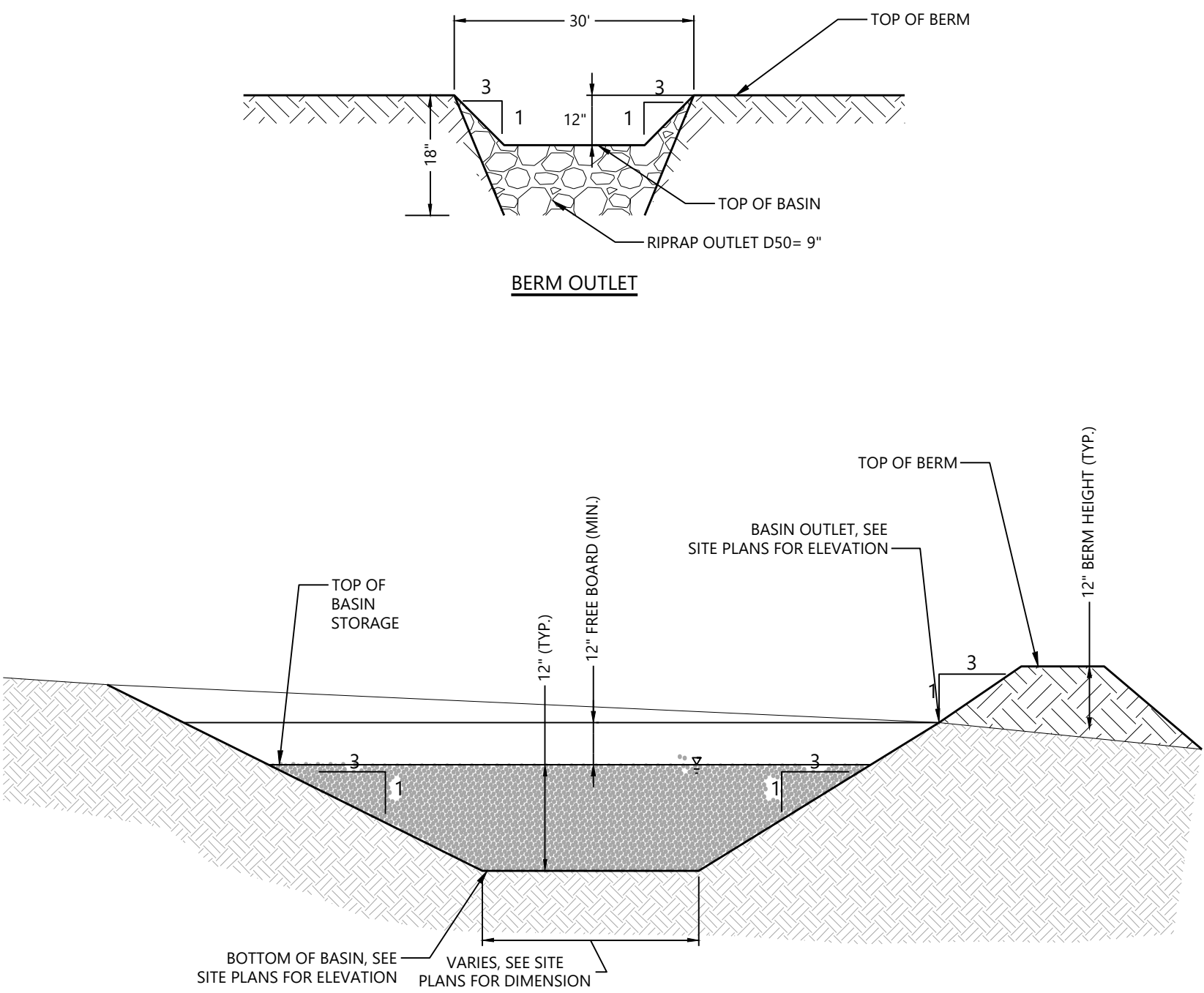
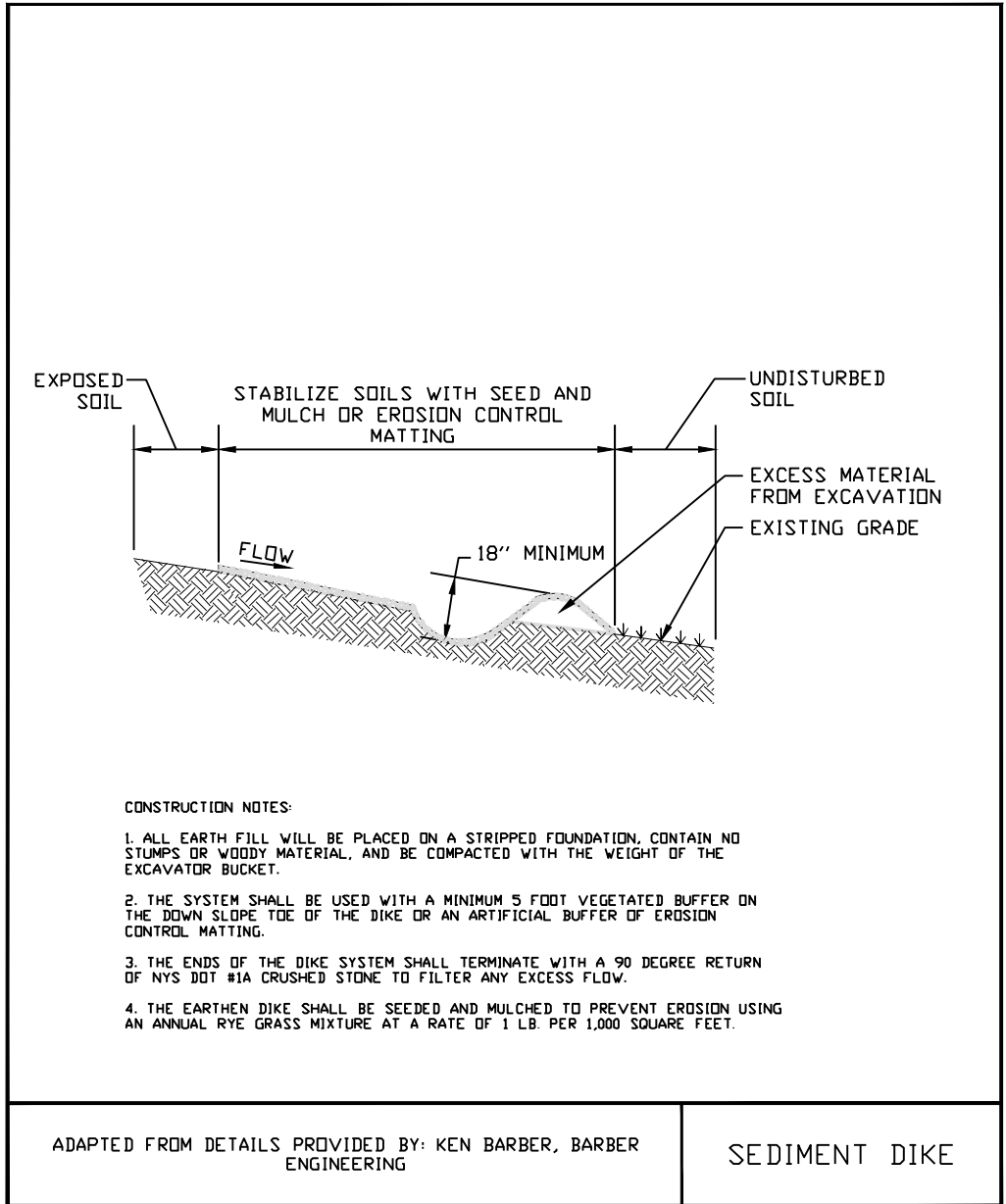


FIGURE 5.23
SEDIMENT DIKE



Westwood TYPICAL PRELIMINARY BASIN CROSS SECTION (NOT TO SCALE) LAST REVISED: 07/19/13 GD01

6-33

FIGURE 5.2
COMPOST FILTER SOCK

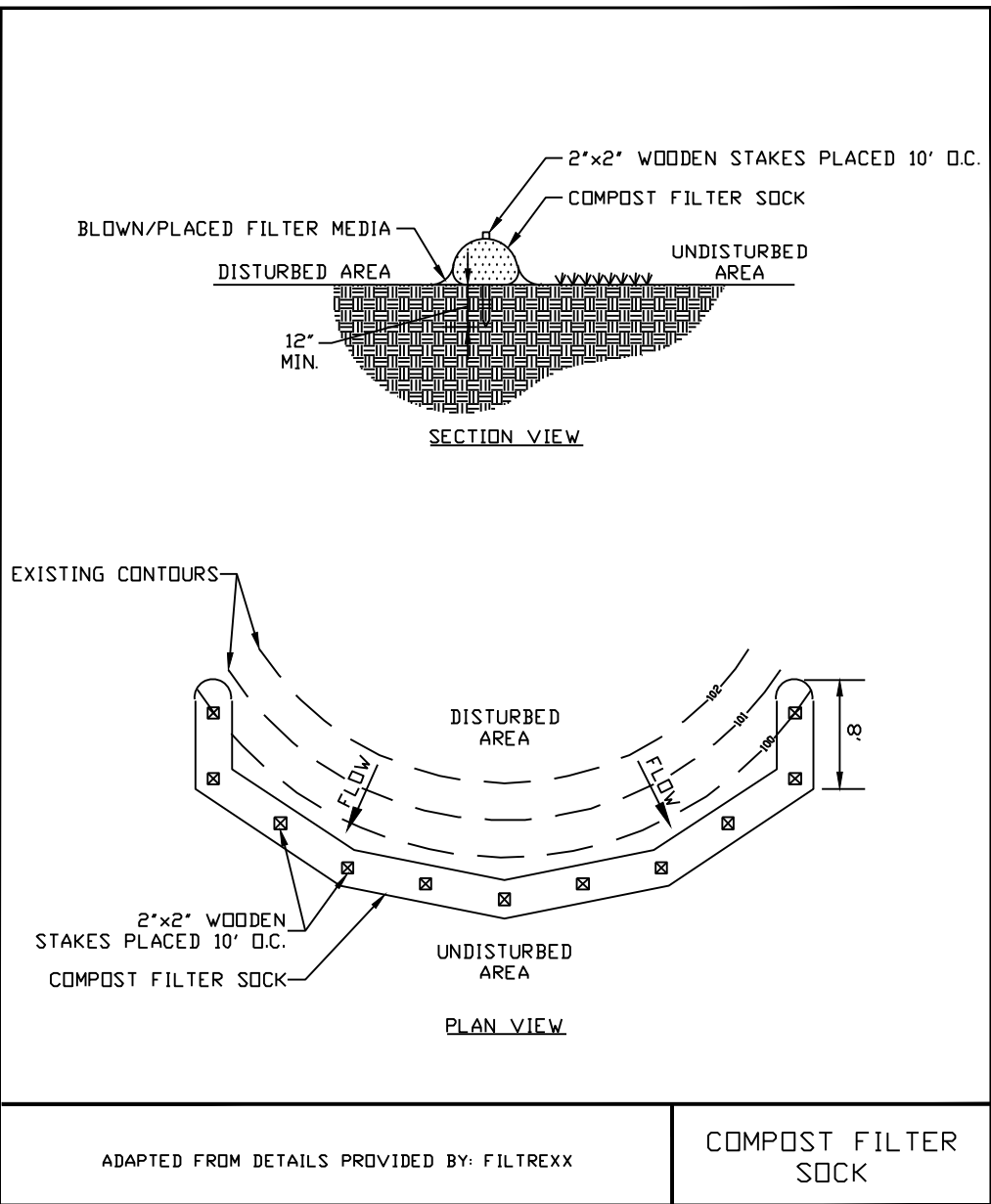


FIGURE 5.30
REINFORCED SILT FENCE

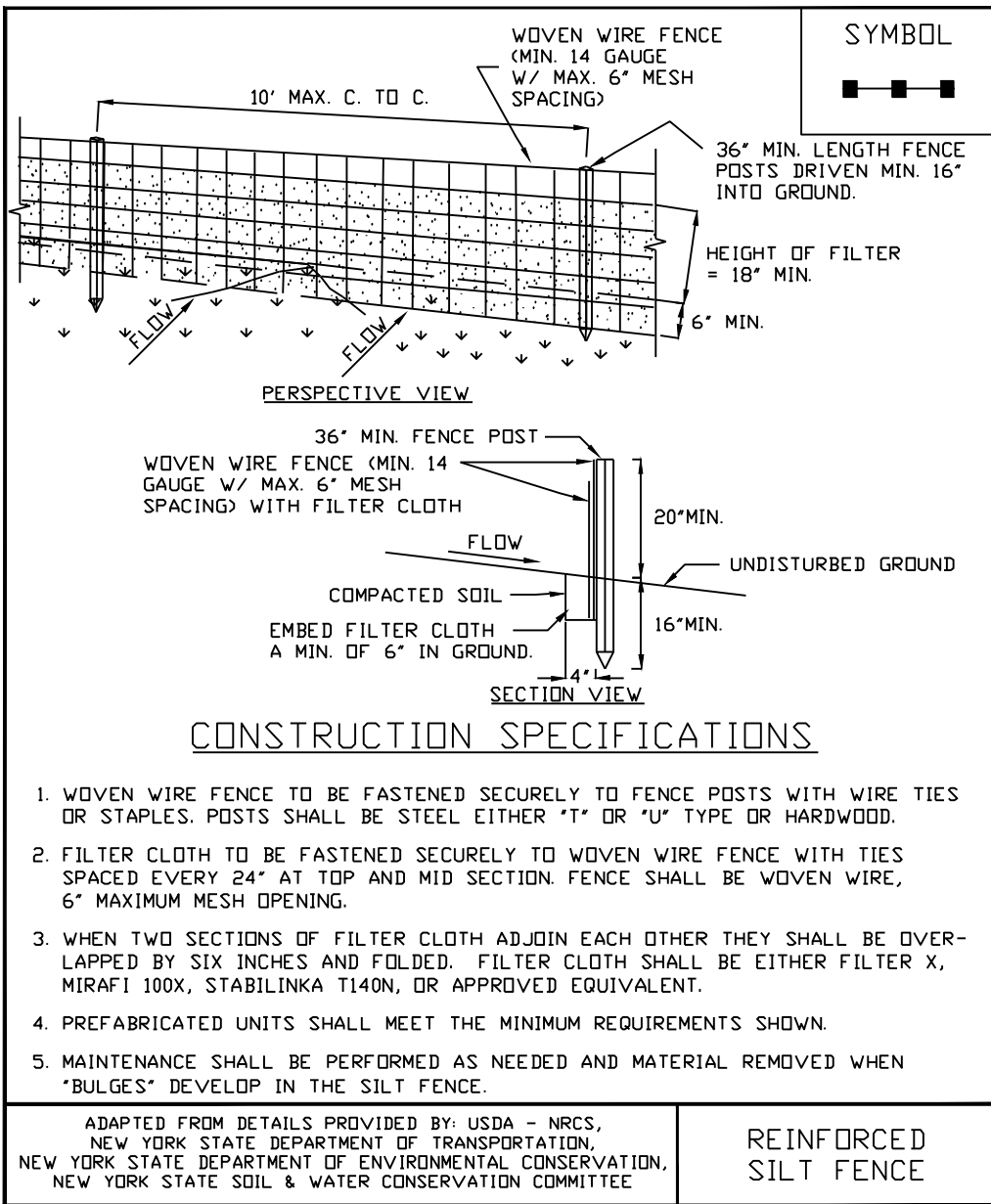
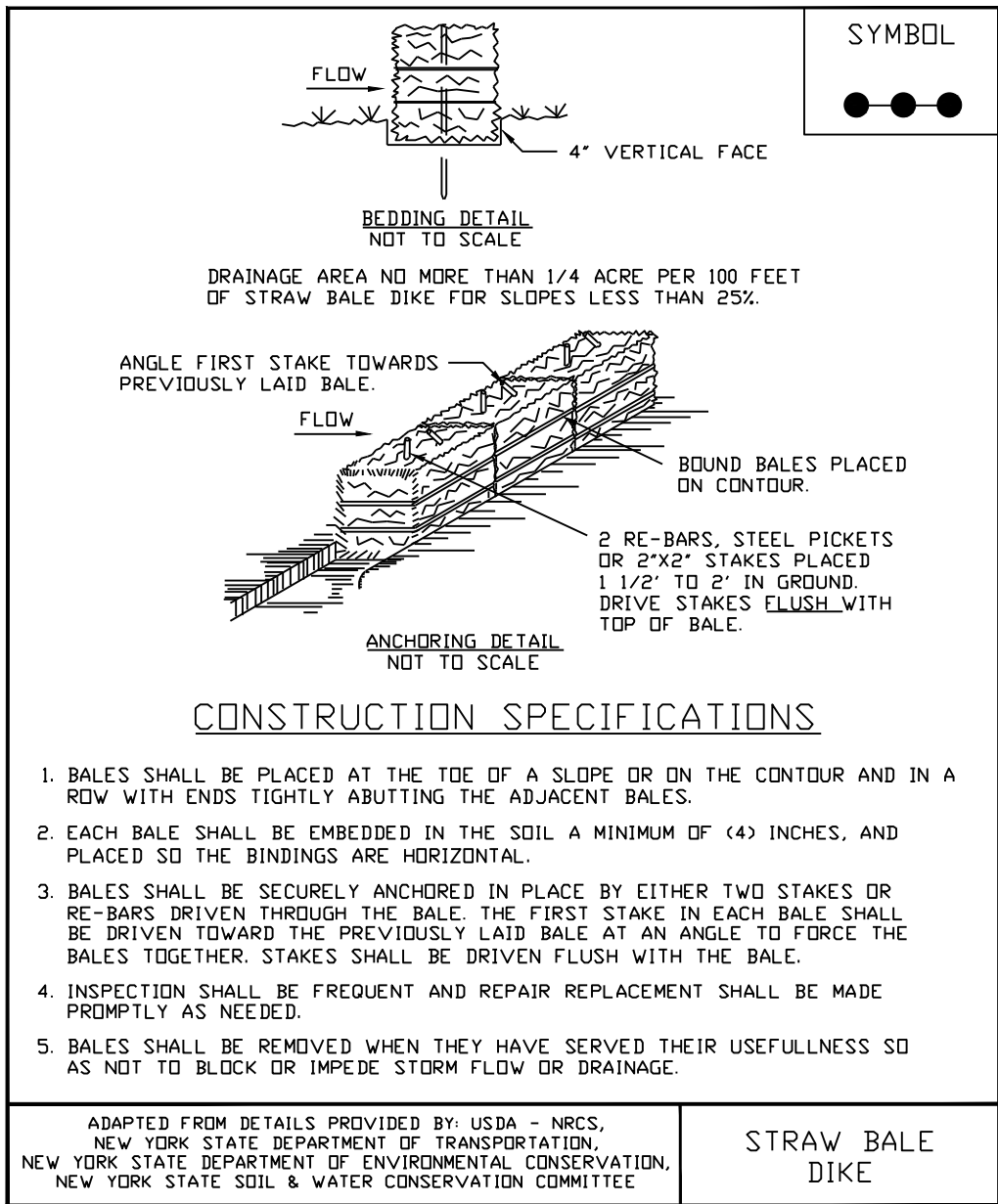


FIGURE 5.34
STRAW BALE DIKE



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New York Erosion Control Details

PRELIMINARY
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DATE: 09/03/2021

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Figure 6.12 Infiltration Basin (I-2)

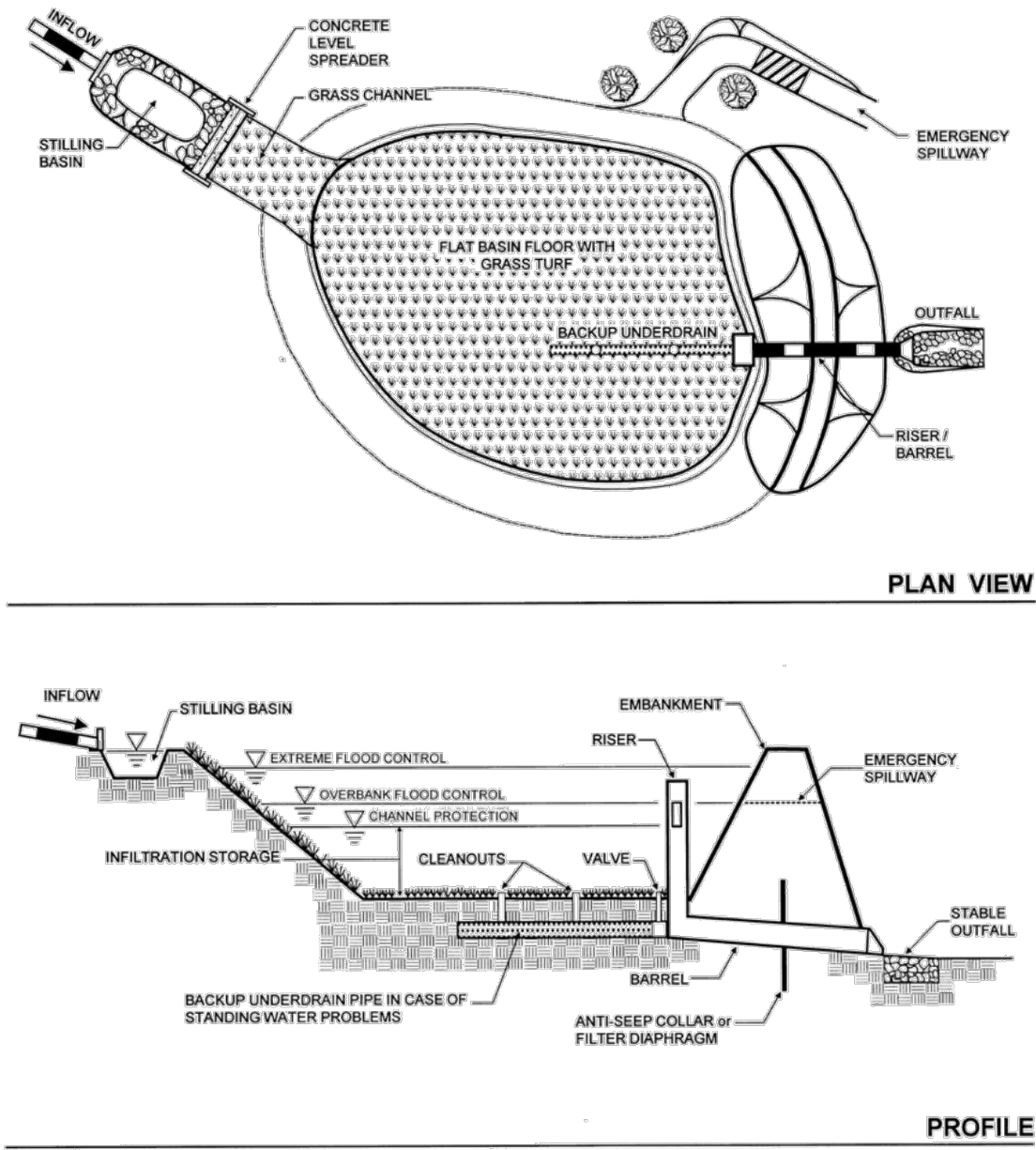
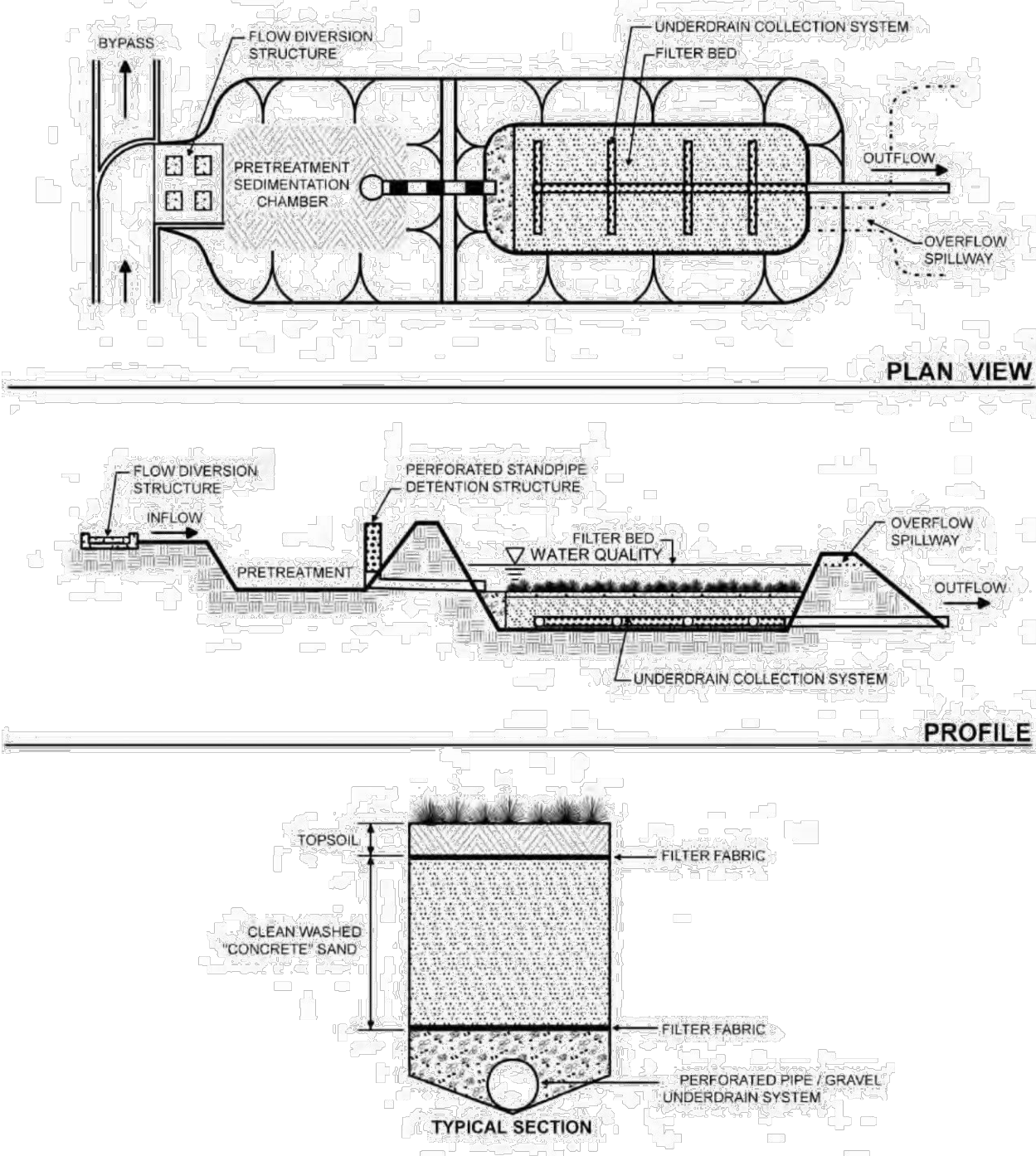


Figure 6.15 Surface Sand Filter (F-1)



PREPARED FOR:



700 Universe Boulevard
Juno Beach, FL 33408

REVISIONS:		
#	DATE	COMMENT
A	09/03/2021	ISSUED FOR PERMIT

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Cayuga County, New York

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