

Westwood

Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
Fax (952) 937-5822 Minnetonka, MN 55343
Toll Free (888) 937-5150 westwoodps.com
Westwood Surveying and Engineering, P.C.

PREPARED FOR:

NEXTERA ENERGY

700 Universe Blvd,
Juno Beach, FL 33408

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High River Solar Energy Center

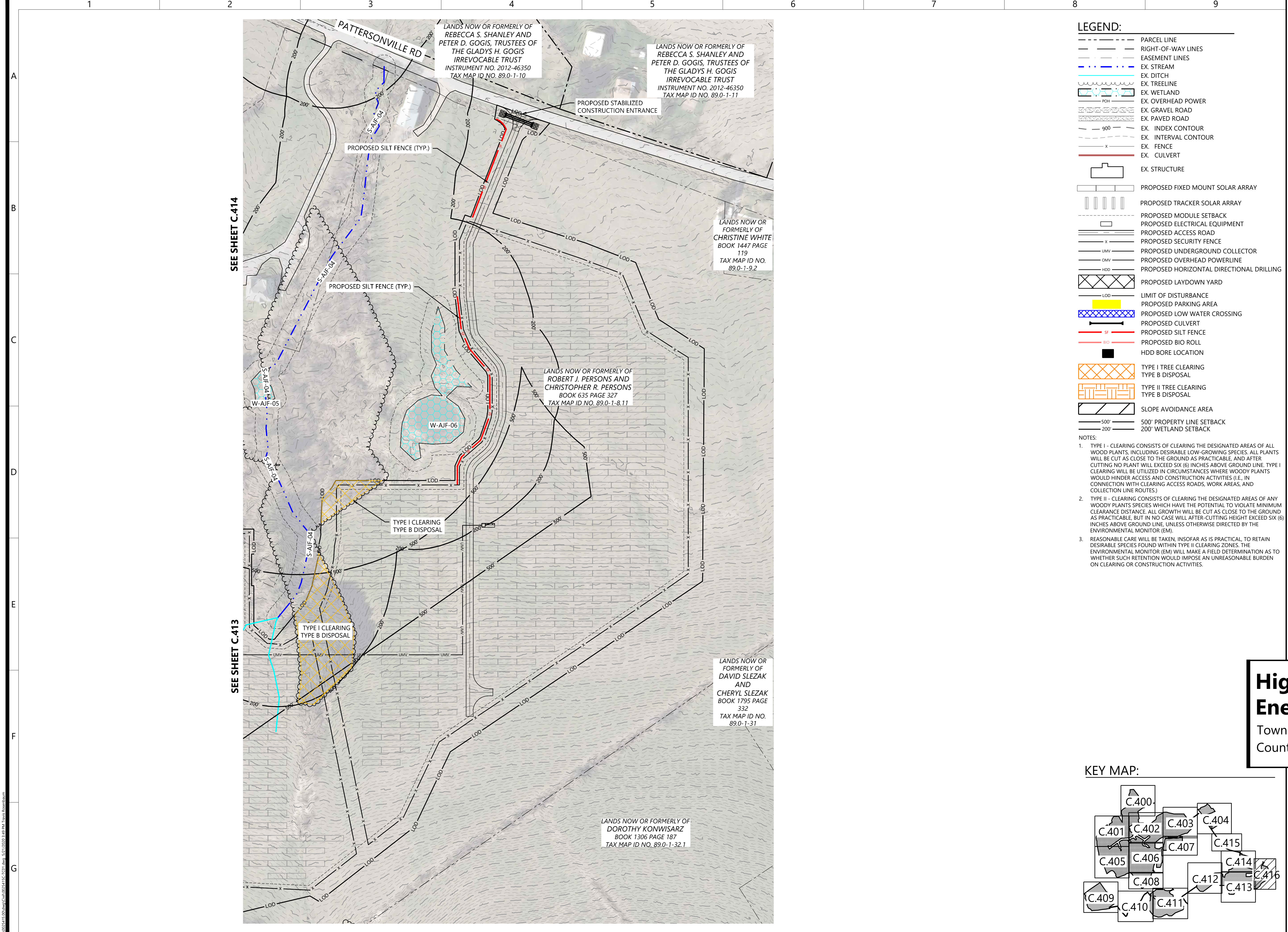
Town of Florida, Montgomery County, New York

Tree Clearing Plan - 16

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LEGEND:

- PARCEL LINE
- RIGHT-OF-WAY LINES
- EASEMENT LINES
- EX. STREAM
- EX. DITCH
- EX. TREELINE
- EX. WETLAND
- EX. OVERHEAD POWER
- EX. GRAVEL ROAD
- EX. PAVED ROAD
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. FENCE
- EX. CULVERT
- EX. STRUCTURE
- PROPOSED FIXED MOUNT SOLAR ARRAY
- PROPOSED TRACKER SOLAR ARRAY
- PROPOSED MODULE SETBACK
- PROPOSED ELECTRICAL EQUIPMENT
- PROPOSED ACCESS ROAD
- PROPOSED SECURITY FENCE
- PROPOSED UNDERGROUND COLLECTOR
- PROPOSED OVERHEAD POWERLINE
- PROPOSED HORIZONTAL DIRECTIONAL DRILLING
- PROPOSED LAYDOWN YARD
- LIMIT OF DISTURBANCE
- PROPOSED PARKING AREA
- PROPOSED LOW WATER CROSSING
- PROPOSED CULVERT
- PROPOSED SILT FENCE
- PROPOSED BIO ROLL
- HDD BORE LOCATION
- TYPE I TREE CLEARING
TYPE B DISPOSAL
- TYPE II TREE CLEARING
TYPE B DISPOSAL
- SLOPE AVOIDANCE AREA
- 500' PROPERTY LINE SETBACK
- 200' WETLAND SETBACK

NOTES:

- TYPE I - CLEARING CONSISTS OF CLEARING THE DESIGNATED AREAS OF ALL WOOD PLANTS, INCLUDING DESIRABLE LOW-GROWING SPECIES. ALL PLANTS WILL BE CUT AS CLOSE TO THE GROUND AS PRACTICABLE, AND AFTER CUTTING NO PLANT WILL EXCEED SIX (6) INCHES ABOVE GROUND LINE. TYPE I CLEARING WILL BE UTILIZED IN CIRCUMSTANCES WHERE WOODY PLANTS WOULD HINDER ACCESS AND CONSTRUCTION ACTIVITIES (I.E., IN CONNECTION WITH CLEARING ACCESS ROADS, WORK AREAS, AND COLLECTION LINE ROUTES).
- TYPE II - CLEARING CONSISTS OF CLEARING THE DESIGNATED AREAS OF ANY WOODY PLANTS SPECIES WHICH HAVE THE POTENTIAL TO VIOLATE MINIMUM CLEARANCE DISTANCE. ALL GROWTH WILL BE CUT AS CLOSE TO THE GROUND AS PRACTICABLE, BUT IN NO CASE WILL AFTER-CUTTING HEIGHT EXCEED SIX (6) INCHES ABOVE GROUND LINE, UNLESS OTHERWISE DIRECTED BY THE ENVIRONMENTAL MONITOR (EM).
- REASONABLE CARE WILL BE TAKEN, INSOFAR AS IS PRACTICAL, TO RETAIN DESIRABLE SPECIES FOUND WITHIN TYPE II CLEARING ZONES. THE ENVIRONMENTAL MONITOR (EM) WILL MAKE A FIELD DETERMINATION AS TO WHETHER SUCH RETENTION WOULD IMPOSE AN UNREASONABLE BURDEN ON CLEARING OR CONSTRUCTION ACTIVITIES.

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Town of Florida, Montgomery County, New York

KEY MAP:

Tree Clearing Plan - 17

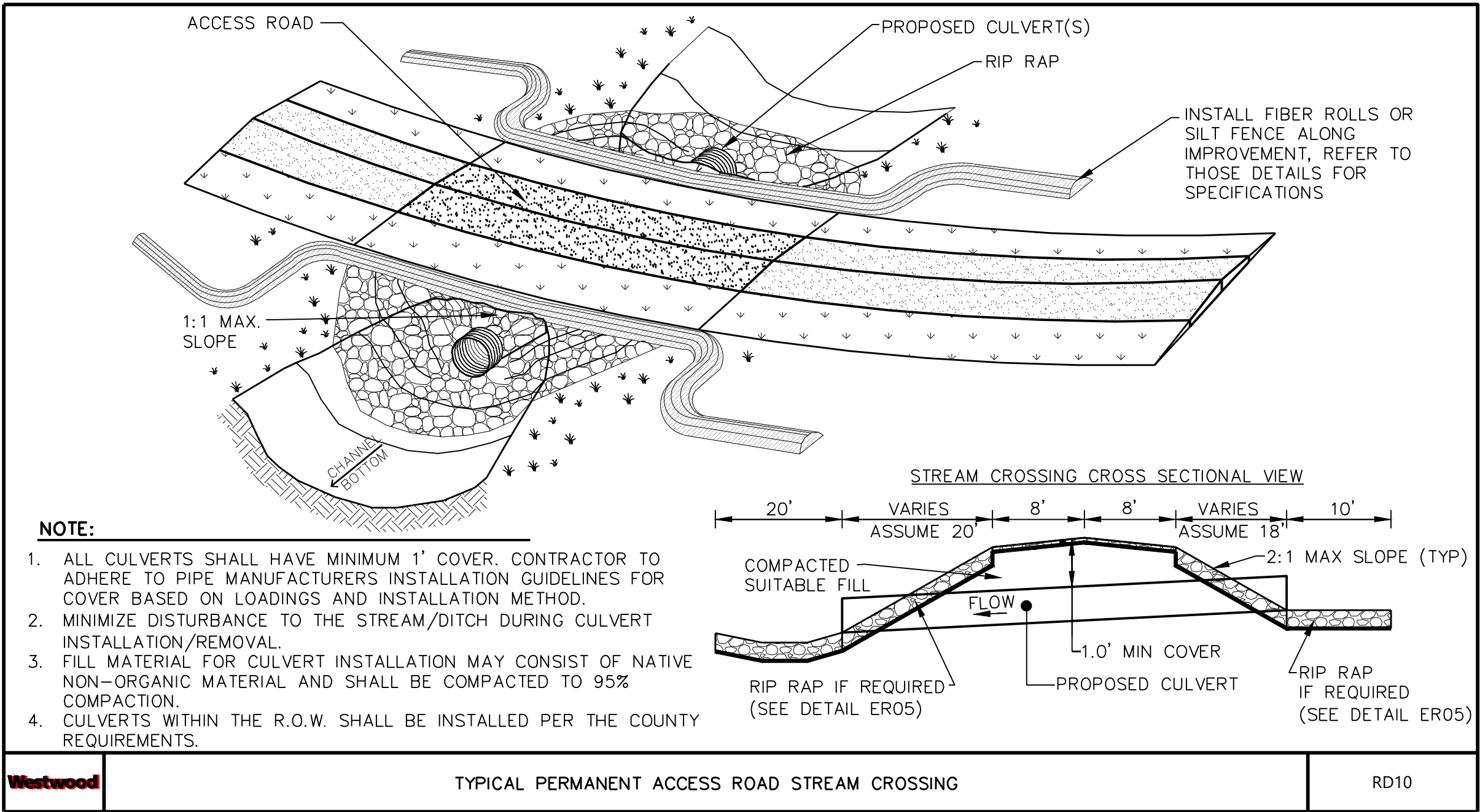
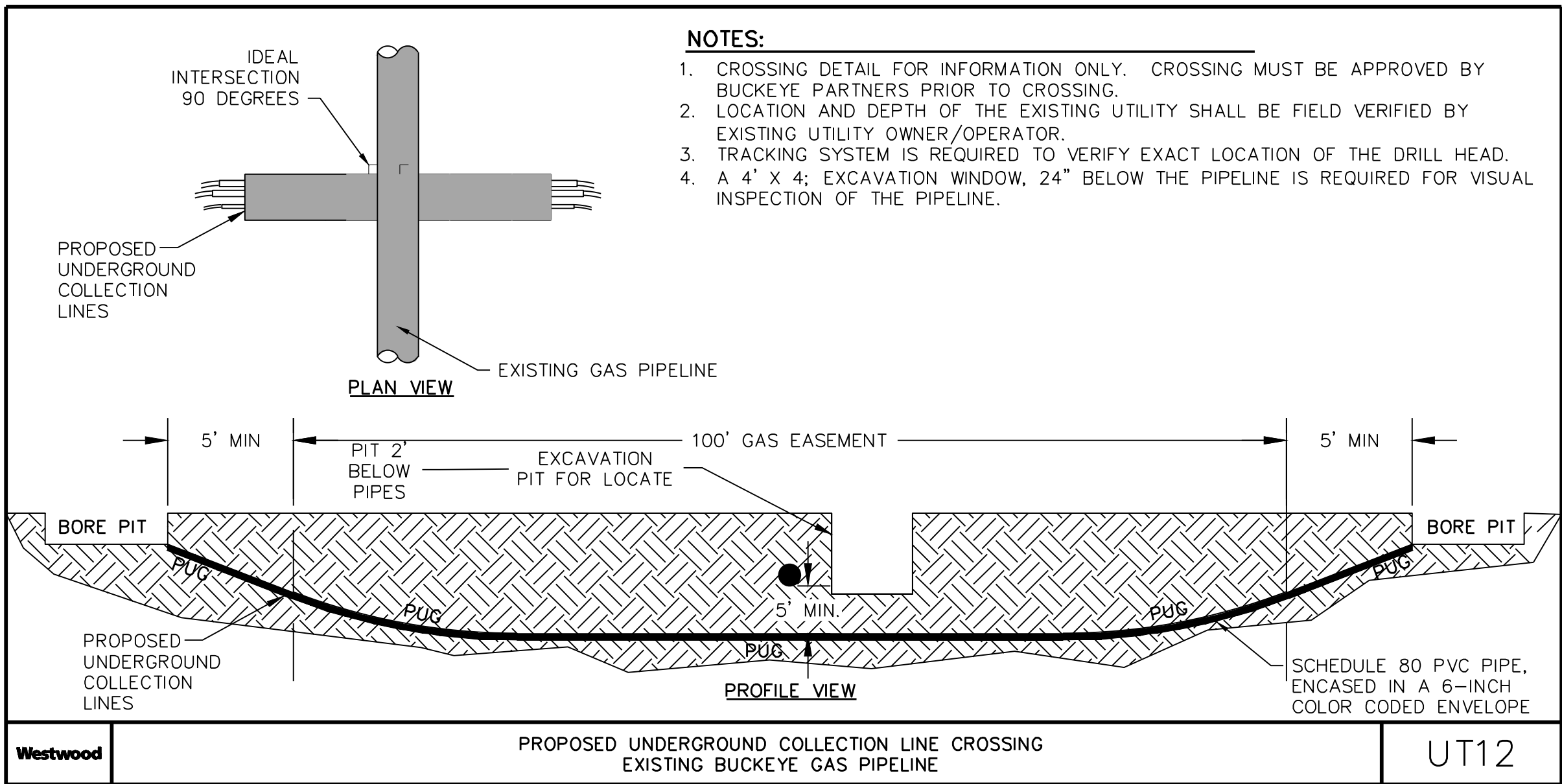
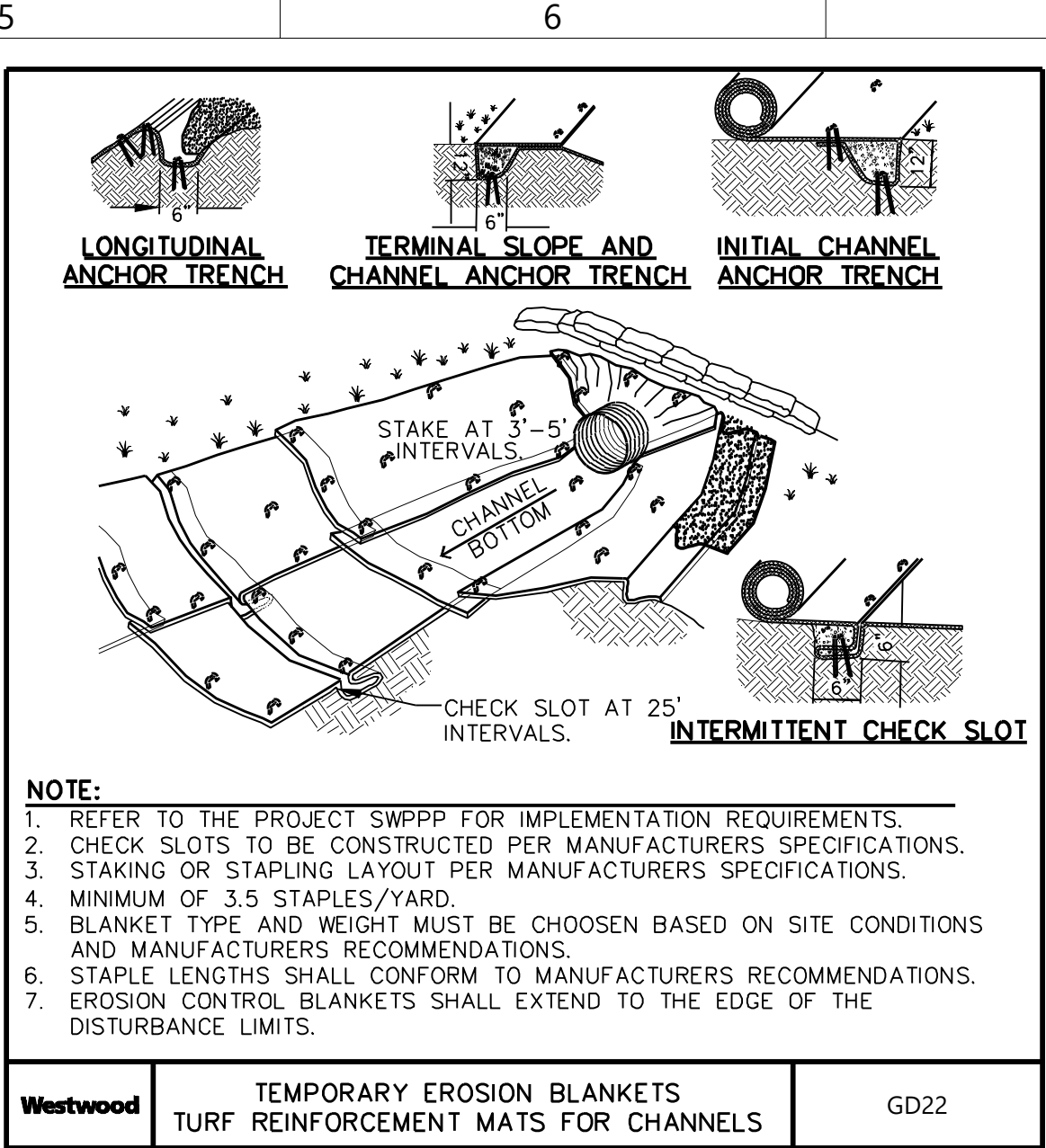
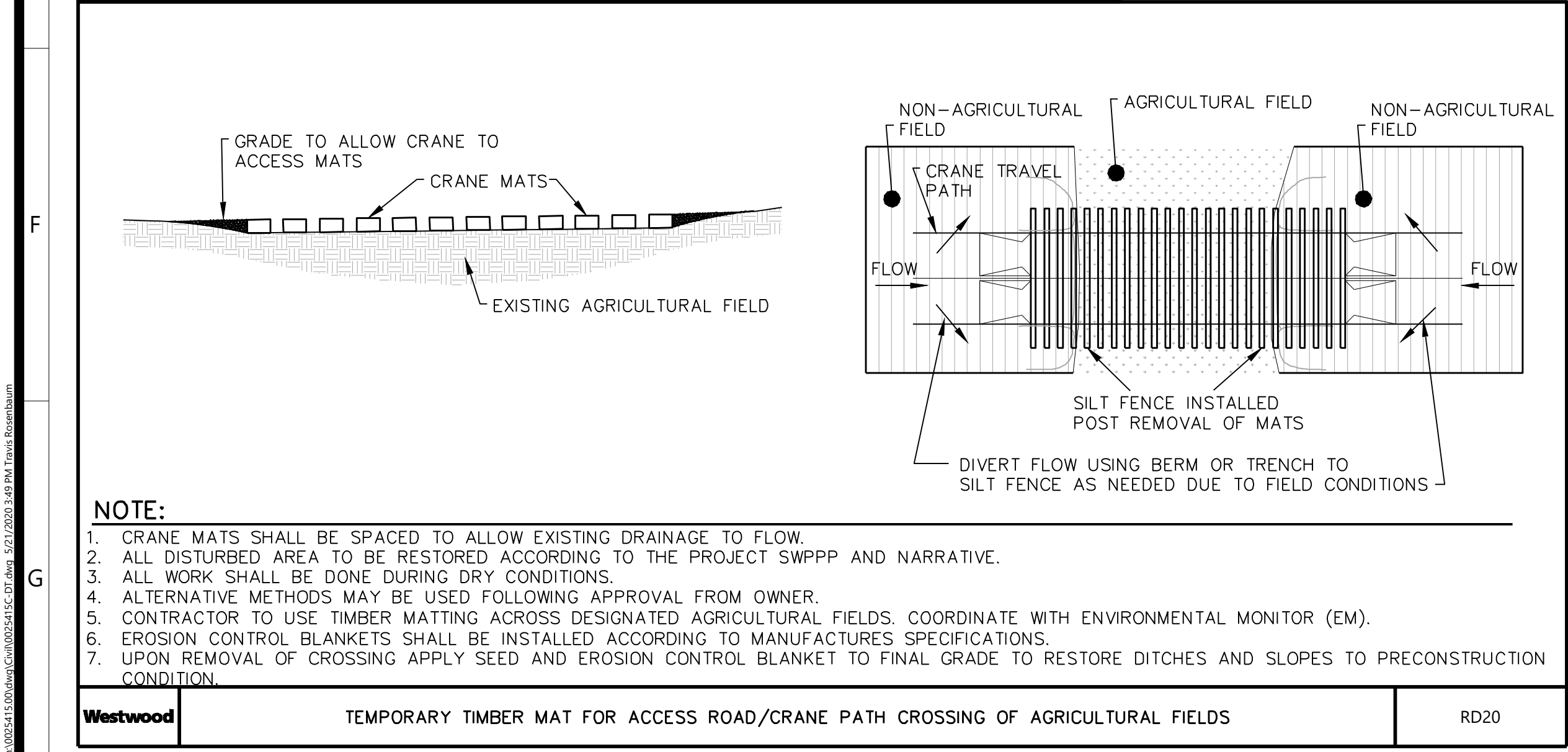
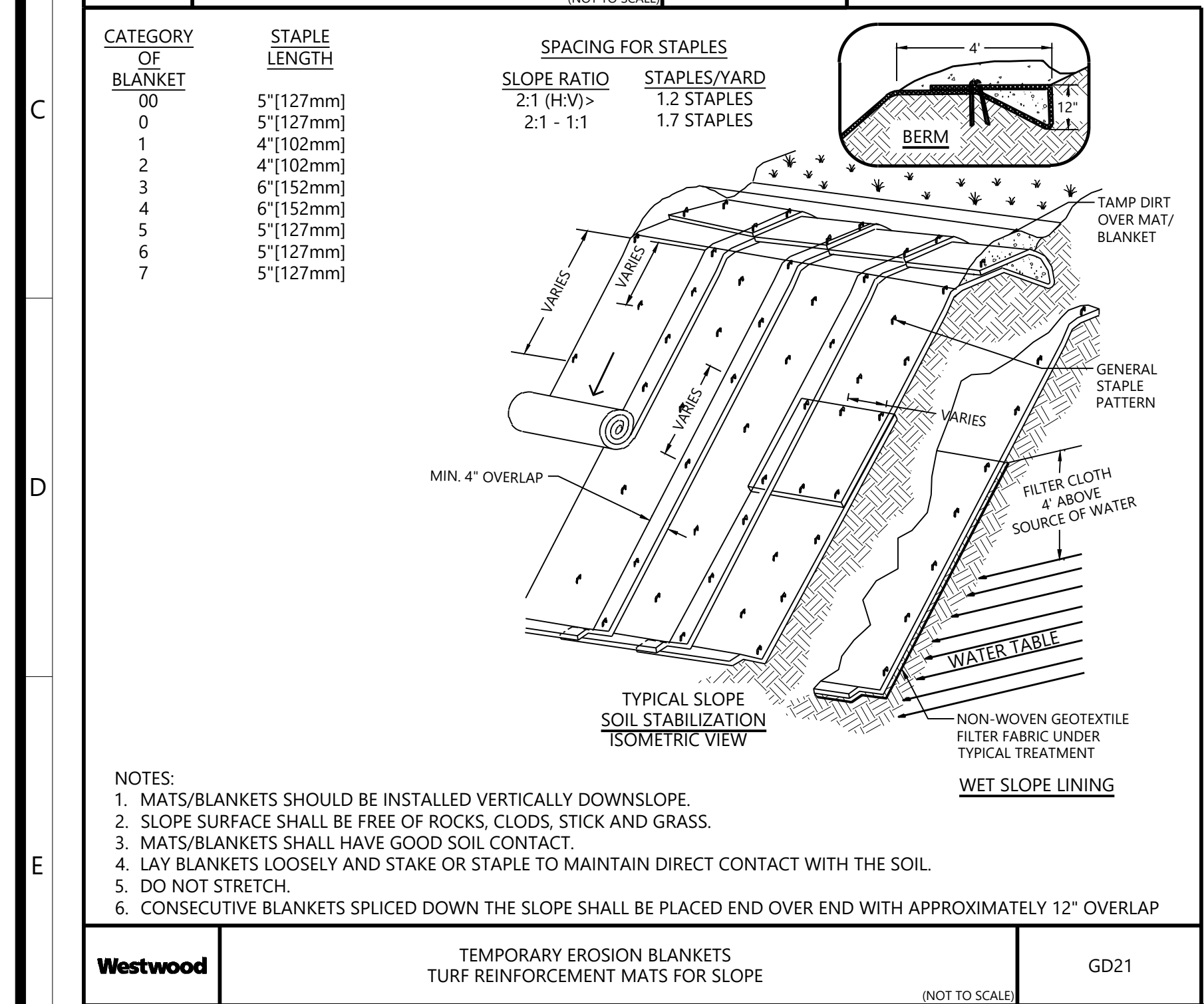
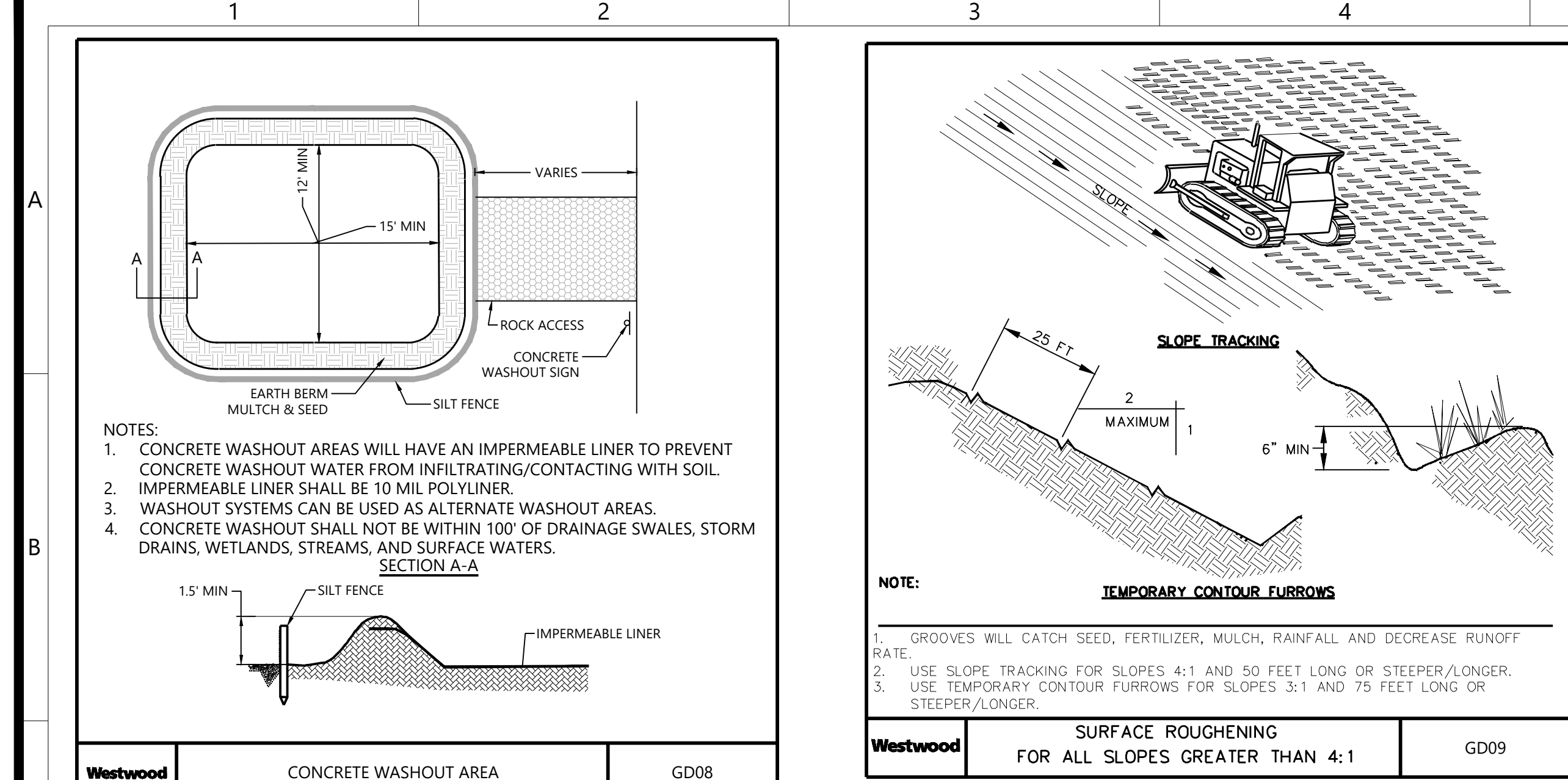
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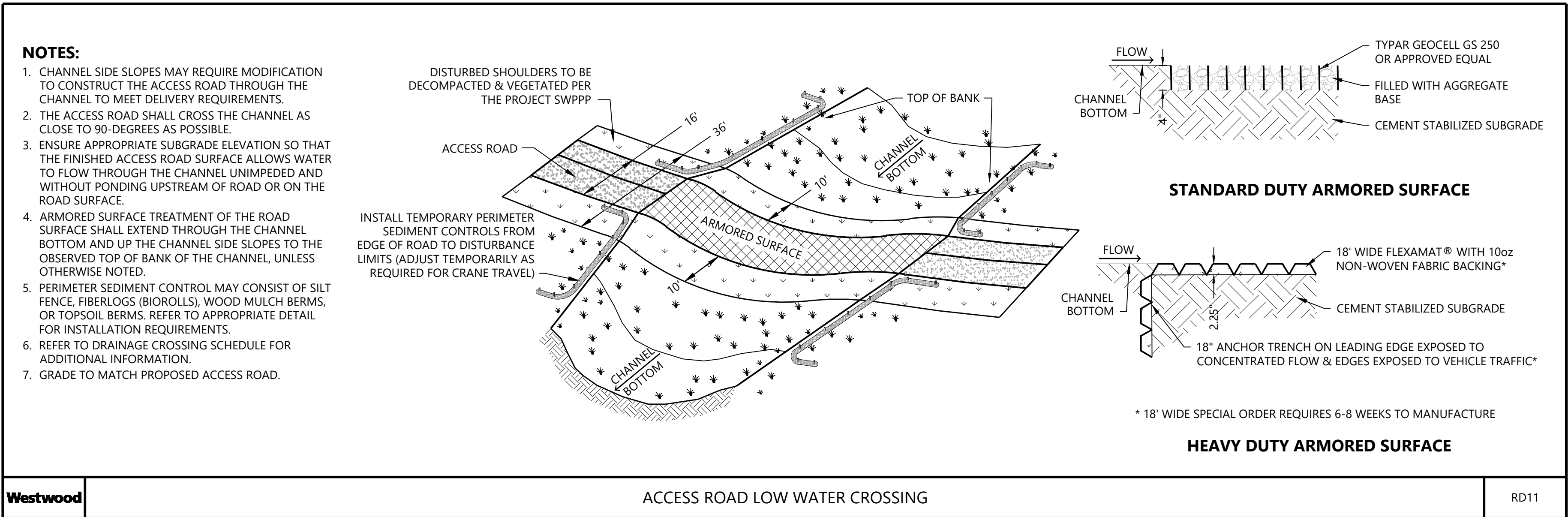
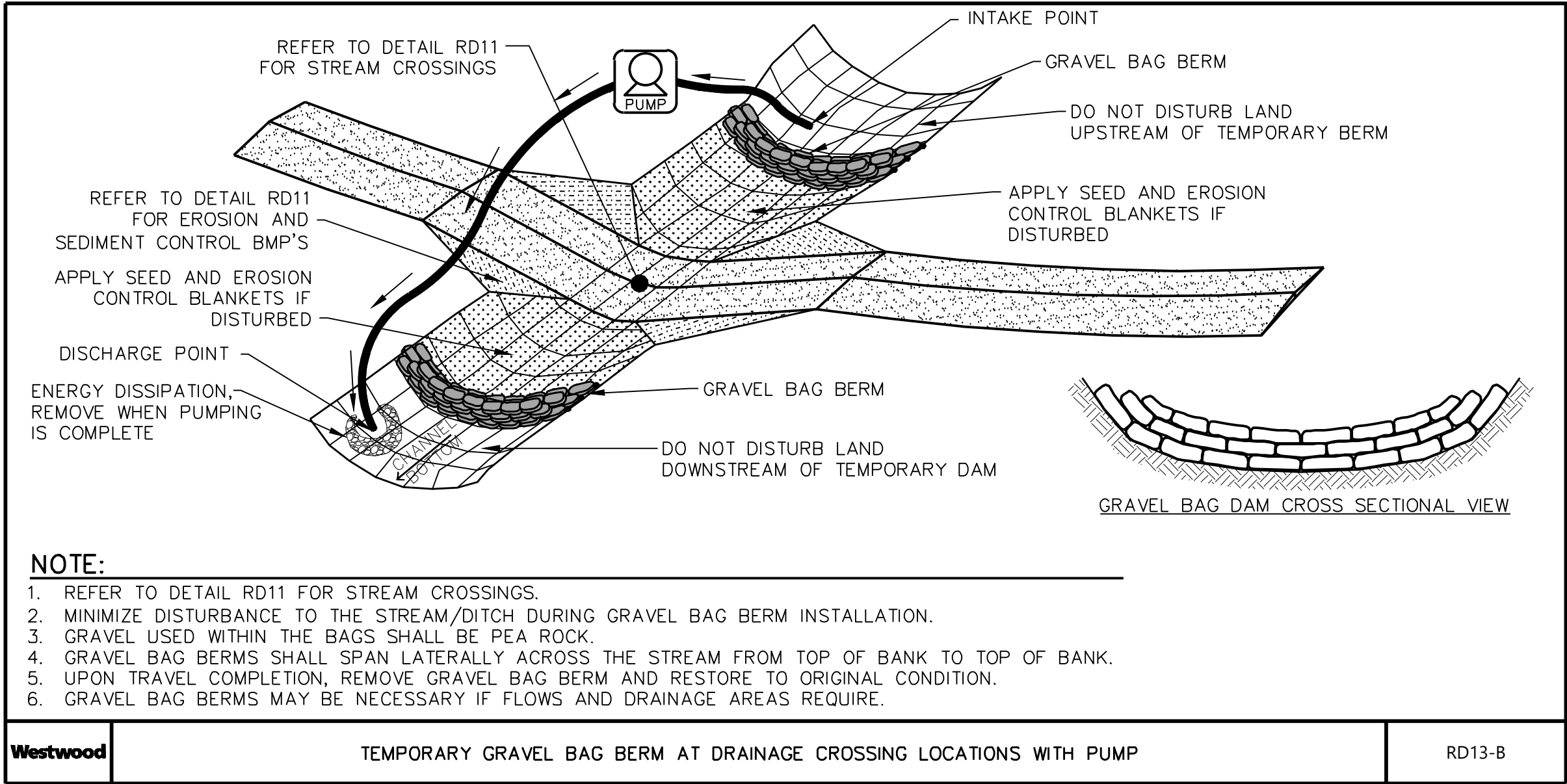
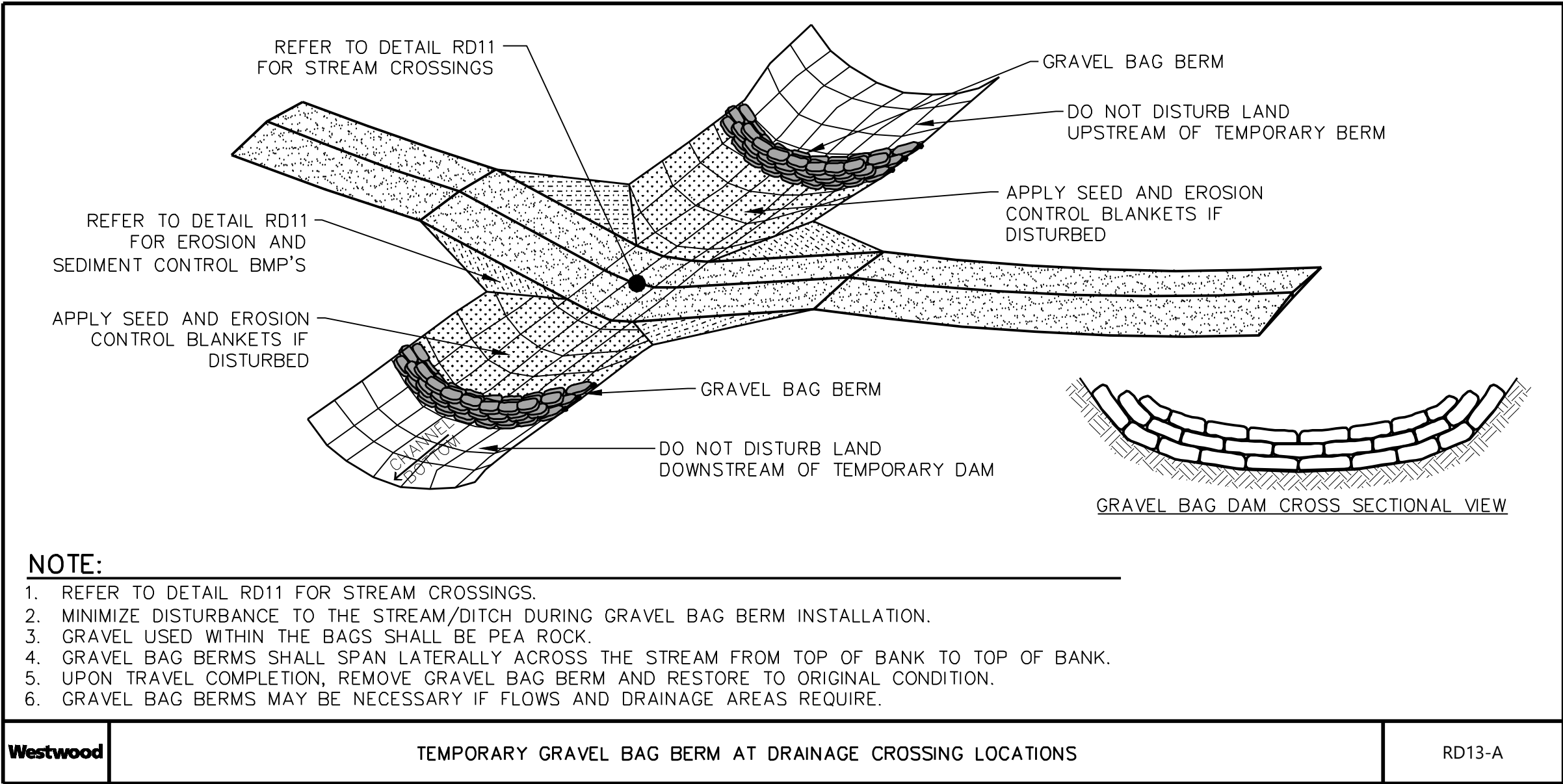
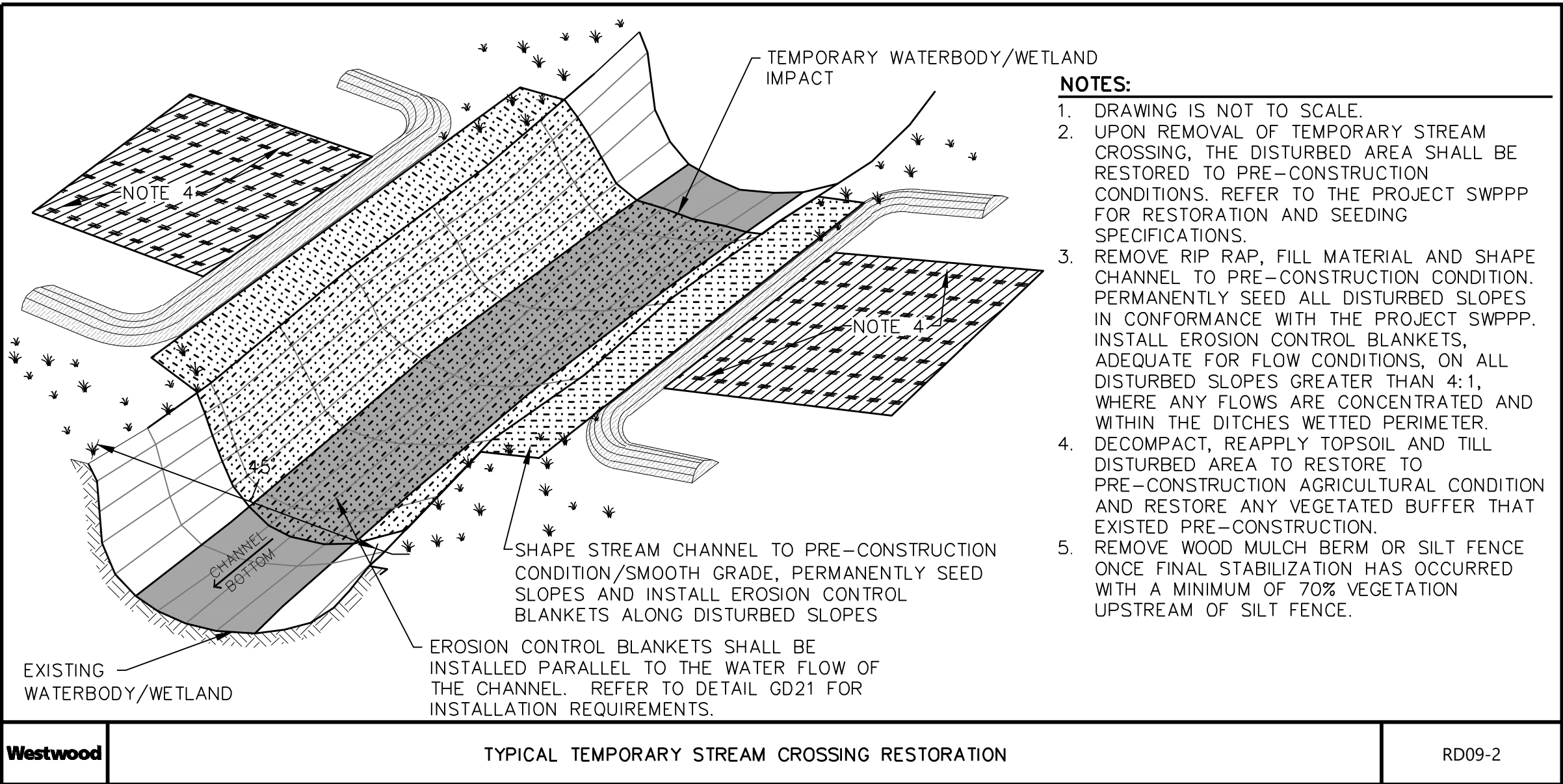
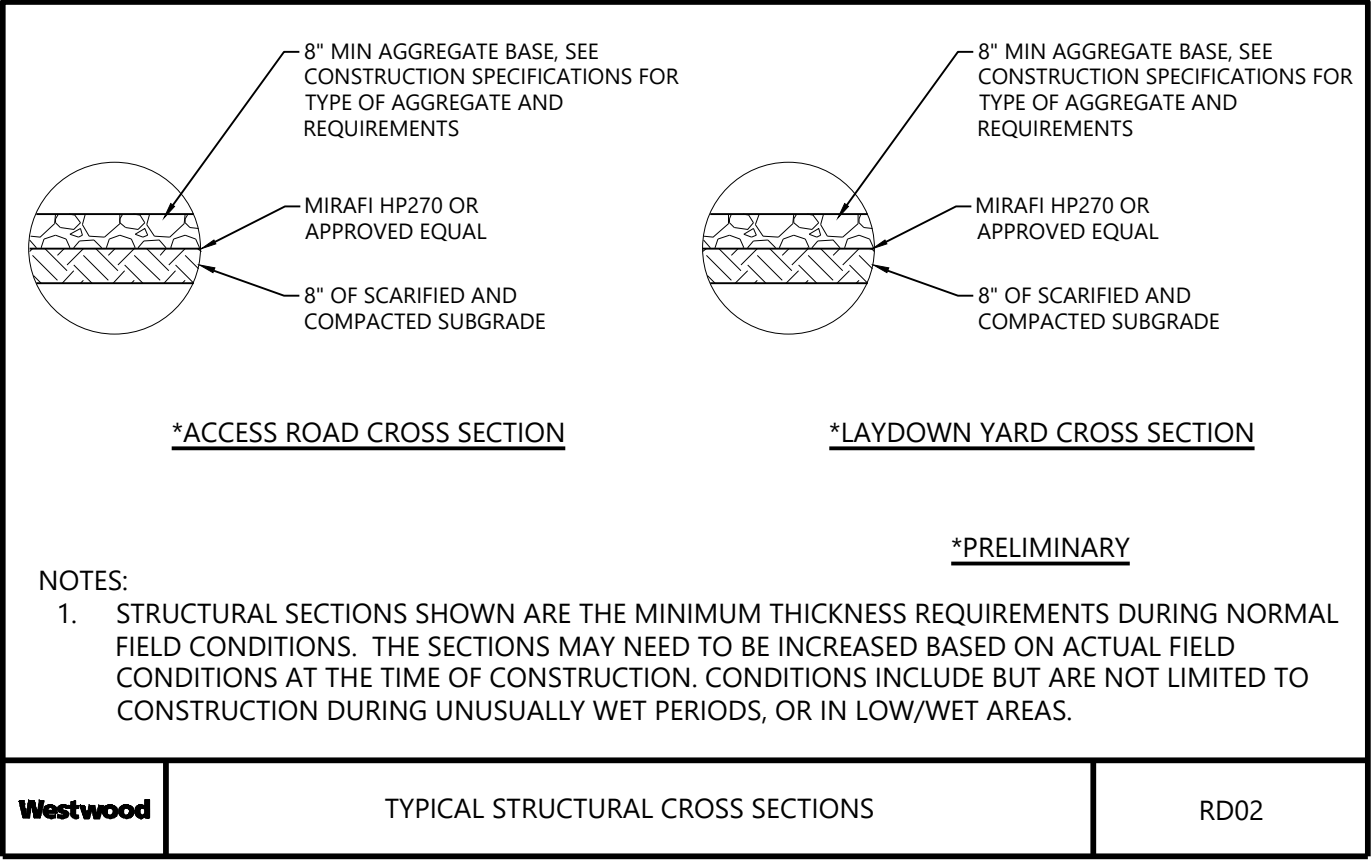
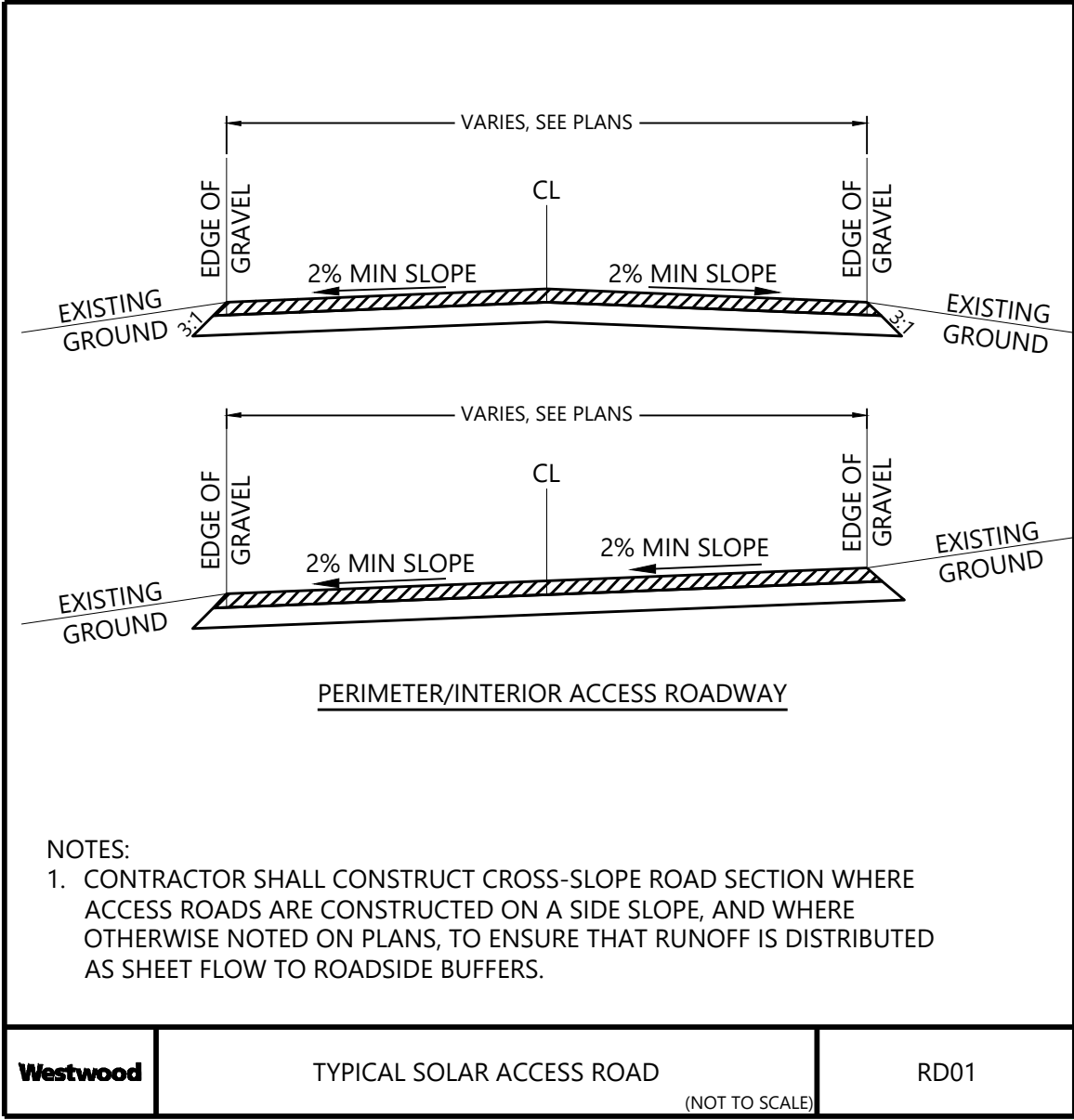
Construction Details - 1

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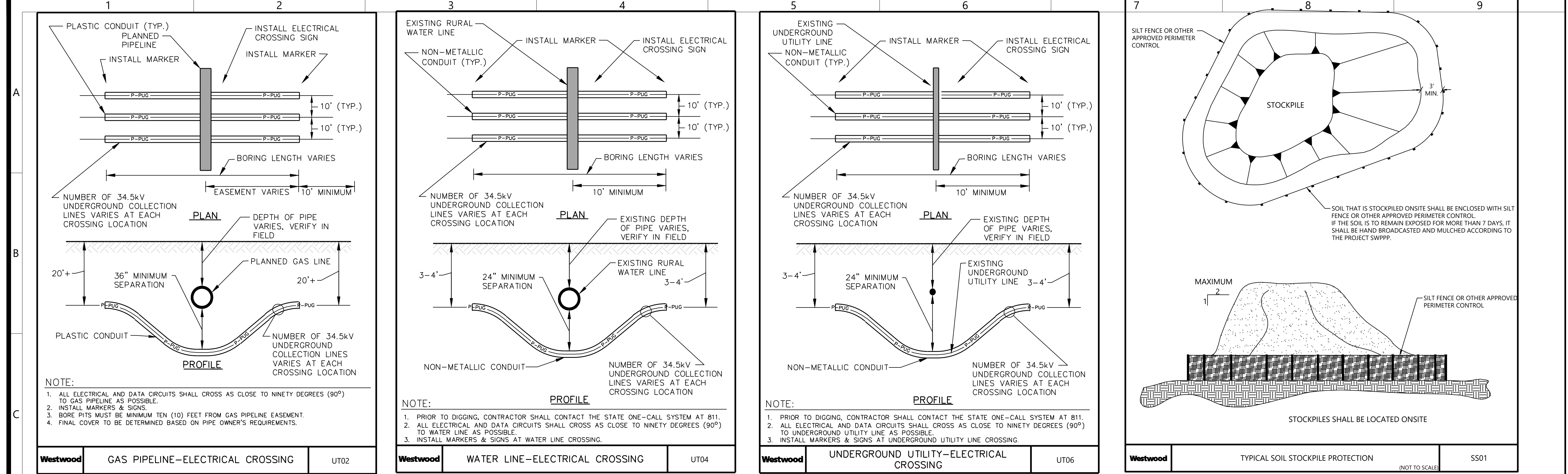
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Construction Details -
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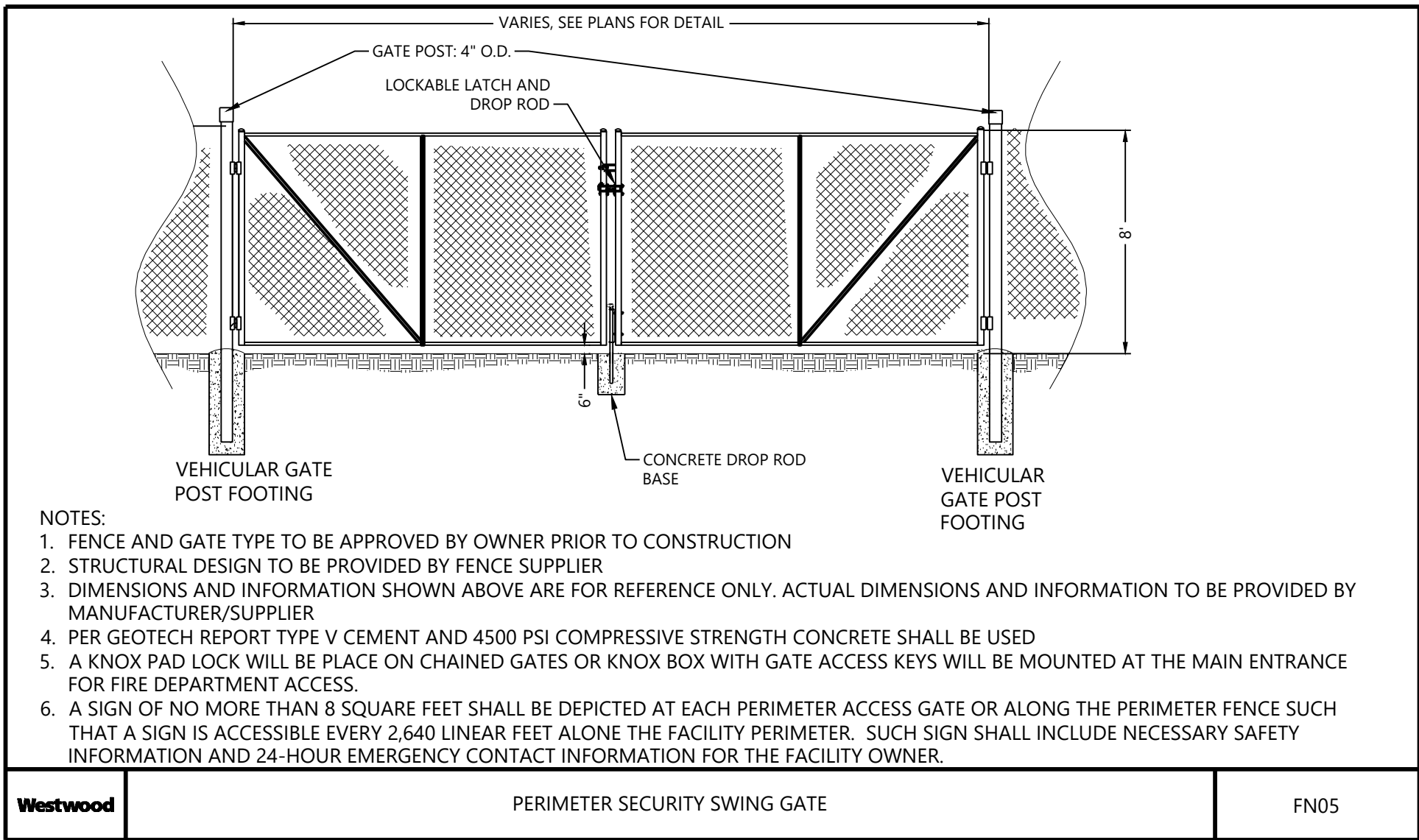
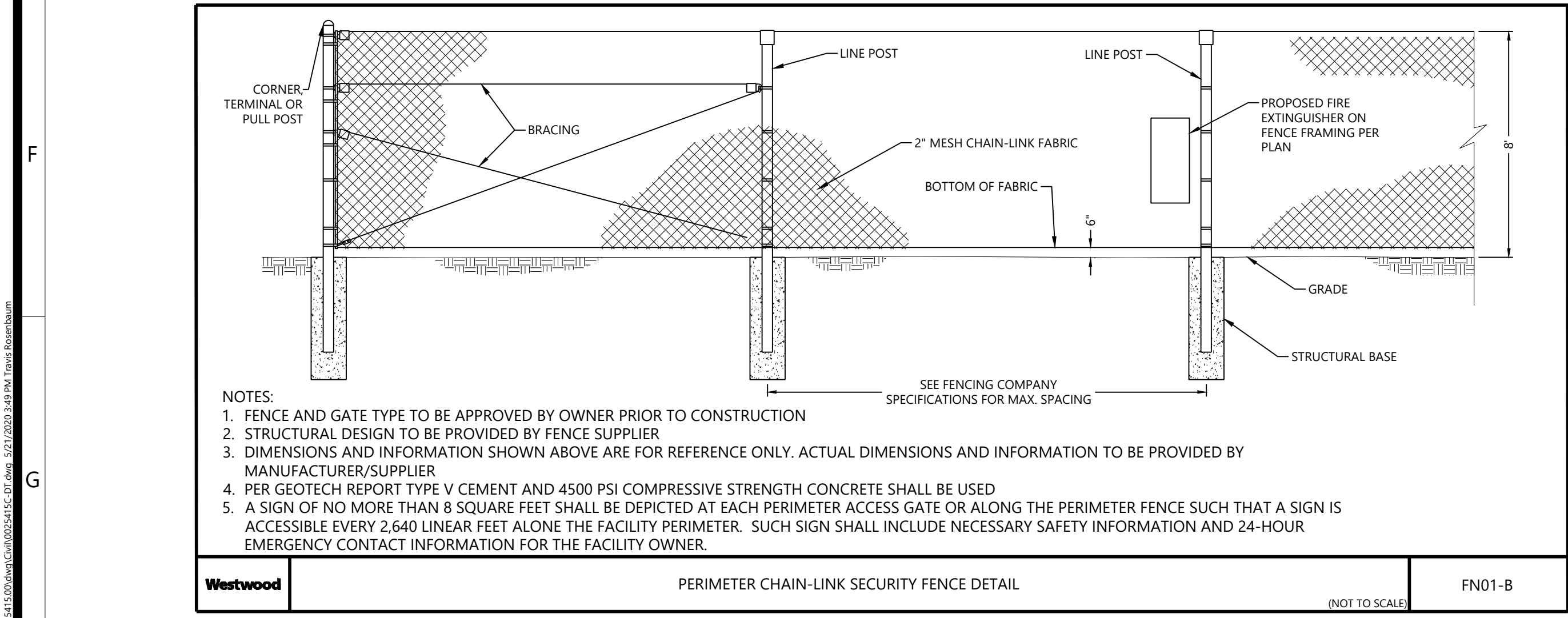
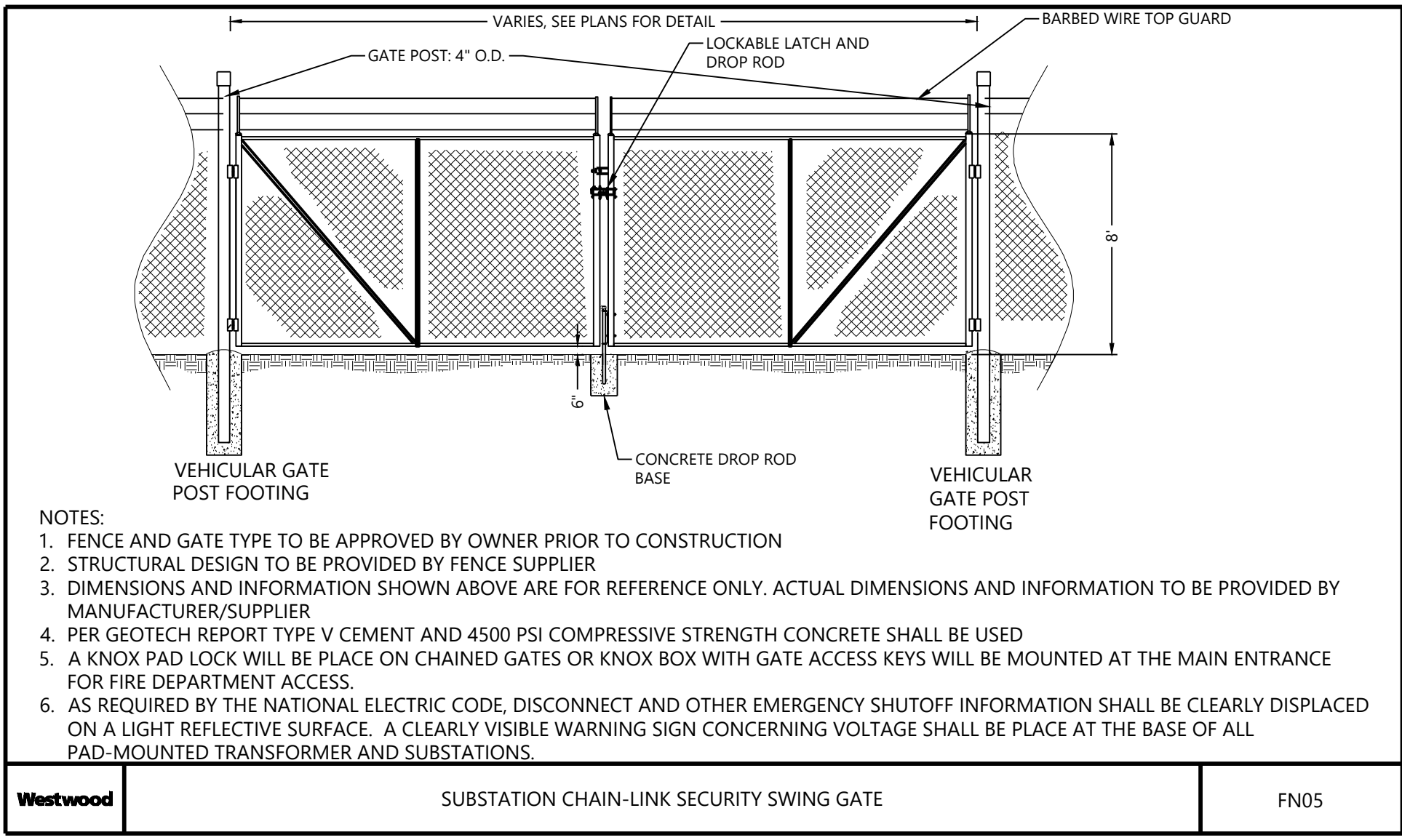
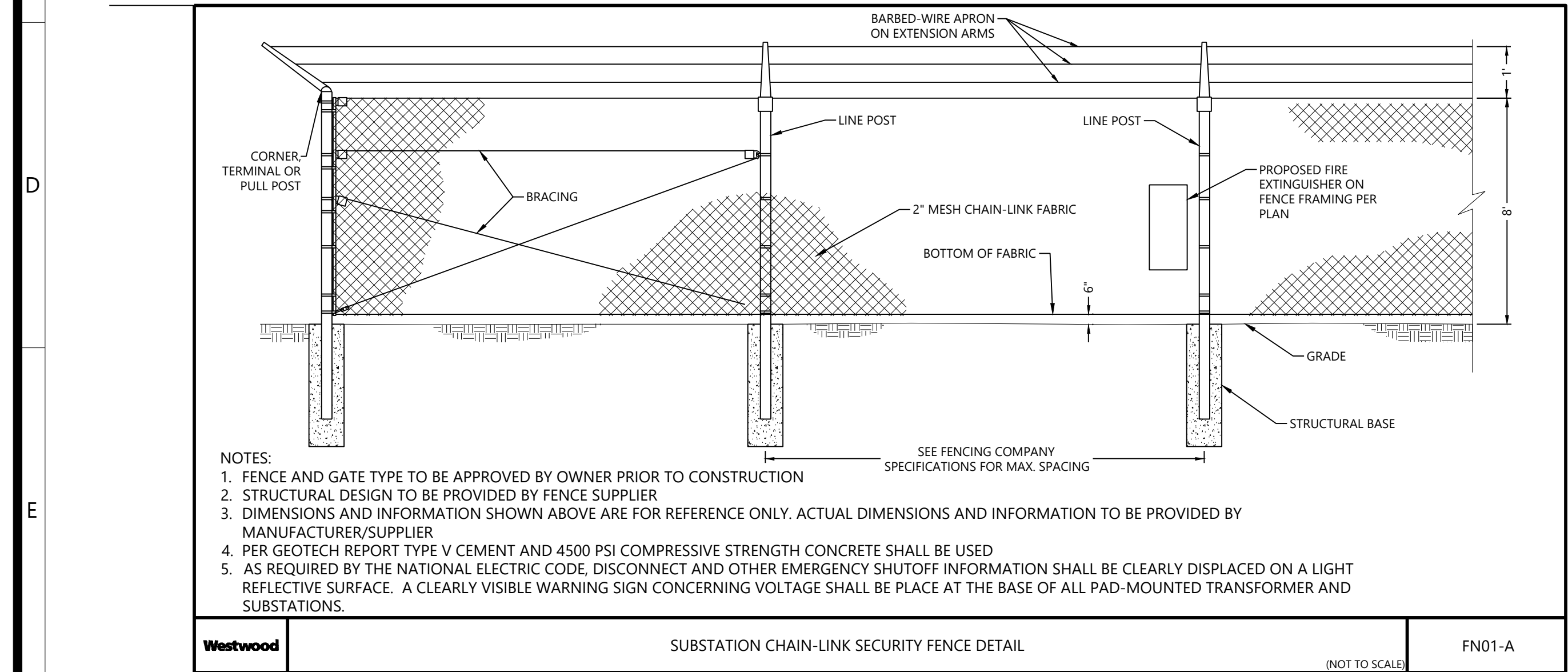
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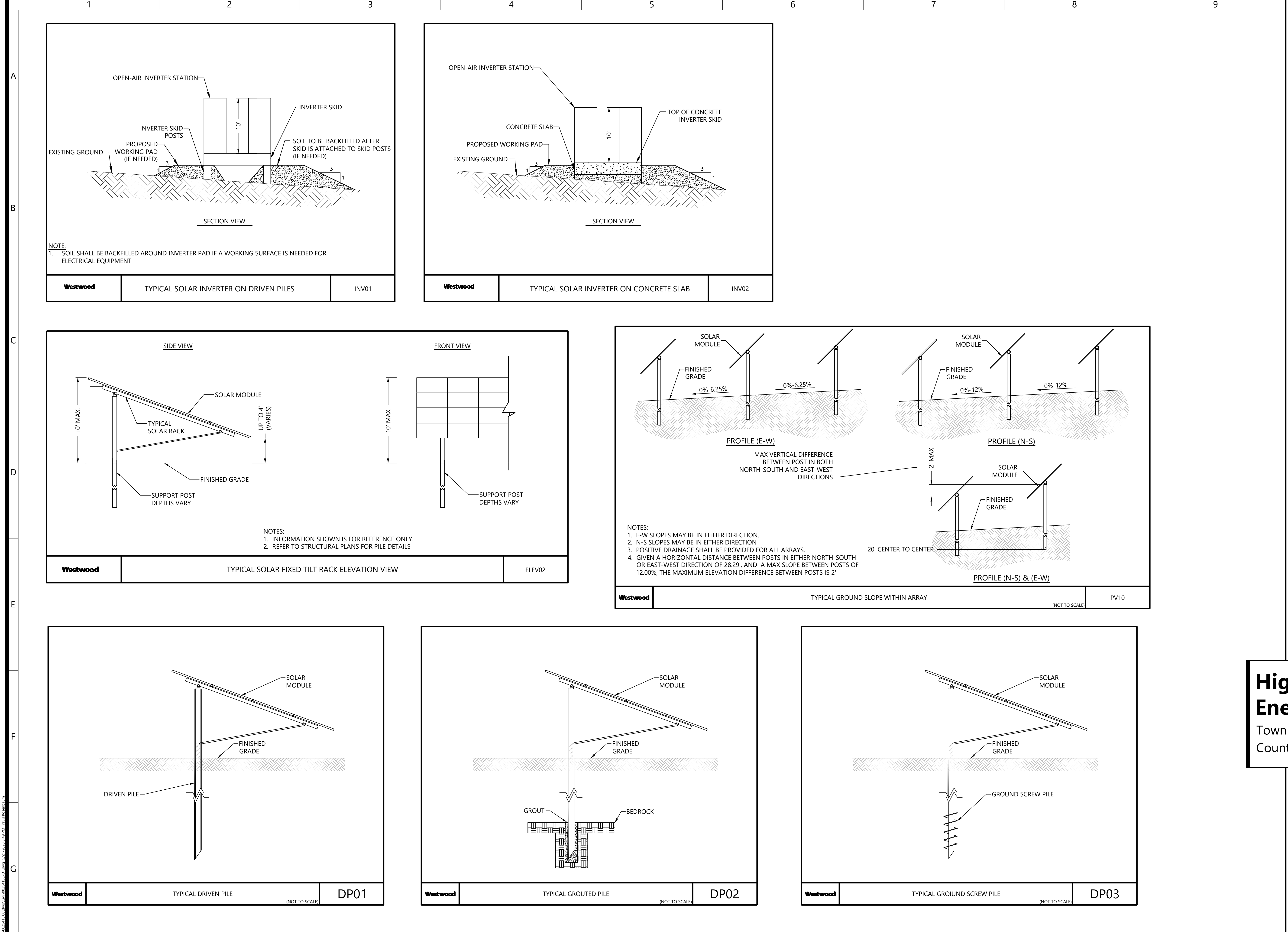
High River Solar Energy Center
Town of Florida, Montgomery County, New York

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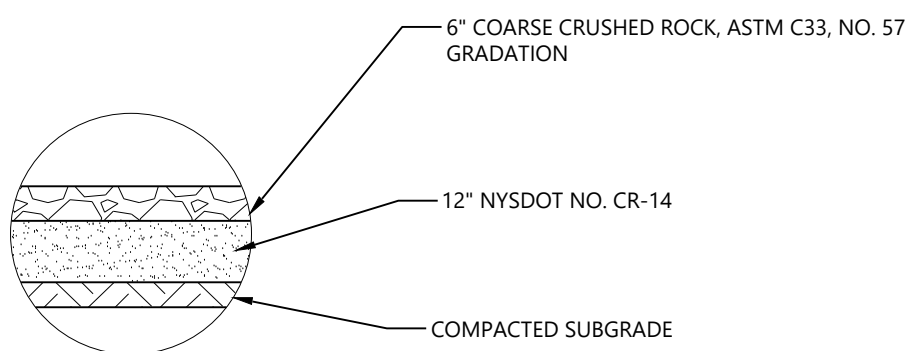
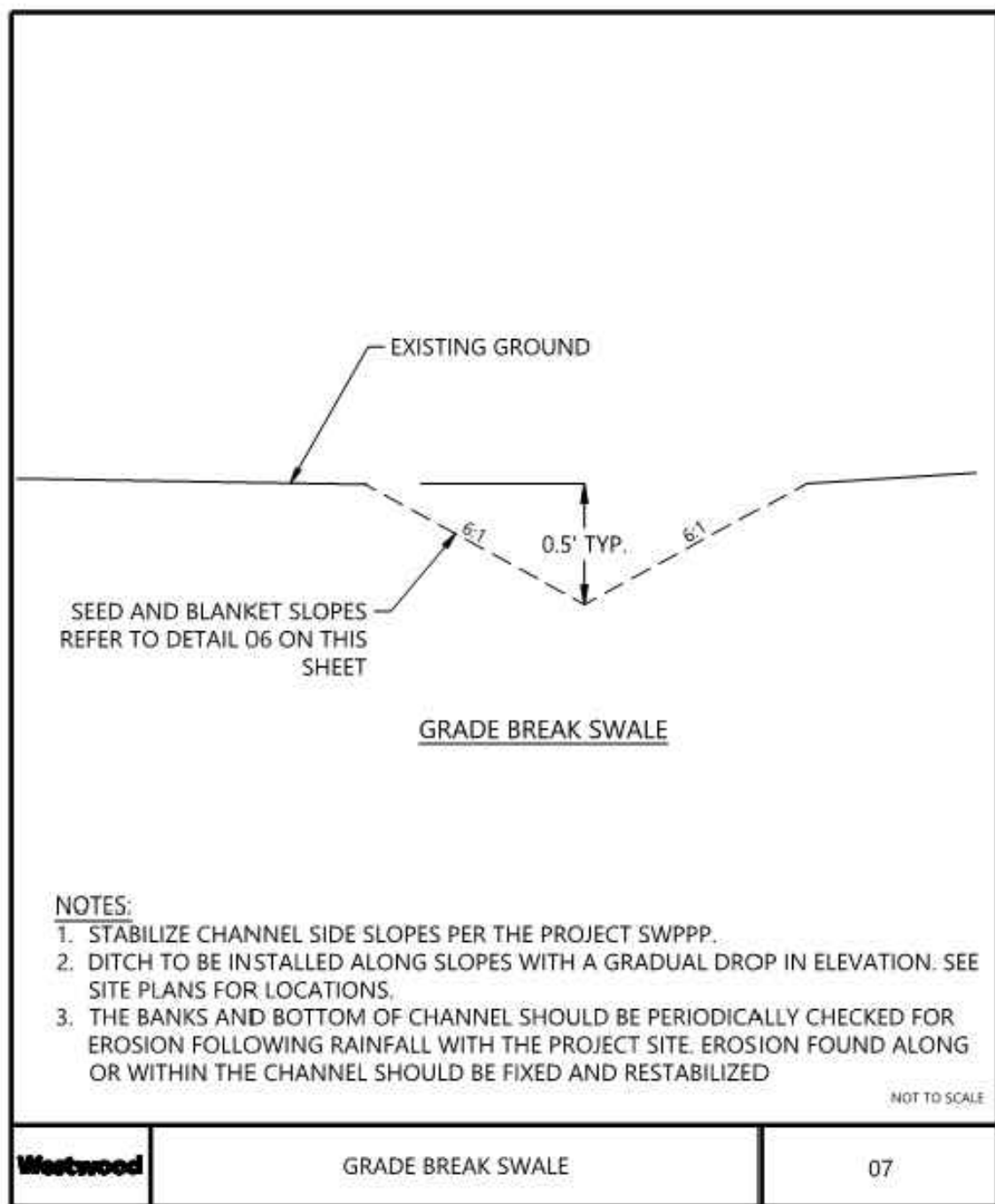
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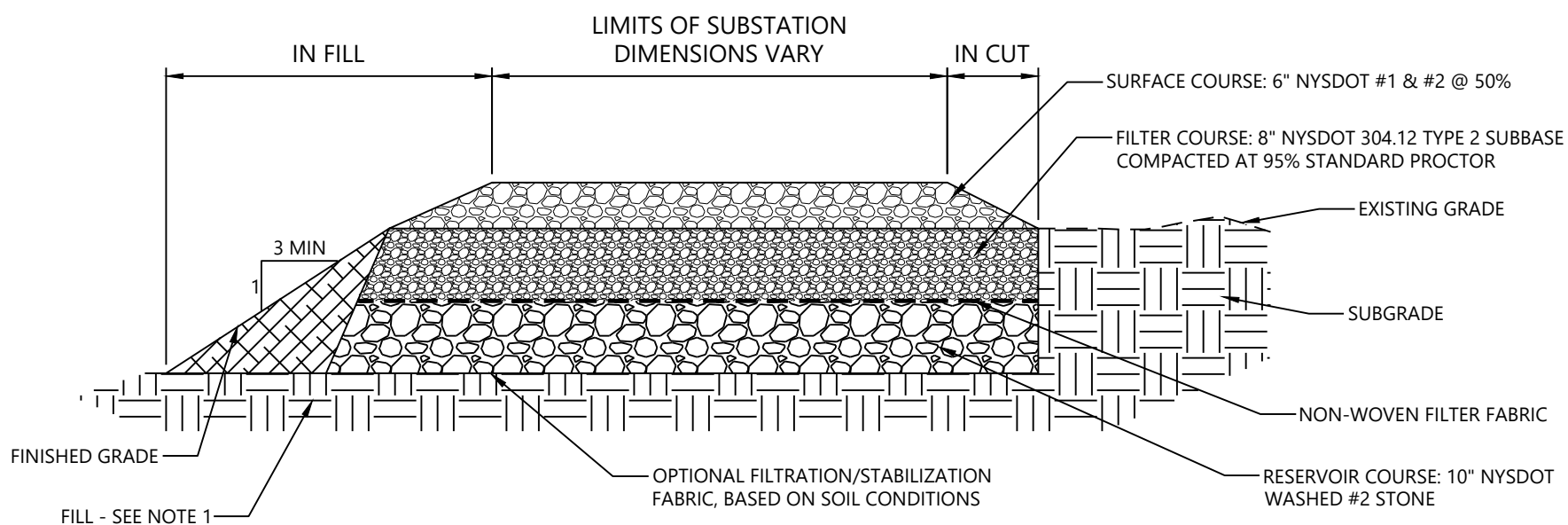
SUBSTATION PAD CROSS SECTION

*PRELIMINARY

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)).

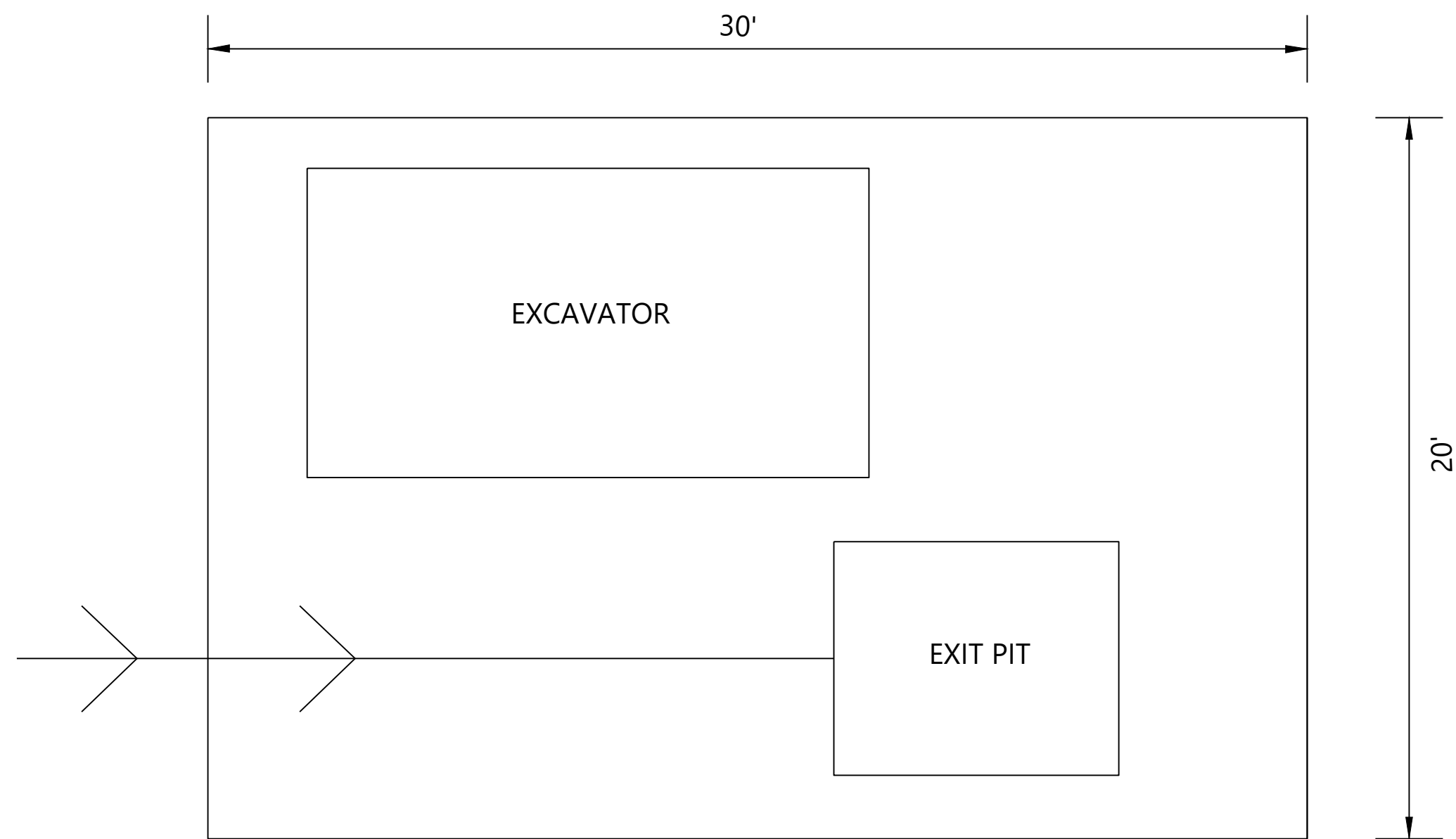
Westwood	SUBSTATION SECTION - OPTION 1: SUBSTATION PAD FILTRATION BASIN	RD02-A
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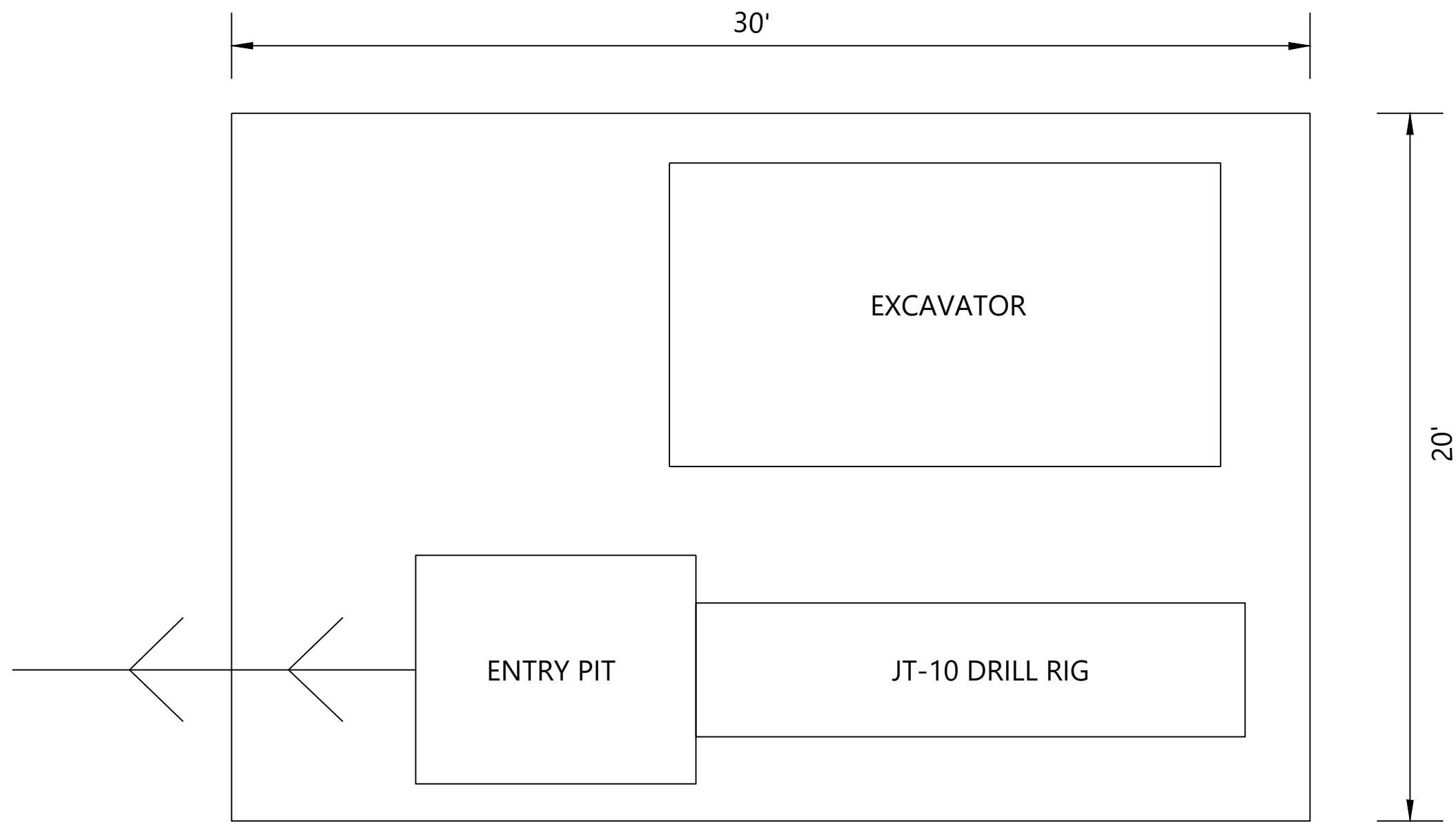
NOTES:

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 2010 NYS STORMWATER MANAGEMENT DESIGN MANUAL, OR APPROVED BY THE NYS DEC REGIONAL OFFICE OR NYS REPRESENTATIVE.
3. THIS SECTION SHALL BE APPLIED TO MEET THE STORMWATER MANAGEMENT REQUIREMENTS OF NEW DEVELOPMENT AND REDEVELOPMENT PROJECTS, PER THE 2010 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 NYS DETAIL (FIGURE 6.12 INFILTRATION BASIN (1-2)) IS NOT USED, CONTRACTOR TO USE DETAIL RD02-8.

Westwood	SUBSTATION SECTION - OPTION 2: SUBSTATION PAD FILTRATION BASIN	RD02-B
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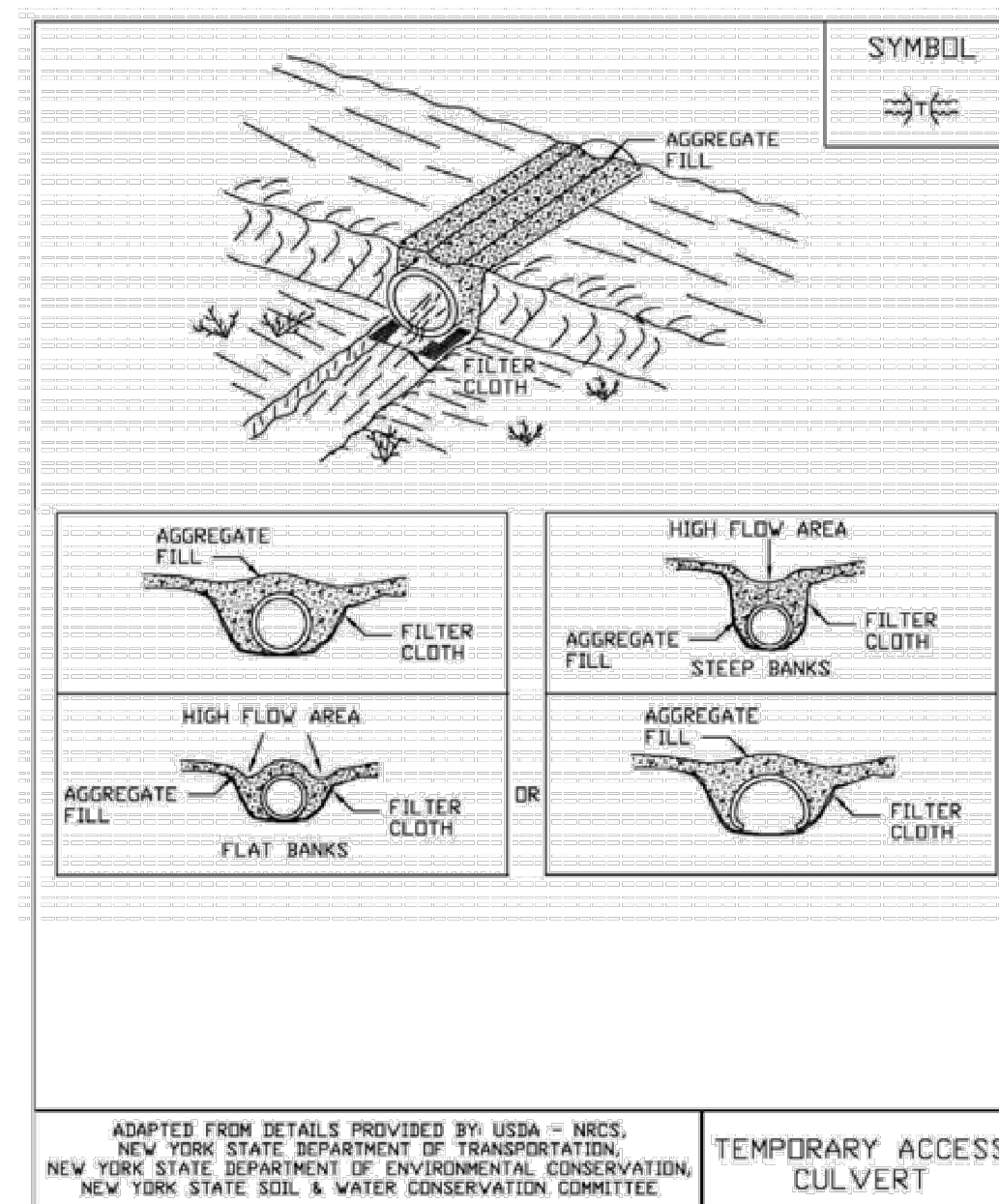
HDD RECEIVING SITE SCHEMATIC



DRILL OPERATION SITE SCHEMATIC

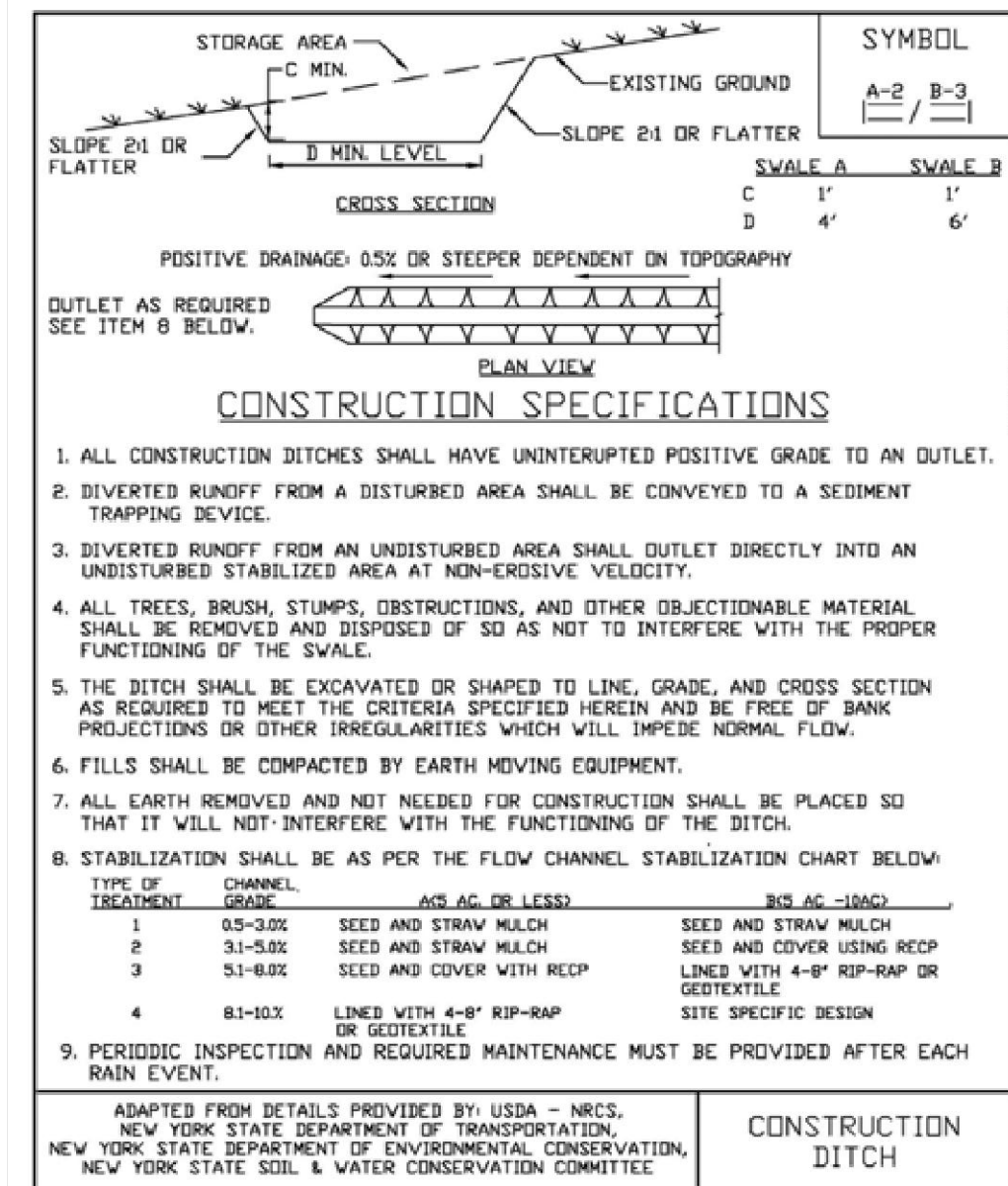
Westwood	HORIZONTAL DIRECTIONAL DRILLING PIT SCHEMATIC (NTS)	HDD-01
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Figure 2.3
Temporary Access Culvert



New York State Standards and Specifications
For Erosion and Sediment Control
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Figure 3.2
Construction Ditch Detail

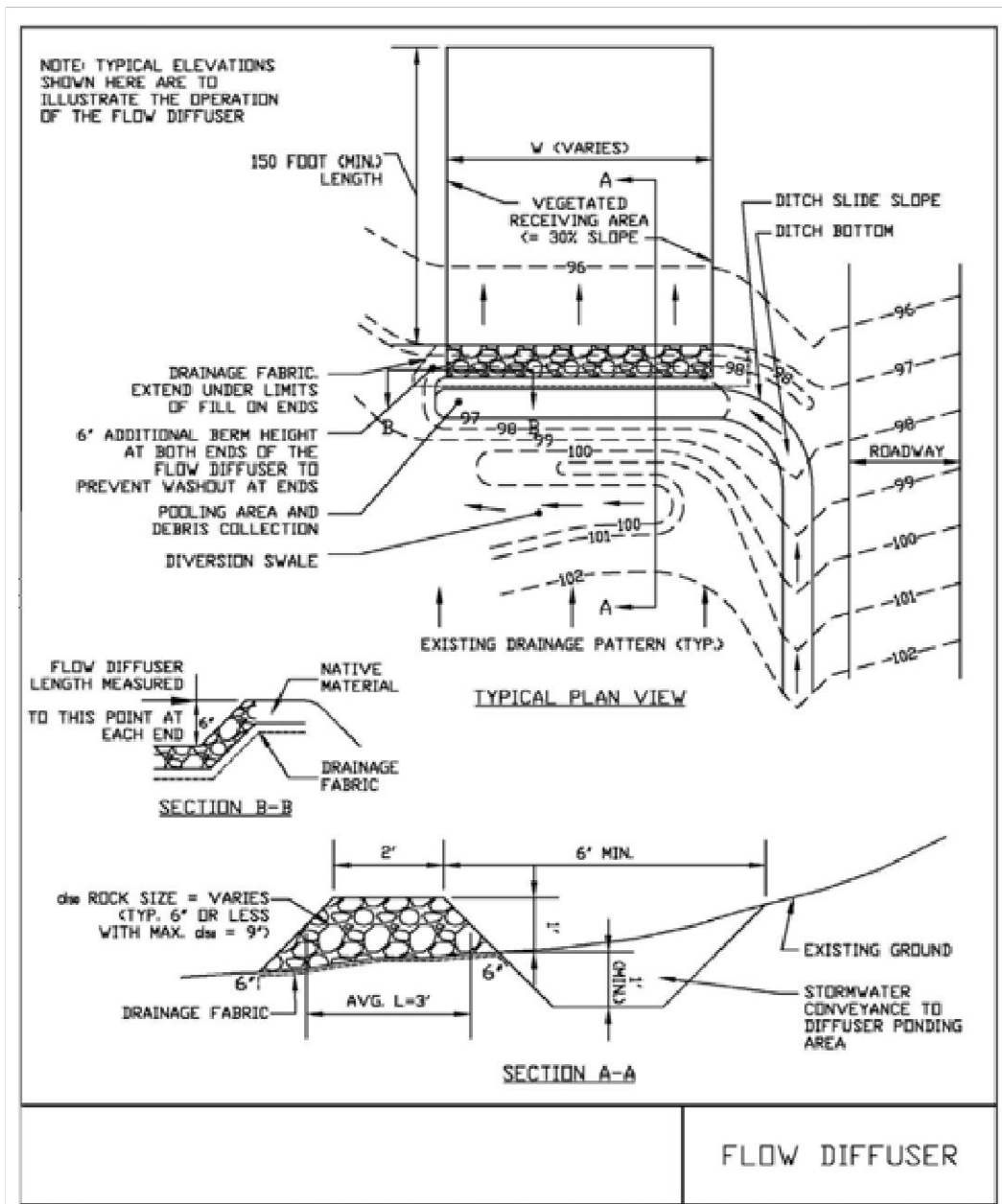


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For Erosion and Sediment Control

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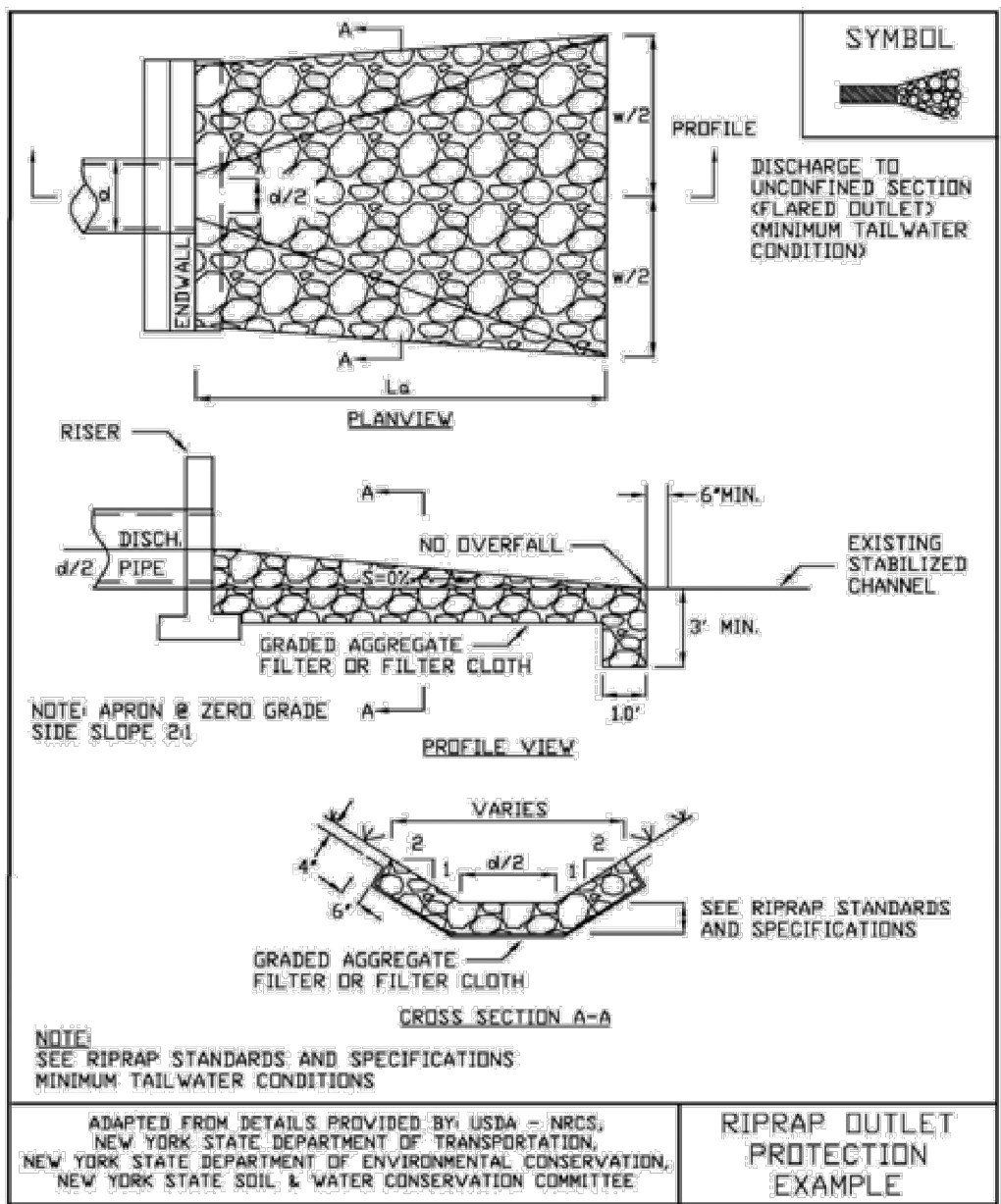
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Figure 3.6
Flow Diffuser Detail



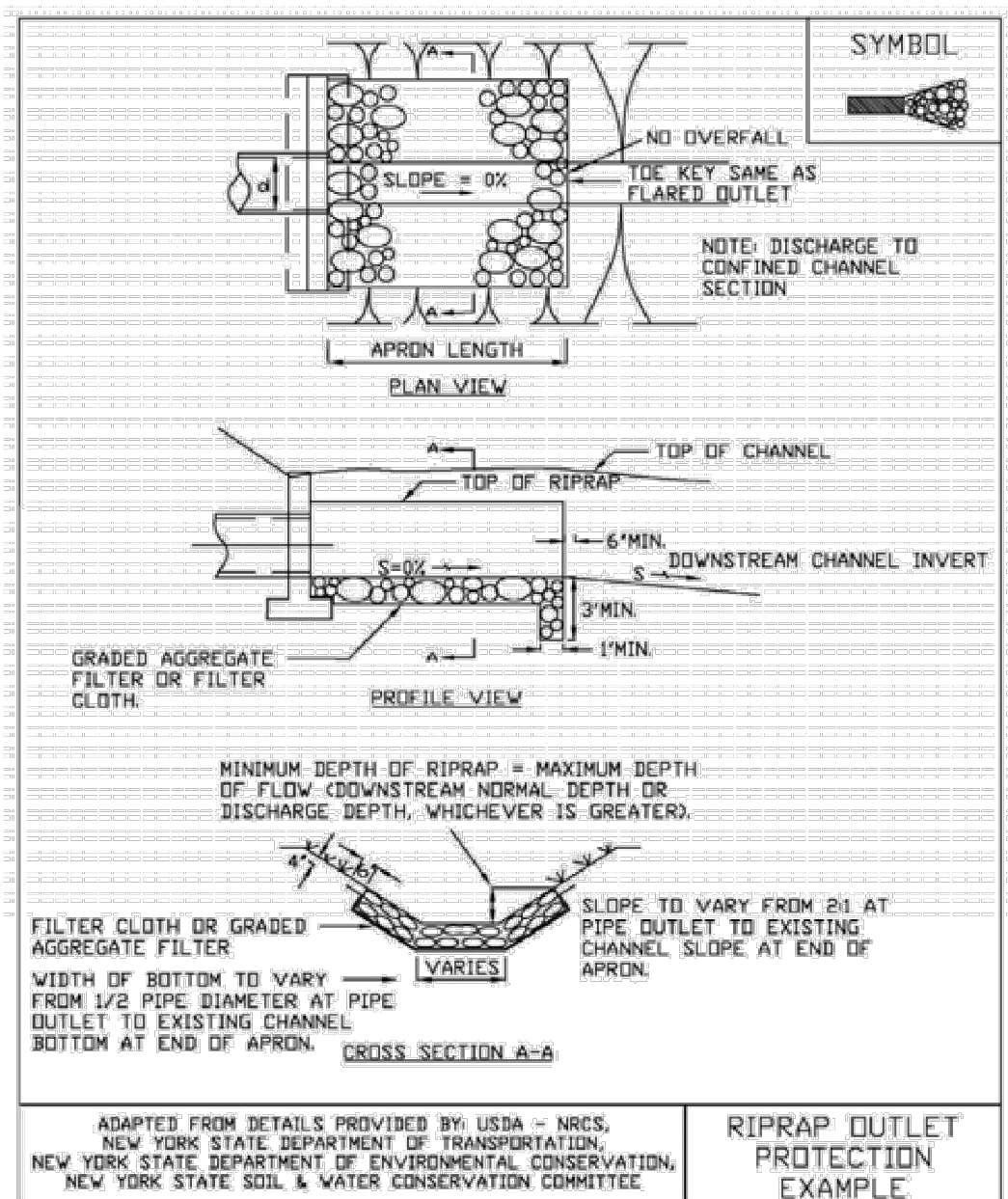
November 2016 Page 3.18 New York State Standards and Specifications For Erosion and Sediment Control

Figure 3.18
Riprap Outlet Protection Detail (1)



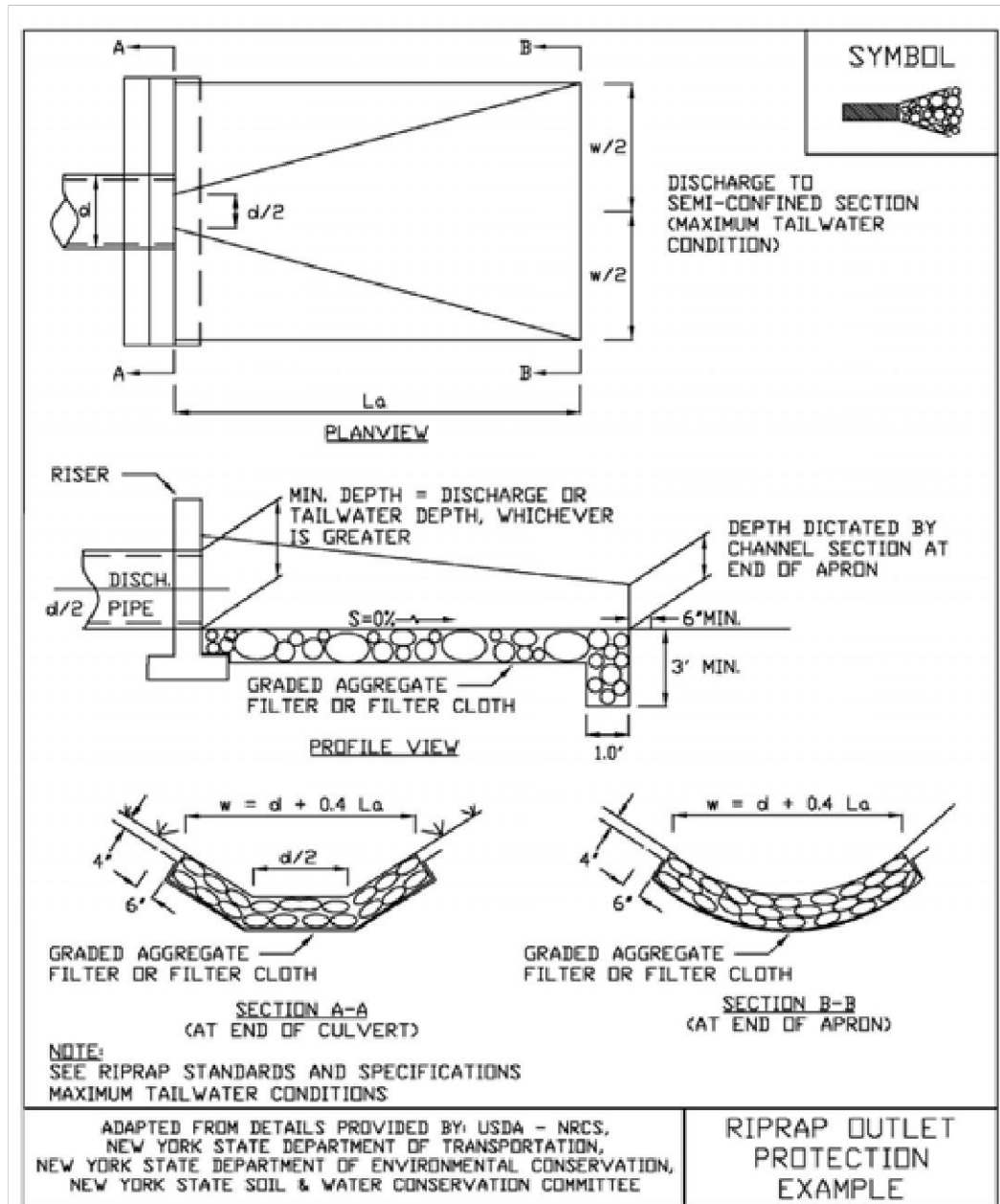
New York State Standards and Specifications For Erosion and Sediment Control Page 3.44 November 2016

Figure 3.19
Riprap Outlet Protection Detail (2)



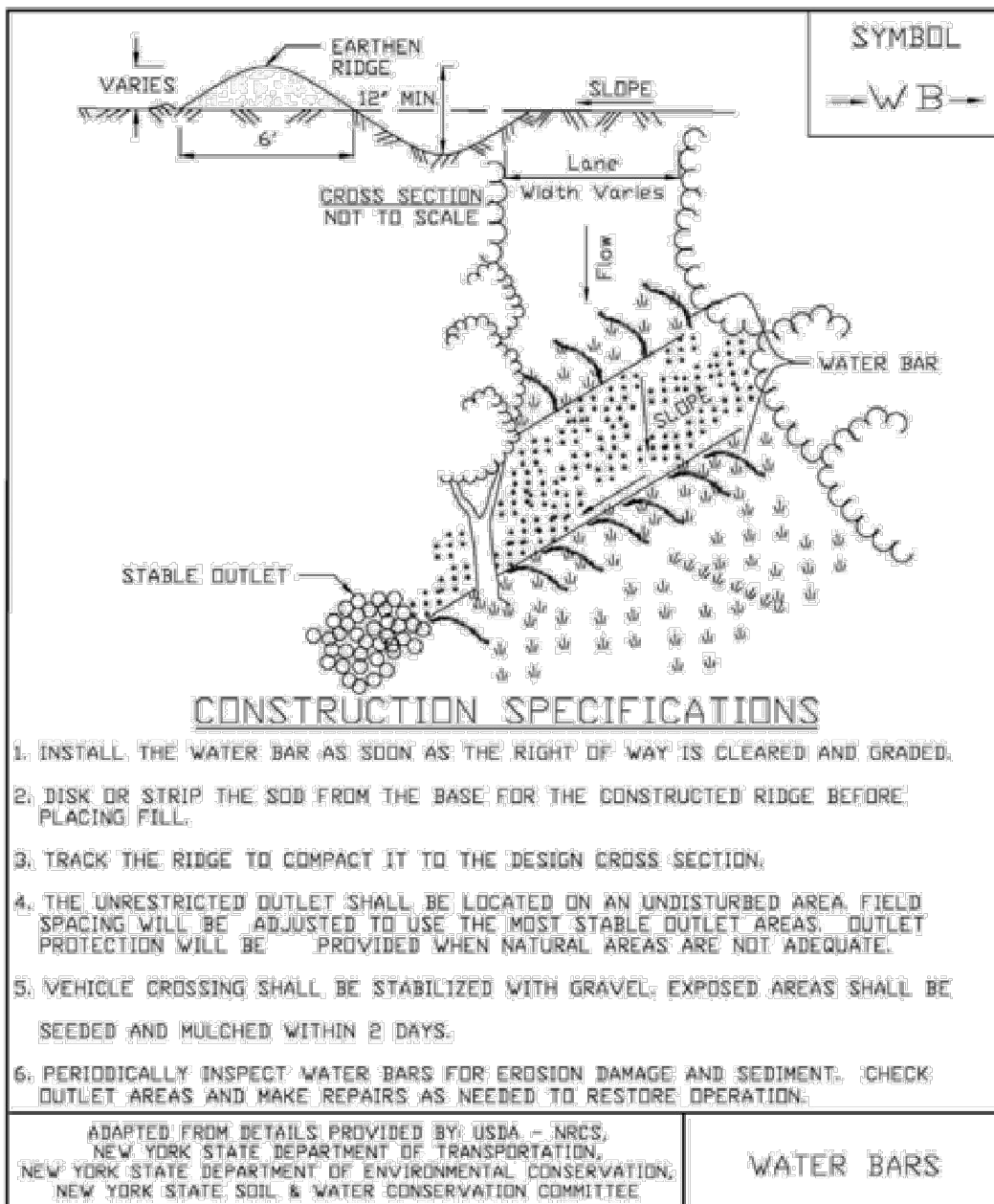
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Figure 3.20
Riprap Outlet Protection Detail (3)



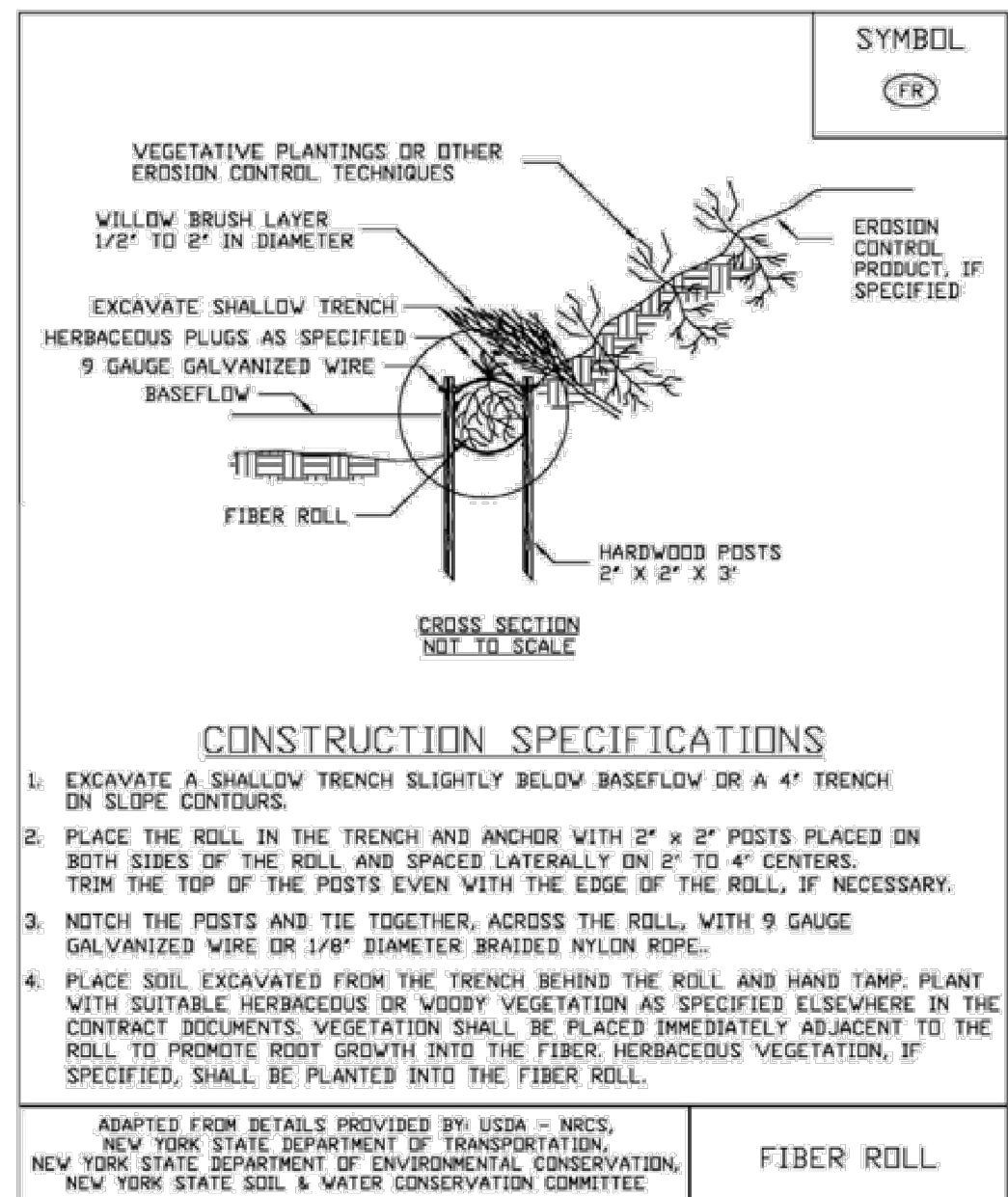
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Figure 3.22
Water Bar Detail



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Figure 4.8
Fiber Roll



New York State Standards and Specifications For Erosion and Sediment Control Page 4.23 November 2016

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Figure 4.1
Angles of Repose of Riprap Stones (FHWA)

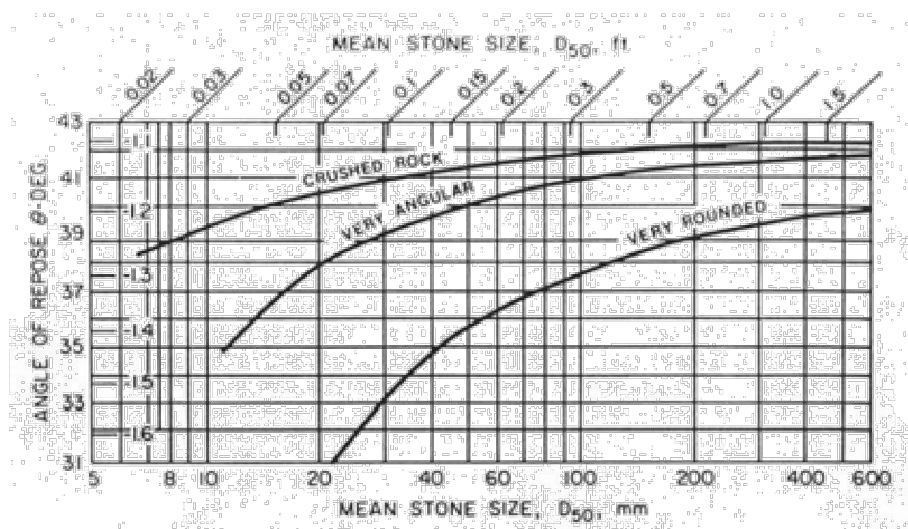
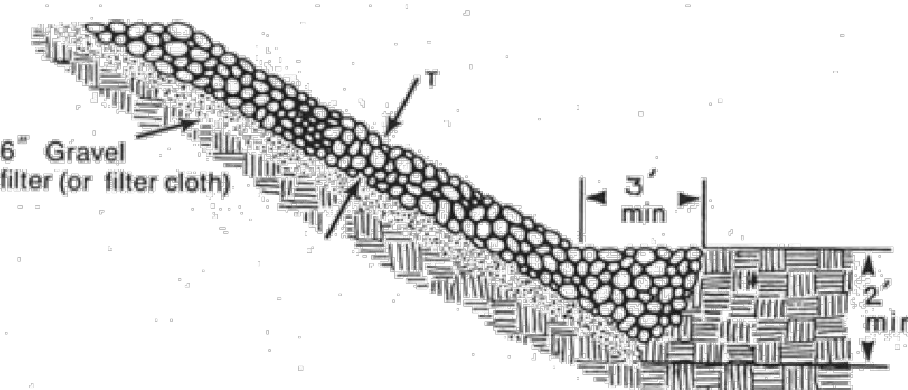


Figure 4.2
Typical Riprap Slope Protection Detail

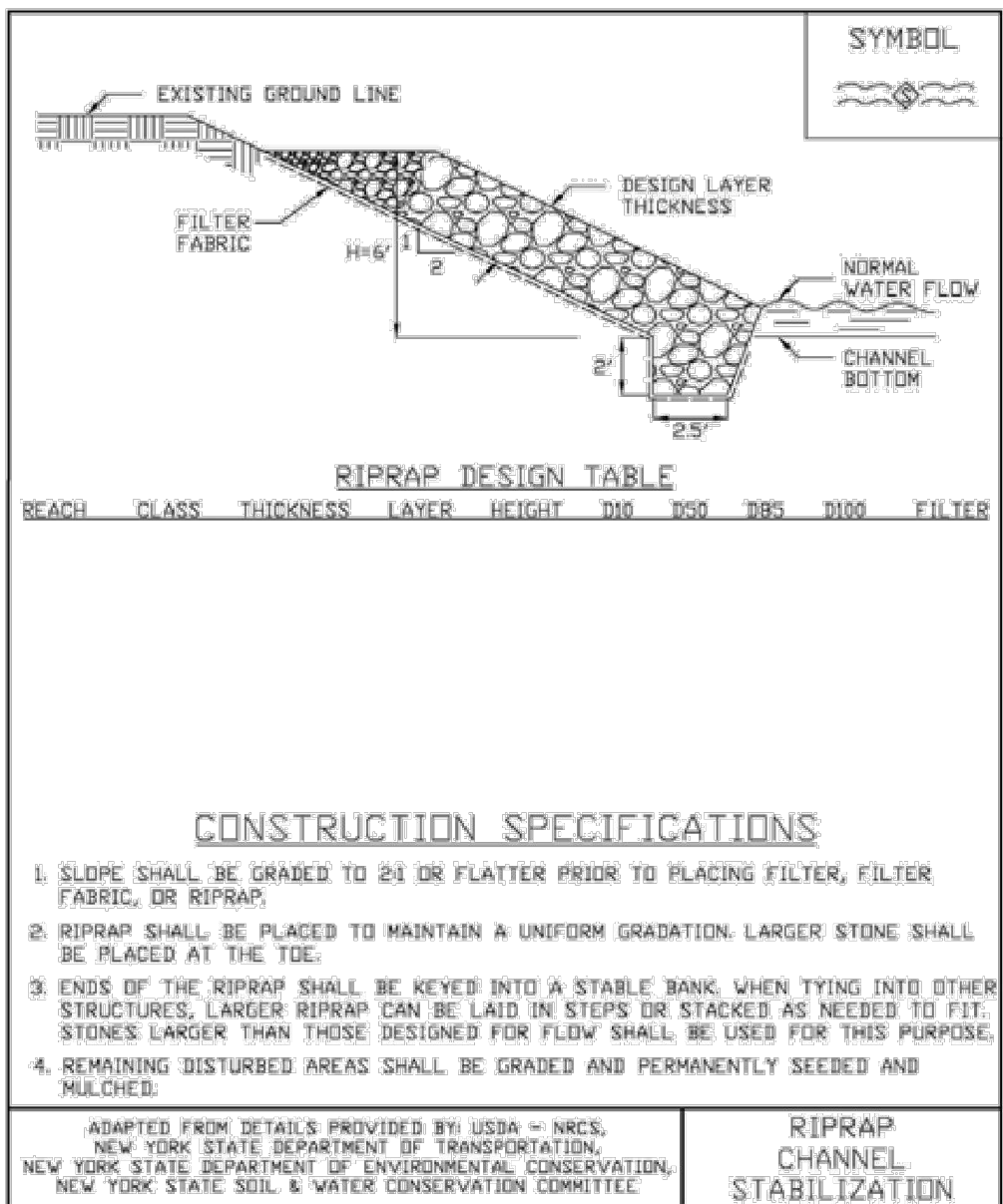


New York State Standards and Specifications
For Erosion and Sediment Control

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Figure 4.3
Riprap Channel Stabilization

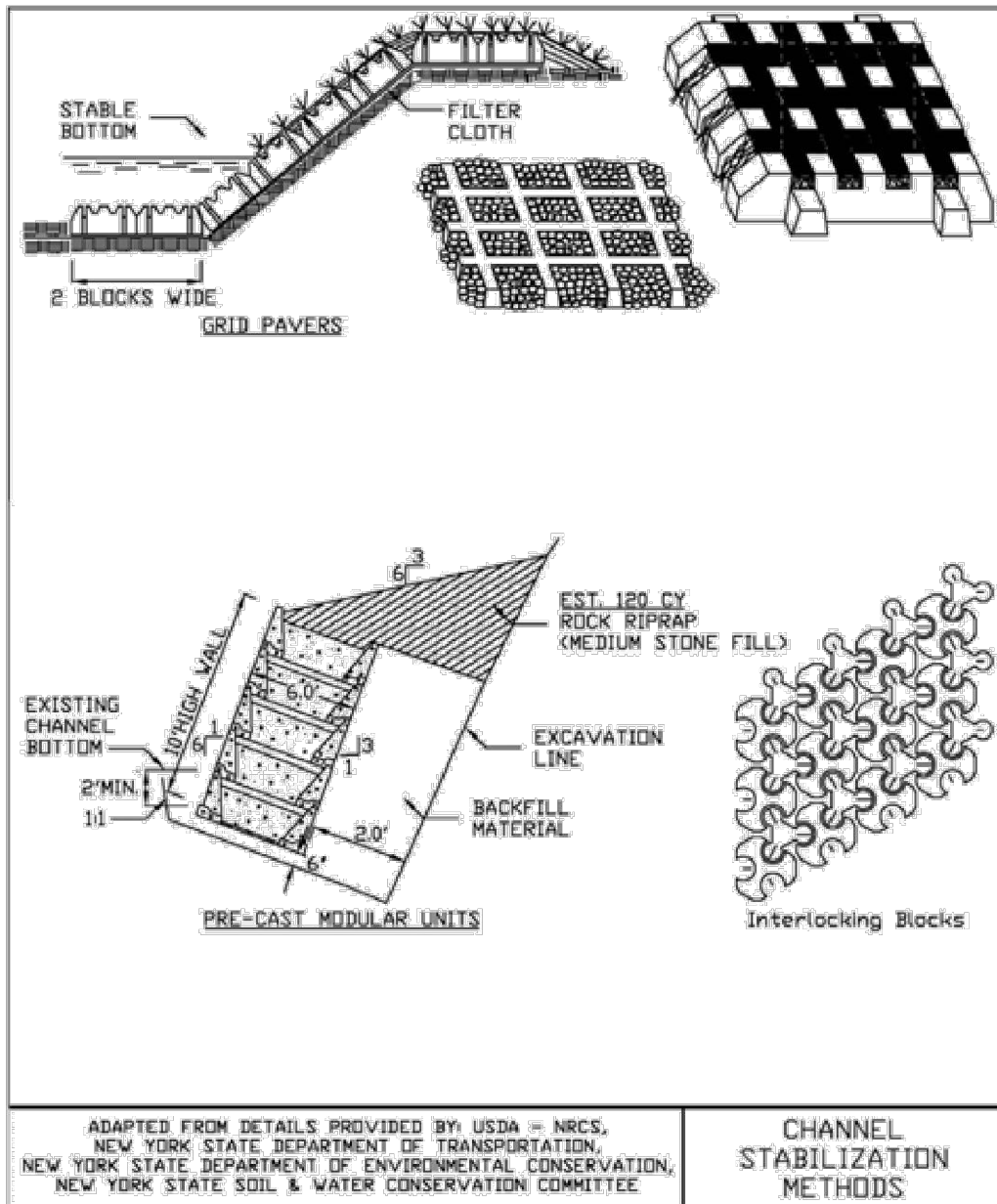


New York State Standards and Specifications
For Erosion and Sediment Control

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Figure 4.4
Channel Stabilization Methods

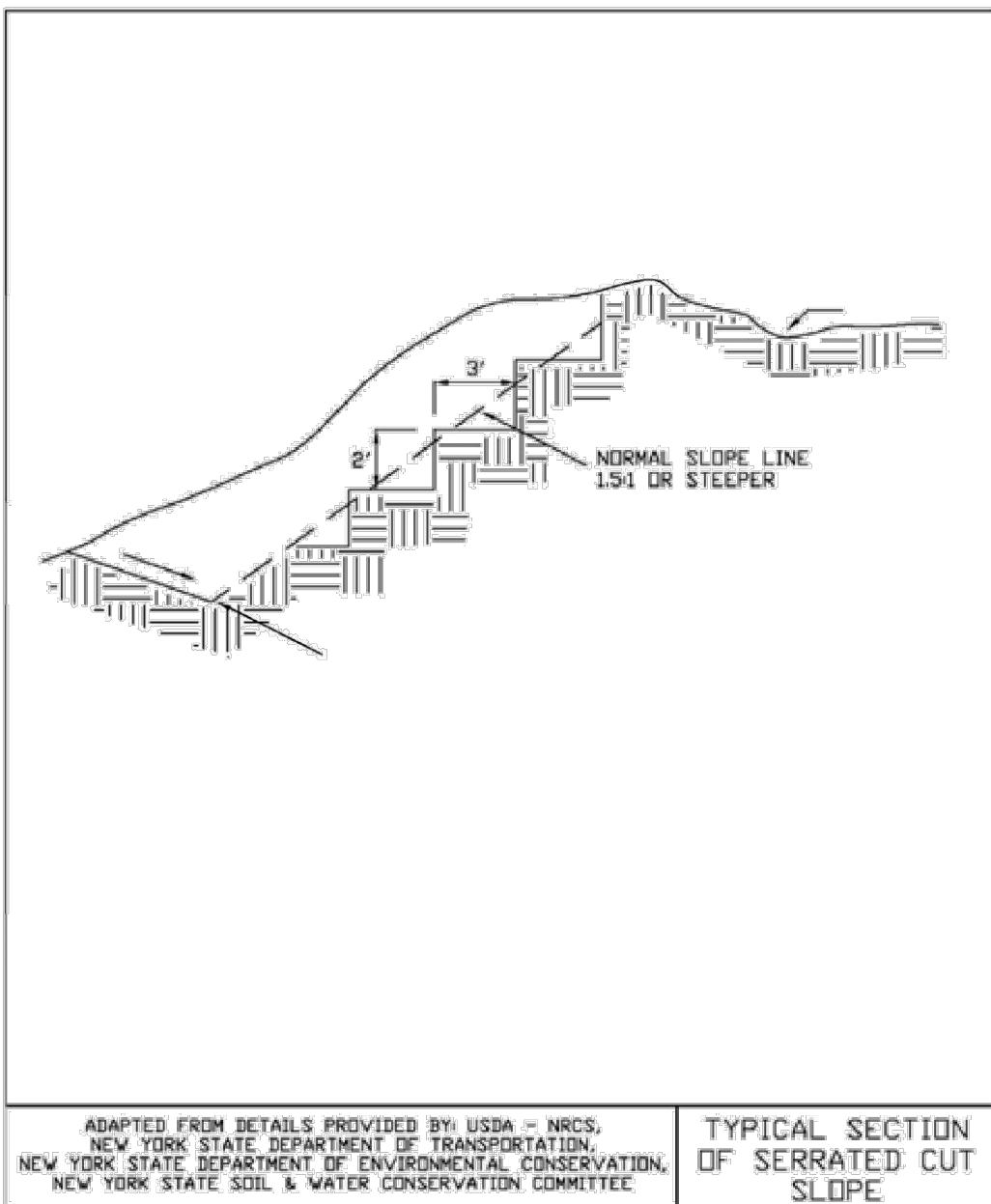


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For Erosion and Sediment Control

Figure 4.9
Typical Section of Serrated Cut Slope

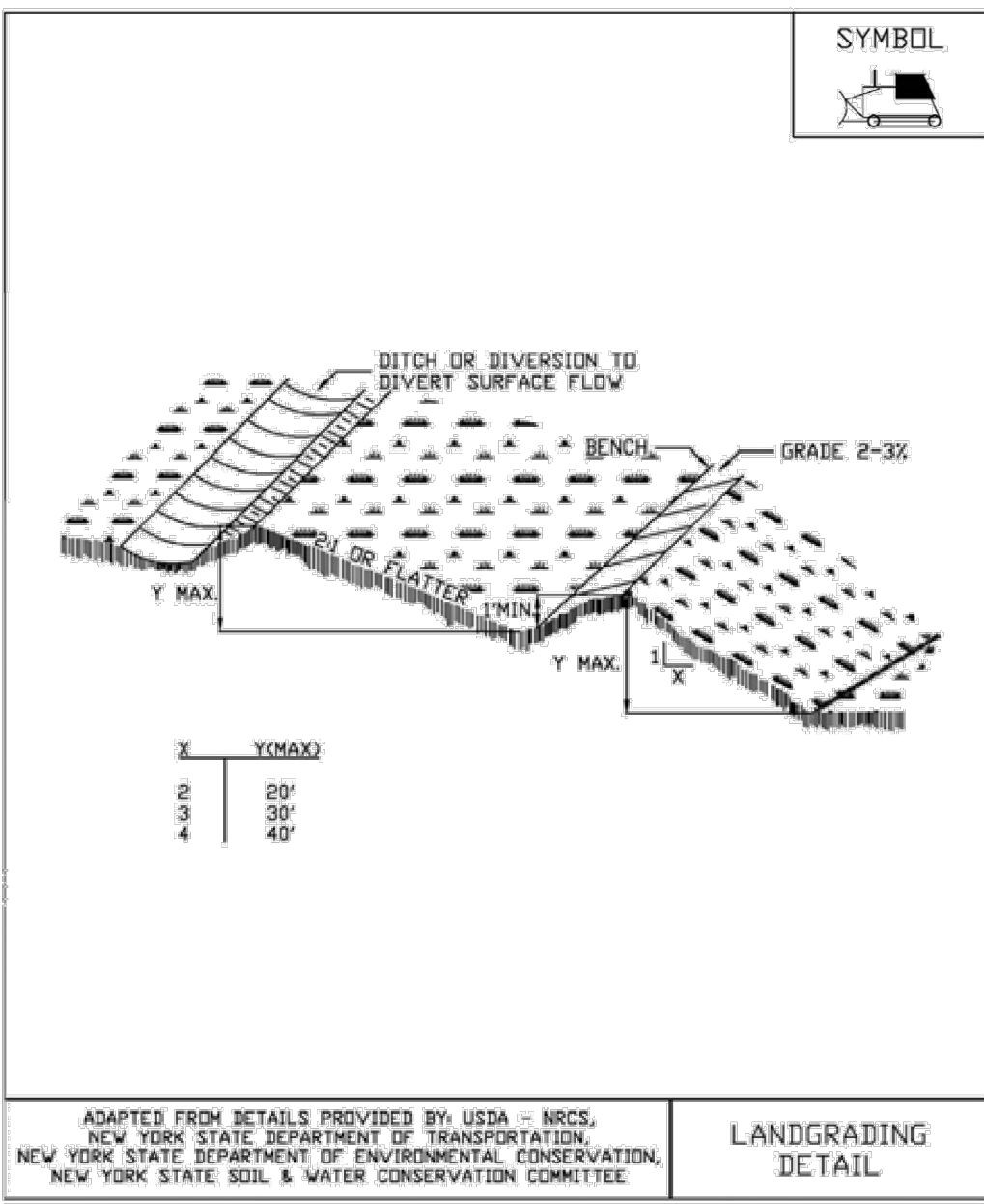


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New York State Standards and Specifications
For Erosion and Sediment Control

Figure 4.10
Landgrading

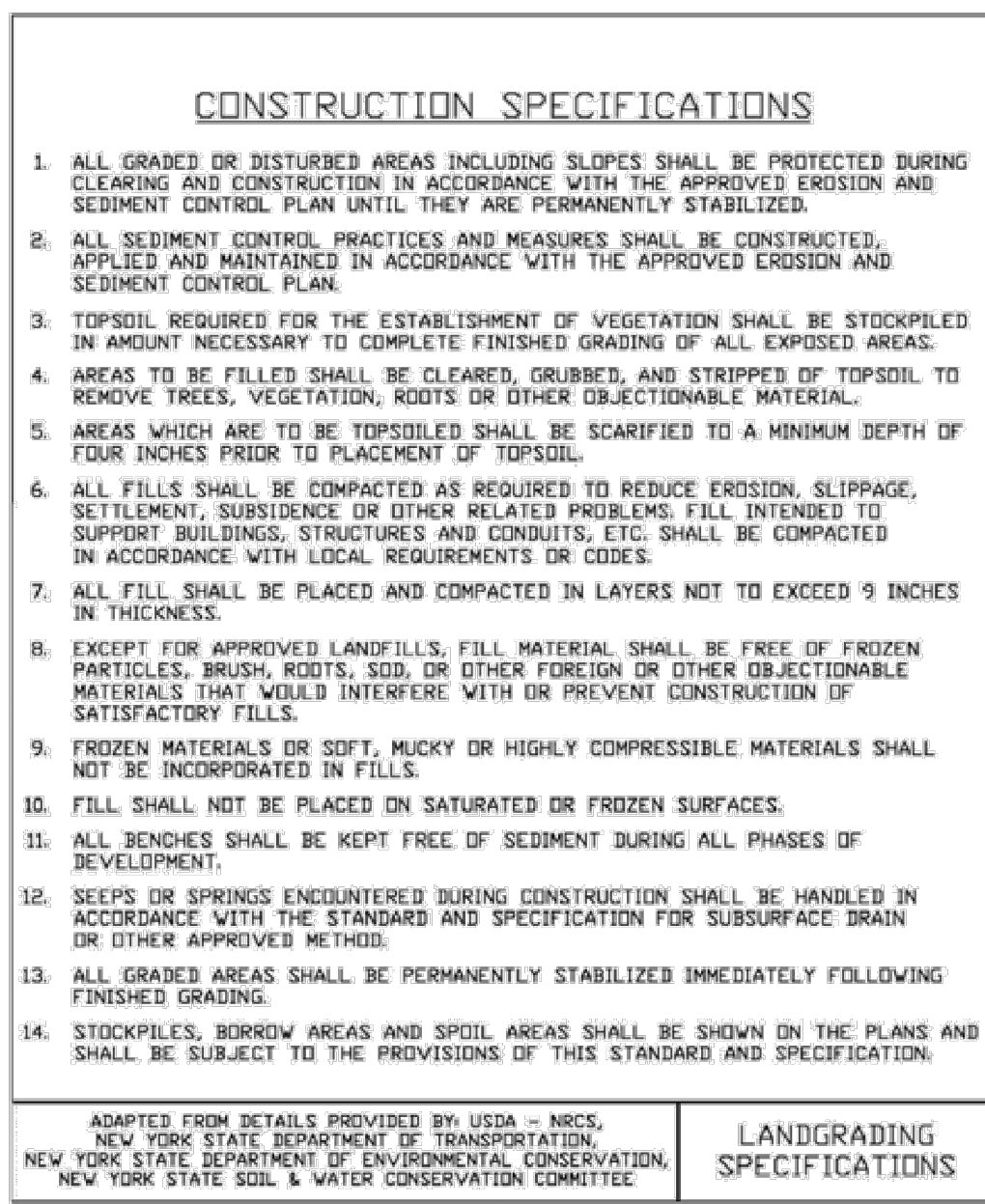


New York State Standards and Specifications
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Figure 4.11
Landgrading - Construction Specifications



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New York State Standards and Specifications
For Erosion and Sediment Control

Figure 4.18
Surface Roughening

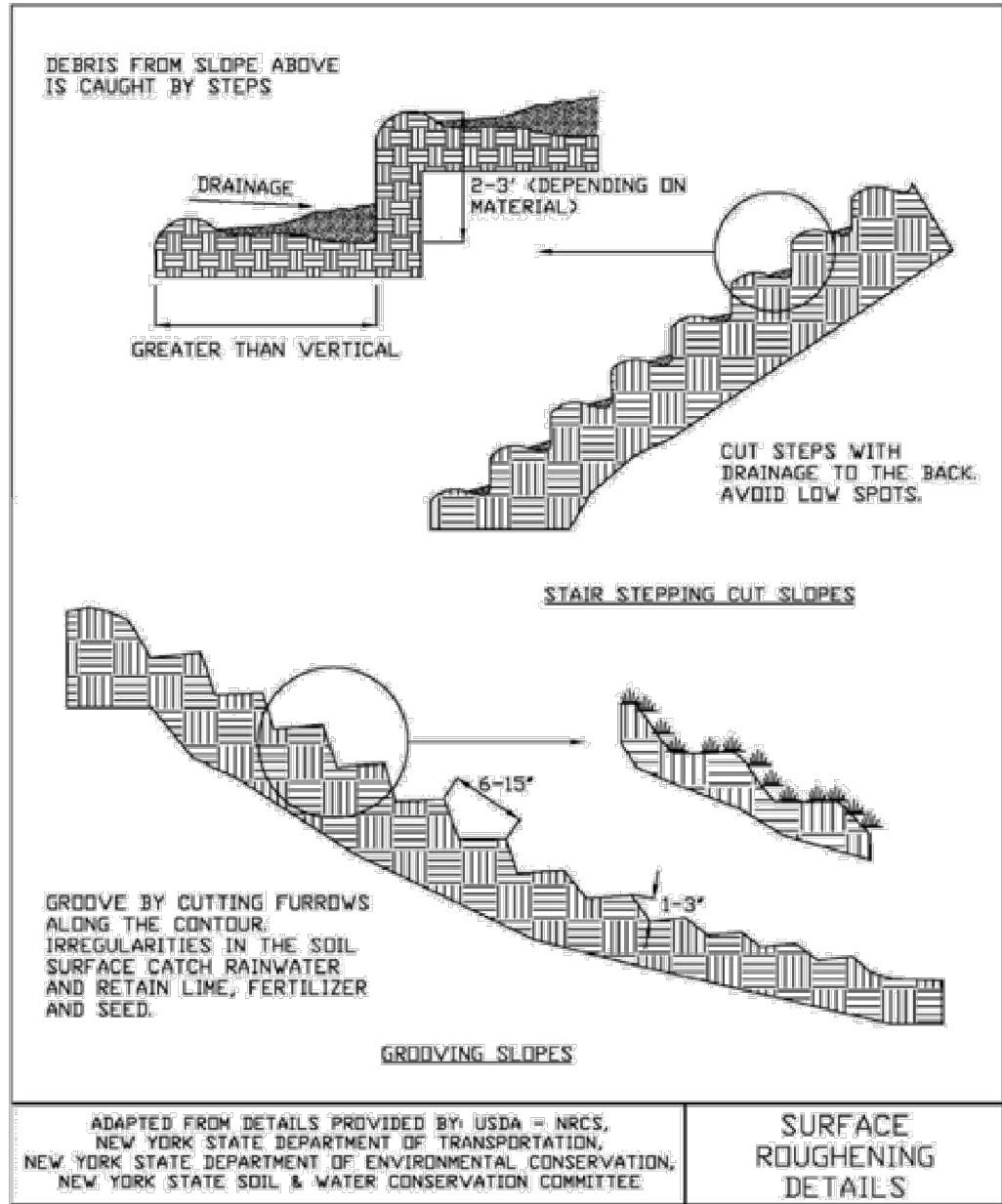


Figure 5.7
Rock Dam

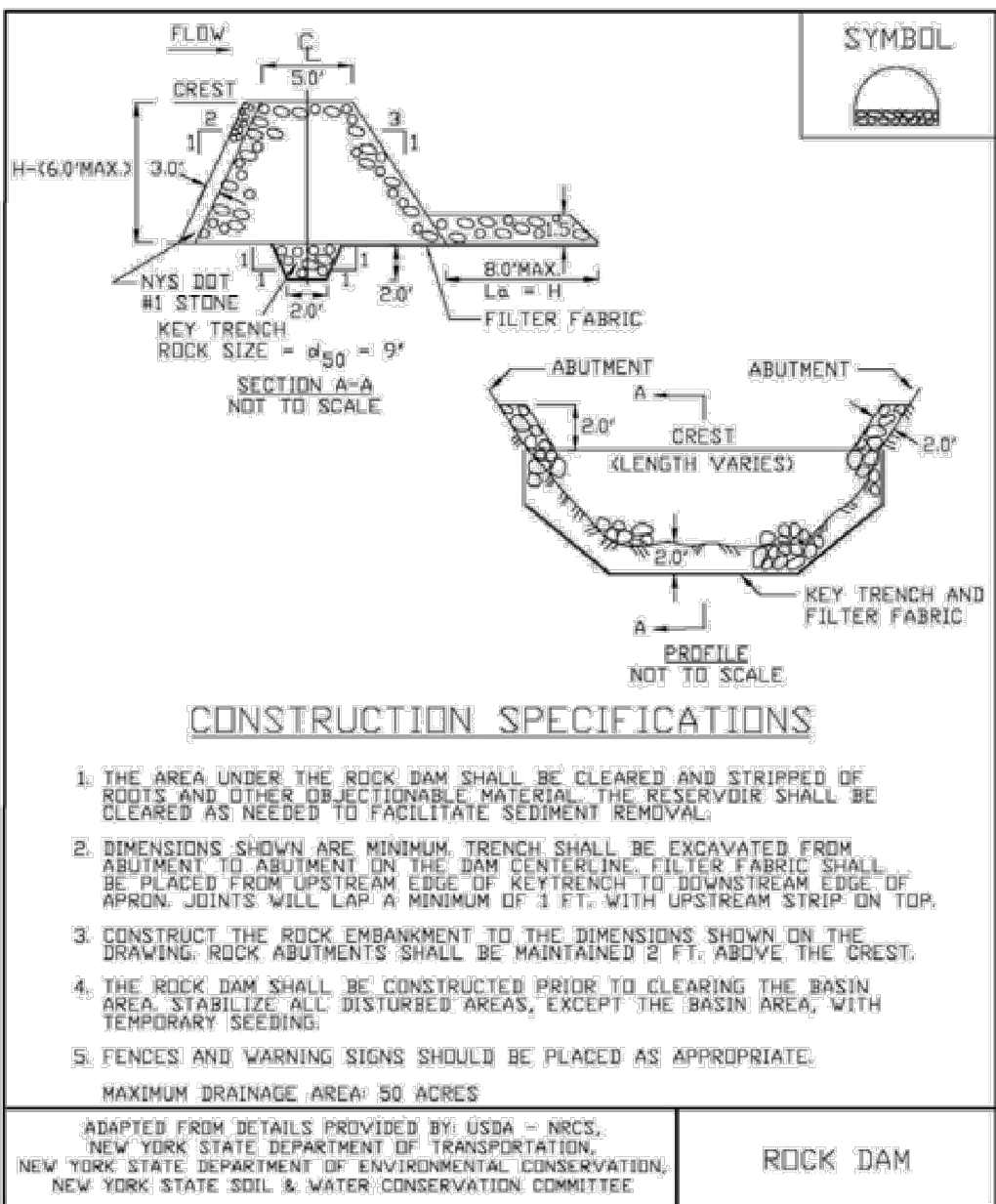


Figure 5.2
Compost Filter Sock

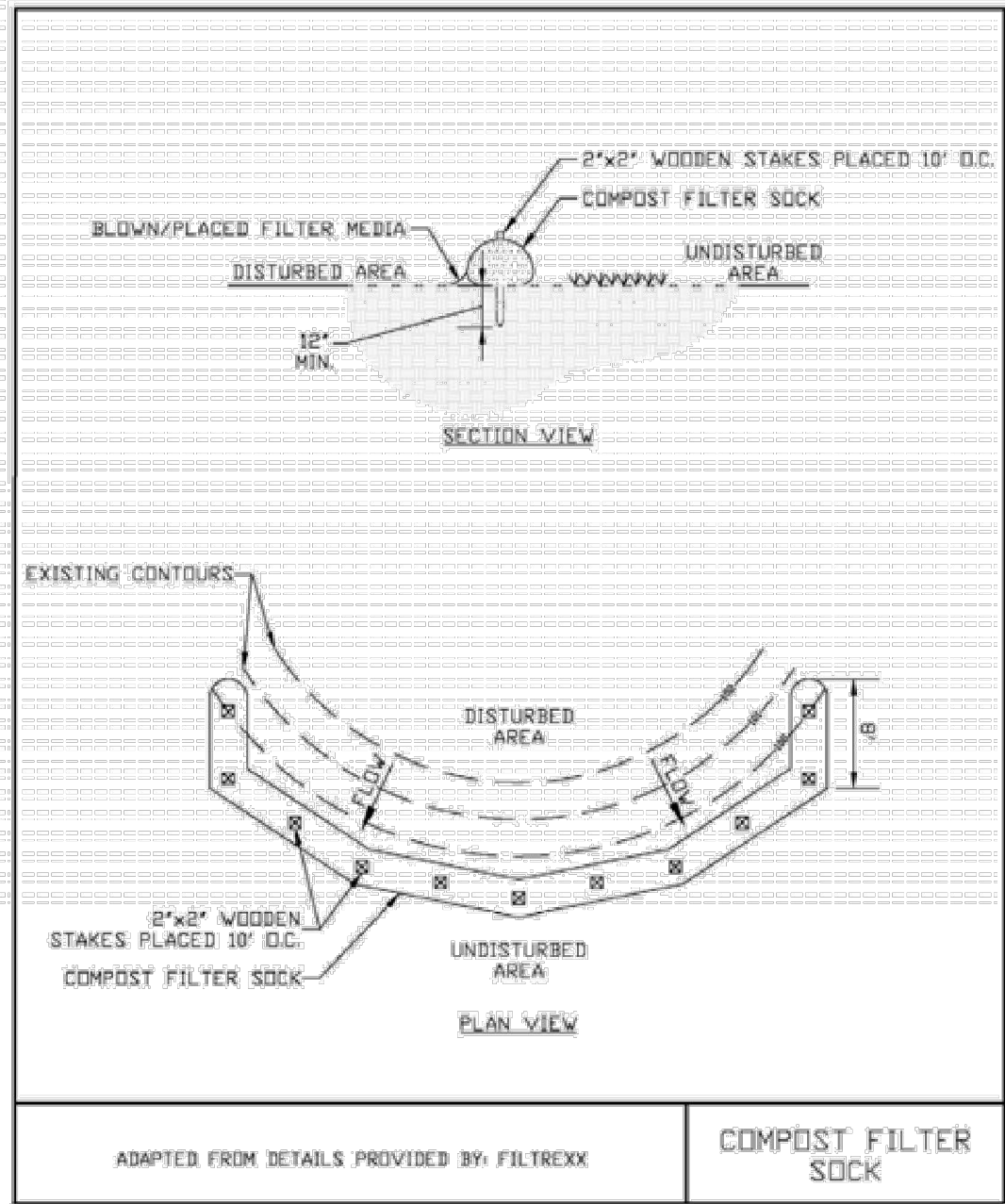


Figure 5.30
Reinforced Silt Fence

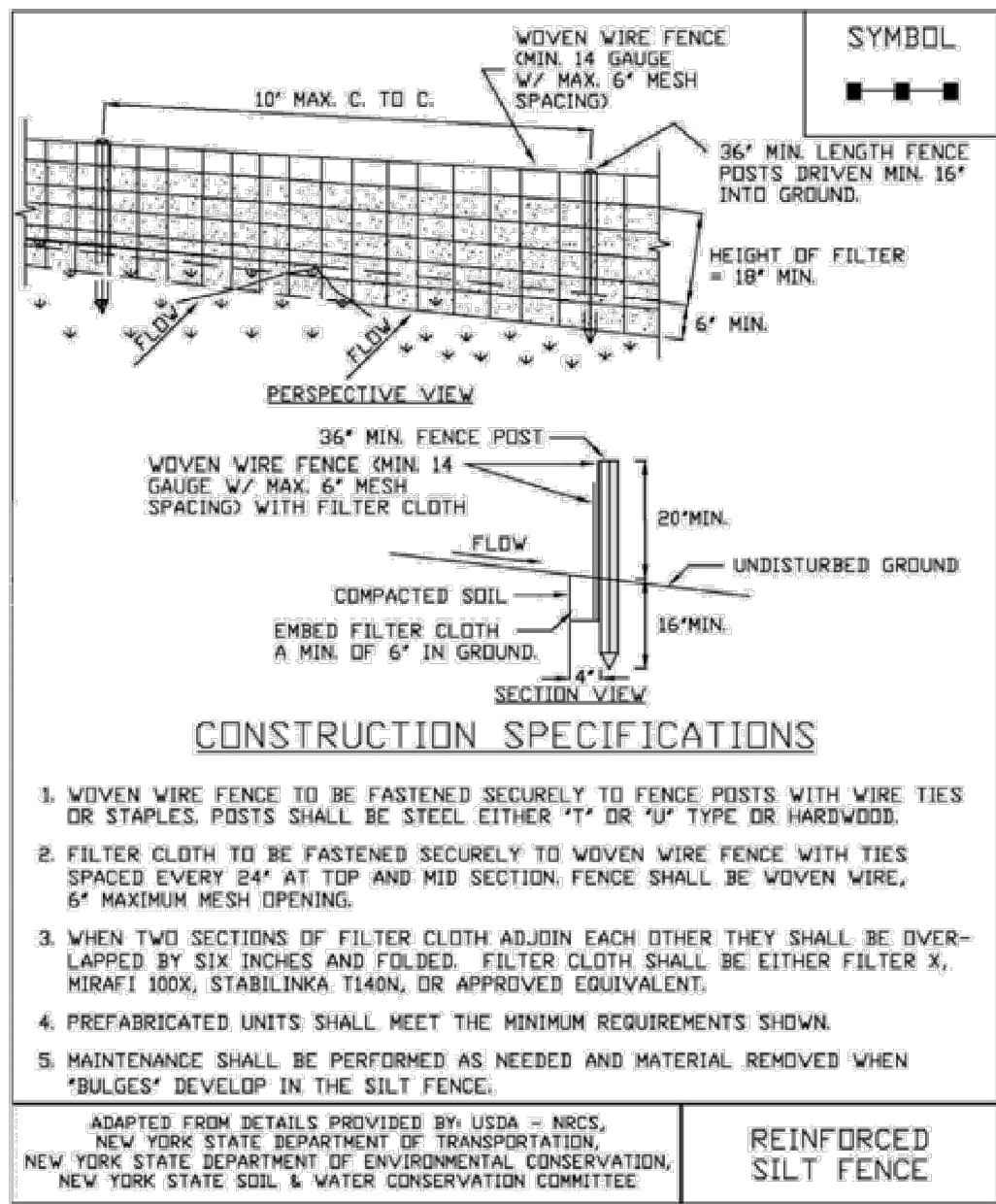
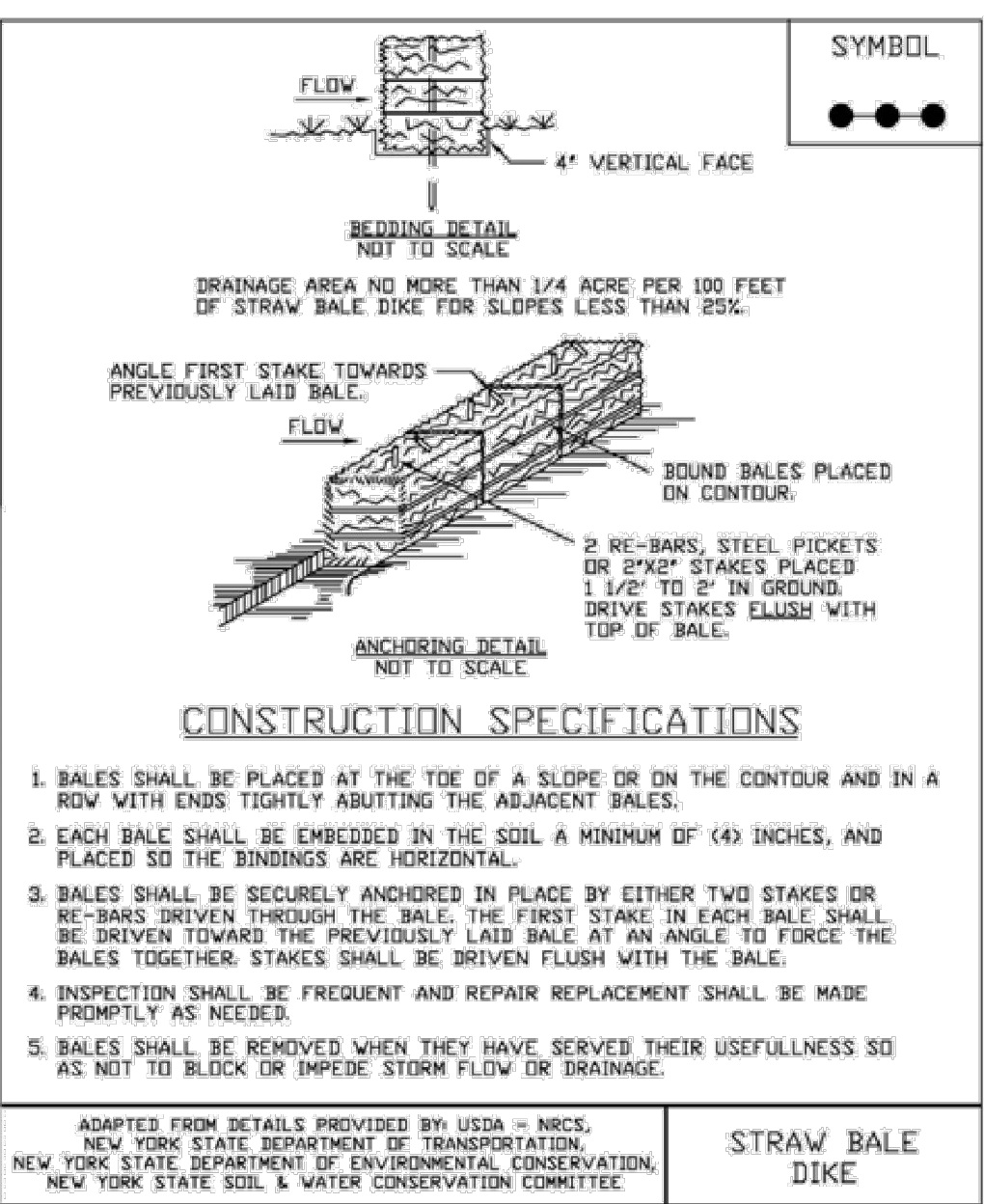


Figure 5.34
Straw Bale Dike



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ROAD DESIGN PARAMETERS

- 1. THE ROAD HAS BEEN DESIGNED TO ACCOMMODATE LOADS DURING CONSTRUCTION AND LIGHT DUTY TRUCKS FOR LOW VOLUME USE IN NORMAL OPERATING CONDITIONS. THE ROAD DESIGN SPECIFIED IS NOT INTENDED FOR ALL WEATHER USE FOR HEAVY DUTY, HIGH VOLUME, CONSTRUCTION LOADS.
- 2. ROAD MAINTENANCE CAN BE EXPECTED DURING CONSTRUCTION AND OVER THE LIFE OF THE PERMANENT FACILITY.
- 3. ROAD SECTION AND SPECIFICATION SHOWN ON THE PLANS WERE PREPARED BY WESTWOOD PROFESSIONAL SERVICES BASED ON GEOTECHNICAL RECOMMENDATIONS FROM TERRACON.

PRODUCTS

- 1. ACCESS ROAD AGGREGATE SHALL CONSIST OF CRUSHED AGGREGATE BASE MEETING NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION (DATE: MAY 1, 2008) PROVIDED IN TABLE 1, OR AN APPROVED EQUAL CULVERTS: SEE PLAN FOR DRAINAGE CULVERT LOCATIONS. ACCESS ROAD CULVERTS SHALL MEET THE MINIMUM SPECIFICATIONS SET FORTH BY THE NEW YORK ARTICLE 10 REQUIREMENTS AND/OR SCHUYLER COUNTY. ALL CULVERTS SHALL BE HELICAL CORRUGATED 12 GAUGE OR APPROVED EQUAL AND MANUFACTURED OF CORRUGATED METAL PIPE.
- 3. GEOTEXTILE FABRIC SHALL BE MIRAFI HP270 OR APPROVED EQUAL.
- 4. EXCAVATED SOILS THROUGHOUT PROJECT SHALL BE UTILIZED AS FILL. SOILS SHALL BE CLEAN OF DEBRIS AND ORGANIC MATERIAL.

EXECUTION

- 1. SITE PREPARATION
 - A. THE CONTRACTOR SHALL BE REQUIRED TO CLEAR AND GRUB AREAS DESIGNATED ON THE PLANS. FOR TREE REMOVAL REFER TO THE TREE CLEARING GENERAL NOTES AND PLANS. TREES AND BRUSH LOCATED OUTSIDE OF THE PROJECT LIMITS OF DISTURBANCE SHALL NOT BE DISTURBED. THE CONTRACTOR MUST LIMIT GRUBBING AND GRADING AS MUCH AS PRACTICABLE TO MAINTAIN THE EXISTING VEGETATION AND NATURAL GRADE IN ACCORDANCE WITH THE STATE PERMIT.
 - B. AREAS THAT ARE NOT TO BE CLEARED AND GRUBBED SHALL HAVE ANY EXISTING VEGETATION MOWED TO A MINIMUM HEIGHT OF 3 INCHES.
 - C. THE CONTRACTOR SHALL PRESERVE OTHER EXISTING VEGETATION TO THE MAXIMUM EXTENT PRACTICABLE. ANY VEGETATION THAT IS REMOVED SHALL ONLY BE ALLOWED WITHIN THE PROJECT BOUNDARY. THE CONTRACTOR IS TO REMOVE ONLY THAT VEGETATION WHICH SHALL BE DESIGNATED BY THE OWNERS REPRESENTATIVE FOR REMOVAL, AND SHALL EXERCISE EXTREME CARE AROUND EXISTING VEGETATION TO BE SAVED. CONSTRUCTION FENCING MAY BE INSTALLED TO PROTECT AREAS THAT ARE NOT TO BE DISTURBED.
 - D. NO BURNING OF DEBRIS IS PERMITTED.
- 2. FILL MATERIALS AND PLACEMENT
 - A. ALL FILL MATERIALS SHALL BE INORGANIC SOILS FREE OF VEGETATION, DEBRIS, AND FRAGMENTS LARGER THAN THREE (3) INCHES IN SIZE. PEA GRAVEL OR OTHER SIMILAR NON-CEMENTITIOUS, POORLY-GRADED MATERIALS SHALL NOT BE USED AS FILL OR BACKFILL WITHOUT THE PRIOR APPROVAL OF THE GEOTECHNICAL ENGINEER.
 - B. CLEAN ON-SITE SOILS OR APPROVED IMPORTED MATERIAL MAY BE USED AS FILL MATERIAL FOR GENERAL SITE GRADING. THIS MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 8".
 - C. ANY IMPORTED SOILS MUST HAVE EXPANSION VALUES IN THE "VERY LOW" RANGE AND MEET THE GRADATION PROVIDED IN TABLE 4.

ACCESS ROAD CONSTRUCTION AND SITE GRADING

- 1. TOPSOIL MANAGEMENT
 - A. TOPSOIL SHALL BE STRIPPED FROM ALL ROADWAY AREAS A MINIMUM OF 10". TOPSOIL SHALL NOT BE STRIPPED OUTSIDE OF THESE DESIGNATED AREAS.
 - B. STRIPPED MATERIALS CONSISTING OF VEGETATION AND ORGANIC MATERIALS SHALL BE STOCKPILED ON THE SITE. STOCKPILES WITHIN THE SITE SHALL HAVE TEMPORARY EROSION AND SEDIMENT CONTROL APPLIED IN ACCORDANCE WITH THE PROJECT SWPPP OR USED TO REVEGETATE LANDSCAPED AREAS OR EXPOSED SLOPES AFTER COMPLETION OF GRADING OPERATIONS. IF IT IS NECESSARY TO DISPOSE OF ORGANIC MATERIALS ON-SITE THEY SHALL BE PLACED IN NON-STRUCTURAL AREAS.
- 2. INTERNAL ROAD EMBANKMENT
 - A. EMBANKMENT CONSTRUCTION SHALL CONSIST OF THE PLACING OF SUITABLE FILL MATERIAL, AFTER TOPSOIL STRIPPING, ABOVE THE EXISTING GRADE AS INDICATED ON CIVIL PLANS. GENERALLY, THE INTERNAL ROAD EMBANKMENT SHALL HAVE COMPACTED SUPPORT SLOPES OF THREE FEET HORIZONTAL TO ONE FOOT VERTICAL.
 - B. THE MATERIAL FOR EMBANKMENT CONSTRUCTION SHALL BE GENERATED ON SITE BY THE CONTRACTOR FROM THE IDENTIFIED BORROW AREA. THIS MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED 8".
 - C. ALL SLOPES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GRADING SHOWN ON THE PLANS.
 - D. EXPOSED SURFACES SHALL BE FREE OF MOUNDS AND DEPRESSIONS WHICH COULD PREVENT UNIFORM COMPACTION. SEE TABLE 2 FOR TESTING REQUIREMENTS AND TABLE 3 FOR COMPACTION REQUIREMENTS.
- 3. SITE GRADING
 - A. SUBSEQUENT TO THE SURFACE CLEARING, GRUBBING AND TOPSOIL REMOVAL IN AREAS SHOWN ON THE PLANS, THE SUBSURFACE SOILS SHALL HAVE THE GRADES AND ELEVATIONS MODIFIED AS SHOWN ON THE PLANS. THE PROPOSED CONTOURS AND ELEVATIONS SHOWN ON THE PLANS ARE TO FINISHED GRADE.
 - B. SMALL SURFACE IRREGULARITIES WILL NEED TO BE BLADED SMOOTH FOR BACK INSTALLATION. SITE GRADING SHOWN ON PLAN SHEETS IS FOR LARGE TOPOGRAPHIC FEATURES AND MAY NOT FULLY ENCOMPASS ALL UNDULATIONS OF THE GROUND SURFACE. THE CONTRACTOR MUST LIMIT GRUBBING AND GRADING AS MUCH AS PRACTICABLE TO MAINTAIN THE EXISTING VEGETATION AND NATURAL GRADE IN ACCORDANCE WITH THE STATE PERMIT.
 - C. SUBSURFACE SOILS SHALL BE MOISTURE CONDITIONED AND COMPACTED TO THE SPECIFICATIONS OF TABLE 3.
 - D. ANY CUT MATERIAL THAT CANNOT BE USED FOR STRUCTURAL BACKFILL THROUGHOUT THE PROJECT SHALL BE USED IN FILL AREAS IDENTIFIED ON THE PLANS. THE FILL AREA SHALL HAVE TOPSOIL REMOVED AND MANAGED AS IDENTIFIED ABOVE IN "TOPSOIL MANAGEMENT".
 - E. CLEAN, ORGANIC FREE, ON-SITE SOILS OR APPROVED IMPORTED MATERIAL MAY BE USED AS SUBGRADE MATERIAL FOR GENERAL SITE GRADING.
- 3. SUBGRADE PREPARATION
 - A. SUBSEQUENT TO THE SURFACE CLEARING, GRUBBING, TOPSOIL REMOVAL AND EMBANKMENT CONSTRUCTION, THE EXPOSED SUBGRADE SOILS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF TWELVE (12) INCHES, MOISTURE CONDITIONED AND COMPACTED TO THE SPECIFICATIONS OF TABLE 3. THE COMPACTED EXPOSED SUBGRADES SHALL BE PROOF ROLLED AND OBSERVED BY A GEOTECHNICAL ENGINEER TO DETERMINE IF SOFT SOILS EXIST. IF SOFT SOILS EXIST THEY SHALL BE SCARIFIED AND ALLOWED TO DRY, RECOMPACTED AND TESTED AGAIN, IF THEY CONTINUE TO REMAIN SOFT, FOLLOWING SCARIFICATION, DRYING AND RECOMPACTION EFFORTS ADDITIONAL AGGREGATE MAY BE ADDED FOR STABILITY.
 - B. ROAD SUBGRADE AND COMPACTION SHALL EXTEND HORIZONTALLY AT LEAST TWO FEET BEYOND THE OUTSIDE EDGE OF THE DRIVABLE SURFACE.
 - C. THE MOISTURE CONTENT AND COMPACTION OF ROAD SUBGRADE SOILS SHALL BE MAINTAINED UNTIL PAVEMENT CONSTRUCTION.
 - D. CLEAN, ORGANIC FREE, ON-SITE SOILS OR APPROVED IMPORTED MATERIAL MAY BE USED AS SUBGRADE MATERIAL FOR GENERAL SITE GRADING AND ROADWAY AREAS.
- 4. AGGREGATE PLACEMENT
 - A. ACCESS ROADS - SUBSEQUENT TO THE SUBGRADE PREPARATION THE ROAD AGGREGATE BASE SHALL BE PLACED AND COMPACTED TO THE SPECIFICATIONS IDENTIFIED IN TABLE 3.
- 5. TOPSOIL REDISTRIBUTION AND STABILIZATION
 - A. FOLLOWING THE PLACEMENT OF THE AGGREGATE BASE AND APPROVAL OF THE TESTING, TOPSOIL SHALL BE DISTRIBUTED OVER THE EXPOSED DISTURBED AREAS, EXCLUDING THE AGGREGATE DRIVING SURFACE.
 - B. FOLLOWING SITE GRADING OPERATIONS, TOPSOIL CAN BE USED TO BRING THE GROUND ELEVATIONS UP TO THE DESIGNED FINISHED GRADE ELEVATIONS.
 - C. THE TOPSOIL SHALL HAVE TEMPORARY AND PERMANENT STABILIZATION MEASURES ESTABLISHED IN ACCORDANCE WITH THE PROJECT SWPPP.

TEMPORARY LAYDOWN/STORAGE YARD

- 1. PREPARATION
 - A. THE LAYDOWN/STORAGE YARD SHALL CONSIST OF COMPACTED NATIVE MATERIAL OVERLAI D WITH A GEOTEXTILE FABRIC AND AGGREGATE MATERIAL.
 - B. THE COMPACTED NATIVE MATERIAL SHALL BE MOISTURE CONDITIONED AND COMPACTED TO THE SPECIFICATIONS OF TABLE 3 (NON-STRUCTURAL AREA).
 - C. GEOTEXTILE FABRIC SHALL BE PLACED ON TOP OF COMPACTED NATIVE MATERIAL AND THEN AGGREGATE PLACED AND COMPACTED.
 - D. FOLLOWING CONSTRUCTION AND REMOVAL OF PROJECT INVENTORY THE COMPACTED NATIVE MATERIAL SHALL BE DECOMPACTED AND PERMANENTLY STABILIZED IN ACCORDANCE WITH THE PROJECT SWPPP SPECIFICATIONS.

EXECUTION (CONTINUED)

ELECTRICAL TRENCHES

- 1. TRENCH'S SHALL BE EXCAVATED TO THE DEPTH IDENTIFIED IN THE ELECTRICAL DRAWINGS/DETAILS.
- 2. TRENCH BACKFILL SHALL CONSIST OF APPROVED, ONSITE OR IMPORT SOILS. SOILS SHALL BE FREE OF VEGETATION, DEBRIS, AND FRAGMENTS LARGER THAN 3 INCHES.
- 3. INITIAL BACKFILL LIFT SHALL BE 18" LOOSE THICKNESS, ADDITIONAL BACKFILL LIFTS SHALL NOT EXCEED 8 INCHES OF LOOSE MATERIAL. IF TESTING OF THE INITIAL LIFT DOES NOT PROVIDE THE REQUIRED DENSITY THE INITIAL BACKFILL LIFT WILL BE REDUCED TO A 8" LOOSE THICKNESS.
- 4. BACKFILL SHALL BE COMPACTED TO THE SPECIFICATIONS IDENTIFIED IN TABLE 3.
- 5. TRENCH BACKFILL SHALL BE MECHANICALLY COMPACTED.

*TABLE 1: NYSDOT TYPE 2 SUBBASE COARSE AGGREGATE	
SIEVE SIZE	PERCENT PASSING
2"	100
1/4"	25-60
#40	5-40
#200	0-10

*PRELIMINARY: SUBJECT TO CHANGE WITH GEOTECH

*TABLE 2: TESTING SCHEDULE SUMMARY		
LOCATION	TEST	FREQUENCY
STRUCTURAL FILL	GRAIN SIZE ANALYSIS, MOISTURE CONTENT, ATTERBERG LIMITS ON FINES CONTENT, AND PROCTOR	1 PER MAJOR SOIL TYPE
COMPACTED SUBGRADE	MOISTURE DENSITY TEST (NUCLEAR DENSITY) PROOF ROLL	1 EVERY 1,320 LF OF ROAD ENTIRE LENGTH
AGGREGATE BASE	MOISTURE DENSITY TEST (NUCLEAR DENSITY) PROOF ROLL SIEVE ANALYSIS	1 EVERY 1,320 LF OF ROAD ENTIRE LENGTH 1 PER 2000 CY
MISCELLANEOUS FILL	MOISTURE DENSITY TEST (NUCLEAR DENSITY)	1 PER 2 FOOT VERTICAL LIFTS AND/OR 500 CY OF MATERIAL
TRENCH BACKFILL	MOISTURE DENSITY TEST (NUCLEAR DENSITY)	SEE REQUIREMENTS ON THIS SHEET

*PRELIMINARY: SUBJECT TO CHANGE WITH GEOTECH

*TABLE 3: COMPACTION AND MOISTURE CONTENT REQUIREMENTS			
MATERIAL TYPE AND LOCATION	MINIMUM COMPACTION REQUIREMENT (%)	RANGE OF MOISTURE CONTENTS FOR COMPACTION (% OVER OPTIMUM)	
		MINIMUM	MAXIMUM
AGGREGATE BASE	95	-3%	+3%
STRUCTURAL FILL	95	-3%	+3%
SUBGRADE (BENEATH EQUIPMENT PADS, NATIVE MATERIAL)	95	-3%	+3%
SUBGRADE (BENEATH EQUIPMENT PADS, IMPORTED NON-EXPANSIVE SOILS)	95	-3%	+3%
TRENCH BACKFILL (NON-STRUCTURAL AREAS)	90	-3%	+3%
TRENCH BACKFILL (STRUCTURAL AREAS)	95	-3%	+3%
NON-STRUCTURAL FILL	90	-3%	+3%

*PRELIMINARY: SUBJECT TO CHANGE WITH GEOTECH

*TABLE 4: IMPORTED STRUCTURAL FILL

SIEVE SIZE	PERCENT PASSING
3"	100
#200	10-100

*PRELIMINARY: SUBJECT TO CHANGE WITH GEOTECH
**IMPORTED STRUCTURAL FILL SHOULD CONTAIN NO PARTICLES LARGER THAN 3 INCHES AND LESS THAN 10 PERCENT, BY WEIGHT, OF MATERIAL FINER THAN A NO. 200 MESH SIEVE.
***THE IMPORTED MATERIALS SHALL BE FREE OF RECYCLED CONCRETE, ASPHALT, BRICKS, GLASS AND PYRITIC SHALE ROCK.
****ADDITIONAL LABORATORY TESTING WILL BE REQUIRED TO DETERMINE IF THE ON-SITE SOILS ARE SUITABLE FOR USE AS STRUCTURAL FILL ON SITE, HOWEVER IT IS NOT EXPECTED TO MEET THE CRITERIA FOR STRUCTURAL FILL.

TESTING REQUIREMENTS:

DEFINITIONS

- 1. THE CONTRACTOR SHALL SUBMIT MATERIAL TESTING REPORTS AS SHOWN ON THE DRAWINGS AS WELL AS GEOTEXTILE MATERIAL TO BE USED DURING CONSTRUCTION.
- 2. TESTING SHALL BE PERFORMED BY A DESIGNATED INDEPENDENT TESTING AGENCY.
- 3. SUBMIT TESTING AND INSPECTION RECORDS SPECIFIED TO THE CIVIL ENGINEER OF RECORD FOR REVIEW.
 - A. THE ENGINEER WILL REVIEW THE TESTING AND INSPECTION RECORDS TO CHECK CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS. THE ENGINEER'S REVIEW DOES NOT RELIEVE THE CONSTRUCTION CONTRACTOR FROM THE RESPONSIBILITY FOR CORRECTING DEFECTIVE WORK.
- 3. PROOF ROLLING SHALL BE PERFORMED IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER OR QUALIFIED GEOTECHNICAL REPRESENTATIVE USING A FULLY LOADED TANDEM AXLE DUMP TRUCK WITH A MINIMUM GROSS WEIGHT OF 25 TONS OR A FULLY LOADED WATER TRUCK WITH AN EQUIVALENT AXLE LOADING. PROOF-ROLLING ACCEPTANCE STANDARDS INCLUDE NO RUTTING GREATER THAN 1.5 INCHES, AND NO "PUMPING" OF THE SOIL BEHIND THE LOADED TRUCK.
- 4. SIEVE ANALYSIS SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM C136
- 5. PROCTORS SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D698
- 6. ATTERBERG LIMITS SHALL BE DETERMINED IN ACCORDANCE WITH ASTM D4318
- 7. MOISTURE DENSITY (NUCLEAR DENSITY) TESTING SHALL BE DONE IN ACCORDANCE WITH ASTM D6938

REQUIREMENTS

- 1. COMPACTION:
 - A. REFER TO TABLE 3 FOR COMPACTION REQUIREMENTS AND ACCEPTABLE MOISTURE CONTENTS.
- 2. IMPORT FILL MATERIAL:
 - A. IMPORT SOILS USED AS FILL MATERIAL SHALL BE TESTED FOR GRAIN SIZE ANALYSIS, MOISTURE CONTENT, ATTERBERG LIMITS ON FINES CONTENT, PROCTOR TESTS, R-VALUES, SAND EQUIVALENTS, DURABILITY INDEX, LIQUID LIMIT, PLASTICITY INDEX, AND MAXIMUM EXPANSION INDEX.
- 3. COMPACTED SUBGRADE:
 - A. PROVIDE 1 MOISTURE DENSITY COMPACTION TEST FOR EVERY 1,320 L.F. OF ROAD LENGTH
 - B. THE ENTIRE INTERNAL/ACCESS ROAD SUBGRADE SHALL BE PROOF-ROLLED PRIOR TO THE PLACEMENT OF THE AGGREGATE BASE TO IDENTIFY AREAS OF UNSTABLE SUBGRADE. IF UNSTABLE SUBGRADE IS ENCOUNTERED SCARIFY, MOISTURE CONDITION, AND RECOMPACT SOILS TO ACHIEVE COMPACTION.
- 4. AGGREGATE BASE:
 - A. PROVIDE 1 MOISTURE DENSITY COMPACTION TEST FOR EVERY 1,320 L.F. OF ROAD LENGTH.
 - B. AGGREGATE BASE SHALL BE PROOF-ROLLED OVER THE ENTIRE LENGTH. IF PROOF ROLLING DETERMINES THAT THE ROAD IS UNSTABLE, ADDITIONAL AGGREGATE SHALL BE ADDED UNTIL THE UNSTABLE SECTION IS ABLE TO PASS A PROOF ROLL FOR ALL ROAD CLASSIFICATIONS.
 - C. PROVIDE 1 SIEVE ANALYSIS PER 2000 CY OF ROAD AGGREGATE BASE PLACED.
- 5. MISCELLANEOUS FILL:
 - A. PROVIDE MOISTURE DENSITY COMPACTION TESTS ONCE PER 2 FOOT VERTICAL LIFTS AND/OR 500 C.Y. OF COMPACTED FILL MATERIAL.
- 6. TRENCH BACKFILL:
 - A. PROVIDE MOISTURE DENSITY COMPACTION TESTS EVERY 50LF OF TRENCH FOR THE FIRST 200LF TRENCHING ACTIVITIES TO CONFIRM METHODOLOGY. AFTER APPROVAL TESTING CAN BE INCREASED TO EVERY 500LF. ALTERNATE TEST DEPTHS OF 18" AND AT GRADE.

TRAFFIC CONTROL:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGGERS AND LIGHTS TO CONTROL THE MOVEMENT OF TRAFFIC WHERE NECESSARY. PLACEMENT OF THESE DEVICES SHALL BE APPROVED BY THE CITY/COUNTY AND ENGINEER PRIOR TO PLACEMENT. TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST VERSION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

GENERAL NOTES:

- 1. CONSTRUCTION PLANS ARE BASED OFF THE NAD 83 NEW YORK STATE PLANES, EAST ZONE, US FOOT COORDINATE SYSTEM.
- 2. PROPOSED SOLAR LAYOUT FOR THIS PROJECT PROVIDED BY NEXtera ENERGY.
- 3. THE ALTA SURVEY AND EXISTING PLANIMETRIC DATA WAS PROVIDED BY NEXtera ENERGY.
- 4. ALL DIMENSIONS ARE TO PROJECT BOUNDARY, EDGE OF GRAVEL, FENCE LINES AND SOLAR PANELS UNLESS OTHERWISE NOTED.
- 5. THE GROUND SURFACE CONTOURS (AT ONE-FOOT VERTICAL INTERVALS) AND ELEVATIONS ARE BASED ON A LIDAR DATA FROM NEXtera ENERGY.
- 6. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE OWNER SHALL BE NOTIFIED AND ARE NOT TO BE REMOVED WITHOUT PERMISSION FROM THE OWNER. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- 7. THE CONTRACTOR SHALL NOTIFY DIG-SAFE (811 ONE CALL) AT LEAST 48 HOURS BEFORE EXCAVATION ACTIVITIES COMMENCE.
- 8. ELECTRONIC FILES ARE AVAILABLE FOR CONSTRUCTION OPERATIONS.

EROSION AND SEDIMENT CONTROL / STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

- 1. PROJECT SWPPP PREPARED BY TRC. PLEASE REFER TO SWPPP PLAN FOR PROJECT SPECIFICS
- 2. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES AS PLANNED AND SPECIFIED FOLLOWING BEST MANAGEMENT PRACTICES AS OUTLINED BY THE NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) AND BEING IN CONFORMANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL STORMWATER PERMIT. SEE THE PROJECT SITE PLANS AND ASSOCIATED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR EROSION CONTROL AND RESTORATION LOCATIONS AND SPECIFICATIONS. UNLESS OTHERWISE NOTED OR MODIFIED IN THE SWPPP/HEREIN, ALL SECTIONS OF THE GENERAL CONDITIONS SHALL APPLY.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE SWPPP'S AVAILABILITY.
- 4. ALL FIBER ROLLS AND OTHER EROSION CONTROL FEATURES SHALL BE IN-PLACE PRIOR TO ANY EXCAVATION/CONSTRUCTION AND SHALL BE MAINTAINED UNTIL VIABLE TURF OR GROUND COVER HAS BEEN ESTABLISHED AS DIRECTED BY THE SWPPP QUALIFIED INSPECTOR.
- 5. ALL DRAINAGE SWALES DISTURBED DURING CONSTRUCTION ACTIVITIES AND NOT COVERED BY ROAD SURFACING MATERIALS, SHALL BE STABILIZED IN ACCORDANCE WITH THE SWPPP.

HORIZONTAL DIRECTIONAL DRILLING NOTES

- 1. THE CONTRACTOR SHALL PREPARE AND IMPLEMENT AN INADVERTENT RETURN CONTINGENCY PLAN (THE PLAN) ADDRESSING THE POTENTIAL FOR RETURNS OF DRILLING FLUIDS TO THE SURFACE (I.E., FRAC-OUTS) DURING PERFORMANCE OF HORIZONTAL DIRECTIONAL DRILLING. THE PLAN SHALL DETAIL PROCEDURES FOR MONITORING DRILLING OPERATIONS AND THE MEASURES THAT WILL BE DEPLOYED IN THE EVENT OF AN INADVERTENT RETURN. THE PLAN SHALL BE PREPARED TO MEET THE CONDITIONS OF THE PROJECT PERMITS AND BE SUBMITTED FOR REVIEW AND APPROVAL BY THE OWNER PRIOR TO COMMENCEMENT OF DRILLING WORK.

UNDERGROUND COLLECTOR LINE NOTES:

- 1. 48-HOURS PRIOR TO THE PLANNED START OF EXCAVATION, THE CONTRCTOR SHALL MARK-OUT THE PLANNED WORK AREA AND NOTIFY DIG-SAFE (811) AND ANY NON-PARTICIPATING UTILITIES OF THE PLANNED WORK LOCATION.
- 2. AS-BUILT RECORDS OF THE UNDERGROUND COLLECTOR SYSTEM SHALL INCLUDE GEO-REFERENCED LOCATIONS AND ELEVATIONS OF THE TOP OF THE DUCTBANK AND CABLE SYSTEM. LOCATION AND ELEVATION SHALL BE RECORDED TO SUB-FOOT ACCURACY. AS A MINIMUM, INSTALLED LOCATION/ELEVATIONS SHALL BE RECORDED AT THE START, MIDDLE, AND END OF EACH CHANGE IN HORIZONTAL AND VERTICAL ALIGNMENT. ADDITIONAL LOCATIONS SHALL BE RECORDED SUCH THAT SPACING BETWEEN RECORDED LOCATIONS DOES NOT EXCEED 200-FEET.
- 3. EXCEPT AS REQUIRED TO TRANSITION TO DEPTH, CABLE TRENCH SHALL FOLLOW GROUND CONTOUR AT APPROXIMATELY 4'-6" BELOW GRADE.
- 4. TRANSITION STATION AND ELEVATION ARE FOR CONTRACTOR INFORMATION ONLY. STATION, GRADE, AND RADIUS MAY BE ADJUSTED IN THE FIELD WITH OWNERS APPROVAL.

Westwood

Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
Fax (952) 937-5822 Minnetonka, MN 55343
Toll Free (888) 937-5150 westwoodps.com
Westwood Surveying and Engineering, P.C.

PREPARED FOR:



700 Universe Blvd,
Juno Beach, FL 33408

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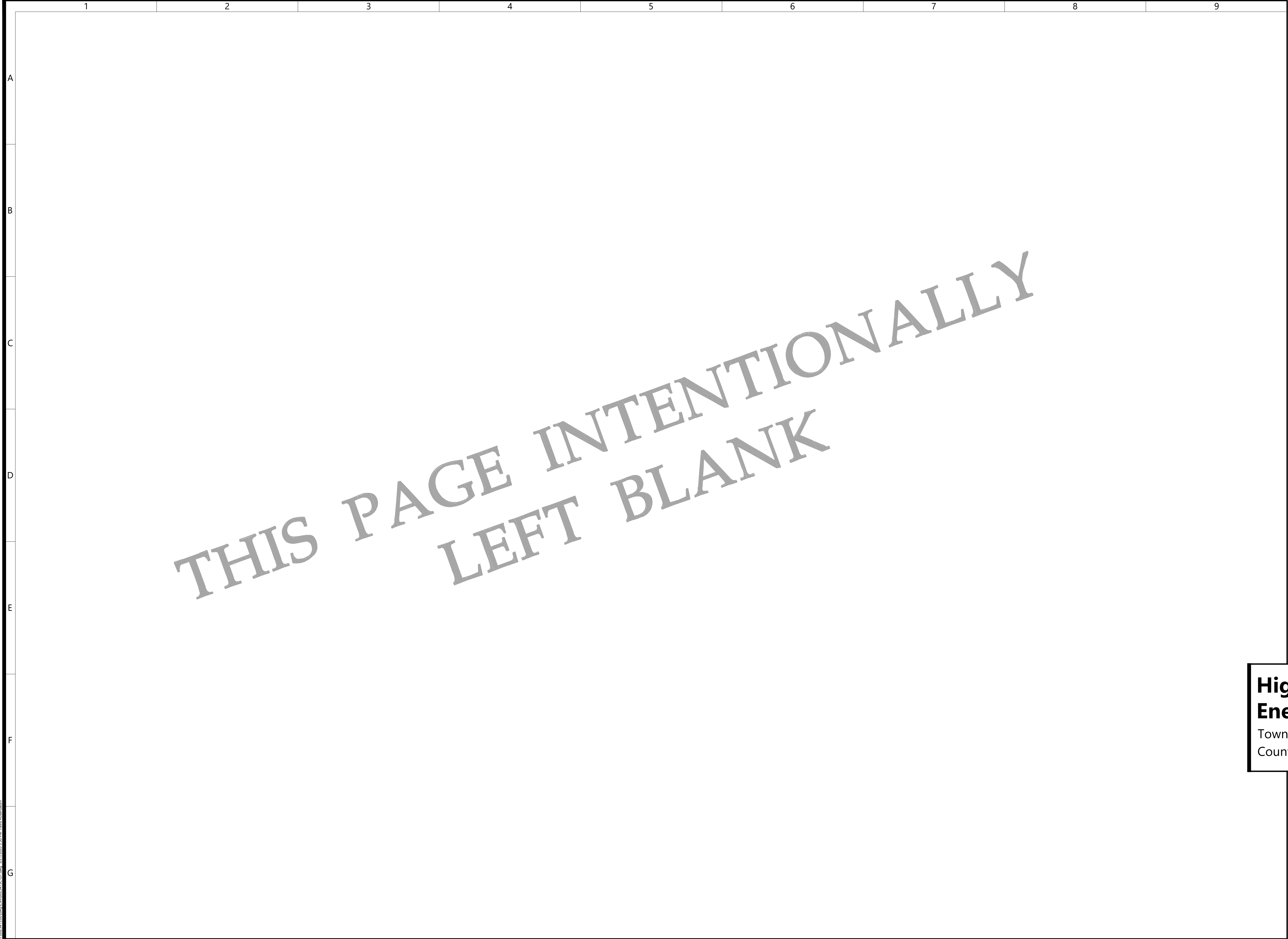
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Energy Center
Town of Florida, Montgomery
County, New York

Construction Notes

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Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
Fax (952) 937-5822 Minnetonka, MN 55343
Toll Free (888) 937-5150 westwoodps.com
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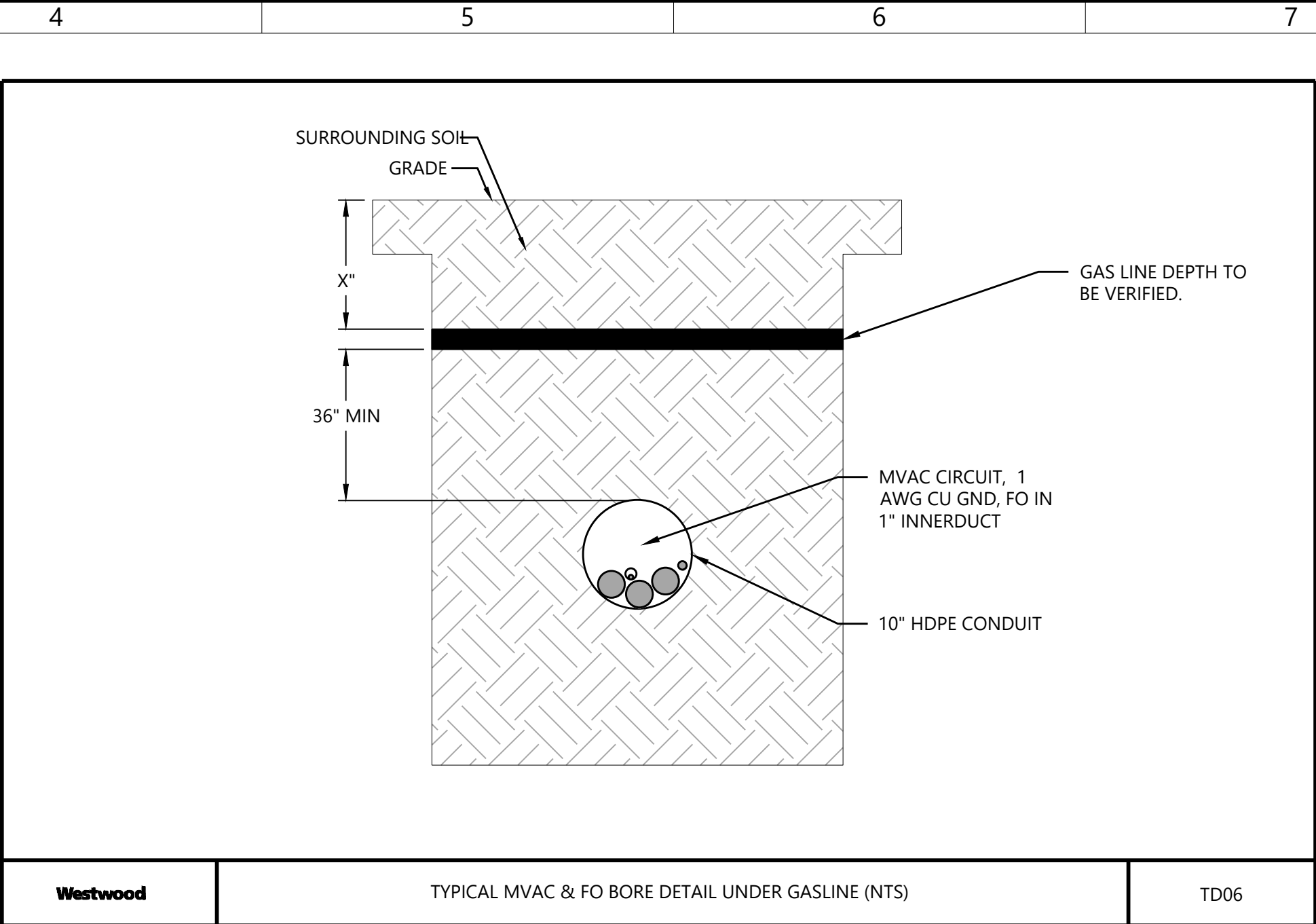
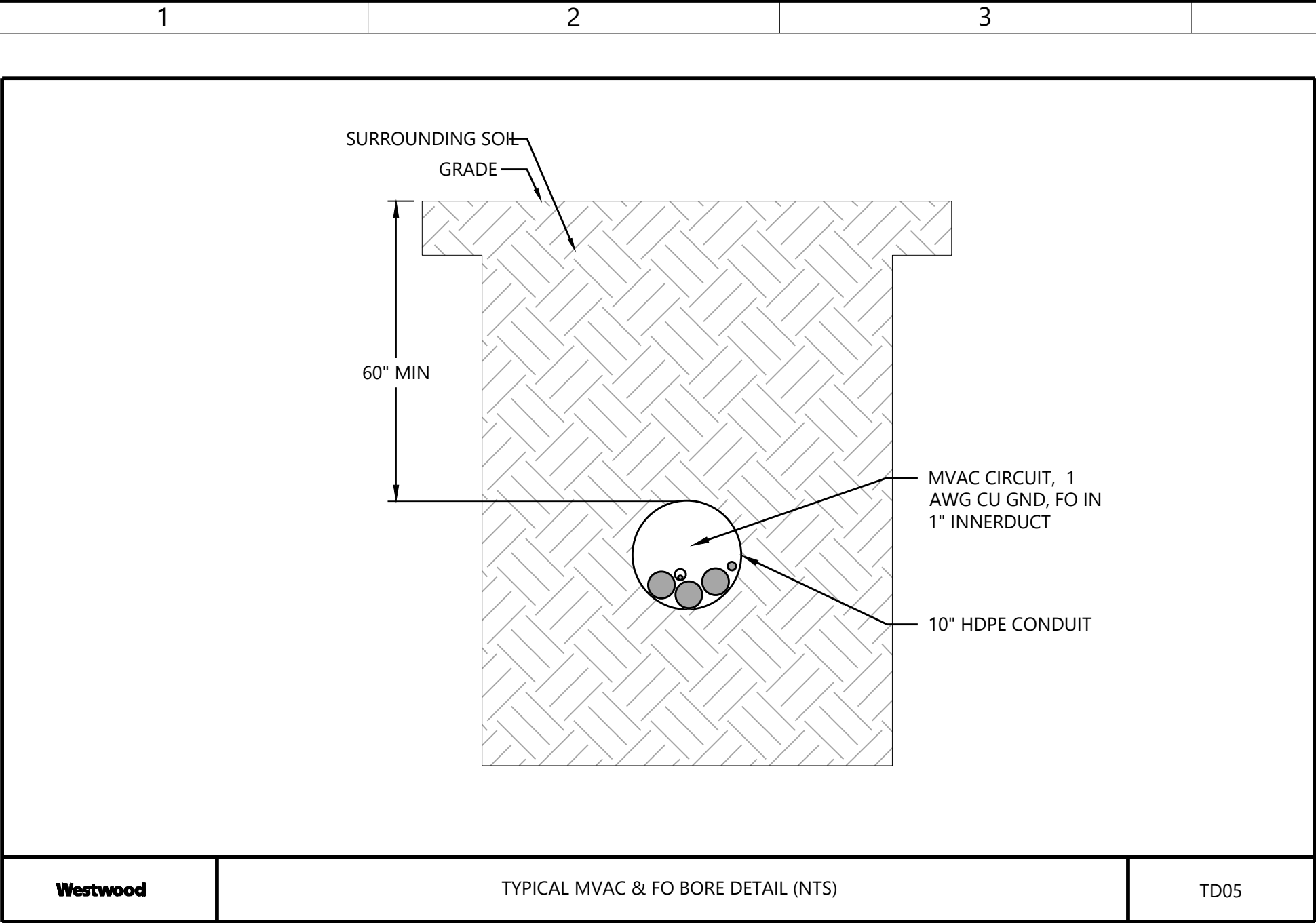
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Tree Clearing Notes

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- NOTES:
1. VERIFY UTILITY LOCATIONS AND REQUIRED CLEARANCE.
 2. VERIFY REQUIRED BORE DEPTH.
 3. TRANSITION STATION, GRADE, AND RADIUS MAY BE ADJUSTED IN FIELD WITH OWNERS APPROVAL.
 4. PRIOR TO THE START OF EXCAVATION, MARK-OUT THE PLANNED WORK AREA AND NOTIFY DIG-SAFE AND ANY NON-PARTICIPATING UTILITIES OF THE PLANNED WORK LOCATION.
 5. ALL UTILITIES IN THE VICINITY OF EACH CROSSING SHALL BE PHYSICALLY LOCATED BY TEST PITTING, BELL HOLING, OR OTHER SUITABLE APPROVED MEANS. MECHANICAL EXCAVATION EQUIPMENT (BACKHOES AND SIMILAR POWER EQUIPMENT) SHALL NOT BE USED FOR TEST PITTING OR BELL HOLING. THE ACTUAL LOCATION AND ELEVATION OF THE EXISTING UTILITY SHALL BE RECORDED AND GEO-REFERENCED. GEO-REFERENCED POSITION/ELEVATION SHALL BE TO SUB-FOOT ACCURACY.
 6. BURIED ELECTRIC CONDUCTORS SHALL HAVE A MINIMUM OF 48" COVER. IN AREAS WHERE DEPTH OF SOIL BEDROCK IS LESS THAN 48", THE ELECTRICAL CONDUCTORS SHALL BE BURIED BELOW THE SURFACE OF THE BEDROCK IF FRIABLE/RIPPABLE, OR AS NEAR AS POSSIBLE TO THE SURFACE OF THE BEDROCK.

Westwood

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Fax: (952) 937-5822 Minnetonka, MN 55343
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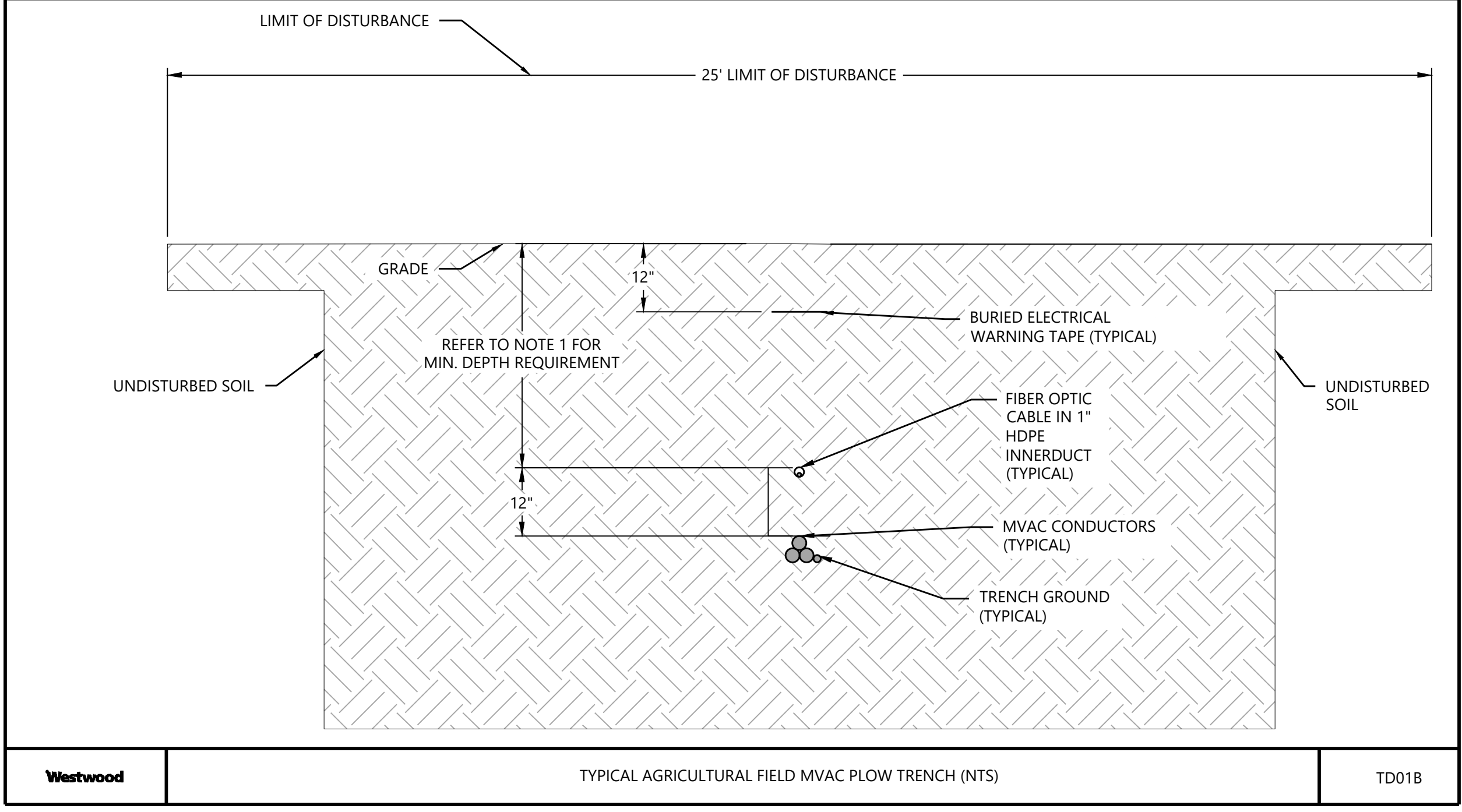
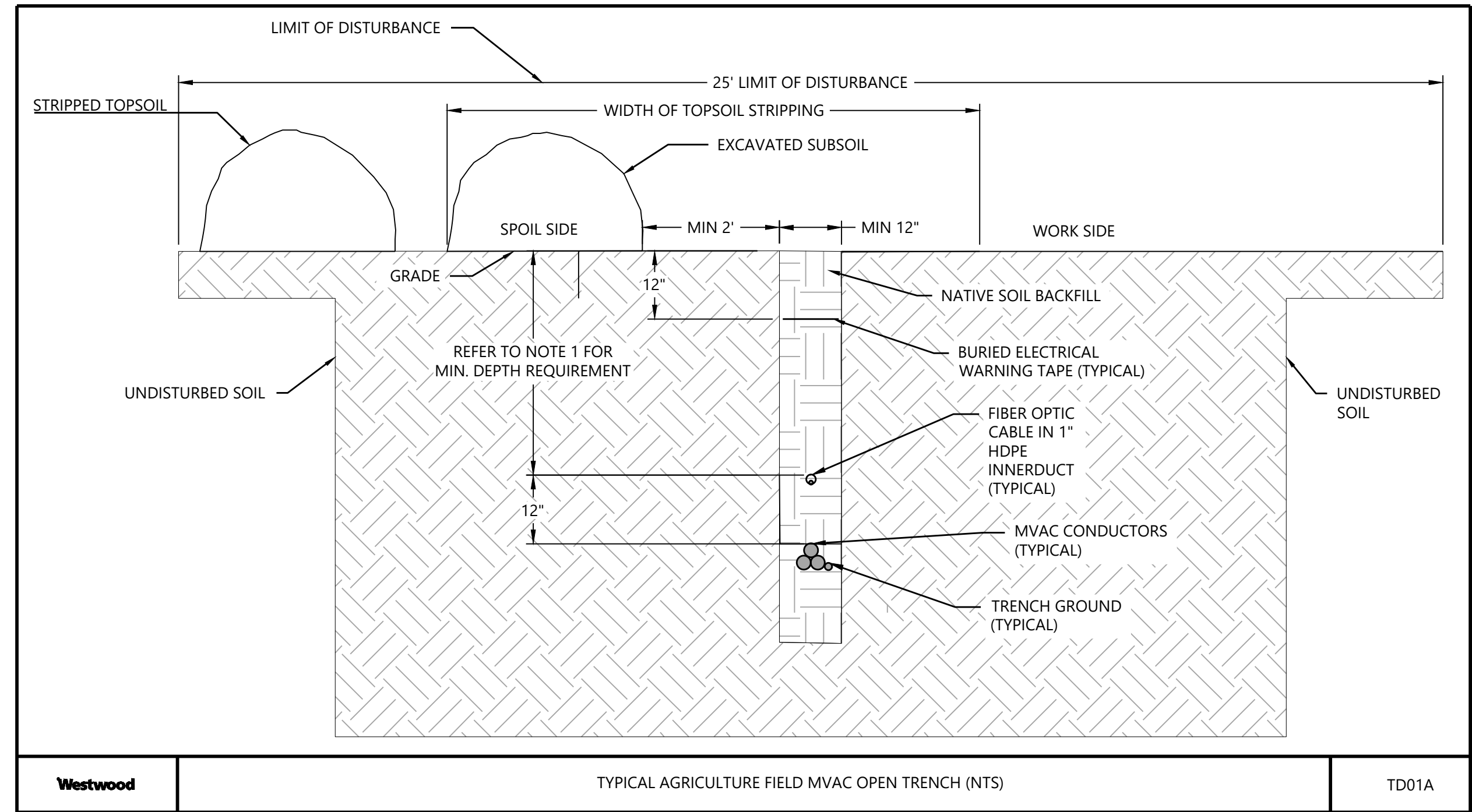
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