



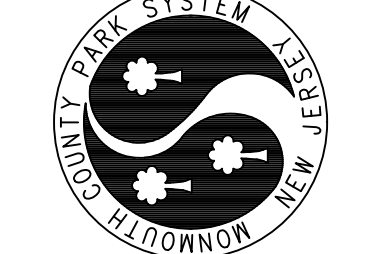
Construction Plan - Base Bid	1 of 10
Drainage Plan - Base Bid	2 of 10
Construction Plan - Alternate Bid	3 of 10
Roadway Centerline Profile	4 of 10
Roadway Cross Section 1	5 of 10
Roadway Cross Section 2	6 of 10
Construction Details	7 of 10
Erosion & Sediment Control Plan	8 of 10
Erosion & Sediment Control Notes	9 of 10
Erosion & Sediment Control Details	10 of 10

REV _____ DATE _____ BY _____

THESE DRAWINGS, SPECIFICATIONS AND ORDERS ARE THE PROPERTY OF THE MONMOUTH COUNTY PARK SYSTEM AND WILL BE LOANED TO YOU WITH THE UNDERSTANDING THAT YOU ARE NOT TO REPRODUCE, COPIY, COPY, REPRODUCE OR TRANSMIT THESE DRAWINGS WITHOUT THE WRITTEN CONSENT OF THE COUNTY PARK SYSTEM. YOU SHALL BE RESPONSIBLE AND LIABLE FOR PROBLEMS WHICH MAY OCCUR FROM FAILURE TO FOLLOW THE PLANS, SPECIFICATIONS AND DESIGN INTENT. ANY OTHER FAILURE TO FOLLOW THESE PLANS SHALL BE YOUR RESPONSIBILITY AND NOT THAT OF THE PROFESSIONAL ENGINEER. ANY DISCREPANCIES, AMBIGUOUS OR CONFLICTING INFORMATION SHALL BE CLARIFIED BY THE ENGINEER.

MONMOUTH COUNTY PARK SYSTEM
 BOARD OF PARK AND RECREATION COMMISSIONERS
 805 NEWMAN SPRINGS ROAD
 LINCROFT, NEW JERSEY 07738-1965
 PHONE (732) 842-4000 FAX (732) 842-3640

James Mowczan N.J. Professional Engineer License No. 32486 Date _____



PAVING & DRAINAGE IMPROVEMENTS
 Big Brook Park, 521 Route 520, Marlboro, NJ
 Construction Plan - BASE BID

DATE 11-10-22 SCALE 1/4" = 40'
 PROJECT # _____ DRAWN _____ CHECKED _____
 PROJECT # _____

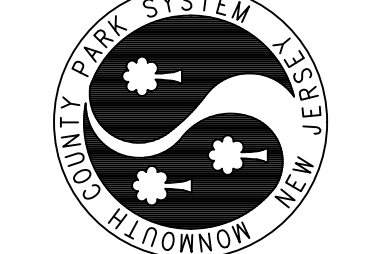


REV _____ DATE _____ BY _____

THESE DRAWINGS, SPECIFICATIONS AND ORDERS ARE THE PROPERTY OF THE MONMOUTH COUNTY BOARD OF PARK AND RECREATION COMMISSIONERS. THEY SHALL BE FOR THE USE OF THE PROJECT FOR WHICH THEY WERE PREPARED AND NO PART OF THEM SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF THE BOARD OF PARK AND RECREATION COMMISSIONERS. THE BOARD OF PARK AND RECREATION COMMISSIONERS SHALL NOT BE RESPONSIBLE FOR PROBLEMS OR DAMAGES THAT MAY BE CAUSED BY THE USER'S FAILURE TO FOLLOW THE PLANS, SPECIFICATIONS AND DESIGN INTENT. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR FOLLOWING ALL APPLICABLE REGULATIONS AND ORDINANCES. THE BOARD OF PARK AND RECREATION COMMISSIONERS SHALL NOT BE RESPONSIBLE FOR ANY CONFLICTS, AMBIGUITIES OR CONFLICTS THAT MAY ARISE.

MONMOUTH COUNTY PARK SYSTEM
BOARD OF PARK AND RECREATION COMMISSIONERS
 805 NEWMAN SPRINGS ROAD
 LINCOLN, NEW JERSEY 07738-1965
 PHONE (732) 842-4000 FAX (732) 842-3640

James Mowczan N.J. Professional Engineer License No. 32486 Date _____



PAVING & DRAINAGE IMPROVEMENTS
Big Brook Park, 521 Route 520, Marlboro, NJ
 Drainage Plan - BASE BID

DATE 11-10-22 SCALE 1in = 40ft PROJECT # _____ DRAWN _____ CHECKED _____

SHEET NO. _____
 2 OF 10

BASE BID

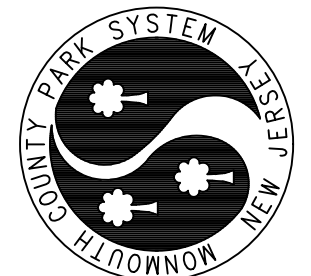


REV _____ DATE _____ BY _____

THESE DRAWINGS, SPECIFICATIONS AND ORDERS ARE THE PROPERTY OF THE MONMOUTH COUNTY BOARD OF PARK AND RECREATION COMMISSIONERS. THEY SHALL BE COPIED OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF THE BOARD. THE USER SHALL BE RESPONSIBLE AND LIABLE FOR PROBLEMS WHICH MAY BE CAUSED BY FAILURE TO FOLLOW THE PLANS, SPECIFICATIONS AND DESIGN INTENT. THE USER SHALL BE RESPONSIBLE AND LIABLE FOR PROBLEMS WHICH MAY BE CAUSED BY FAILURE TO FOLLOW THE PLANS, SPECIFICATIONS AND DESIGN INTENT. THE USER SHALL BE RESPONSIBLE AND LIABLE FOR PROBLEMS WHICH MAY BE CAUSED BY FAILURE TO FOLLOW THE PLANS, SPECIFICATIONS AND DESIGN INTENT.

MONMOUTH COUNTY PARK SYSTEM
BOARD OF PARK AND RECREATION COMMISSIONERS
 805 NEWMAN SPRINGS ROAD
 LINCOLN, NEW JERSEY 07738-1965
 PHONE (732) 842-4000 FAX (732) 842-3640

James Mowczan N.J. Professional Engineer License No. 32486 Date _____

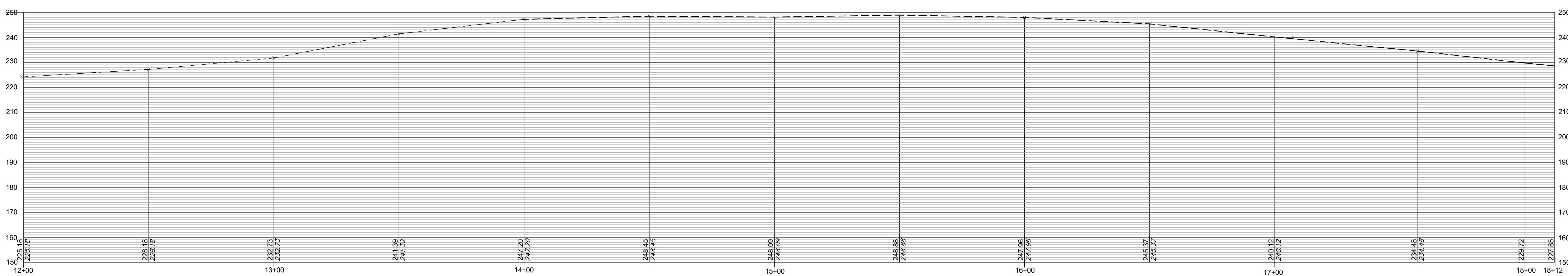
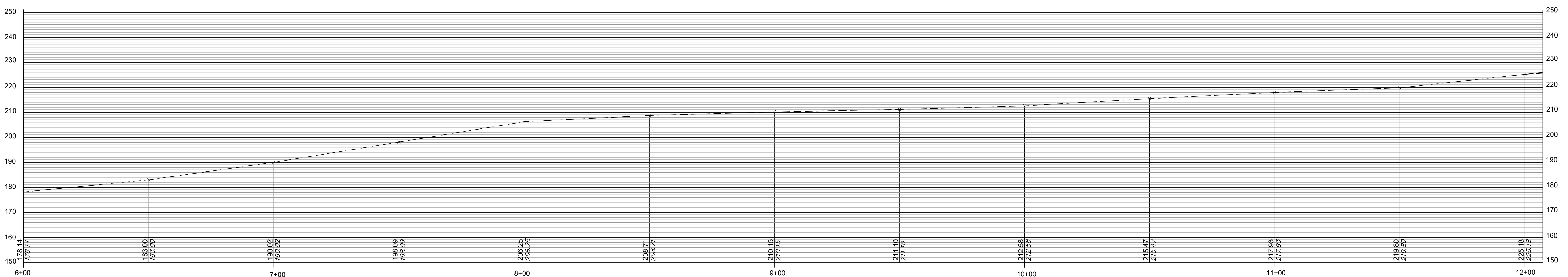
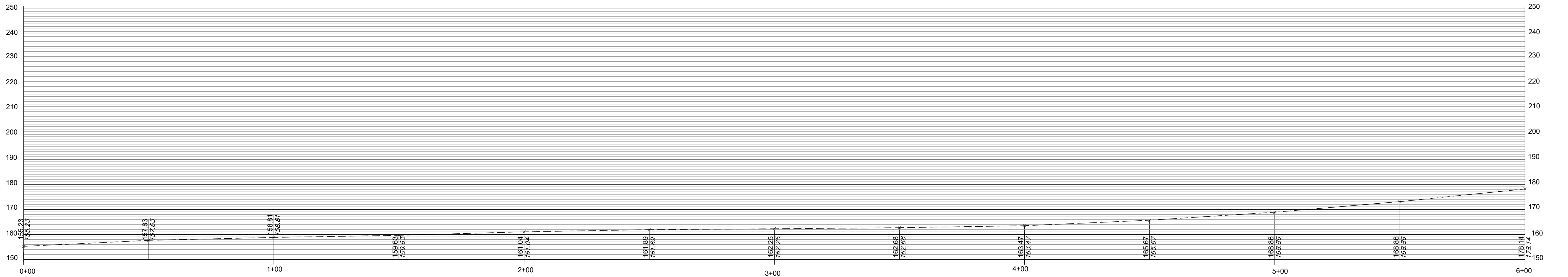


PAVING & DRAINAGE IMPROVEMENTS
Big Brook Park, 521 Route 520, Marlboro, NJ
Construction Plan - ALTERNATE BID

DATE 11-10-22 SCALE 1" = 40ft PROJECT # _____ DRAWN _____ CHECKED _____

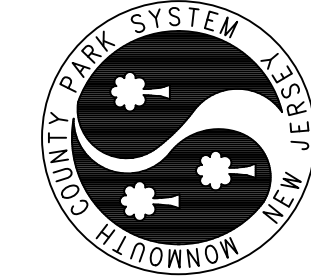
SHEET NO. _____
 3 OF 10

ALTERNATE BID



REV _____ DATE _____ BY _____

MONMOUTH COUNTY PARK SYSTEM
 BOARD OF PARK AND RECREATION COMMISSIONERS
 800 NEMAN SPRINGS ROAD, 07718-1955
 MORRISTOWN, NEW JERSEY
 PHONE (732) 842-4000 FAX (732) 842-3640

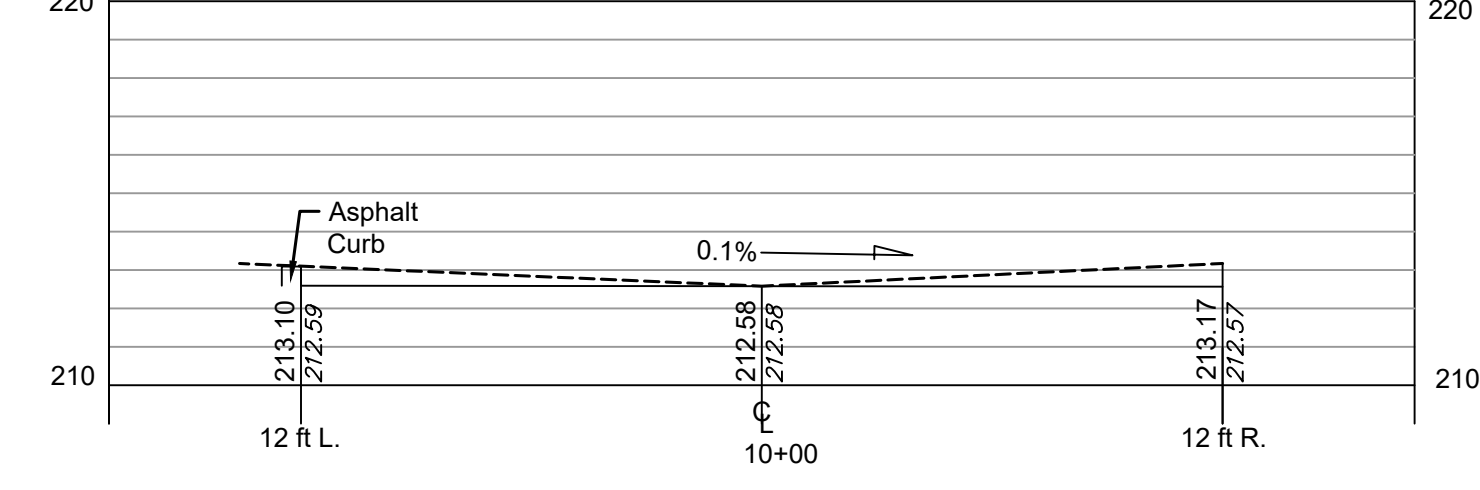
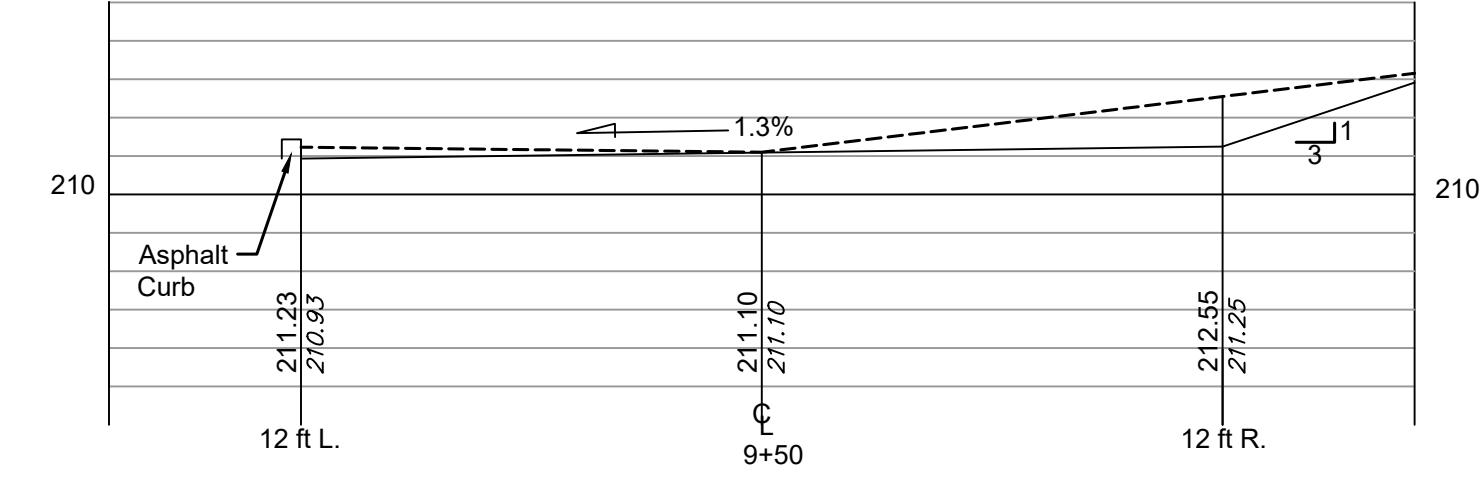
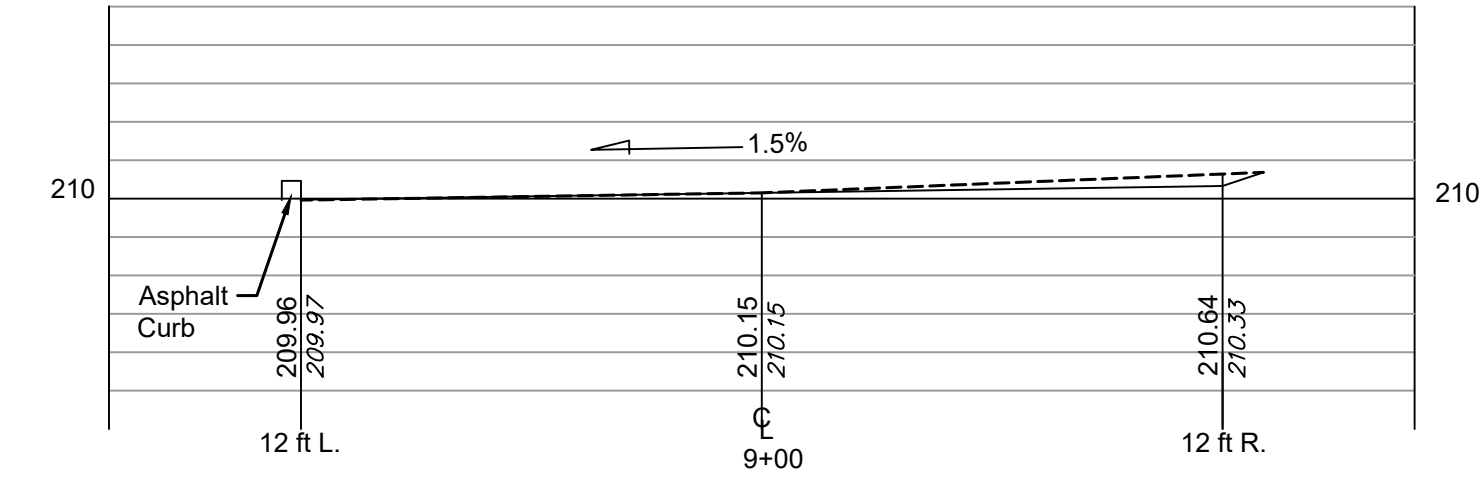
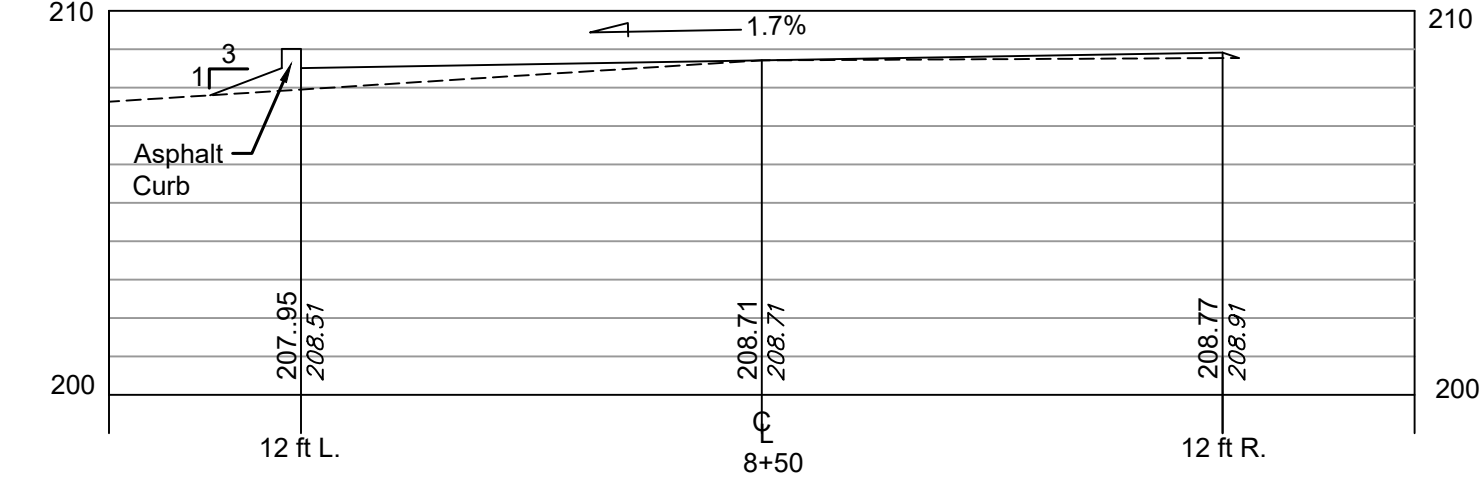
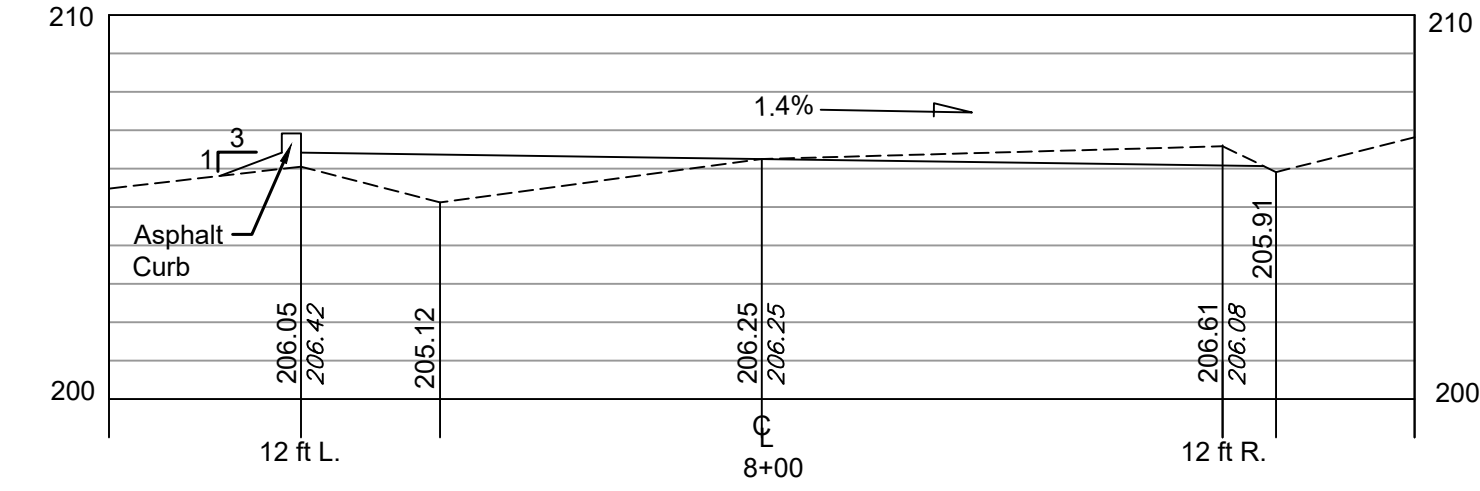
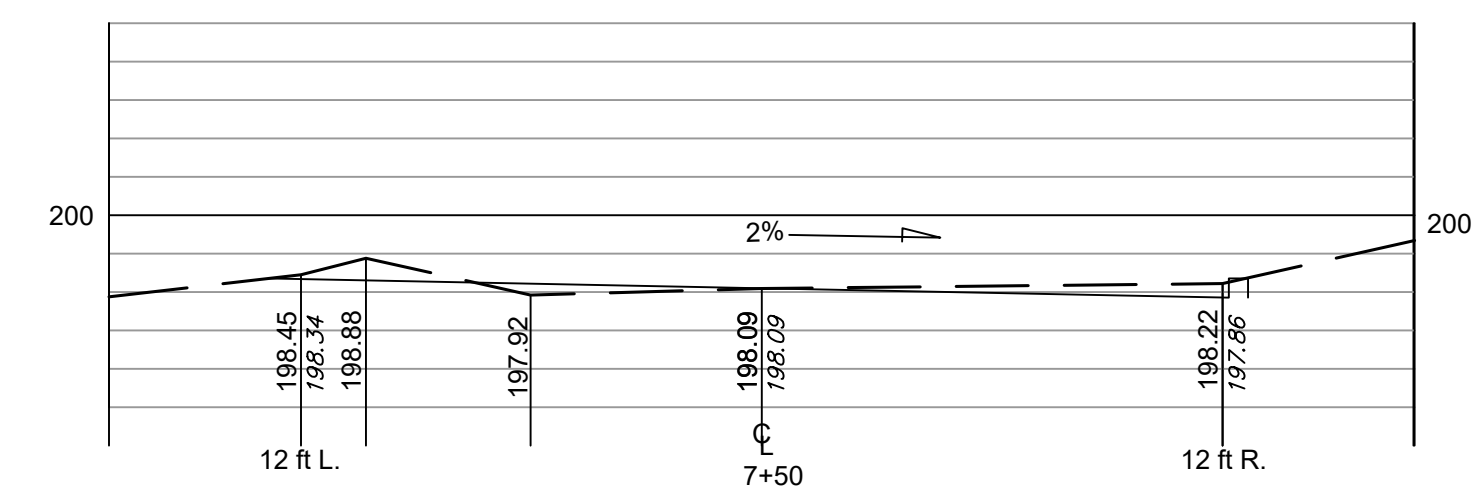
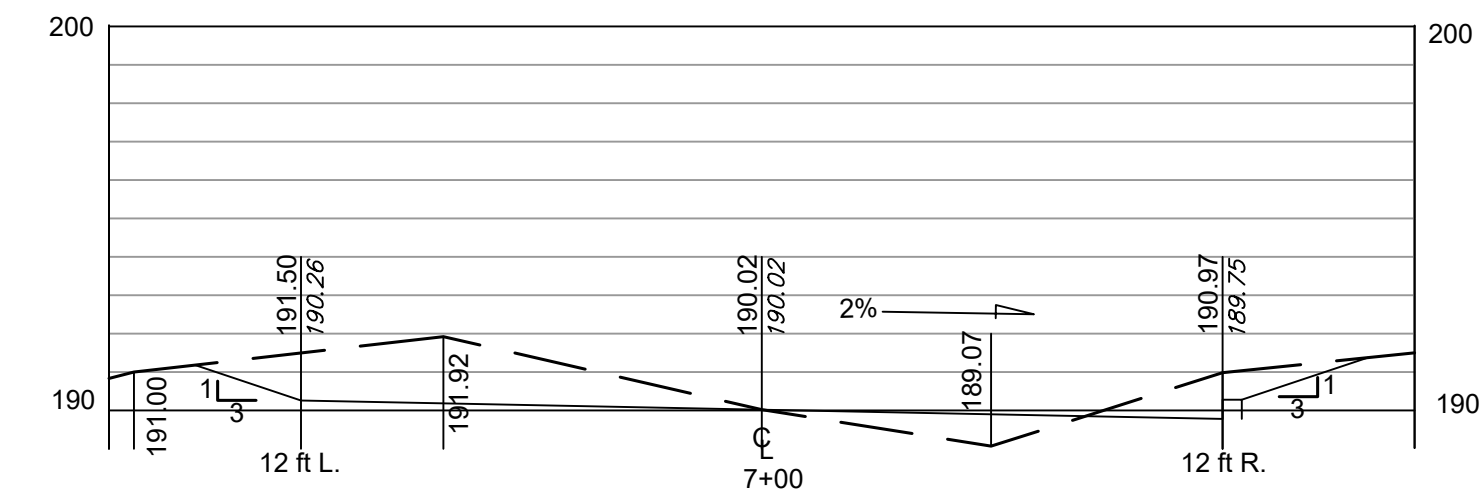
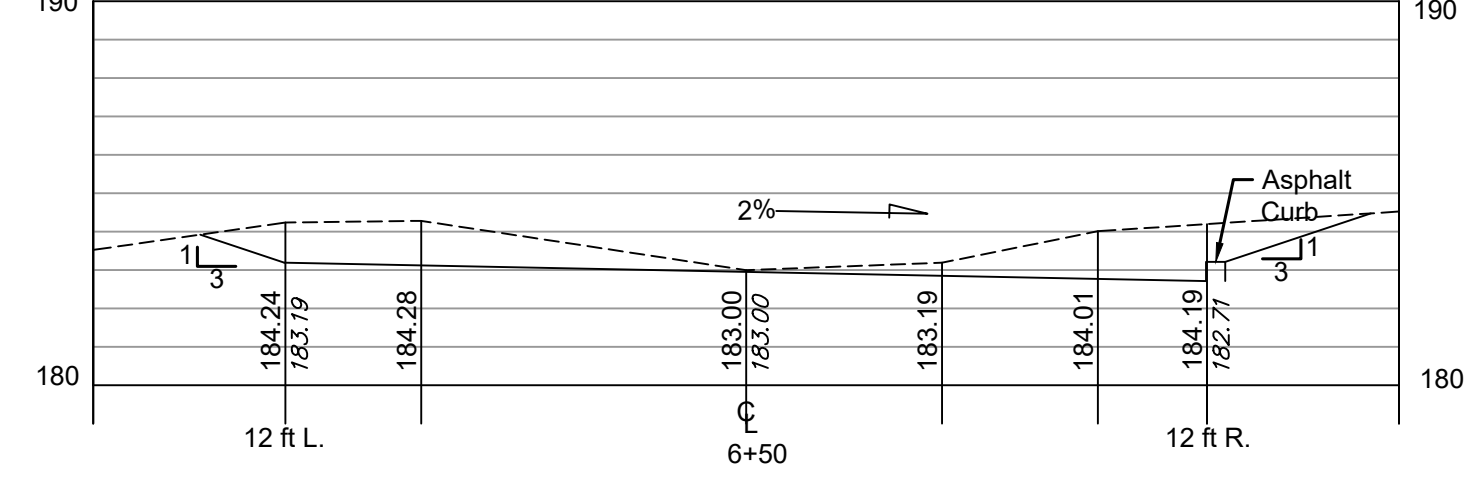
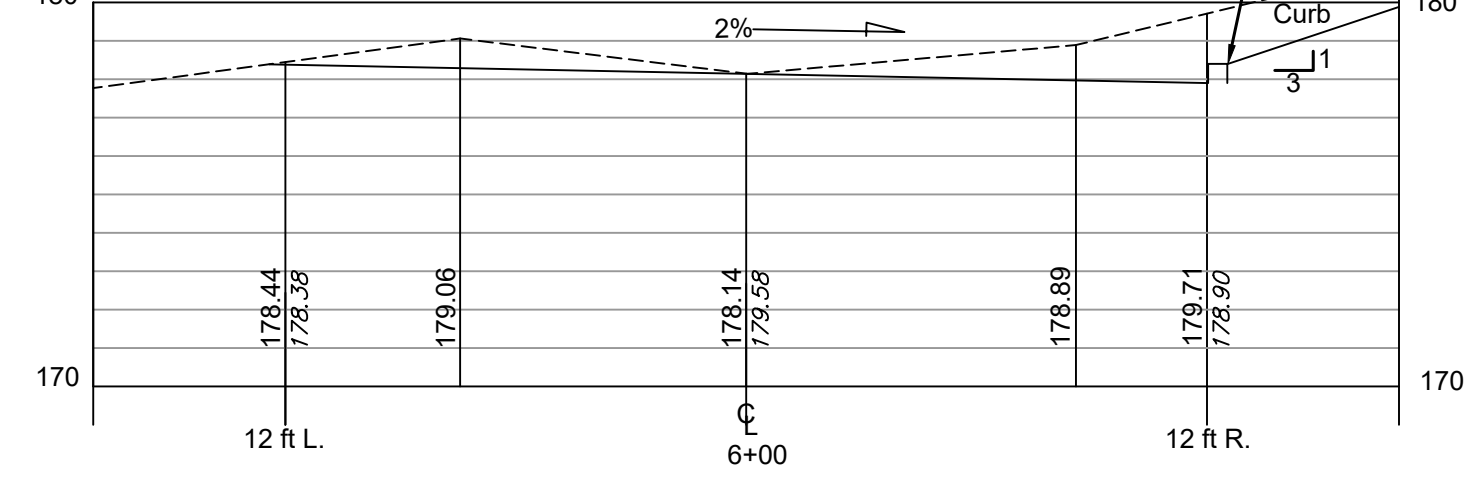
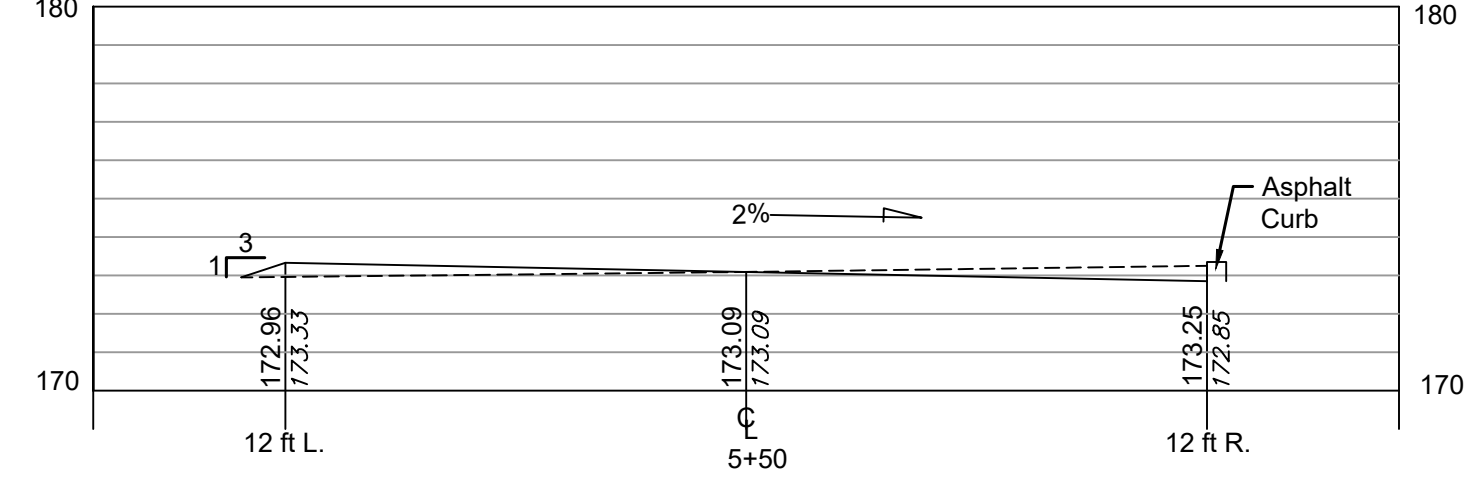
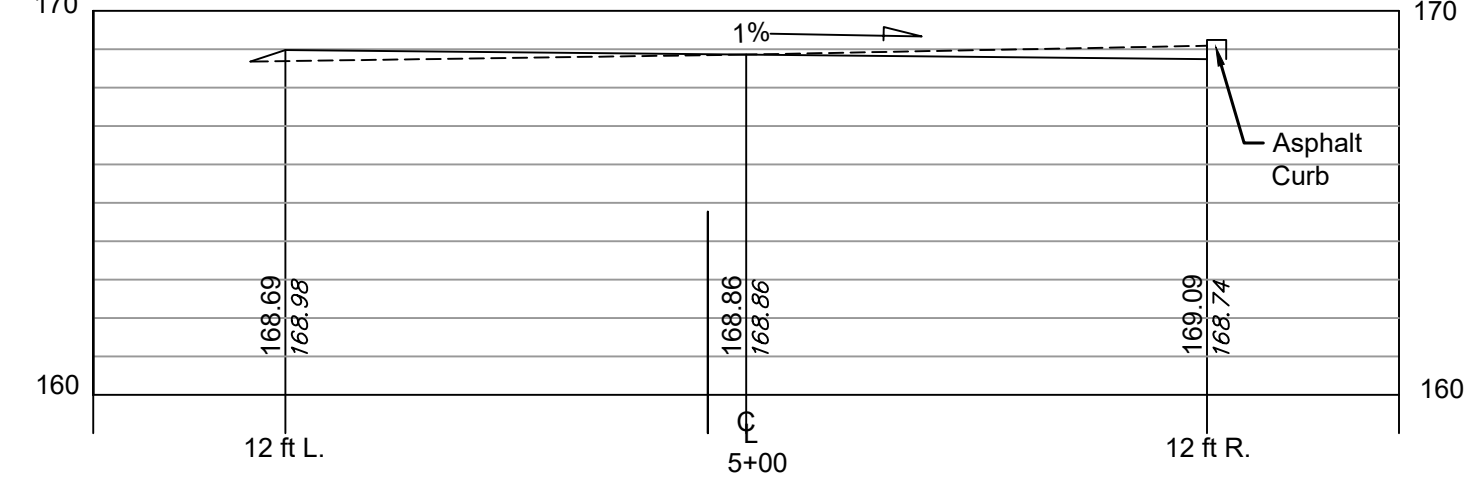
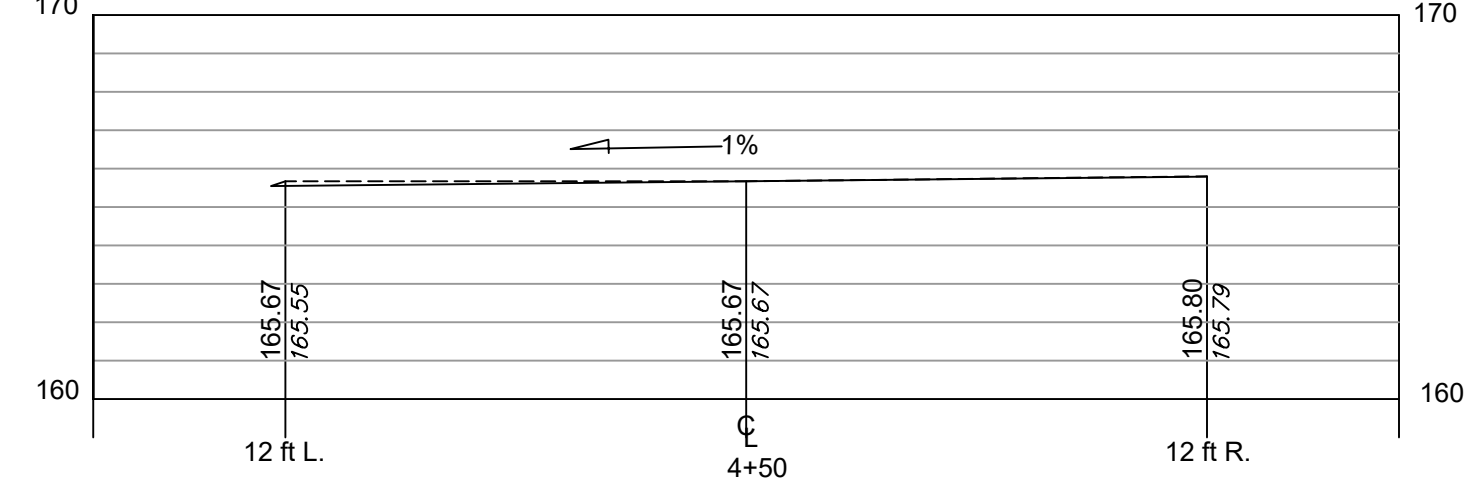
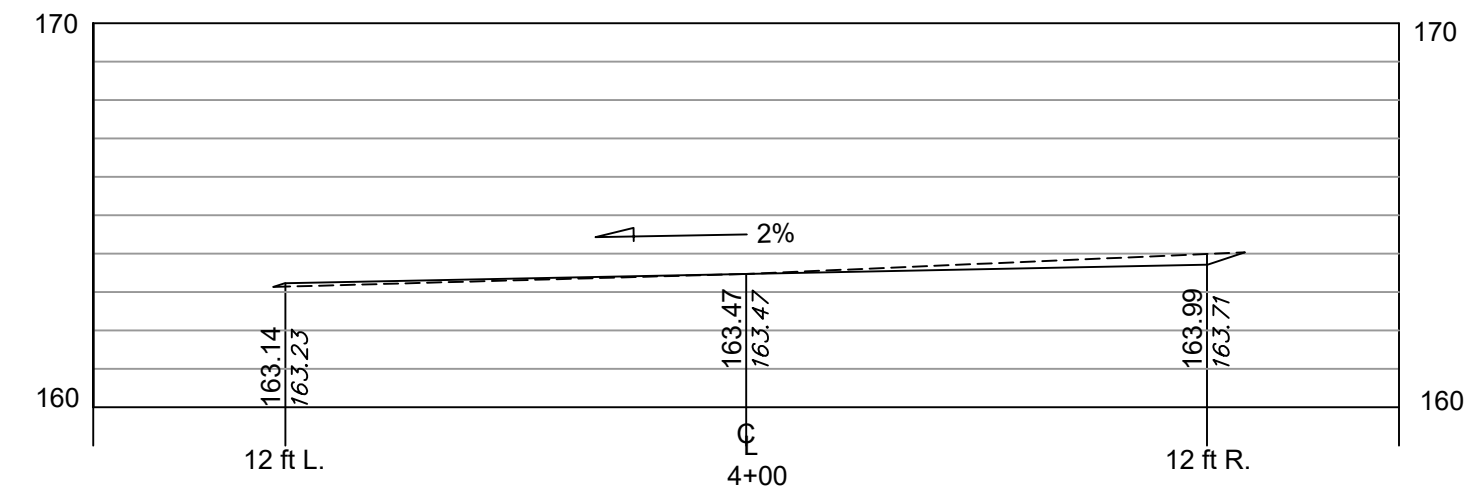
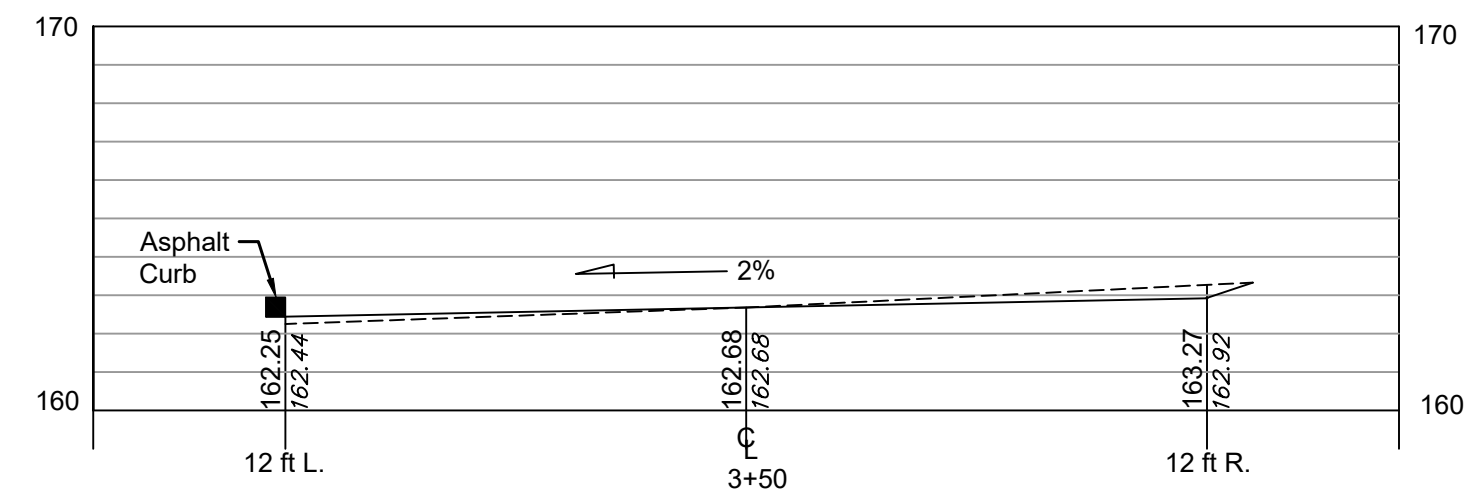
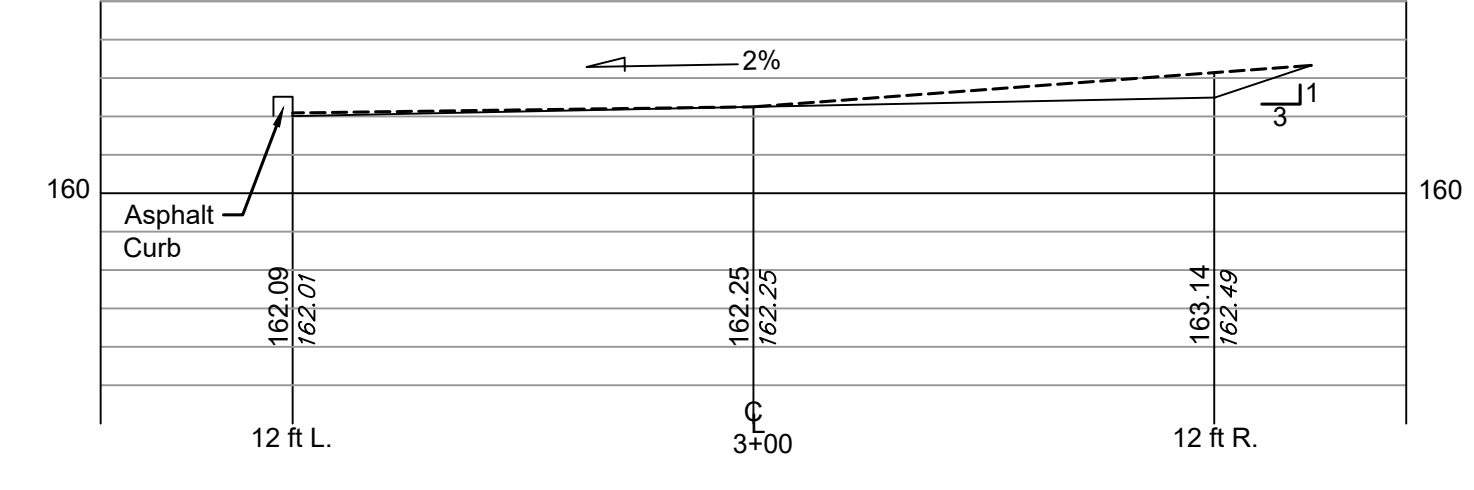
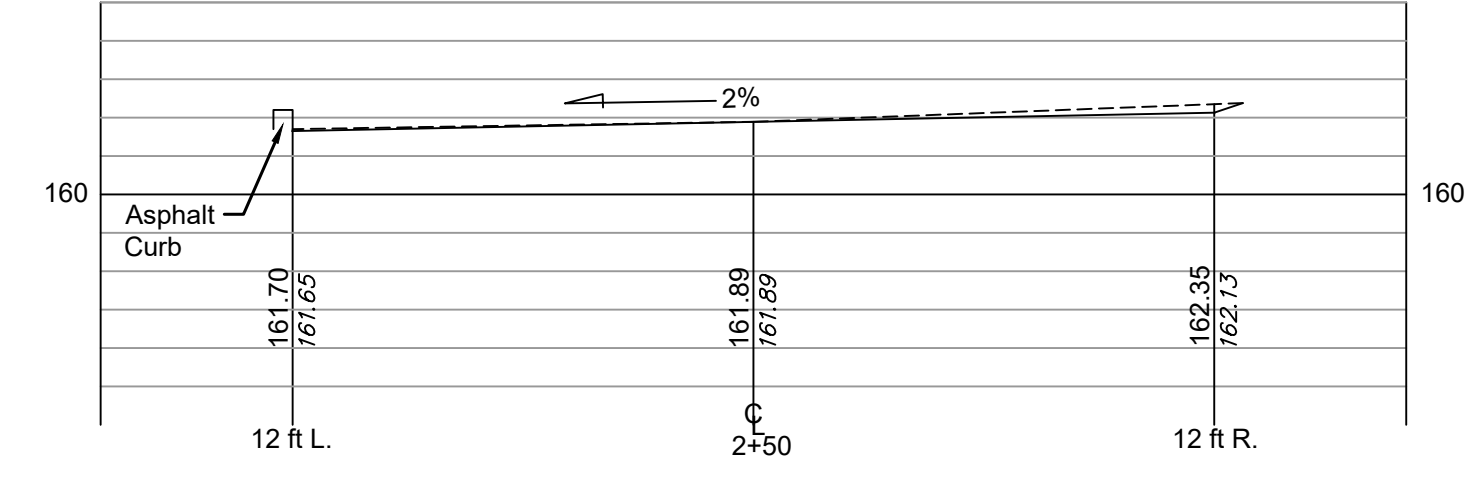
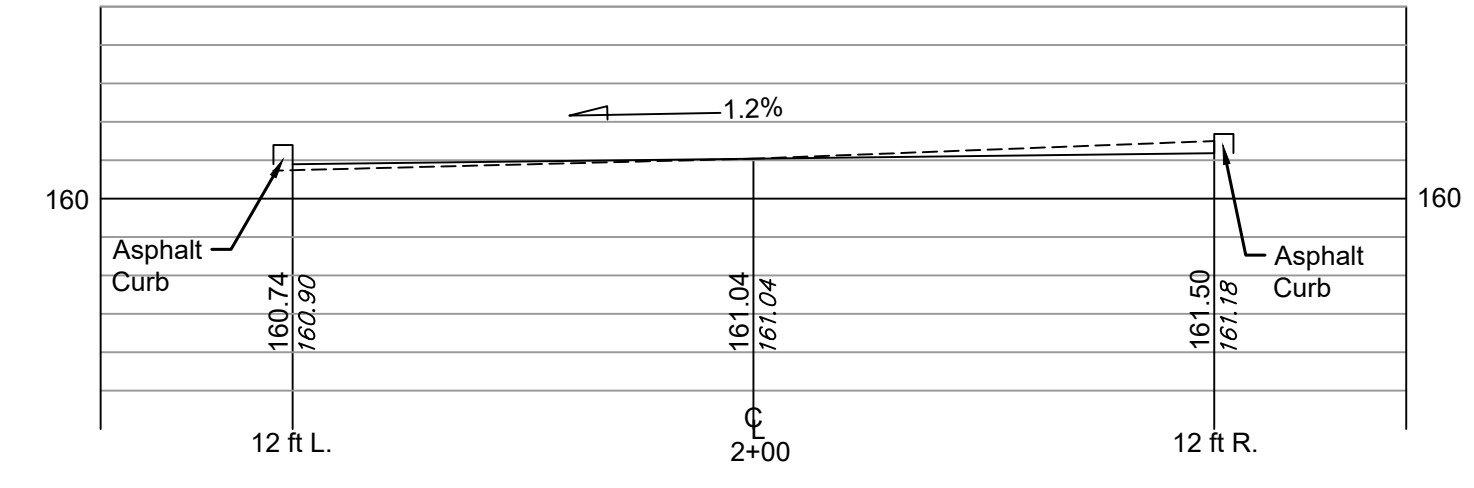
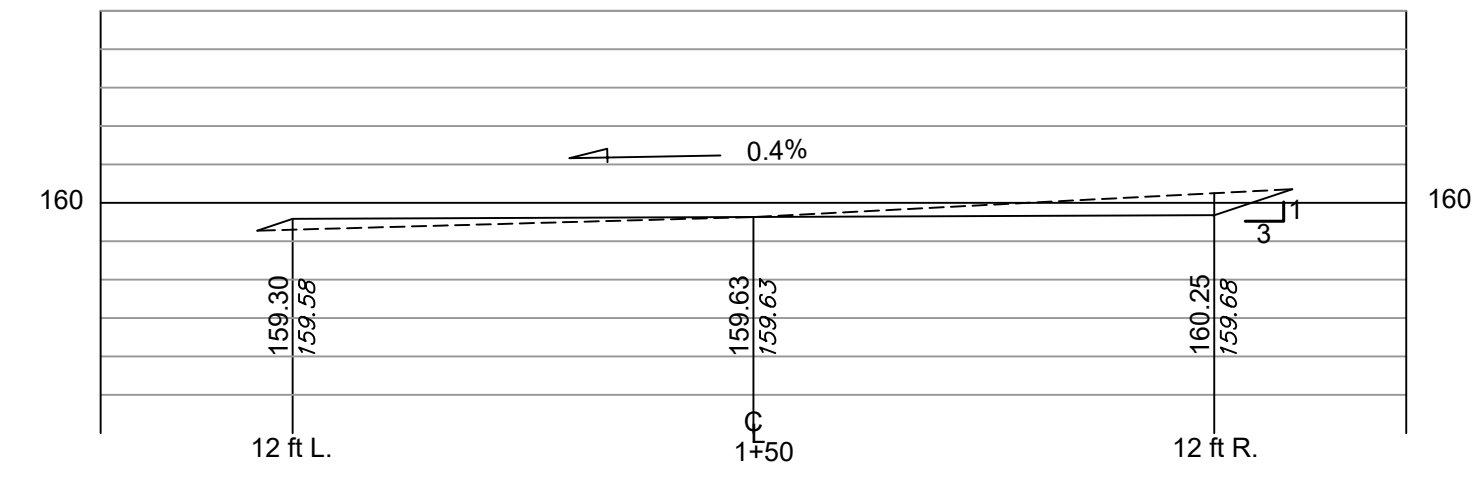
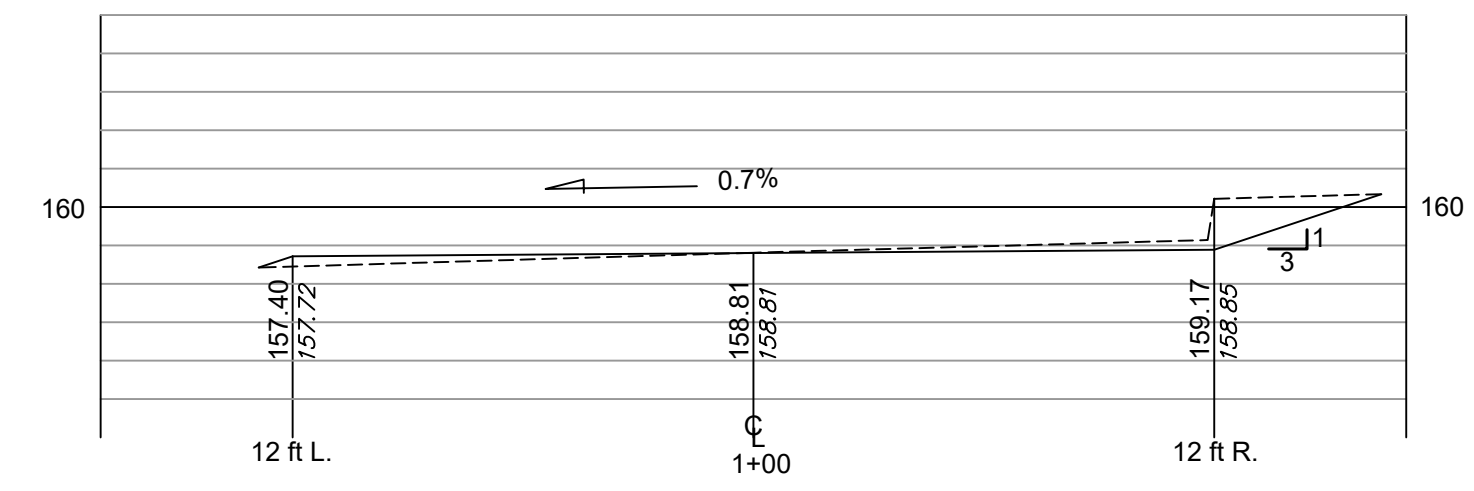
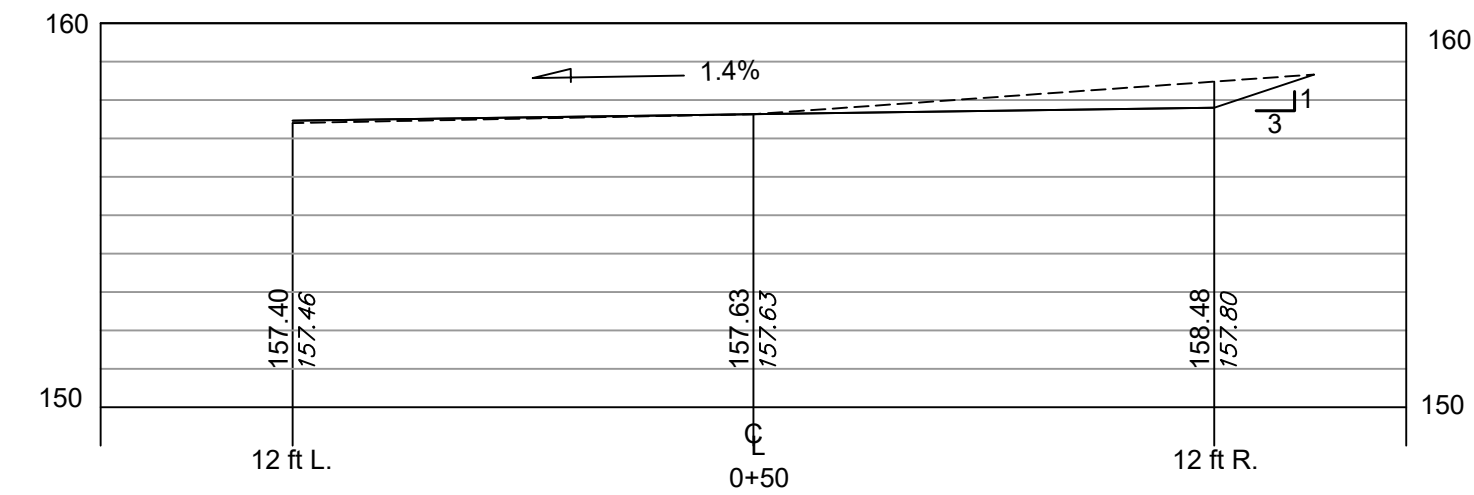
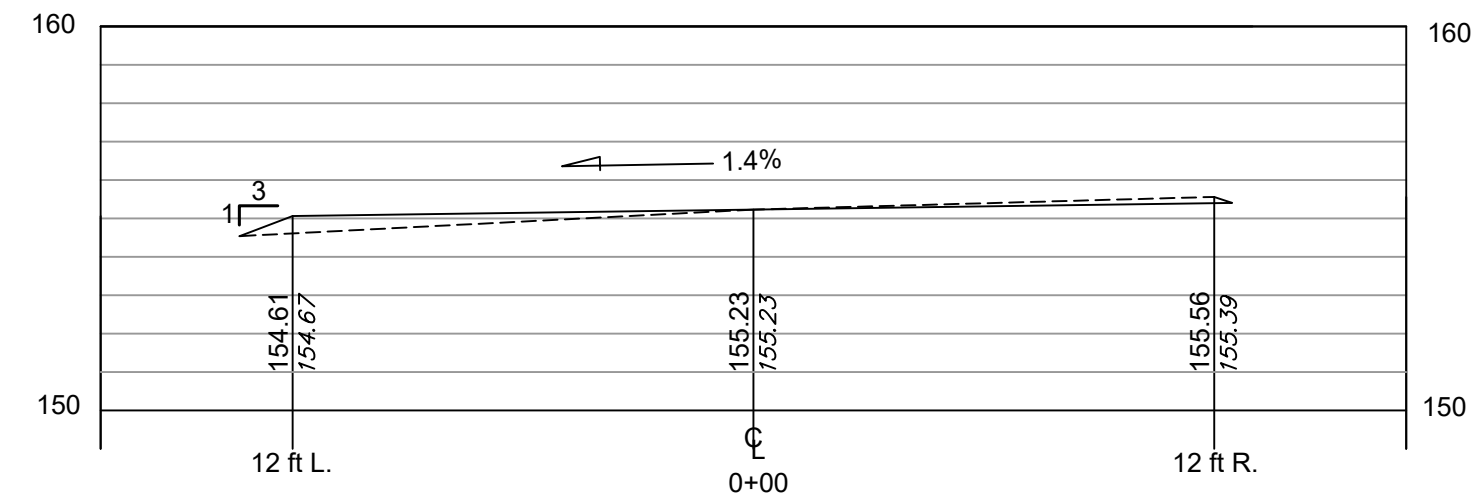


PAVING & DRAINAGE IMPROVEMENTS
 Big Brook Park, 521 Route 520, Marlboro, NJ
 Roadway Centerline Profile

DATE 11-10-22 SCALE 1in = 20ft PROJECT # _____ DRAWN JIM CHECKED _____

SHEET NO. _____
 4 OF 10

THESE DRAWINGS, SPECIFICATIONS AND DESIGN ARE THE PROPERTY OF MONMOUTH COUNTY PARK SYSTEM AND SHALL BE USED ONLY FOR THE PROJECT AND PURPOSES FOR WHICH THEY WERE PREPARED. NO PART OF THESE DRAWINGS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF MONMOUTH COUNTY PARK SYSTEM. THE USER OF THESE DRAWINGS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF ALL DATA AND CONDITIONS SHOWN HEREON. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF ALL DATA AND CONDITIONS SHOWN HEREON. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF ALL DATA AND CONDITIONS SHOWN HEREON. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF ALL DATA AND CONDITIONS SHOWN HEREON.



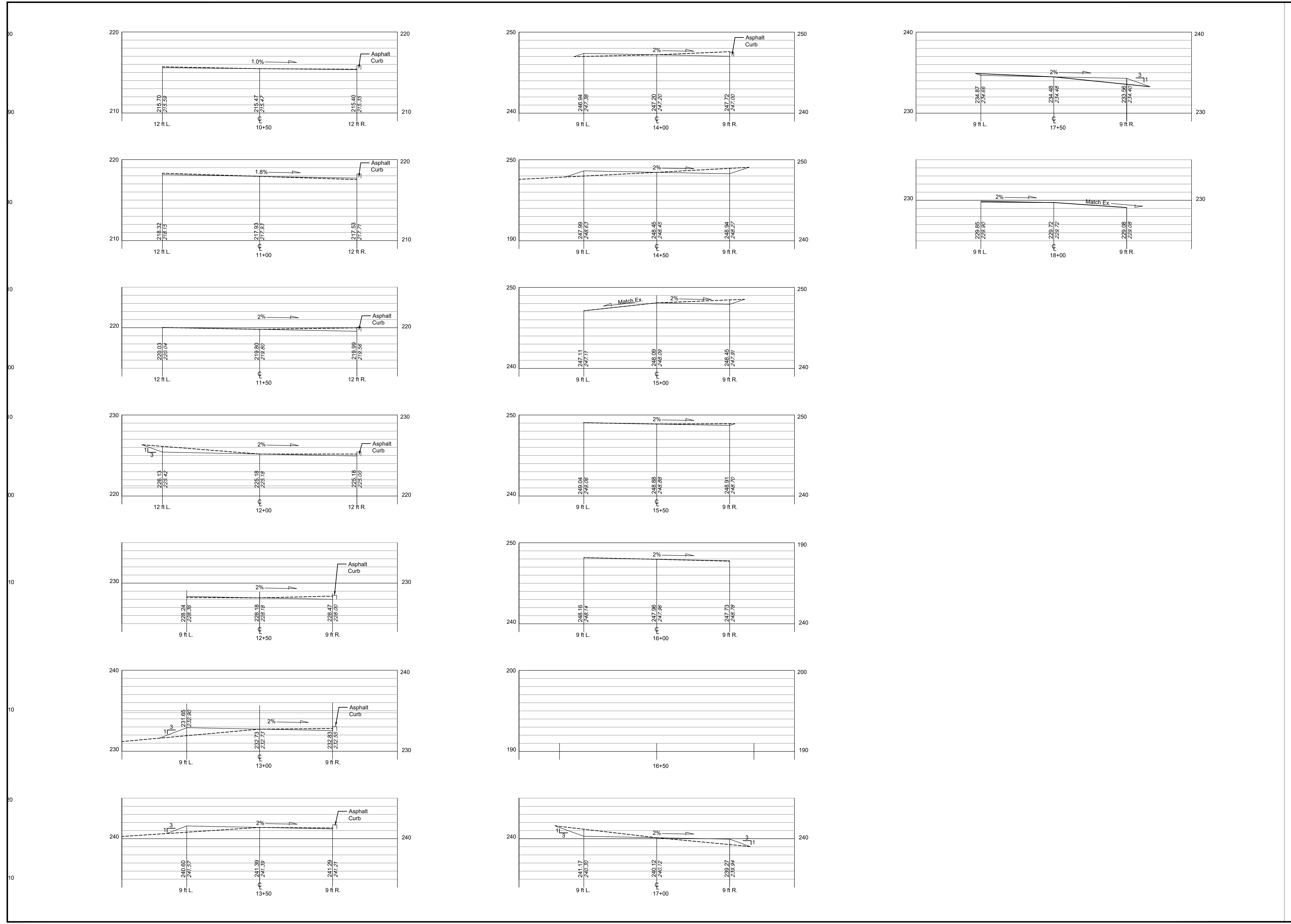
REV	DATE	BY

MONMOUTH COUNTY PARK SYSTEM
 BOARD OF PARK AND RECREATION COMMISSIONERS
 805 NEWMAN SPRINGS ROAD
 LINCROFT, NEW JERSEY 07738-1965
 PHONE (732) 842-4000 FAX (732) 842-3640



PAVING & DRAINAGE IMPROVEMENTS
 Big Brook Park, 521 Route 520, Marlboro, NJ
 Roadway Cross Section 1

DATE: 11-10-22 SCALE: 1in = 50ft PROJECT # _____ DRAWN: JM CHECKED: _____



REV _____ DATE _____ BY _____

THE DESIGNER, ENGINEERING AND DESIGN FIRM HAS PREPARED THIS PLAN AND SPECIFICATIONS FOR THE MONMOUTH COUNTY PARK AND RECREATION COMMISSIONERS. THE DESIGNER'S RESPONSIBILITY IS LIMITED TO THE DESIGN AND SPECIFICATIONS PROVIDED HEREON. THE DESIGNER SHALL BE COPEL OF THE MONMOUTH COUNTY PARK AND RECREATION COMMISSIONERS. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS PROVIDED HEREON. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS PROVIDED HEREON. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS PROVIDED HEREON.

MONMOUTH COUNTY PARK SYSTEM
 BOARD OF PARK AND RECREATION COMMISSIONERS
 805 NEWMAN SPRINGS ROAD
 LINCROFT, NEW JERSEY 07738-1965
 PHONE (732) 842-4000 FAX (732) 842-3640



PAVING & DRAINAGE IMPROVEMENTS
 Big Brook Park, 521 Route 520, Marlboro, NJ
 Roadway Cross Section - 2

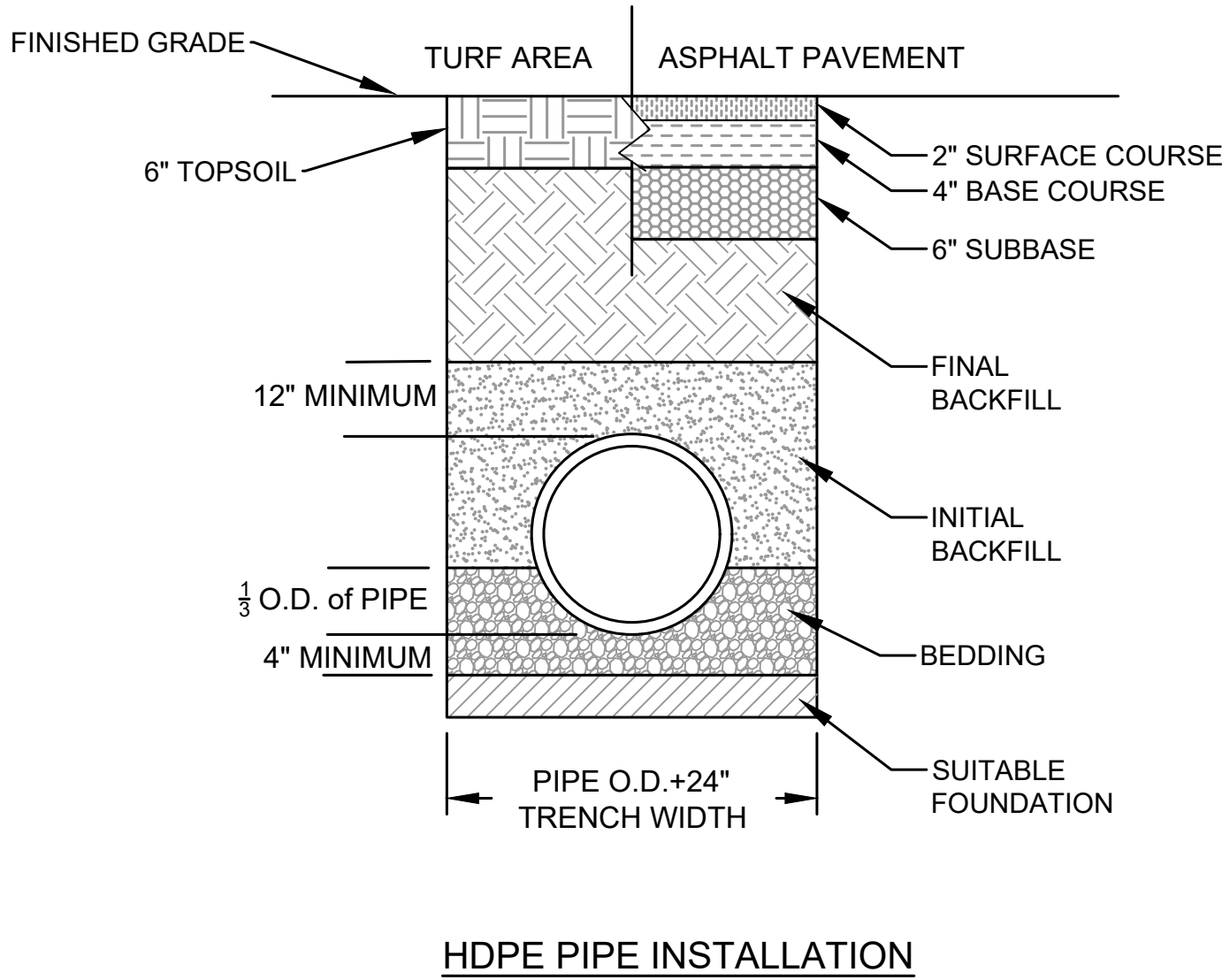
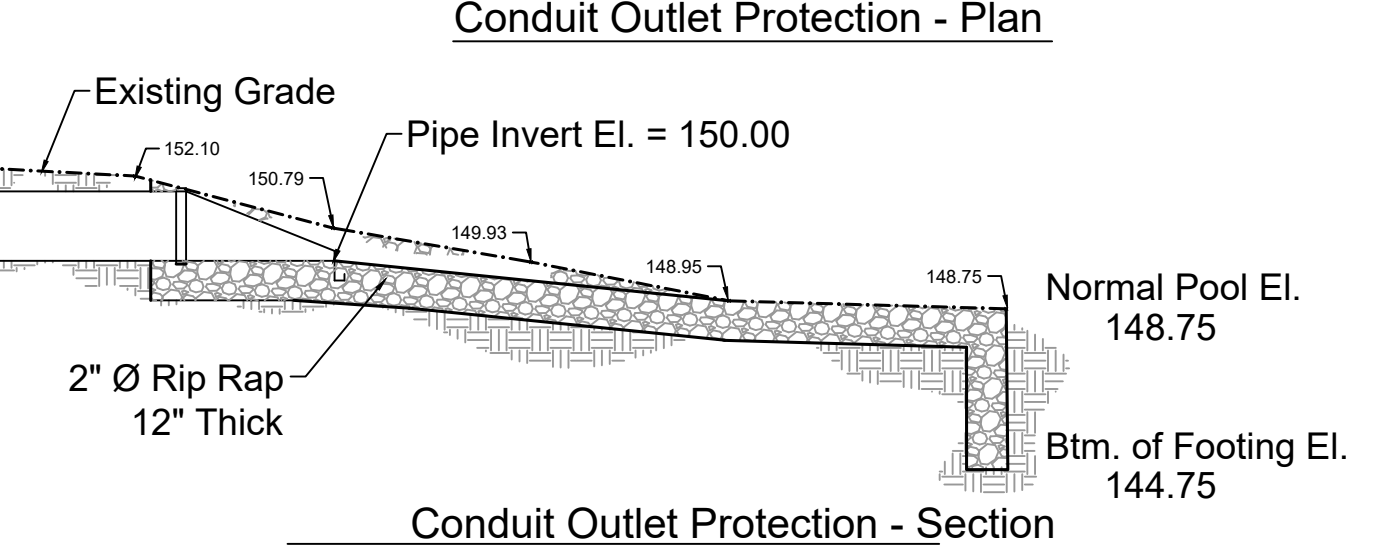
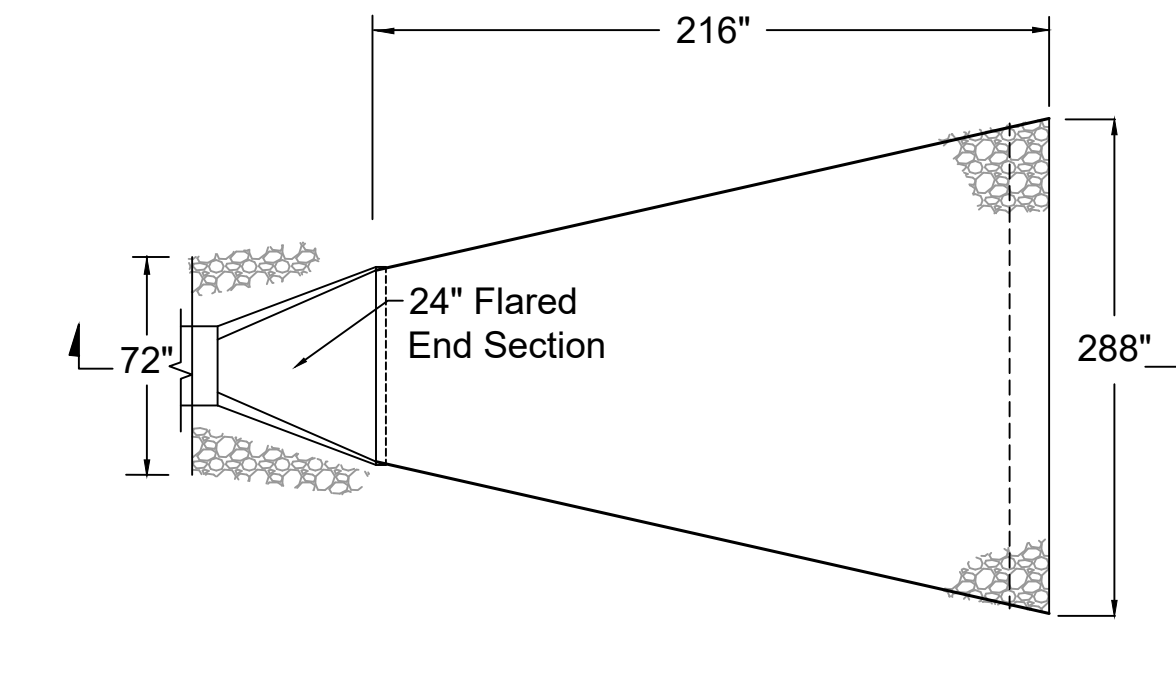
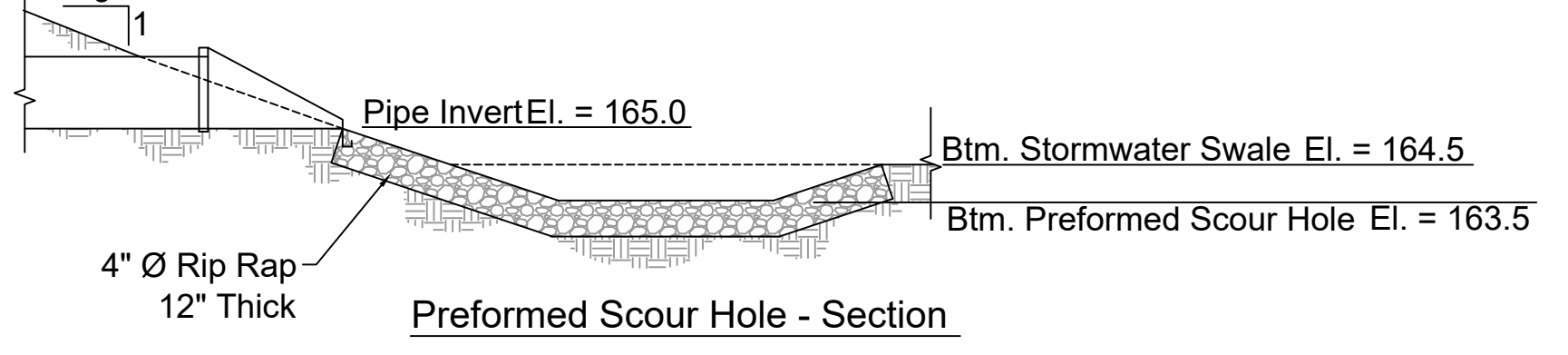
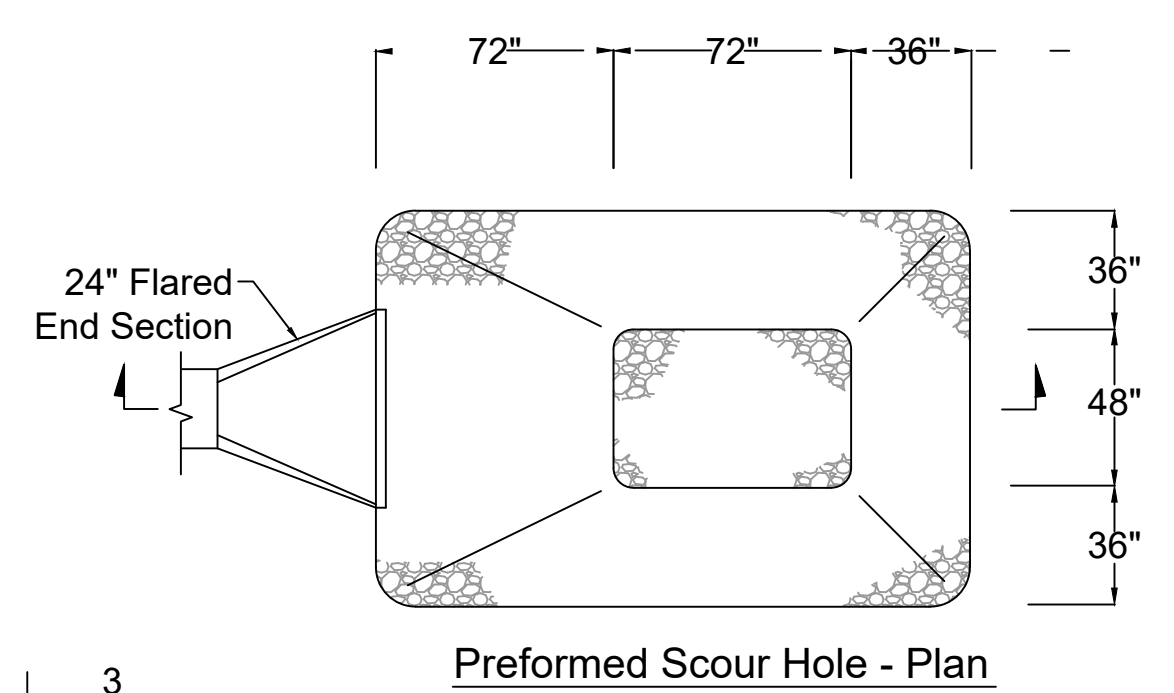
DATE 11-10-22 SCALE 1in = 50ft PROJECT # _____ DRAWN JM CHECKED _____

REV	DATE	BY

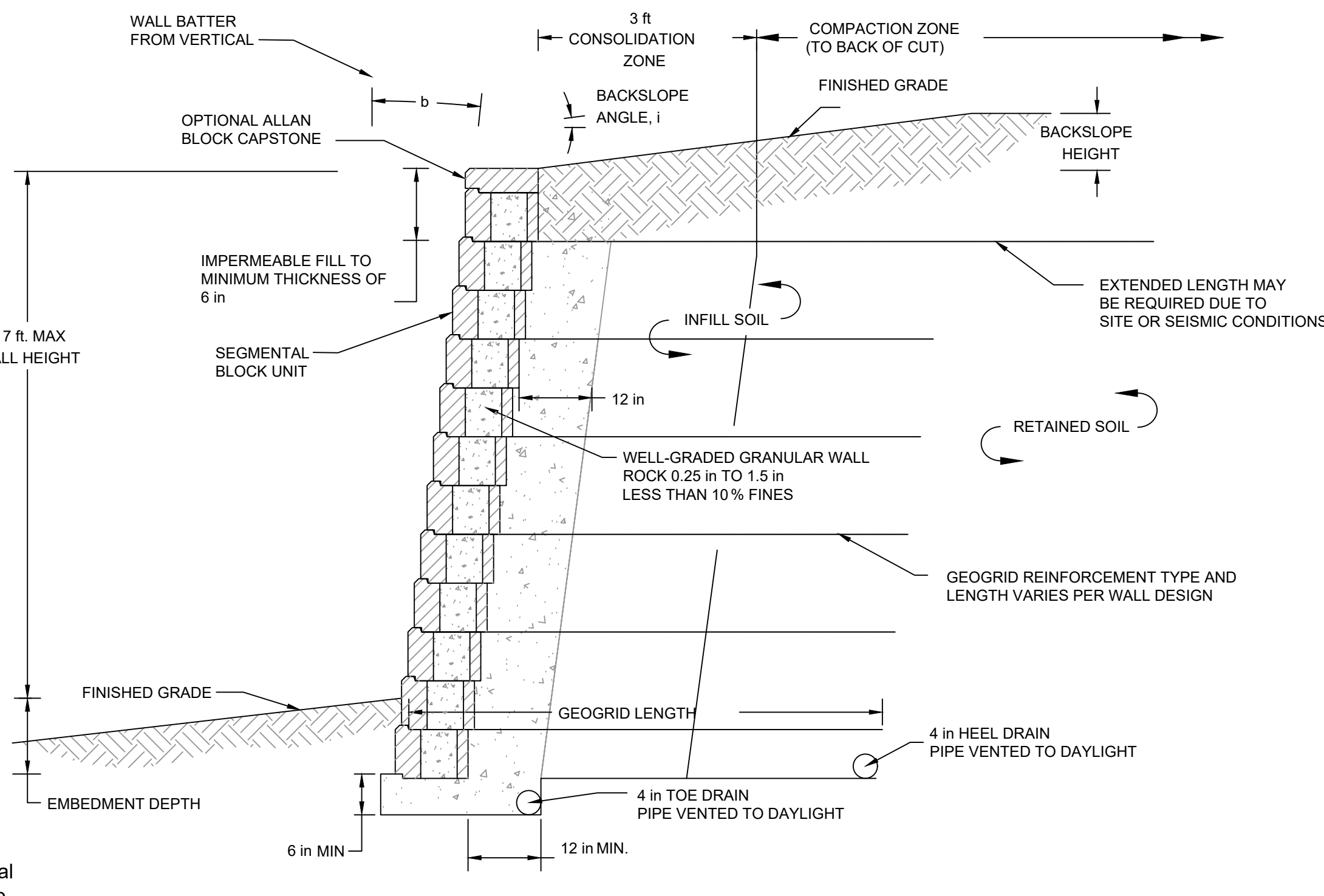
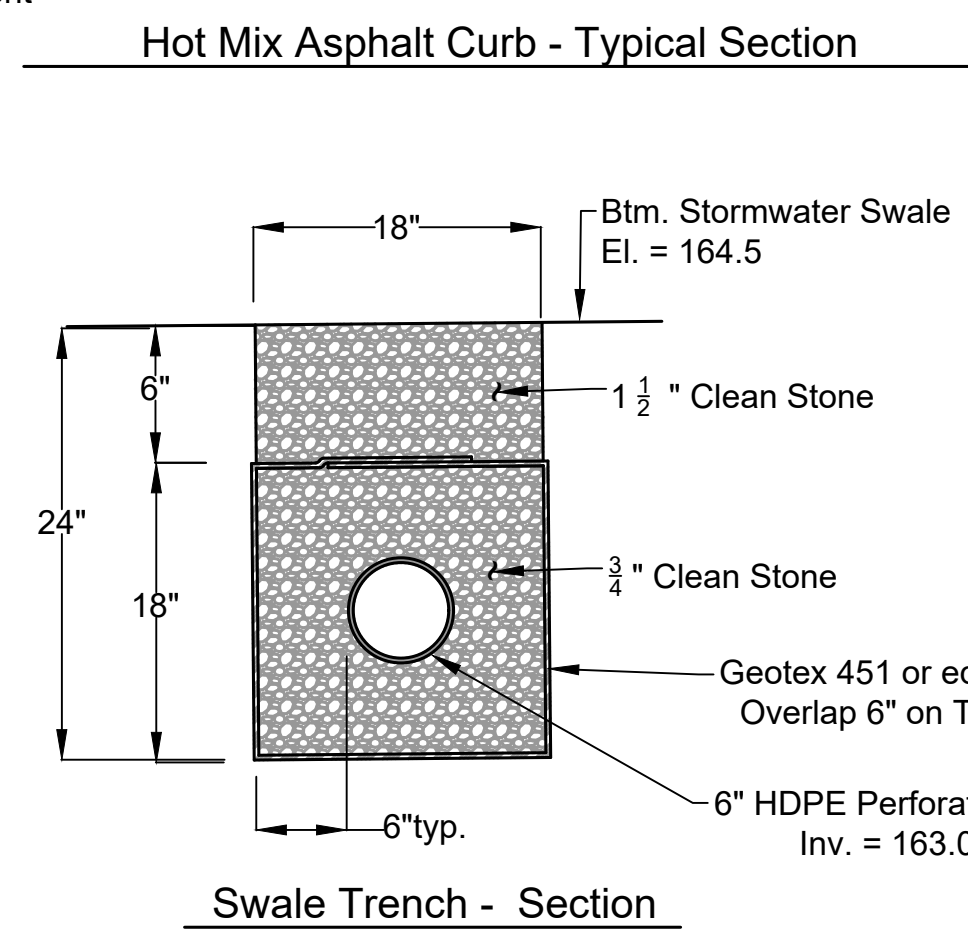
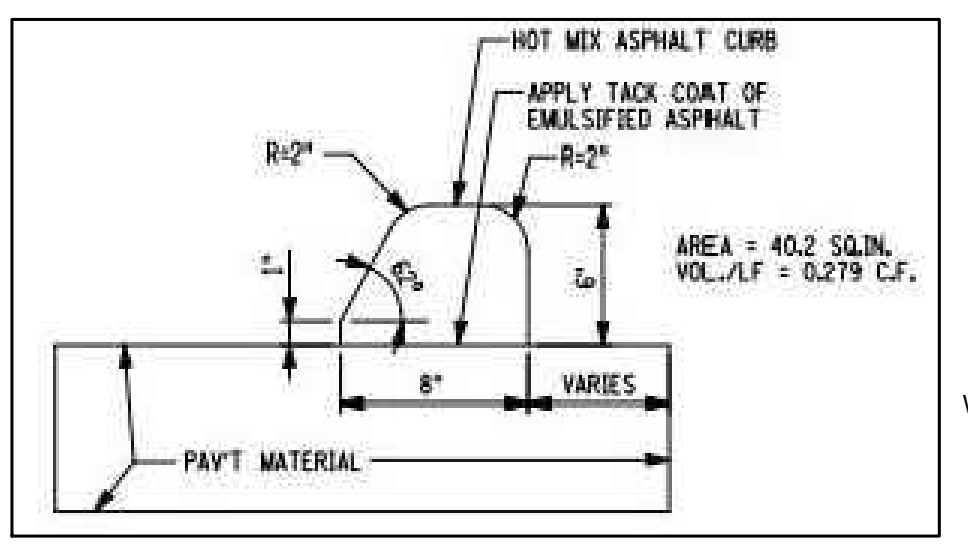
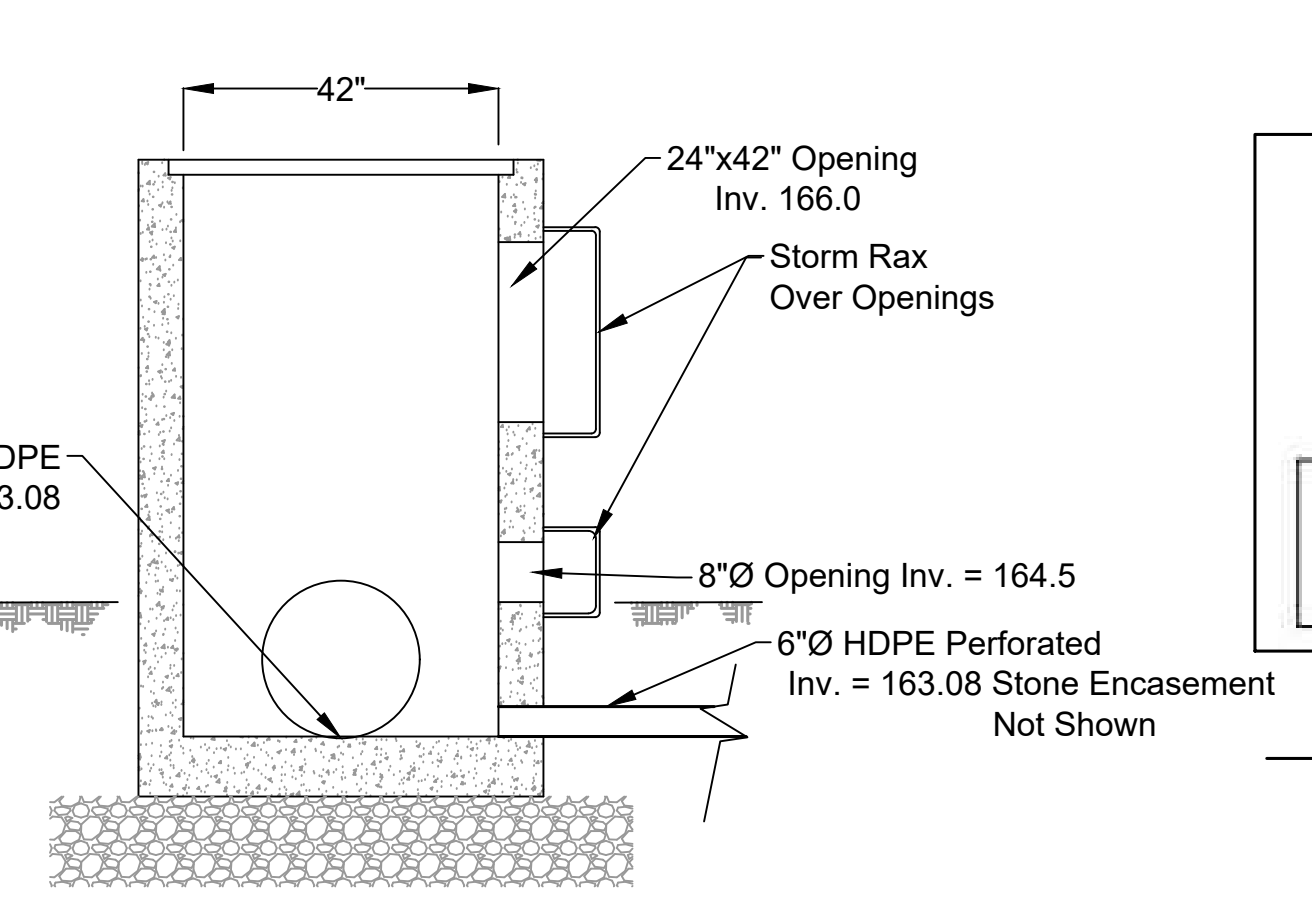
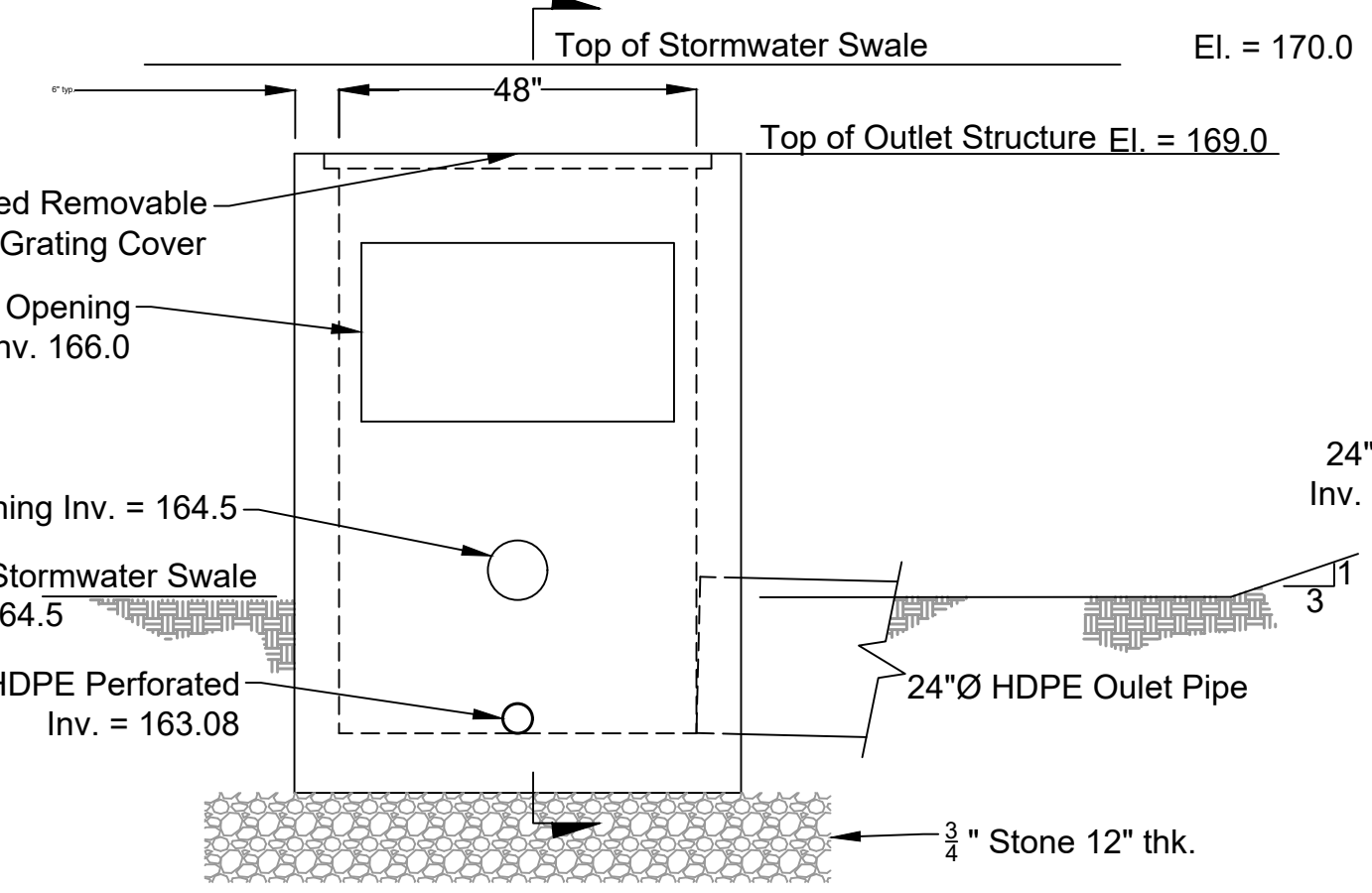
MONMOUTH COUNTY PARK SYSTEM
 BOARD OF PARK AND RECREATION COMMISSIONERS
 805 NEWMAN SPRINGS ROAD
 LINCOLN, NEW JERSEY 07738-1965
 PHONE (732) 842-4000 FAX (732) 842-3640



PAVING & DRAINAGE IMPROVEMENTS
 Big Brook Park, 521 Route 520, Marlboro, NJ
 Construction Details



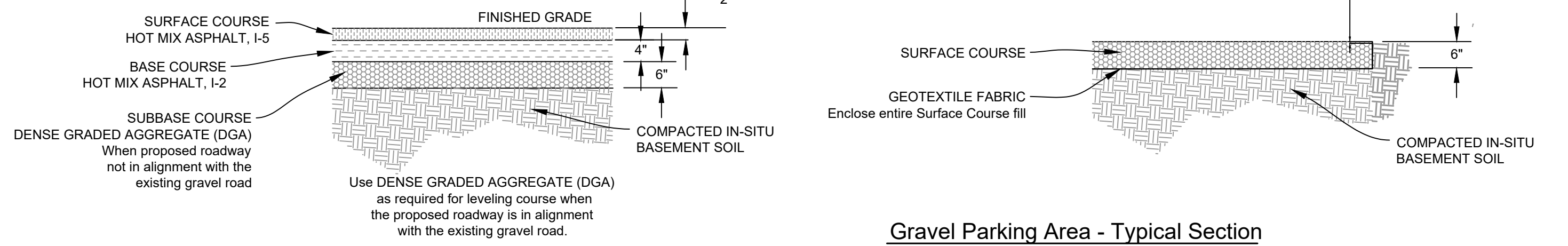
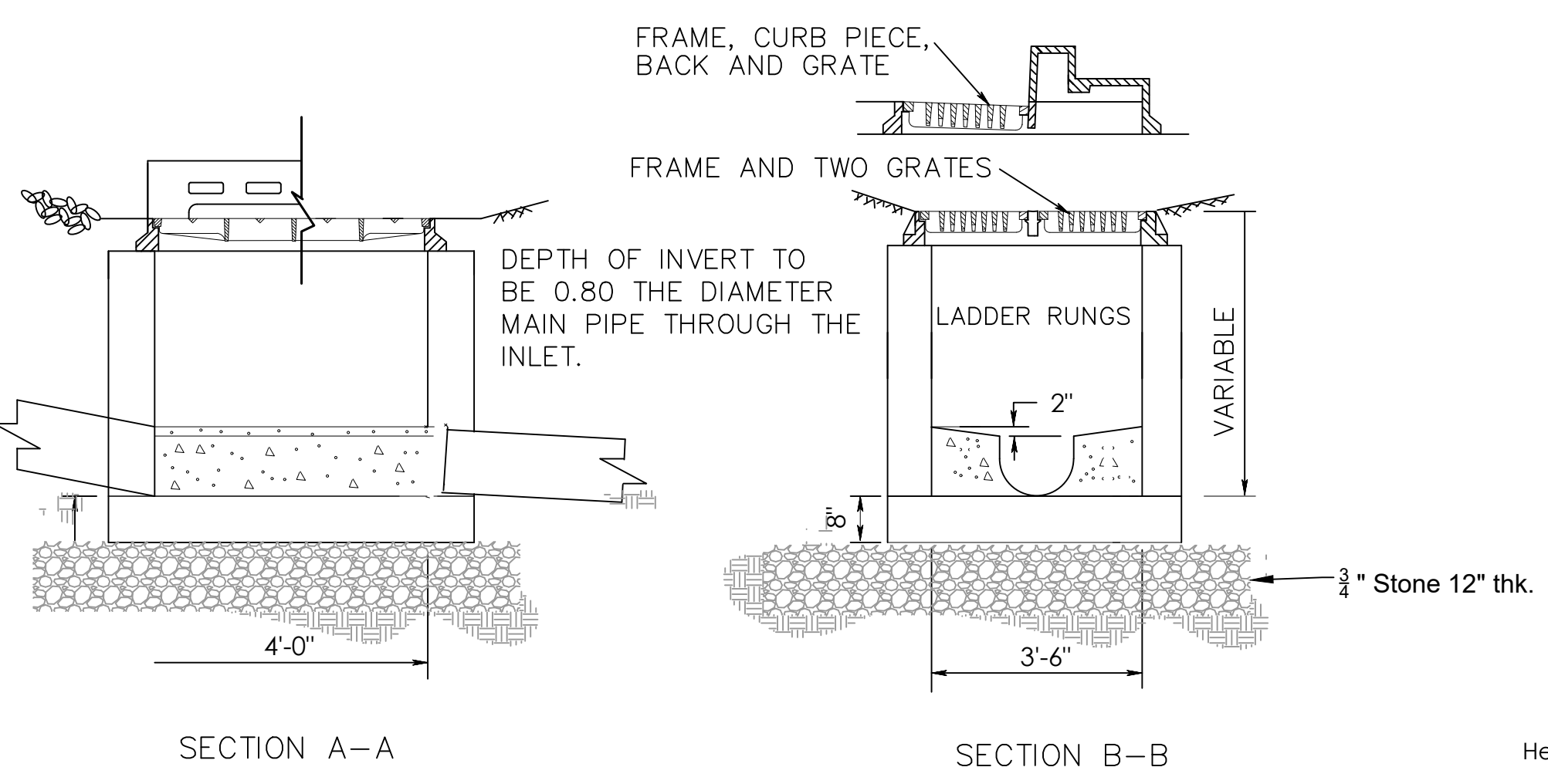
- NOTES:
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
 - FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE GRANULAR MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
 - BEDDING: GRANULAR MATERIAL COMPACTED TO 85% PROCTOR DENSITY TO THE MIDDLE 1/3 BENEATH THE PIPE INVERT. ELIMINATE ALL VOIDS BY KNIFING UNDER AND AROUND THE PIPE.
 - INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE NATIVE WELL GRADED SAND AND GRAVEL MIXTURES IN THE PIPE ZONE EXTENDING 12" ABOVE THE CROWN OF THE PIPE. BACKFILL MATERIAL SHALL BE HAND COMPACTED TO THE ENGINEERS SATISFACTION.
 - FINAL BACKFILL: SELECT SOIL OR SUITABLE ON-SITE EXCAVATED MATERIAL CAN BE USED AND COMPACTED TO 90% PROCTOR DENSITY IN ASPHALT PAVEMENT AREAS AND LIGHTLY COMPACTED IN TURF AREAS.
 - TOP SOIL: TOPSOIL SHALL BE 6" MINIMUM AND CONSISTENT WITH THE ADJACENT EXISTING MATERIAL IN TURF AREAS.



Segmental Block Retaining Wall - Typical Section
 The Contractor shall submit Shop Drawings and Bearing Calculations prepared by a Professional Engineer in the State of New Jersey
 The Segmental Block Retaining Wall may be stepped as grade permit

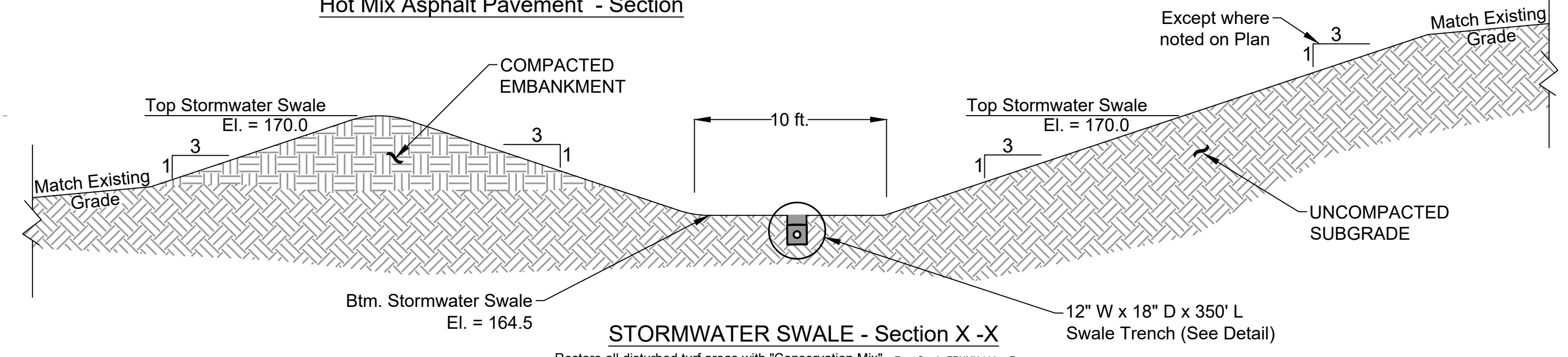
- NOTES:
- THIS INLET MAY BE CONSTRUCTED OF BRICK, CONCRETE OR CONCRETE BLOCK
- BOTTOMS SHALL BE DISHED AND SLOPED TOWARDS THE OUTLET PIPE AT A RATE OF GRADE OF 3/4" PER FOOT.

PLAN - TYPE B/E INLETS



Hot Mix Asphalt Pavement - Section

Gravel Parking Area - Typical Section



STORMWATER SWALE - Section X-X
 Restore all disturbed turf areas with "Conservation Mix" - Ernst Seed - ERNMX 114 or Eq.
 Establish bottom of swale area with "Basin Bottom Mix" - Pinelands Nursery - ZMIX BASBO or Eq.
 Establish interior slopes of swale area with "Basin Slope Mix" - Pinelands Nursery - ZMIX BASSE or Eq.
 Protect all seeded disturbed turf areas with Erosion Control Blanket - North American Green - 5150 or Eq.



REV	DATE	BY
1	12-07-22	JM
Revised per F.S.C.D.		
11/21/22 Review Letter		

THESE DRAWINGS, SPECIFICATIONS AND NOTES ARE THE PROPERTY OF THE MONMOUTH COUNTY PARK SYSTEM. NO PART THEREOF SHALL BE COPIED OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF THE COUNTY ENGINEER. THE USER SHALL BE RESPONSIBLE AND LIABLE FOR PROBLEMS WHICH MAY BE ENCOUNTERED IN FOLLOWING THESE DRAWINGS. THE COUNTY ENGINEER AND DESIGN PROFESSIONALS SHALL NOT BE RESPONSIBLE FOR PROBLEMS WHICH MAY BE ENCOUNTERED IN FOLLOWING THESE DRAWINGS. THE COUNTY ENGINEER AND DESIGN PROFESSIONALS SHALL NOT BE RESPONSIBLE FOR PROBLEMS WHICH MAY BE ENCOUNTERED IN FOLLOWING THESE DRAWINGS.

MONMOUTH COUNTY PARK SYSTEM
BOARD OF PARK AND RECREATION COMMISSIONERS
 805 NEWMAN SPRINGS ROAD
 LINCOLN, NEW JERSEY 07738-1965
 PHONE (732) 842-4000 FAX (732) 842-3640

James Mowczon N.J. Professional Engineer License No. 32486 Date



PAVING & DRAINAGE IMPROVEMENTS
Big Brook Park, 521 Route 520, Marlboro, NJ
Erosion & Sediment Control Plan

DATE 11-10-22 SCALE 1in = 40ft PROJECT # DRAWN JM CHECKED

Silt Fence	
Limit of Soil Disturbance	
Drainage Sub-Basin	
Construction Entrance	
Stormwater Inlet Filter	

SOIL EROSION AND SEDIMENT CONTROL NOTES

- 1. The Freehold Soil Conservation District shall be notified forty-eight (48) hours in advance of any land disturbing activity.
2. All Soil Erosion and Sediment Control practices are to be installed prior to any major soil disturbance, or in their proper sequence, and maintained until permanent protection is established.
3. Any changes to the Certified Soil Erosion and Sediment Control Plans will require the submission of revised Soil Erosion and Sediment Control Plans to the District for re-certification.
4. N.J.S.A 4:24-39 et. Seq. requires that no Certificates of Occupancy be issued before the District determines that a project or portion thereof is in full compliance with the Certified Plan and Standards for Soil Erosion and Sediment Control in New Jersey and a Report of Compliance has been issued.
5. Any disturbed areas that will be left exposed more than sixty (60) days, and not subject to construction traffic, will immediately receive a temporary seeding.
6. Immediately following initial disturbance or rough grading, all critical areas subject to erosion (i.e. soil stockpiles, steep slopes and roadway embankments) will receive temporary seeding in combination with a straw mulch or a suitable equivalent, and a mulch anchor, in accordance with State Standards.
7. A sub-base course will be applied immediately following rough grading and installation of improvements to stabilize streets, roads, driveways, and parking areas.
8. The Standard for Stabilized Construction Access requires the installation of a pad of clean crushed stone at points where traffic will be accessing the construction site.
9. All soil washed, dropped, spilled, or tracked outside the limit of disturbance or onto public right-of-ways will be removed immediately.
10. Permanent vegetation is to be seeded or sodded on all exposed areas within ten (10) days after final grading.
11. At the time that site preparation for permanent vegetative stabilization is going to be accomplished, any soil that will not provide a suitable environment to support adequate vegetative ground cover shall be removed or treated in such a way that it will permanently adjust the soil conditions and render it suitable for vegetative ground cover.
12. In accordance with the Standard for Management of High Acid Producing Soils, any soil having a pH of 4 or less or containing iron sulfides shall be ultimately placed or buried with limestone applied at the rate of 10 tons /acre (or 450 lbs/1,000 sq ft of surface area) and covered with a minimum of 12" of settled soil with a pH of 5 or more, or 24" where trees and shrubs are to be planted.
13. Conduit Outlet Protection must be installed at all required outfalls prior to the drainage system becoming operational.
14. Unfiltered dewatering is not permitted. Necessary precautions must be taken during all dewatering operations to minimize sediment transfer.
15. Should the control of dust at the site be necessary, the site will be sprinkled until the surface is wet, temporary vegetative cover shall be established or mulch shall be applied as required by the Standard for Dust Control.
16. Stockpile and staging locations established in the field shall be placed within the limit of disturbance according to the certified plan.
17. All soil stockpiles are to be temporarily stabilized in accordance with Soil Erosion and Sediment Control note #6.
18. The property owner shall be responsible for any erosion or sedimentation that may occur below stormwater outfalls or offsite as a result of construction of the project.

Freehold Soil Conservation District
4000Kozloski Road, Freehold, NJ 07728, (732) 683-8500, fax (732) 683-9140,
Email: info@freeholdscd.org.

CONSTRUCTION SEQUENCE

Table with 3 columns: PHASE, TIME, SEQUENCE. Lists 6 construction phases from soil erosion control to permanent stabilization, totaling 19 weeks.

SEEDING SPECIFICATIONS – TEMPORARY

Temporary seed cover shall be the following:
Perennial ryegrass, 1.0 lbs per 1000 sf, 1000 lbs per acre
SEEDING DATES 3/1-5/15, 8/15 -10/1

SEEDING SPECIFICATIONS – PERMANENT

Table with 3 columns: Permanent seed cover, lbs. per acre, lbs. per 1000sf. Lists various grass blends like Fine Fescue Blend, Hard Fescue, etc.

SEEDING DATES 3/1-4/30, 8/15 -10/15

TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

Definition: Establishment of temporary vegetative cover on soils exposed for periods of two to 6 months which are not being graded, not under active construction or not scheduled for permanent seeding within 60 days.
Purpose: To temporarily stabilize the soil and reduce damage from wind and water erosion until permanent stabilization is accomplished.
Where Applicable: On exposed soils that have the potential for causing off-site environmental damage.
Methods and Materials: 1. Site Preparation, 2. Seedbed Preparation.

STANDARD FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

Definition: Establishment of permanent vegetative cover on exposed soils where perennial vegetation is needed for long-term protection.
Purpose: To permanently stabilize the soil, ensuring conservation of soil and water, and to enhance the environment.
Where Applicable: On exposed soils that have a potential for causing off-site environmental damage.
Methods and Materials: 1. Site Preparation, 2. Seedbed Preparation.

Mulching for temporary and permanent seeding

Mulching is required on all seeding. Mulch will protect against erosion before grass is established and will promote faster and earlier establishment. The existence of vegetation sufficient to control soil erosion shall 4-2 Standards for Soil Erosion and Sediment Control in New Jersey January 2014 be deemed compliance with this mulching requirement.

- A. Straw or Hay. Unrotted small grain straw, hay free of seeds, to be applied at the rate of 1-1/2 to 2 tons per acre (70 to 90 pounds per 1,000 square feet), except that where a crimper is used instead of a liquid mulch-binder (tackifying or adhesive agent), the rate of application is 3 tons per acre.
Application - Spread mulch uniformly by hand or mechanically so that at least 85% of the soil surface is covered.
Anchoring shall be accomplished immediately after placement to minimize loss by wind or water.
1. Peg and Twine. Drive 8 to 10 inch wooden pegs to within 2 to 3 inches of the soil surface every 4 feet in all directions.
2. Mulch Nettings - Staple paper, jute, cotton, or plastic nettings to the soil surface.
3. Crimper (mulch anchoring coulters tool) - A tractor-drawn implement, somewhat like a disc harrow, especially designed to push or cut some of the broadcast long fiber mulch 3 to 4 inches into the soil so as to anchor it and leave part standing upright.
4. Liquid Mulch-Binders - May be used to anchor salt hay, hay or straw mulch.
a. Applications should be heavier at edges where wind may catch the mulch, in valleys, and at crests of banks.
b. Use one of the following:

(1) Organic and Vegetable Based Binders - Naturally occurring, powder-based, hydrophilic materials when mixed with water formulates a gel and when applied to mulch under satisfactory curing conditions will form membraned networks of insoluble polymers.
(2) Synthetic Binders - High polymer synthetic emulsion, miscible with water when diluted and, following application of mulch, drying and curing, shall no longer be soluble or dispersible in water.

B. Wood-fiber or paper-fiber mulch - shall be made from wood, plant fibers or paper containing no growth or germination inhibiting materials, used at the rate of 1,500 pounds per acre (or as recommended by the product manufacturer) and may be applied by a hydroseeder.
C. Pelletized mulch - compressed and extruded paper and/or wood fiber product, which may contain co-polymers, tackifiers, fertilizers, and coloring agents.
D. High acid producing soil. Soils having a pH of 4 or less or containing iron sulfide shall be covered with a minimum of 12 inches of soil having a pH of 5 or more before initiating seedbed preparation.

Standard for stabilization with mulch only:

- Methods and Materials
1. Site Preparation
A. Grade as needed and feasible to permit the use of conventional equipment for seedbed preparation, seeding, mulch application, and mulch anchoring.
B. Install needed erosion control practices or facilities such as diversions, grade stabilization structures, channel stabilization measures, sediment basins, and waterways.
2. Protective Materials
A. Unrotted small-grain straw, at 2.0 to 2.5 tons per acre, is spread uniformly at 90 to 115 pounds per 1,000 square feet and anchored with a mulch anchoring tool, liquid mulch binders, or netting tie down.
B. Mulch netting, such as paper jute, excelsior, cotton, or plastic, may be used.
C. Synthetic or organic soil stabilizers may be used under suitable conditions and in quantities as recommended by the manufacturer.
D. Wood-fiber or paper-fiber mulch at the rate of 1,500 pounds per acre (or according to the manufacturer's requirements) may be applied by a hydroseeder.
E. Gravel, crushed stone, or slag at the rate of 9 cubic yards per 1,000 sq. ft. applied uniformly to a minimum depth of 3 inches may be used.
3. Mulch Anchoring - should be accomplished immediately after placement of hay



Revision table with columns REV, DATE, BY. Shows revision 1 on 12-07-22 by JM.

THESE DRAWINGS, SPECIFICATIONS AND DESIGN ARE THE PROPERTY OF THE MONMOUTH COUNTY PARK SYSTEM. NO PART THEREOF SHALL BE COPIED OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF THE BOARD OF PARK AND RECREATION COMMISSIONERS.

MONMOUTH COUNTY PARK SYSTEM
BOARD OF PARK AND RECREATION COMMISSIONERS
BOB NEWMAN SPRINGS ROAD
LINCOLN, NEW JERSEY 07738-1965
PHONE (732) 842-4000 FAX (732) 842-3640

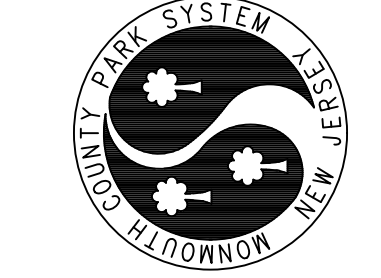


PAVING & DRAINAGE IMPROVEMENTS
Big Brook Park, 521 Route 520, Marlboro, NJ
Erosion and Sediment Control Notes
DATE 11-10-22 SCALE N.T.S. PROJECT # DRAWN JM CHECKED

THESE DRAWINGS, SPECIFICATIONS AND CONDITIONS SHALL BE COPIED OR USED WITH ANY OTHER WORK OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED. THE USER SHALL BE RESPONSIBLE AND LIABLE FOR PROBLEMS WHICH ARISE FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS AND DESIGN. THE USER SHALL BE RESPONSIBLE AND LIABLE FOR THE CONSEQUENCES OF ANY CHANGES MADE TO THESE PLANS, SPECIFICATIONS AND DESIGN WITHOUT THE WRITTEN CONSENT OF THE DESIGN PROFESSIONAL'S OFFICE. THE DESIGN PROFESSIONAL'S OFFICE SHALL NOT BE RESPONSIBLE FOR ANY CONSEQUENCES, DAMAGES OR LOSSES WHICH MAY BE INCURRED.

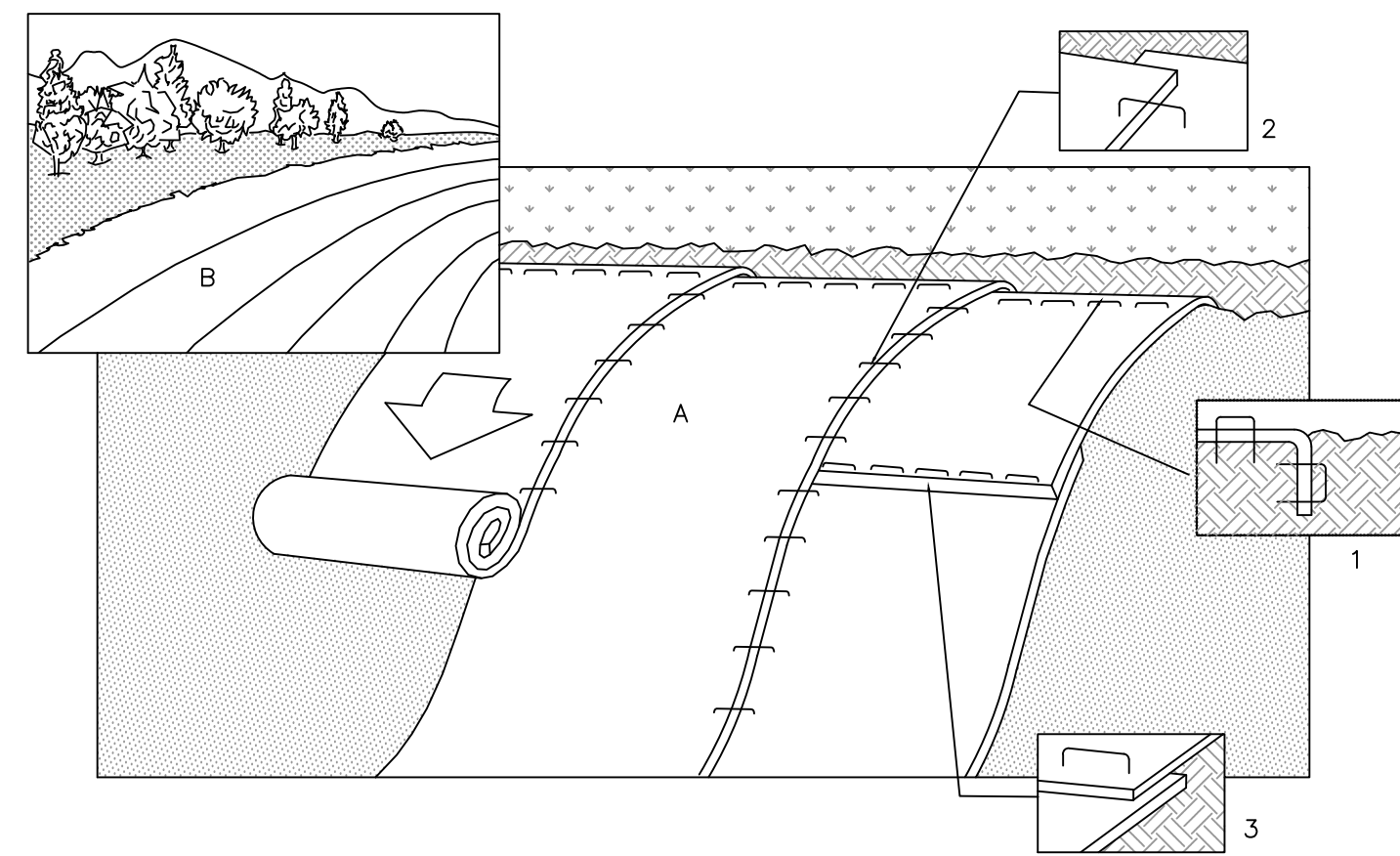
MONMOUTH COUNTY PARK SYSTEM
 BOARD OF PARK AND RECREATION COMMISSIONERS
 805 NEWMAN SPRINGS ROAD
 LINCROFT, NEW JERSEY 07738-1965
 PHONE (732) 842-4000 FAX (732) 842-3640

James Nowczan N.J. Professional Engineer License No. 32486 Date



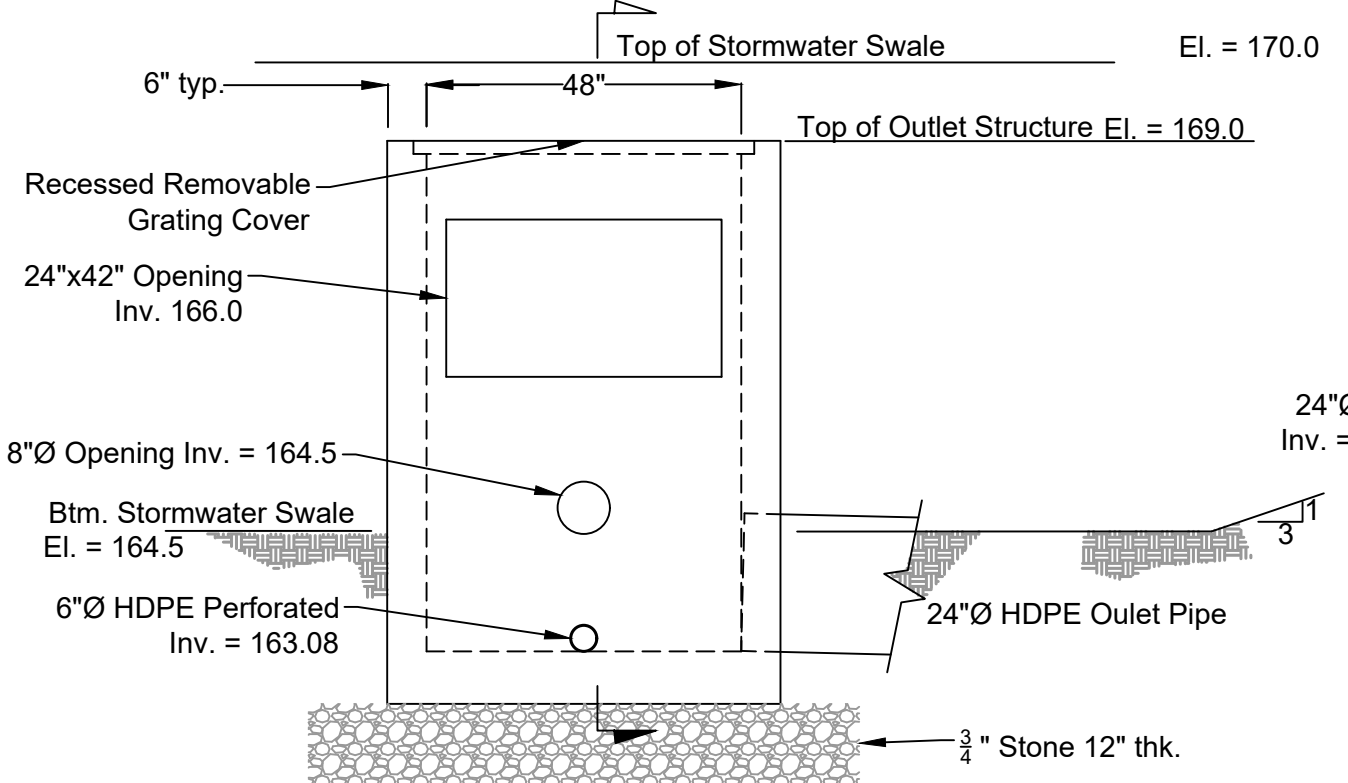
PAVING & DRAINAGE IMPROVEMENTS
 Big Brook Park, 521 Route 520, Marlboro, NJ
 Erosion and Sediment Control Detail

DATE 11-10-22 SCALE N.T.S. PROJECT # DRAWN JM CHECKED

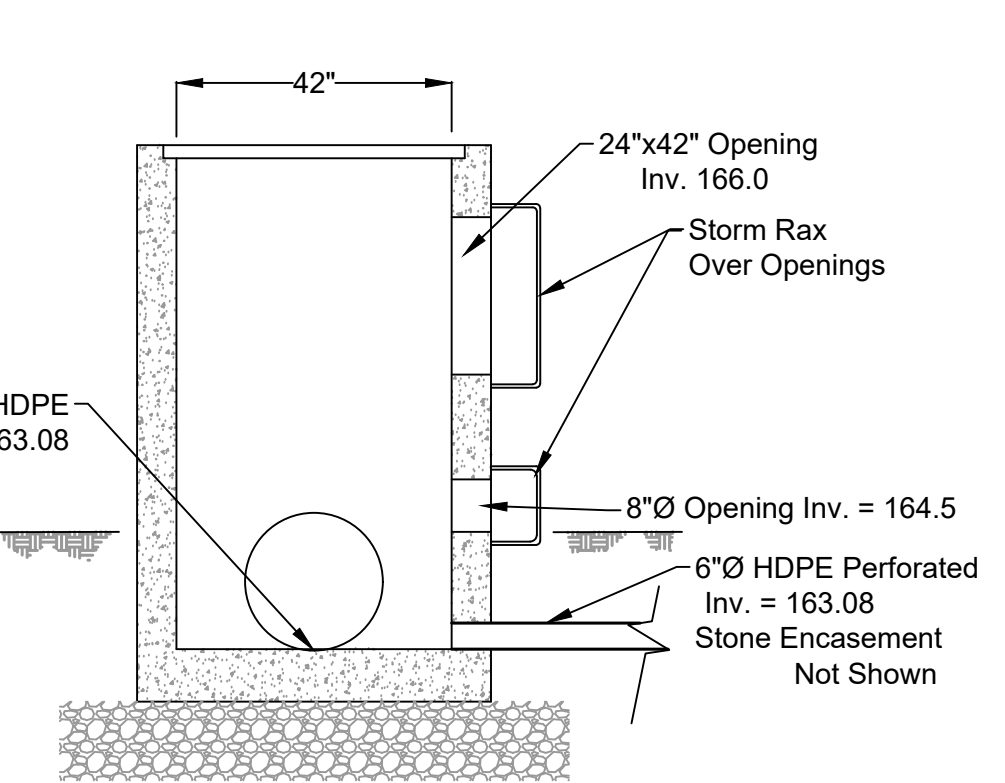


- FOR SLOPES LESS THAN 3:1 - USE S75 EROSION CONTROL BLANKETS BY N.A. GREEN OR APPROVED EQUAL FOR SLOPES 3:1 TO 2:1 - USE S150 EROSION CONTROL BLANKETS BY N.A. GREEN OR APPROVED EQUAL
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER & SEED.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH (1). BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP (2).
- WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART (3).

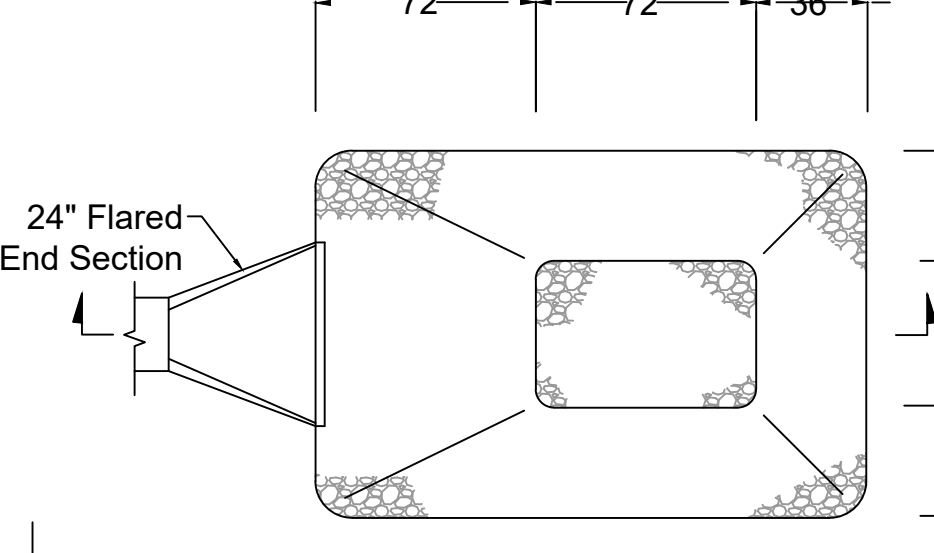
Rolled Erosion Control Blanket
 Installed over All Disturbed Turf Areas
 n.t.s.



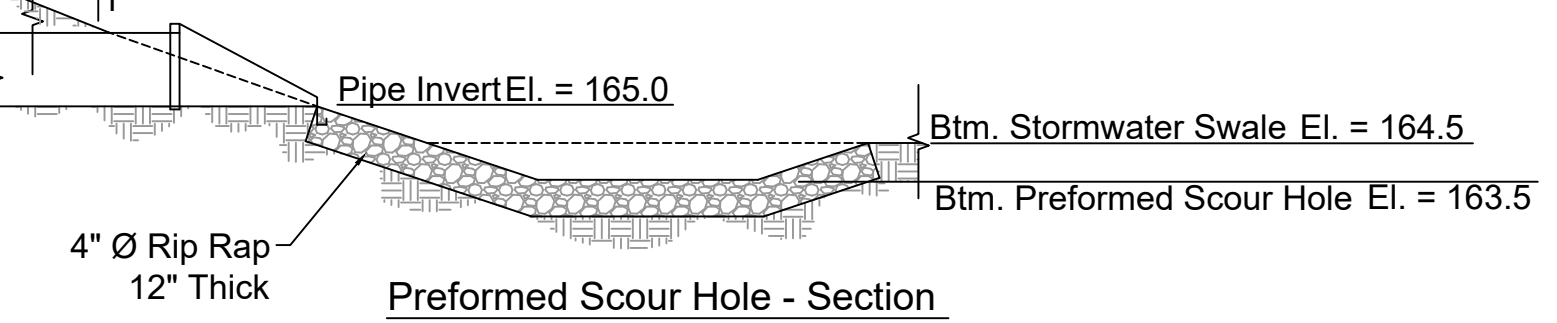
Outlet Structure - Elevation
 Storm Rax covering 8"Ø and 42"x24" not shown



Outlet Structure - Section



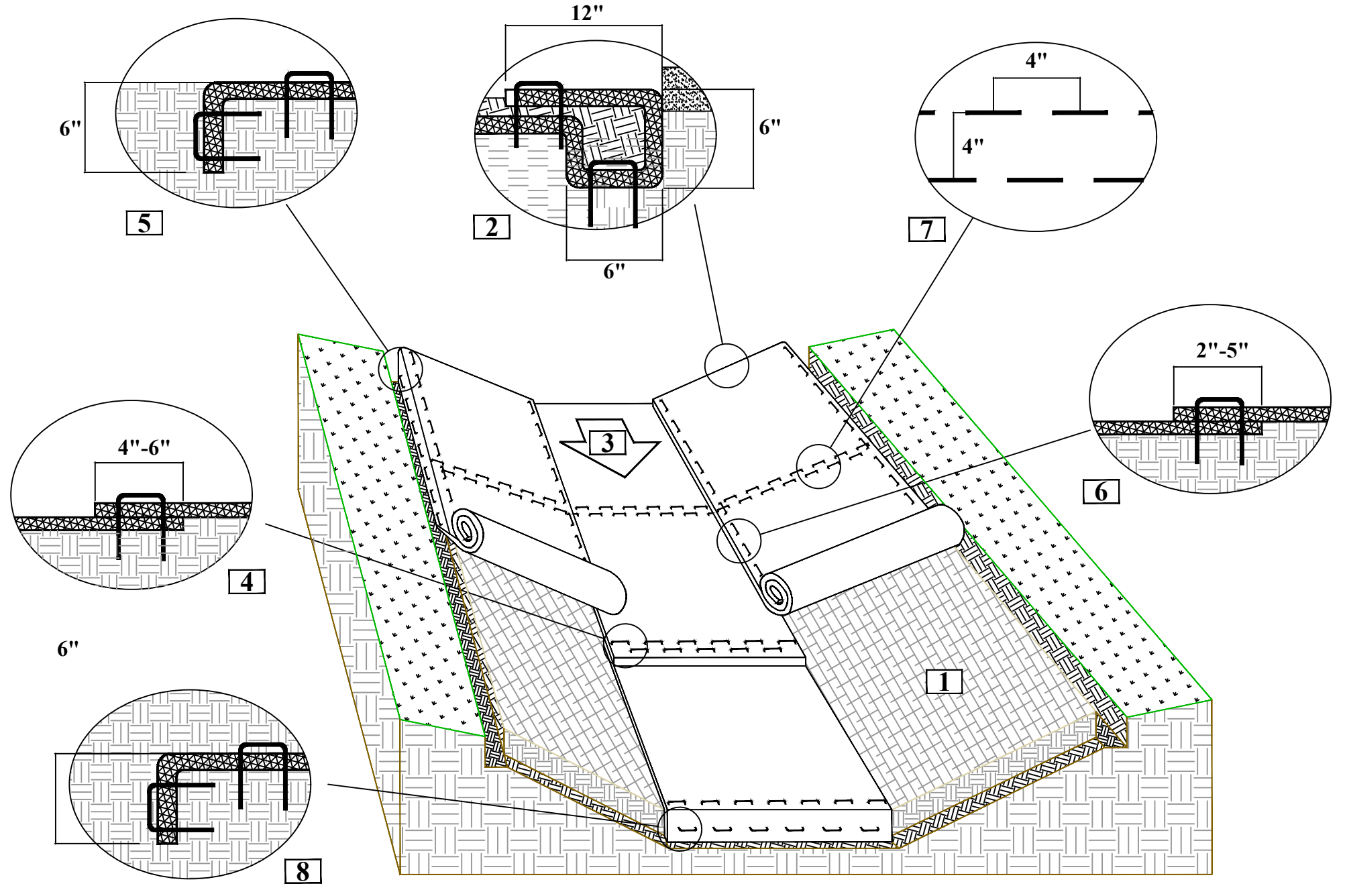
Preformed Scour Hole - Plan



Preformed Scour Hole - Section

Notes

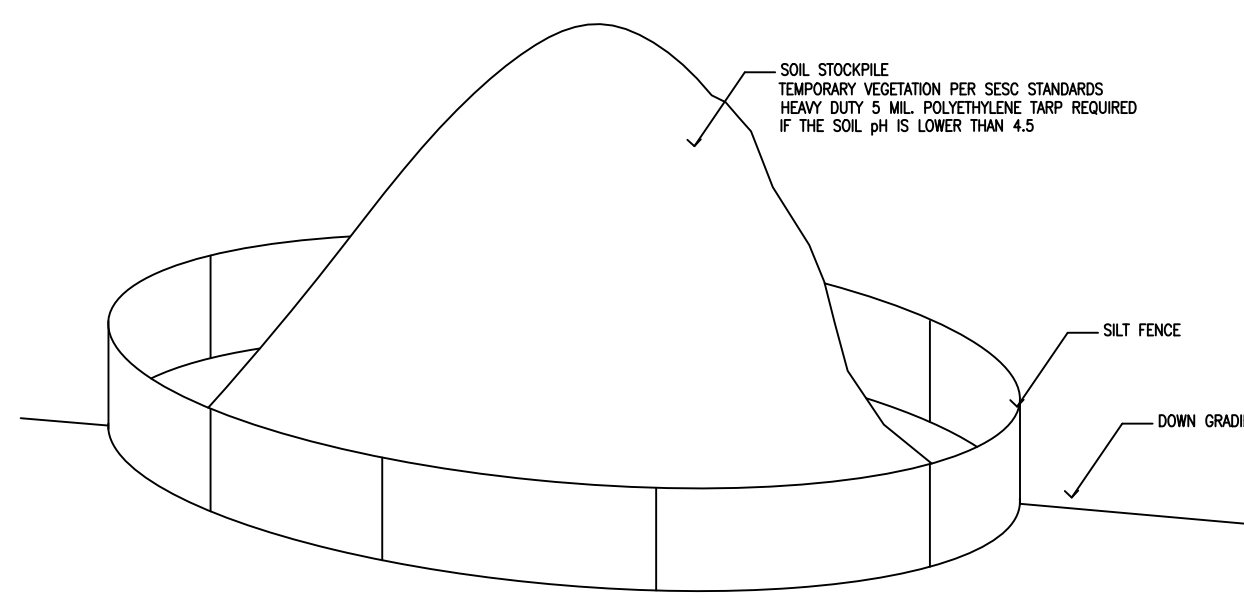
- Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.
- Begin at the top of the channel by anchoring the RECPs in a 6"(15cm) deep X 6"(15cm) wide trench with approximately 12"(30cm) of RECPs extended beyond the up-slope portion of the trench. Use ShoreMax mat at the channel/culvert outlet as supplemental scour protection as needed. Anchor the RECPs with a row of staples/stakes approximately 12"(30cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12"(30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12" apart across the width of the RECPs.
- Roll center RECPs in direction of water flow in bottom of channel. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
- Place consecutive RECPs end-over-end (Shingle style) with a 4"-6" overlap. Use a double row of staples staggered 4" apart and 4" on center to secure RECPs.
- Full length edge of RECPs at top of side slopes must be anchored with a row of staples/stakes approximately 12"(30cm) apart in a 6"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the trench after stapling.
- Adjacent RECPs must be overlapped approximately 2"-5" (5-12.5cm) (Depending on RECPs type) and stapled.
- In high flow channel applications a staple check slot is recommended at 30 to 40 foot (9-12m) intervals. Use a double row of staples staggered 4"(10cm) apart and 4"(10cm) on center over entire width of the channel.
- The terminal end of the RECPs must be anchored with a row of staples/stakes approximately 12" (30cm) apart in a 6"(15cm) deep X 6"(15cm) wide trench. Backfill and compact the trench after stapling.



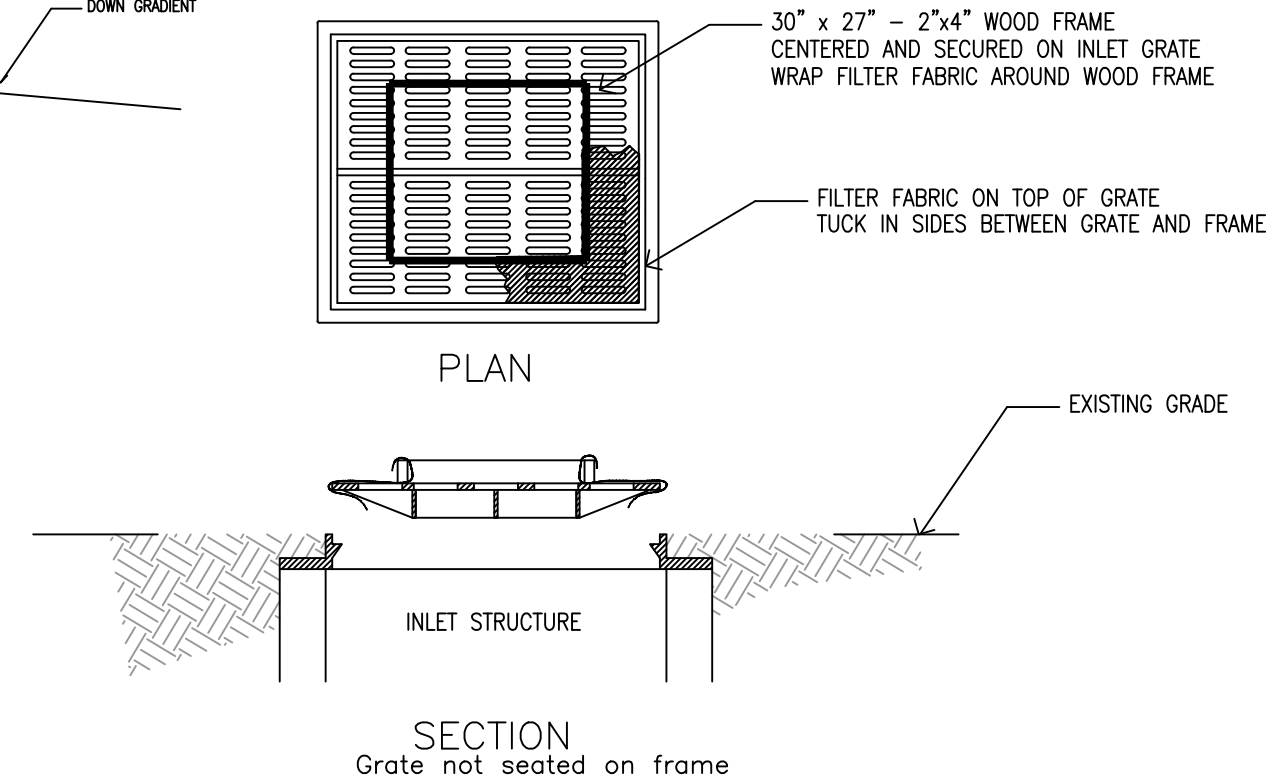
CRITICAL POINTS
 A. Overlaps and Seams
 B. Projected Water Line
 C. Channel Bottom/Side Slope Vertices

NOTES:
 *Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.
 **In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to properly secure the RECPs.

Rolled Erosion Control Protection (RECP)
 Stormwater Swale Installation SCALE: Not To Scale

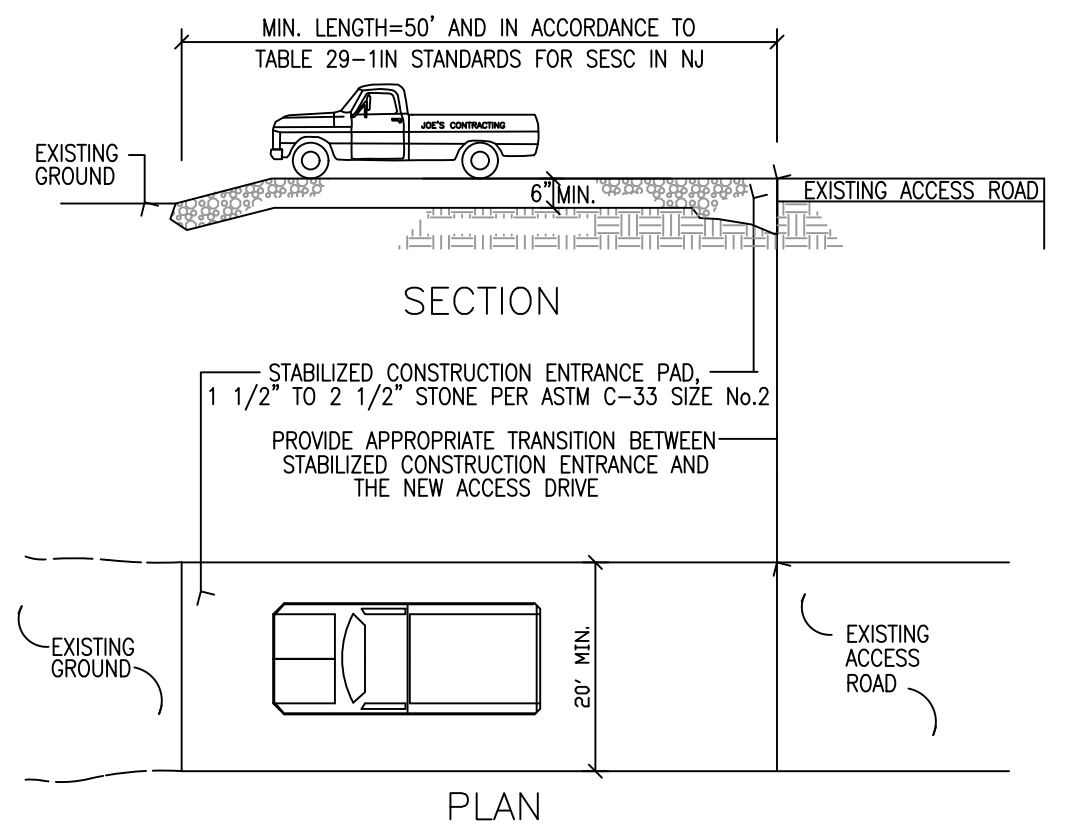


Temporary Soil Stockpile
 SCALE: Not To Scale



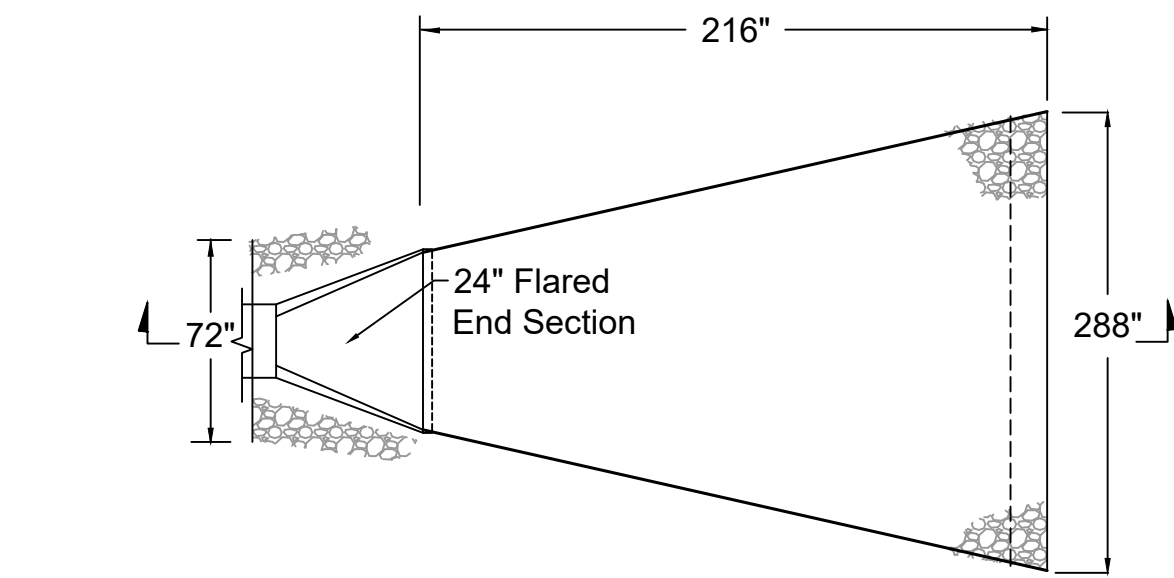
Note: Filter to remain until completion of final grading and establishment of cover. Also, periodic checks must be made after each rainfall to excavate and remove excess sediment from around inlets. Filter fabric shall be Mirafix 140N or approved equal.

Flat Grate Stormwater Inlet Filter
 SCALE: Not To Scale

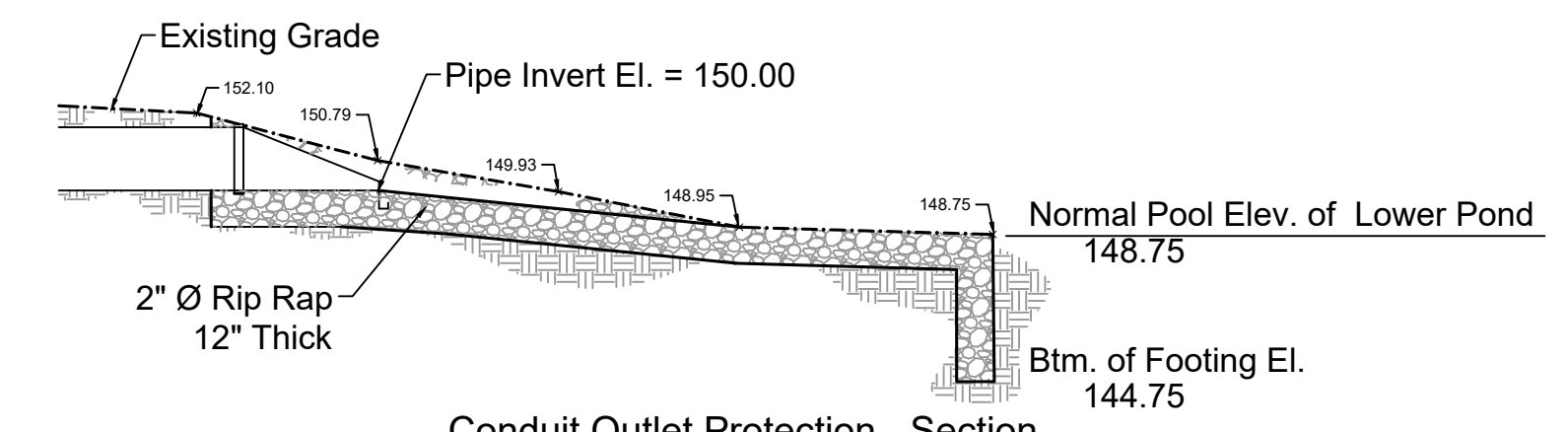


Note: Stabilized construction entrance pad shall be completely removed and the subgrade compacted per specifications, prior to installing pavement section; this includes approved fill, Soil Aggregate Subbase Course 1-5, Base Course and Surface Course.

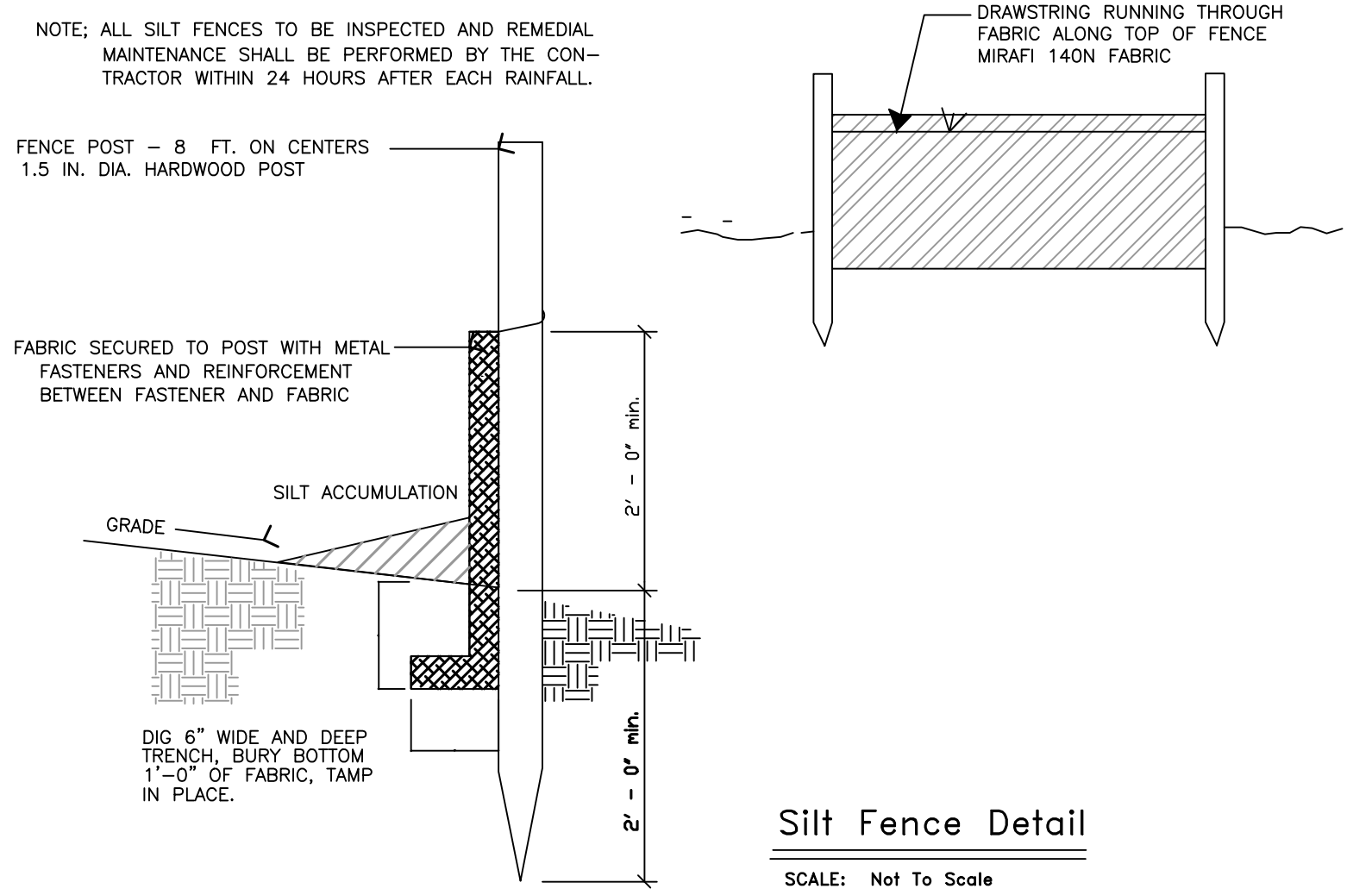
Stabilized Construction Entrance
 SCALE: Not To Scale



Conduit Outlet Protection - Plan



Conduit Outlet Protection - Section



Silt Fence Detail
 SCALE: Not To Scale