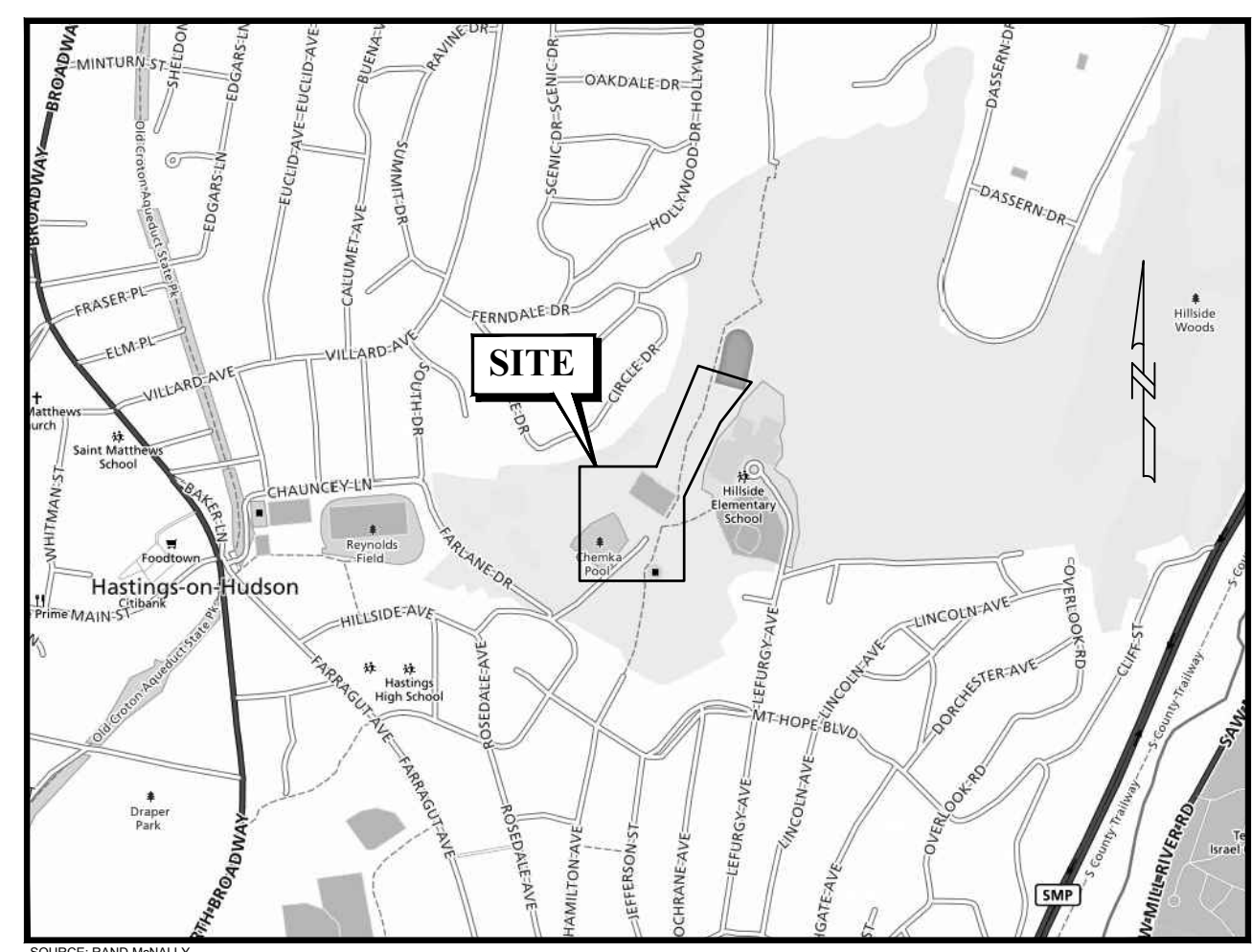


DWG. C-2  
MATCH LINE



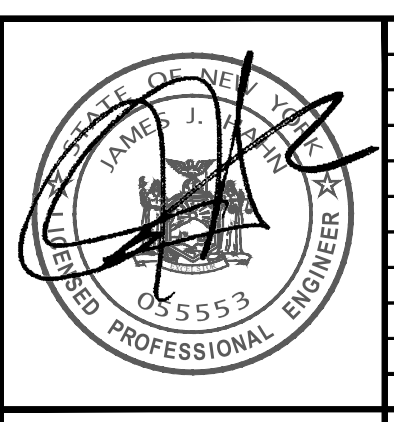
**LOCATION MAP**  
N.T.S.



- NOTES:**
- CONTRACTORS ARE REQUIRED TO VISIT THE SITE PRIOR TO SUBMITTING A BID.
  - BASE MAP INFORMATION IS BASED ON A SURVEY ENTITLED "TOPOGRAPHIC SURVEY, JULIUS CHEMKA POOL, SITUATE IN THE VILLAGE OF HASTINGS-ON-HUDSON, TOWN OF GREENBURGH, WESTCHESTER COUNTY, NEW YORK" DATED NOVEMBER 8, 2001, REVISED JANUARY 8, 2002, PREPARED BY ROLAND K. LINK, P.L.L.C.
  - EXISTING CONDITIONS AND ELEVATIONS MAY VARY FROM THOSE SHOWN HEREON. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND ELEVATIONS IN THE FIELD.

**LEGEND**

	PROP. CATCH BASIN
	PROP. DRAINAGE INLET
	PROP. STORM PIPE
	PROP. UNDERDRAIN
	PROP. CONTOUR LINE
	PROP. SPOT ELEVATION
	PROP. SILT FENCE

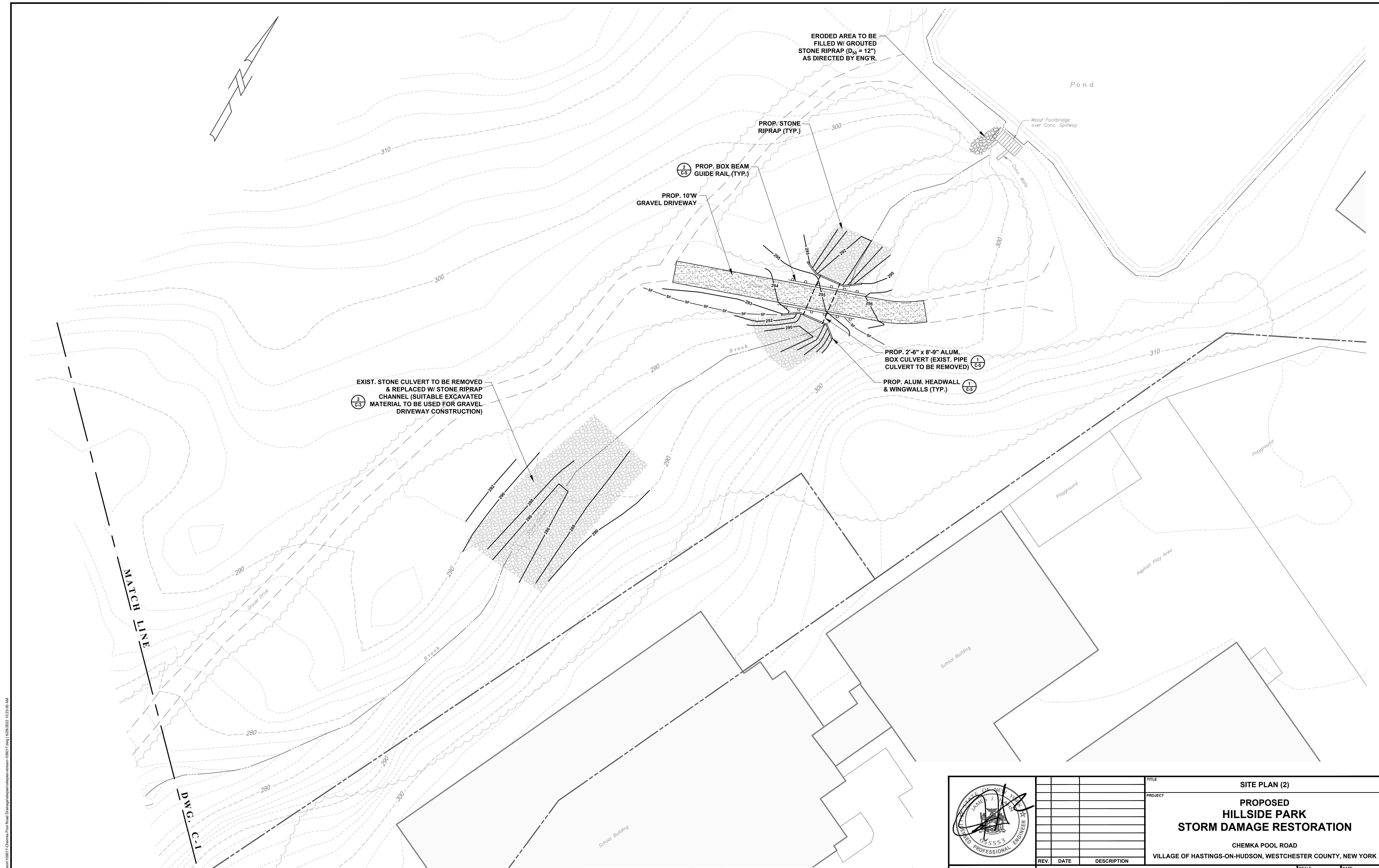


REV.	DATE	DESCRIPTION

TITLE	SITE PLAN (1)	
PROJECT	<b>PROPOSED HILLSIDE PARK STORM DAMAGE RESTORATION</b> CHEMKA POOL ROAD VILLAGE OF HASTINGS-ON-HUDSON, WESTCHESTER COUNTY, NEW YORK	
SCALE	1" = 20'	DATE
DRAWING NO.	C-1	SHEET NO.
		6/20/22
		1 of 5

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 2209 (2) OF THE NEW YORK STATE EDUCATION LAW. THIS PLAN IS NULL AND VOID FOR CONSTRUCTION PURPOSES WITHOUT THE SIGNATURE AND SEAL OF THE DESIGN ENGINEER.

**JAMES J. HAHN ENGINEERING, P.C.**  
 Putnam Business Park  
 1689 Route 22  
 Brewster, New York 10509  
 Tel: (845) 278-2220



MATCH LINE

DWG. C-1

EXIST. STONE CULVERT TO BE REMOVED & REPLACED W/ STONE RIPRAP CHANNEL (SUITABLE EXCAVATED MATERIAL TO BE USED FOR GRAVEL DRIVEWAY CONSTRUCTION)

ERODED AREA TO BE FILLED W/ GROUDED STONE RIPRAP (D<sub>50</sub> = 12") AS DIRECTED BY ENG'R.

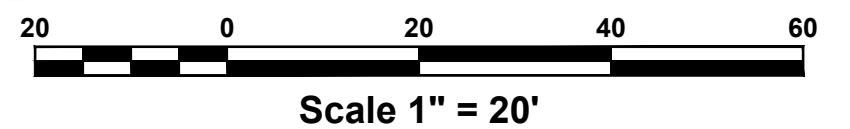
PROP. STONE RIPRAP (TYP.)

PROP. BOX BEAM GUIDE RAIL (TYP.)

PROP. 10'W GRAVEL DRIVEWAY

PROP. 2'-8" x 8'-9" ALUM. BOX CULVERT (EXIST. PIPE CULVERT TO BE REMOVED)

PROP. ALUM. HEADWALL & WINGWALLS (TYP.)



	TITLE	SITE PLAN (2)	
	PROJECT	<b>PROPOSED HILLSIDE PARK STORM DAMAGE RESTORATION</b> CHEMKA POOL ROAD VILLAGE OF HASTINGS-ON-HUDSON, WESTCHESTER COUNTY, NEW YORK	
<small>UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DRAWING IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW. THIS PLAN IS NULL AND VOID FOR CONSTRUCTION PURPOSES WITHOUT THE SIGNATURE AND SEAL OF THE DESIGN ENGINEER.</small>	REV.	DATE	DESCRIPTION
	Putnam Business Park 1689 Route 22 Brewster, New York 10509 Tel: (845) 279-2220		SCALE 1" = 20' DATE 6/20/22 SHEET NO. <b>C-2</b>
			2 of 5

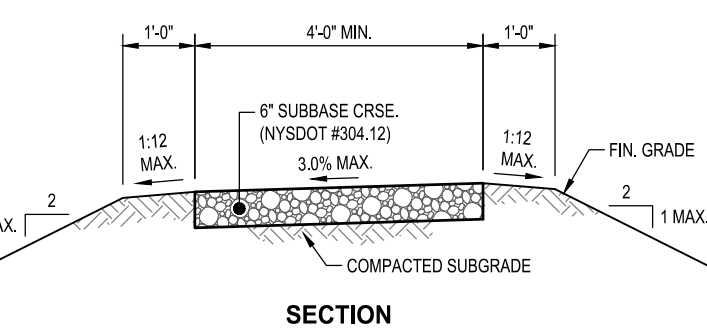
H:\Hastings-on-Hudson\09017\Chemka Pool Road Drawings\plan\hillside-storm-09017.dwg [6/20/22 10:23:00 AM]

GENERAL NOTES

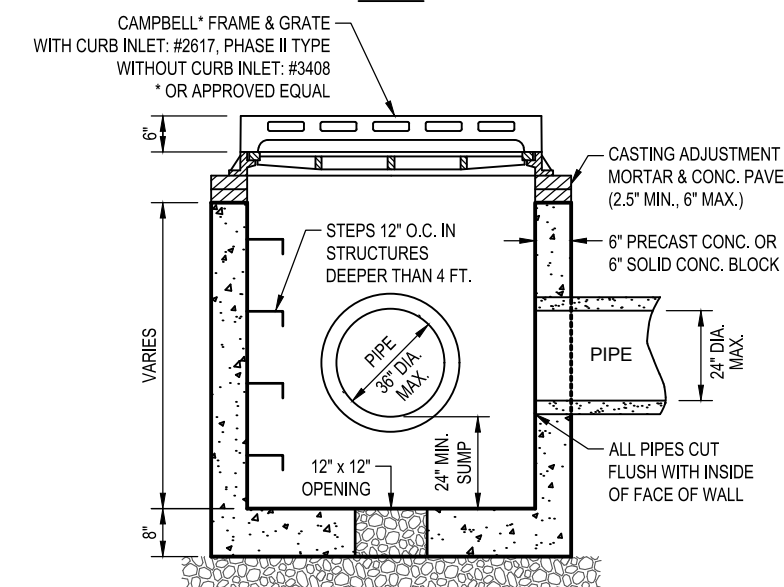
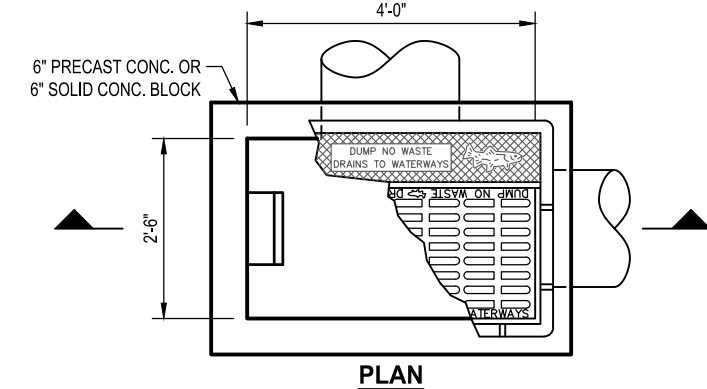
- All work and materials shall be in accordance with these plans, specifications, any revisions thereto, and the rules and regulations of the Village of Hastings-on-Hudson.
- The subsurface information shown hereon is not guaranteed as to accuracy or completeness. The Contractor shall verify the location of all existing utility lines whether in public right-of-way, in easements, or in private property prior to starting any excavation and shall be responsible for the same. The Contractor shall be responsible for contacting the Underground Facilities Protective Organization, pursuant to N.Y.S. Law, 16 NYCRR Code 753.
- The Contractor shall be responsible for the relocation of any utility service line or valve which is in interference with the proposed work.
- Existing trees shall be preserved and protected wherever possible and shall only be removed with the approval of the Engineer. Tree roots shall be avoided wherever possible. Where tree roots cannot be avoided, they shall be cut cleanly. Tree roots shall be kept moist while trenches are open.
- The Contractor shall verify all existing and proposed elevations in the field.
- The maintenance and protection of traffic schemes, both pedestrian and vehicular, shall be the responsibility of the Contractor. Access to all commercial, institutional and residential parking facilities shall be maintained at all times. A safe means of pedestrian access to and from all points within the contract limit shall be provided. The Contractor must submit traffic maintenance and staging schemes in writing to the Engineer for approval. All traffic maintenance devices, including, but not limited to, temporary signs, barricades, steel plates, lights and warning signals, shall be constructed and displayed in accordance with the rules and regulations of the Village of Hastings-on-Hudson and the Federal MUTCD.
- The Contractor shall provide the Engineer with a telephone number of the person responsible in the case of an emergency, 24 hours a day, 7 days a week.
- All damage to public or private facilities caused by the Contractor's operation shall be repaired to the satisfaction of the Owner at the Contractor's expense.
- Trenches shall not be left open overnight or unattended. At the close of each workday the Contractor shall fill or cover trenches with steel plates to the satisfaction of the Engineer.
- The Contractor shall submit shop drawings for all works to the Engineer. No construction shall be allowed until the shop drawings are approved.
- The Contractor shall comply with O.S.H.A. Standard 29 CFR - Part 1926.650, .651 and .652 for all excavations.
- Refuse from demolition shall become the property of the Contractor. It shall be the Contractor's responsibility to dispose of all construction refuse legally.
- All drainage pipes shall be smooth-interior high density polyethylene corrugated pipe unless noted otherwise. Other types of drainage pipes may be used if so approved by the Engineer under special conditions.
- Any existing pipes which are not shown on these plans which are currently discharging into existing storm drainage facilities designated for removal shall be reconnected to new drainage structures.
- The Contractor shall prevent the formation of any low spots where water can collect and any possible redirection of runoff onto private property and shall take whatever corrective measures are necessary. The Contractor is responsible, at no cost to the Owner, to correct any deleterious water ponding areas.
- Existing valves and manhole covers to remain shall be adjusted to finished grades where required.
- Existing pavement shall be sawcut in a straight line where it is to be bounded by new pavement.
- The pavement and subbase thicknesses noted on these plans are after compaction.
- Fill material shall be free from organic matter, loam and frozen material. Soft or spongy areas after compaction shall be removed, the pocket drained and refilled with select material.
- All existing site features, including, but not limited to, pavement, curbing, grass, landscaping, piping, utility lines, walls, fencing, and structures, disturbed or damaged by construction shall be restored by the Contractor to a condition equal to or better than those currently existing and as directed by the Engineer.
- Disturbed grass or earth areas shall be provided with 4 inches minimum of topsoil and seeded or sodded as described in the specifications.

EROSION CONTROL NOTES

- All erosion control measures downslope of the proposed work area shall be in place prior to the start of construction.
- Final grades shall be established as quickly as possible and topsoiled and seeded to provide a turf which will stabilize slopes and prevent erosion.
- Slopes to remain open during construction shall be protected with mulch and staked tobacco netting.
- Catch basins and drain inlets shall be protected throughout the construction period and until all disturbed areas are thoroughly stabilized.
- Soil stockpiles shall not be allowed on steep slopes, in drainage swales or in wetland areas. Soil stockpiles shall be surrounded with silt fencing and seeded.
- Erosion control measures shall be inspected after each rainfall and shall be cleaned, repaired or replaced as required.
- The Village's wetland consultant, engineer, or a N.Y.S.D.E.C. field representative may require additional erosion control measures if deemed appropriate to mitigate unforeseen siltation and erosion of disturbed soils.

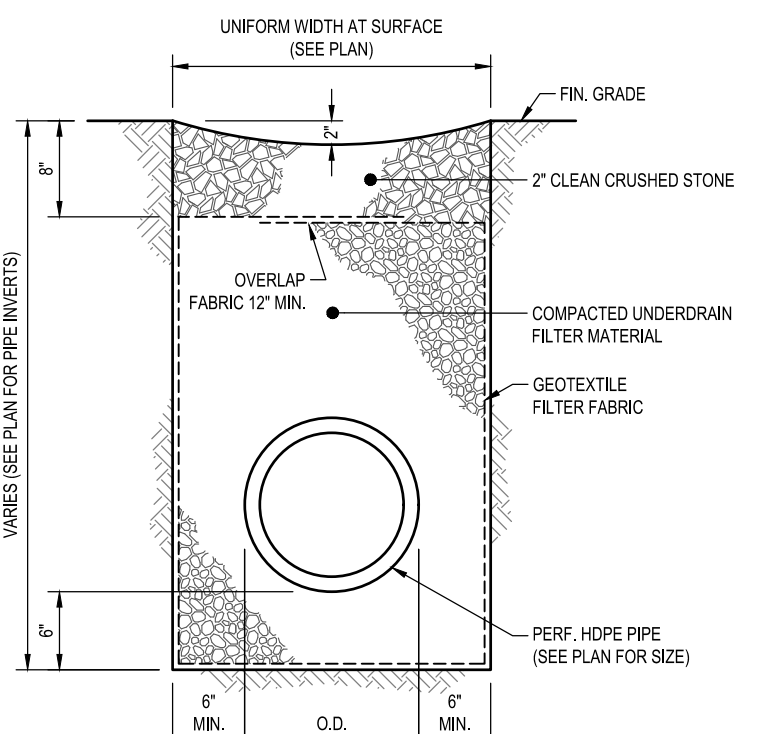


7 TRAIL IMPROVEMENTS  
SCALE: 3/8" = 1'-0"

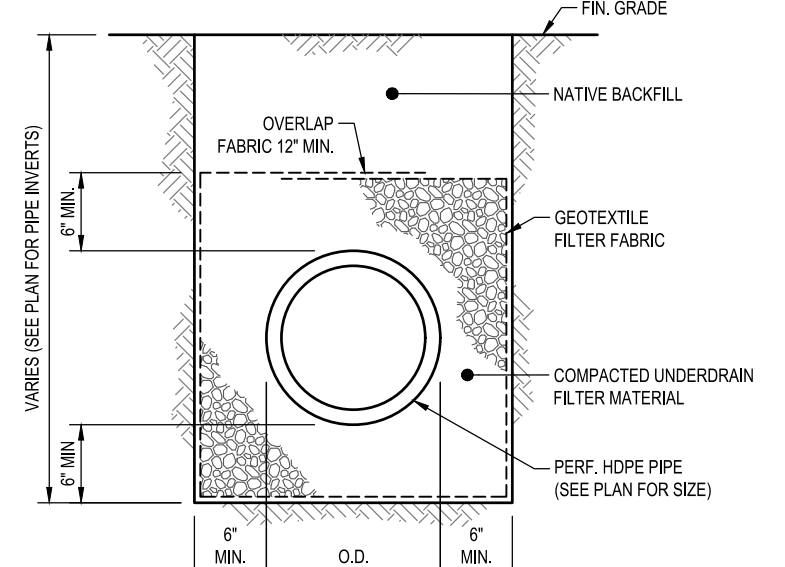


1 STANDARD CATCH BASIN  
N.T.S.

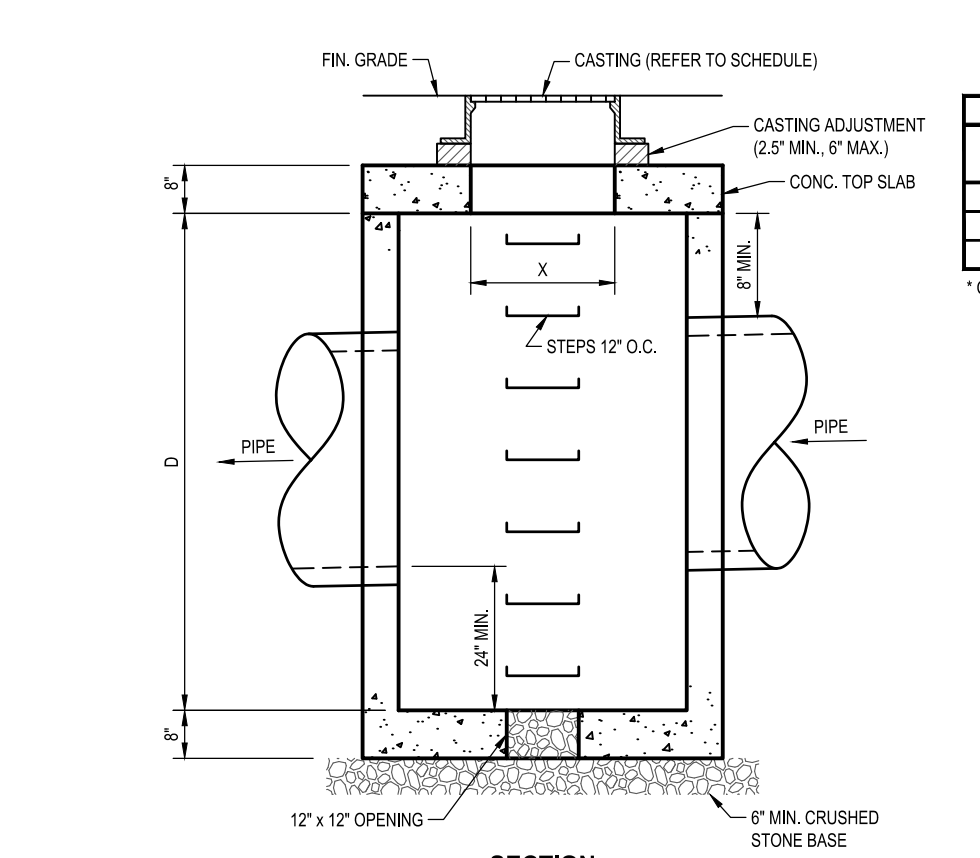
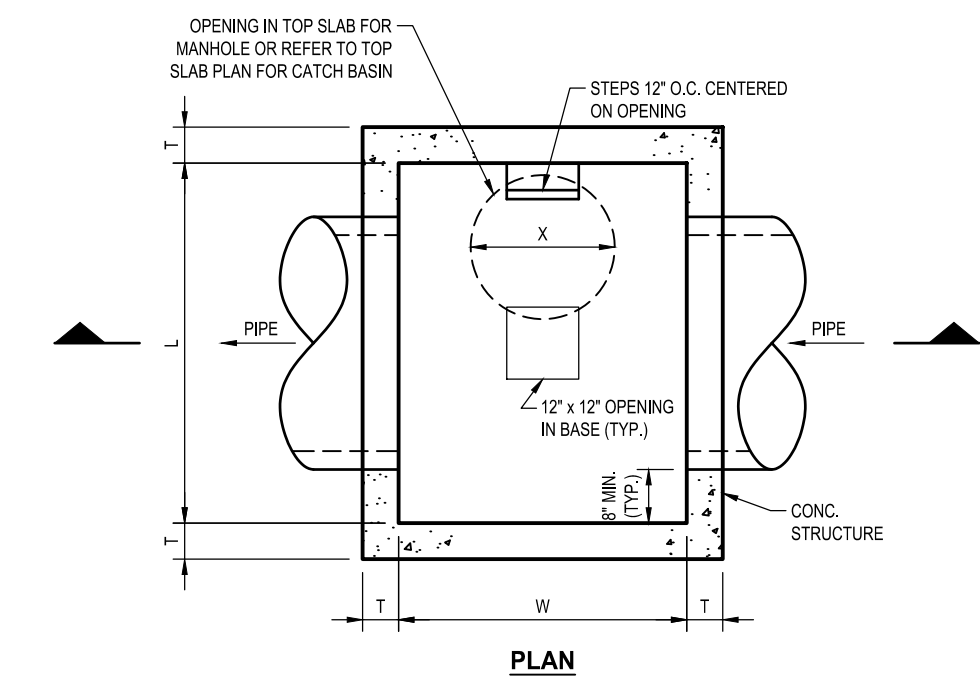
- NOTES:
- CATCH BASINS SHALL MEET REQUIREMENTS FOR H-20 LOADING.
  - CATCH BASIN RIM SHALL BE SET AT AN ELEVATION 1/4" BELOW THE SURROUNDING FINISHED GRADE.
  - LARGER STRUCTURES WITH CONCRETE TOP SLABS ARE REQUIRED WHEN STORM PIPES EXCEED SIZES SHOWN.



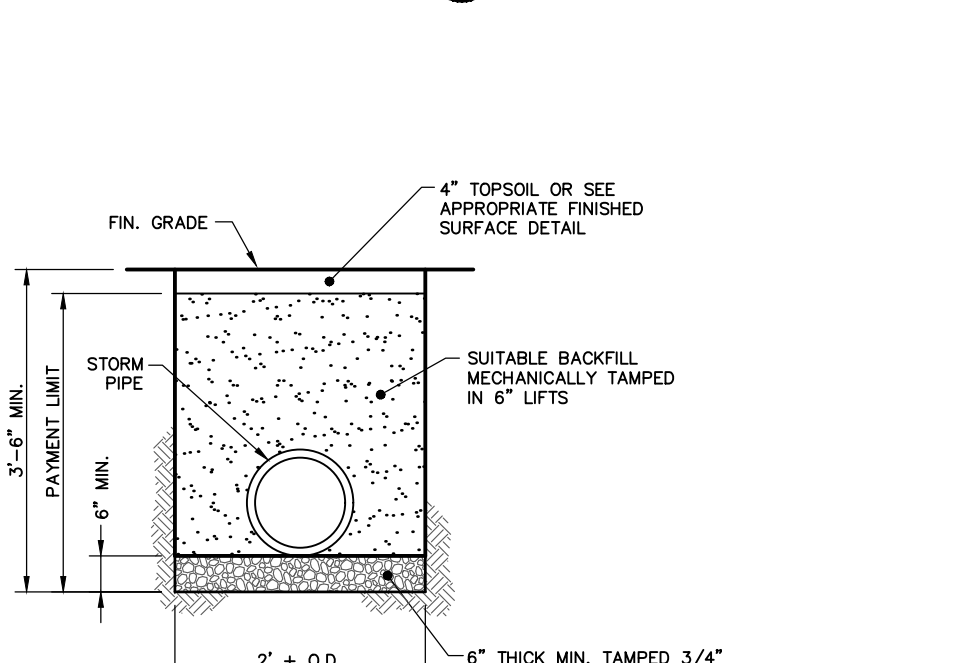
4 FRENCH DRAIN  
N.T.S.



5 UNDERDRAIN  
N.T.S.



3 DRAINAGE STRUCTURE W/ TOP SLAB  
SCALE: 3/8" = 1'-0"

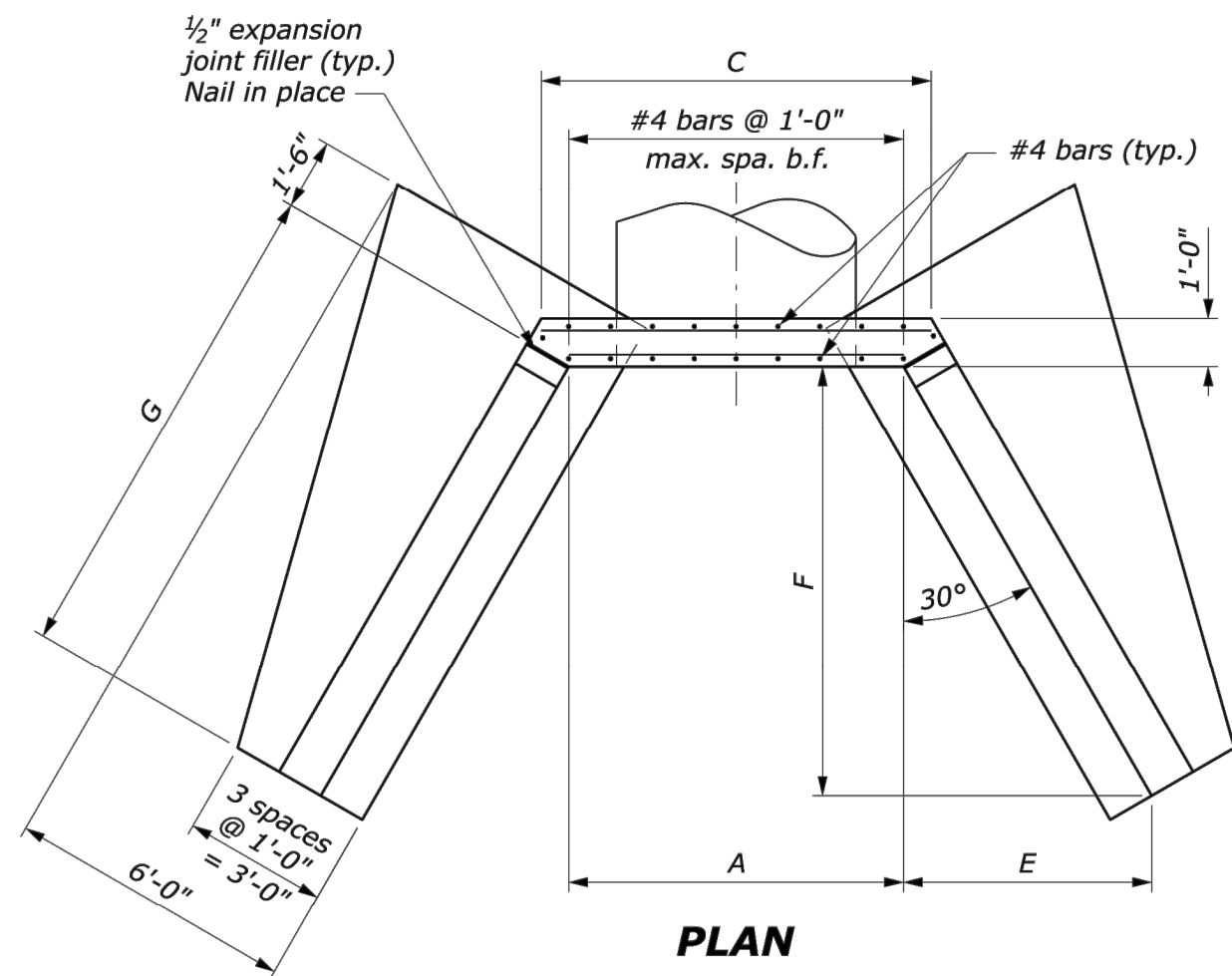


6 STORM DRAIN TRENCH  
N.T.S.

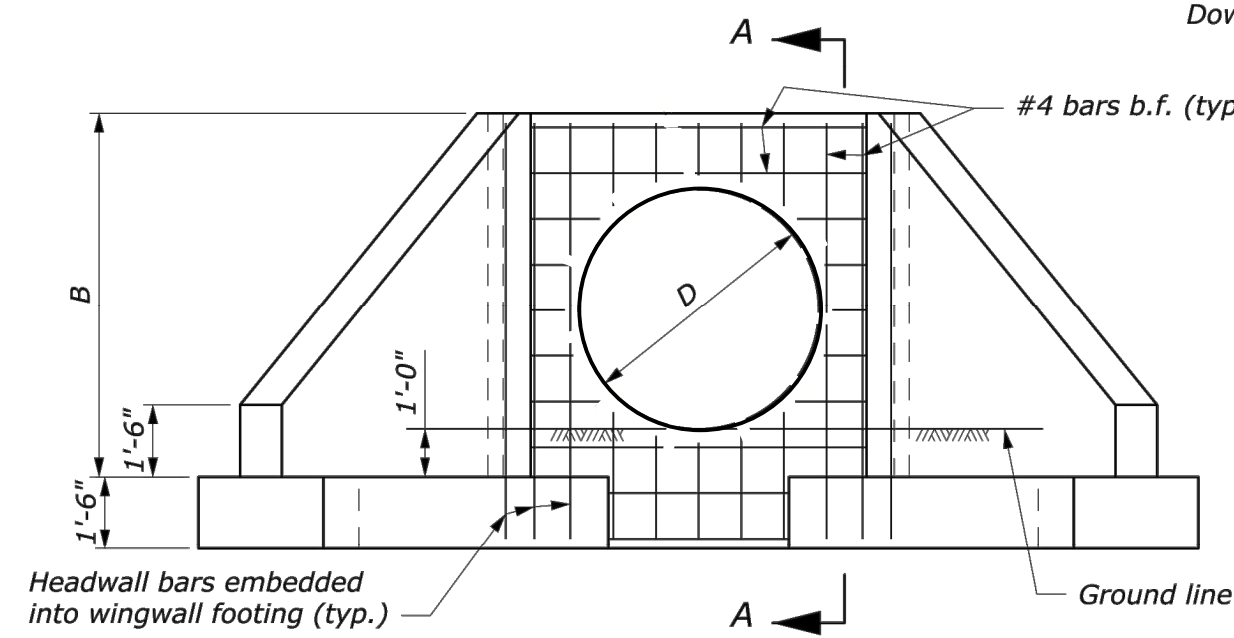
DRAINAGE STRUCTURE SCHEDULE							
DRAINAGE STRUCTURE	L	W	D	T	X	CASTING (FRAME & GRATE)	REMARKS
DI #1	3'-0"	5'-0"	5'-10"	6"	24"	CAMPBELL # 1152C	
DI #2	5'-0"	5'-0"	6'-3"	6"	28 1/2"	CAMPBELL # 1748" (IN SLAB)	NOTCHED INLET IN NORTH & SOUTH WALLS
DIH #12	7'-0"	5'-0"	10'-0"	8"	24"	CAMPBELL # 1007D	

- \* OR APPROVED EQUAL.
- NOTES:
- REFER TO PLAN FOR ACTUAL PIPE SIZES AND ORIENTATIONS.
  - STRUCTURE SHALL MEET REQUIREMENTS FOR H-20 LOADING.
  - ALL PIPES SHALL BE CUT FLUSH TO WALLS.
  - STEPS TO BE PLACED ON UNUSED WALL WHERE POSSIBLE.
  - VERIFY ALL REQUIRED DIMENSIONS IN FIELD.

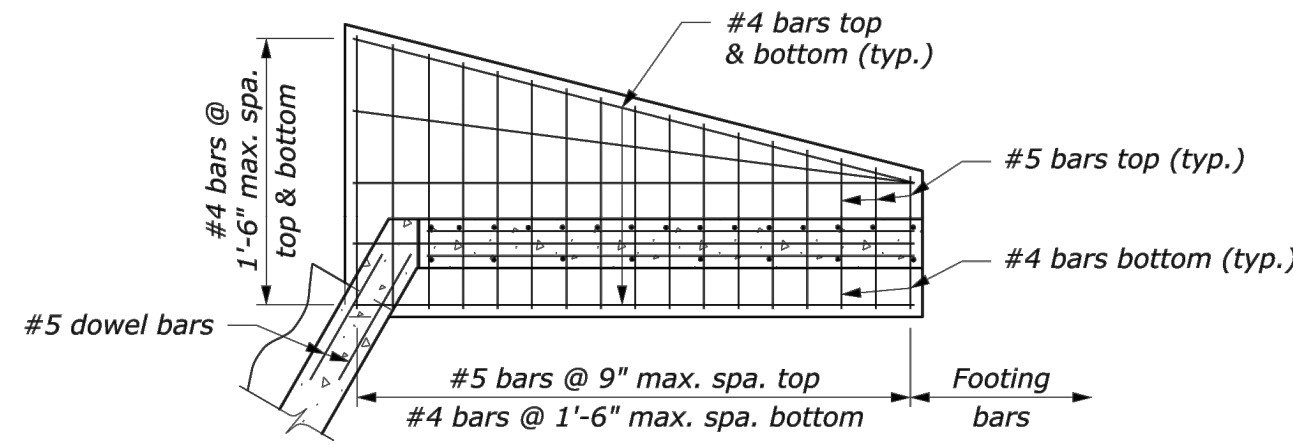
	TITLE	DETAILS (1)
	PROJECT	PROPOSED HILLSIDE PARK STORM DAMAGE RESTORATION
		CHEMKA POOL ROAD
		VILLAGE OF HASTINGS-ON-HUDSON, WESTCHESTER COUNTY, NEW YORK
REV.	DATE	DESCRIPTION
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SCALE	AS NOTED	DATE 6/20/22
DRAWING NO.	C-3	SHEET NO. 3 OF 5



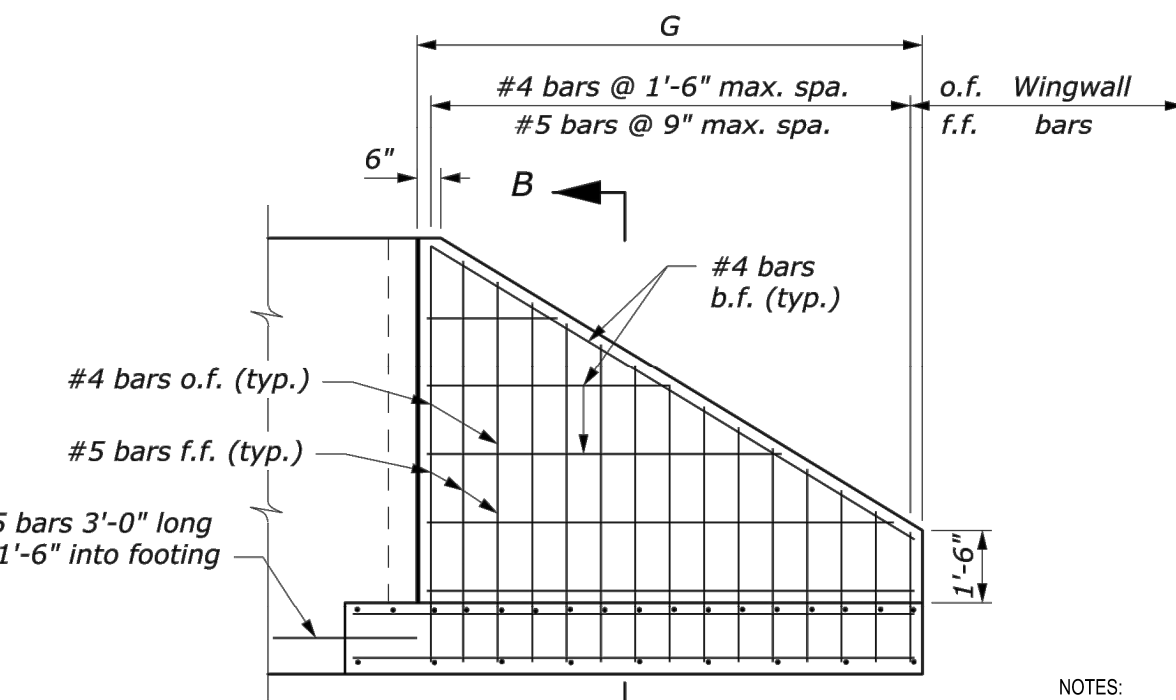
PLAN



FRONT ELEVATION  
(Showing headwall reinforcement)

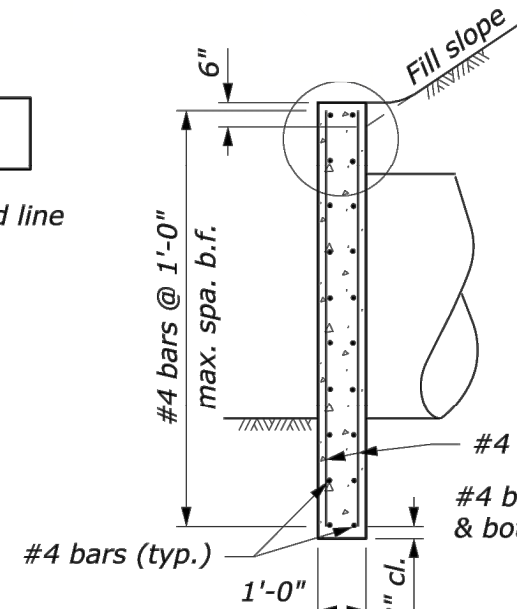


WINGWALL PLAN

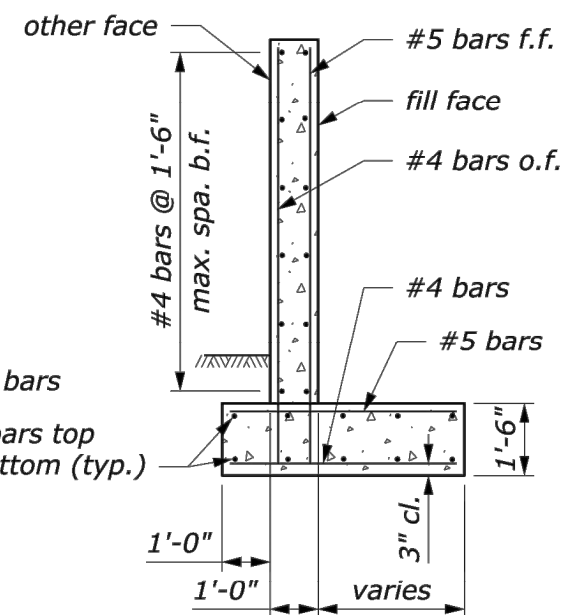


WINGWALL ELEVATION

2 - #5 bars 3'-0" long  
Dowl 1'-6" into footing



SECTION A-A



SECTION B-B

HEADWALL #	A	B	C	D	E	F	G
11	6'-0"	6'-5 1/2"	7'-1 1/2"	48"	5'-9"	9'-11 1/2"	11'-8 1/2"

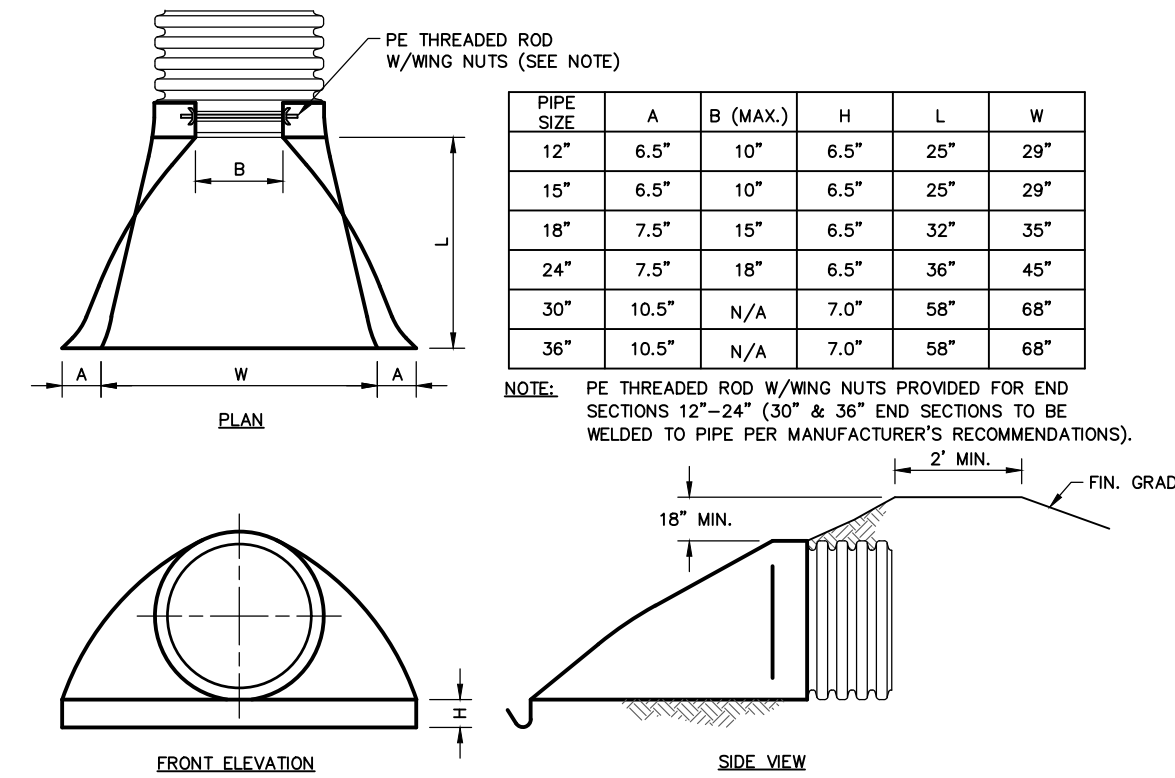
1 CONCRETE HEADWALL

N.T.S.

Abbreviations:  
f.f. = Fill face  
o.f. = Other face  
b.f. = Both faces

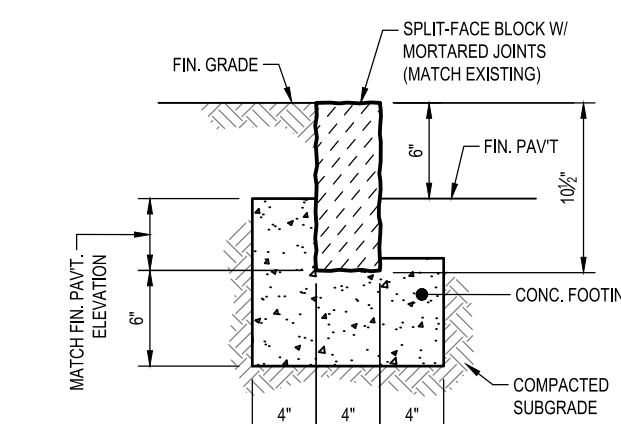
NOTES:

- FILL SLOPE SHALL MEET THE TOP OF THE HEADWALL.
- CONCRETE SHALL CONFORM TO SECTION 601. CHAMFER ALL EXPOSED EDGES 3/4" AND FINISH ALL EXPOSED SURFACES WITH A CLASS 1 ORDINARY SURFACE FINISH. JOINT FILLER SHALL CONFORM TO AASHTO M213.
- REINFORCING STEEL CLEARANCE IS 2 INCHES UNLESS SHOWN OTHERWISE.



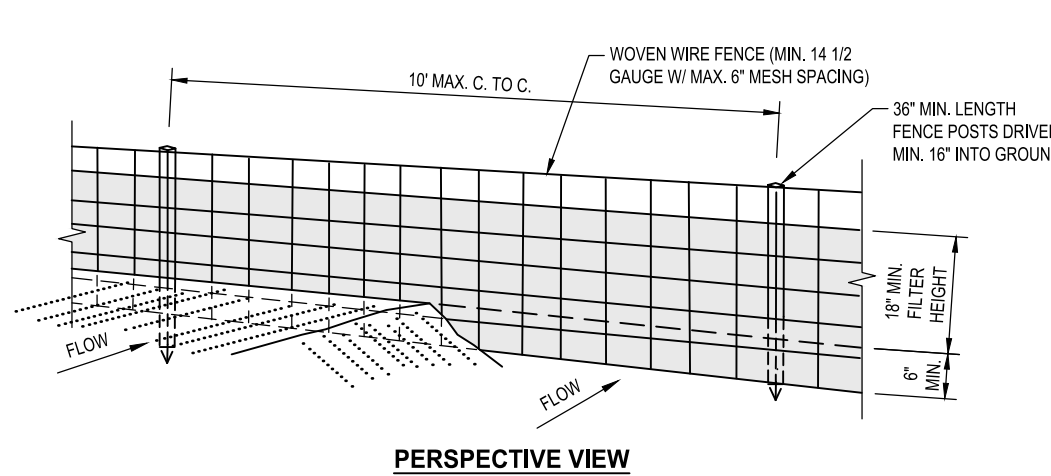
2 FLARED H.D.P.E END SECTION

N.T.S.

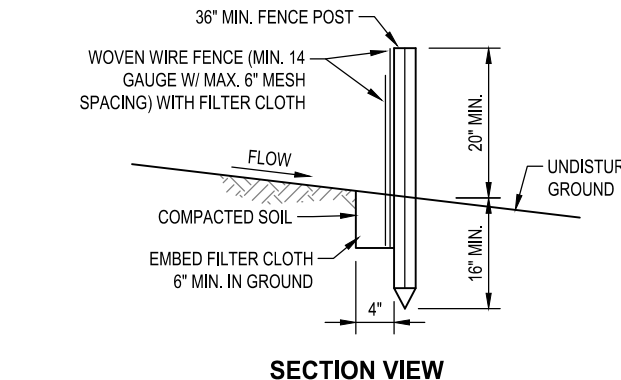


4 BELGIAN BLOCK CURB

N.T.S.



PERSPECTIVE VIEW



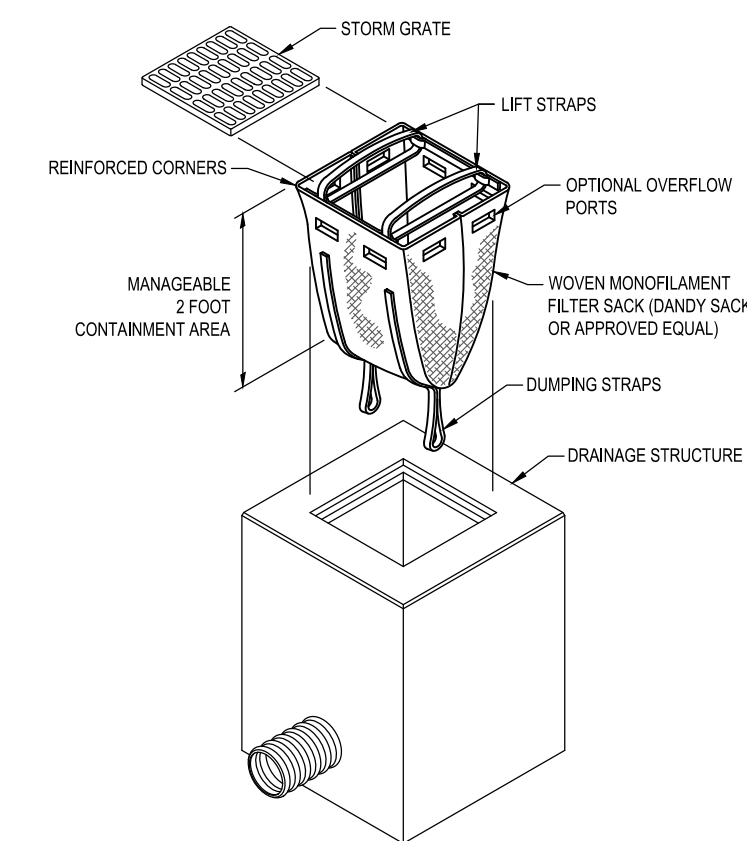
SECTION VIEW

CONSTRUCTION SPECIFICATIONS

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER 1" OR 1 1/2" TYPE OR HARDWOOD.
- FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA 1100X, OR APPROVED EQUIVALENT.
- PREFABRICATED UNITS SHALL MEET THE MINIMUM REQUIREMENTS SHOWN.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.

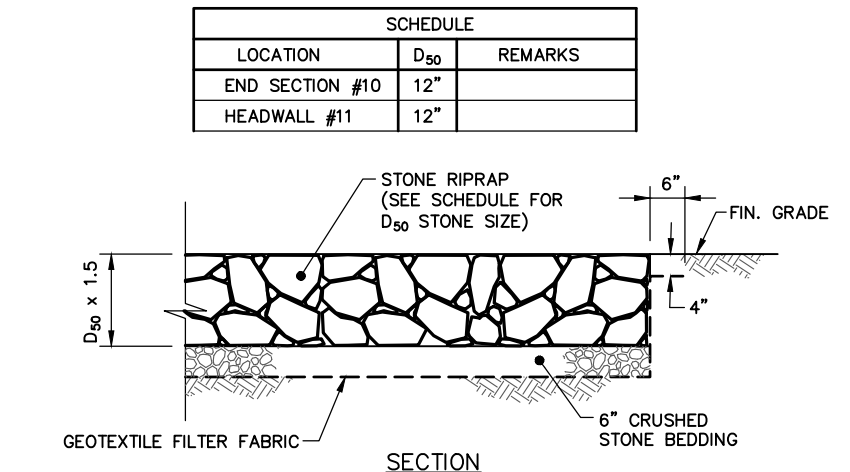
6 REINFORCED SILT FENCE

N.T.S.



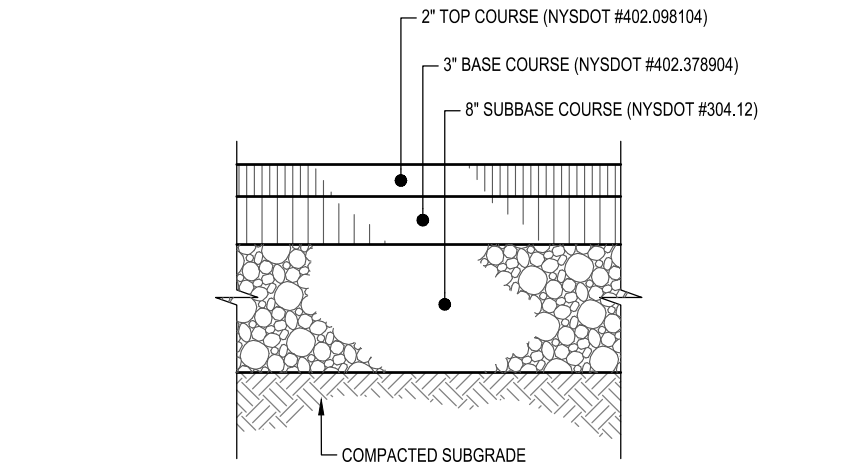
8 FILTER SACK INLET PROTECTION

N.T.S.



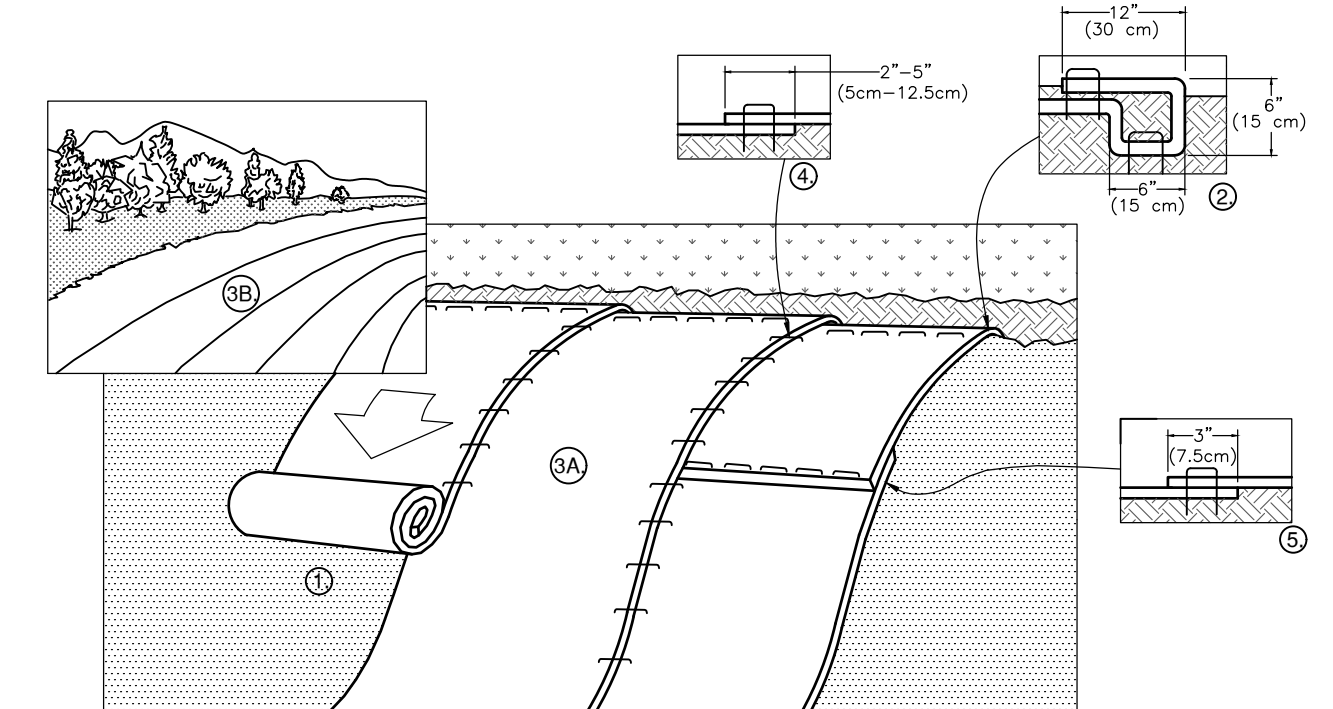
3 STONE RIPRAP STABILIZATION

N.T.S.



5 PARKING AREA PAVEMENT

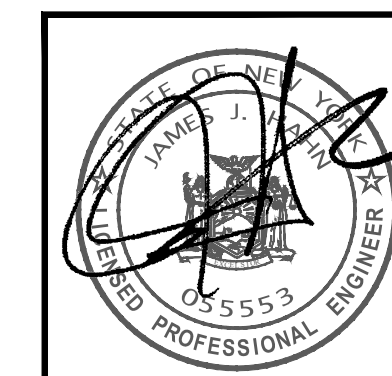
N.T.S.



7 EROSION CONTROL BLANKET INSTALLATION

N.T.S.

- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.
- ROLL THE RECP'S (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.
- CONSECUTIVE RECP'S SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH. NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.



REV.	DATE	DESCRIPTION

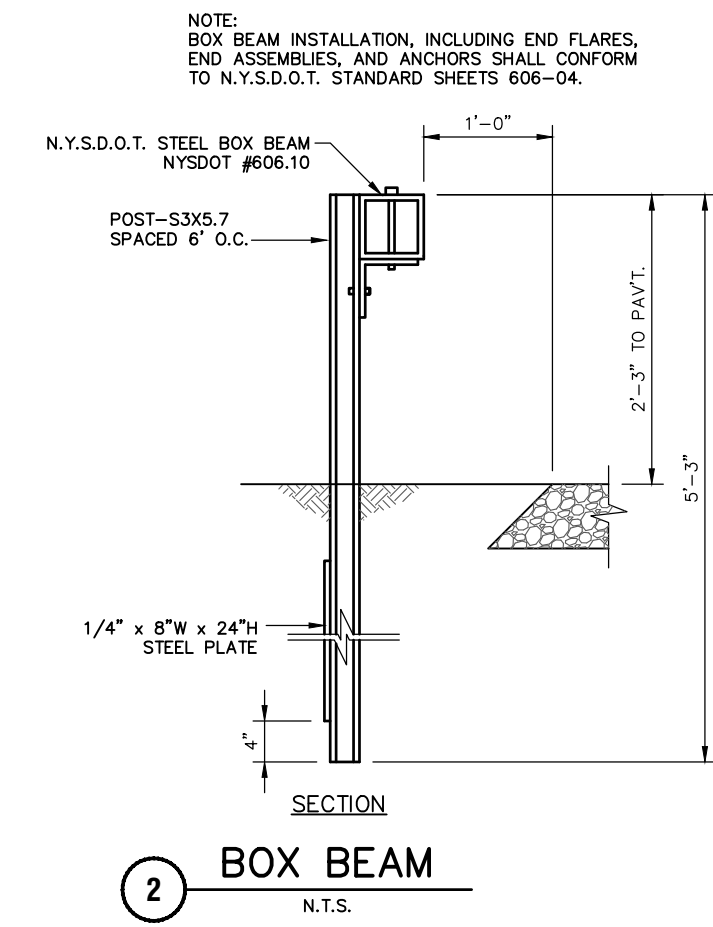
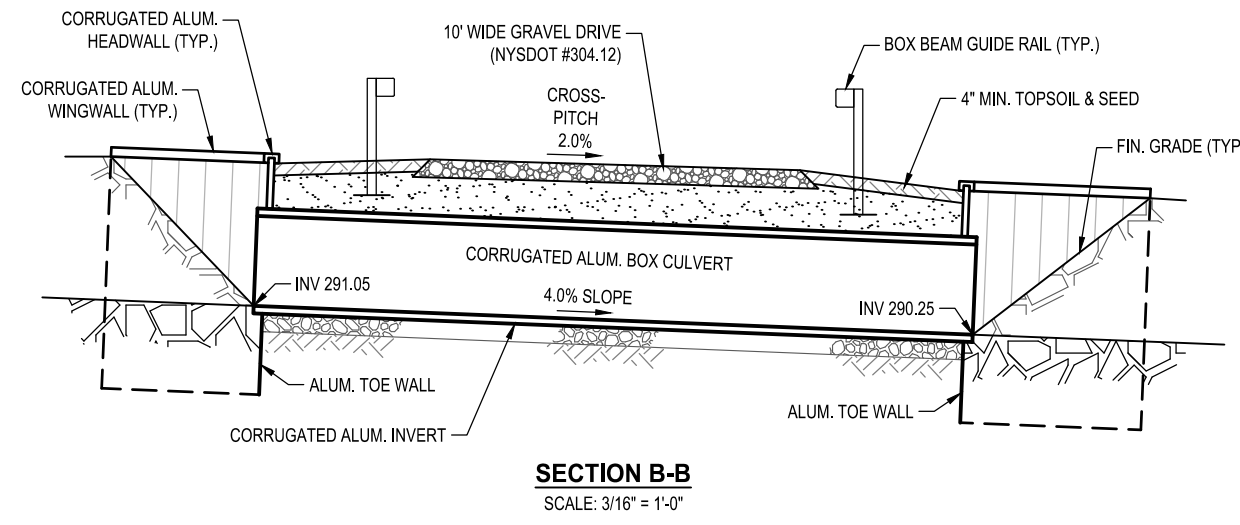
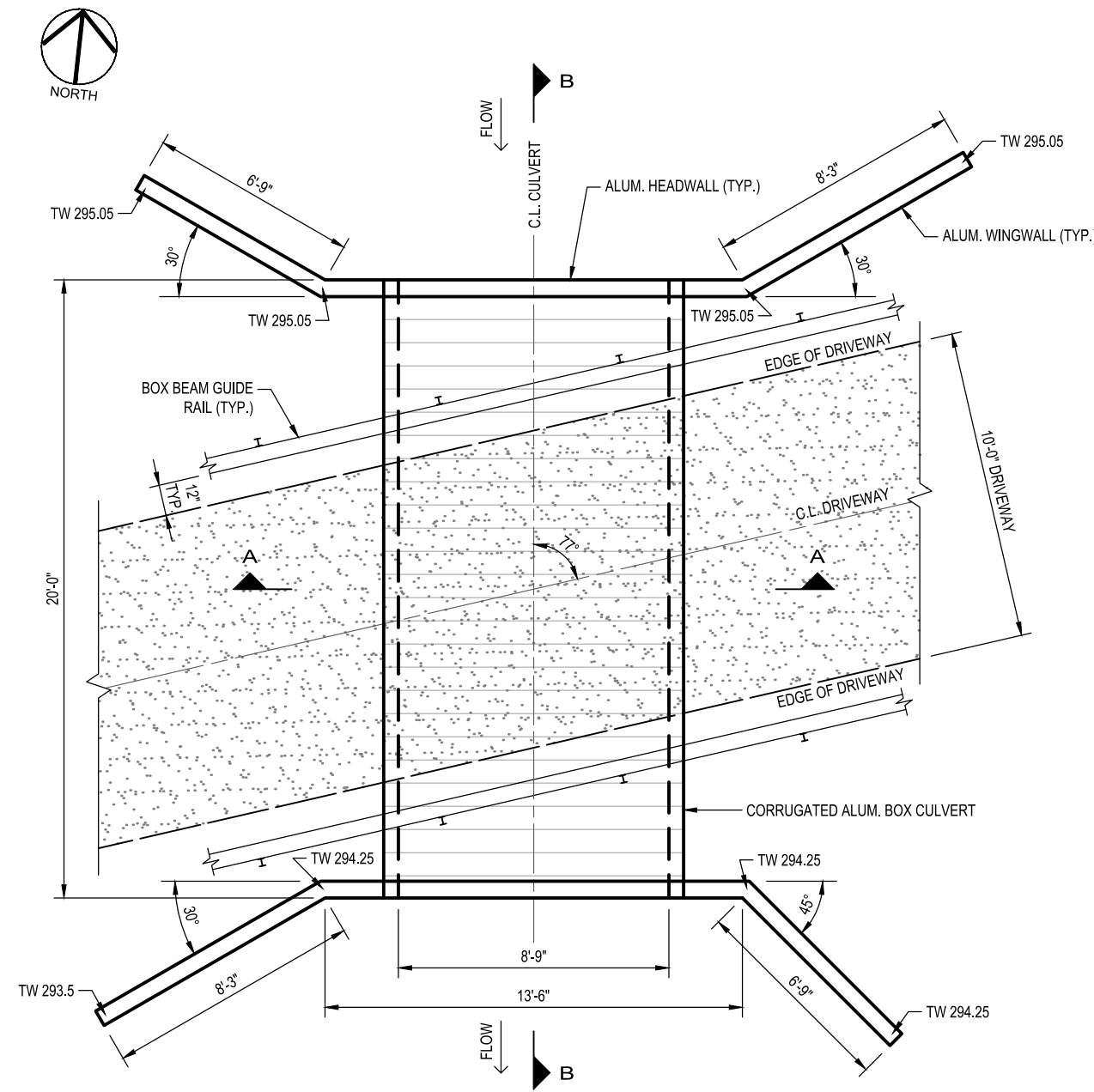
TITLE	DATE
DETAILS (2)	6/20/22
PROJECT	
<b>PROPOSED HILLSIDE PARK STORM DAMAGE RESTORATION</b>	
CHEMKA POOL ROAD VILLAGE OF HASTINGS-ON-HUDSON, WESTCHESTER COUNTY, NEW YORK	

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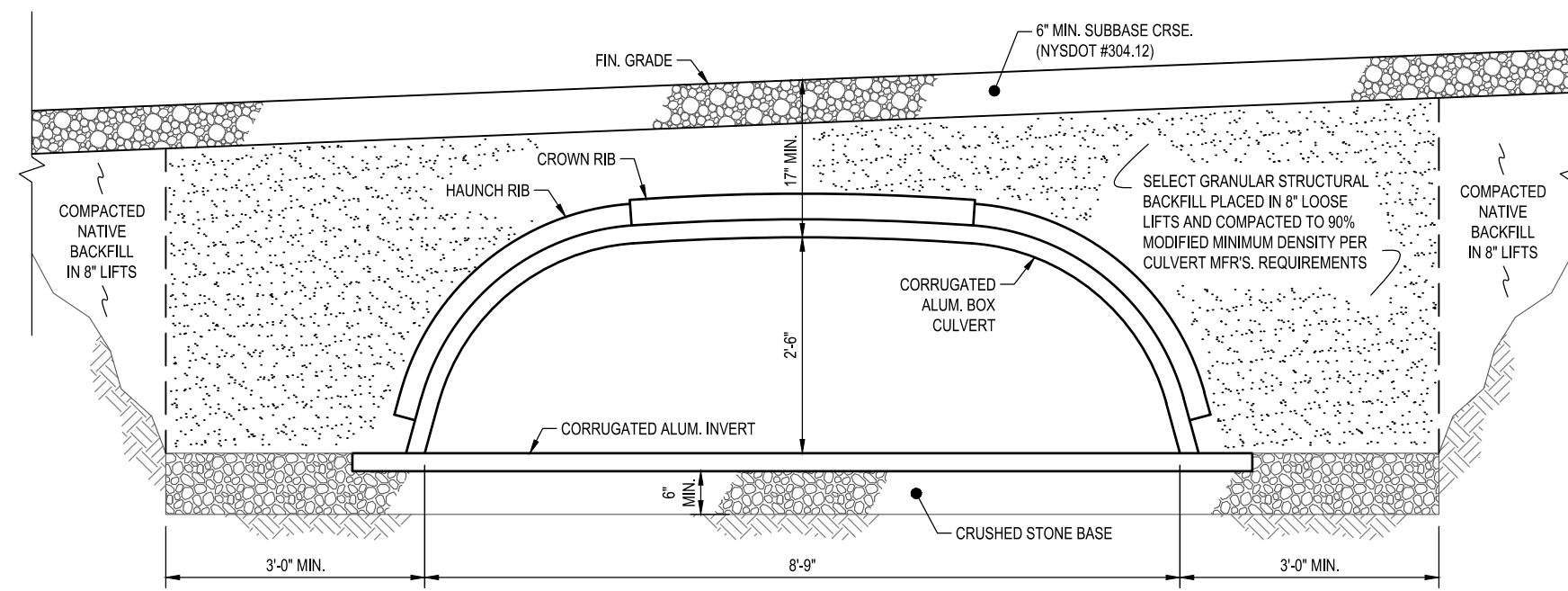
**JAMES J. HAHN**  
ENGINEERING, P.C.

Putnam Business Park  
1689 Route 22  
Brewster, New York 10509  
Tel: (845) 278-2220

SCALE: AS NOTED  
DATE: 6/20/22  
DRAWING NO.: C-4  
SHEET NO.: 4 OF 5



- NOTES:
1. ALUMINUM BOX CULVERT TO BE STRUCTURE 1, MANUFACTURED BY CONTECH ENGINEERED SOLUTIONS.
  2. CORRUGATED ALUMINUM INVERT PLATE, TOE PLATE, HEADWALLS, WINGWALLS, ANCHOR RODS, AND DEADMAN ANCHORS SHALL BE INSTALLED PER THE CULVERT MANUFACTURER'S REQUIREMENTS.
  3. BACKFILLING MATERIALS AND PROCEDURES SHALL BE PER THE CULVERT MANUFACTURER'S REQUIREMENTS.
  4. SHOP DRAWINGS OF THE CULVERT, HEADWALLS, WINGWALLS, AND ANCHORS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO MANUFACTURE.



1 ALUMINUM BOX CULVERT

		<b>DETAILS (3)</b>	
PROJECT <b>PROPOSED          HILLSIDE PARK          STORM DAMAGE RESTORATION</b>		TITLE <b>PROPOSED          HILLSIDE PARK          STORM DAMAGE RESTORATION</b>	
CHEMKA POOL ROAD VILLAGE OF HASTINGS-ON-HUDSON, WESTCHESTER COUNTY, NEW YORK		SCALE AS NOTED	
DATE 6/20/22		DATE 6/20/22	
REV. DATE DESCRIPTION		DRAWING NO. <b>C-5</b>	
SHEET NO. <b>5</b>		SHEET NO. <b>5</b>	
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