

SHEET

NUMBER

N/A OF N/A

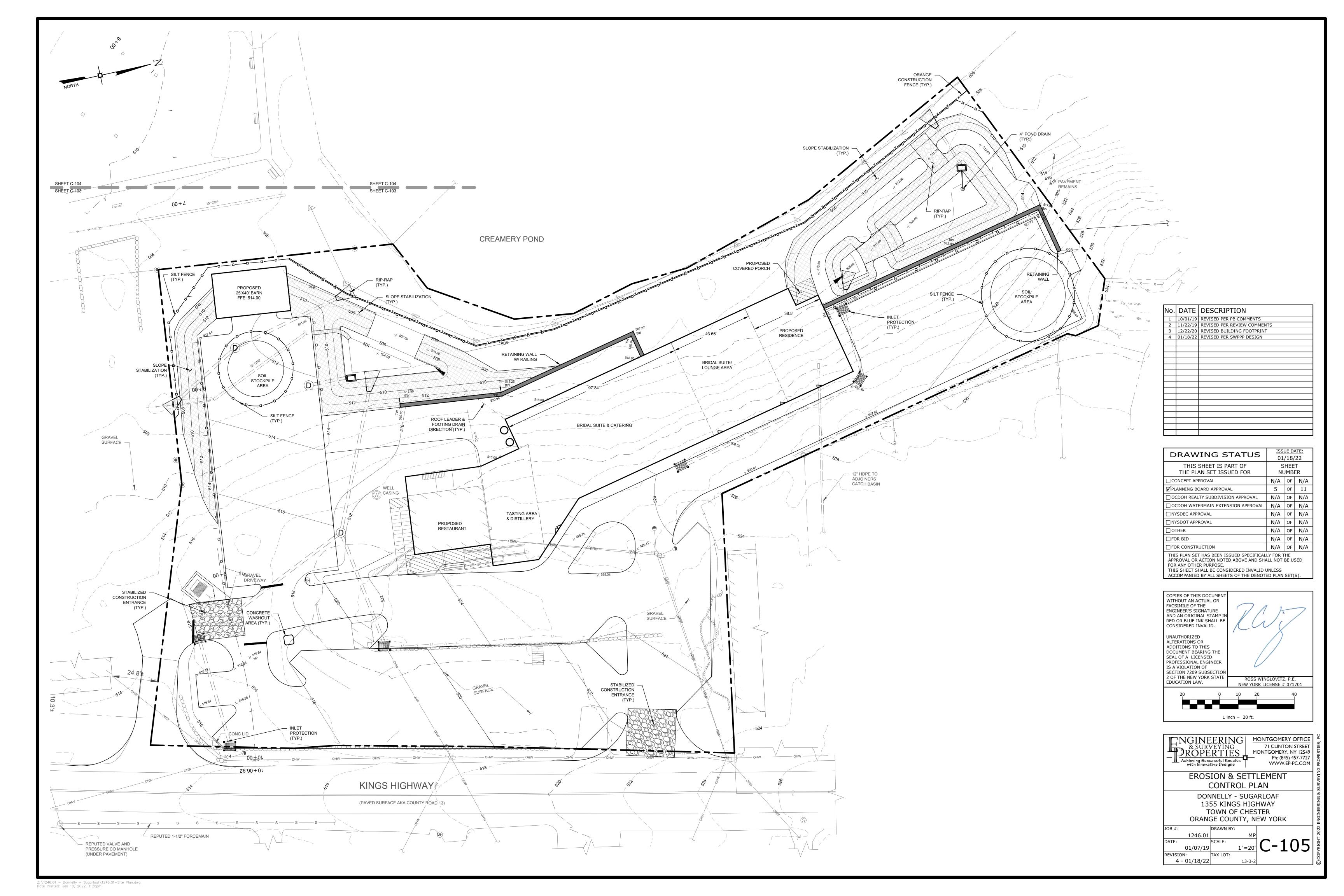
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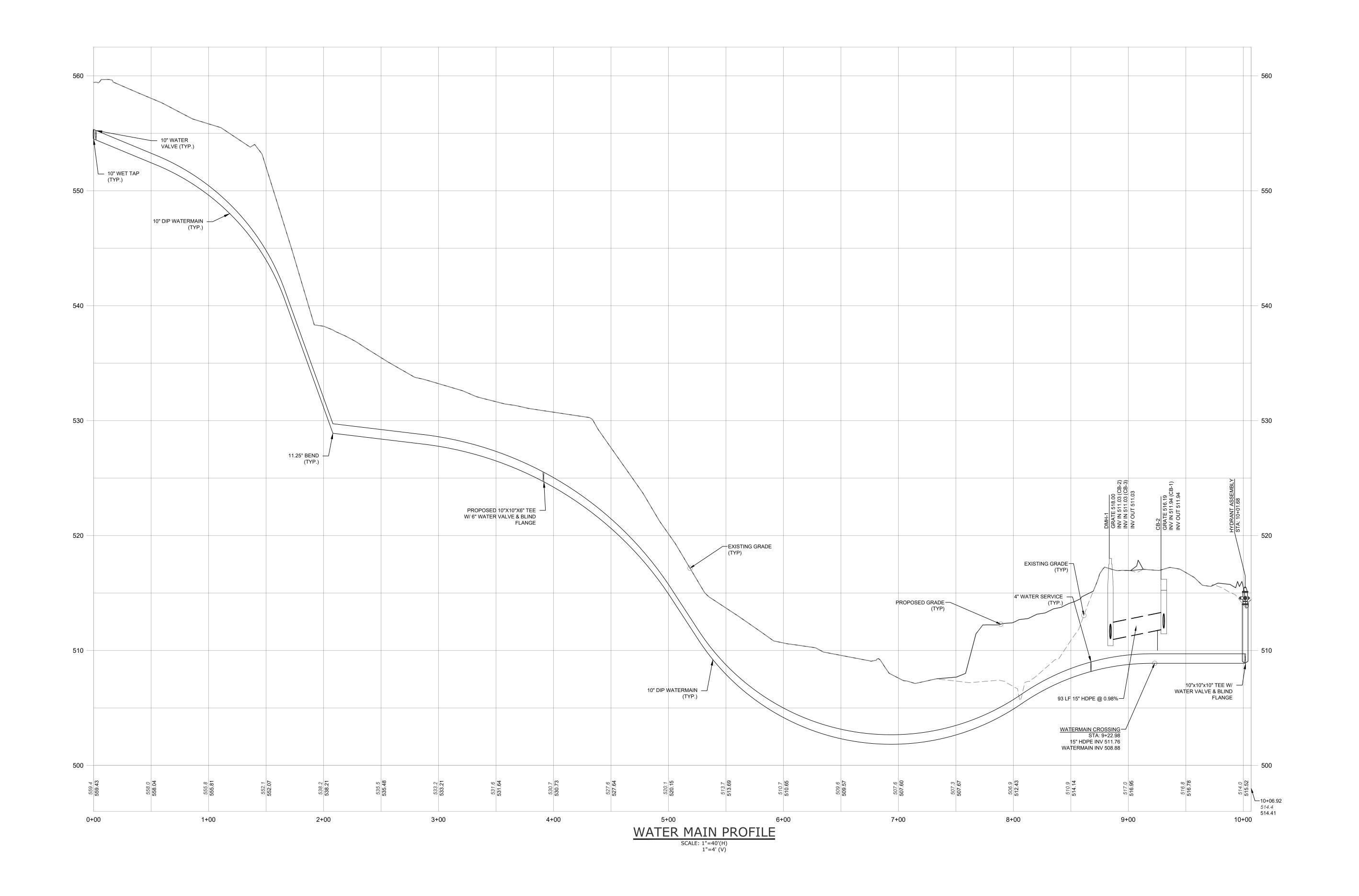
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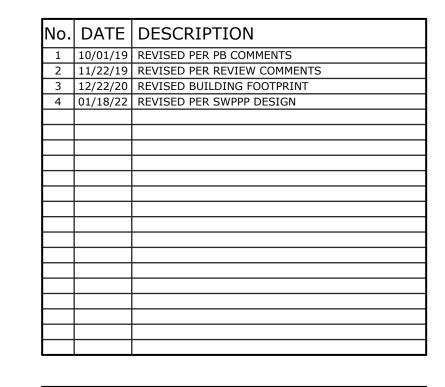
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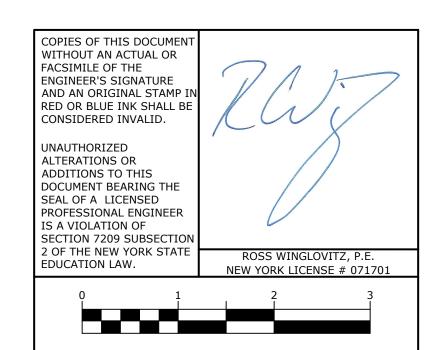


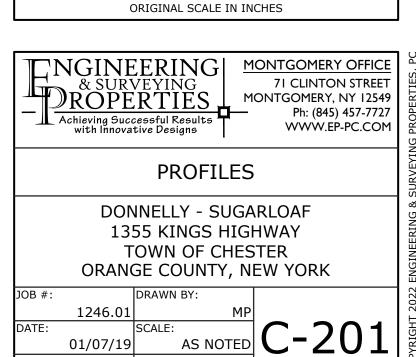


DRAWING STATUS		ISSUE DATE:		
DRAWING STATUS	01/18/22			
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR	SHEET NUMBER		-	
CONCEPT APPROVAL	N/A	OF	N/A	
☑ PLANNING BOARD APPROVAL	6	OF	11	
OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A	
OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A	
☐ NYSDEC APPROVAL	N/A	OF	N/A	
□NYSDOT APPROVAL	N/A	OF	N/A	
OTHER	N/A	OF	N/A	
☐ FOR BID	N/A	OF	N/A	
FOR CONSTRUCTION	N/A	OF	N/A	
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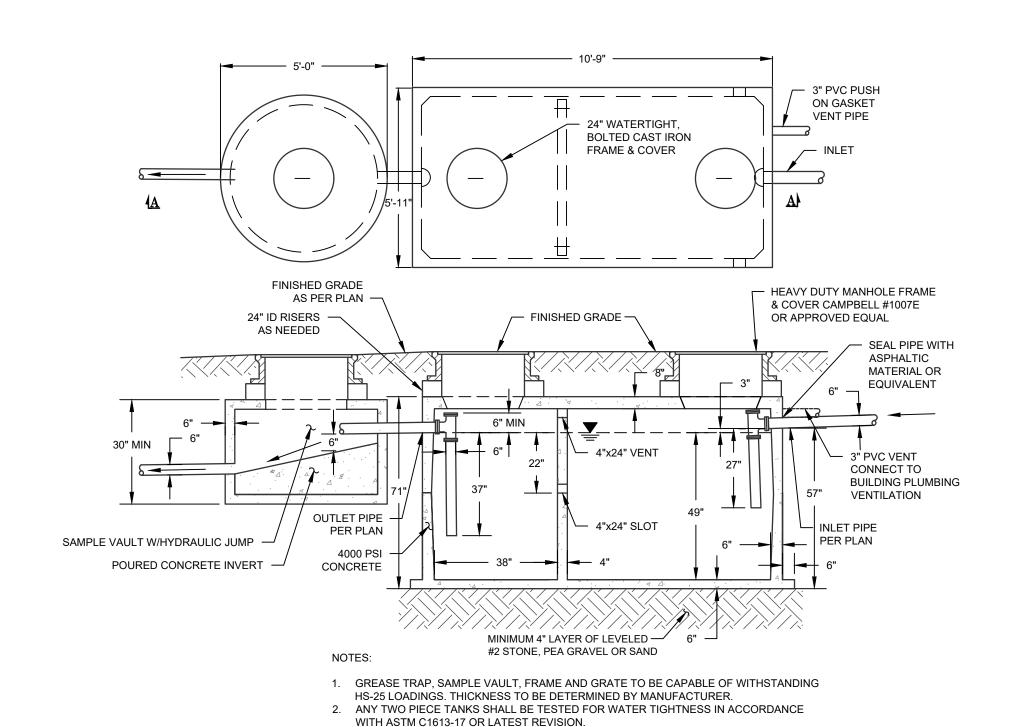
APPROVAL OR ACTION NOTED ABOVE AND SHALL NOT BE USED FOR ANY OTHER PURPOSE.

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13-3-2



TRAFFIC DUTY GREASE TRAP (1,500 GAL)

- CURB BOX - MUELLER

H-10336 OR APPROVED EQUAL

H-15219 OR APPROVED EQUAL

CURB VALVE - MUELLER

PROPOSED 2" TYPE "K" COPPER

PIPE TO BE PROVIDED

CURB VALVE AND CURB

4' MIN

**GROUND SURFACE** 

WATER MAIN -

BOX TO BE PROVIDED -

PROVIDE

CORPORATION COCK

2 O'CLOCK POSITION

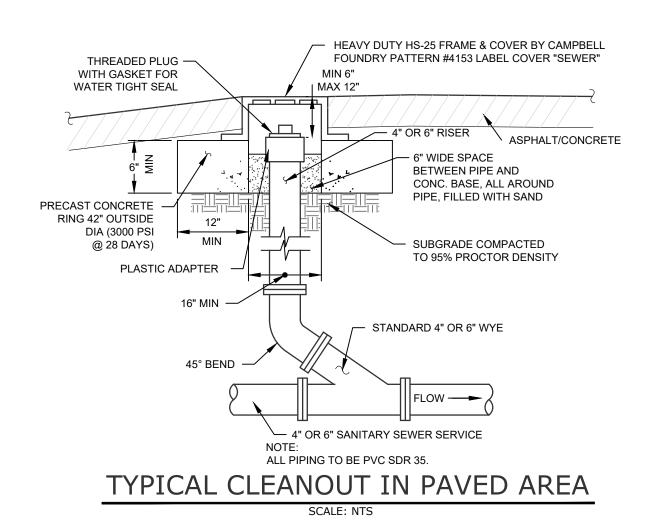
AT 10 O'CLOCK OR

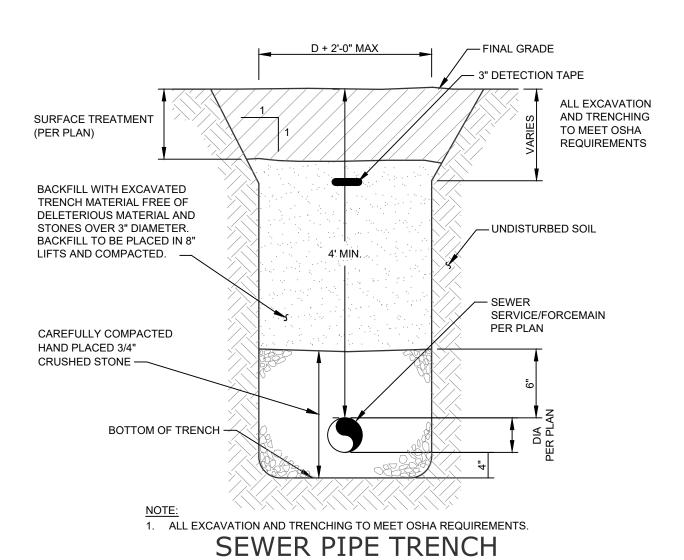
COMPACTED FILL

GOOSENECK 4'-6" MIN

WATER SERVICE CONNECTION

\ AS NECESSARY





CONTAIN NO MORE THAN 0.25% LEAD BY WEIGHT. 8. THE TOWN OF CHESTER COMMISSIONER OF PUBLIC WORKS OR HIS DESIGNATED REPRESENTATIVE MUST BE INFORMED OF ANY HYDROSTATIC OR BACTERIOLOGICAL TESTING TO PERMIT THE TESTING TO BE WITNESSED. 9. THE TOWN OF CHESTER COMMISSIONER OR PUBLIC WORKS OR HIS DESIGNATED REPRESENTATIVE MUST ACCEPT HYDROSTATIC AND

WATER SYSTEM NOTES

1. CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF

2. CONTRACTOR TO CALL UNDERGROUND MARK-OUT AT LEAST 2

DEPARTMENT AT (845) 469-7000 EXT. 322 AT LEAST 2 DAYS PRIOR

4. WATER MAIN 4" OR LARGER TO BE CLASS 52 BITUMINOUS COATED

DEVIATION FROM HORIZONTAL OR VERTICAL ALIGNMENTS WITH

IMPROVEMENTS SHALL BE PROVIDED TO THE TOWN OF CHESTER

WATER DEPARTMENT BY A LICENSED DESIGN PROFESSIONAL.

FEDERAL "SAFE DRINKING WATER ACT", SECTION 1417 WHICH REQUIRES ALL SURFACES IN CONTACT WITH POTABLE WATER

5. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY OF ANY

REGARDS TO EXISTING UTILITIES BEFORE PROCEEDING.

7. ALL PIPE, FIXTURES AND FITTINGS MUST COMPLY WITH THE

DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION AT

1-800-962-7962 FOR COMPLETE UTILITIES MARKOUT.

3. CONTRACTOR TO CONTACT TOWN OF CHESTER WATER

DOUBLE CEMENT LINED DUCTILE IRON PIPE.

6. A CERTIFIED AS BUILT MAP OF THE WATER SYSTEM

EXISTING WATER AND SEWER UTILITIES PRIOR TO THE

COMMENCEMENT OF CONSTRUCTION.

BACTERIOLOGICAL TEST RESULTS AS ADEQUATE.

10. THE PROPOSED WATERMAIN SHALL BE INSTALLED IN ACCORDANCE WITH ALL TOWN OF CHESTER REQUIREMENTS. THE PROPOSED WATERMAIN SHALL BE DEDICATED TO AND OWNED AND MAINTAINED BY THE TOWN OF CHESTER.

No. DATE DESCRIPTION 1 10/01/19 REVISED PER PB COMMENTS 2 | 11/22/19 | REVISED PER REVIEW COMMENTS 3 12/22/20 REVISED BUILDING FOOTPRINT 4 01/18/22 REVISED PER SWPPP DESIGN

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□NYSDOT APPROVAL	N/A	OF	N/A	
☐ OTHER	N/A	OF	N/A	
☐FOR BID	N/A	OF	N/A	
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ORIGINAL SCALE IN INCHES

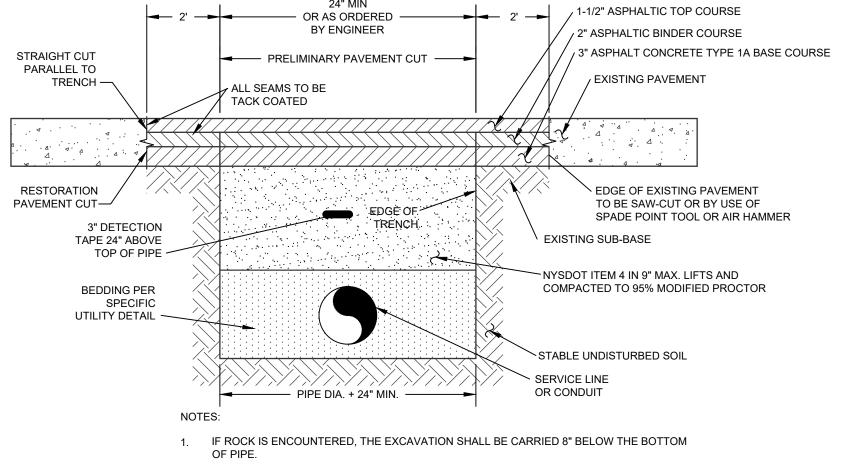


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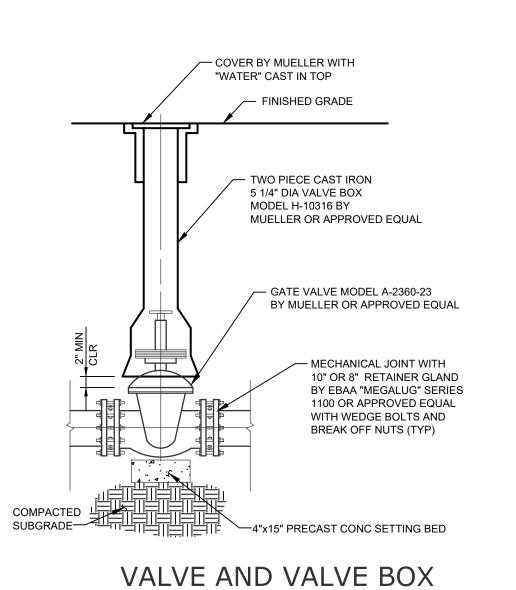
SPLIT TAPPING SLEEVE, SIZE AS PROVIDE TAPPING VALVE PROPOSED DIP WATER SERVICE EXISTING WATER

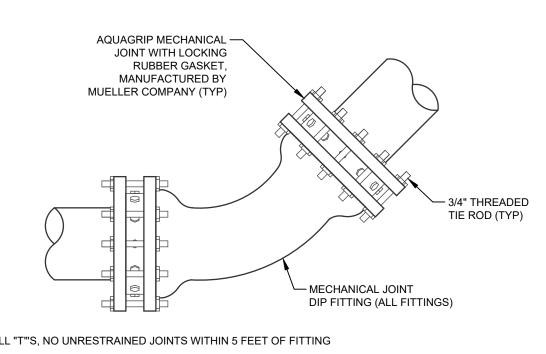
2. CONTRACTOR TO CONTACT TOWN OF CHESTER WATER

1. WET TAP TO BE PERFORMED BY CONTRACTOR WITH ENGINEER AND TOWN OF CHESTER WATER DEPARTMENT ON SITE. DEPARTMENT FOR INSTALLATION REQUIREMENTS.



UTILITY PIPE TRENCH - WITHIN TOWN R.O.W.



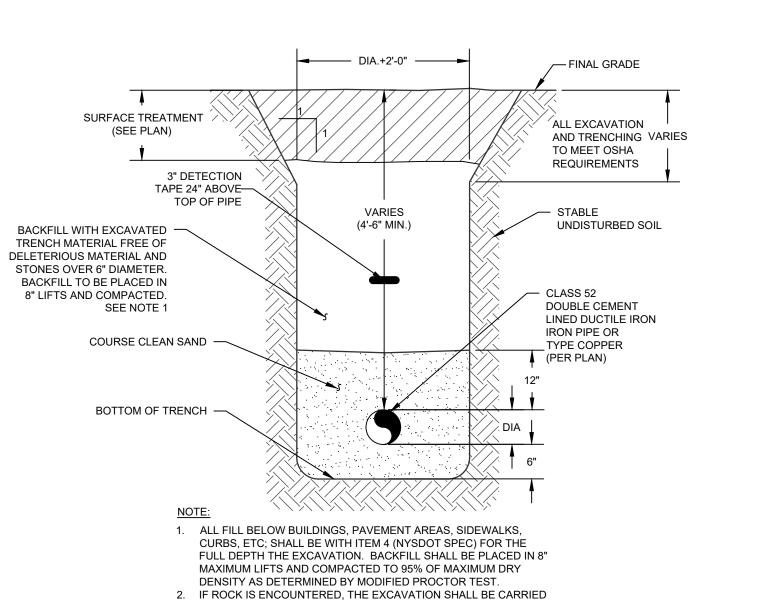


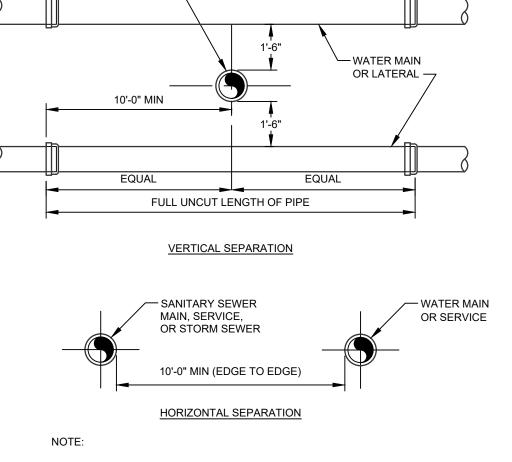
1. FOR ALL "T"'S, NO UNRESTRAINED JOINTS WITHIN 5 FEET OF FITTING 2. ALL FITTINGS ARE TO BE RESTRAINED WITH AQUAGRIP MECHANIC JOINTS WITH LOCKING RUBBER GASKETS AS MANUFACTURED BY MUELLER COMPANY. IN ADDITION ALL PIPE JOINTS SHALL BE RESTRAINED AS FOLLOWS:

ALL JOINTS WITHIN 13 FEET OF FITTING ALL JOINTS WITHIN 7 FEET OF FITTING ALL JOINTS WITHIN 4 FEET OF FITTING 8X6 REDUCER ALL 8" BRANCH JOINTS WITHIN 34 FEET OF FITTING ALL 8" BRANCH JOINTS WITHIN 64 FEET OF FITTING 8X8 TEE DEAD END ALL JOINTS WITHIN 80 FEET OF FITTING

\* ASSUMED: 4'-0" COVER, 150 PSI TEST PRESSURE, AND 2.0 TO 1 FACTOR OF SAFETY.

PIPE RESTRAINT DETAIL



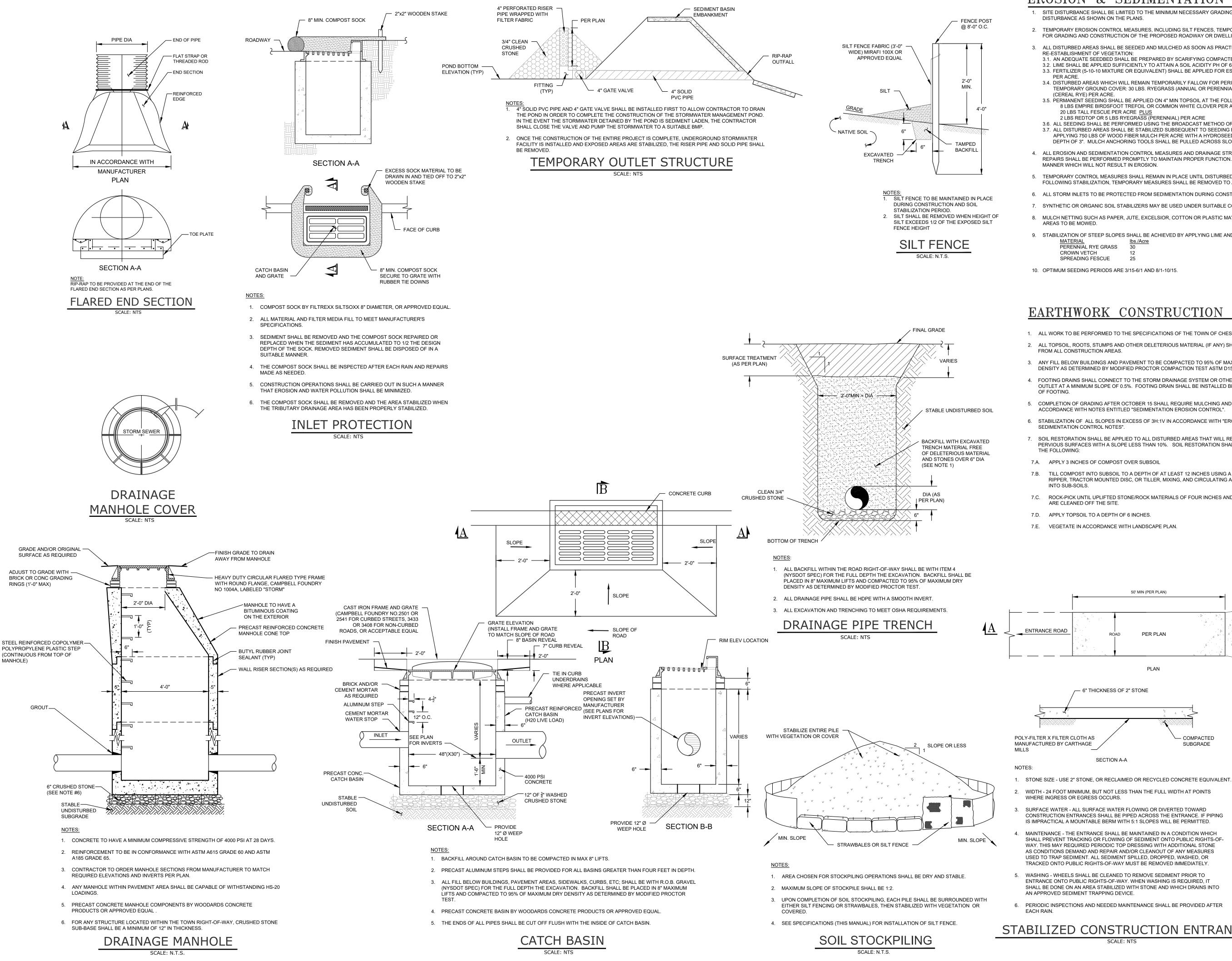


SANITARY SEWER MAIN/LATERAL

OR STORM DRAIN -

NO DEVIATION IN THE SEPARATION REQUIREMENTS WILL BE PERMITTED WITHOUT APPROVAL OF THE ORANGE COUNTY DEPARTMENT OF HEALTH.

WATER/SEWER SEPARATION REQUIREMENTS



### **EROSION & SEDIMENTATION CONTROL NOTES**

- 1. SITE DISTURBANCE SHALL BE LIMITED TO THE MINIMUM NECESSARY GRADING AND VEGETATION REMOVAL REQUIRED FOR CONSTRUCTION WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS.
- 2. TEMPORARY EROSION CONTROL MEASURES, INCLUDING SILT FENCES, TEMPORARY SWALES, STONE CHECK DAMS SHALL BE INSTALLED PRIOR TO GROUND DISTURBANCE FOR GRADING AND CONSTRUCTION OF THE PROPOSED ROADWAY OR DWELLING UNITS.
- 3. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL FOLLOWING DISTURBANCE TO STABILIZE BARE SOIL AND PROMOTE THE PROMPT
- RE-ESTABLISHMENT OF VEGETATION: 3.1. AN ADEQUATE SEEDBED SHALL BE PREPARED BY SCARIFYING COMPACTED SOIL AND REMOVING SURFACE DEBRIS AND OBSTACLES. 3.2. LIME SHALL BE APPLIED SUFFICIENTLY TO ATTAIN A SOIL ACIDITY PH OF 6.0 TO 7.0.
- 3.3. FERTILIZER (5-10-10 MIXTURE OR EQUIVALENT) SHALL BE APPLIED FOR ESTABLISHING NEW LAWNS PER SITE SPECIFIC SOIL TEST RESULTS OR AT A RATE OF 600 LBS.
- 3.4. DISTURBED AREAS WHICH WILL REMAIN TEMPORARILY FALLOW FOR PERIODS GREATER THAN 30 DAYS SHALL BE SEEDED AT THE FOLLOWING RATE TO PRODUCE TEMPORARY GROUND COVER: 30 LBS. RYEGRASS (ANNUAL OR PERENNIAL) PER ACRE. DURING THE WINTER, USE 100 LBS. CERTIFIED "AROOSTOOK" WINTER RYE
- 3.5. PERMANENT SEEDING SHALL BE APPLIED ON 4" MIN TOPSOIL AT THE FOLLOWING RATE 8 LBS EMPIRE BIRDSFOOT TREFOIL OR COMMON WHITE CLOVER PER ACRE PLUS
  - 20 LBS TALL FESCUE PER ACRE PLUS 2 LBS REDTOP OR 5 LBS RYEGRASS (PERENNIAL) PER ACRE
- 3.6. ALL SEEDING SHALL BE PERFORMED USING THE BROADCAST METHOD OR HYDROSEEDING, UNLESS OTHERWISE APPROVED.
- 3.7. ALL DISTURBED AREAS SHALL BE STABILIZED SUBSEQUENT TO SEEDING BY APPLYING 2 TONS OF STRAW MULCH PER ACRE. STRAW MULCH SHALL BE ANCHORED BY APPLYING 750 LBS OF WOOD FIBER MULCH PER ACRE WITH A HYDROSEEDER, OR TUCKING THE MULCH WITH SMOOTH DISCS OR OTHER MULCH ANCHORING TOOLS TO A DEPTH OF 3". MULCH ANCHORING TOOLS SHALL BE PULLED ACROSS SLOPES ALONG TOPOGRAPHIC CONTOURS.
- 4. ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND DRAINAGE STRUCTURES SHALL BE INSPECTED FOLLOWING EVERY RAIN EVENT, AND MAINTENANCE AND REPAIRS SHALL BE PERFORMED PROMPTLY TO MAINTAIN PROPER FUNCTION. TRAPPED SEDIMENT SHALL BE REMOVED AND DEPOSITED IN A PROTECTED AREA IN A PROPER MANNER WHICH WILL NOT RESULT IN EROSION.
- 5. TEMPORARY CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED AND GROUND COVER IS COMPLETELY REESTABLISHED.
- 6. ALL STORM INLETS TO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION.
- 7. SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY BE USED UNDER SUITABLE CONDITIONS AND IN SUFFICIENT QUANTITIES.

FOLLOWING STABILIZATION, TEMPORARY MEASURES SHALL BE REMOVED TO AVOID INTERFERENCE WITH DRAINAGE.

- 8. MULCH NETTING SUCH AS PAPER, JUTE, EXCELSIOR, COTTON OR PLASTIC MAY BE USED. STAPLE IN PLACE. OVER HAY OR STRAW MULCH. USE A DEGRADABLE NETTING IN
- 9. STABILIZATION OF STEEP SLOPES SHALL BE ACHIEVED BY APPLYING LIME AND FERTILIZER AS SPECIFIED ABOVE AND SEEDING WITH THE FOLLOWING MIXTURE:

CROWN VETCH SPREADING FESCUE

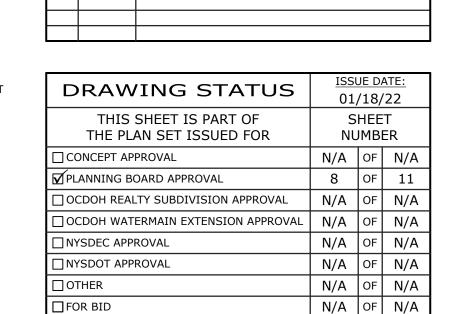
10. OPTIMUM SEEDING PERIODS ARE 3/15-6/1 AND 8/1-10/15.

## EARTHWORK CONSTRUCTION NOTES

- 1. ALL WORK TO BE PERFORMED TO THE SPECIFICATIONS OF THE TOWN OF CHESTER.
- 2. ALL TOPSOIL, ROOTS, STUMPS AND OTHER DELETERIOUS MATERIAL (IF ANY) SHALL BE REMOVED FROM ALL CONSTRUCTION AREAS.
- 3. ANY FILL BELOW BUILDINGS AND PAVEMENT TO BE COMPACTED TO 95% OF MAXIMUM DRY
- DENSITY AS DETERMINED BY MODIFIED PROCTOR COMPACTION TEST ASTM D1557.
- 4. FOOTING DRAINS SHALL CONNECT TO THE STORM DRAINAGE SYSTEM OR OTHER FREE-FLOWING OUTLET AT A MINIMUM SLOPE OF 0.5%. FOOTING DRAIN SHALL BE INSTALLED BENEATH BOTTOM
- 5. COMPLETION OF GRADING AFTER OCTOBER 15 SHALL REQUIRE MULCHING AND ANCHORING IN ACCORDANCE WITH NOTES ENTITLED "SEDIMENTATION EROSION CONTROL"
- 6. STABILIZATION OF ALL SLOPES IN EXCESS OF 3H:1V IN ACCORDANCE WITH "EROSION AND SEDIMENTATION CONTROL NOTES".
- 7. SOIL RESTORATION SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL REMAIN AS PERVIOUS SURFACES WITH A SLOPE LESS THAN 10%. SOIL RESTORATION SHALL CONSIST OF THE FOLLOWING:
- 7.A. APPLY 3 INCHES OF COMPOST OVER SUBSOIL
- 7.B. TILL COMPOST INTO SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A CAT-MOUNTED RIPPER, TRACTOR MOUNTED DISC, OR TILLER, MIXING, AND CIRCULATING AIR AND COMPOST INTO SUB-SOILS.
- 7.C. ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE ARE CLEANED OFF THE SITE.

50' MIN (PER PLAN)

- 7.D. APPLY TOPSOIL TO A DEPTH OF 6 INCHES.
- 7.E. VEGETATE IN ACCORDANCE WITH LANDSCAPE PLAN



No. DATE DESCRIPTION

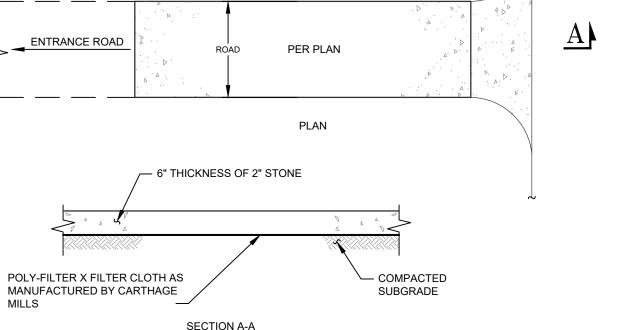
1 10/01/19 REVISED PER PB COMMENTS

4 01/18/22 REVISED PER SWPPP DESIGN

3 | 12/22/20 | REVISED BUILDING FOOTPRINT

22/19 REVISED PER REVIEW COMMENTS

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- WIDTH 24 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- SURFACE WATER ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRED PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR
- 5. WASHING WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.

TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

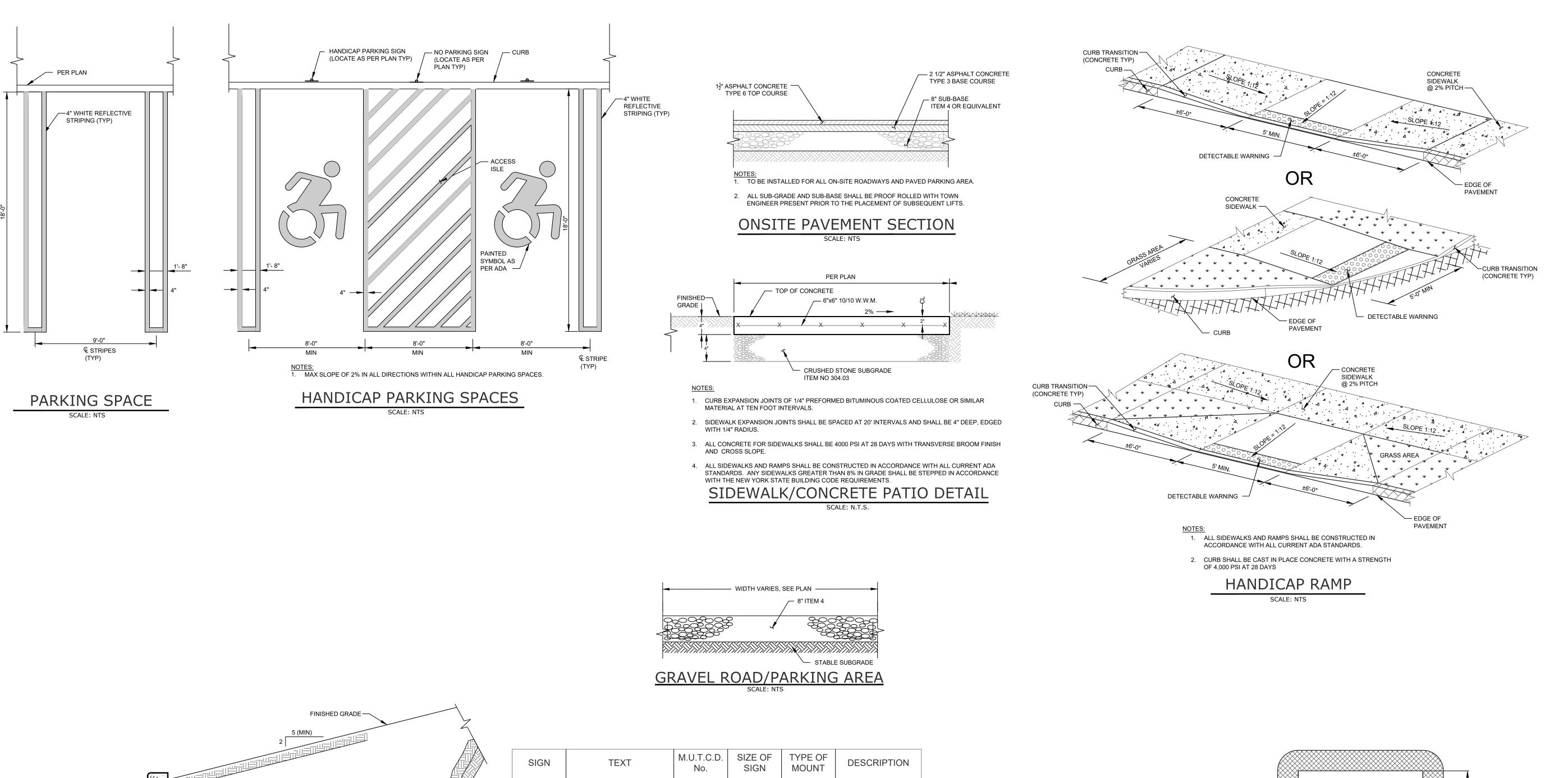
PERIODIC INSPECTIONS AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER

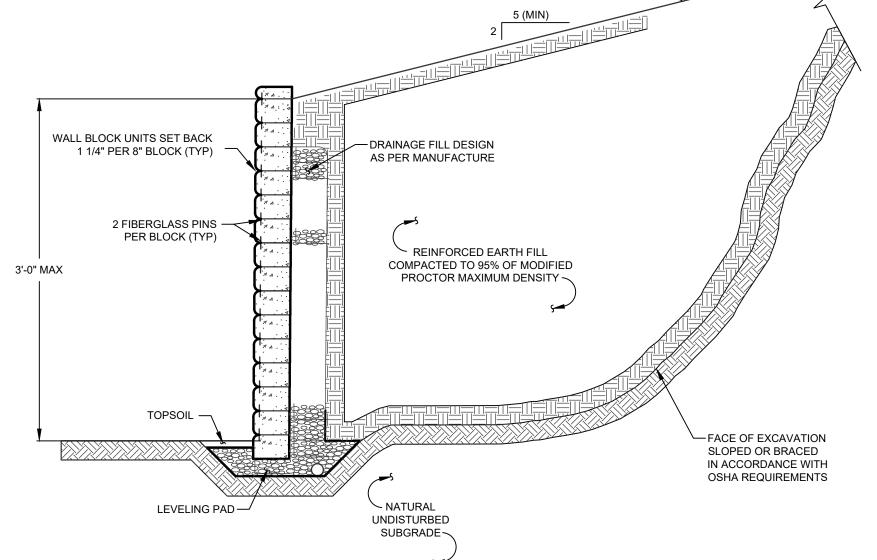
STABILIZED CONSTRUCTION ENTRANCE

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PROP	EERING RVEYING ERTIES UCCESSFUL RESULTS VALUE DESIGNS	M	ONTGOMERY OFFICE 71 CLINTON STREET ONTGOMERY, NY 12549 Ph: (845) 457-7727 WWW.EP-PC.COM		
DETAILS					
DONNELLY - SUGARLOAF 1355 KINGS HIGHWAY TOWN OF CHESTER ORANGE COUNTY, NEW YORK					
JOB #: 1246.0	DRAWN BY:	MP			
DATE: 01/07/1	SCALE:	NTS	C-302		
DEVISION:	TAVIOT				

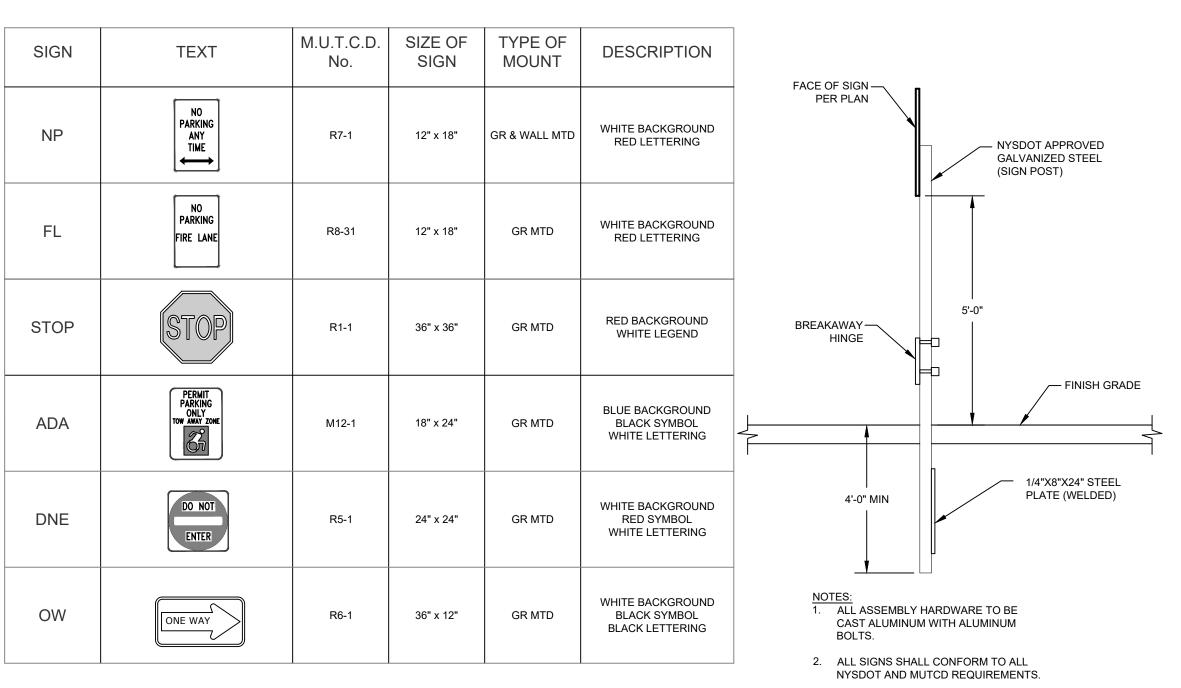
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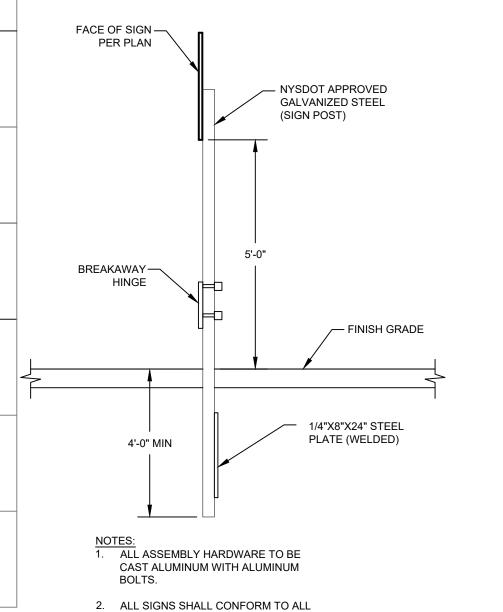


- 1. PROPOSED KEYSTONE KS HALF CENTURY RETAINING WALL SHALL BE DESIGNED AS PER THE MANUFACTURER.
- 2. FENCING SHALL BE INSTALLED FOR AS SHOWN ON THE PLANS, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 3. COLORS TO MATCH FOUNDATION STONE.
- 4. FOR WALLS OVER HEIGHTS OF 4'-0" SEE SPECIFIC ENGINEERED WALL DETAILS AS PREPARED BY OTHERS.

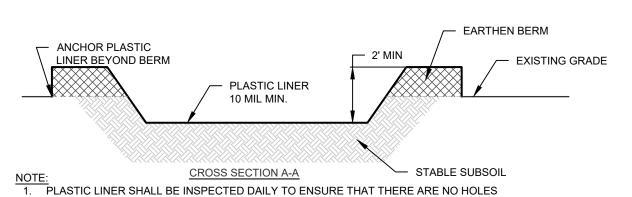
TYPICAL MSE RETAINING WALL



SIGN SCHEDULE



8' MIN



2. WASHOUT FACILITY SHALL BE LOCATED A MINIMUM OF 100 FEET FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS OR OTHER SURFACE WATERS.

OR TEARS. IF ANY HOLES OF TEARS ARE FOUND THE LINER SHALL BE REPLACED AND

CLEANED IMMEDIATELY. THE PLASTIC LINER SHALL BE REPLACED WITH EACH

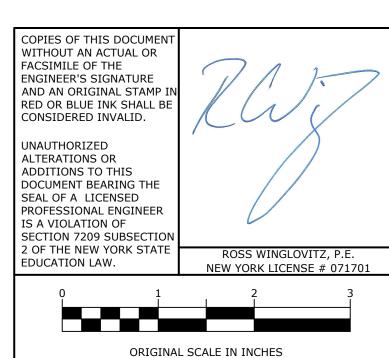
CLEANING OF THE WASHOUT FACILITY.

- 3. ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75% OF THE STORAGE CAPACITY OF THE STRUCTURE IS FILLED. ANY EXCESS WASH WATER SHALL BE PUMPED INTO A CONTAINMENT VESSEL AND PROPERLY DISPOSED OF.
- 4. DISPOSE OF THE HARDENED MATERIAL OFF-SITE IN A CONSTRUCTION/DEMOLITION LANDFILL.

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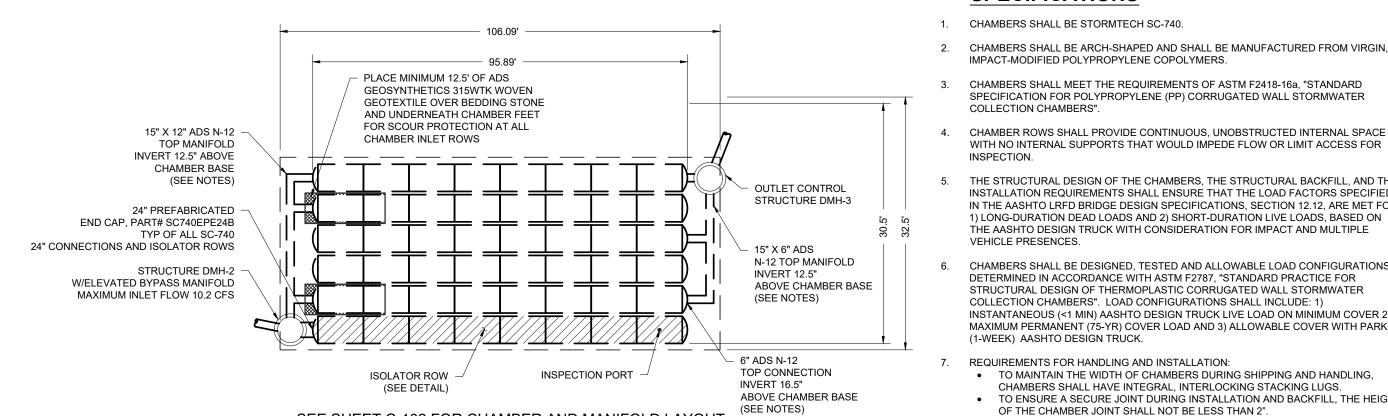
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DET	AILS		
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DRAWN BY	МР		

JOB #: 01/07/19

13-3-2



SEE SHEET C-102 FOR CHAMBER AND MANIFOLD LAYOUT

- **PROPOSED LAYOUT** #7 FOR MANIFOLD SIZING GUIDANCE. STORMTECH SC-740 CHAMBER
  - DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND
  - THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
  - ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH SHEET
- DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION
- USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.

SC-740 STORMTECH CHAMBER

IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.

CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD

SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER

CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE

THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE

INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED

IN THE AASHTO LIRED BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR

CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS

INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2)

MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED

1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON

THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE

DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR

STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER

TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING,

ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE

APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:

THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY

12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR

FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR

LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND

THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE

ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE

CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR

THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED

CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.

TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT

TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD

COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1)

OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".

WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR

**SPECIFICATIONS** 

VEHICLE PRESENCES.

(1-WEEK) AASHTO DESIGN TRUCK.

OR YELLOW COLORS.

PROFESSIONAL ENGINEER.

THERMOPI ASTIC PIPE

9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

- IMPORTANT NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-740 SYSTEM STORMTECH SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS
- STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- 3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
- STONESHOOTER LOCATED OFF THE CHAMBER BED. BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.

BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.

- 4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- 5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.

INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)

MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)

MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)

MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)

MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)

MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)

COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.

MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.

STORMTECH SC-740 END CAPS

STONE ABOVE (in)

STONE BELOW (ir

SYSTEM AREA (ft²)

SYSTEM PERIMETER (ft)

TOP OF SC-740 CHAMBER

12" TOP MANIFOLD INVERT

BOTTOM OF SC-740 CHAMBER

24" ISOLATOR ROW CONNECTION INVERT

% STONE VOID

PROPOSED ELEVATIONS

TOP OF STONE

507.00 BOTTOM OF STONE

5518

512.00

511.50

510.50

- 7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE ALL

#### NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- THE USE OF CONSTRUCTION EQUIPMENT OVER SC-740 CHAMBERS IS LIMITED:
- NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
- NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE". • WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780
- 3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD, ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT

#### ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE.  MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 <sup>1</sup> A-1, A-2-4, A-3 OR AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
В	<b>EMBEDMENT STONE:</b> FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
А	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2,3</sup>

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR. 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGNS, CONTACT STORMTECH FOR

→ 51" (1295 mm) — →

4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION

(300 mm) MIN

#### AROUND CLEAN, CRUSHED, ANGULAR STONE IN A & B LAYERS PAVEMENT LAYER (DESIGNED BY SITE DESIGN ENGINEER) PERIMETER STONE \*TO BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCU (SEE NOTE 4) INCREASE COVER TO 24" (600 mm) (450 mm) MIN\* 12" (300 mm) MIN **EXCAVATION WALL** (CAN BE SLOPED OR VERTICAL)

#### **NOTES:**

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"

SUBGRADE SOILS

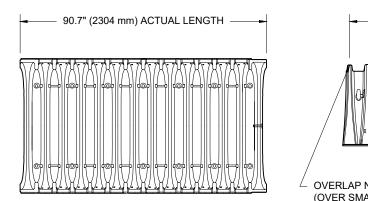
- 2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". 3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH
- CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. 4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS

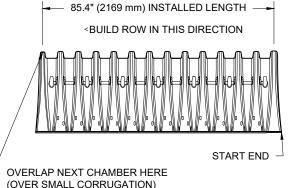
─ SC-740 END CAP

12" (300 mm) MIN —

- 5. REQUIREMENTS FOR HANDLING AND INSTALLATION: TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
- TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2"
- TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 550 LBS/IN/IN. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

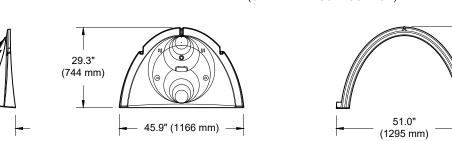
### SC-740 TECHNICAL SPECIFICATION

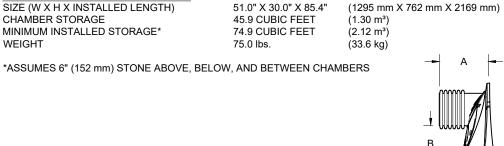




30.0"

(762 mm)





PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B" PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

PART #	STUB	Α	В	С
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	
SC740EPE06B / SC740EPE06BPC	0 (130 11111)			0.5" (13 mm)
SC740EPE08T /SC740EPE08TPC	9" (200 mm)	12.2" (210 mm)	16.5" (419 mm)	
SC740EPE08B / SC740EPE08BPC	8" (200 mm)	12.2" (310 mm)		0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	12 4" (240 mm)	14.5" (368 mm)	
SC740EPE10B / SC740EPE10BPC	10" (250 mm)	13.4" (340 mm)		0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	10" (200)	00 mm) 14.7" (373 mm)	12.5" (318 mm)	
SC740EPE12B / SC740EPE12BPC	12" (300 mm)	14.7 (3/3/11111)		1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	45" (075)	10 4" (467 mm)	9.0" (229 mm)	
SC740EPE15B / SC740EPE15BPC	15" (375 mm)	18.4" (467 mm)		1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	
SC740EPE18B / SC740EPE18BPC	16 (430 11111)	19.7 (300 11111)		1.6" (41 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)		0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT

> COVER ENTIRE ISOLATOR ROW WITH ADS -GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE

> > 8' (2.4 m) MIN WIDE

CATCH BASIN

OR MANHOLE

CONCRETE COLLAR

CONCRETE SLAB

8" (200 mm) MIN THICKNESS

FLEXSTORM CATCH IT

6" (150 mm) INSERTA TEE

**CORRUGATION CREST** 

PART# 6P26FBSTIP\*

WITH USE OF OPEN GRATE

INSERTA TEE TO BE CENTERED ON

PART# 6212NYFX

**PAVEMENT** 

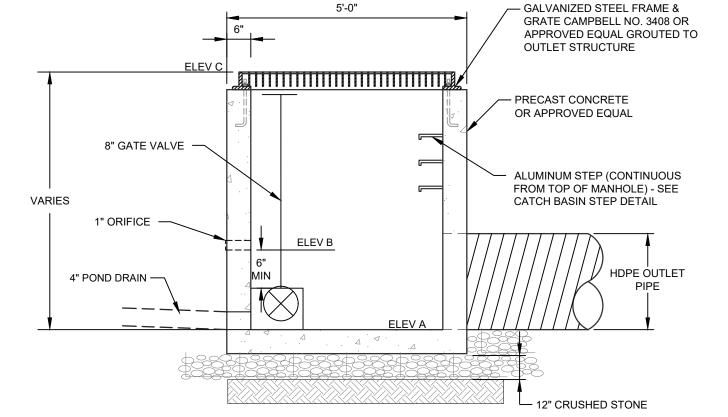
\* FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL. NOTE: ALL DIMENSIONS ARE NOMINAL

ELEVATED BYPASS MANIFOLD

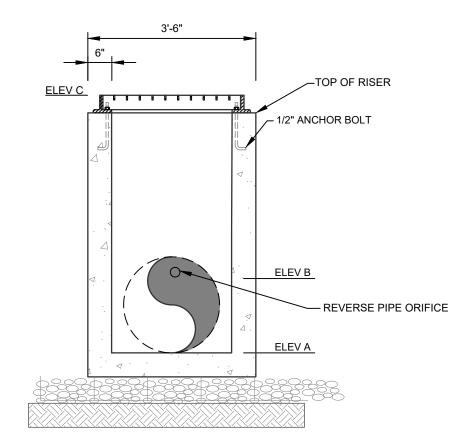
SUMP DEPTH TBD BY

SITE DESIGN ENGINEER

(24" [600 mm] MIN RECOMMENDED)



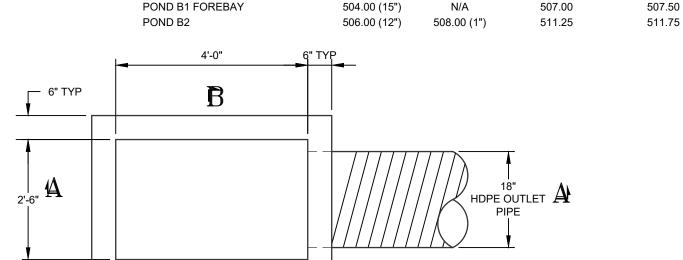
**SECTION A-A** 



**SECTION B-B** 

LENGTH

FI EVATION



ELEV A (Ø)

ELEV B (Ø)

FLEV C

OPTIONAL INSPECTION PORT

TWO LAYERS OF ADS

5' (1.5 m) MIN WIDE

WITHOUT SEAMS

CONCRETE COLLAR NOT REQUIRED

12" (300 mm) NYLOPLAST INLINE DRAIN

(COVER OR GRATE SHALL HAVE HS-20

\* THE PART# 2712AG6IPKIT CAN BE

**USED TO ORDER ALL NECESSARY** 

COMPONENTS FOR A SOLID LID

INSPECTION PORT INSTALLATION

BODY W/SOLID HINGED COVER OR GRATE

FOR UNPAVED APPLICATIONS

PART# 2712AG6IP\*

GRATE: 1299CGS

LOAD RATING)

SOLID COVER: 1299CGC\*

- 6" (150 mm) SDR35 PIPE

SC-740 CHAMBER

CONTINUOUS FABRIC

**GEOSYNTHETICS 315WTK** 

FOUNDATION STONE AND

WOVEN GEOTEXTILE BETWEEN

FOR STORMTECH

INSTRUCTIONS.

DOWNLOAD THE **INSTALLATION APP**  SC-740 END CAP

PLAN VIEW

SC-740 CHAMBER

SC-740 ISOLATOR ROW DETAIL

SC-740 6" (150 mm) INSPECTION PORT DETAIL

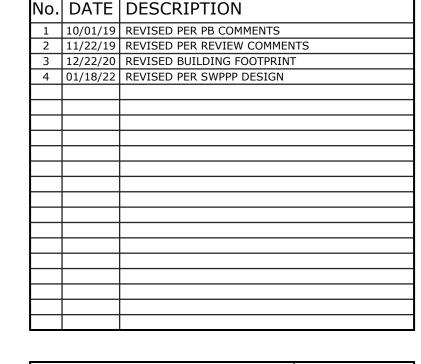
18" (450 mm) MIN WIDTH

24" (600 mm) HDPE ACCESS PIPE REQUIRED

USE FACTORY PRE-FABRICATED END CAP

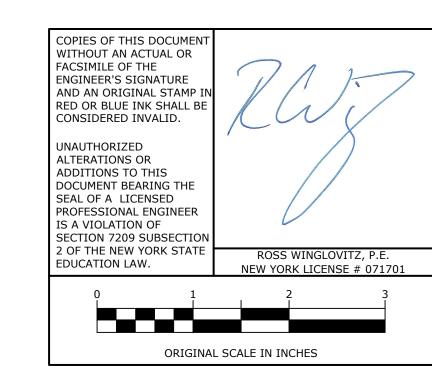
PART #: SC740EPE24B

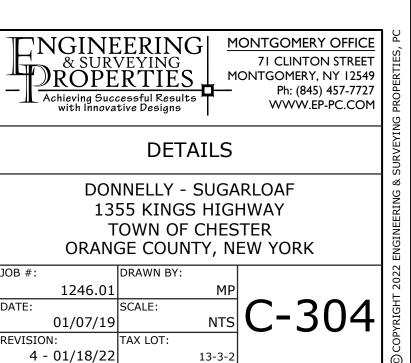
1. FOR LENGTH AND SLOPE OF OUTLET PIPES SEE PLAN. SCALE: NTS



ISSUE DATE: DRAWING STATUS 01/18/22 THIS SHEET IS PART OF SHEET NUMBER THE PLAN SET ISSUED FOR N/A OF N/A CONCEPT APPROVAL ✓ PLANNING BOARD APPROVAL 10 |OF| 11 OCDOH REALTY SUBDIVISION APPROVAL N/A OF N/A □OCDOH WATERMAIN EXTENSION APPROVAL | N/A OF N/A N/A OF N/A NYSDEC APPROVAL N/A OF N/A □NYSDOT APPROVA □ OTHER N/A OF N/A N/A OF N/A ☐ FOR BID N/A OF N/A ☐ FOR CONSTRUCTION

THIS PLAN SET HAS BEEN ISSUED SPECIFICALLY FOR THE APPROVAL OR ACTION NOTED ABOVE AND SHALL NOT BE USED FOR ANY OTHER PURPOSE THIS SHEET SHALL BE CONSIDERED INVALID UNLESS ACCOMPANIED BY ALL SHEETS OF THE DENOTED PLAN SET(S).





### INSPECTION & MAINTENANCE

### STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT

A. INSPECTION PORTS (IF PRESENT) A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED

(310 mm)

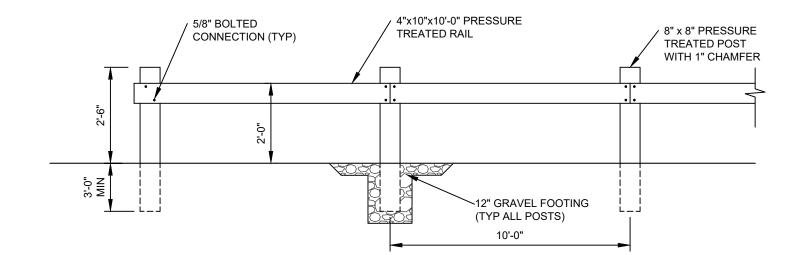
NOMINAL CHAMBER SPECIFICATIONS

- USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD
- LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT
- A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE ) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE
- ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO
- BY SITE DESIGN ENGINEER 12" (300 mm) MIN STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN C. VACUUM STRUCTURE SUMP AS REQUIRED
  - STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS. STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

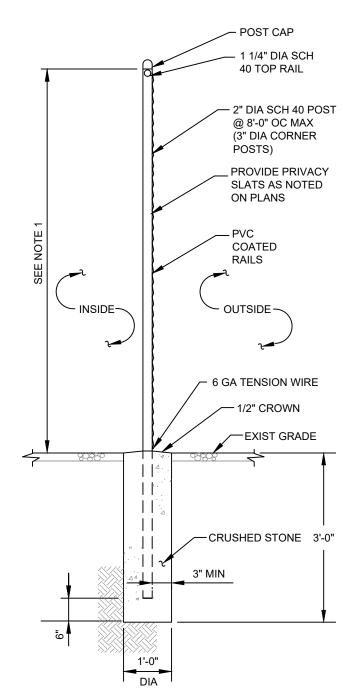
DEPTH OF STONE TO BE DETERMINED

- 1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER
- 2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS

# ADS SC-740 INFILTRATION CHAMBER DETAILS



# WOOD GUIDERAIL SCALE: NTS



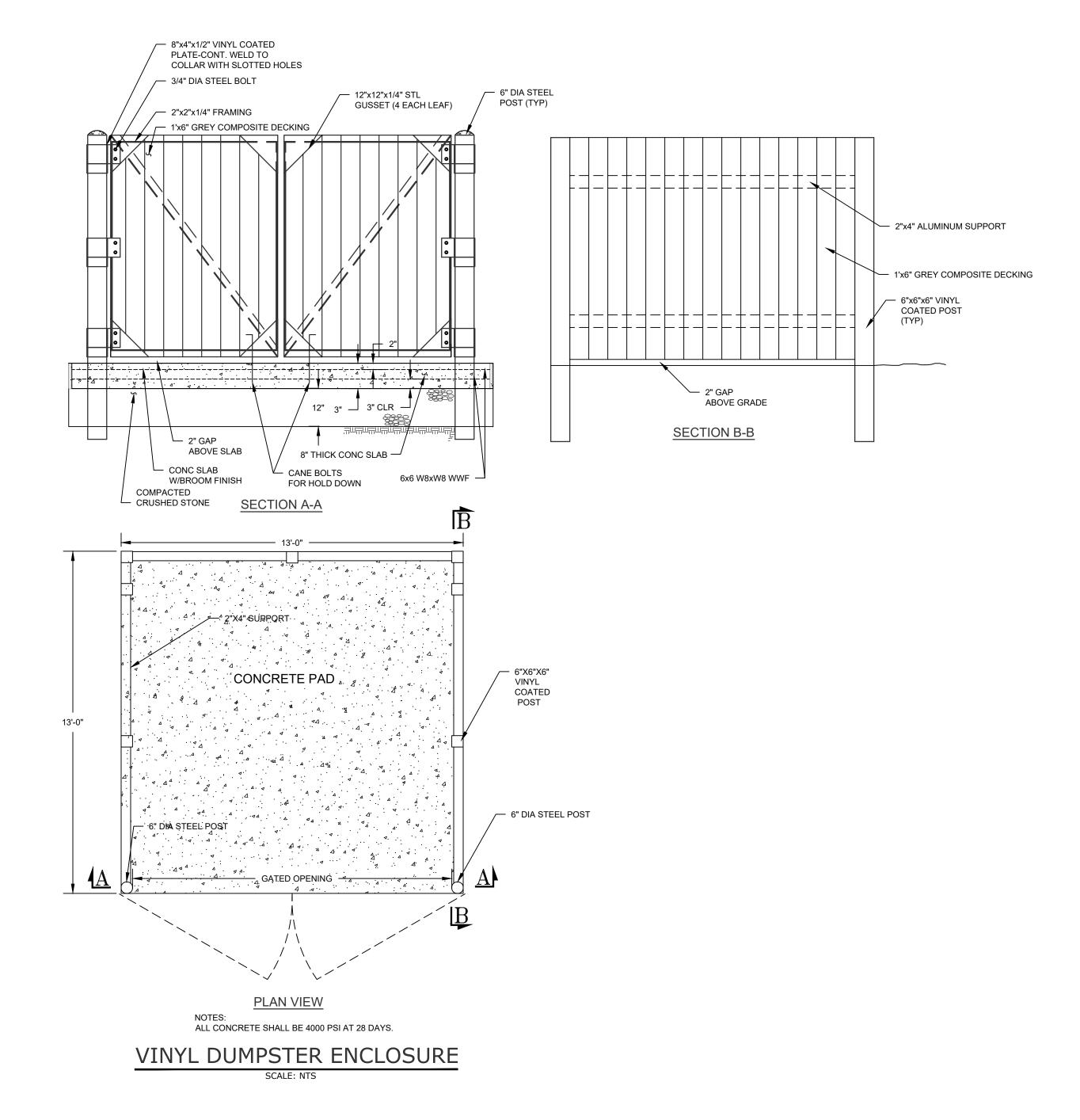
NOTES:

1. CHAIN LINK FENCE HEIGHT PER PLAN

- 2. PRIVACY SLATS COLOR SHALL BE DARK GREEN.
- 3. TO BE INSTALLED AROUND BASKETBALL COURT AND SEWER PUMP STATION.

CHAIN LINK FENCE DETAIL

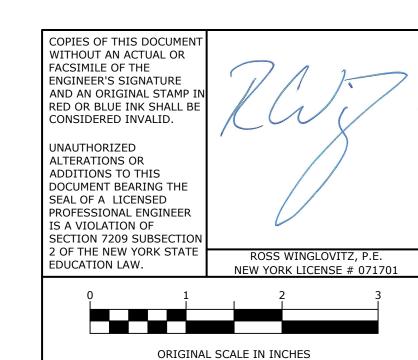
SCALE: NTS



No.	DATE	DESCRIPTION
1	10/01/19	REVISED PER PB COMMENTS
2	11/22/19	REVISED PER REVIEW COMMENTS
3	12/22/20	REVISED BUILDING FOOTPRINT
4	01/18/22	REVISED PER SWPPP DESIGN

DRAWING STATUS	ISSUE DATE: 01/18/22				
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR	SHEET NUMBER				
CONCEPT APPROVAL	N/A	OF	N/A		
☑ PLANNING BOARD APPROVAL	11	OF	11		
OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A		
OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A		
☐ NYSDEC APPROVAL	N/A	OF	N/A		
NYSDOT APPROVAL	N/A	OF	N/A		
OTHER	N/A	OF	N/A		
☐ FOR BID	N/A	OF	N/A		
☐ FOR CONSTRUCTION	N/A	OF	N/A		
THIS PLAN SET HAS BEEN ISSUED SPECIFICALLY FOR THE					

THIS PLAN SET HAS BEEN ISSUED SPECIFICALLY FOR THE APPROVAL OR ACTION NOTED ABOVE AND SHALL NOT BE USED FOR ANY OTHER PURPOSE.
THIS SHEET SHALL BE CONSIDERED INVALID UNLESS ACCOMPANIED BY ALL SHEETS OF THE DENOTED PLAN SET(S).





#: DRAWN BY: MP : 1246.01 MP : SCALE: NTS C-30

13-3-2