

NO SITE PREPARATION OR CONSTRUCTION, INCLUDING UTILITY CONNECTIONS, SHALL COMMENCE UNTIL A VALID HIGHWAY WORK PERMIT HAS BEEN SECURED FROM THE ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS UNDER SECTION 136 OF THE HIGHWAY LAW.

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
5	04/20/22	REVISED PER ENGINEER COMMENTS 03/01/22
6	06/21/22	REVISED PER PB ENGINEER COMMENTS

DRAWING STATUS	ISS	ISSUE DATE:		
DRAWING STATUS	06/21/22			
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR	SHEET NUMBER			
CONCEPT APPROVAL	N/A	OF	N/A	
☑ PLANNING BOARD APPROVAL	4	OF	13	
OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A	
☑OCDOH WATERMAIN EXTENSION APPROVAL	3	OF	5	
☐ 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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COPIES OF THIS DOCUMENT WITHOUT AN ACTUAL OR FACSIMILE OF THE
ENGINEER'S SIGNATURE
AND AN ORIGINAL STAMP IN
RED OR BLUE INK SHALL BE CONSIDERED INVALID.

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209 SUBSECTION

ROSS WINGLOVITZ, P.E.

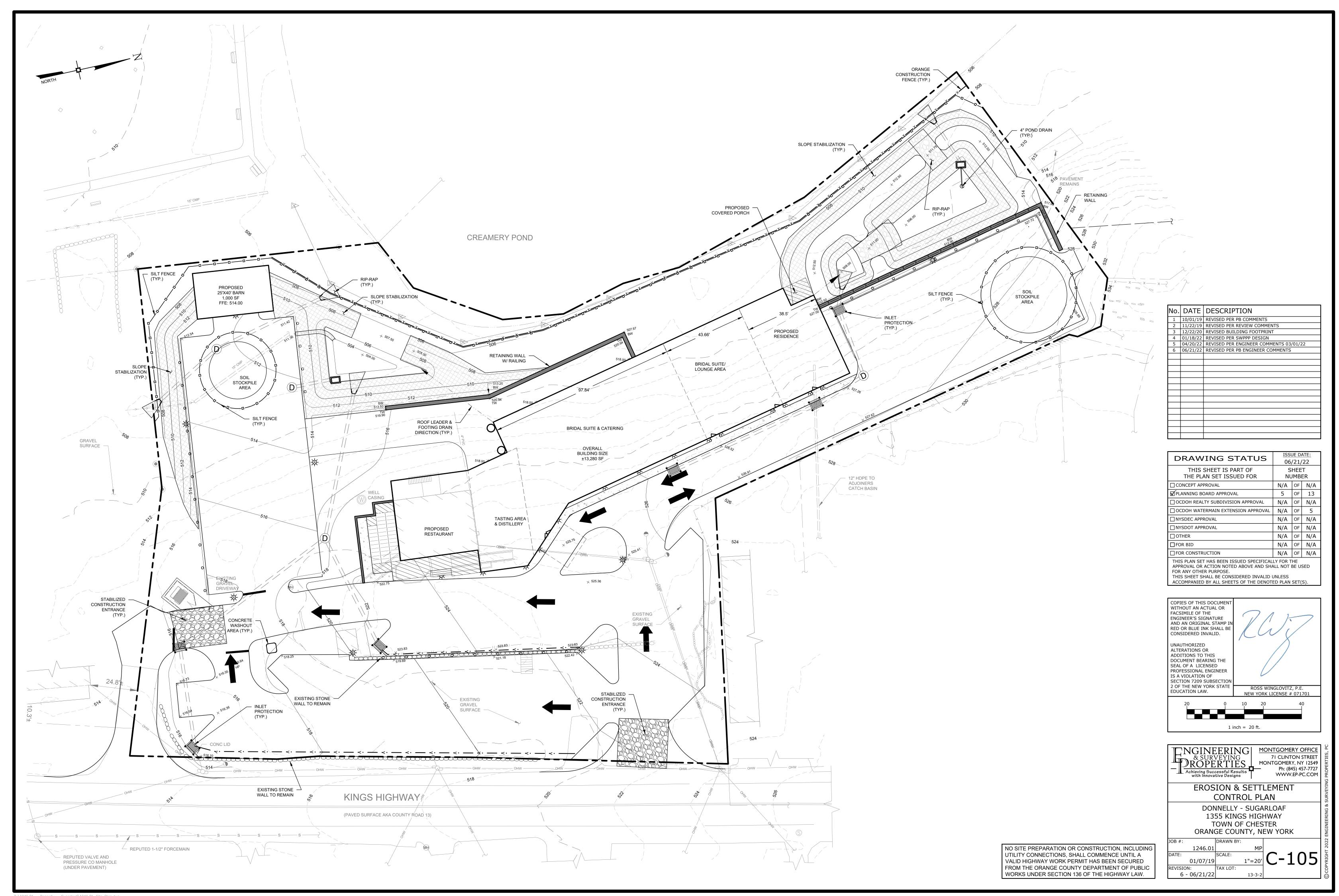
1 inch = 20 ft.

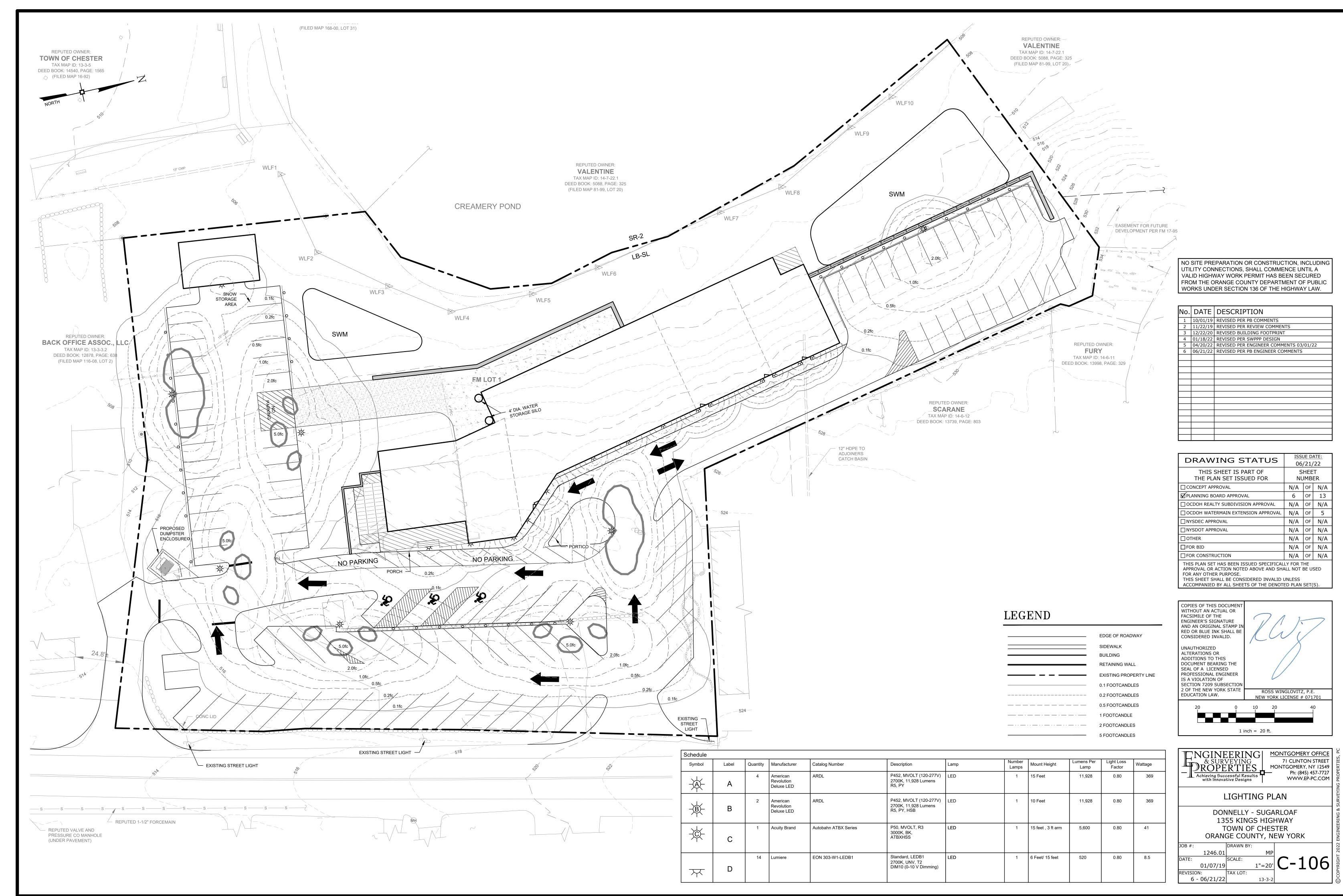
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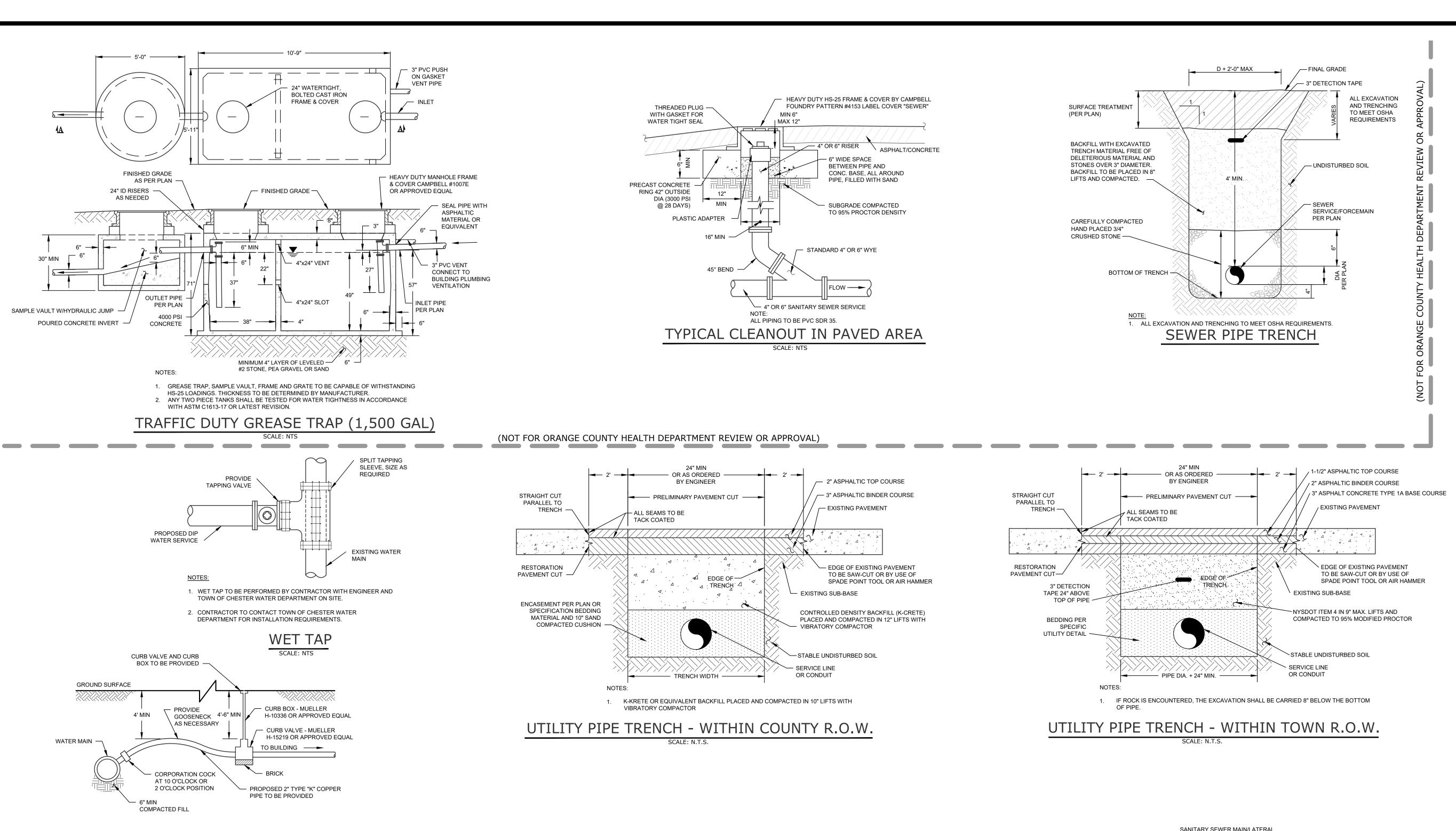
## WATER MAIN EXTENSION PLAN

DONNELLY - SUGARLOAF 1355 KINGS HIGHWAY TOWN OF CHESTER ORANGE COUNTY, NEW YORK

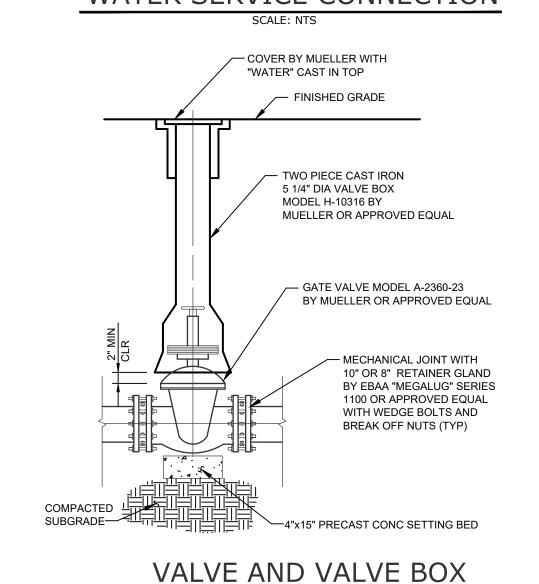
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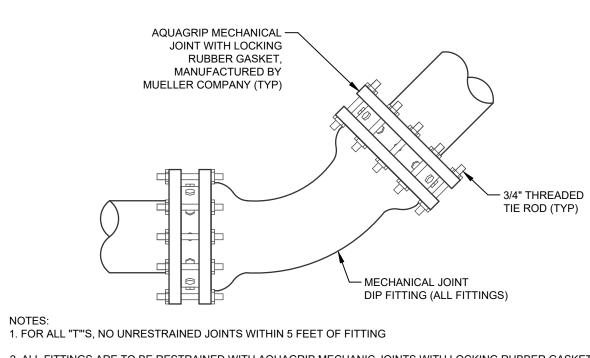






# WATER SERVICE CONNECTION



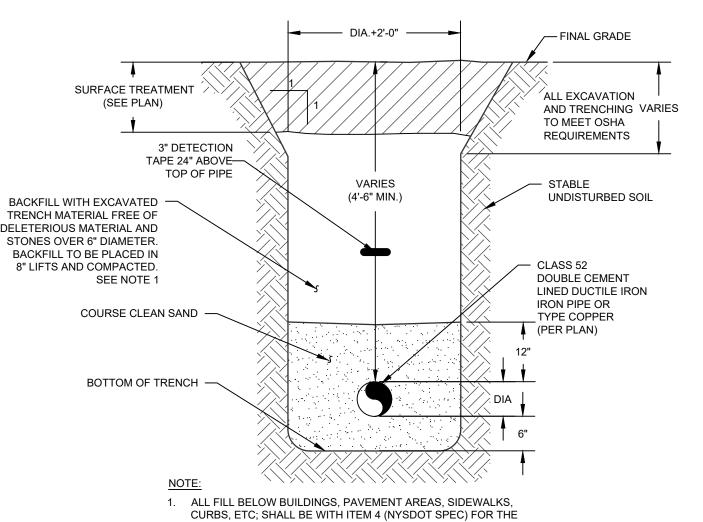


2. ALL FITTINGS ARE TO BE RESTRAINED WITH AQUAGRIP MECHANIC JOINTS WITH LOCKING RUBBER GASKETS AS MANUFACTURED BY MUELLER COMPANY. IN ADDITION ALL PIPE JOINTS SHALL BE RESTRAINED AS FOLLOWS:

8" DIP RESTRAINTS
45° ALL JOINTS WITHIN 13 FEET OF FITTING
22.5° ALL JOINTS WITHIN 7 FEET OF FITTING
11.25° ALL JOINTS WITHIN 4 FEET OF FITTING
8X6 REDUCER ALL 8" BRANCH JOINTS WITHIN 34 FEET OF FITTING
8X8 TEE ALL 8" BRANCH JOINTS WITHIN 64 FEET OF FITTING
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

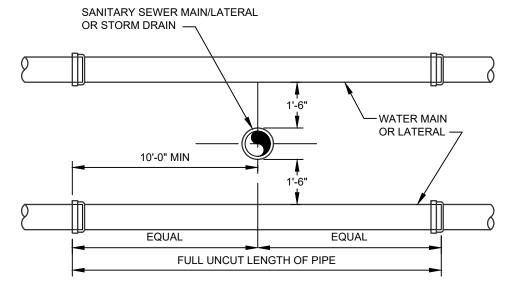


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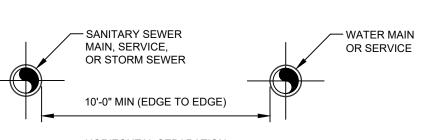
1. ALL FILL BELOW BUILDINGS, PAVEMENT AREAS, SIDEWALKS, CURBS, ETC; SHALL BE WITH ITEM 4 (NYSDOT SPEC) FOR THE FULL DEPTH THE EXCAVATION. BACKFILL SHALL BE PLACED IN 8" MAXIMUM LIFTS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR TEST.

2. IF ROCK IS ENCOUNTERED, THE EXCAVATION SHALL BE CARRIED 8" BELOW THE BOTTOM OF PIPE

WATER PIPE TRENCH



VERTICAL SEPARATION



HORIZONTAL SEPARATION
NOTE:

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

WATER/SEWER SEPARATION REQUIREMENTS



- CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING WATER AND SEWER UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR TO CALL UNDERGROUND MARK-OUT AT LEAST 2 DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION AT 1-800-962-7962 FOR COMPLETE UTILITIES MARKOUT.
- 3. CONTRACTOR TO CONTACT TOWN OF CHESTER WATER DEPARTMENT AT (845) 469-7000 EXT. 322 AT LEAST 2 DAYS PRIOR TO CONSTRUCTION.
- 4. WATER MAIN 4" OR LARGER TO BE CLASS 52 BITUMINOUS COATED DOUBLE CEMENT LINED DUCTILE IRON PIPE.

BY A LICENSED DESIGN PROFESSIONAL.

TO BE WITNESSED.

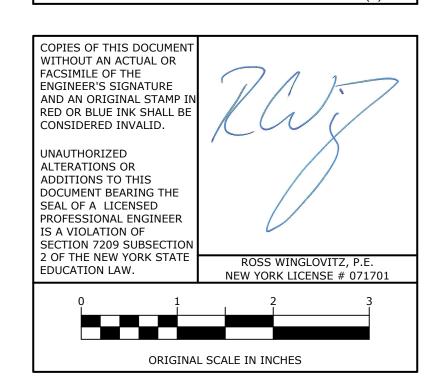
- 5. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY OF ANY DEVIATION FROM HORIZONTAL OR VERTICAL ALIGNMENTS WITH REGARDS TO EXISTING UTILITIES BEFORE PROCEEDING.
- A CERTIFIED AS BUILT MAP OF THE WATER SYSTEM IMPROVEMENTS
   SHALL BE PROVIDED TO THE TOWN OF CHESTER WATER DEPARTMENT
- 7. ALL PIPE, FIXTURES AND FITTINGS MUST COMPLY WITH THE FEDERAL "SAFE DRINKING WATER ACT", SECTION 1417 WHICH REQUIRES ALL SURFACES IN CONTACT WITH POTABLE WATER 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
- 9. THE TOWN OF CHESTER COMMISSIONER OR PUBLIC WORKS OR HIS DESIGNATED REPRESENTATIVE MUST ACCEPT HYDROSTATIC AND
- 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.

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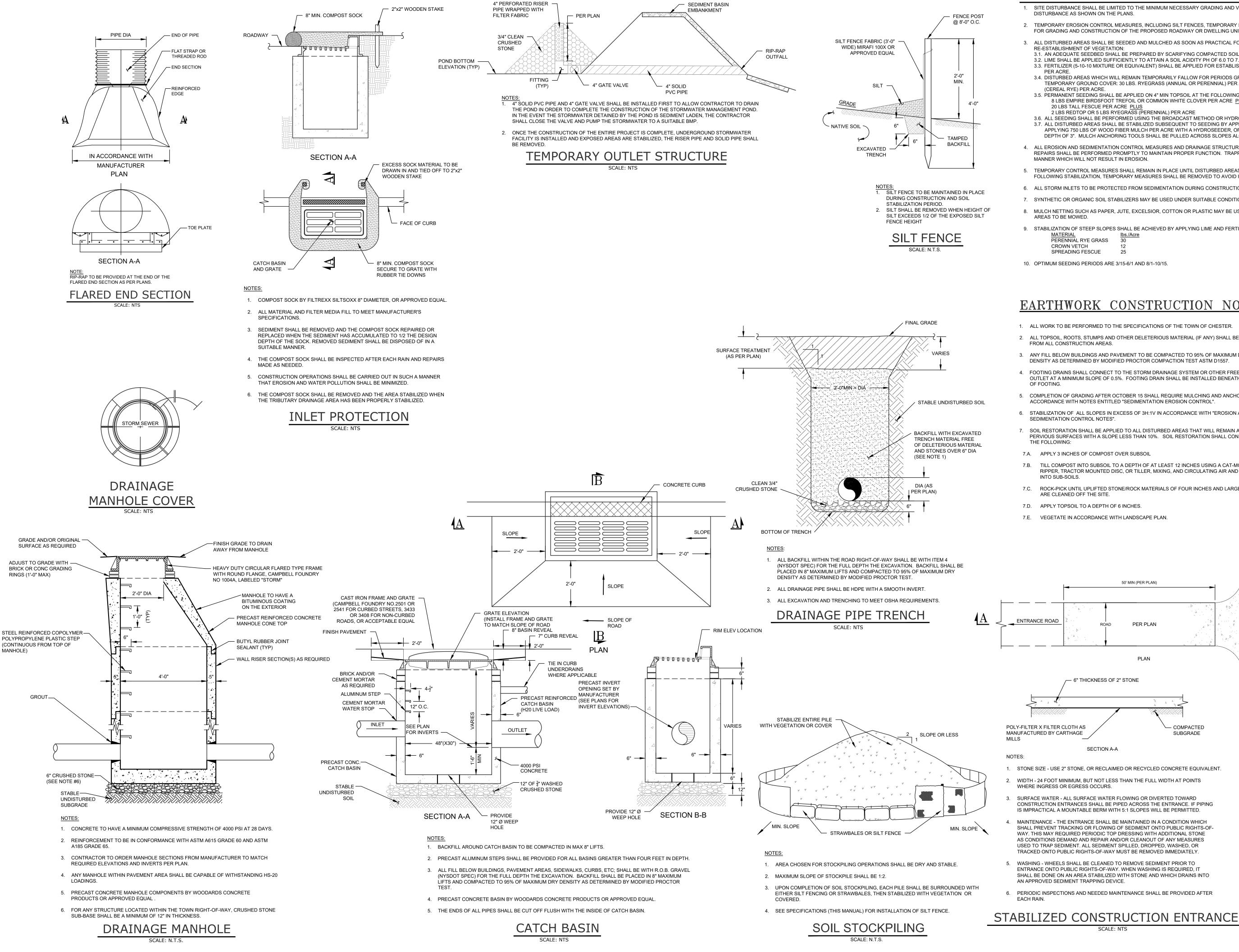




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6 - 06/21/22





## **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.

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22/19 REVISED PER REVIEW COMMENTS

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ISSUE DATE:

06/21/22

SHEET

NUMBER

N/A OF N/A

9 OF 13

N/A OF N/A

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DRAWING STATUS

THE PLAN SET ISSUED FOR

CONCEPT APPROVAL

▼PLANNING BOARD APPROVAL

THIS SHEET IS PART OF

3 | 12/22/20 | REVISED BUILDING FOOTPRINT

# 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)

PER PLAN

PLAN

COMPACTED

SUBGRADE

7.D. APPLY TOPSOIL TO A DEPTH OF 6 INCHES.

**ENTRANCE ROAD** 

7.E. VEGETATE IN ACCORDANCE WITH LANDSCAPE PLAN

- 6" THICKNESS OF 2" STONE

SECTION A-A

WIDTH - 24 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS

CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING

SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-

IS IMPRACTICAL A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.

MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH

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

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

ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT

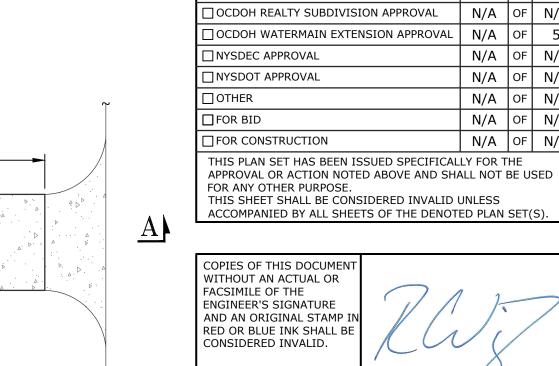
SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO

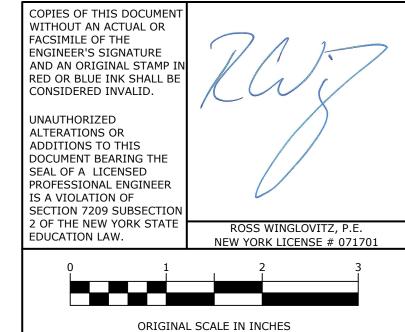
PERIODIC INSPECTIONS AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER

SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD

WHERE INGRESS OR EGRESS OCCURS.

AN APPROVED SEDIMENT TRAPPING DEVICE.



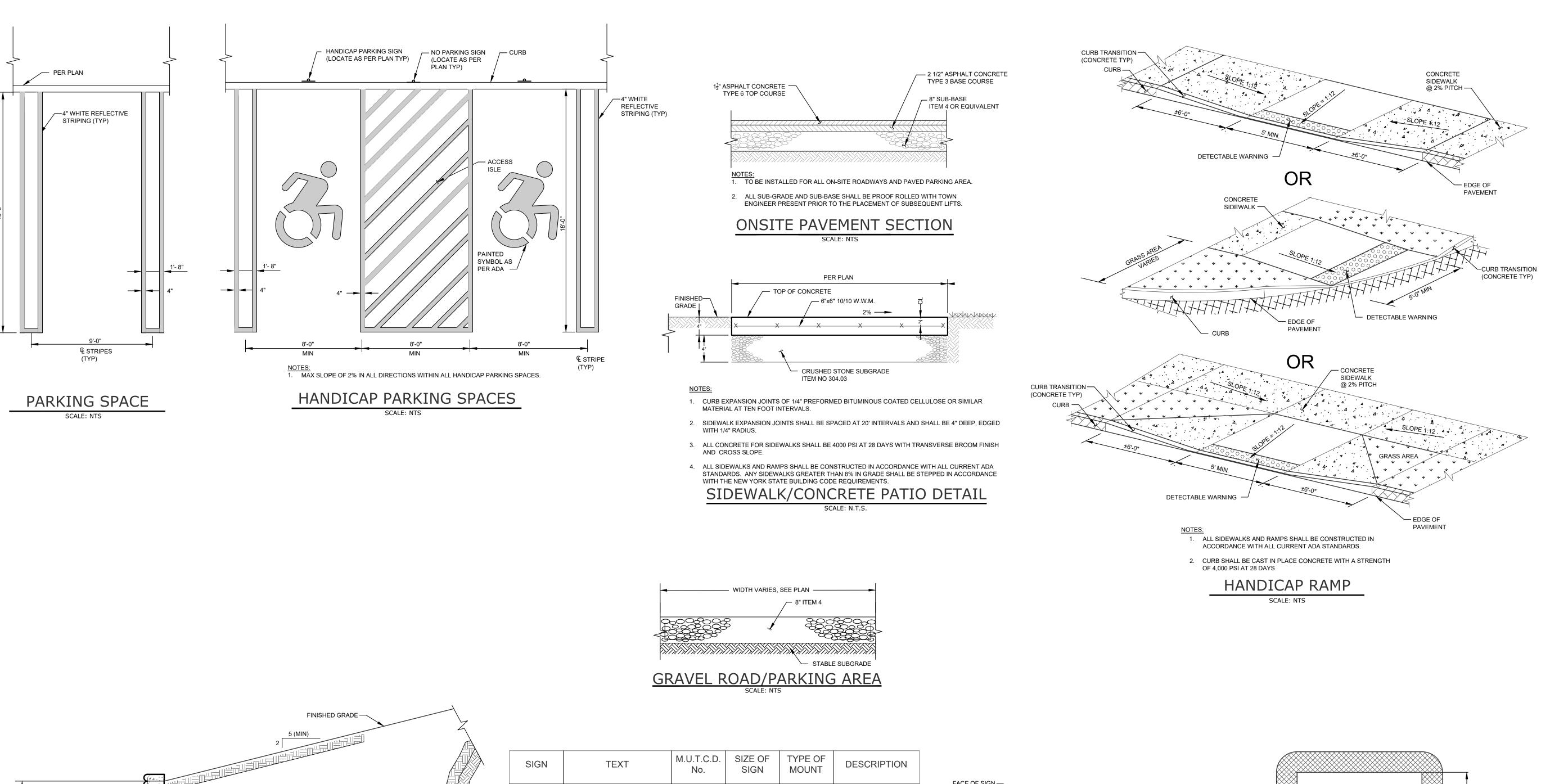


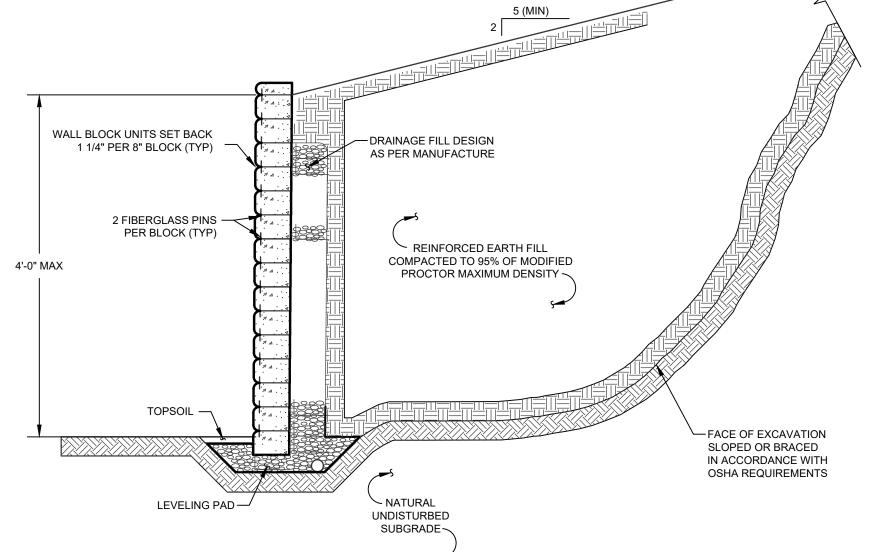
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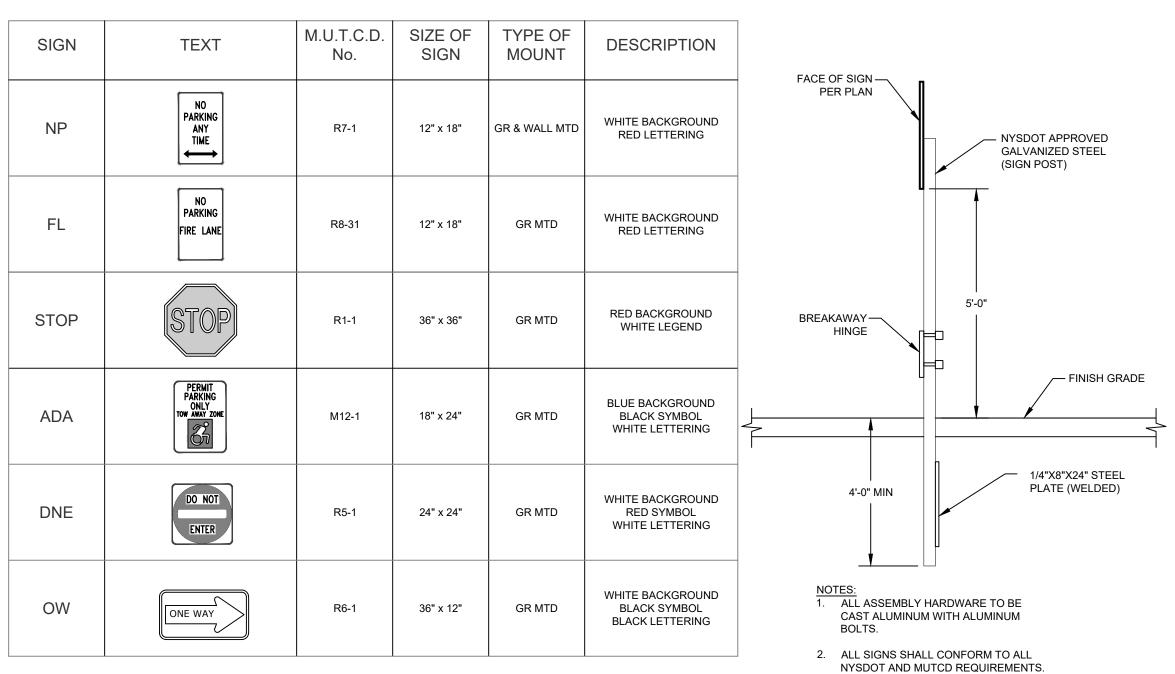
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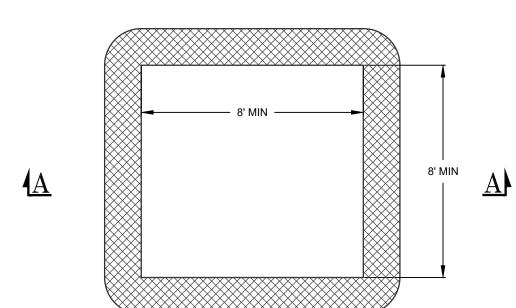


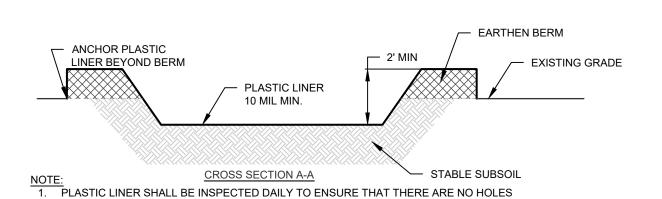
- 1. PROPOSED KEYSTONE KS HALF CENTURY RETAINING WALL SHALL BE DESIGNED AS PER THE MANUFACTURER.
- 2. FENCING SHALL BE INSTALLED FOR AS SHOWN ON THE PLANS, IN ACCORDANCE WITH MANUFACTURER'S
- RECOMMENDATIONS. 3. COLORS TO MATCH FOUNDATION STONE.
- 4. FOR WALLS OVER HEIGHTS OF 4'-0" SEE SPECIFIC ENGINEERED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

TYPICAL MSE RETAINING WALL



SIGN SCHEDULE





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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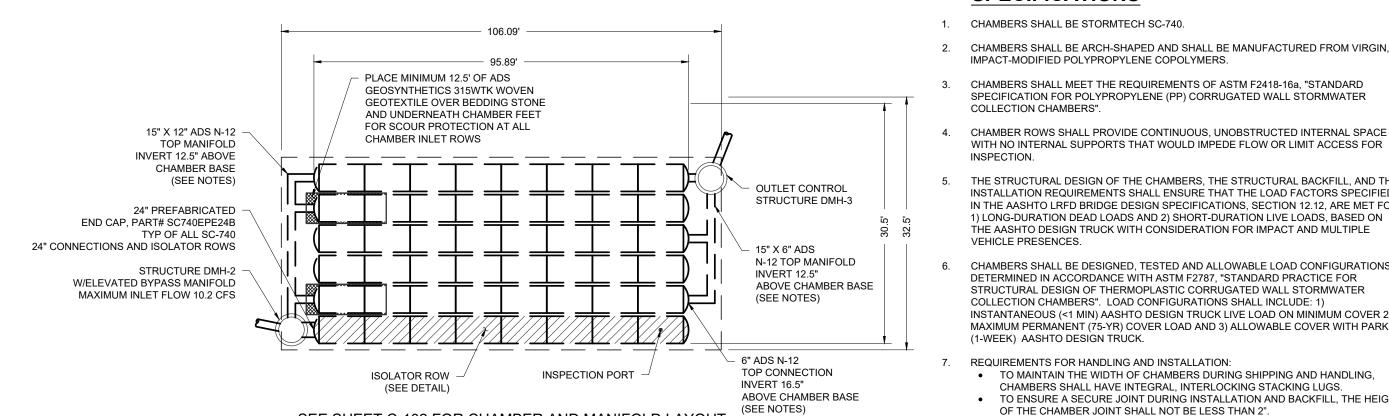
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ORANGE COUNTY, NEW YORK 6 - 06/21/22 13-3-2



SEE SHEET C-102 FOR CHAMBER AND MANIFOLD LAYOUT

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH SHEET #7 FOR MANIFOLD SIZING GUIDANCE.
  - DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL
  - PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD. THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
    - PROFESSIONAL ENGINEER. THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
      - THERMOPI ASTIC PIPE THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE 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:

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.

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 COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".

BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.

- 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 FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- 4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.

INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)

MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)

MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)

MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)

MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)

MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)

5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.

PROPOSED LAYOUT

5518

512.00

511.50

510.50

STORMTECH SC-740 CHAMBER

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

STORMTECH SC-740 END CAPS

- 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.

#### 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 M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
Α	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>

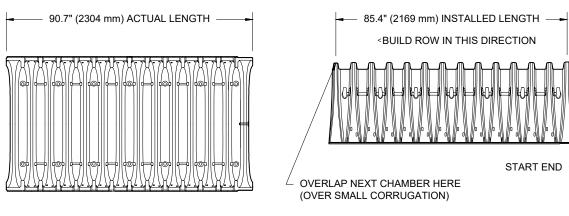
THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".

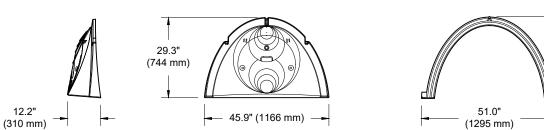
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR. 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR
- 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

#### ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE ALL 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) DEPTH OF STONE TO BE DETERMINED BY SITE DESIGN ENGINEER 12" (300 mm) MIN STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS ─ SC-740 END CAP 12" (300 mm) MIN ————— 51" (1295 mm) — = SUBGRADE SOILS (300 mm) MIN **NOTES:**

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

SIZE (W X H X INSTALLED LENGTH 51.0" X 30.0" X 85.4" (1295 mm X 762 mm X 2169 mm) CHAMBER STORAGE 45.9 CUBIC FEET MINIMUM INSTALLED STORAGE\* 74.9 CUBIC FEET \*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

NOMINAL CHAMBER SPECIFICATIONS

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"

TINE-CORED LIND OALO LIND WITH TO				
PART #	STUB	A	В	С
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	
SC740EPE06B / SC740EPE06BPC	0 (130 11111)	10.5 (211 11111)		0.5" (13 mm)
SC740EPE08T /SC740EPE08TPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	
SC740EPE08B / SC740EPE08BPC	0 (200 111111)	12.2 (31011111)		0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	
SC740EPE10B / SC740EPE10BPC	10 (230 111111)	(250 11111) 15.4 (540 11111)		0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	300 mm) 14.7" (373 mm)	12.5" (318 mm)	
SC740EPE12B / SC740EPE12BPC	12 (300 11111)	14.7 (3/3/11111)		1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	375 mm) 18.4" (467 mm)	9.0" (229 mm)	
SC740EPE15B / SC740EPE15BPC	13 (3/3 11111)	10.4 (407 11111)		1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	
SC740EPE18B / SC740EPE18BPC	10 (430 11111)	13.7 (300 11111)		1.6" (41 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)		0.1" (3 mm)

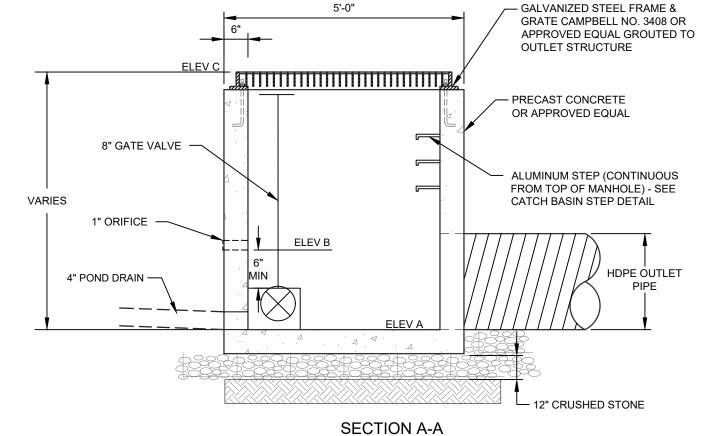
ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT

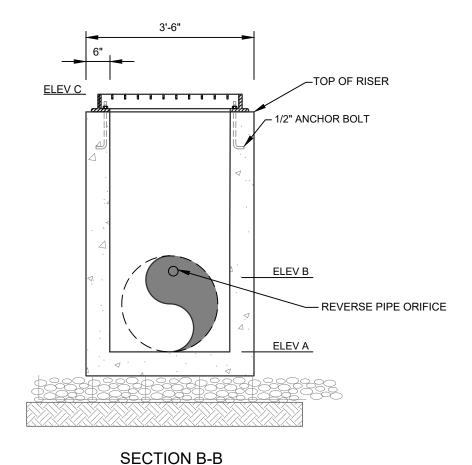
\* FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL. NOTE: ALL DIMENSIONS ARE NOMINAL

ELEVATED BYPASS MANIFOLD

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

8' (2.4 m) MIN WIDE

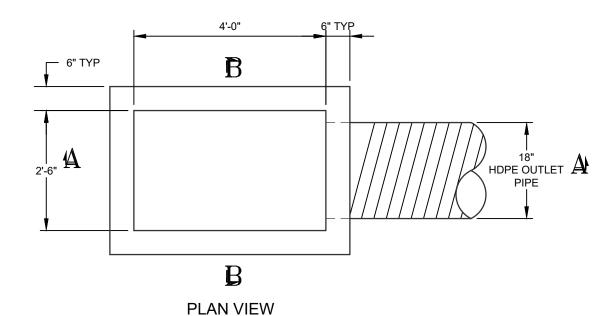




ELEV B (Ø) ELEV A (Ø) FLEV C FI EVATION LENGTH POND B1 FOREBAY 504.00 (15") N/A 507.00 507.50 POND B2 506.00 (12") 508.00 (1") 511.25 511.75

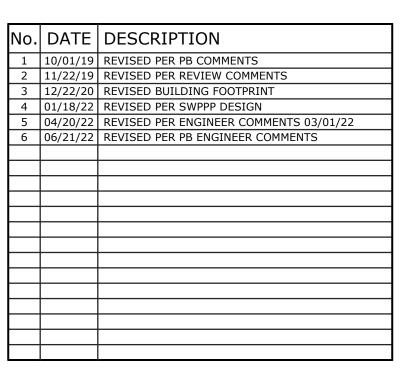
OPTIONAL INSPECTION PORT

SC-740 END CAP



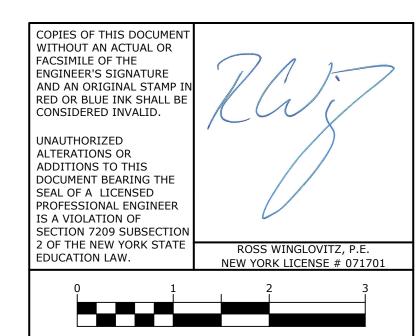
1. FOR LENGTH AND SLOPE OF OUTLET PIPES SEE PLAN. SCALE: NTS

NO SITE PREPARATION OR CONSTRUCTION, INCLUDING UTILITY CONNECTIONS. SHALL COMMENCE UNTIL A VALID HIGHWAY WORK PERMIT HAS BEEN SECURED FROM THE ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS UNDER SECTION 136 OF THE HIGHWAY LAW.

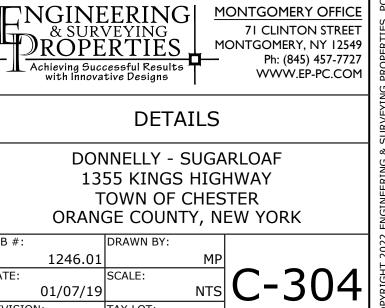


DRAWING STATUS		ISSUE DATE:		
DRAWING STATES	06/21/22			
THIS SHEET IS PART OF	S	HEE	T	
THE PLAN SET ISSUED FOR	NU	JMBI	ER	
CONCEPT APPROVAL	N/A	OF	N/A	
☑ PLANNING BOARD APPROVAL	11	OF	13	
OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A	
OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	5	
NYSDEC APPROVAL	N/A	OF	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				

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).



ORIGINAL SCALE IN INCHES



#### SUMP DEPTH TBD BY **INSPECTION & MAINTENANCE** SITE DESIGN ENGINEER OR MANHOLE (24" [600 mm] MIN RECOMMENDED) 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 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

B.1. 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

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

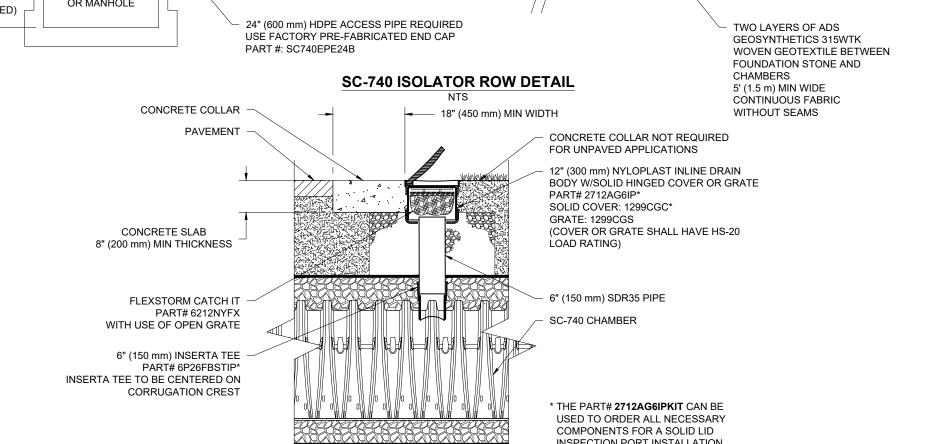
STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS. STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

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

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

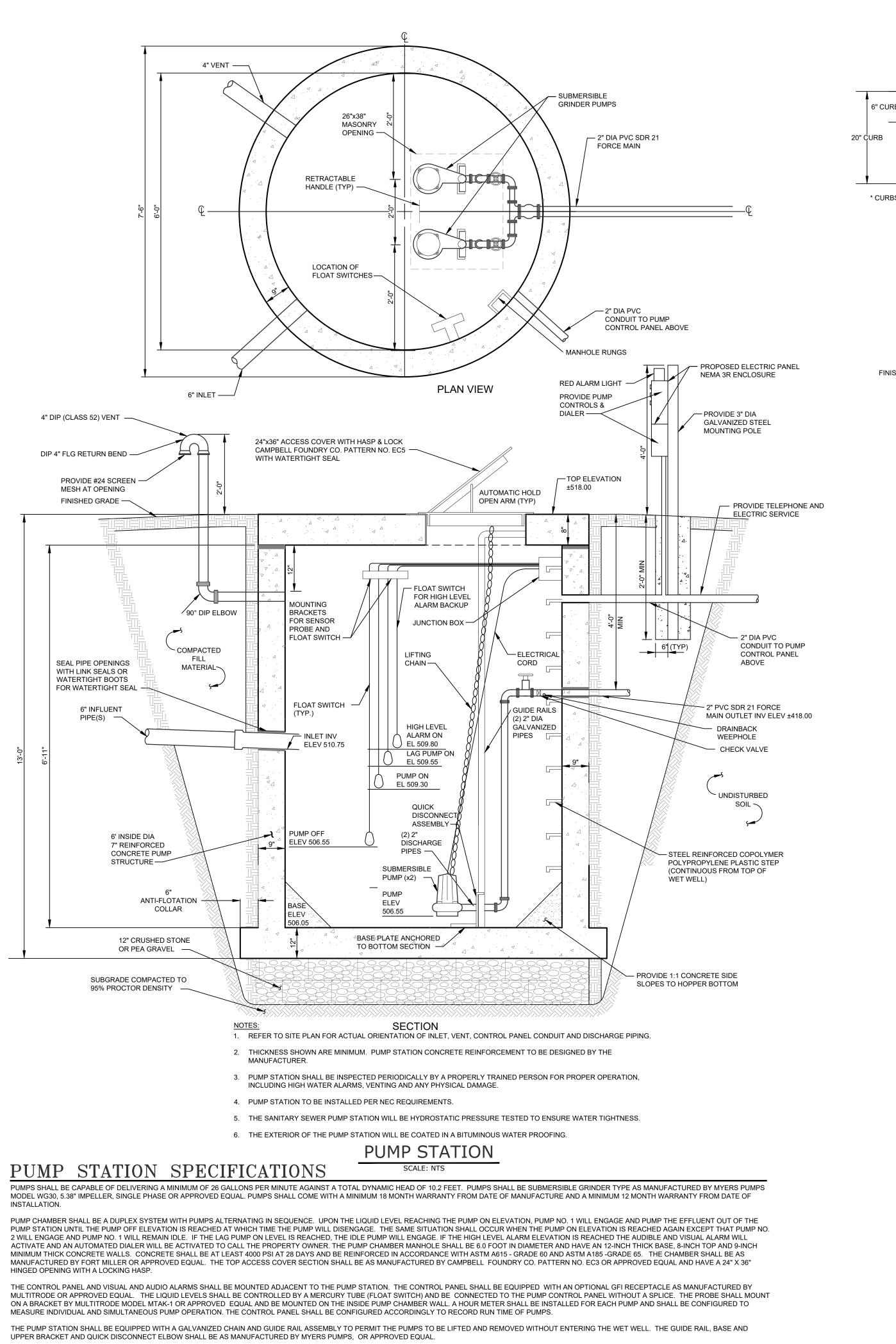


SC-740 CHAMBER

INSPECTION PORT INSTALLATION FOR STORMTECH INSTRUCTIONS.

DOWNLOAD THE **INSTALLATION APP** 

6 - 06/21/22 13-3-2



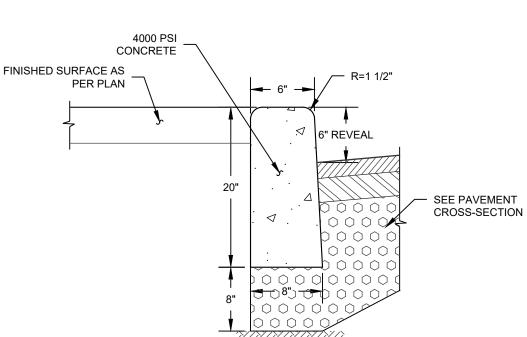
ALL INTERIOR PIPING AND FITTINGS WITHIN THE PUMP STATION SHALL BE FLANGED DUCTILE IRON PIPE. A CHECK VALVE AND GATE VALVE ASSEMBLY SHALL BE PROVIDED ON EACH DISCHARGE LINE WITHIN THE WET

WELL. IN ADDITION THE TWO DISCHARGE LINES SHALL BE JOINED INTO A SINGLE FORCE MAIN WITHIN THIS STRUCTURE. ALL CHECK VALVES AND GATE VALVES SHALL BE FLANGED AS MANUFACTURED BY CLOW, PART

NO. F-5335 AND F-5070 OR APPROVED EQUAL.

- BELGIUM BLOCK (TYP) CONCRETE (TYP) - GROUND SURFACE 6" CURB REVEAL TRANSITION FROM 6" - EXPANSION JOINT (TYP) \* CURBS WITH 7" REVEAL SHALL HAVE A TRANSITION LENGTH OF 84" MIN.

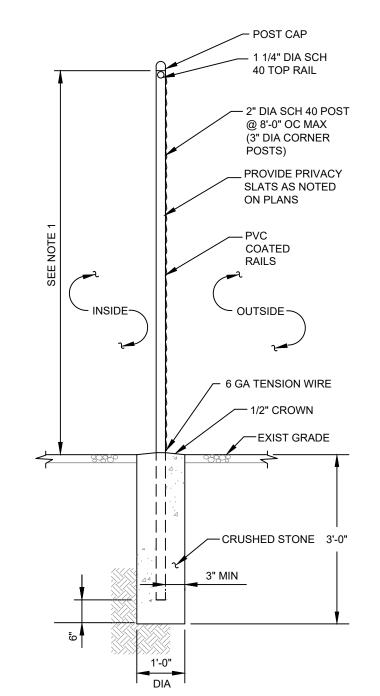
**CURB TRANSITION** 



# NOTES: 1. CURB SHALL BE CAST IN PLACE.

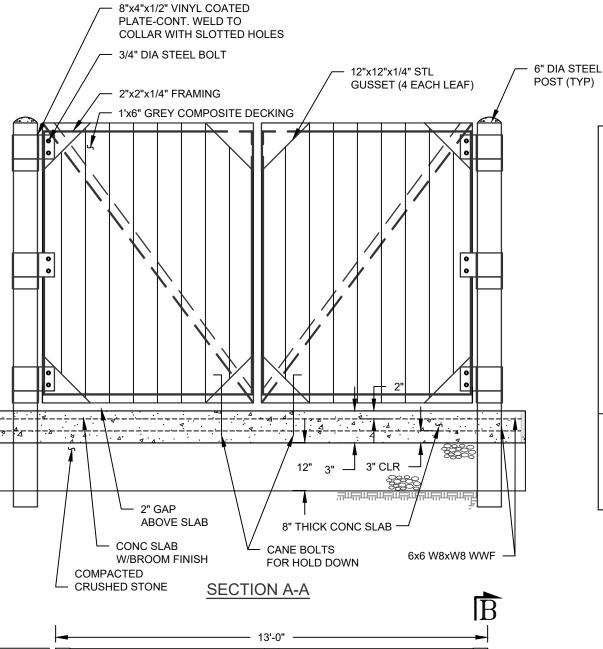
- 2. EXPANSION JOINTS OF 3/4" PREFORMED BITCOATED CELLULOSE OR OR SIMILIAR MATERIAL SHALL BE PLACED AT 10 (TEN) FOOT INTERVALS.
- 3. TEMPORARY FORM SUPPORT BRACING SHALL BE REMOVED DURING CONCRETE POUR.

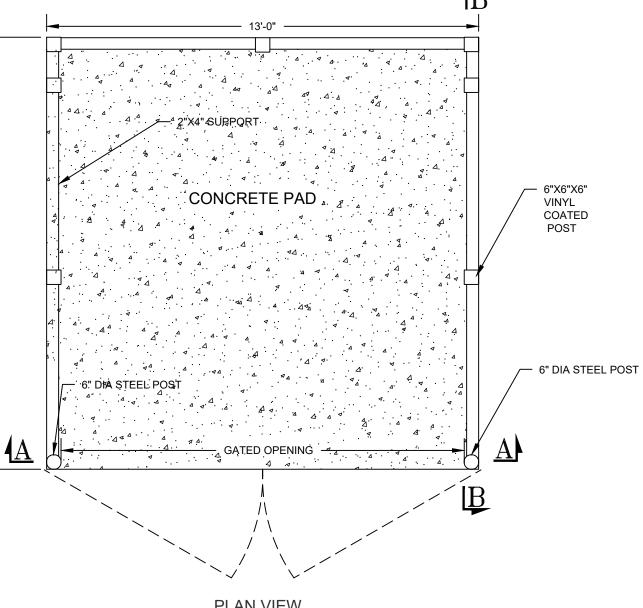
CONCRETE CURB

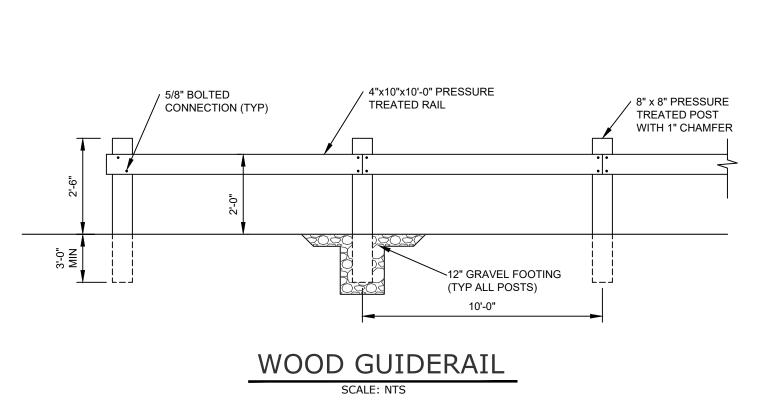


### 1. CHAIN LINK FENCE HEIGHT PER PLAN

- 3. TO BE INSTALLED AROUND BASKETBALL COURT AND SEWER

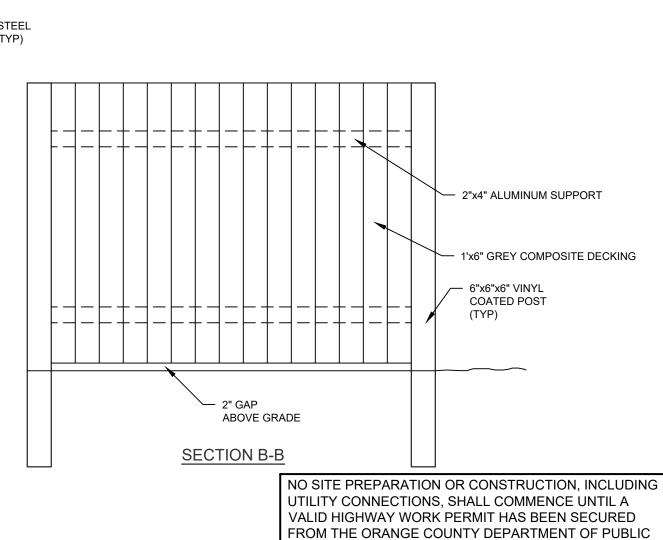






ALL CONCRETE SHALL BE 4000 PSI AT 28 DAYS.

VINYL DUMPSTER ENCLOSURE

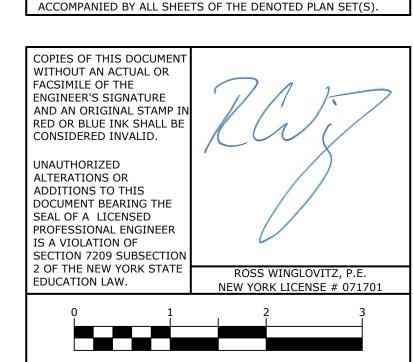


No.	DATE	DESCRIPTION
1	10/01/19	REVISED PER PB COMMENTS
2	11/22/19	REVISED PER REVIEW COMMENTS
3	12/22/20	REVISED BUILDING FOOTPRINT
4	01/18/22	REVISED PER SWPPP DESIGN
5	04/20/22	REVISED PER ENGINEER COMMENTS 03/01/22
6	06/21/22	REVISED PER PB ENGINEER COMMENTS

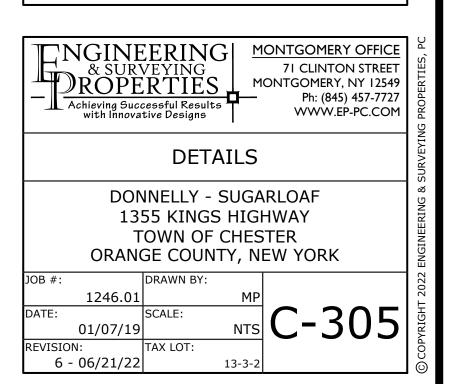
WORKS UNDER SECTION 136 OF THE HIGHWAY LAW.

DRAWING STATUS	ISSUE DATE:		ATE:
DRAWING STATUS	06/21/22		
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR	SHEET NUMBER		
CONCEPT APPROVAL	N/A	OF	N/A
☑ PLANNING BOARD APPROVAL	12	OF	13
OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A
OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	5
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			

APPROVAL OR ACTION NOTED ABOVE AND SHALL NOT BE USED FOR ANY OTHER PURPOSE. THIS SHEET SHALL BE CONSIDERED INVALID UNLESS

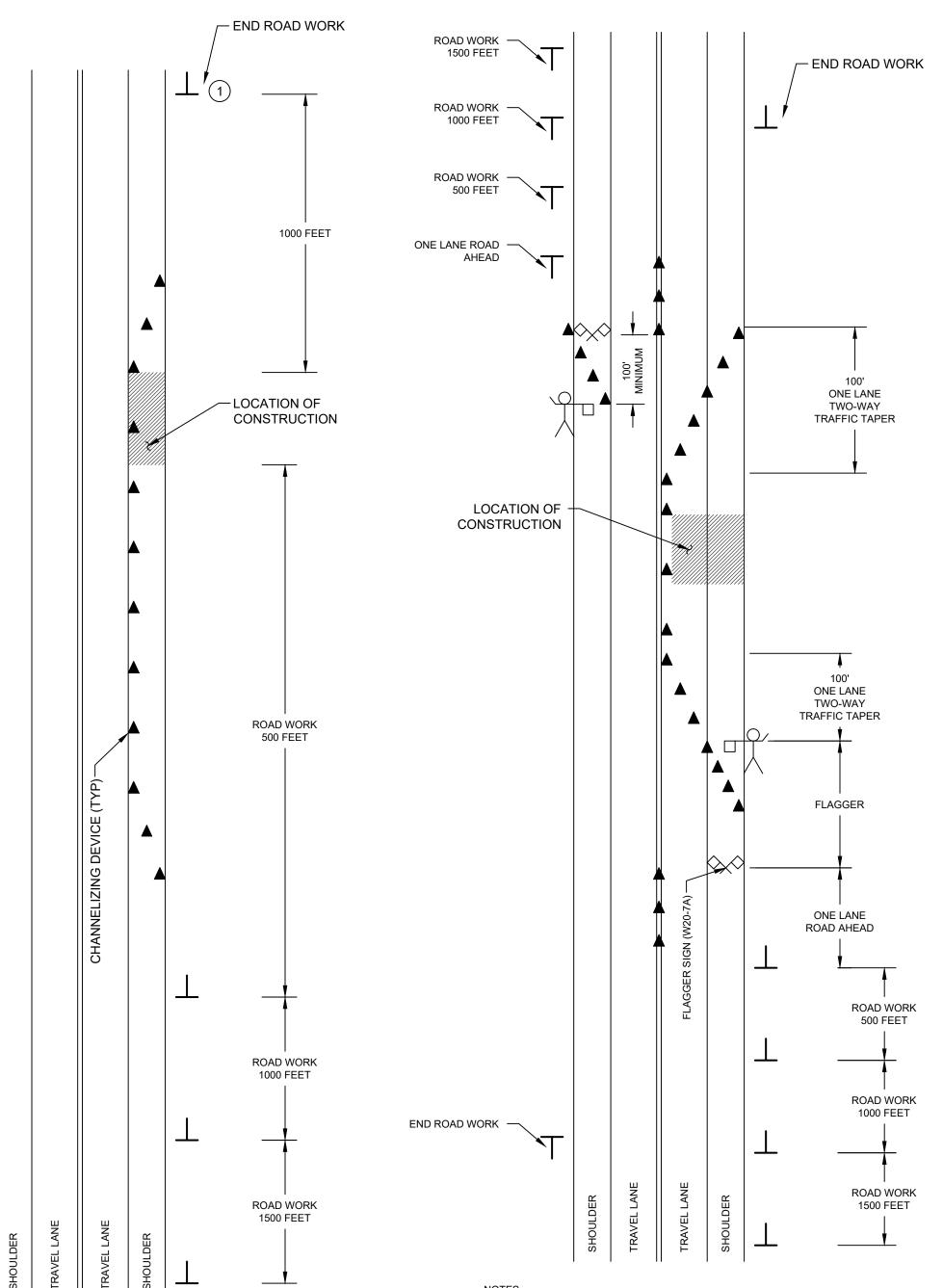


ORIGINAL SCALE IN INCHES



- 2. PRIVACY SLATS COLOR SHALL BE DARK GREEN.

CHAIN LINK FENCE DETAIL



- WHEN THE MINIMUM LANE WIDTH OF TEN (10) FEET CANNOT BE MAINTAINED DUE TO A SHOULDER CLOSURE, USE THE DETAIL FOR SHORT OR INTERMEDIATE TERM STATIONARY FLAGGING OPERATION.
- 2. NO WORK ACTIVITY OR STORAGE OF EQUIPMENT, VEHICLES, OR MATERIAL SHOULD OCCUR WITHIN A BUFFER SPACE.
- 3. IN THOSE SITUATIONS WHERE MULTIPLE WORK LOCATIONS EXIST WITHIN A LIMITED DISTANCE MAKE IT PRACTICAL TO PLACE STATIONARY SIGNS, THE DISTANCE BETWEEN THE ADVANCE WARNING SIGN AND WORK SHALL NOT EXCEED FIVE (5)
- 4. CHANNELIZING DEVICE SPACE (CENTER TO CENTER) SHALL NOT EXCEED FORTY (40) FEET IN THE ACTIVE WORK SPACE.
- TRANSVERSE DEVICES SHALL BE REQUIRED (AS PER 619 STANDARD SPECIFICATIONS) WHEN A PAVED SHOULDER HAVING A WIDTH OF EIGHT (8) FEET OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN 1,500'.

# SHOULDER CLOSURE SHORT OR INTERMEDIATE TERM

STATIONARY 2-LANE 2-WAY ROADWAY

- 1. WHEN PAVED SHOULDERS HAVING A WIDTH OF EIGHT (8) FEET OR MORE ARE CLOSED, CHANNELIZING DEVICES SHALL BE USED TO CLOSE THE SHOULDER IN ADVANCE TO DELINEATE THE BEGINNING OF THE WORK AREA AND DIRECT VEHICULAR TRAFFIC TO REMAIN IN THE TRAVEL WAY.
- 2. WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE ROADWAY WITHIN A WORK ZONE TRAFFIC CONTROL AREA, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES AND/OR FLAGGERS SHALL BE PLACED AS NEEDED. ADDITIONAL FLAGGERS SHALL BE LOCATED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK SPACE.
- 3. NO WORK ACTIVITY, EQUIPMENT, OR STORAGE OF VEHICLES, OR MATERIAL SHALL OCCUR WITHIN THE BUFFER SPACE AT ANY TIME.
- 4. CHANNELIZING DEVICE SPACING (CENTER TO CENTER) SHALL NOT EXCEED FORTY (40) FEET IN THE ACTIVE WORK SPACE.
- 5. TRANSVERSE DEVICES SHALL BE REQUIRED WHEN A PAVED SHOULDER HAVING A WIDTH OF EIGHT (8) FEET OR GREATER IS CLOSED FOR A DISTANCE GREATER THAN
- 6. THE END ROAD WORK SIGN SHALL BE PLACED A MAXIMUM OF 500' PAST THE END OF THE WORK SPACE.
- 7. WHERE DIRECTED BY THE ENGINEER, A BUFFER SPACE SHALL BE PROVIDED IN ORDER TO LOCATE THE ONE-LANE, TWO-WAY TRAFFIC TAPER PRIOR TO ANY HORIZONTAL OR VERTICAL CURVE, IN ORDER TO PROVIDE ADEQUATE SIGHT DISTANCE FOR THE FLAGGERS AND/OR A QUEUE OF STOPPED VEHICLES.
- 8. THE FLAG TREE SHALL BE LOCATED ON THE SHOULDER, AT APPROXIMATELY 1/2 THE DISTANCE BETWEEN THE FLAGGER SIGN AND THE FLAGGER.
- 9. FLAGGER SIGN AND ONE LANE ROAD AHEAD SIGN SHALL BE REMOVED, COVERED OR TURNED AWAY FROM ROAD USERS WHEN FLAGGING OPERATIONS ARE NOT
- 10. ALL FLAGGERS SHALL USE 24" MINIMUM OCTAGON SHAPED STOP/SLOW PADDLES
- 11. CENTERLINE CHANNELIZING DEVICES ARE OPTIONAL AND MY BE ELIMINATED WHERE SPACE CONSTRAINTS EXIST.

# FLAGGER OPERATION SHORT OR INTERMEDIATE TERM STATIONARY LAND CLOSURE ON 2-LANE 2-WAY ROADWAY

## OCDPW NOTES

- 1. ADD A NOTE THAT NO PLANTINGS (SHRUBS/TREES) OR LANDSCAPING FEATURES (GATES, FENCES, STONE PILLARS, STONE WALLS, SIGNS, ETC.) SHALL BE PLACED WITHIN THE COUNTY RIGHT OF WAY.
- **BACKFILL MATERIALS:** 1. ALL BACKFILL IS REQUIRED TO BE PLACED AND COMPACTED IN 12 INCH LIFTS MAXIMUM.
- 2. PROVIDE CROSS SECTION DETAILS FOR BACKFILL REQUIREMENTS WITHIN THE ASPHALT, WITHIN 8 FEET OF THE EDGE OF PAVEMENT, AND 8 FEET BEYOND FROM THE EDGE OF PAVEMENT.
- 3. DRY K CRETE SHALL BE USED AT ALL ROAD CROSSING (TOWN ROADS), COMMERCIAL ENTRANCES, AND ALL TRENCHES WITHIN ASPHALT OR AS DIRECTED BY ORANGE COUNTY INSPECTOR
- 4.ITEM NO. 4: ITEM 304.12 SUBBASE COURSE TYPE 2 IS REQUIRED TO BE USED AS BACKFILL FROM EDGE OF PAVEMENT OUT EIGHT FEET.
- 5. EXCAVATED MATERIAL IS ALLOWED TO BE USED AS BACKFILL MATERIAL BEYOND 8 FEET FROM THE EDGE OF PAVEMENT. NO BOULDERS/ROCKS OVER 6 INCHES ARE ALLOWED TO BE USED AS BACKFILL.
- 6. MATERIAL TICKETS ARE REQUIRED TO BE PROVIDED TO THE ORANGE COUNTY INSPECTOR ON A DAILY BASIS FOR ALL MATERIAL USED IN THE COUNTY RIGHT OF WAY.
- **COMPACTION:** 1. THE FOLLOWING EQUIPMENT IS REQUIRED TO BE ON SITE ON A DAILY BASIS AND FULLY OPERATIONAL.
- a. VIBRATORY TRENCH ROLLER; PRIMARY COMPACTION EQUIPMENT
- b. JUMPING JACK COMPACTOR; SECONDARY COMPACTION EQUIPMENT FOR USE IN TIGHT AREAS, WHERE THE VIBRATORY TRENCH ROLLER CANNOT BE USED
- c. MECHANICAL SWEEPER

e. ASPHALT ROLLER

- d. SIDE-DUMP LOADER OR SKID STEER (I.E. BOBCAT)
- IF ANY OF THE EQUIPMENT LISTED ABOVE IS NOT OPERATIONAL, NO EXCAVATING SHALL BE PERFORMED UNTIL ALL EQUIPMENT IS FUNCTIONING PROPERLY.

#### ASPHALT RESTORATION:

- 1. ALL PAVEMENT IS REQUIRED TO BE RESTORED ON A DAILY BASIS
- 2. RAGGED TRENCH EDGES MUST SAW CUT PRIOR TO AND PAVING (TEMPORARY OR PERMANENT)
- 3.IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN THE 5" OF BINDER COURSE FLUSH WITH THE EXISTING PAVEMENT SURFACE THROUGHOUT THE DURATION OF THE PROJECT. FINAL ASPHALT RESTORATION IS TO BE COMPLETED AT THE COMPLETION OF THE PROJECT.
- 4. ALL TEMPORARY ASPHALT IS REQUIRED TO BE FIVE (5) INCHES THICK AND PLACED IN TWO (2) LIFTS OF 2.5 INCHES. 5. ALL EDGES OF EXISTING ASPHALT ARE REQUIRED TO BE SWEPT AND TACK COATED PRIOR TO PAVING.
- 6. ALL ASPHALT IS REQUIRED TO BE SAW CUT PARALLEL OR PERPENDICULAR TO THE TRENCH OR TO THE EXISTING ASPHALT, NO RAGGED EDGES ARE ACCEPTABLE.
- 7. ALL SAW CUTTING IS REQUIRED TO BE PERFORMED PRIOR TO PLACING ASPHALT BINDER. MILLING OUT THE JAGGED EDGES ON THE TOP COURSE OR FINAL ASPHALT WILL NOT BE ACCEPTED BY ORANGE COUNTY.
- 8. ALL ASPHALT JOINTS ARE REQUIRED TO BE CRACK SEALED UPON COMPLETING FINAL PAVING

### **GENERAL NOTS:**

- 1. CONTRACTOR SHALL NOT BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF SIGNS, GUIDE RAILS, GUIDE POSTS, CULVERT PIPES, MAILBOXES, HEADWALLS, ETC. WHICH MUST BE REMOVED FOR CONSTRUCTION. CONTRACTOR SHALL REINSTALL ANY REMOVED ITEMS ON A DAILY BASIS. ANY ITEMS DAMAGED BY REMOVAL OR REINSTALLATION SHALL BE REPLACED AND REINSTALLED BY THE CONTRACTOR WITH A NEW ITEM.
- 2. NO UTILITY WORK (WATER, SEWER STORM DRAINAGE) IS ALLOWED TO BE PERFORMED BETWEEN NOVEMBER 15 AND MARCH 15 WITHIN THE COUNTY RIGHT OF WAY.
- 3. NO TRACK EQUIPMENT IS ALLOWED ON THE COUNTY ROAD WITHOUT PLACING MATS, PLYWOOD, TIRES, ETC. TO PROTECT THE ASPHALT ROAD.
- 4. NO OPEN TRENCHES ARE ALLOWED TO REMAIN OPEN OVER NIGHT. ALL OPEN TRENCHES ARE REQUIRED TO BE BACKFILLED ON A DAILY BASIS.
- 5. NO ROAD PLATES ARE ALLOWED TO BE USED OVERNIGHT. ROAD PLATES ARE ONLY ALLOWED TO BE USED DURING DAILY OPERATIONS TO MAINTAIN TRAFFIC ON THE ROADWAY AND AT RESIDENTIAL/COMMERCIAL DRIVEWAYS. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER COORDINATION WITH HOMEOWNERS AND BUSINESSES TO ENSURE THAT THEY CAN ENTER AND EXIT THEIR DRIVEWAYS DURING THE COURSE OF DAY TO DAY OPERATIONS.

### MAINTENANCE AND PROTECTION OF TRAFFIC:

- 1. ALL MAINTENANCE AND PROTECTION OF TRAFFIC CONSTRUCTION SIGNAGE SHALL BE INSTALLED AND IN PLACE PRIOR ANY WORK STARTING. ALL CONSTRUCTION SIGNAGE IS REQUIRED TO MEET THE REQUIREMENTS AS PER THE "NATIONAL MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FO STREETS AND HIGHWAYS" AND NYS SUPPLEMENT LATEST EDITION AND REVISIONS. THE CONSTRUCTION SIGNAGE SHALL BE INSTALLED ON BREAKAWAY POSTS OR ON WIND-MASTERS AND COVERED AND UNCOVERED ON A DAILY BASIS. THE CONTRACTOR MUST HAVE ALL NECESSARY CONSTRUCTION SIGNS TO PERFORM THE WORK SAFELY; I.E. ADDITIONAL SIGNAGE: ONE LANE ROAD AHEAD, FLAGGER SYMBOL, IF A LANE HAS TO BE CLOSED TO PERFORM WORK.
- 2. ALL CONSTRUCTION SIGNAGE IS REQUIRED TO BE 730-05.02 ASTM TYPE III (CLASS B) AS PER NYS STANDARD SPECIFICATIONS: CONSTRUCTION AND MATERIALS. HI-INTENSITY REFLECTIVE SHEETING OFTEN REFERRED TO AS HIGH INTENSITY. IT IS RECOMMENDED FOR HIGHWAY SIGNS, CONSTRUCTION SIGNS, DELINEATORS, AND OTHER
- 3. ORANGE COUNTY RESERVES THE RIGHT TO PRECLUDE ALL WORK AND LANE CLOSURES DURING ANY INCLEMENT WEATHER OR OTHER UNFORESEEN CIRCUMSTANCES (I.E. WET, ICY CONDITIONS, REDUCED VISIBILITY, TRAFFIC ACCIDENTS ON STATE, COUNTY, TOWN, OR VILLAGE ROAD, OR OTHER EMERGENCIES).
- 4. NO LANES CLOSURES WILL BE PERMITTED FROM 12 NOON PRIOR TO A HOLIDAY AND UNTIL 10 AM THE DAY AFTER A
- 5. FLAGGERS SHALL NOT CONTROL MORE THAN ONE APPROACH AT ANYTIME THROUGHOUT THE DURATION OF THE WORK ZONE. ADDITIONAL FLAGGERS ARE REQUIRED TO CONTROL ALL APPROACHES IN A WORK ZONE.
- 6. EIGHTEEN (18) INCH STOP AND SLOW PADDLES ARE REQUIRED TO DIRECT TRAFFIC.
- 7. TWO WAY RADIOS ARE REQUIRED FOR FLAGGERS TO COMMUNICATE WITH EACH OTHER

### OSHA REQUIREMENTS: MUST BE ADHERED TO AT ALL TIMES

1. OSHA REQUIREMENTS (29 CFR 1926) MUST BE ADHERED TO AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SHORING ANY TRENCH OR EXCAVATION THAT IS GREATER THAN FIVE (5) FEET OR WHICH, IN THE OPINION OF THE OCDPW INSPECTOR IN THE FIELD, POSES A DANGER TO THE CONTRACTOR'S PERSONNEL ON THE JOB. THE CONTRACTOR HAS THE OPTION OF USING A PREFABRICATED SHORING SYSTEM, INSTALLING A TIMBER CONSTRUCTED SYSTEM AS PER OSHA SPECIFICATIONS, OR A TIMBER SYSTEM DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER. NO OTHER SHORING SYSTEM WILL BE APPROVED FOR USE.

- 1. THE NORMAL WORKING HOURS FOR THIS PROJECT IS 7:00 AM TO 3:30 P.M. ALL TRAFFIC LANES MOIST BE BACK IN
- SERVICE BY 4:30 P.M. OCDPW MUST APPROVE ANY CHANGES
- 2. NO HOLIDAY WORK AS PER ORANGE COUNT'S APPROVED HOLIDAY SCHEDULE.

## SEQUENCE OF CONSTRUCTION ACTIVTY

- 1. CONSTRUCTION STAGING: STAKE OUT LIMIT OF DISTURBANCE. INSTALL SILT FENCE DOWN HILL OF PROPOSED CONSTRUCTION. INSTALL STABILIZED CONSTRUCTION ENTRANCE AND STABILIZE CONSTRUCTION ROAD(S)
- 2. CLEARING AND GRUBBING: REMOVE VEGETATION FROM AREA OF CONSTRUCTION. STRIP TOPSOIL AND STOCKPILE IN AREAS SHOWN ON THE PLAN. INSTALL SEDIMENT BARRIERS AROUND AND ESTABLISH TEMPORARY VEGETATION ON TOPSOIL STOCKPILES.
- 3. ROUGH GRADING: CUT AND FILL SITE TO APPROXIMATE ELEVATIONS SHOWN ON THE PLAN. ESTABLISH PERMANENT STABILIZATION IN AREAS THAT ARE COMPLETE. ESTABLISH TEMPORARY STABILIZATION ON AREAS THAT WILL BE GRADED AGAIN MORE THAN 14 DAYS FROM LAST DISTURBANCE.
- 4. CONSTRUCTION OF DRIVEWAYS. BUILDING EXCAVATION AND CONSTRUCTION. ENSURE ALL EROSION CONTROL MEASURES ARE IN WORKING ORDER.
- 5. FINAL GRADING AND LANDSCAPING: COMPLETE FINE GRADING OF SITE. SPREAD TOPSOIL AND PREPARE FOR PERMANENT SEEDING AND PLANTING. ESTABLISH PERMANENT VEGETATION IN ALL REMAINING UN-STABILIZED AREAS. INSTALL ALL SITE LANDSCAPING AND PLANTINGS.
- 6. POST CONSTRUCTION: UPON STABILIZATION OF THE SITE AND ESTABLISHMENT OF ALL VEGETATION COVER. REMOVE ALL REMAINING TEMPORARY EROSION CONTROL MEASURES SUCH AS SILT FENCE. REMOVE ALL SILT AND DEBRIS FROM THE SITE INCLUDING DRIVEWAYS, AND STORM DRAINS.

## GRADING, DRAINAGE AND EROSION CONTROL NOTES

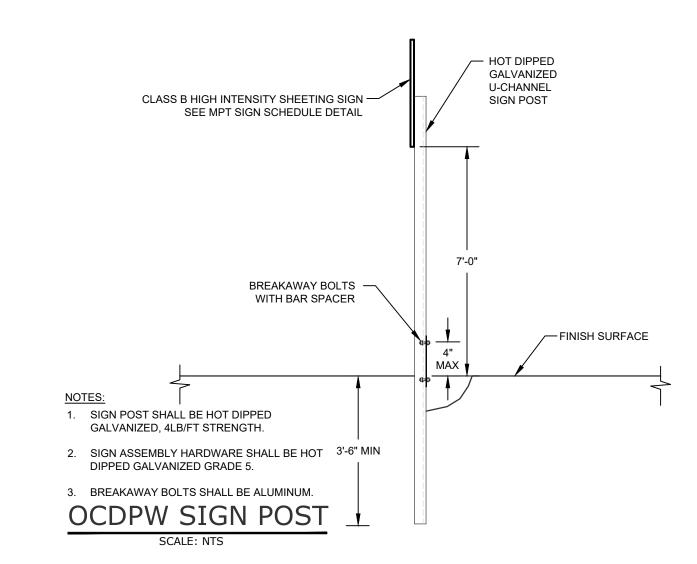
- 1. NO SITE PREPARATION OR CONSTRUCTION, INCLUDING UTILITY CONNECTIONS, SHALL COMMENCE UNTIL A VALID HIGHWAY WORK PERMIT HAS BEEN SECURED FROM THE ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS UNDER SECTION 136 OF HIGHWAY LAW.
- 2. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN UNTIL THEY ARE
- 3. ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED SEDIMENT CONTROL PLAN AND THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS."

7. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND

- 4. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.
- 5. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.
- 6. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF FOUR INCHES PRIOR TO PLACEMENT OF TOPSOIL
- 8. ALL FILL TO BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.

CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.

- 9. EXCEPT FOR APPROVED LANDFILLS, FILL MATERIAL SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- 10. FROZEN MATERIALS OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED IN FILLS.
- 11. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- 12. ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.
- 13. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- 14. ALL GRADED AREA SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.
- 15. STOCKPILES, BORROW AREAS AND SPOIL AREAS SHALL BE SHOWN ON THE PLANS AND SHALL BE SUBJECT TO THE PROVISIONS OF THIS STANDARD AND SPECIFICATION.
- 16. WETLAND DISTURBANCE TO BE LIMITED TO HATCHED AREA. TOTAL DISTURBANCE = 0 ACRES



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SIGN No.	TEXT	M.U.T.C.D. No.	SIZE OF SIGN	TYPE OF MOUNT	DESCRIPTION
1	END ROAD WORK	G20-2	36" x 18"	GR MTD	ORANGE BACKGROUND BLACK LEGEND
2	STATE LAW LICENSE SUSPENDED AFTER TWO WORK ZONE SPEEDING TICKETS	NYR9-11	24" x 42"	GR MTD	WHITE BACKGROUND BLACK LEGEND
3	ROAD WORK AHEAD	W20-1	36" x 36"	GR MTD	ORANGE BACKGROUND BLACK LEGEND
4	ONE LANE ROAD AHEAD	W20-4	36" x 36"	GR MTD	ORANGE BACKGROUND BLACK LEGEND
5		W20-7a	36" x 36"	GR MTD	ORANGE BACKGROUND BLACK LEGEND
6	SHOULDER	W21-5	36" x 36"	GR MTD	ORANGE BACKGROUND BLACK LEGEND
7	STOP	R1-1C	36" x 36"	GR MTD	RED BACKGROUND WHITE LEGEND

MPT SIGN SCHEDULE

NO SITE PREPARATION OR CONSTRUCTION, INCLUDING UTILITY CONNECTIONS, SHALL COMMENCE UNTIL A VALID HIGHWAY WORK PERMIT HAS BEEN SECURED FROM THE ORANGE COUNTY DEPARTMENT OF PUBLIC WORKS UNDER SECTION 136 OF THE HIGHWAY LAW.

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
5	04/20/22	REVISED PER ENGINEER COMMENTS 03/01/22
6	06/21/22	REVISED PER PB ENGINEER COMMENTS

DRAWING STATUS	ISSUE DATE: 06/21/22		
DIAWING STATES			
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR	SHEET NUMBER		
☐ CONCEPT APPROVAL	N/A	OF	N/A
☑ PLANNING BOARD APPROVAL	13	OF	13
OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A
OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	5
☐ 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 SPECIFICAL	LY FOR T	HE	

APPROVAL OR ACTION NOTED ABOVE AND SHALL NOT BE USED

THIS SHEET SHALL BE CONSIDERED INVALID UNLESS. ACCOMPANIED BY ALL SHEETS OF THE DENOTED PLAN SET(S).

FOR ANY OTHER PURPOSE

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