

Rev	Note	Created By	Appr. By	Appr. Date
A	Initial release	FG	PW	2020-03-20

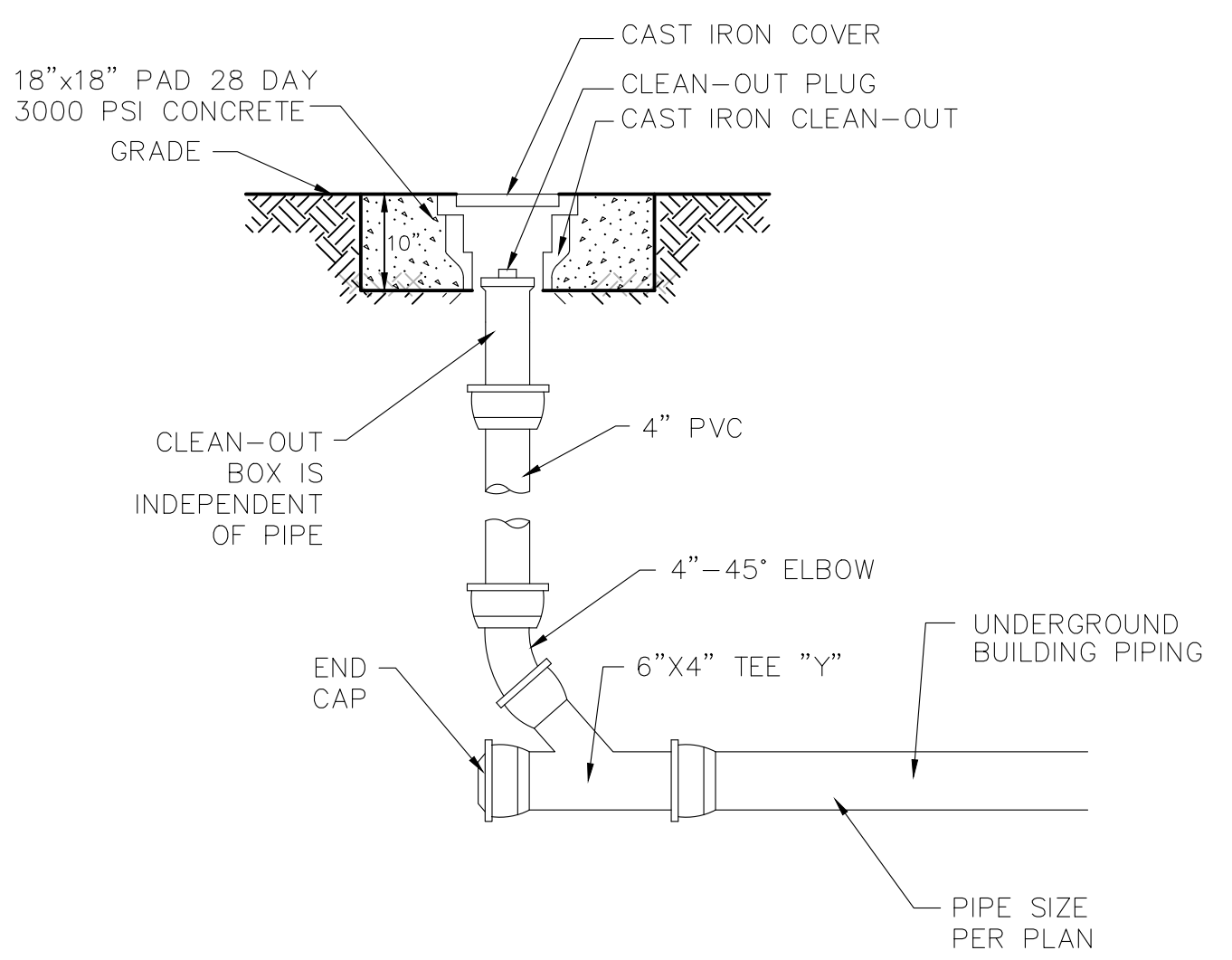
Designed By	Approved By	Created Date	Units	General Tolerance	Scale
FG	PW	2020-03-20	[inch]	ISO 13920A	1:10

Material	Box Volume (ft ³)	Description
AISI 316L / EN1.4404	1.8	WaStop NPS 12"

Article Number	Drawing Number	Rev	Sheet
WS290-S	WS290-s-us	A	1 (1)

BACKFLOW PREVENTOR DETAIL

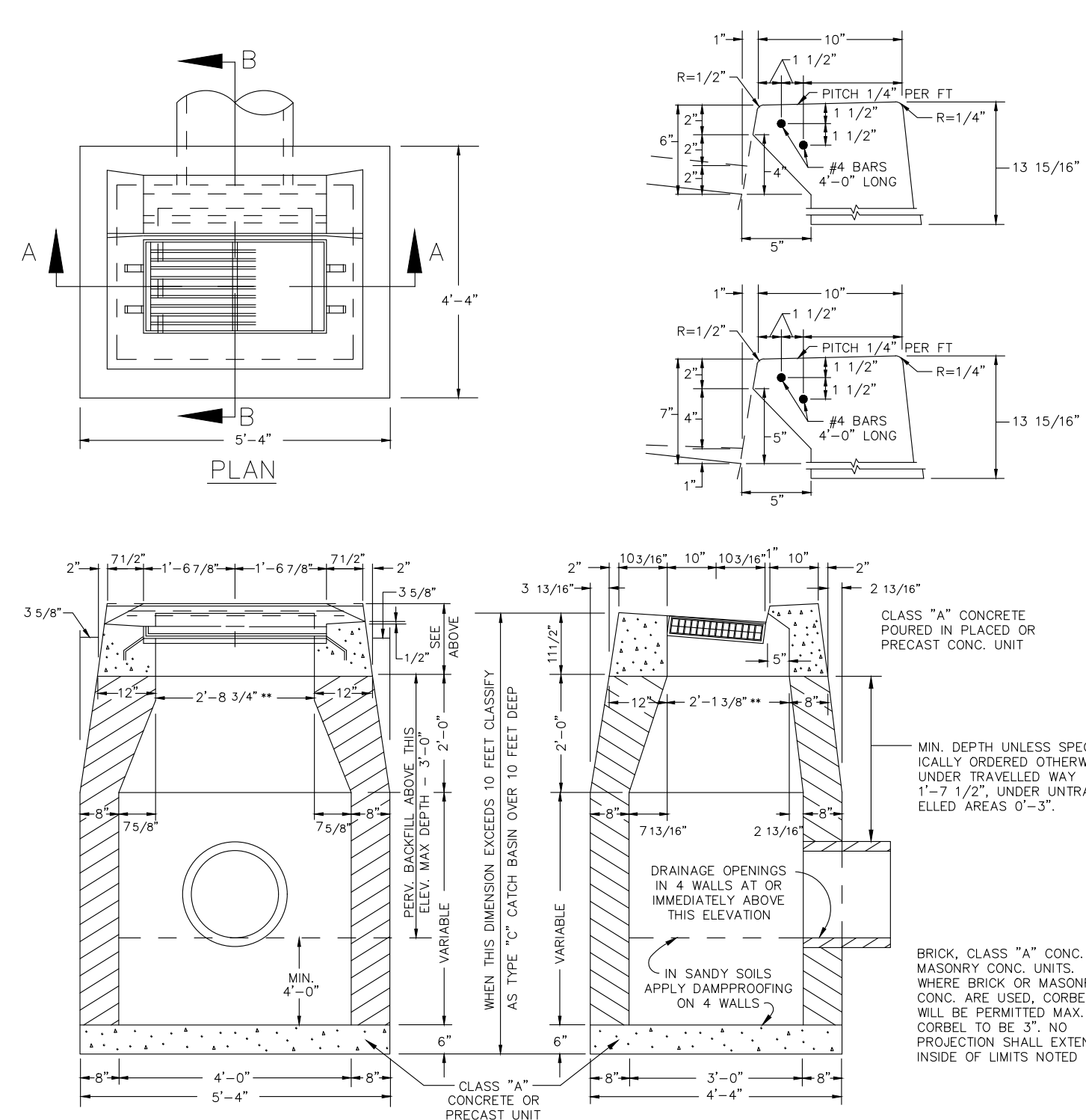
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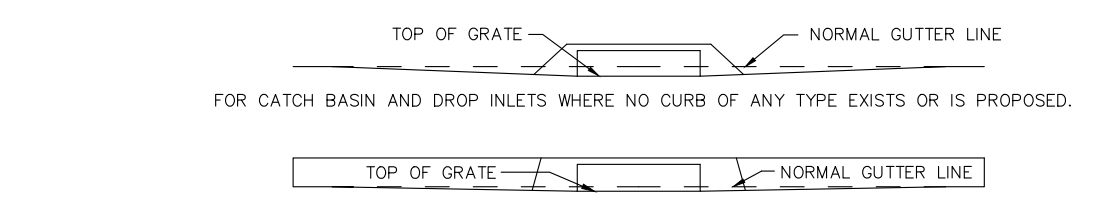
STORM CLEANOUT DETAIL

N.T.S.

DETAIL OF CURB INLET PLAIN CURB TYPE

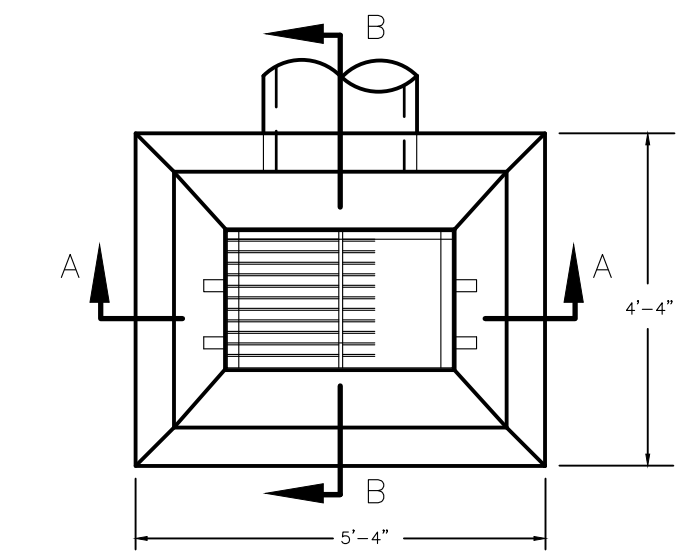


SECTION A-A SECTION B-B

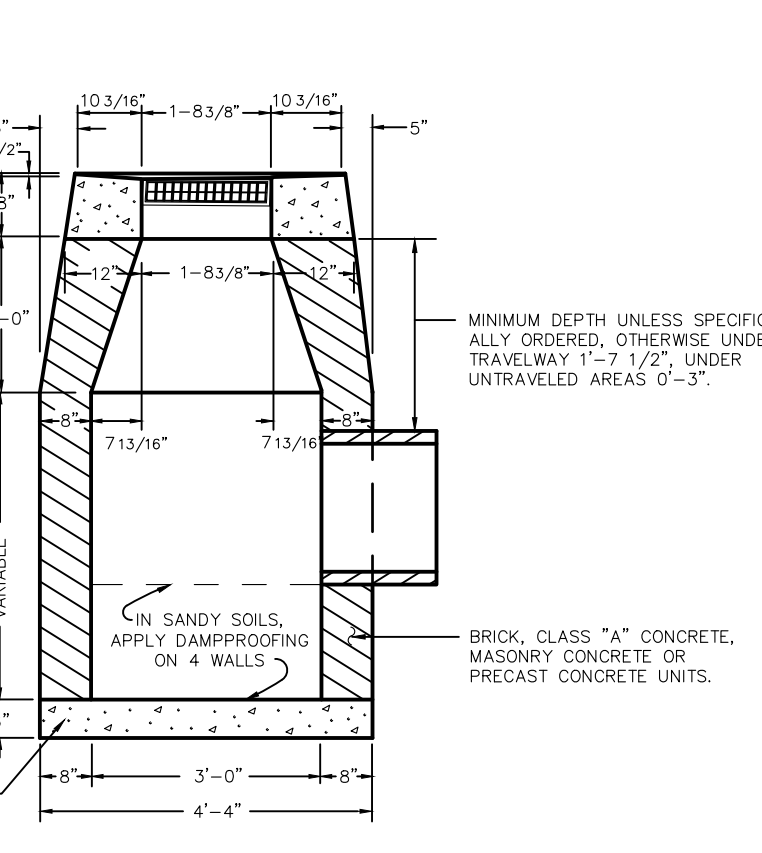
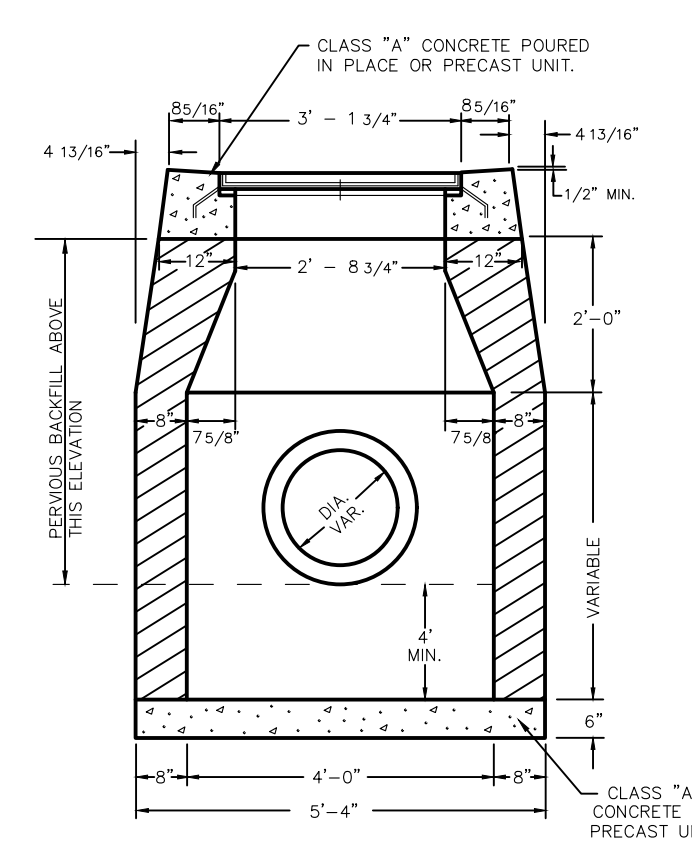


TYPE "C" CATCH BASIN WITH HOOD

N.T.S. ZDD-027



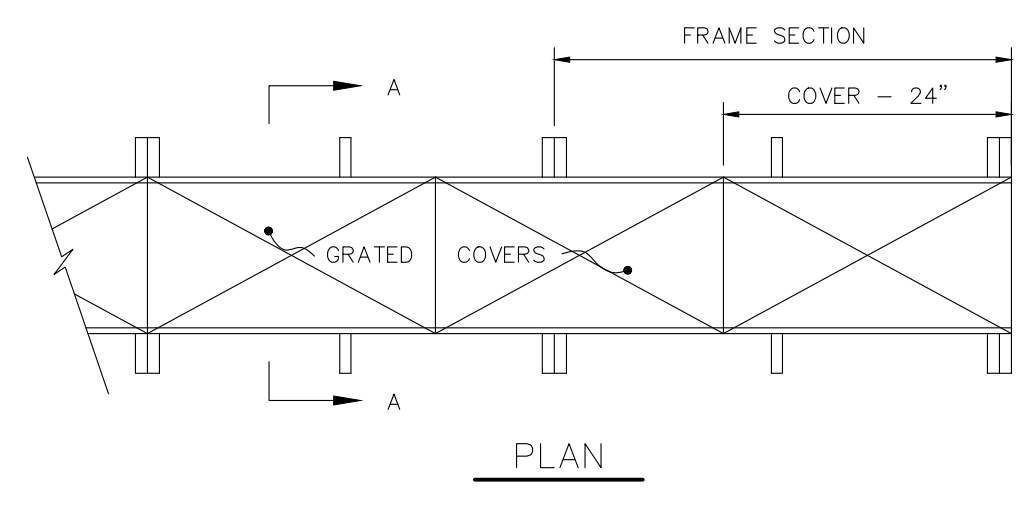
NOTE: DRAINAGE OPENINGS IN 4 WALLS AT OR IMMEDIATELY ABOVE THE BOTTOM OF THE PERVIOUS BACKFILL.



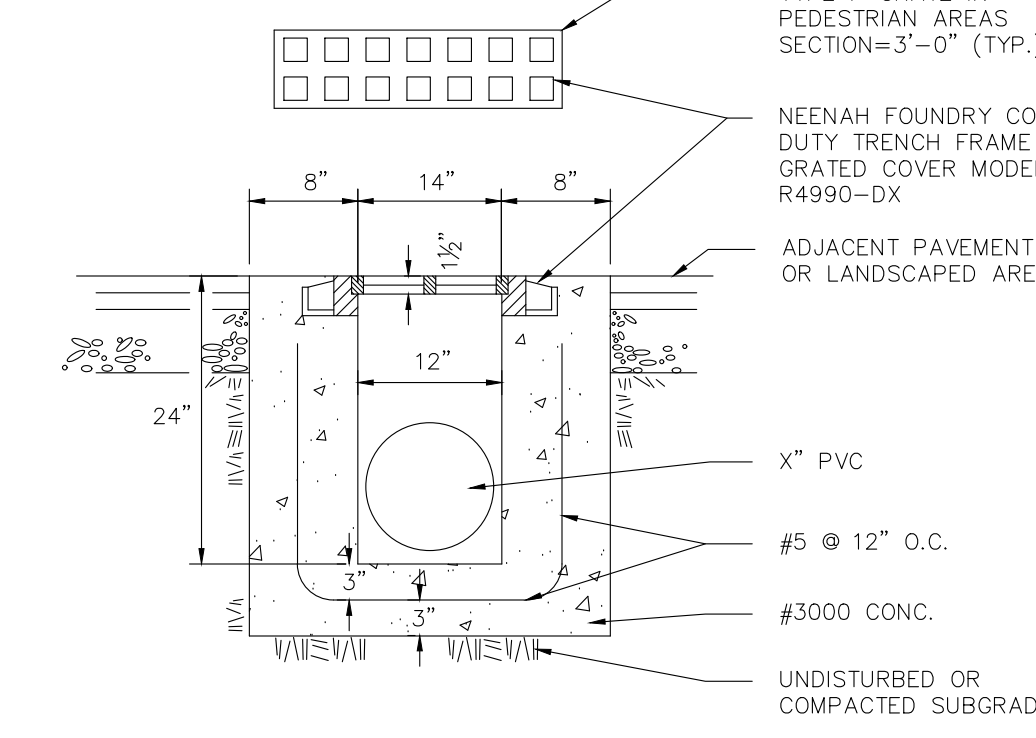
SECTION A-A SECTION B-B

TYPE "C-L" CATCH BASIN

N.T.S. ZDD-028



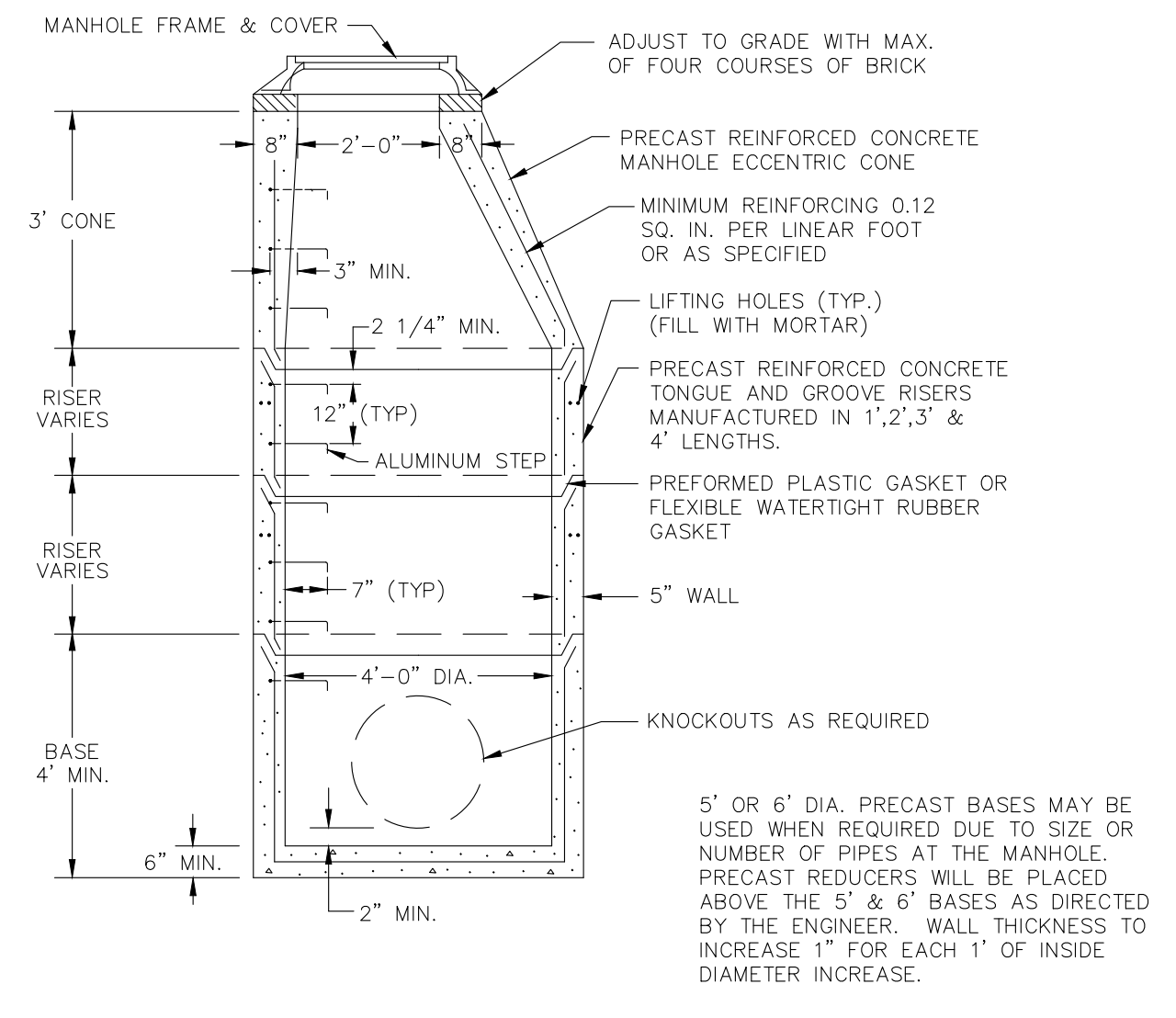
PLAN



SECTION A-A

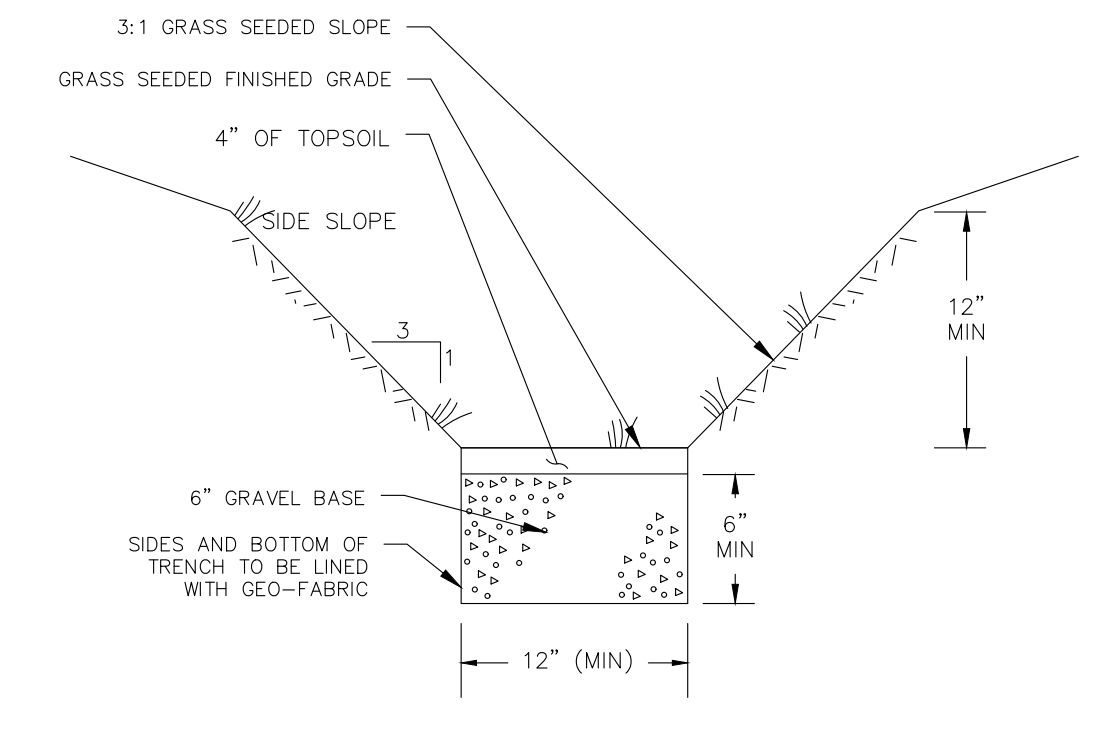
TRENCH DRAIN

N.T.S. BLDD-007



PRECAST STORM MANHOLE DETAIL

N.T.S. ZDD-049



GRASS SWALE DETAIL

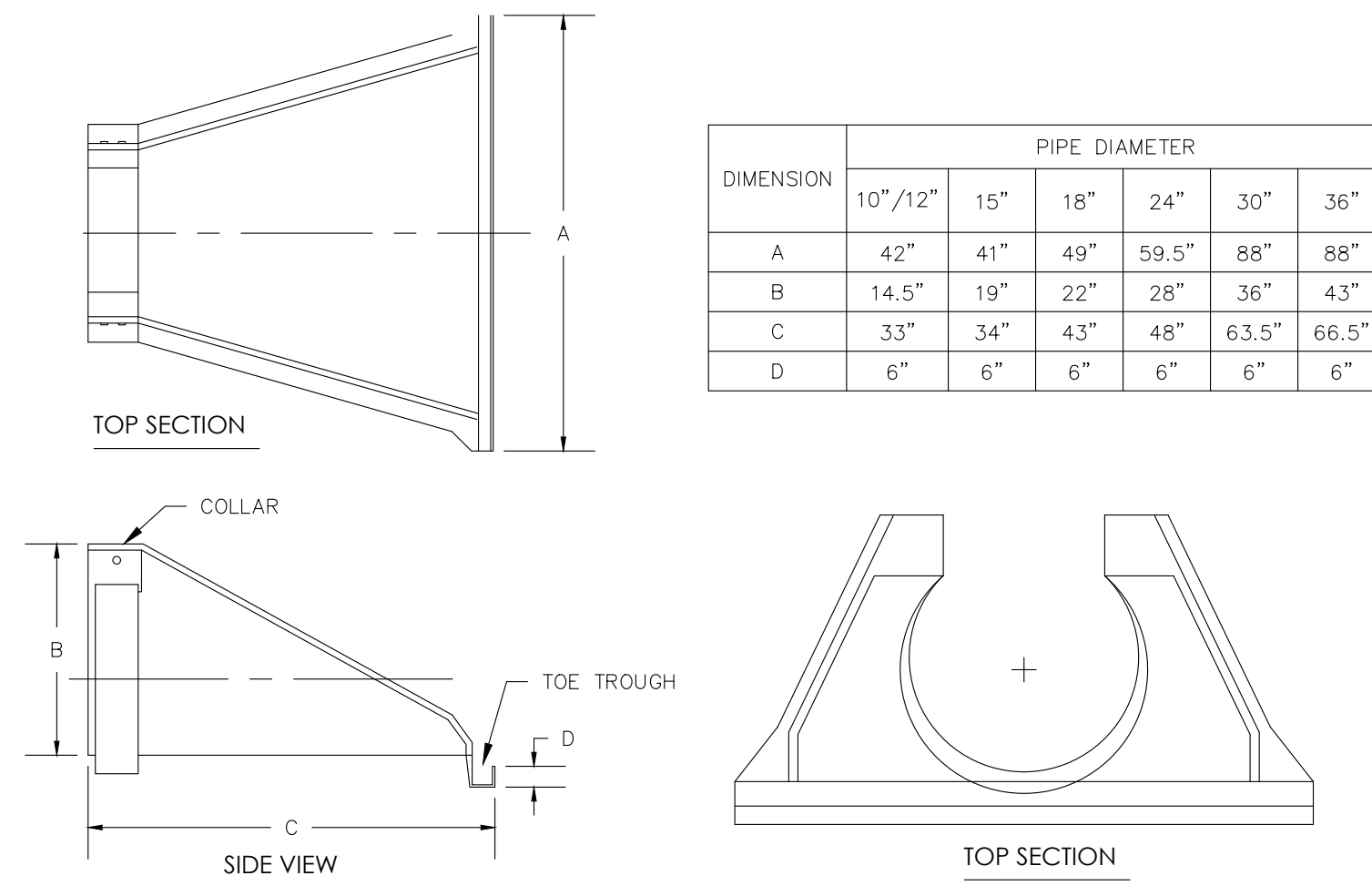
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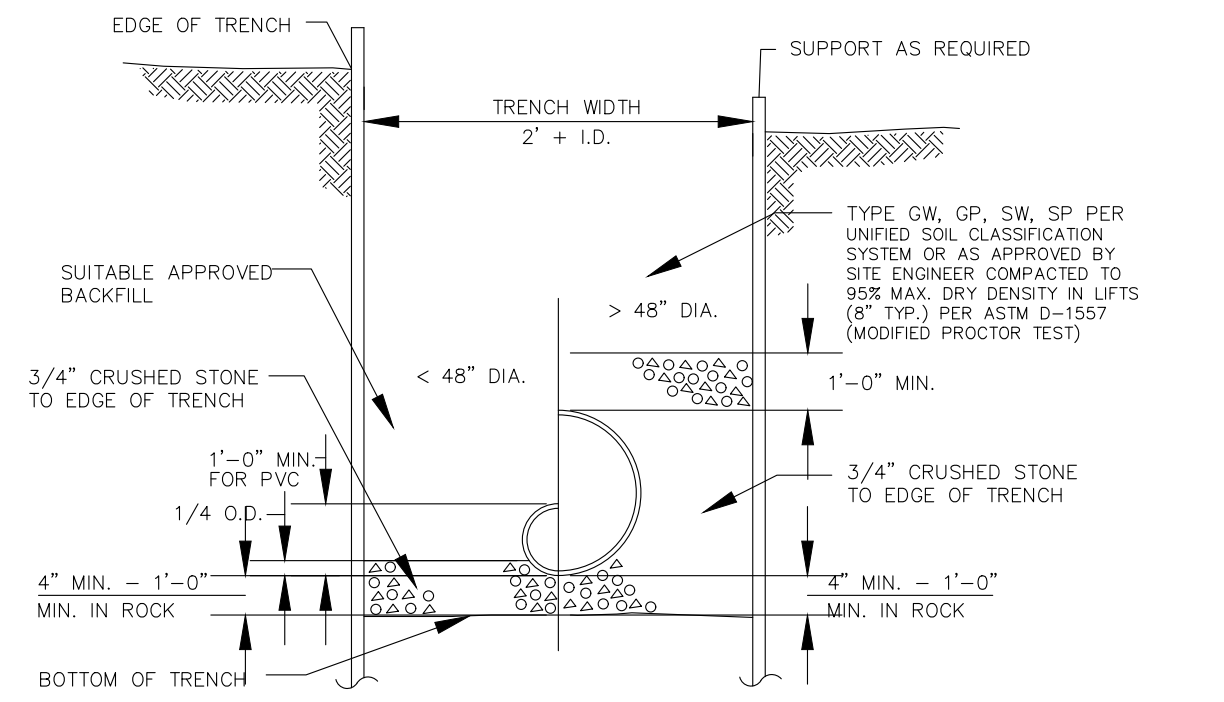
REVISIONS	No.	Date	Desc.

Designed	J.P.D.
Drawn	T.L.B.
Reviewed	R.M.R.
Scale	N.T.S.
Project No.	2302349
Date	06/17/2024
CAD File:	DN2302349-10



HDPE FLARED END DETAIL

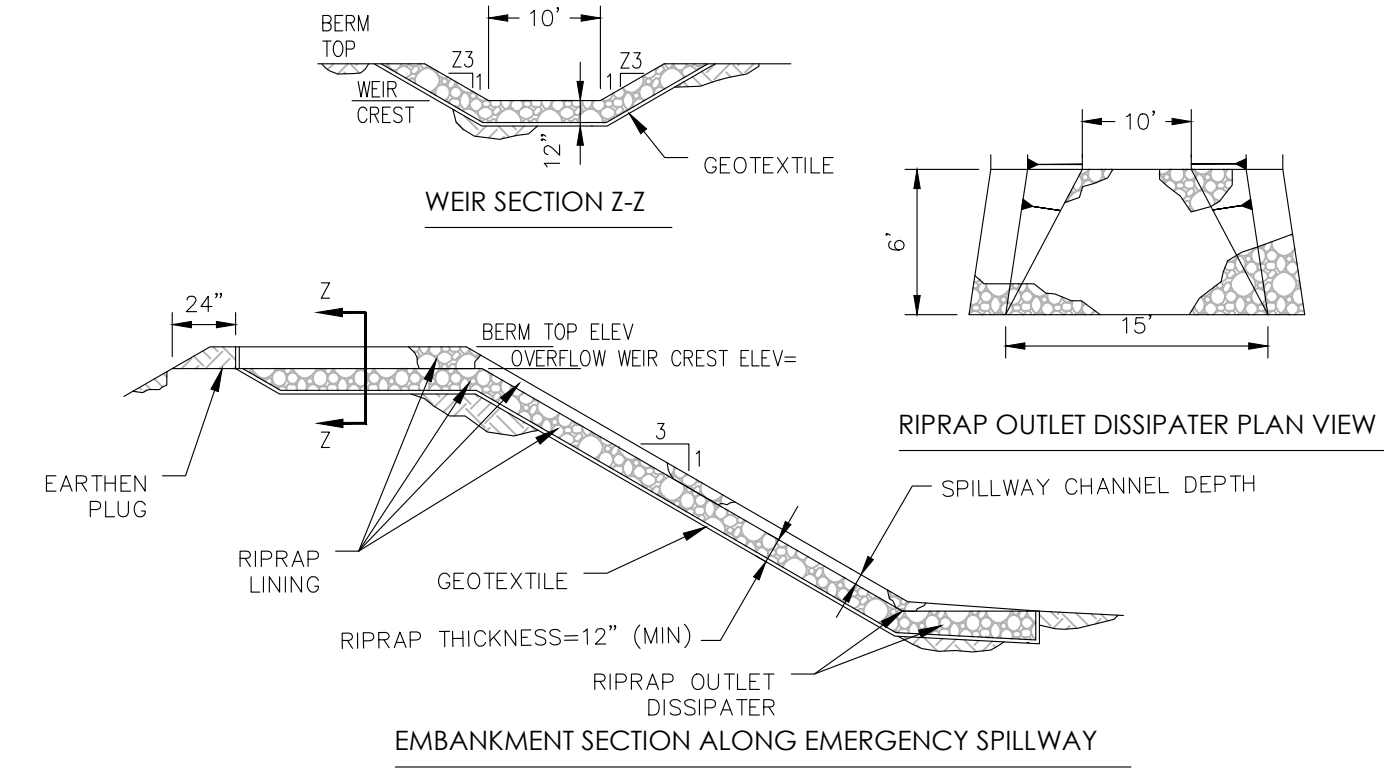
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TYPICAL STORM SEWER TRENCH SECTION

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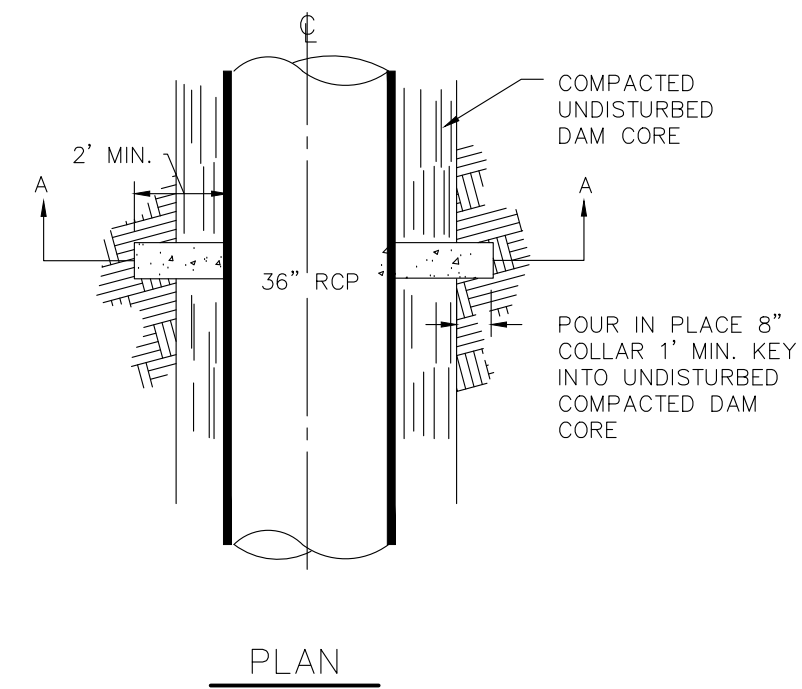
BLDD-004



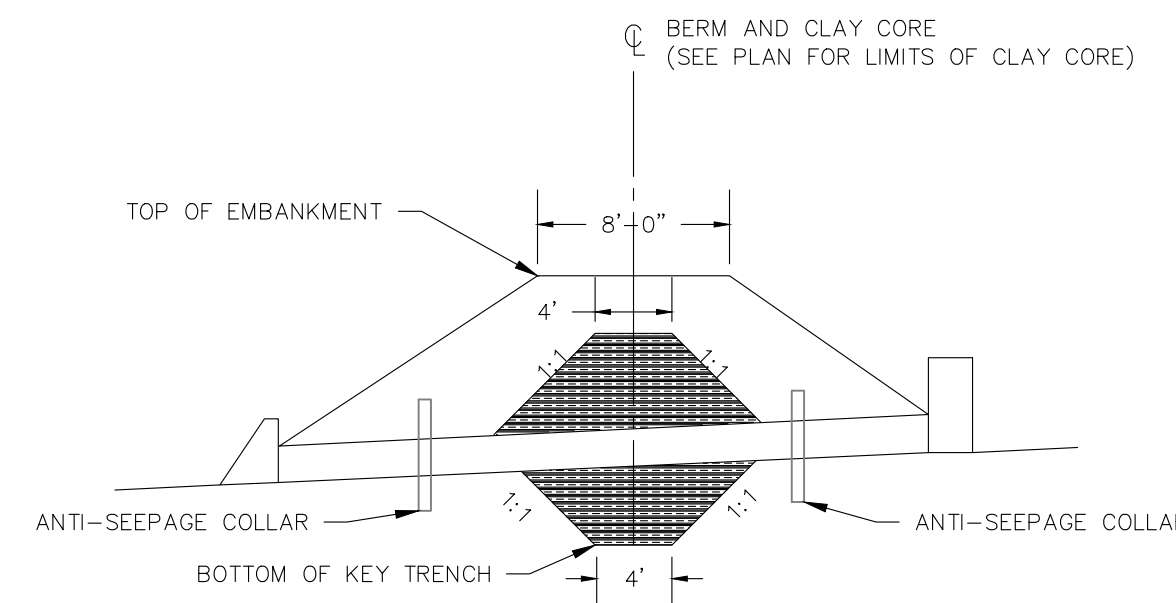
STORMWATER MANAGEMENT BASIN EMERGENCY SPILLWAY WITH RIPRAP LINING DETAIL

N.T.S.

PADEP-7-12



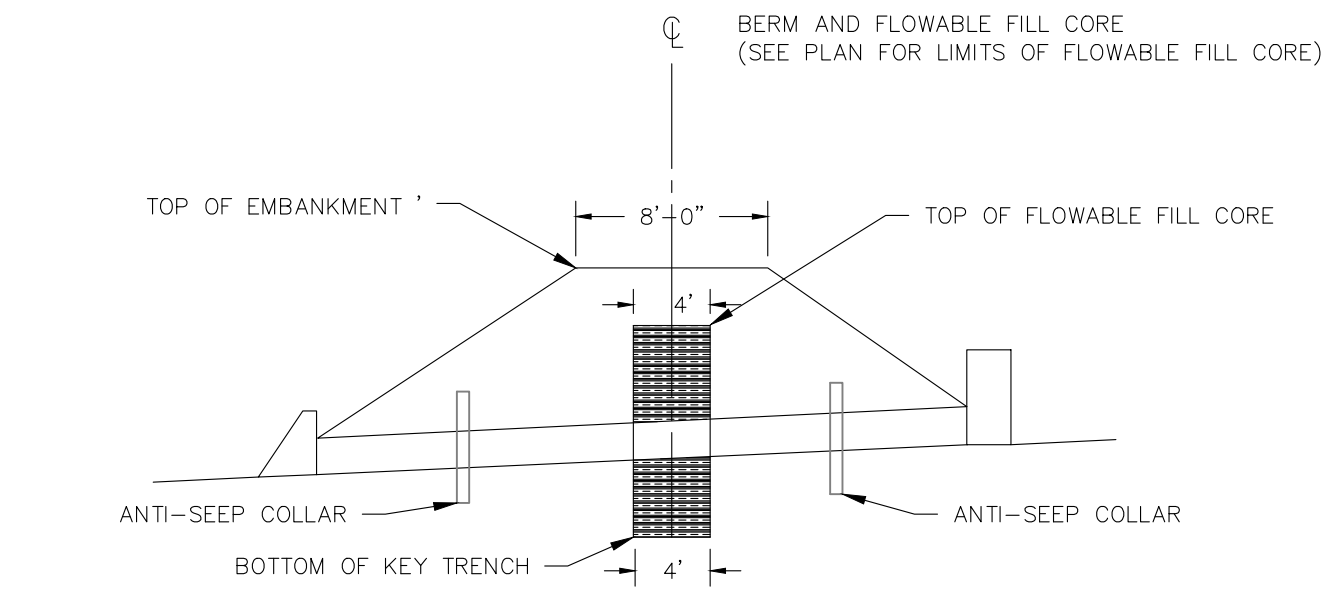
- NOTES:
1. CONCRETE SHALL BE TYPE "C" PER SECTION 3.01, FORM B14
 2. REINFORCING STEEL SHALL BE #4 BARS 3" MIN. CLEARANCE PER SEC. SPEC 3.02
 3. POUR COLLAR IN PLACE AGAINST EXCAVATED KEY IN COMPACTED CORE
 4. INSTALL 2 COLLARS 16" ON CENTER INSIDE COMPACTED IMPERVIOUS CORE
 5. COMPACT PIPE BEDDING & BACKFILL WITH IMPERVIOUS CORE MATERIAL TO DAM CORE REQUIREMENTS WITH SUITABLE COMPACTION EQUIPMENT



- NOTES:
1. CLAY CORE SHALL BE COMPOSED OF IMPORTED CL, CH, MH OR CL-ML SOILS WITH A PERMEABILITY LESS THAN OR EQUAL TO 1.0×10^{-6} CM/S. MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY PER ASTM-D 1557; WITHIN $\pm 3\%$ OPTIMUM MOISTURE CONTENT.
 2. SCARIFY EXISTING GROUND OF LEAFY LITTER AND ORGANIC MATTER PRIOR TO PLACING BERM OR IMPERVIOUS CLAY CORE.

IMPERMEABLE CORE - CLAY OPTION

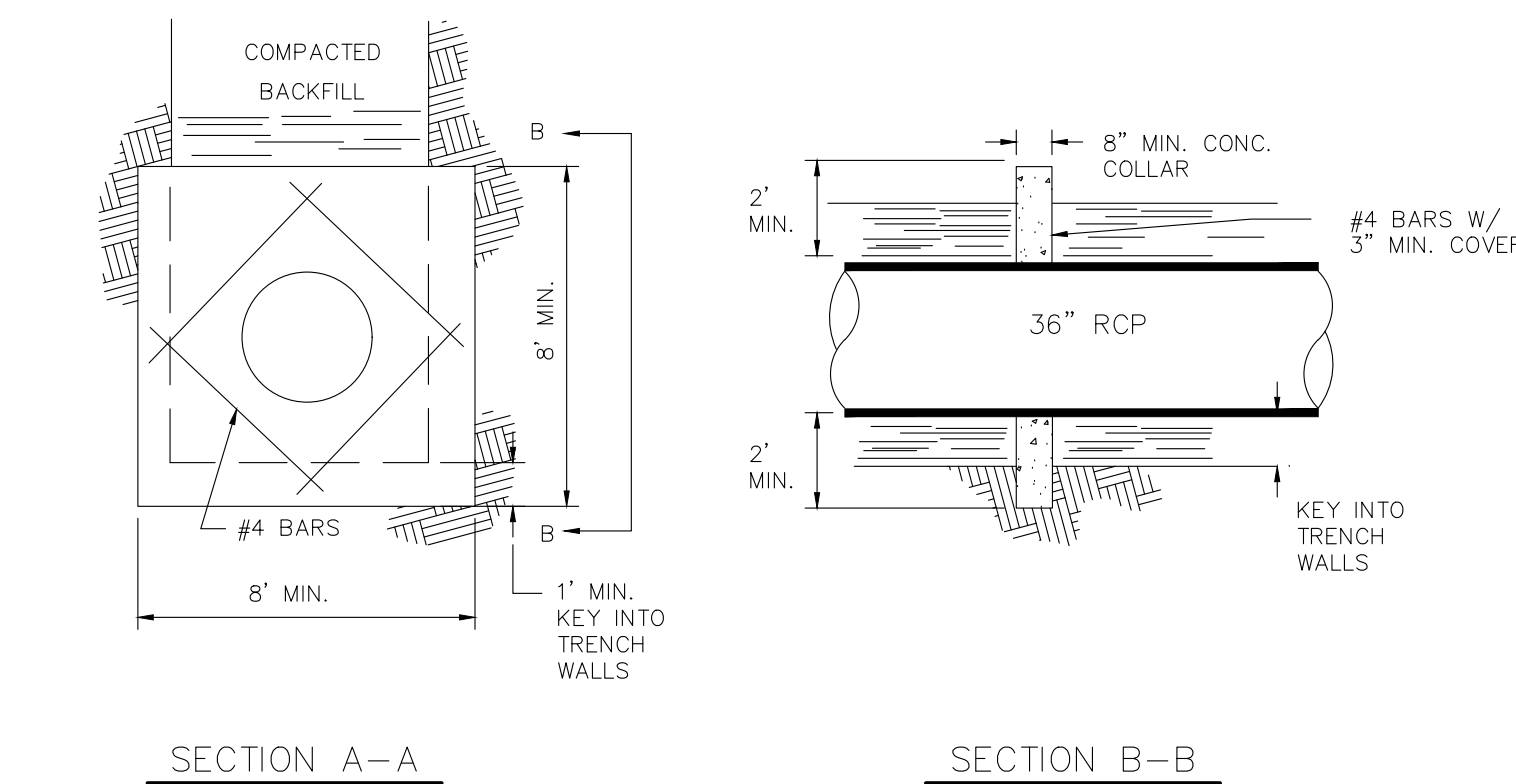
N.T.S.



- NOTES:
1. CONTRACTOR MAY ADD $\frac{3}{4}$ " STONE TO FLOWABLE FILL MIX. CRUSHED STONE TO BE MAXIMUM OF 30% BY VOLUME OF MIX. CONTRACTOR TO ARRANGE FOR TESTING LAB TO TAKE 4 CYLINDER SAMPLES FOR COMPRESSIVE STRENGTH TESTING AT 7 AND 28 DAYS. REFERENCE RFI 011 RESPONSE DATE 4/1/19 FOR CONCRETE COMPRESSIVE STRENGTH REQUIREMENTS.
 2. SCARIFY EXISTING GROUND OF LEAFY LITTER AND ORGANIC MATTER PRIOR TO PLACING BERM OR IMPERVIOUS FLOWABLE FILL CORE.
 3. ANTI-SEEP COLLARS CAN BE OMITTED FROM BASIN NO. 1 IF FLOWABLE FILL CORE IS INSTALLED TO A TOP ELEVATION OF 42.5' AND A BOTTOM ELEVATION OF 35.2' FOR 8 L.F. CENTERED ON THE OUTLET PIPE FOR BASIN NO. 1.
 4. ANTI-SEEP COLLARS CAN BE OMITTED FROM BASIN NO. 2 IF FLOWABLE FILL CORE IS INSTALLED TO A BOTTOM ELEVATION OF 32.2' FOR 8 L.F. CENTERED ON THE OUTLET PIPE FOR BASIN NO. 2.

IMPERMEABLE CORE - FLOWABLE FILL OPTION

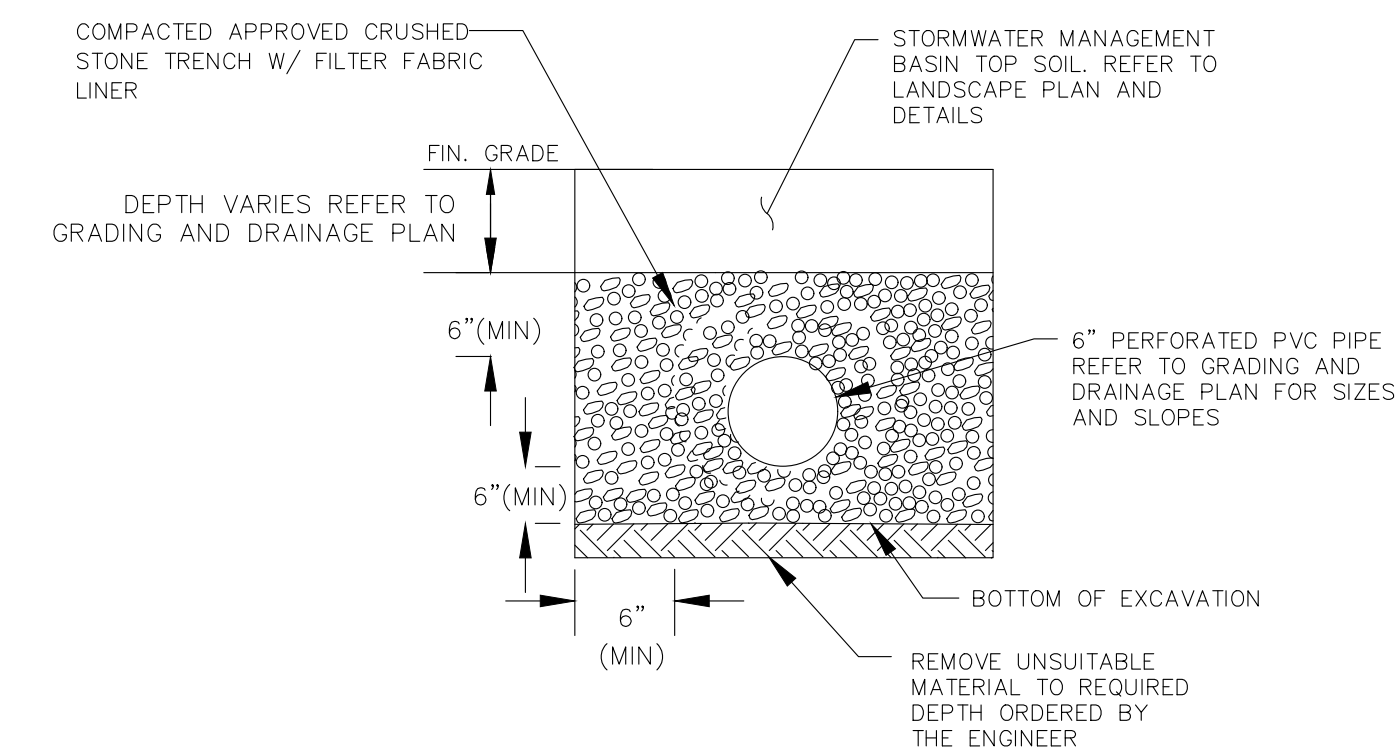
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ANTI-SEEP COLLAR

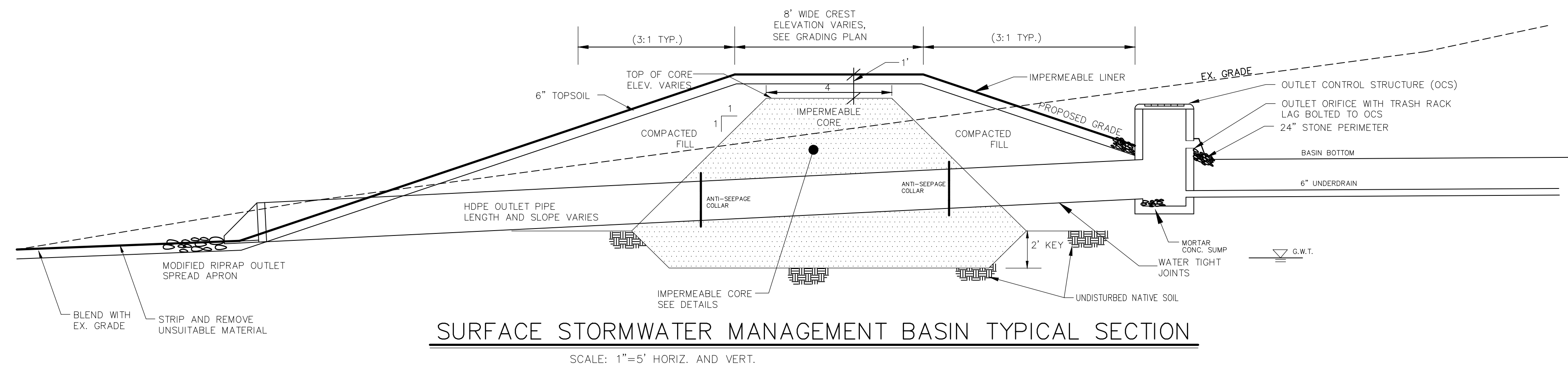
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BLDD-001



SURFACE STORMWATER MANAGEMENT BASIN UNDERDRAIN

N.T.S.



SURFACE STORMWATER MANAGEMENT BASIN TYPICAL SECTION

SCALE: 1"=5' HORIZ. AND VERT.



REVISIONS	Date	Desc.
No.		

Designed	J.P.D.
Drawn	T.L.B.
Reviewed	R.M.R.
Scale	N.T.S.
Project No.	2302349
Date	06/17/2024
CAD File:	DN2302349-10

Title
GRADING AND DRAINAGE DETAILS

Sheet No.

C2.101

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SC-310 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-310.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE OR POLYETHYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLETHYLENE) OR ASTM F2418 (POLYPROPYLENE). "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (4 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- 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 SHALL BE GREATER THAN OR EQUAL TO 400 LBS/FT². THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. 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.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY 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 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2922 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

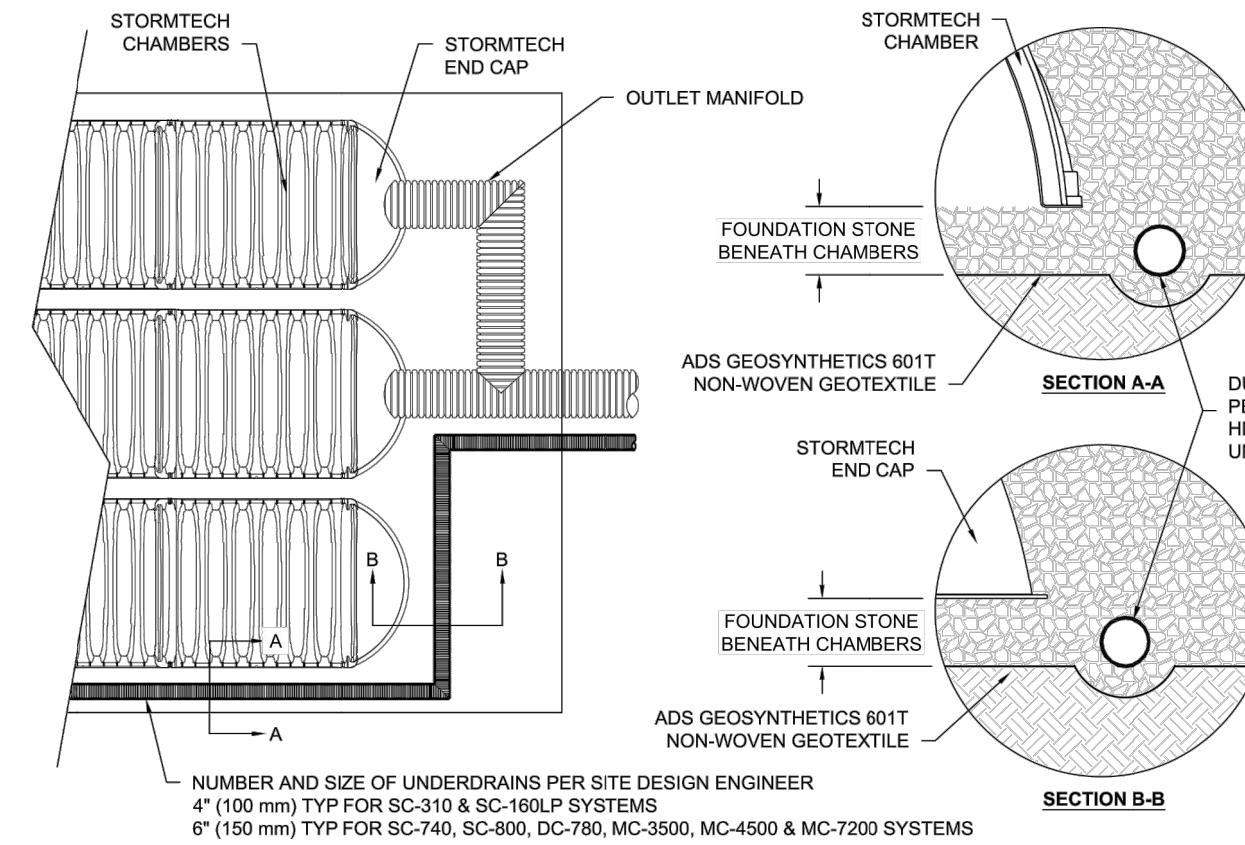
IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310 SYSTEM

- STORMTECH SC-310 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- 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.
- THE FOUNDATION STONE SHALL BE LEVELLED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEALED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
- 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 TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXFORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

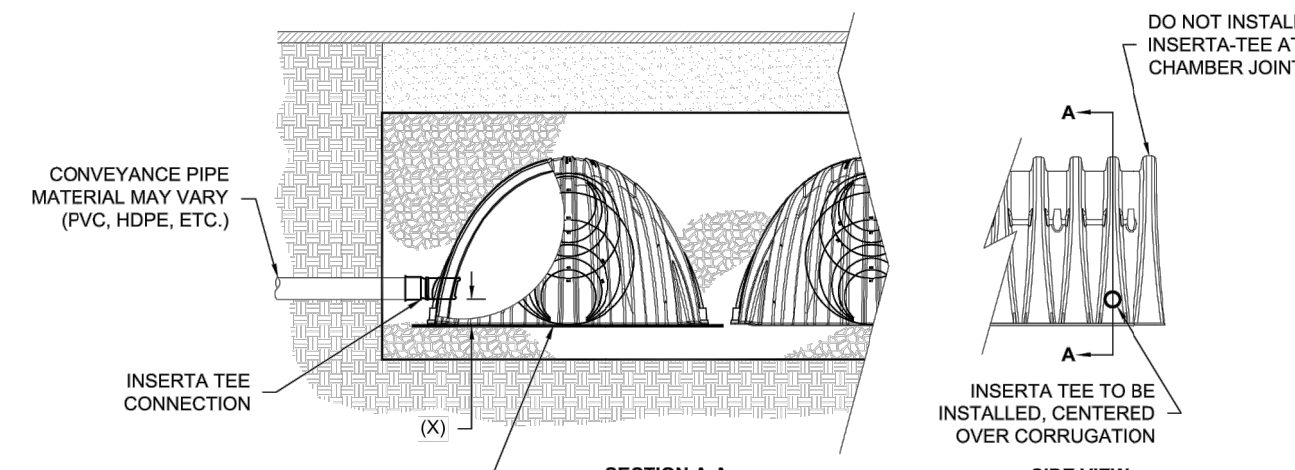
NOTES FOR CONSTRUCTION EQUIPMENT

- STORMTECH SC-310 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & 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 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING. 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.



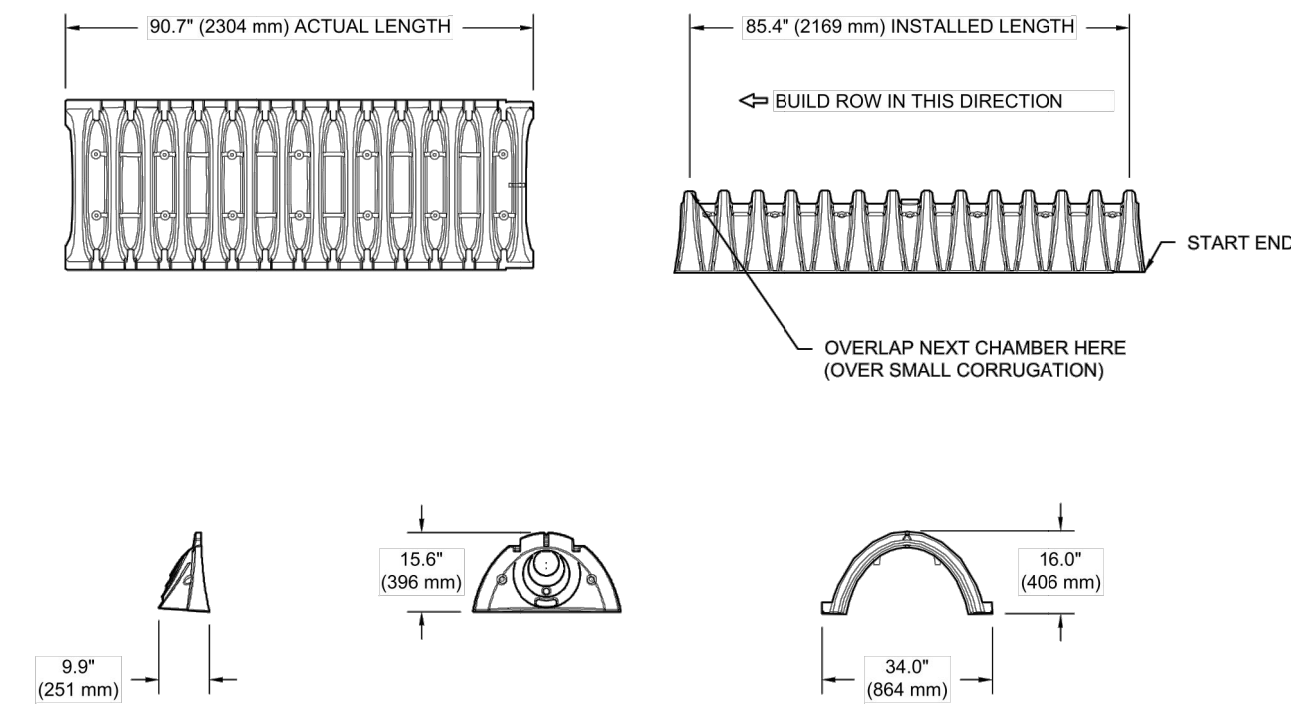
5 UNDERDRAIN DETAIL



CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-740	10" (250 mm)	4" (100 mm)
SC-800	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	6" (150 mm)
MC-7200	12" (300 mm)	6" (150 mm)

NOTE: PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.
CONTACT ADS ENGINEERING SERVICES IF INSERTA TEE INLET MUST BE RAISED AS NOT ALL INVERTS ARE POSSIBLE.

6 INSERTA-TEE SIDE INLET DETAIL



NOMINAL CHAMBER SPECIFICATIONS
SIZE (W X H X INSTALLED LENGTH)
CHAMBER STORAGE
MINIMUM INSTALLED STORAGE*
WEIGHT

34.0" X 16.0" X 85.4"	(864 mm X 406 mm X 2169 mm)
1.47 CUBIC FEET	(0.42 m ³)
31.0 CUBIC FEET	(0.88 m ³)
35.0 lbs.	(16.8 kg)

*ASSUMES 6" (152 mm) ABOVE, BELOW, AND BETWEEN CHAMBERS

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"
PRE-CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC310EPE06T / SC310EPE06TPC	6" (150 mm)	9.6" (244 mm)	5.8" (147 mm)	—
SC310EPE08T / SC310EPE08TPC	8" (200 mm)	11.9" (302 mm)	3.5" (89 mm)	0.5" (13 mm)
SC310EPE10T / SC310EPE10TPC	10" (250 mm)	12.7" (323 mm)	1.4" (36 mm)	—
SC310EPE12T / SC310EPE12TPC	12" (300 mm)	13.5" (343 mm)	—	0.3" (8 mm)

ALL STUBS, EXCEPT FOR THE SC310E0E2E 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 1-888-892-2694.

*FOR THE SC310E0E2E THE 12" (300 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 0.25" (6 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

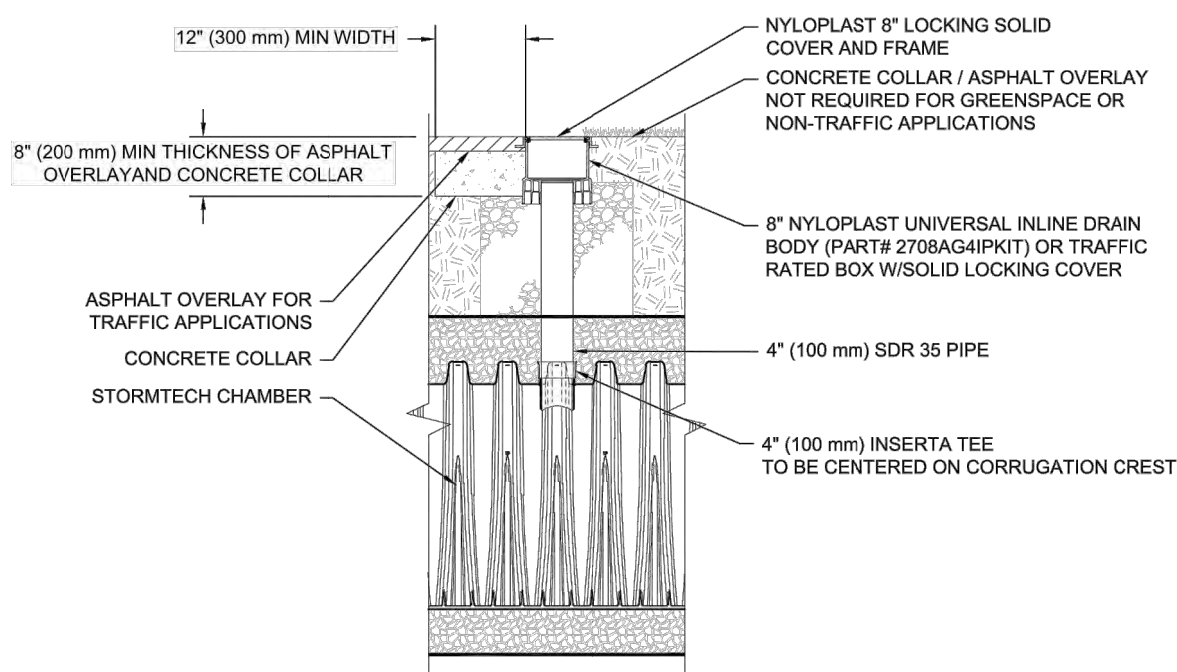
2 SC-310 TECHNICAL SPECIFICATIONS

ACCEPTABLE FILL MATERIALS: STORMTECH SC-310 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.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 1" (25 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2, A-3 OR AASHTO M43 ² 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).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ² 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ² 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{3,4}

- PLEASE NOTE:
- 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 'X' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERSAGES WITH A VIBRATORY COMPACTOR.
 - 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 COMPACTION REQUIREMENTS.
 - 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.
 - WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".

3 SC-310 ISOLATOR ROW PLUS DETAIL



INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT**
- INSPECTION PORTS (IF PRESENT)
 - 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 ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
 - ALL ISOLATOR ROW PLUS ROWS
 - REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
 - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS**
- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - 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.**

NOTES

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

4 4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)

1 SC-310 CROSS SECTION DETAIL



**FOR PERMITTING PURPOSES ONLY
NOT RELEASED FOR CONSTRUCTION**

DRAWN: JLM DATE: 01/09/24
REVIEWED: JLM PROJECT NO:
REV: NOT TO SCALE

SC-310 STANDARD DETAIL

StormTech
Chamber System
888-892-2694 | WWW.STORMTECH.COM

4640 TRUENAM BLVD
HILLIARD, OH 43026

ADS
Advanced Drainage Systems, Inc.

SHEET

1

ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON REFERENCED STANDARDS. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT. NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. UNLESS THE PLANS ARE SIGNED AND SEALED BY THE SITE DESIGN ENGINEER, THE SITE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION AND SEALING THE DOCUMENT. IT IS THE SITE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.



PROPOSED LIGHT MANUFACTURING
296 FLANDERS ROAD
EAST LYME, CONNECTICUT

Designed: J.P.D.
Drawn: T.L.B.
Reviewed: R.M.R.
Scale: N.T.S.
Project No.: 2302349
Date: 06/17/2024
CAD File: DN2302349-10
Title: GRADING AND DRAINAGE DETAILS
Sheet No.

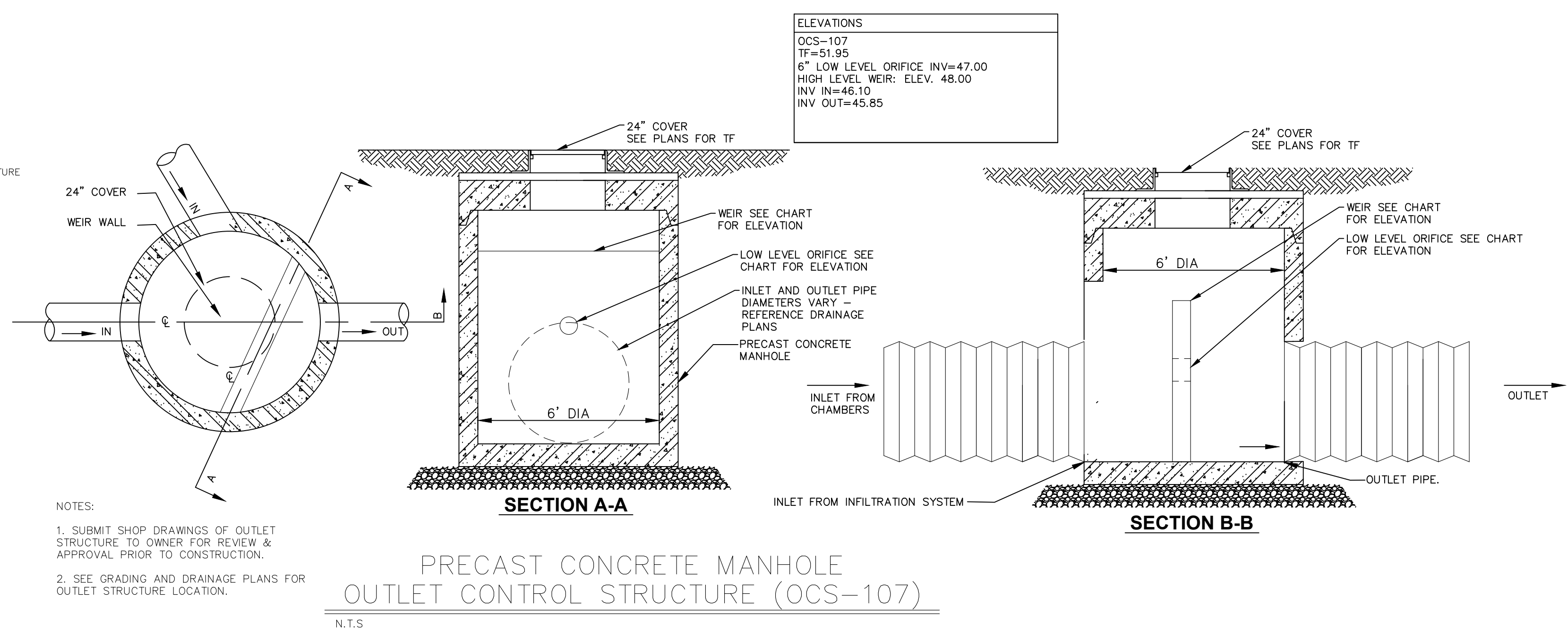
C2.102



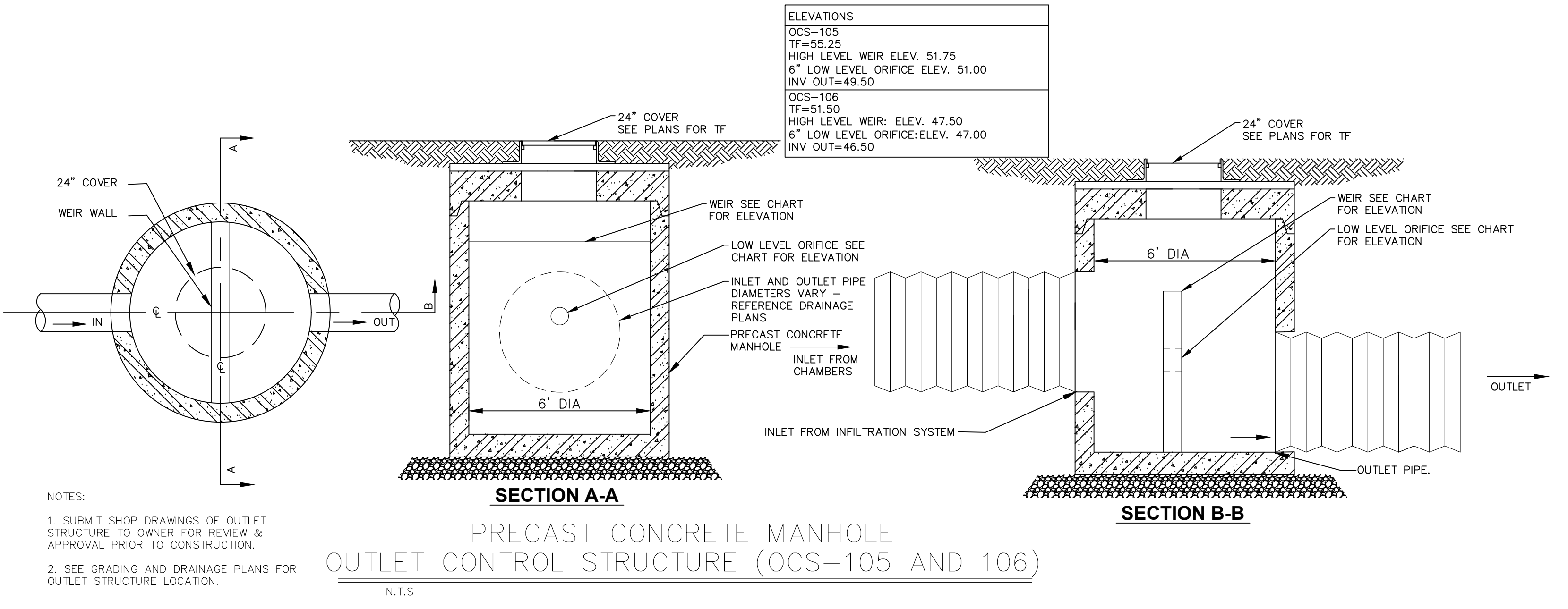
REVISIONS	Date	Desc.
No.		

Designed J.P.D.
Drawn T.L.B.
Reviewed R.M.R.
Scale N.T.S.
Project No. 2302349
Date 06/17/2024
CAD File: DN2302349-10

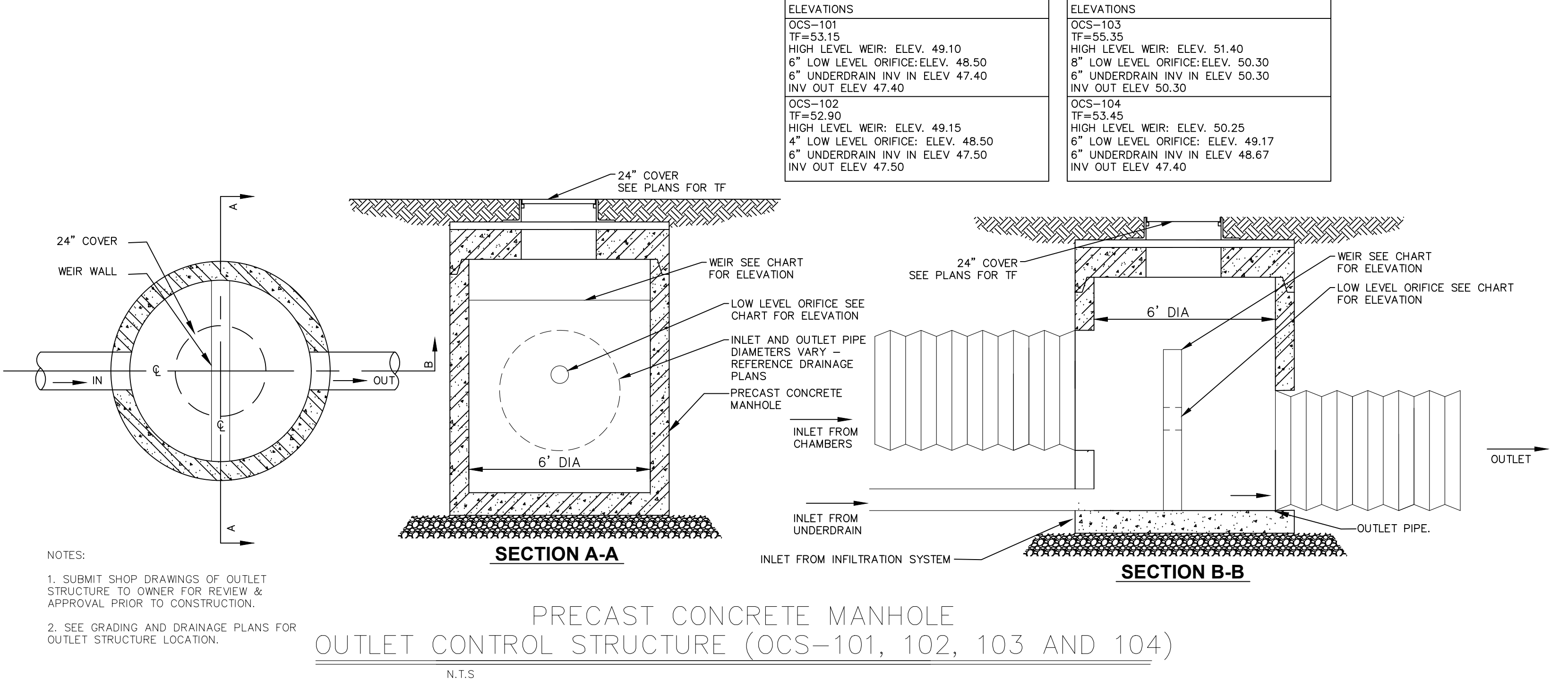
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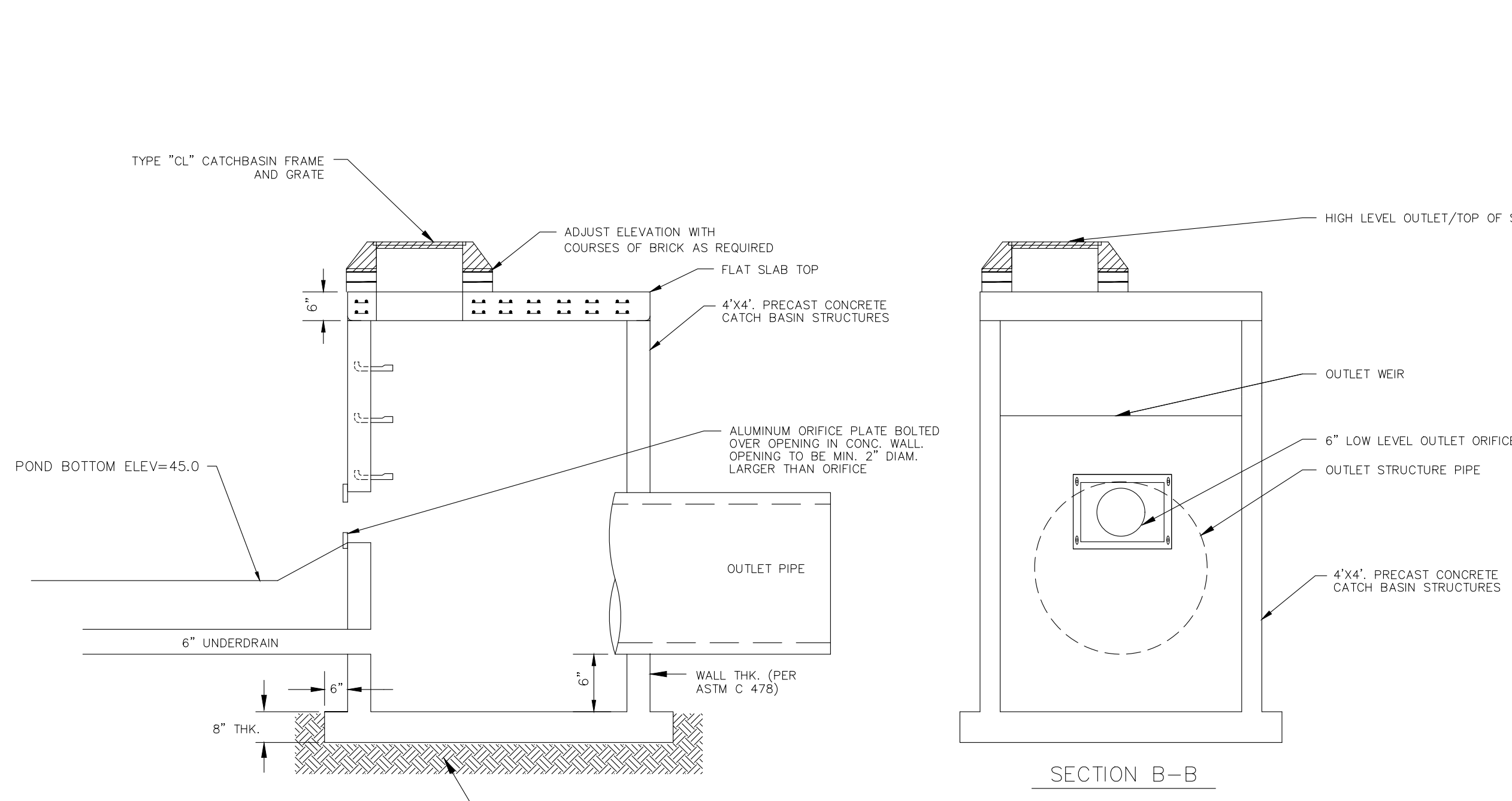
- NOTES:
1. SUBMIT SHOP DRAWINGS OF OUTLET STRUCTURE TO OWNER FOR REVIEW & APPROVAL PRIOR TO CONSTRUCTION.
 2. SEE GRADING AND DRAINAGE PLANS FOR OUTLET STRUCTURE LOCATION.



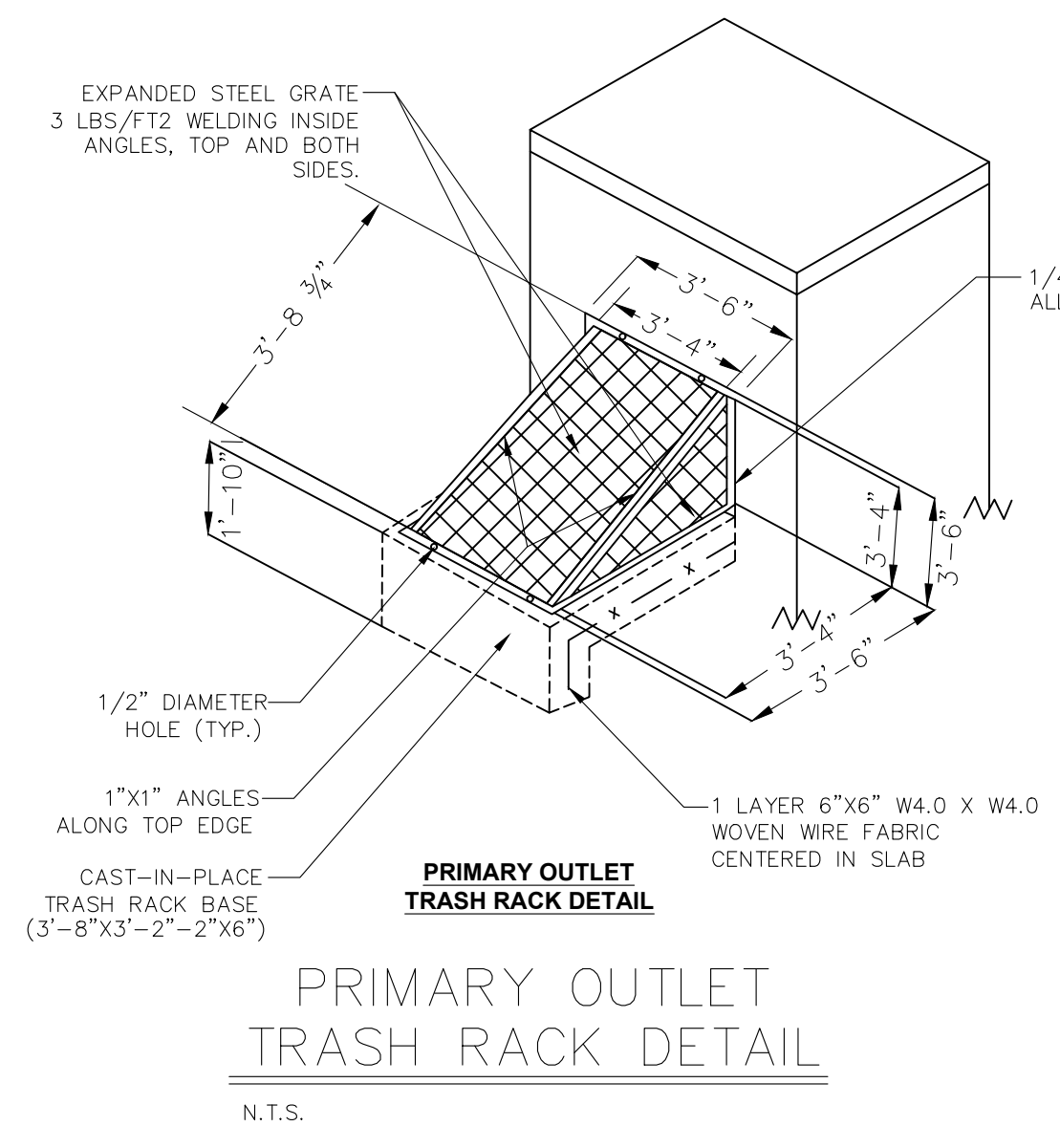
- NOTES:
1. SUBMIT SHOP DRAWINGS OF OUTLET STRUCTURE TO OWNER FOR REVIEW & APPROVAL PRIOR TO CONSTRUCTION.
 2. SEE GRADING AND DRAINAGE PLANS FOR OUTLET STRUCTURE LOCATION.



- NOTES:
1. SUBMIT SHOP DRAWINGS OF OUTLET STRUCTURE TO OWNER FOR REVIEW & APPROVAL PRIOR TO CONSTRUCTION.
 2. SEE GRADING AND DRAINAGE PLANS FOR OUTLET STRUCTURE LOCATION.



- NOTES:
1. ORIFICE PLATE SHALL BE 3/8" ALUMINUM PLATE, PAINTED BLACK. PLATE TO HAVE 1"x3" ELONGATED HOLES FOR MOUNTING
 2. CORE DRILL A 12" DIAMETER HOLE INTO OUTLET STRUCTURE AND ADJUST THE ORIFICE PLATE AT THE SPECIFIED INVERT ELEVATION.
 3. MOUNT ORIFICE PLATE TO OUTLET WITH 3/4" STAINLESS STEEL BOLTS AND WASHERS. ADJUST PLATE TO FINAL ELEVATIONS.
 4. SUBMIT SHOP DRAWINGS OF OUTLET STRUCTURE TO OWNER FOR REVIEW & APPROVAL PRIOR TO CONSTRUCTION.
 5. SEE GRADING AND DRAINAGE PLANS FOR OUTLET STRUCTURE LOCATION.



FOR PERMITTING PURPOSES ONLY
NOT RELEASED FOR CONSTRUCTION

SITE UTILITIES PLAN LEGEND

	PROPERTY LINE
	PROPOSED EGRESS EASEMENT
	LIMIT OF DISTURBANCE
	MATCH LINE
	SAWCUT LINE
	WETLAND LINE
	LIMIT OF INLAND WETLAND 300' UPLAND REVIEW AREA
	AQUIFER PROTECTION ZONE LINE
	FEMA FLOOD ZONE LINE
	ELECTRICAL LINE
	OVERHEAD WIRE
	TELECOMMUNICATION LINE
	GAS LINE
	DOMESTIC WATER LINE
	FIRE PROTECTION WATER LINE
	SANITARY SEWER LINE
	SANITARY SEWER FORCE MAIN
	UTILITY POLE
	GATE VALVE



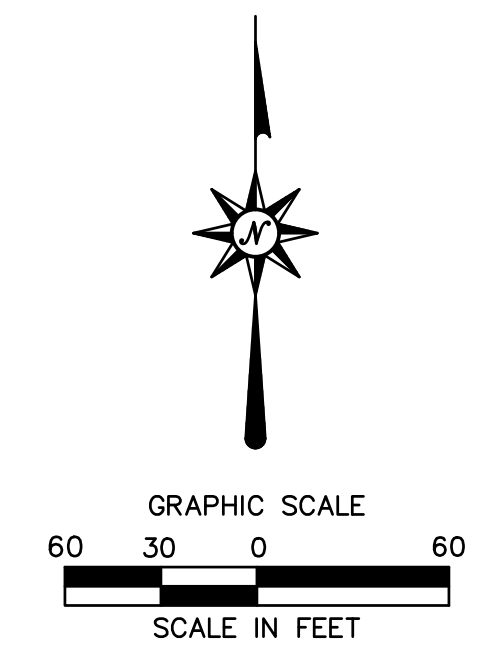
100 Constitution Plaza
10th Floor
Hartford, CT 06103
(860) 249-2200



PROPOSED LIGHT MANUFACTURING
296 FLANDERS ROAD
EAST LYME, CONNECTICUT



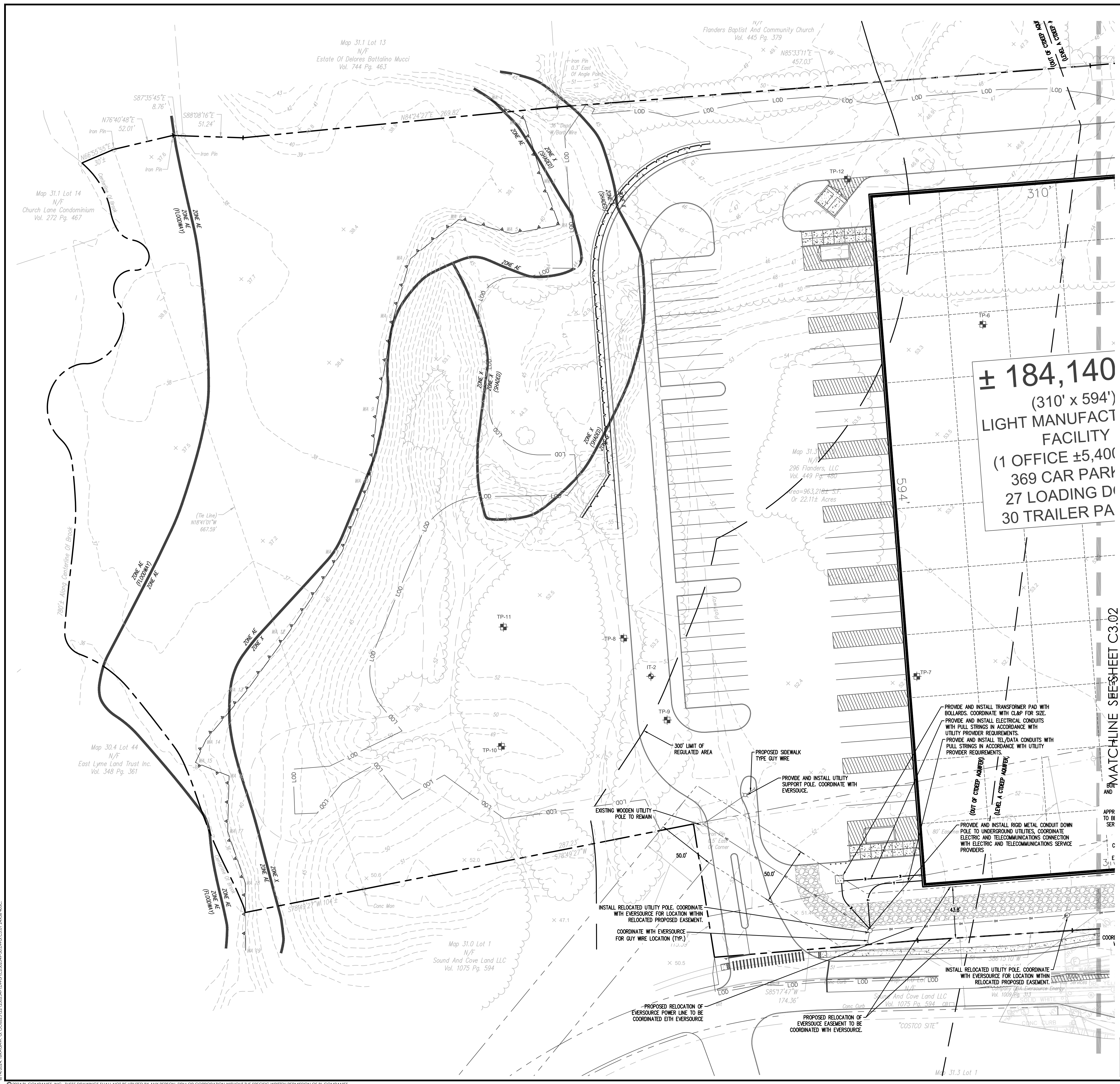
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6/14/2024, 10:46AM, CIVIL, C:\PROJECTS\2024\296 FLANDERS RD\DWG\C3.00.DWG, C:\00_24\3634_602C

DESIGNED	J.P.D.
DRAWN	T.L.B.
REVIEWED	R.M.R.
SCALE	1"=60'
PROJECT NO.	2302349
DATE	06/17/2024
CAD FILE	C:\2302349-30
TITLE	OVERALL SITE UTILITY PLAN
SHEET NO.	C3.00

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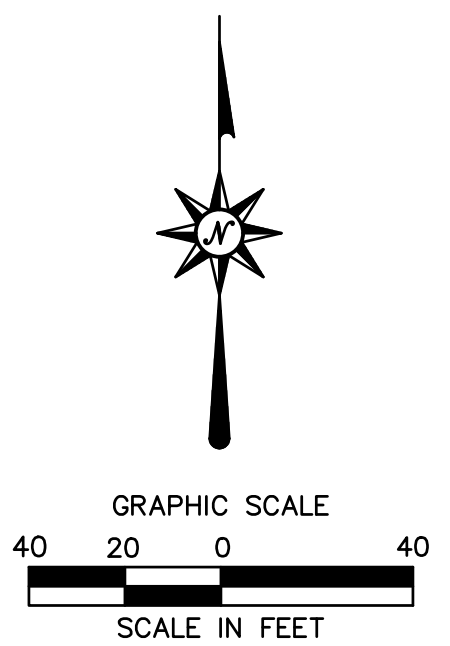
SITE UTILITIES PLAN LEGEND

	PROPERTY LINE
	PROPOSED EVERSOURCE EASEMENT
	LIMIT OF DISTURBANCE
	MATCH LINE
	SAWCUT LINE
	WETLAND LINE
	LIMIT OF INLAND WETLAND 300' UPLAND REVIEW AREA
	AQUIFER PROTECTION ZONE LINE
	FEMA FLOOD ZONE LINE
	ELECTRICAL LINE
	OVERHEAD WIRE
	TELECOMMUNICATION LINE
	GAS LINE
	DOMESTIC WATER LINE
	FIRE PROTECTION WATER LINE
	SANITARY SEWER LINE
	SANITARY SEWER FORCE MAIN
	UTILITY POLE
	GATE VALVE

± 184,140
 (310' x 594')
LIGHT MANUFACTURING FACILITY
 (1 OFFICE ±5,400)
 369 CAR PARK
 27 LOADING DOCKS
 30 TRAILER PADS

MATCHLINE SEE SHEET C3.02

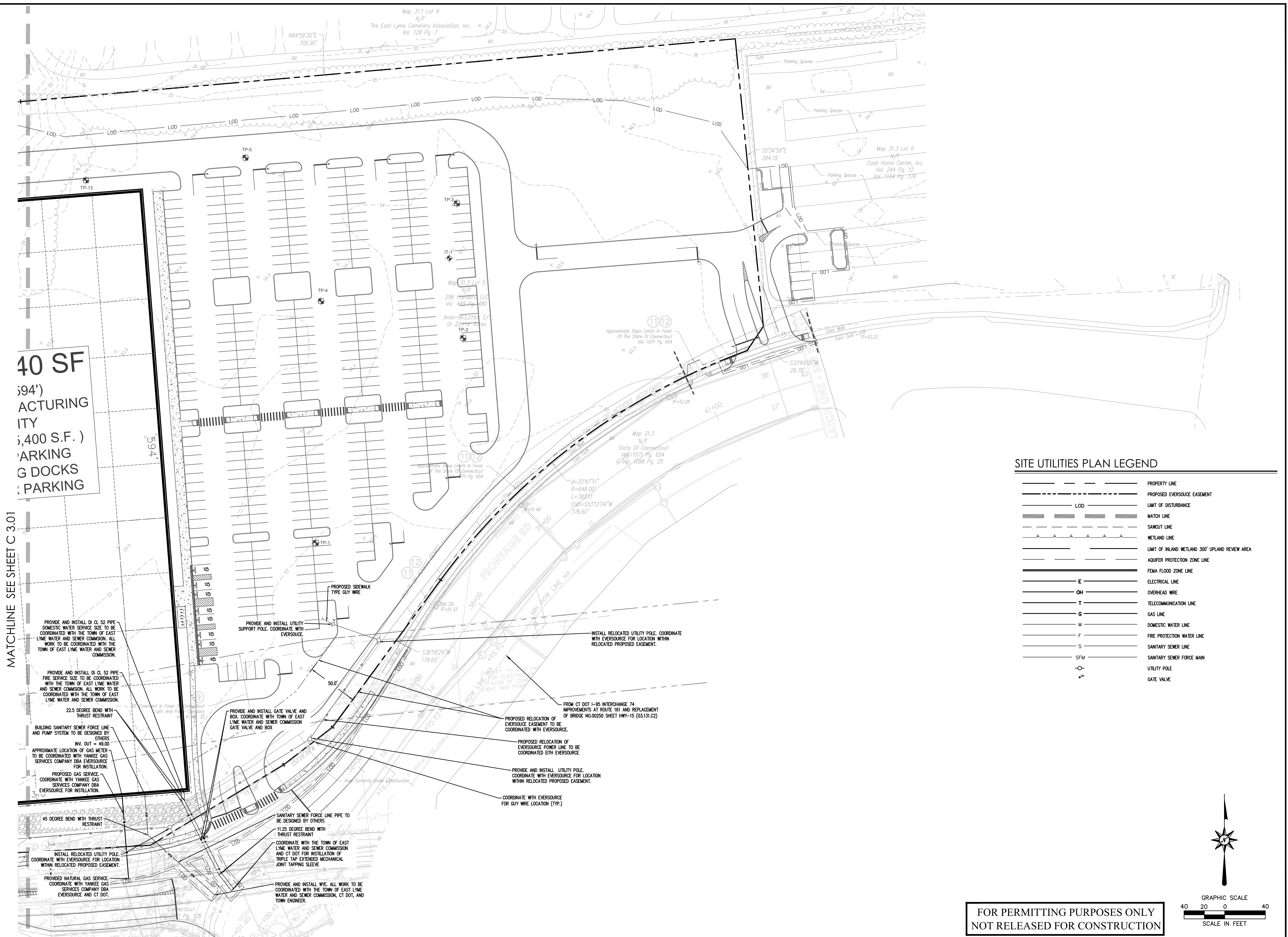
**FOR PERMITTING PURPOSES ONLY
 NOT RELEASED FOR CONSTRUCTION**



PROPOSED LIGHT MANUFACTURING
 296 FLANDERS ROAD
 EAST LYME, CONNECTICUT

DESIGNED	J.P.D.
DRAWN	T.L.B.
REVIEWED	R.M.R.
SCALE	1"=40'
PROJECT NO.	2302349
DATE	06/17/2024
CAD FILE	C2302349-30
TITLE	SITE UTILITY PLAN
SHEET NO.	C3.01

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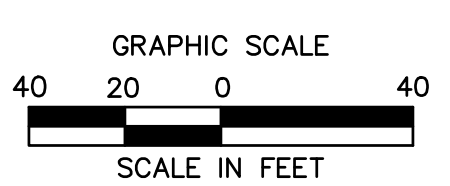
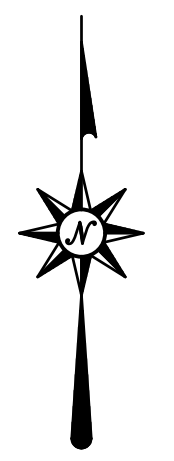


40 SF
 (94')
 ACTURING
 ITY
 (4,00 S.F.)
 ARKING
 G DOCKS
 PARKING

MATCHLINE SEE SHEET C 3.01

SITE UTILITIES PLAN LEGEND

	PROPERTY LINE
	PROPOSED EVERSOURCE EASEMENT
	LIMIT OF DISTURBANCE
	MATCH LINE
	SAWCUT LINE
	WETLAND LINE
	LIMIT OF INLAND WETLAND 300' UPLAND REVIEW AREA
	AQUIFER PROTECTION ZONE LINE
	FEMA FLOOD ZONE LINE
	ELECTRICAL LINE
	OVERHEAD WIRE
	TELECOMMUNICATION LINE
	GAS LINE
	DOMESTIC WATER LINE
	FIRE PROTECTION WATER LINE
	SANITARY SEWER LINE
	SANITARY SEWER FORCE MAIN
	UTILITY POLE
	GATE VALVE



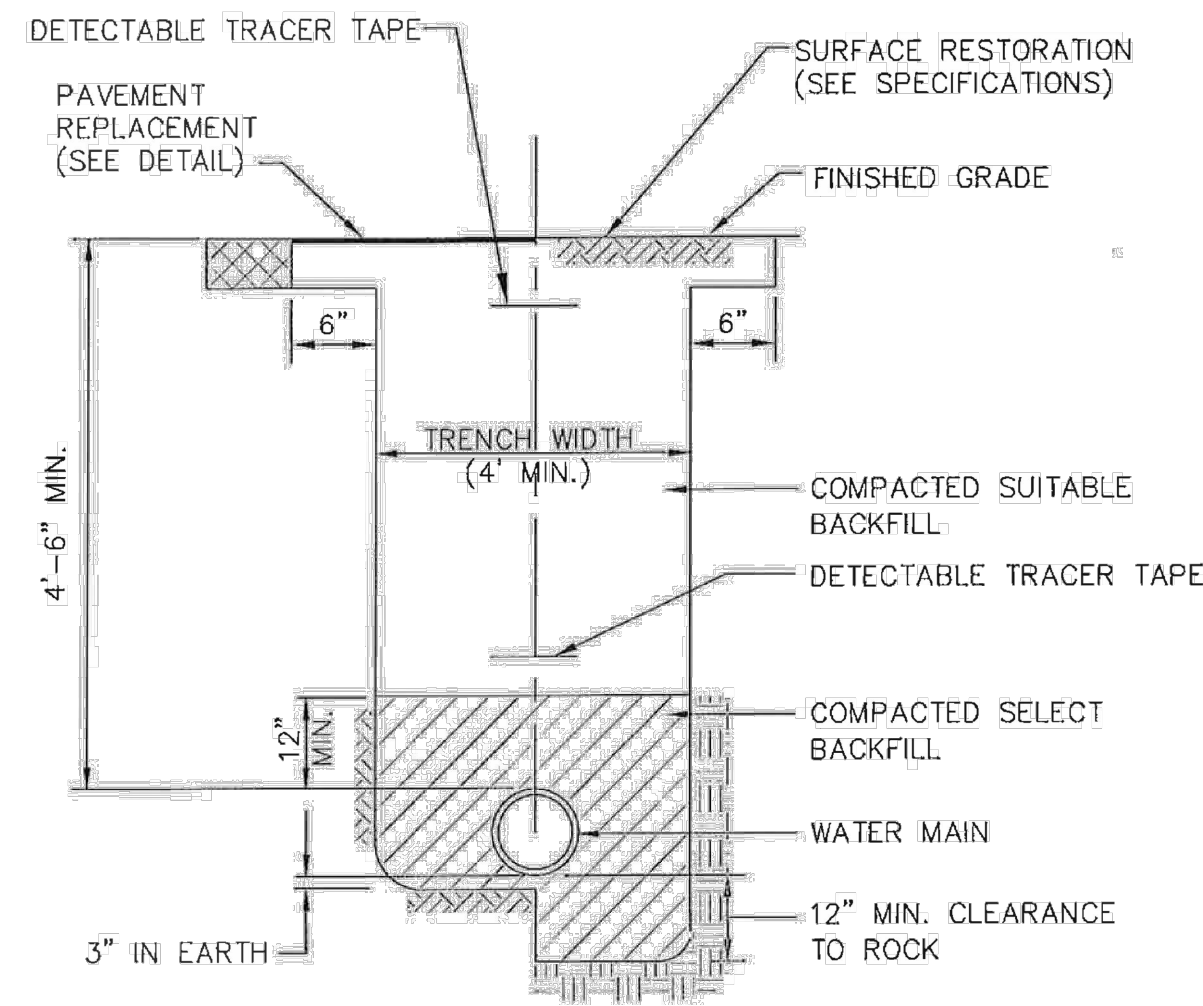
**FOR PERMITTING PURPOSES ONLY
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PROPOSED LIGHT MANUFACTURING
 296 FLANDERS ROAD
 EAST LYME, CONNECTICUT

DESIGNED	J.P.D.
DRAWN	T.L.B.
REVIEWED	R.M.R.
SCALE	1"=40'
PROJECT NO.	2302349
DATE	06/17/2024
CAD FILE	C2302349-30
TITLE	SITE UTILITY PLAN
SHEET NO.	C3.02

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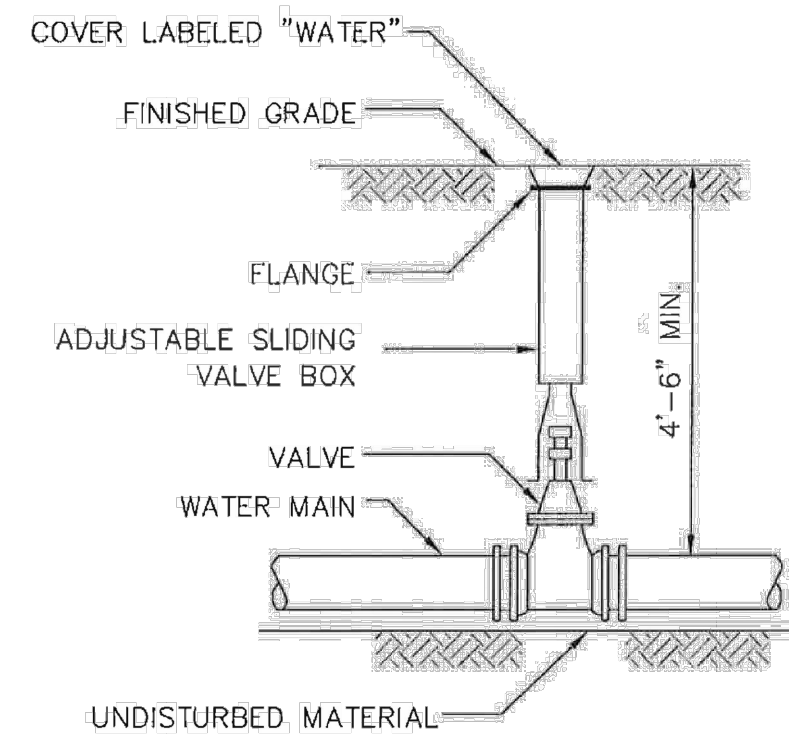
TYPICAL WATER MAIN TRENCH
N.T.S.

PREPARED BY
THE EAST LYME
WATER AND SEWER
DEPARTMENT

**WATER MAIN AND SERVICE INSTALLATIONS
STANDARD DETAILS**
EAST LYME, CONNECTICUT

Date:	Drawn By:	Checked By:	Dwg. No.:	Sheet No.:
JANUARY, 2010	FJG	BK	2.1	

SCALE: AS SHOWN



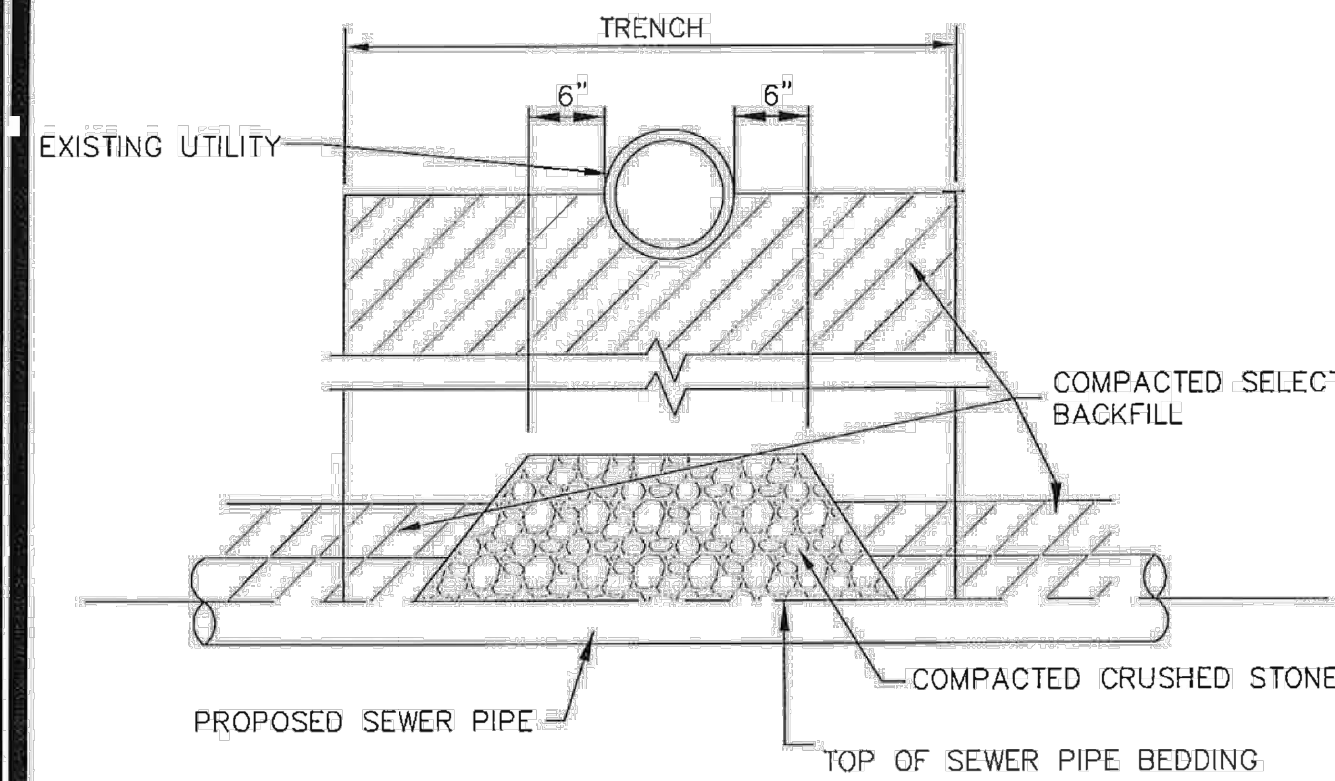
TYPICAL GATE VALVE AND BOX
N.T.S.

PREPARED BY
THE EAST LYME
WATER AND SEWER
DEPARTMENT

**WATER MAIN AND SERVICE INSTALLATIONS
STANDARD DETAILS**
EAST LYME, CONNECTICUT

Date:	Drawn By:	Checked By:	Dwg. No.:	Sheet No.:
JANUARY, 2010	FJG	BK	2.5	

SCALE: AS SHOWN



UTILITY CROSSING DETAIL
N.T.S.

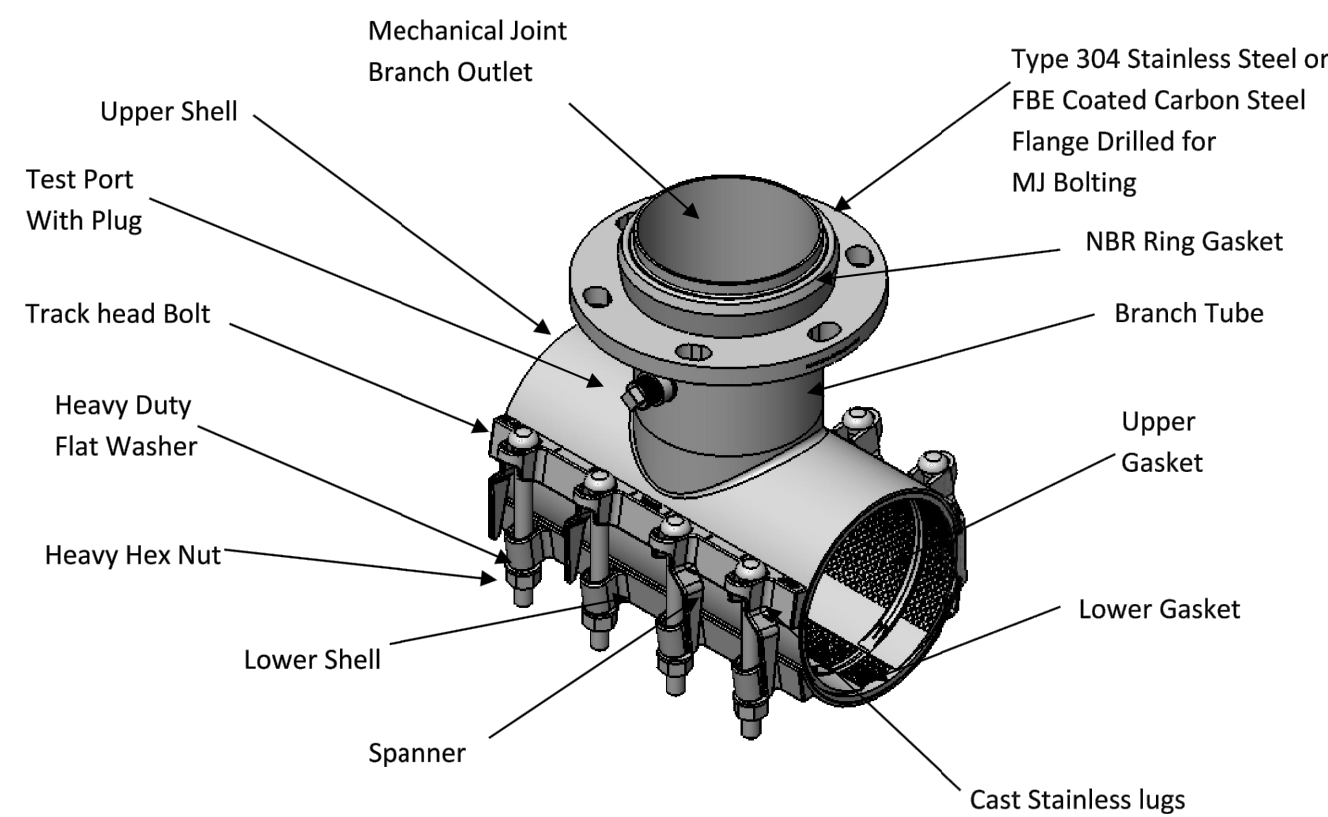
PREPARED BY
THE EAST LYME
WATER AND SEWER
DEPARTMENT

**SEWER MAIN AND SERVICE INSTALLATIONS
STANDARD DETAILS**
EAST LYME, CONNECTICUT

Date:	Drawn By:	Checked By:	Dwg. No.:	Sheet No.:
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SCALE: AS SHOWN

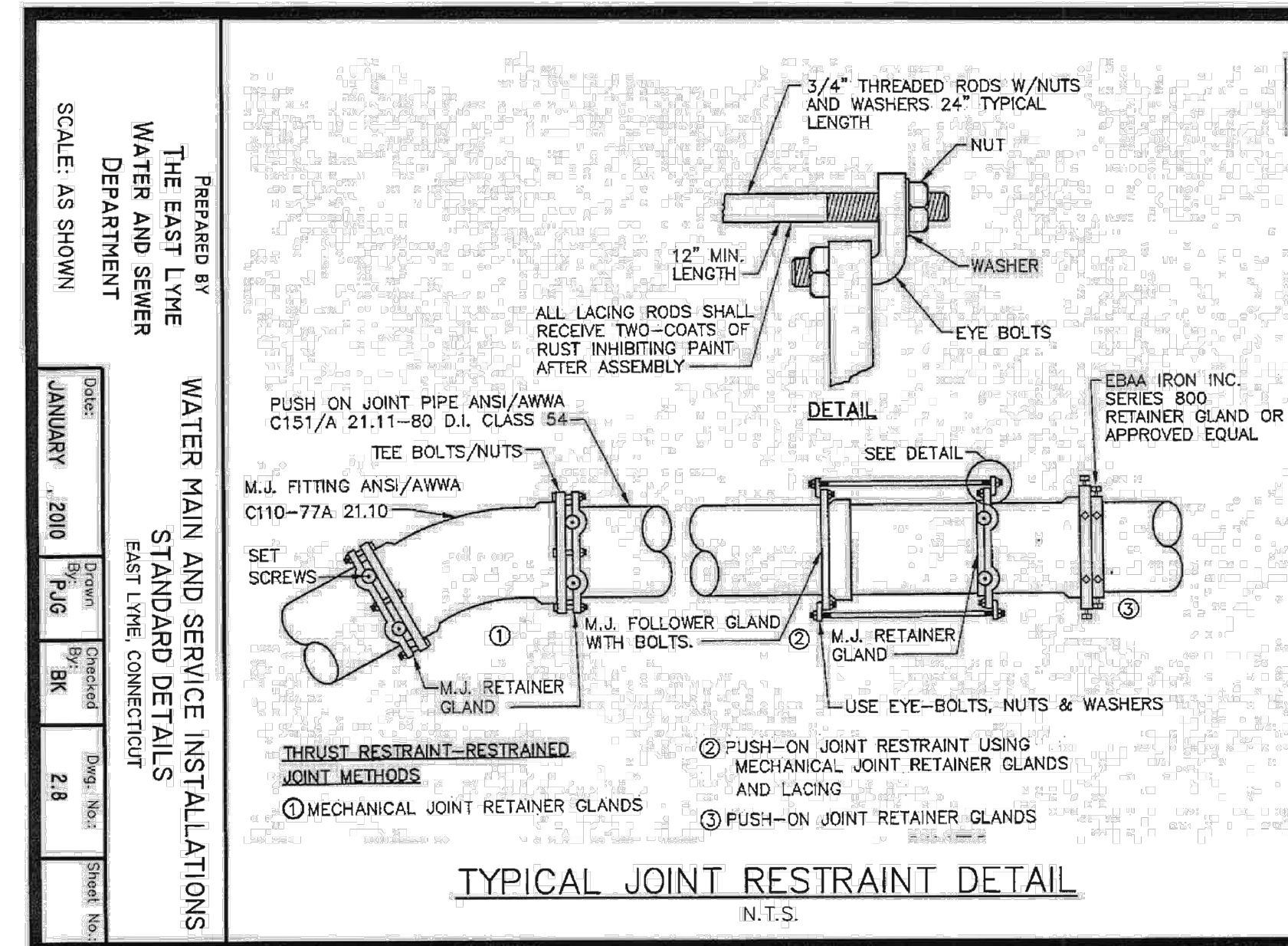
Triple Tap® Extended Range Stainless Steel MJ Tapping Sleeve Specifications



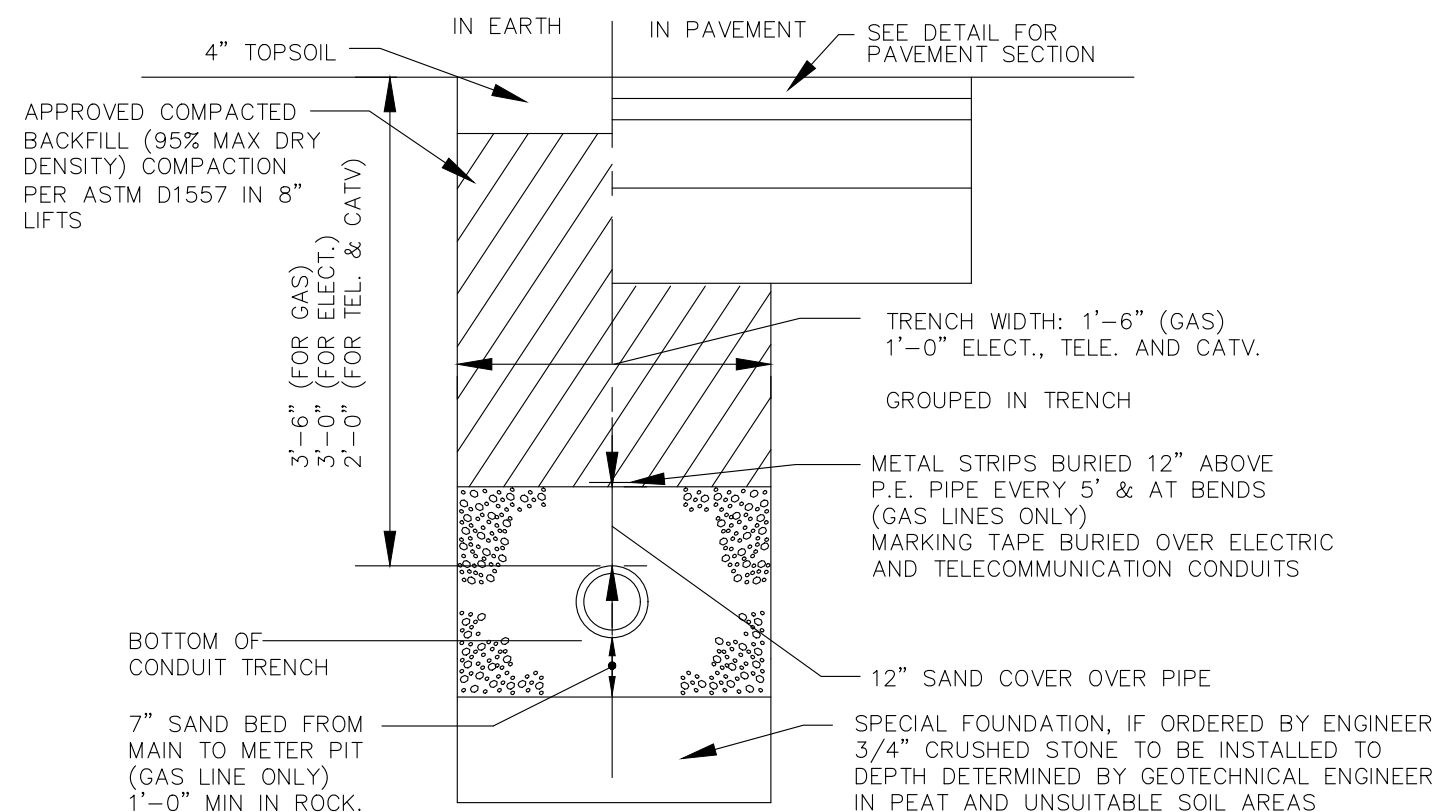
- Flange:** Type 304 Stainless Steel 18-8 or Fusion Bonded Epoxy (FBE) Coated Carbon Steel
- Branch Tube:** 18-8 Stainless Steel Schedule 5 or Schedule 10 wall thickness
- Upper Shell:** 10, 11 or 12 Gage 18-8 Stainless Steel depending on diameter
- Lower Shell:** 10, 11 or 12 Gage 18-8 Stainless Steel depending on diameter
- Upper Gasket:** Patent pending one piece matte gasket with integrated aperture seal and circumferential seal beads for a 360 degree seal.
- Lower Gasket:** Matte gasket with matching circumferential seal beads for a 360 degree seal.
- Alignment Lugs:** 18-8 Stainless Steel
- Gaskets:** Material: Nitrile Butadiene Rubber (NBR) Approved NSF-61.
- Spanners:** 18-8 Stainless Steel bridging spanner integrally molded into gasket.
- Test Port:** 18-8 Stainless Steel 1/4 Inch NPT Female Vent Port with 18-8 Stainless Steel Pipe Plug



TRIPLE TAP MECHANICAL JOINT TAPPING SLEEVE
N.T.S.



TYPICAL JOINT RESTRAINT DETAIL
N.T.S.



**ELECTRICAL, TELECOMMUNICATION
TRENCH DETAIL**



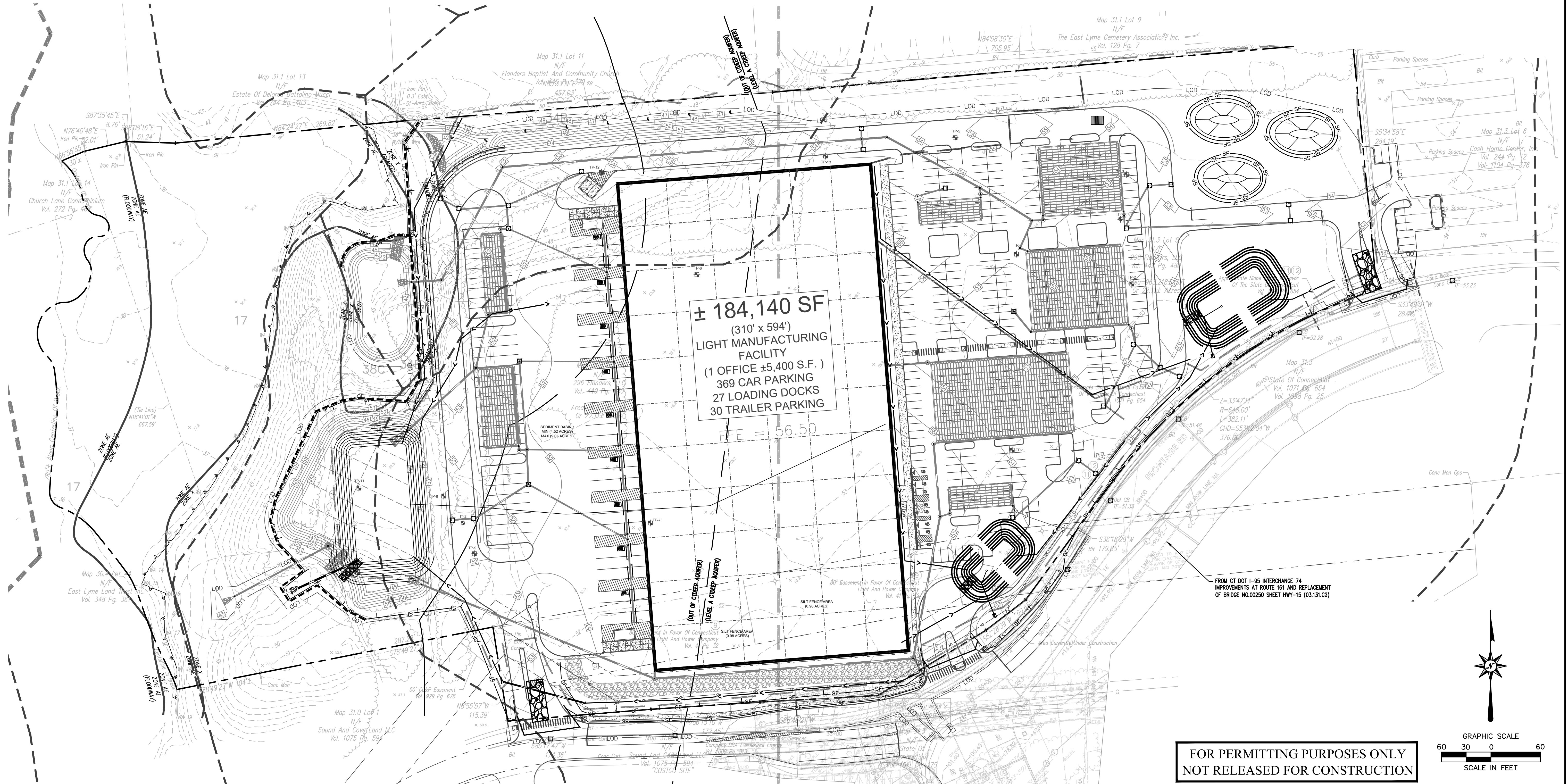
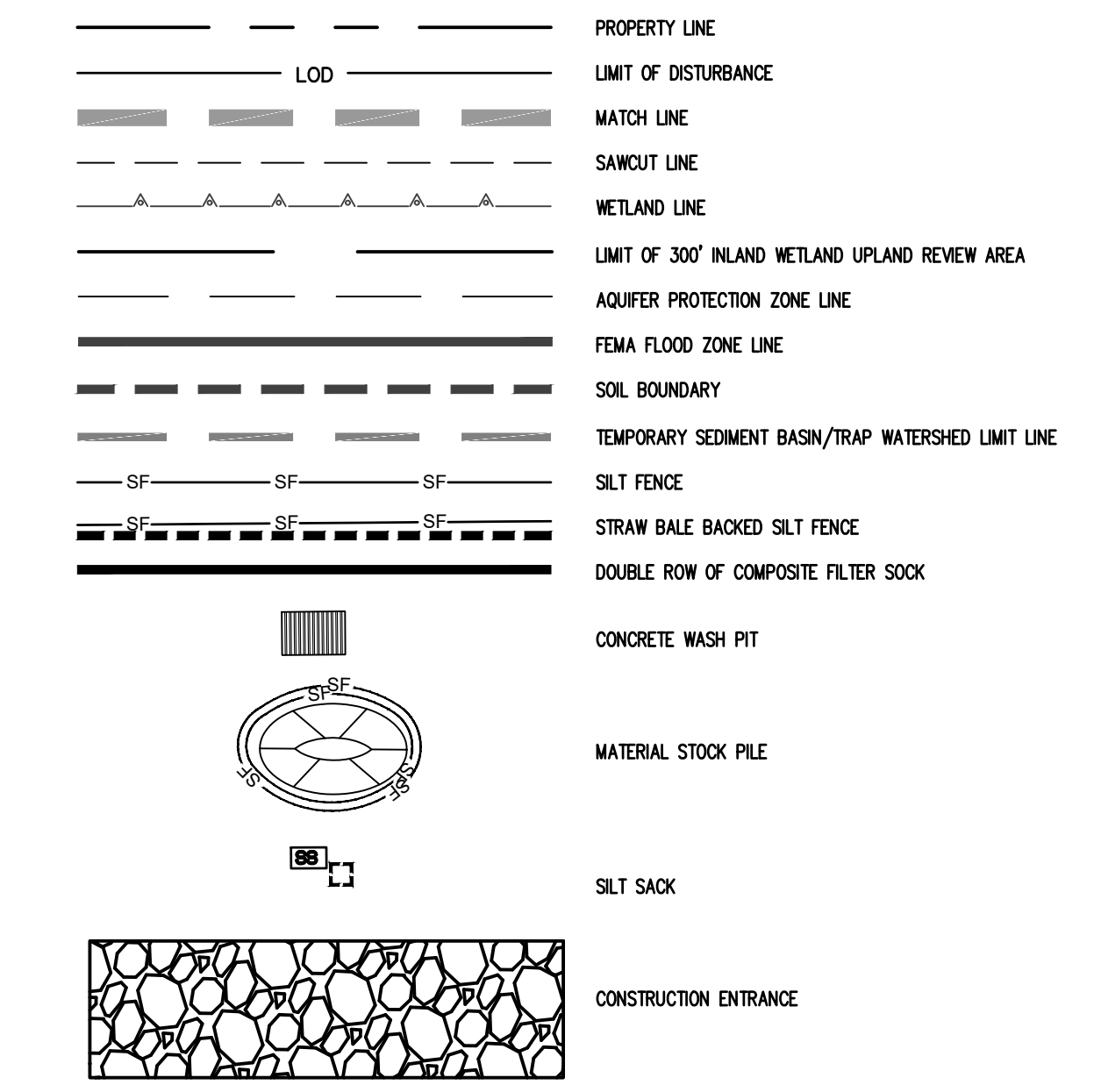
REVISIONS	Date	Desc.
No.		
Designed	J.P.D.	
Drawn	T.L.B.	
Reviewed	R.M.R.	
Scale	N.T.S.	
Project No.	2302349	
Date	06/17/2024	
CAD File:	DN2302349-10	

Title
**SITE UTILITY
DETAILS**

Sheet No.

FOR PERMITTING PURPOSES ONLY
NOT RELEASED FOR CONSTRUCTION

EROSION AND SEDIMENT CONTROL PLAN LEGEND



± 184,140 SF
 (310' x 594')
 LIGHT MANUFACTURING
 FACILITY
 (1 OFFICE ±5,400 S.F.)
 369 CAR PARKING
 27 LOADING DOCKS
 30 TRAILER PARKING
 F.F.E. = 56.50

FOR PERMITTING PURPOSES ONLY
 NOT RELEASED FOR CONSTRUCTION



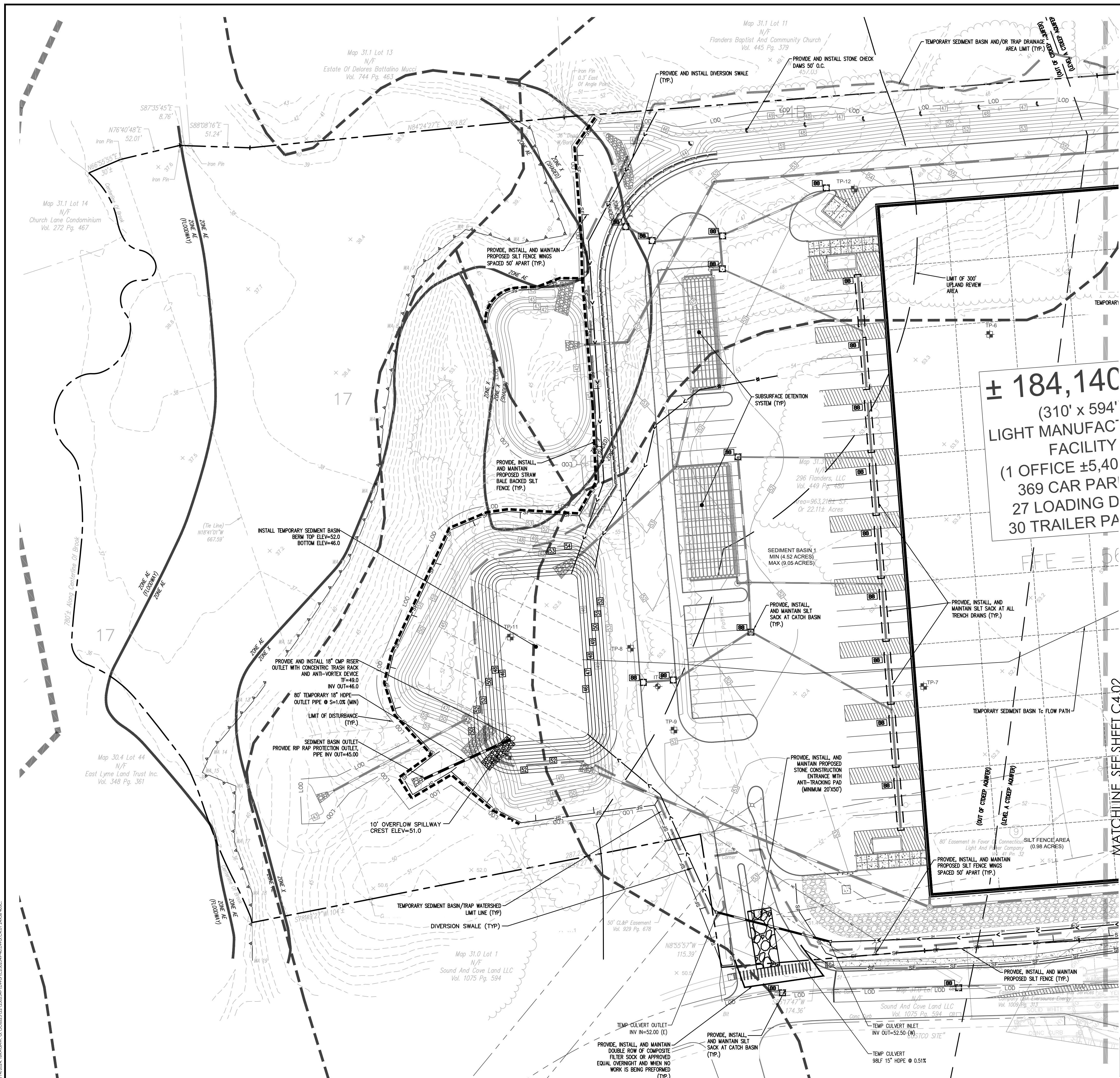
PROPOSED LIGHT MANUFACTURING
 296 FLANDERS ROAD
 EAST LYME, CONNECTICUT

REV/ISSUES	Desc.	Date
No.		

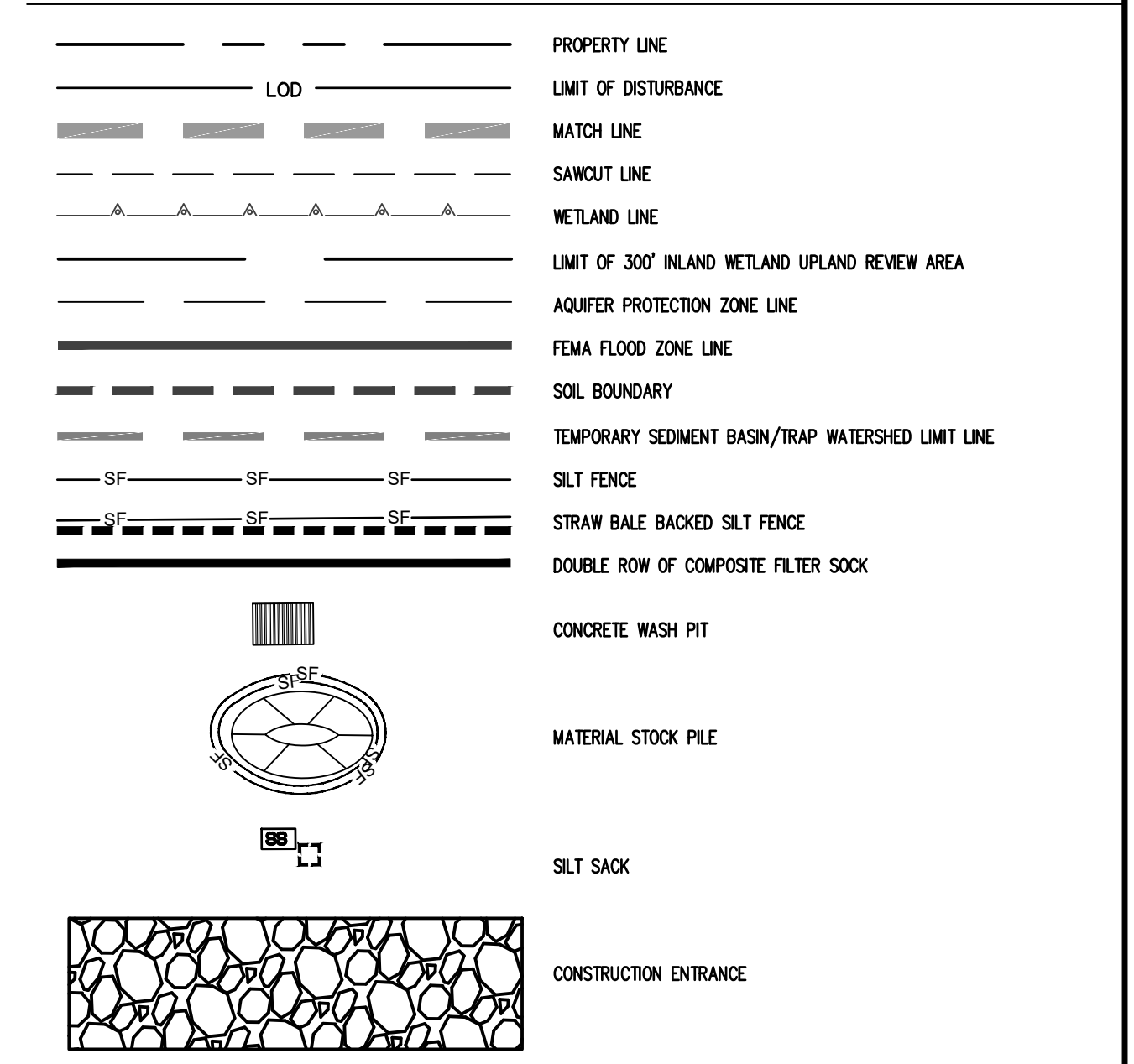
Designed	J.P.D.
Drawn	T.L.B.
Reviewed	R.M.R.
Scale	1"=60'
Project No.	2302349
Date	06/17/2024
CAD File:	C2302349-40

Title	
OVERALL EROSION AND SEDIMENT CONTROL PLAN	
Sheet No.	
C4.00	

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EROSION AND SEDIMENT CONTROL PLAN LEGEND



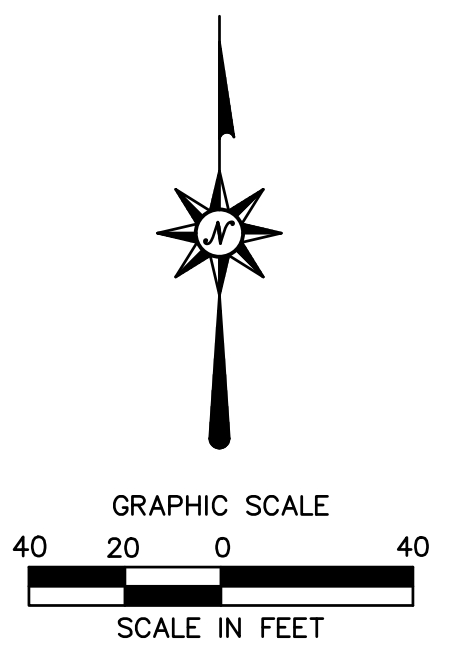
SOIL TYPE

17	TIMAKWA AND NATCHAUG SOILS, 0 TO 2 PERCENT SLOPES (HSG B/D)
29A	AGAWAM FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES (HSG B)
29B	AGAWAM FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES (HSG B)
34B	MERRIMAC FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES (HSG A)
38C	HINCKLEY LOAMY SAND, 3 TO 15 PERCENT SLOPES (HSG A)

± 184,14C
 (310' x 594'
 LIGHT MANUFACT'
 FACILITY
 (1 OFFICE ±5,40
 369 CAR PAR'
 27 LOADING D
 30 TRAILER PA

MATCHLINE SEE SHEET C4.02

**FOR PERMITTING PURPOSES ONLY
 NOT RELEASED FOR CONSTRUCTION**



PROPOSED LIGHT MANUFACTURING
 296 FLANDERS ROAD
 EAST LYME, CONNECTICUT

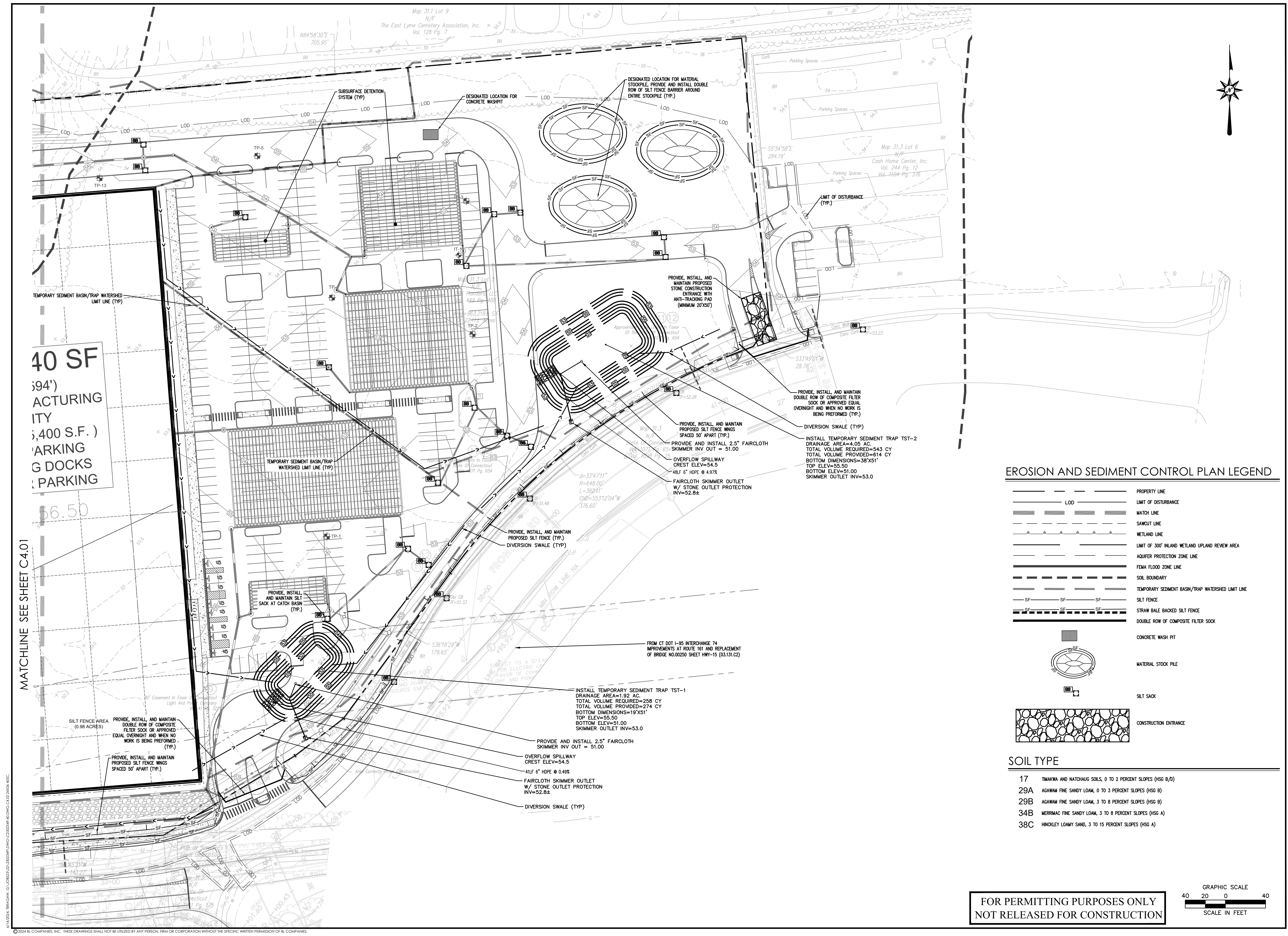
DESIGNED	J.P.D.
DRAWN	T.L.B.
REVIEWED	R.M.R.
SCALE	1"=40'
PROJECT NO.	2302349
DATE	06/17/2024
CAD FILE	C2302349-40

EROSION AND SEDIMENT CONTROL PLAN

Sheet No.

C4.01

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40 SF
 (94')
 ACTURING
 ITY
 (4,400 S.F.)
 'ARKING
 G DOCKS
 'PARKING

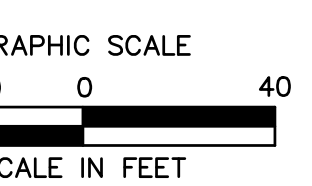
MATCHLINE SEE SHEET C4.01

EROSION AND SEDIMENT CONTROL PLAN LEGEND

	PROPERTY LINE
	LIMIT OF DISTURBANCE
	MATCH LINE
	SAWCUT LINE
	WETLAND LINE
	LIMIT OF 300' INLAND WETLAND UPLAND REVIEW AREA
	AQUIFER PROTECTION ZONE LINE
	FEMA FLOOD ZONE LINE
	SOIL BOUNDARY
	TEMPORARY SEDIMENT BASIN/TRAP WATERSHED LIMIT LINE
	SILT FENCE
	STRAW BALE BACKED SILT FENCE
	DOUBLE ROW OF COMPOSITE FILTER SOCK
	CONCRETE WASH PIT
	MATERIAL STOCK PILE
	SILT SACK
	CONSTRUCTION ENTRANCE

SOIL TYPE

- 17 TIMAKWA AND NATCHAUG SOILS, 0 TO 2 PERCENT SLOPES (HSG B/D)
- 29A AGAWAM FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES (HSG B)
- 29B AGAWAM FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES (HSG B)
- 34B MERRIMAC FINE SANDY LOAM, 3 TO 8 PERCENT SLOPES (HSG A)
- 38C HINCKLEY LOAMY SAND, 3 TO 15 PERCENT SLOPES (HSG A)



**FOR PERMITTING PURPOSES ONLY
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PROPOSED LIGHT MANUFACTURING
 296 FLANDERS ROAD
 EAST LYME, CONNECTICUT

DESIGNED	J.P.D.
DRAWN	T.L.B.
REVIEWED	R.M.R.
SCALE	1"=40'
PROJECT NO.	2302349
DATE	06/17/2024
CAD FILE	C2302349-40
TITLE	EROSION AND SEDIMENT CONTROL PLAN
SHEET NO.	C4.02

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SEDIMENT AND EROSION CONTROL NOTES

SEDIMENT AND EROSION CONTROL NOTES – CONNECTICUT

SEDIMENT & EROSION CONTROL NARRATIVE

THE SEDIMENT AND EROSION CONTROL PLAN WAS DEVELOPED TO PROTECT THE EXISTING ROADWAY AND STORM DRAINAGE SYSTEMS, ADJACENT PROPERTIES, AND ANY ADJACENT WETLAND AREA AND ANY ADJACENT WATER COURSE FROM SEDIMENT LADEN SURFACE RUNOFF AND EROSION. A CONSTRUCTION SEQUENCE IS PROVIDED TO PREVENT SURFACE RUNOFF EROSION CONTROLS PRIOR TO THE BEGINNING OF PROJECT DEMOLITION AND/OR CONSTRUCTION.

CONSTRUCTION SCHEDULE

THE ANTICIPATED STARTING DATE FOR CONSTRUCTION IS SPRING 2025 WITH COMPLETION ANTICIPATED FALL 2026. APPROPRIATE SEDIMENT AND EROSION CONTROL MEASURES AS DESCRIBED HEREIN SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ALL DEMOLITION OR CONSTRUCTION ACTIVITY. SCHEDULE WORK TO MINIMIZE THE LENGTH OF TIME THAT BARE SOIL WILL BE EXPOSED.

CONTINGENCY EROSION PLAN

THE CONTRACTOR SHALL INSTALL ALL SPECIFIED SEDIMENT AND EROSION CONTROL MEASURES AND WILL BE REQUIRED TO MAINTAIN THEM IN THEIR INTENDED FUNCTIONING CONDITION. THE AGENTS OF THE MUNICIPALITY INLAND WETLANDS & WATERCOURSES COMMISSION AND/OR CIVIL ENGINEER SHALL HAVE THE AUTHORITY TO REQUIRE SUPPLEMENTAL MAINTENANCE OR ADDITIONAL MEASURES IF FIELD CONDITIONS ARE ENCOUNTERED BEYOND WHAT WOULD NORMALLY BE ANTICIPATED.

CONSTRUCTION SEQUENCE

THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED:

- CONTACT MUNICIPALITY INLAND WETLANDS & WATERCOURSES COMMISSION AGENT AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION, CONSTRUCTION OR REGULATED ACTIVITY ON THIS PROJECT.
- CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD AND APPROVED BY THE MUNICIPALITY INLAND WETLANDS & WATERCOURSES COMMISSION AGENT PRIOR TO THE START OF WORK ON THE SITE. INSTALL TREE PROTECTION AND PERIMETER SILT FENCE.
- CONSTRUCT STONE CONSTRUCTION ENTRANCE ANTI-TRACKING PADS AT CONSTRUCTION ENTRANCES/EXITS AND INSTALL FILTER FABRIC AROUND GRATES OF CATCH BASINS OR INSTALL SILT SACKS ON CATCH BASIN INLETS ON OFF SITE ROADS. INSTALL SILT FENCE AND OTHER EROSION CONTROL DEVICES INDICATED ON THESE PLANS AT PERIMETER OF PROPOSED SITE DISTURBANCE AND INSTALL ALL EROSION CONTROL MEASURES AND TREE PROTECTION INDICATED ON THESE PLANS. INSTALL SEDIMENT BASINS AND SEDIMENT TRAPS IF REQUIRED AT LOW AREAS OF SITE OR AS ORDERED BY THE ENGINEER OR AS SHOWN ON THESE PLANS.
- CLEAR AND GRUB SITE. STOCKPILE CHPS, STOCKPILE TOPSOIL. INSTALL SEDIMENT AND EROSION CONTROLS AT STOCKPILES.
- BUILDING AND SITE DEMOLITION AND REMOVAL. PAVEMENT REMOVAL.
- INSTALL SILT FENCE, CONSTRUCT DIVERSION SWALES AND SEDIMENT BASINS AND SEDIMENT TRAPS, COMMENCE INSTALLATION OF STORM DRAINAGE SYSTEM.
- COMMENCE EARTHWORK. CONSTRUCT FILL SLOPE, ROADWAY AND RETAINING WALLS. INSTALL ADDITIONAL SEDIMENT AND EROSION CONTROLS AS WORK PROGRESSES AND CONTINUE STORM DRAINAGE SYSTEM CONSTRUCTION, TOPSOIL AND SEED SLOPES WHICH HAVE ACHIEVED FINAL SITE GRADING.
- CONSTRUCTION STAKING OF ALL BUILDING CORNERS, UTILITIES, ACCESS DRIVES, AND PARKING AREAS.
- ROUGH GRADING AND FILLING OF SUBGRADES AND SLOPES.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
- BEFORE DISPOSING OF SOIL OR RECEIVING BORROW FOR THE SITE, THE CONTRACTOR MUST PROVIDE EVIDENCE THAT EACH SPILL OR BORROW AREA HAS A SEDIMENT AND EROSION CONTROL PLAN APPROVED BY THE MUNICIPALITY INLAND WETLANDS & WATERCOURSES COMMISSION AND WHICH IS BEING IMPLEMENTED AND MAINTAINED. THE CONTRACTOR SHALL ALSO NOTIFY THE MUNICIPALITY INLAND WETLANDS & WATERCOURSES COMMISSION IN WRITING OF ALL RECEIVING SPILL AND BORROW AREAS WHEN THEY HAVE BEEN IDENTIFIED.
- CONTINUE INSTALLATION OF STORM DRAINAGE AS SUBGRADE ELEVATIONS ARE ACHIEVED.
- BUILDING FOUNDATION SUBGRADE AND PAD SUBGRADE PREPARATION.
- BUILDING FOUNDATION CONSTRUCTION. BEGIN BUILDING SUPERSTRUCTURE.
- THROUGHOUT CONSTRUCTION SEQUENCE, REMOVE SEDIMENT FROM BEHIND SILT FENCES, HAY BALES AND OTHER EROSION CONTROL DEVICES, AND FROM SEDIMENT BASINS AND SEDIMENT TRAPS AS REQUIRED. REMOVAL SHALL BE ON A PERIODIC BASIS (EVERY SIGNIFICANT RAINFALL OF 0.25 INCH OR GREATER). INSPECTION OF SEDIMENT AND EROSION CONTROL MEASURES SHALL BE ON A WEEKLY BASIS AND AFTER EACH RAINFALL OF 0.25 INCHES OR GREATER. SEDIMENT COLLECTED SHALL BE DEPOSITED AND SPREAD EVENLY UPLAND ON SLOPES DURING CONSTRUCTION.
- INSTALL SANITARY LATERAL AND UTILITIES. COMPLETE STORM DRAINAGE SYSTEM.
- INSTALL SITE LIGHTING AND TRASH ENCLOSURE.
- COMPLETE GRADING TO SUBGRADES AND CONSTRUCT PARKING AREA SUBGRADE.
- CONSTRUCT CURBS, PAVEMENT STRUCTURE AND SIDEWALKS.
- CONDUCT FINE GRADING.
- CONSTRUCT OFF SITE ROADWAY AND SIGNAL IMPROVEMENTS.
- PAVING OF PARKING AREAS AND DRIVEWAYS.
- FINAL FINE GRADING OF SLOPE AND NON-PAVED AREAS.
- PLACE 4" TOPSOIL ON SLOPES AFTER FINAL GRADING IS COMPLETED. FERTILIZE SEED AND MULCH. SEED MIXTURE TO BE INSTALLED APRIL 15 – JUNE 1 OR AUGUST 15 – OCTOBER 1. USE EROSION CONTROL BLANKETS AS REQUIRED OR ORDERED FOR SLOPES GREATER THAN 3:1 AND AS SHOWN ON LANDSCAPE PLANS OR EROSION CONTROL PLANS. FOR TEMPORARY STABILIZATION BEYOND SEEDING DATES USE ANNUAL RYE AT 4.0 LBS./1,000 S.F. FERTILIZE WITH 10-10-10 AT 1.0 LBS. OF NITROGEN PER 1,000 S.F. AND LIME AT 100 LBS./1,000 S.F. (MAX.).
- LANDSCAPE ISLANDS, INTERIOR NON-PAVED AREAS, AND PERIMETER AREAS.
- INSTALL SIGNING AND PAVEMENT MARKINGS.
- CLEAN STORM DRAINAGE PIPE STRUCTURES, DETENTION SYSTEMS AND WATER QUALITY DEVICES OF DEBRIS AND SEDIMENT.
- UPON DIRECTION OF THE MUNICIPALITY INLAND WETLANDS & WATERCOURSES COMMISSION AGENT, SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED FOLLOWING STABILIZATION OF THE SITE.

OPERATION REQUIREMENTS

CLEARING AND GRUBBING OPERATIONS

- ALL SEDIMENT AND EROSION CONTROL MEASURES, INCLUDING THE CONSTRUCTION OF TEMPORARY SEDIMENTATION BASINS AND STONE CONSTRUCTION ENTRANCE ANTI-TRACKING PADS, WILL BE INSTALLED PRIOR TO THE START OF CLEARING AND GRUBBING AND DEMOLITION OPERATIONS.
- FOLLOWING INSTALLATION OF ALL SEDIMENT AND EROSION CONTROL MEASURES, THE CONTRACTOR SHALL NOT PROCEED WITH GRADING, FILLING OR OTHER CONSTRUCTION OPERATIONS UNTIL THE ENGINEER HAS INSPECTED AND APPROVED ALL INSTALLATIONS.
- THE CONTRACTOR SHALL TAKE EXTREME CARE DURING CLEARING AND GRUBBING OPERATIONS SO AS NOT TO DISTURB UNPROTECTED WETLAND AREAS OR SEDIMENT AND EROSION CONTROL DEVICES.
- FOLLOWING THE COMPLETION OF CLEARING AND GRUBBING OPERATIONS, ALL AREAS SHALL BE STABILIZED WITH TOPSOIL AND SEEDING OR CRUSHED STONE AS SOON AS PRACTICAL.

ROUGH GRADING OPERATIONS

- DURING THE REMOVAL AND/OR PLACEMENT OF EARTH AS INDICATED ON THE GRADING PLAN, TOPSOIL SHALL BE STRIPPED AND APPROPRIATELY STOCKPILED FOR REUSE.
- ALL STOCKPILED TOPSOIL SHALL BE SEEDDED, MULCHED WITH HAY, AND ENCLOSED BY A SILTATION FENCE.

FILLING OPERATIONS

- PRIOR TO FILLING, ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE PROPERLY IMPLEMENTED, MAINTAINED AND FULLY INSTALLED, AS DIRECTED BY THE ENGINEER AND AS SHOWN ON THIS PLAN.
- ALL FILL MATERIAL ADJACENT TO ANY WETLAND AREAS, IF APPLICABLE TO THIS PROJECT, SHALL BE GOOD QUALITY, WITH LESS THAN 5% FINES PASSING THROUGH A #200 SIEVE (BANK RUN), SHALL BE PLACED IN LIFT THICKNESSES NOT GREATER THAN THAT SPECIFIED IN PROJECT SPECIFICATIONS AND/OR THE PROJECT GEOTECHNICAL REPORT. LIFTS SHALL BE COMPACTED TO 95% MAX. DRY DENSITY MODIFIED PROCTOR OR AS SPECIFIED IN THE CONTRACT SPECIFICATIONS OR IN THE GEOTECHNICAL REPORT.
- AS GENERAL GRADING OPERATIONS PROGRESS, ANY TEMPORARY DIVERSION DITCHES SHALL BE RAISED OR LOWERED, AS NECESSARY, TO DIVERT SURFACE RUNOFF TO THE SEDIMENT BASINS OR SEDIMENT TRAPS.

PLACEMENT OF DRAINAGE STRUCTURES, UTILITIES, AND BUILDING CONSTRUCTION OPERATIONS.

- SILT FENCES SHALL BE INSTALLED AT THE DOWNHILL SIDES OF BUILDING EXCAVATIONS, MUD PUMP DISCHARGES, AND UTILITY TRENCH MATERIAL STOCKPILES. HAY BALES/STRAW BALES MAY BE USED IF SHOWN ON THE SEDIMENT AND EROSION CONTROL PLANS OR IF DIRECTED BY THE CIVIL ENGINEER.

FINAL GRADING AND PAVING OPERATIONS

- ALL INLET AND OUTLET PROTECTION SHALL BE PLACED AND MAINTAINED AS SHOWN ON SEDIMENT AND EROSION CONTROL PLANS AND DETAILS, AND AS DESCRIBED IN SPECIFICATIONS AND AS DESCRIBED HEREIN.
- NO CUT OR FILL SLOPES SHALL EXCEED 2:1 EXCEPT WHERE STABILIZED BY ROCK FACED EMBANKMENTS OR EROSION CONTROL BLANKETS, OR JUTE MESH AND VEGETATION. ALL SLOPES SHALL BE SEEDDED, AND ANY ROAD OR DRIVEWAY SHOULDER AND BANKS SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF FINAL GRADING UNTIL TURF IS ESTABLISHED.
- PAVEMENT SUB-BASE AND BASE COURSES SHALL BE INSTALLED OVER AREAS TO BE PAVED AS SOON AS FINAL SUB-GRADES ARE ESTABLISHED AND UNDERGROUND UTILITIES AND STORM DRAINAGE SYSTEMS HAVE BEEN INSTALLED.
- AFTER CONSTRUCTION OF PAVEMENT, TOPSOIL, FINAL SEED, MULCH AND LANDSCAPING, REMOVE ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES ONLY AFTER ALL AREAS HAVE BEEN PAVED AND/OR GRASS HAS BEEN WELL ESTABLISHED AND THE SITE IS STABLE AND HAS BEEN INSPECTED AND APPROVED BY THE MUNICIPALITY INLAND WETLANDS & WATERCOURSES COMMISSION.

INSTALLATION OF SEDIMENTATION AND EROSION CONTROL MEASURES

- SILTATION FENCE
 - DIG A SIX INCH TRENCH ON THE UPHILL SIDE OF THE DESIGNATED FENCE LINE LOCATION.
 - POSITION THE POST AT THE BACK OF THE TRENCH (DOWNHILL SIDE), AND HAMMER THE POST AT LEAST 1.5 FEET INTO THE GROUND.
 - LAY THE BOTTOM SIX INCHES OF THE FABRIC INTO THE TRENCH TO PREVENT UNDERMINING BY STORM WATER RUN-OFF.
 - BACKFILL THE TRENCH AND COMPACT.

- HAY BALES/STRAW BALES
 - BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE, ORIENTED PARALLEL TO THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.
 - BALES SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED THE WIDTH OF A BALE AND THE LENGTH OF THE PROPOSED BARRIER TO A MINIMUM DEPTH OF FOUR INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AGAINST THE BARRIER.
 - EACH BALE SHALL BE SECURELY ANCHORED BY AT LEAST TWO (2) STAKES.
 - THE GAPS BETWEEN BALES SHALL BE WEDGED WITH STRAW TO PREVENT WATER LEAKAGE.
 - THE BARRIER SHALL BE EXTENDED TO SUCH A LENGTH THAT THE BOTTOMS OF THE END BALES ARE HIGHER IN ELEVATION THAN THE TOP OF THE LOWEST MIDDLE BALE, TO ENSURE THAT RUN-OFF WILL FLOW EITHER THROUGH OR OVER THE BARRIER, BUT NOT AROUND IT.

OPERATION AND MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES

- SILTATION FENCE
 - ALL SILTATION FENCES SHALL BE INSPECTED AS A MINIMUM WEEKLY OR AFTER EACH RAINFALL. ALL DETERIORATED FABRIC AND DAMAGED POSTS SHALL BE REPLACED AND PROPERLY REPOSITIONED IN ACCORDANCE WITH THIS PLAN.
 - SEDIMENT DEPOSITS SHALL BE REMOVED FROM BEHIND THE FENCE WHEN THEY REACH A MAXIMUM HEIGHT OF ONE FOOT.
- HAY BALES/STRAW BALES
 - ALL HAY BALE/STRAW BALE RINGS SHALL BE INSPECTED FOLLOWING EACH RAINFALL. REPAIR OR REPLACEMENT SHALL BE PROMPTLY MADE AS NEEDED.
 - DEPOSITS SHALL BE REMOVED AND CLEANED-OUT IF ONE HALF OF THE ORIGINAL HEIGHT OF THE BALES BECOMES FILLED WITH SEDIMENT.
- SEDIMENT BASINS/SEDIMENT TRAPS
 - CONTRACTOR TO KEEP WEEKLY CHECKLIST LOGS FOR INSPECTIONS OF ALL SEDIMENT AND EROSION CONTROL DEVICES AND HAVE THEM READILY AVAILABLE ON-SITE AT ALL TIMES FOR INSPECTION BY CT DEEP, LOCAL AUTHORITIES OR ENGINEER.
 - ALL SEDIMENT BASINS AND/OR SEDIMENT TRAPS SHALL BE INSPECTED FOLLOWING EACH RAINFALL. REPAIR OF SLOPES SHALL BE PROMPTLY MADE AS NEEDED.
 - SEDIMENT DEPOSITS SHALL BE REMOVED FROM SEDIMENT BASINS AND/OR SEDIMENT TRAPS WHEN THEY REACH A MAXIMUM HEIGHT OF ONE FOOT UNLESS OTHERWISE INDICATED ON THE EROSION CONTROL PLANS AND DETAILS TO BE AT A SPECIFIC ELEVATION PER CLEAN OUT MARKERS.
 - SEDIMENT SHALL BE DISPOSED OF ON-SITE OR AS DIRECTED BY THE ENGINEER AND LOCAL GOVERNING OFFICIALS. SEE SEDIMENT AND EROSION CONTROL NOTES HEREIN REGARDING DISPOSAL REQUIREMENTS FOR OFF SITE SPOIL DISPOSAL.

SEDIMENT AND EROSION CONTROL PLAN

- HAY BALE/STRAW BALE FILTERS WILL BE INSTALLED AT ALL CULVERT OUTLETS IF CULVERT OUTLETS ARE APPLICABLE TO THIS PROJECT AND SILTATION FENCE INSTALLED ALONG THE TOE OF ALL CRITICAL CUT AND FILL SLOPES.
- CULVERT DISCHARGE AREAS WILL BE PROTECTED WITH RIP RAP CHANNELS. ENERGY DISSIPATORS WILL BE INSTALLED AS SHOWN ON THESE PLANS AND AS NECESSARY.
- CATCH BASINS WILL BE PROTECTED WITH HAY BALE/STRAW BALE FILTERS, SILT SACKS, SILTATION FENCE, OR OTHER INLET PROTECTION DEVICES PER DETAILS, THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED.
- ALL SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE 2023 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION.
- SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSTALLED PRIOR TO DEMOLITION AND/OR CONSTRUCTION WHENEVER POSSIBLE.
- ALL CONTROL MEASURES WILL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE DEMOLITION AND CONSTRUCTION PERIOD UNTIL THE SITE IS DETERMINED TO BE STABILIZED BY THE AUTHORITY HAVING JURISDICTION.
- ADDITIONAL CONTROL MEASURES WILL BE INSTALLED DURING THE CONSTRUCTION PERIOD, IF NECESSARY OR REQUIRED OR AS DIRECTED BY THE CIVIL ENGINEER OR BY THE AUTHORITY HAVING JURISDICTION.
- SEDIMENT REMOVED FROM EROSION CONTROL STRUCTURES WILL BE DISPOSED IN A MANNER WHICH IS CONSISTENT WITH THE INTENT AND REQUIREMENTS OF THE SEDIMENT AND EROSION CONTROL PLANS, NOTES, AND DETAILS.
- OWNER'S CONSTRUCTION REPRESENTATIVE IS ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS SEDIMENT AND EROSION CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, NOTIFICATION OF THE MUNICIPALITY INLAND WETLANDS & WATERCOURSES COMMISSION OFFICE OR AUTHORITY HAVING JURISDICTION OF ANY TRANSFER OF THIS RESPONSIBILITY AND FOR CONVEYING A COPY OF THE SEDIMENT AND EROSION CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.

SEDIMENT AND EROSION CONTROL NOTES

- THE SEDIMENT AND EROSION CONTROL PLAN IS ONLY INTENDED TO DESCRIBE THE SEDIMENT AND EROSION CONTROL TREATMENT FOR THIS SITE. SEE SEDIMENT AND EROSION CONTROL DETAILS AND CONSTRUCTION SEQUENCE. REFER TO SITE PLAN FOR GENERAL INFORMATION AND OTHER CONTRACT PLANS FOR APPROPRIATE INFORMATION.
- OWNER'S CONSTRUCTION REPRESENTATIVE IS RESPONSIBLE FOR IMPLEMENTING THIS SEDIMENT AND EROSION CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE PROPER INSTALLATION AND MAINTENANCE OF SEDIMENT AND EROSION CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED WITH CONSTRUCTION ON THE SITE OF THE REQUIREMENTS AND OBJECTIVES OF THIS PLAN, INFORMING THE AUTHORITY HAVING JURISDICTION OR COUNTY SOILS CONSERVATION DISTRICT OR INLAND WETLANDS AGENCY OF ANY TRANSFER OF THIS RESPONSIBILITY, AND FOR CONVEYING A COPY OF THE SEDIMENT & EROSION CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.
- AN EROSION CONTROL BOND MAY BE REQUIRED TO BE POSTED WITH MUNICIPALITY INLAND WETLAND & WATERCOURSES AGENCY TO ENSURE IMPLEMENTATION OF THE SEDIMENT AND EROSION CONTROL MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE POSTING OF THIS BOND AND FOR INQUIRIES TO THE MUNICIPALITY FOR INFORMATION ON THE METHOD, TYPE AND AMOUNT OF THE BOND POSTING UNLESS OTHERWISE DIRECTED BY THE OWNER.
- VISUAL SITE INSPECTIONS SHALL BE CONDUCTED WEEKLY, AND AFTER EACH MEASURABLE PRECIPITATION EVENT OF 0.25 INCHES OR GREATER BY QUALIFIED PERSONNEL TRAINED AND EXPERIENCED IN SEDIMENT AND EROSION CONTROL, TO ASCERTAIN THAT THE SEDIMENT AND EROSION CONTROL (E&S) BMPs ARE OPERATIONAL AND EFFECTIVE IN PREVENTING POLLUTION. A WRITTEN REPORT OF EACH INSPECTION SHALL BE KEPT, AND INCLUDE:
 - A SUMMARY OF THE SITE CONDITIONS, E&S BMPs, AND COMPLIANCE; AND
 - THE DATE, TIME, AND THE NAME OF THE PERSON CONDUCTING THE INSPECTION
 - TURBIDITY TESTING AS REQUIRED BY THE GENERAL PERMIT (NPDES).
- THE CONTRACTOR SHALL CONSTRUCT ALL SEDIMENT AND EROSION CONTROLS IN ACCORDANCE WITH 2023 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL LATEST EDITION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND AS DIRECTED BY THE MUNICIPALITY INLAND WETLANDS & WATERCOURSES COMMISSION. THE CONTRACTOR SHALL KEEP A COPY OF THE GUIDELINES ON-SITE FOR REFERENCE DURING CONSTRUCTION.
- ADDITIONAL AND/OR ALTERNATIVE SEDIMENT AND EROSION CONTROL MEASURES MAY BE INSTALLED DURING THE CONSTRUCTION PERIOD IF FOUND NECESSARY BY THE CONTRACTOR, OWNER, SITE ENGINEER, MUNICIPALITY INLAND WETLANDS & WATERCOURSES COMMISSION, OR GOVERNING AGENCIES. THE CONTRACTOR SHALL CONTACT THE OWNER AND APPROPRIATE GOVERNING AGENCIES FOR APPROVAL. IF ALTERNATIVE CONTROLS OTHER THAN THOSE SHOWN ON THE PLANS ARE PROPOSED.
- THE CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROLS BEFORE AND AFTER EACH STORM (0.25 INCHES OR GREATER RAINFALL), OR AT LEAST WEEKLY, TO VERIFY THAT THE CONTROLS ARE OPERATING PROPERLY AND MAKE REPAIRS WHERE NECESSARY.
- THE CONTRACTOR SHALL KEEP A SUPPLY OF SEDIMENT AND EROSION CONTROL MATERIAL (HAY BALES, SILT FENCE, JUTE MESH, RIP RAP, ETC.) ON-SITE FOR MAINTENANCE AND EMERGENCY REPAIRS.
- PROTECT EXISTING TREES THAT ARE TO BE SAVED BY FENCING AT THE DRIP LINE OR AS SHOWN WITH SNOW FENCE, ORANGE SAFETY FENCE, OR EQUIVALENT FENCING. ANY LIMB TRIMMING SHOULD BE DONE BEFORE CONSTRUCTION BEGINS IN THAT AREA; FENCING SHALL BE MAINTAINED AND REPAIRED DURING CONSTRUCTION.
- INSTALL PERIMETER SEDIMENT AND EROSION CONTROLS PRIOR TO CLEARING OR CONSTRUCTION. ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE LIMIT OF DISTURBANCE, WHICH SHALL BE MARKED WITH SILT FENCE, SAFETY FENCE, HAY BALES, RIBBONS, OR OTHER MEANS PRIOR TO CLEARING. CONSTRUCTION ACTIVITY SHALL REMAIN ON THE UPHILL SIDE OF THE SILT FENCE UNLESS WORK IS SPECIFICALLY CALLED FOR ON THE DOWNHILL SIDE OF THE FENCE.
- STONE CONSTRUCTION ENTRANCE ANTI-TRACKING PADS SHALL BE INSTALLED AT START OF CONSTRUCTION AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION. THE LOCATION OF THE TRACKING PADS MAY CHANGE AS VARIOUS PHASES OF CONSTRUCTION ARE COMPLETED.
- TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE IN FINAL LANDSCAPING. ALL EARTH STOCKPILES SHALL HAVE HAY BALES OR SILT FENCE AROUND THE LIMIT OF PILE. PILES SHALL BE TEMPORARILY SEEDDED IF PILE IS TO REMAIN IN PLACE FOR MORE THAN ONE (1) MONTH.
- SEDIMENT BASINS AND SEDIMENT TRAPS SHALL PROVIDE 134 CUBIC YARDS OF SEDIMENT STORAGE PER ACRE CONTRIBUTING TO THE BASIN. PROVIDE BASIN VOLUMES FOR ALL DISTURBANCE ON SITE.
- COMPLY WITH REQUIREMENTS OF CGS SECTION 22A 430B, FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES AND WITH CT DEEP RECORD KEEPING AND INSPECTION REQUIREMENTS.
- STONE CONSTRUCTION ENTRANCE ANTI-TRACKING PADS SHALL BE INSTALLED PRIOR TO ANY ON SITE EXCAVATION AND SHALL BE MAINTAINED DURING ALL DEMOLITION, EXCAVATION AND CONSTRUCTION ACTIVITIES.
- MINIMIZE LAND DISTURBANCES. SEED AND MULCH DISTURBED AREAS WITH TEMPORARY MIX AS SOON AS PRACTICABLE (ONE WEEK MAXIMUM UNSTABILIZED PERIOD) USING PERENNIAL RYEGRASS AT 40 LBS PER ACRE, MULCH ALL CUT AND FILL SLOPES AND SWALES WITH LOOSE HAY AT A RATE OF 2 TONS PER ACRE. IF NECESSARY, REPLACE LOOSE HAY ON SLOPES WITH EROSION CONTROL BLANKETS OR JUTE CLOTH. MODERATELY GRADED AREAS, ISLANDS, AND TEMPORARY CONSTRUCTION STAGING AREAS MAY BE HYDROSEEDDED WITH TACKIFIER.
- MAINTAIN EXISTING PAVED AREAS FOR CONSTRUCTION STAGING FOR AS LONG AS POSSIBLE.
- SILT FENCE AND OTHER SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH CONTRACT DRAWINGS AND MANUFACTURER'S RECOMMENDATIONS PRIOR TO WORK IN ANY UPLAND AREAS.
- EXCAVATED MATERIAL FROM TEMPORARY SILT TRAPS MUST BE STOCKPILED ON UPHILL SIDE OF SILT FENCE.
- INSTALL SILT FENCE ACCORDING TO MANUFACTURER'S INSTRUCTION, PARTICULARLY, BURY LOWER EDGE OF FABRIC INTO GROUND. SILT FENCE SHALL BE TENCATE ENVIROFENCE, PROPEX GEOTEX OR EQUIVALENT APPROVED BY THE CIVIL ENGINEER. FILTER FABRIC USED SHALL BE TENCATE 140N OR 170N, OR APPROVED EQUIVALENT. SEE SPECIFICATIONS FOR FURTHER INFORMATION.
- WHERE INDICATED ON SEDIMENT AND EROSION CONTROL PLANS USE NEW HAY/STRAW BALES AND REPLACE THEM WHENEVER THEIR CONDITION DETERIORATES BEYOND REASONABLE USABILITY. STAKE BALES SECURELY INTO GROUND AND BUTT TIGHTLY TOGETHER TO PREVENT UNDERCUTTING AND BYPASSING.
- INSTALL TEMPORARY DIVERSION DITCHES, PLUNGE POOLS, SEDIMENT BASINS, SEDIMENT TRAPS, CONCRETE WASH PITS AND DEWATERING PITS AS SHOWN AND AS NECESSARY DURING VARIOUS PHASES OF CONSTRUCTION TO CONTROL RUNOFF UNTIL UPHILL AREAS ARE DETERMINED TO BE STABILIZED BY THE AUTHORITY HAVING JURISDICTION. LOCATION OF TEMPORARY SEDIMENT BASINS WILL REQUIRE REVIEW AND APPROVAL BY THE CIVIL ENGINEER AND AUTHORITY HAVING JURISDICTION.
- DIRECT ALL DEWATERING PUMP DISCHARGE TO A SEDIMENT CONTROL DEVICE SUCH AS TEMPORARY PITS, SEDIMENT TRAP, SEDIMENT BASINS OR GRASS FILTERS WITHIN THE APPROVED LIMIT OF DISTURBANCE. DISCHARGE TO STORM DRAINAGE SYSTEM OR SURFACE WATERS FROM SEDIMENT CONTROLS SHALL BE CLEAR.
- SWEEP AFFECTED PORTIONS OF OFF SITE ROADS ONE OR MORE TIMES A DAY (OR LESS FREQUENTLY IF TRACKING IS NOT A PROBLEM) DURING CONSTRUCTION. OTHER DUST CONTROL MEASURES TO BE USED AS NECESSARY INCLUDE WATERING DOWN DISTURBED AREAS, USING CALCIUM CHLORIDE, AND COVERING LOADS ON DUMP TRUCKS.
- PERIODICALLY CHECK ACCUMULATED SEDIMENT LEVELS IN THE SEDIMENT BASINS AND SEDIMENT TRAPS DURING CONSTRUCTION AND CLEAN ACCUMULATED SILT

WHEN NECESSARY OR WHEN ONE FOOT OF SEDIMENT HAS ACCUMULATED OR PER SPECIFIC CLEANOUT MARKER ELEVATION, CLEAN ACCUMULATED SEDIMENT FROM CATCH BASIN Sumps AS NECESSARY AND AS DIRECTED BY THE CIVIL ENGINEER OR OWNER'S CONSTRUCTION REPRESENTATIVE. REMOVE ACCUMULATED SEDIMENT FROM BEHIND HAY/STRAW BALES AND SILT FENCE WHEN LEVEL REACHES HALF THE HEIGHT OF THE BALE OR ONE FOOT AT SILT FENCE. DISPOSE OF SEDIMENT LEGALLY EITHER ON OR OFF SITE.

- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
- ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG OR EQUIVALENT SEDIMENT REMOVAL FACILITY, OVER UNDISTURBED VEGETATED AREAS.
- ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF UTILITY AND STORM PIPE TRENCHES SO AS TO ALLOW THE TRENCH TO INTERCEPT ALL SILT LADEN RUNOFF.
- CONTRACTOR SHALL ONLY EXCAVATE AS MUCH UTILITY AND STORM PIPE TRENCH WORK AS CAN BE COMPLETED, BACKFILLED AND STABILIZED IN ONE DAY SO AS TO LIMIT THE AMOUNT OF OPEN, DISTURBED TRENCHING.
- ANY STOCKPILES OF STRIPPED MATERIALS ARE TO BE PERIODICALLY SPRAYED WITH WATER OR A CRUSTING AGENT TO STABILIZE POTENTIALLY WIND-BLOWN MATERIAL. HAUL ROADS BOTH INTO AND AROUND THE SITE ARE TO BE SPRAYED AS NEEDED TO SUPPRESS DUST. TRUCKS HAULING IMPORT FILL MATERIAL ARE TO BE TARPED TO AID IN THE CONTROL OF AIRBORNE DUST. DURING HIGH WIND EVENTS (20 TO 30 MPH SUSTAINED) CONSTRUCTION ACTIVITY SHALL BE LIMITED OR CEASED IF DUST CANNOT BE CONTROLLED BY WETTING.
- AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM OF 70% UNIFORM PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING OR OTHER MOVEMENTS UNLESS OTHERWISE DETERMINED BY THE AUTHORITY HAVING JURISDICTION.
- MAINTAIN ALL PERMANENT AND TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. UPON COMPLETION OF WORK SWEEP PARKING LOT AND REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROLS WHEN AUTHORIZED BY AUTHORITY HAVING JURISDICTION. FILE NOT (NOTICE OF TERMINATION) WITH AUTHORITY HAVING JURISDICTION RESPONSIBLE FOR REGULATING STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES PER NPDES.



100 Constitution Plaza
10th Floor
Hartford, CT 06103
(860) 249-2200



PROPOSED LIGHT MANUFACTURING
296 FLANDERS ROAD
EAST LYME, CONNECTICUT

Desc.

REV/ISSN

No.

Date

Designed

Drawn

Reviewed

Scale

Project No.

Date

CAD File:

C2302349-410

Title

Sheet No.

EROSION AND

SEDIMENT

CONTROL NOTES

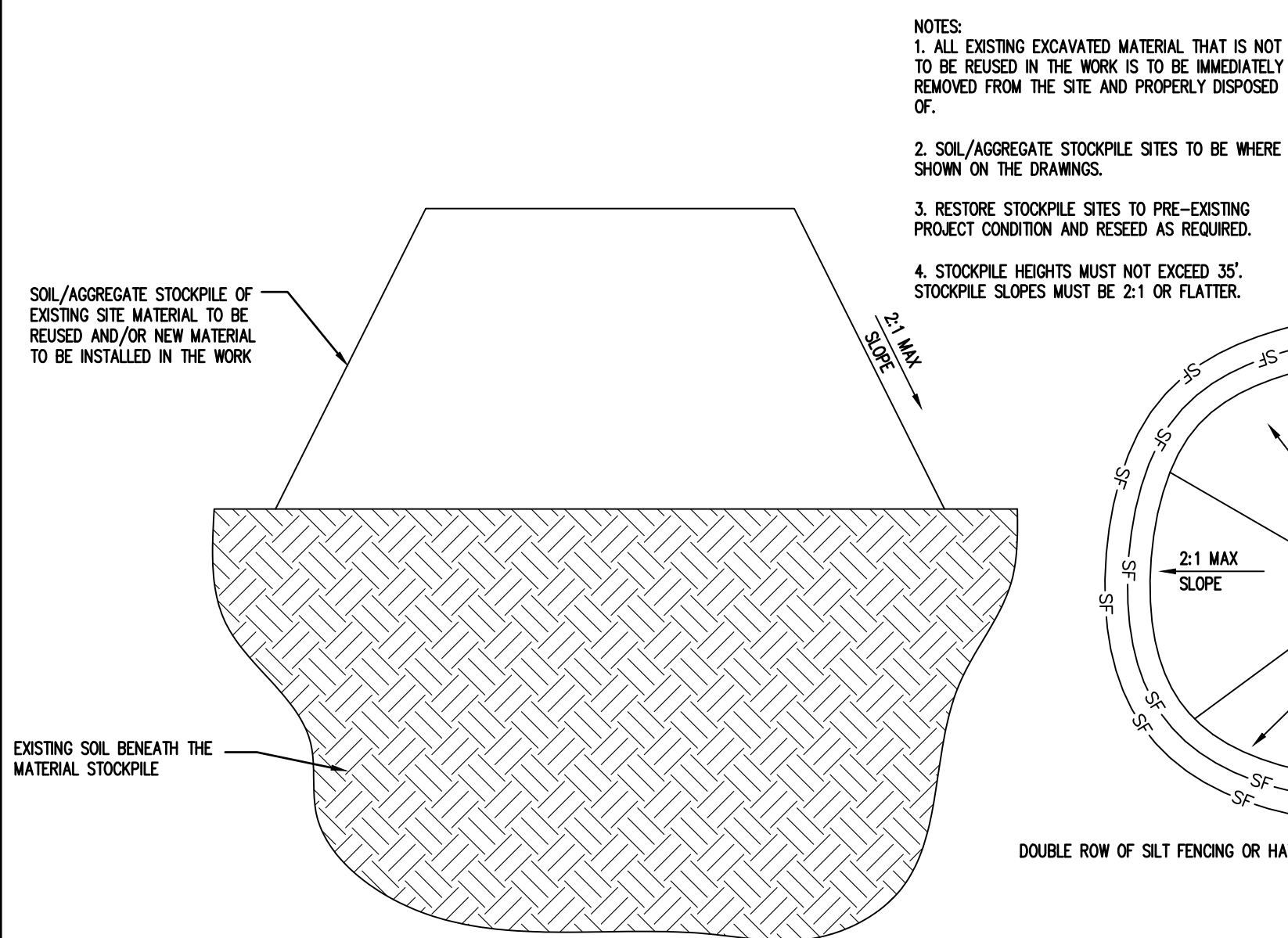
FOR PERMITTING PURPOSES ONLY
NOT RELEASED FOR CONSTRUCTION

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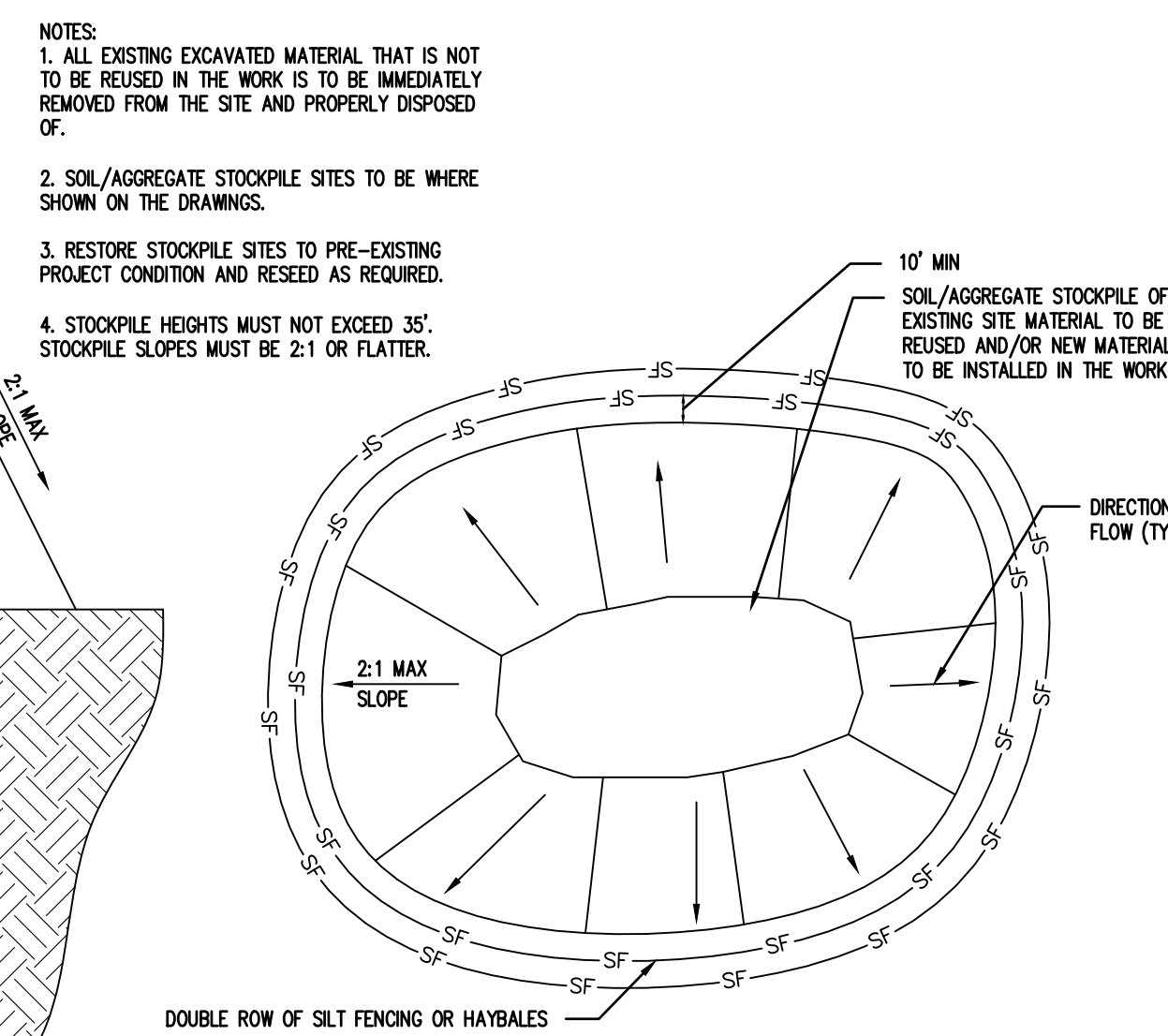
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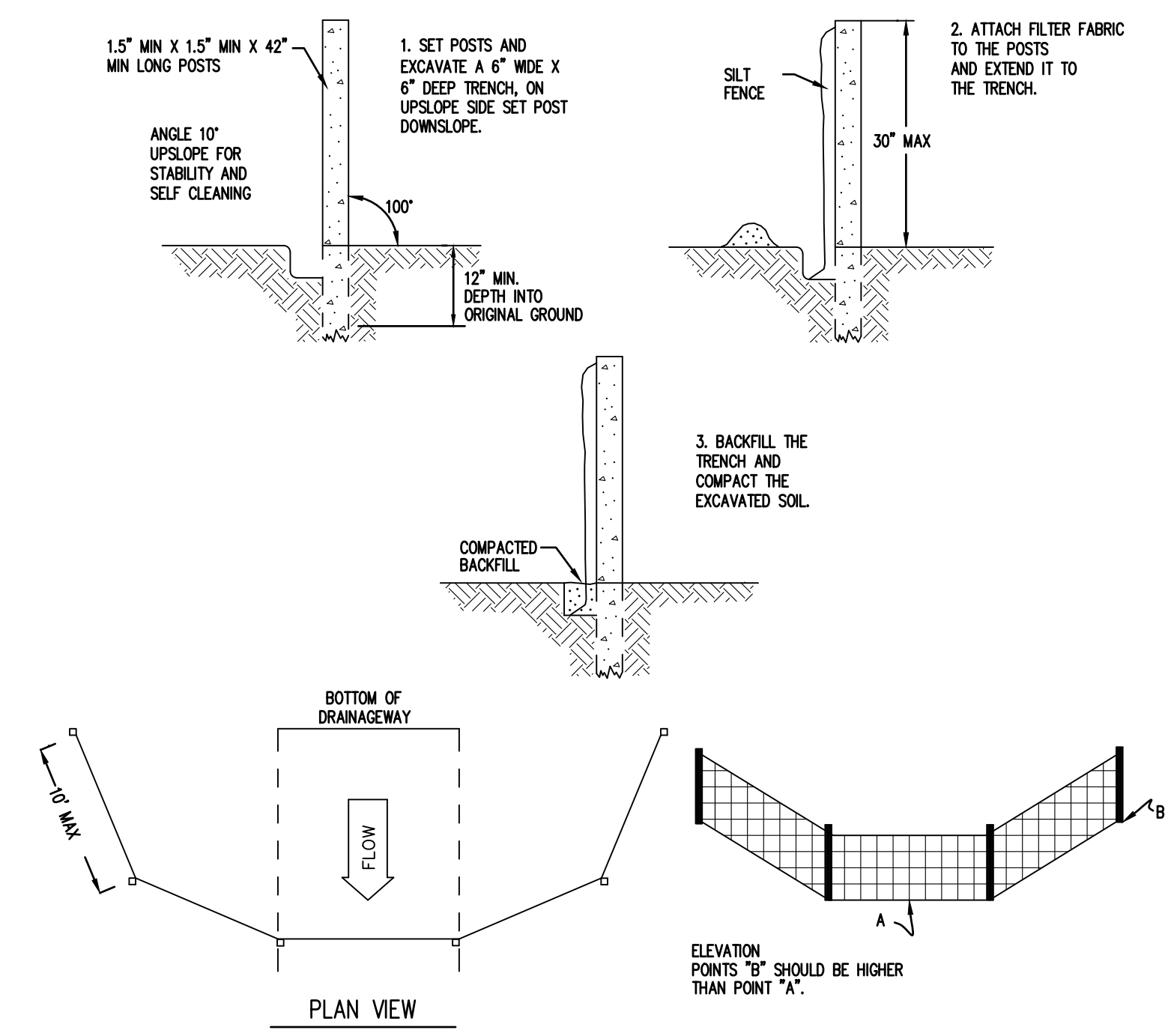
MATERIALS STOCKPILE DETAIL

N.T.S.



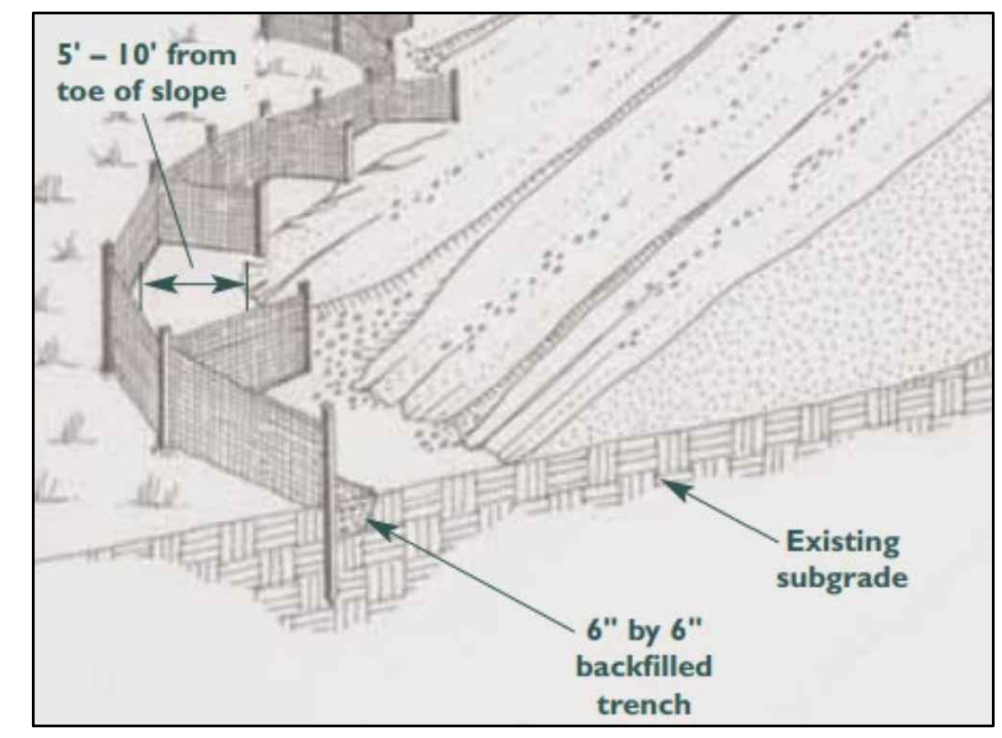
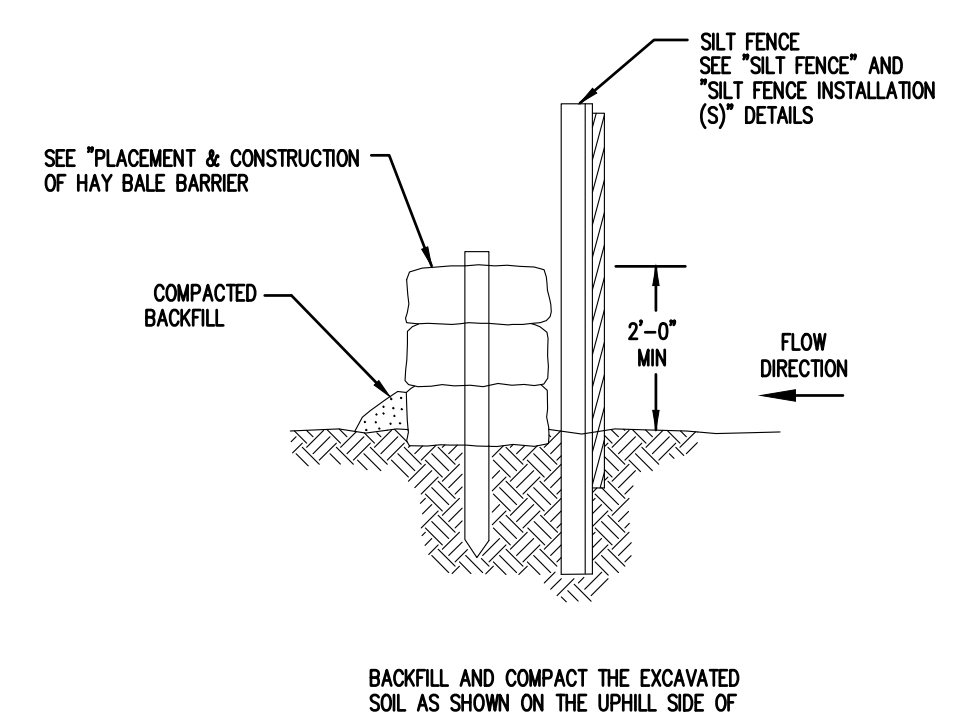
SILT FENCE BARRIER DETAIL

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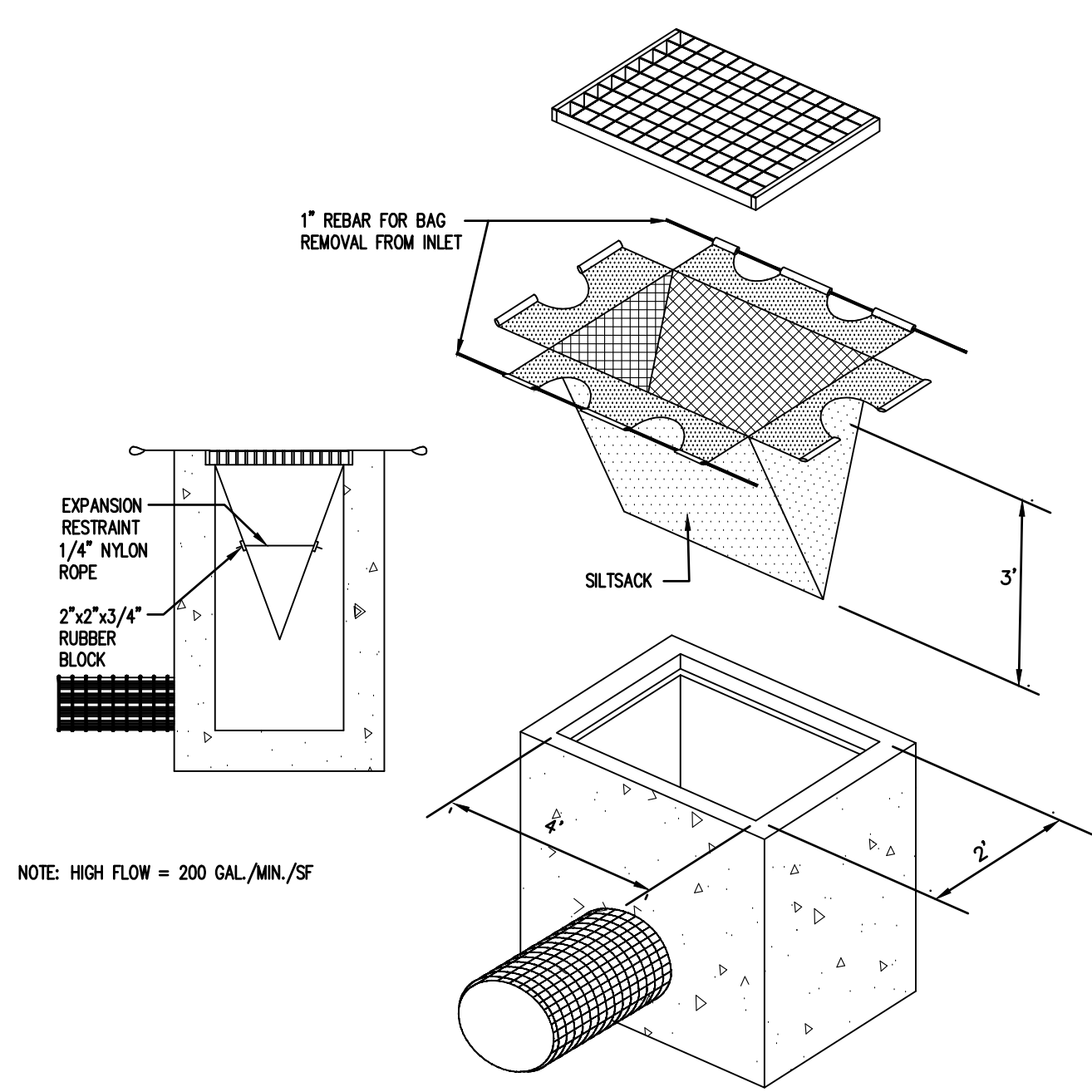
STRAW BALE BACKED SILT FENCE BARRIER DETAIL

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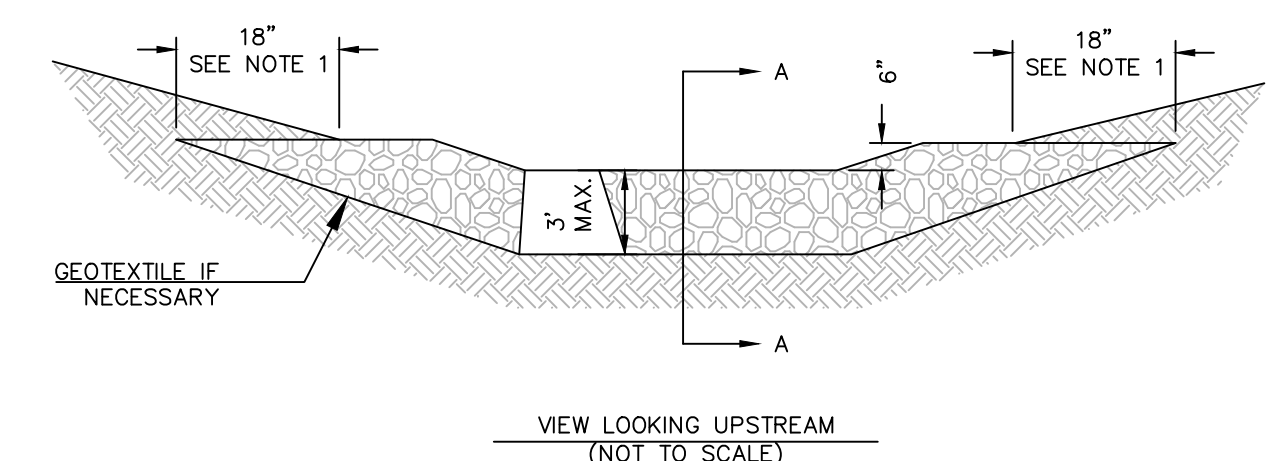
SILT FENCE WINGS

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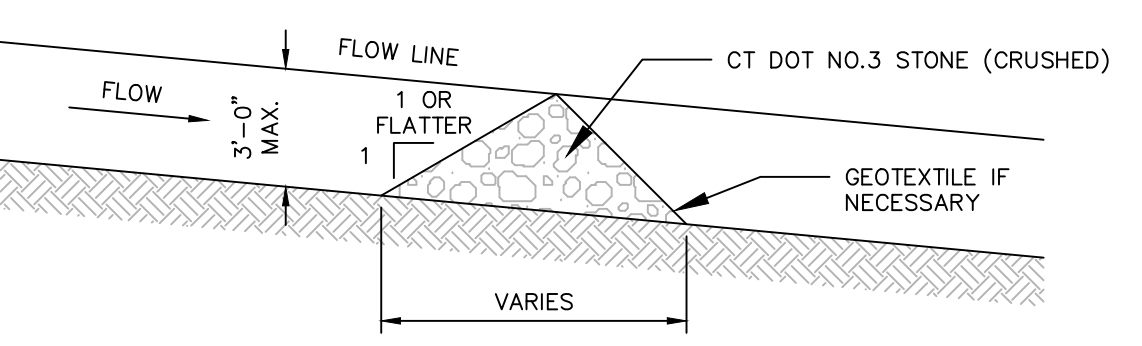


SILTSACK DETAIL

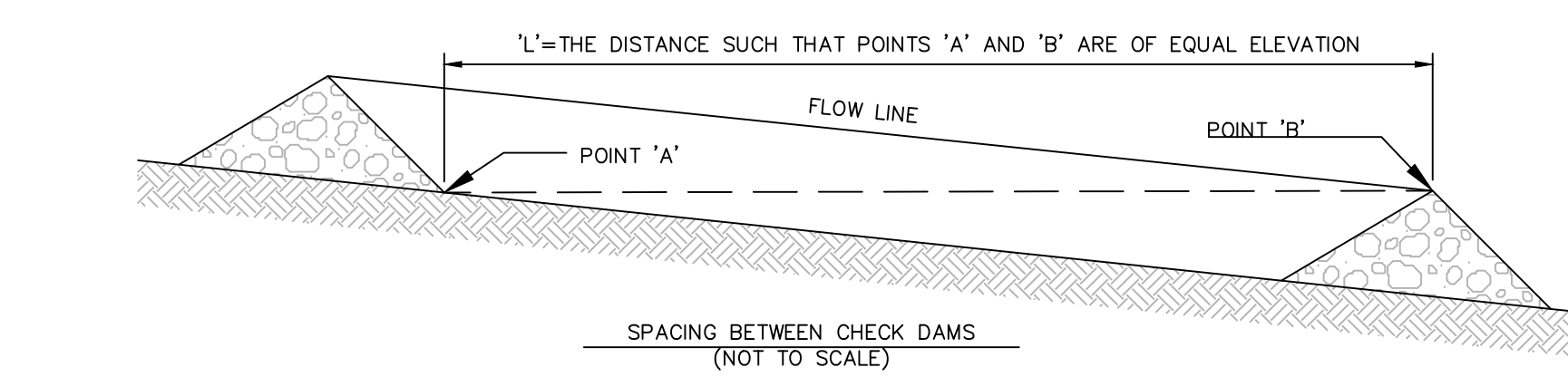
N.T.S.



- NOTES:
 1) KEY STONE INTO THE DITCH BANKS AND EXTEND INTO THE ABUTMENTS A MINIMUM OF 18" TO PREVENT FLOW FROM FLANKING THE CHECK DAM.
 2) THE MINIMUM DESIGN CAPACITY SHALL CONVEY A 2 YEAR - 24 HOUR PEAK FLOW.



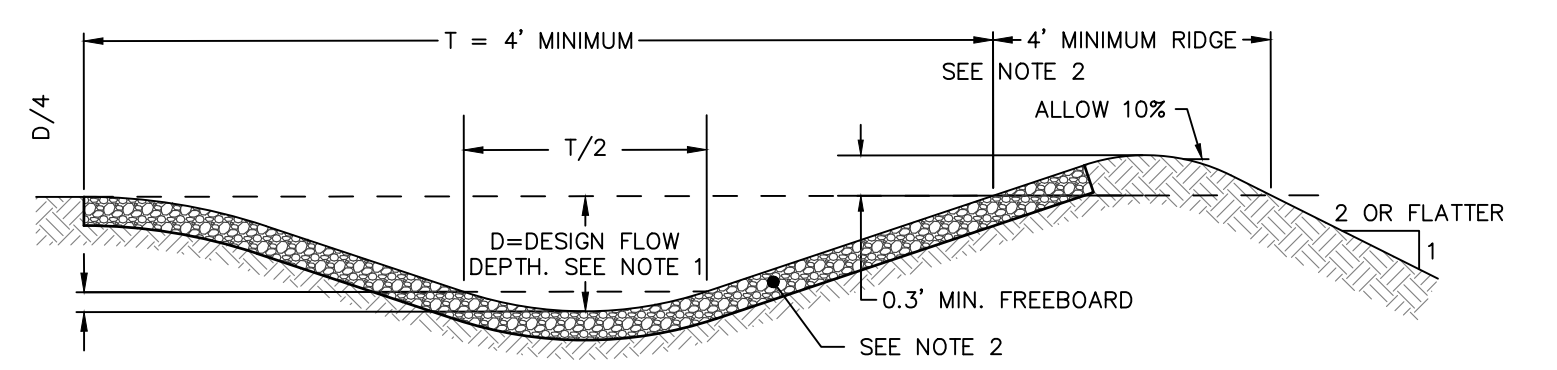
SECTION A-A (NOT TO SCALE)



STONE CHECK DAM INSTALLATION IN DRAINAGeways

N.T.S.

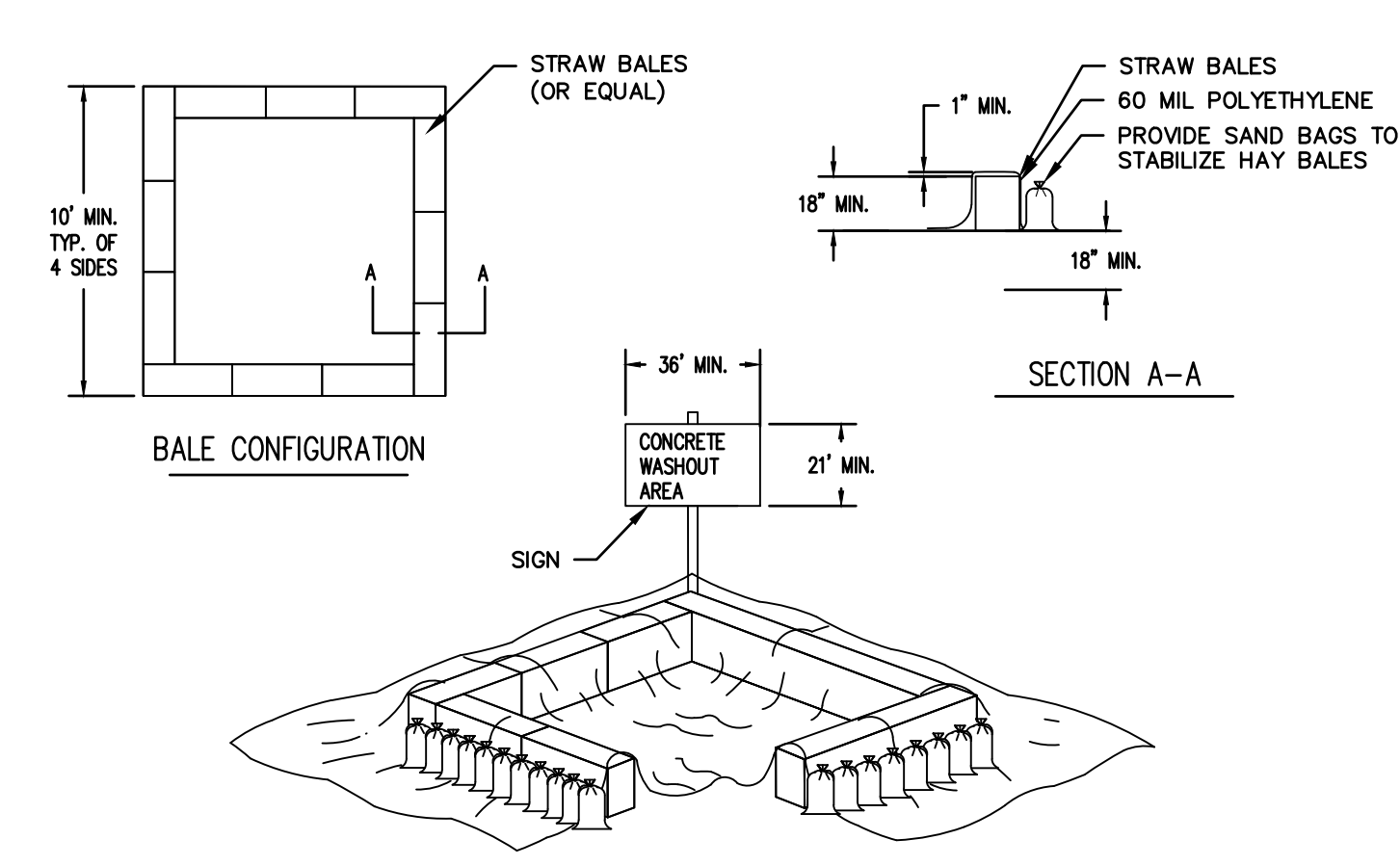
FIGURE SCD-2



- NOTES:
 1. MINIMUM DESIGN CAPACITY SHALL CONVEY A 2 YR. - 24 HOUR PEAK FLOW WITHOUT EROSION.
 2. INSTALL 4" TO 7" STONE OR RECYCLED CONCRETE EQUIVALENT PRESSED INTO SOIL A MINIMUM 7" LAYER
 3. 0.5% MINIMUM SWALE SLOPE

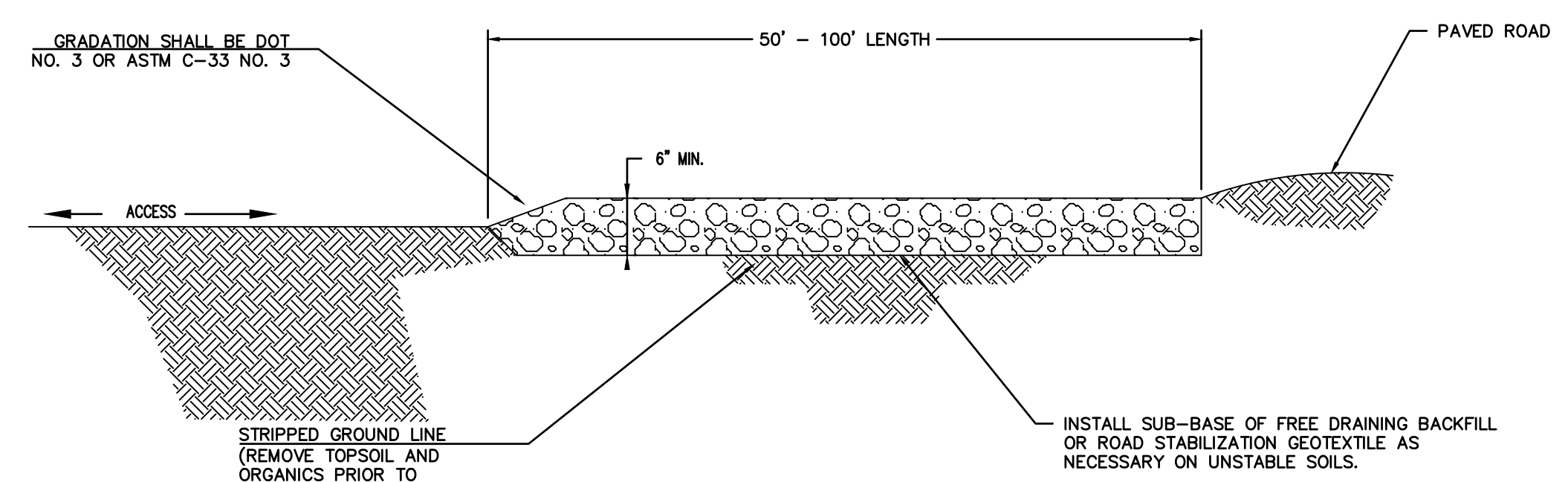
ENGINEERED DIVERSION DITCH DETAIL

N.T.S.



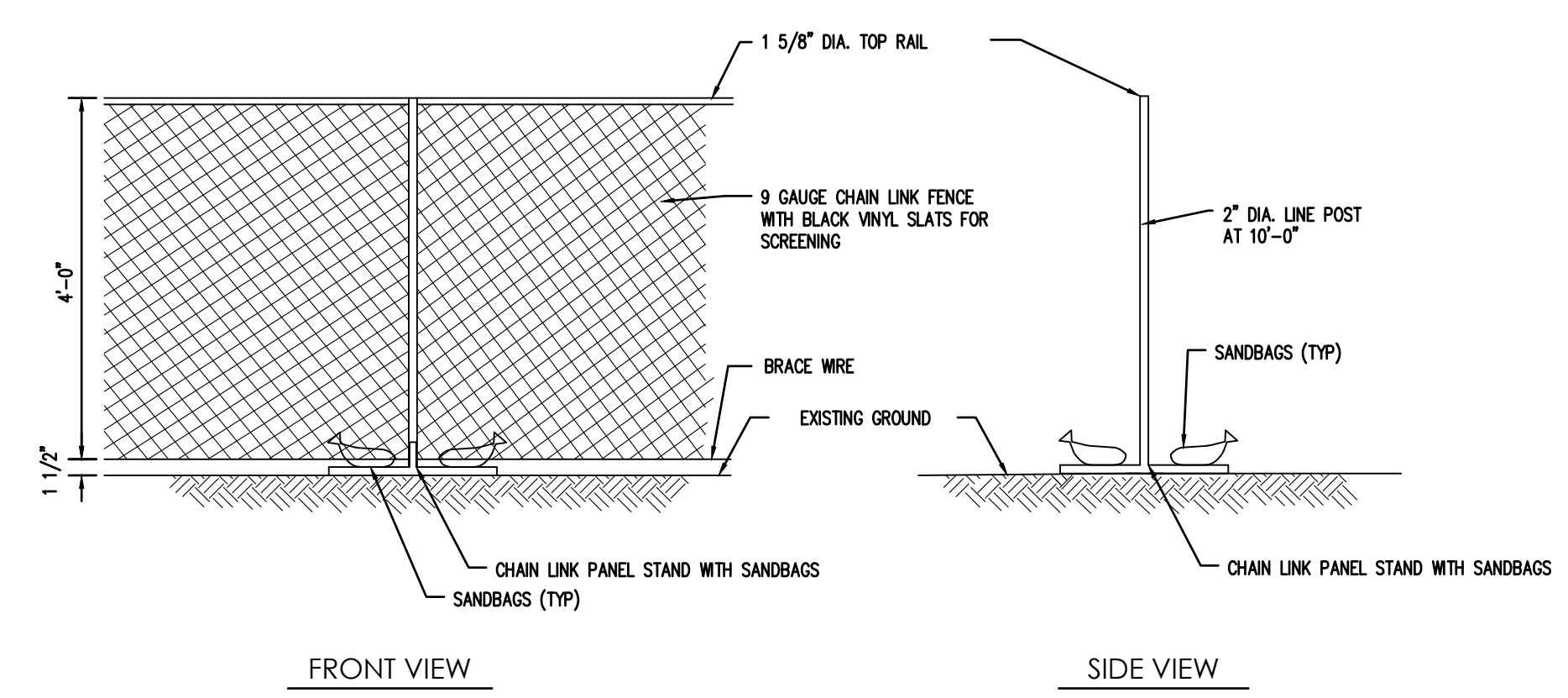
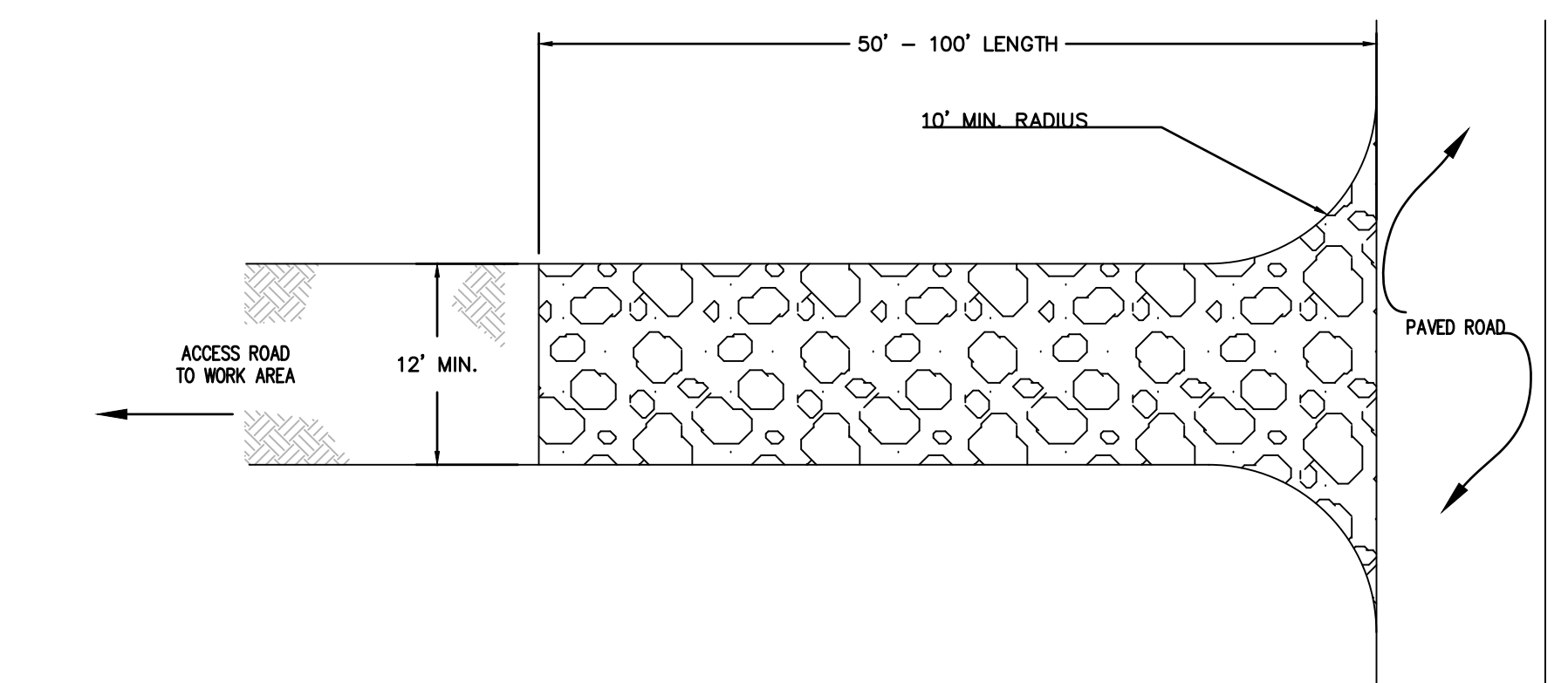
CONCRETE WASH PIT DETAIL

N.T.S.



TYPICAL CONSTRUCTION ENTERANCE

N.T.S.



TEMPORARY CHAIN LINK CONSTRUCTION FENCE DETAIL

N.T.S.

FOR PERMITTING PURPOSES ONLY
 NOT RELEASED FOR CONSTRUCTION



REVISIONS	Date	Desc.
No.		

Designed: J.P.D.
 Drawn: T.L.B.
 Reviewed: R.M.R.
 Scale: N.T.S.
 Project No.: 2302349
 Date: 06/17/2024
 CAD File: C2302349-410

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Sheet ID: 2302349-410

LANDSCAPING INFORMATION - GPDD

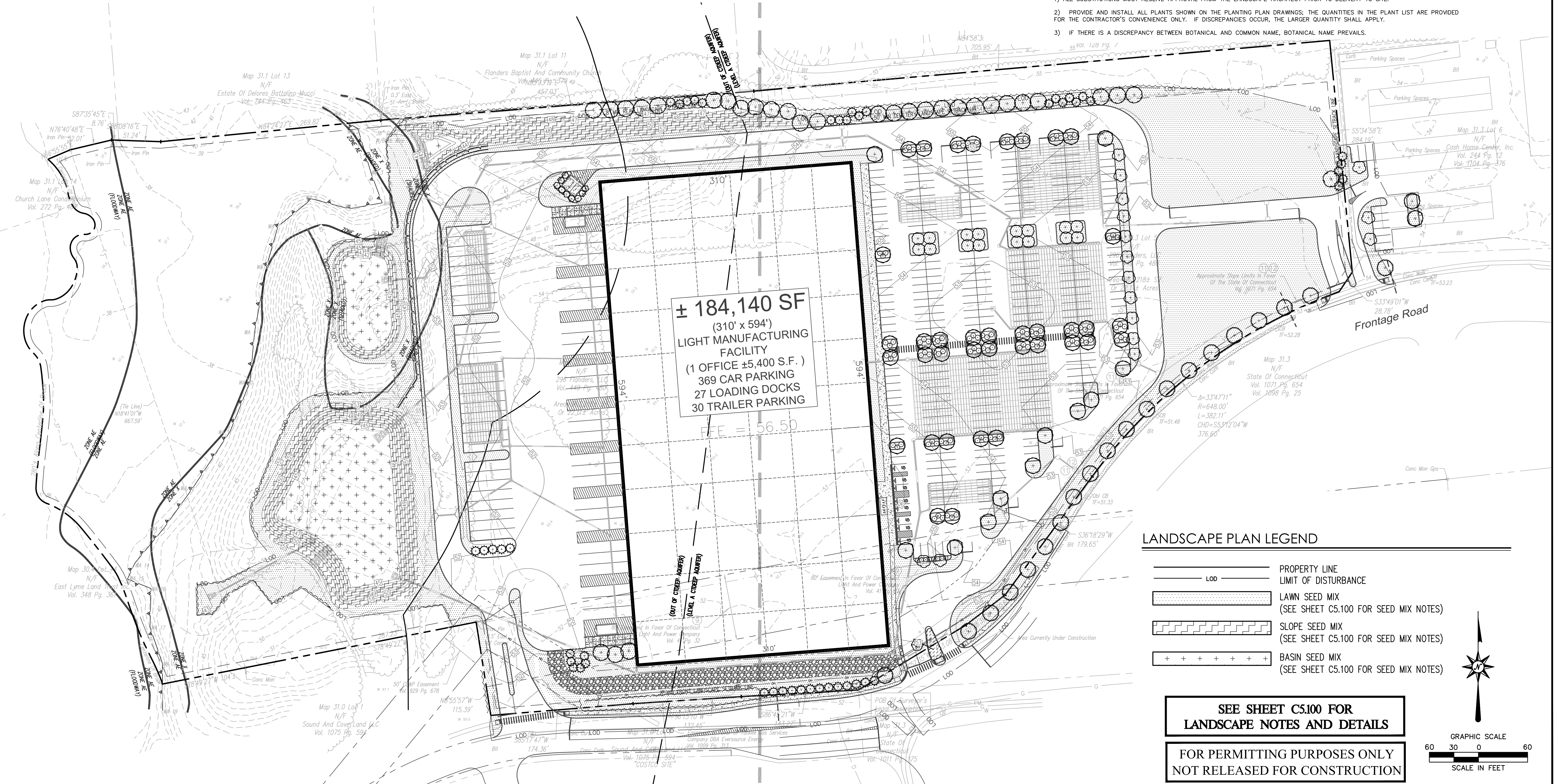
ITEM #	ITEM	REQUIREMENTS	PROPOSED	VARIANCE
1	BUFFERS 11A.2.1.D.	A BUFFER CONSISTING OF A PUBLIC GREEN SPACE A MINIMUM OF 50' WIDE AND A LANDSCAPED AREA MEETING THE STANDARDS OF A BUFFER BETWEEN CONTRASTING USES SHALL BE REQUIRED BETWEEN THE CEMETERY AND ANY OTHER USE.	EXISTING 50 FEET DENSE VEGETATION ALONG PROPERTY LINE BETWEEN CEMETERY TO REMAIN, ADDITIONAL PLANTINGS PROP.	NO
2	INTERIOR PARKING AREAS 11A.7.2	A MINIMUM OF 3 CANOPY TREES, 2 UNDERSTORY TREES AND 6 SHRUBS FOR EACH 24 P.K. SPACES. 369 P.K. SPACES = 46 CANOPY TREES, 31 UNDERSTORY TREES AND 93 SHRUBS REQ. THE MINIMUM LANDSCAPED AREA WITHIN THE PARKING LOT SHALL BE NO LESS THAN 10% OF THE TOTAL PAVED PARKING AND VEHICULAR CIRCULATION AREA TOTAL PAVED PARKING AND V.C.A. = 413,006 S.F. 10% = 41,300 S.F. REQ.	50 CANOPY TREES, 32 UNDERSTORY TREES AND 119 SHRUBS PROPOSED WITHIN PARKING LOT AREA ±17,030 S.F. PROP. (12.8%)	NO NO
3	STREET TREE 11A.7.3	STREET TREES SHALL BE REQUIRED ALONG ALL ROADS WITHIN THE DISTRICT SPACED 25-35FT O.C. AND PLACED 4 FT FROM THE CURB LINE OF THE ROAD. 705 FT STREET FRONTAGE (EXCLUDE PAVEMENT AREA AND EXISTING EVERGREEN ROW OF TREES TO REMAIN) / 35 = 20 STREET TREES REQ.	20 STREET TREES PLANTED 35' O.C. ALONG ROADS.	NO
4	FRONT LANDSCAPING 24.B.6.2.	EACH LOT WILL BE PROVIDED WITH A LANDSCAPED STRIP MORE THAN 6 FT IN WIDTH ALONG THE STREET LINE. AT A MINIMUM, ONE DECIDUOUS SHADE OR EVERGREEN TREE, WILL BE PLANTED FOR EACH 20 FT OF LOT FRONTAGE OR FRACTION THEREOF.	8 FT LANDSCAPED STRIP PLANTED AT LEAST 1 SHADE TREE OR EVERGREEN TREE PLANTED 20 FT O.C.	NO
5	BUFFER STRIP 24.B.6.3.	A MINIMUM 10 FT WIDTH LANDSCAPED BUFFER STRIP WILL BE REQUIRED ALONG ALL LOT BOUNDARIES ABUTTING ANY OTHER LOT.	10 FT WIDTH EVERGREEN BUFFER PROPOSED BETWEEN BOUNDARIES ABUTTING ANY OTHER LOT.	NO
6	PARKING AREA LANDSCAPING 24.B.6.4.	ALL OFF STREET PARKING AREAS OF 30 OR MORE SPACES WILL INCLUDE A MINIMUM OF 15 S.F. OR INTERIOR LANDSCAPING FOR EACH P.K. SPACE 369 x 15 = 5,520 S.F. REQ.	±17,030 S.F. PROP.	NO
7	PARKING AREA LANDSCAPING 24.B.6.5.	SCREENING - ALL OUTSIDE STORAGE AREA, LOADING BAYS, MACHINERY AND EQUIPMENT INSTALLATIONS, AND DISPOSAL CONTAINERS WILL BE FULLY SCREENED FROM VIEW FROM ANY STREET BY LANDSCAPE NOT LESS THAN 6 FT IN HT.	6-7 FT HT EVERGREEN SCREENING PROP. ALONG OUTSIDE STORAGE AREA, LOADING BAYS, MACHINERY AND EQUIPMENT INSTALLATIONS, AND DISPOSAL CONTAINERS.	NO

LANDSCAPING INFORMATION - GCMD

ITEM #	ITEM	REQUIREMENTS	PROPOSED	VARIANCE
1	BUFFERS	A LANDSCAPED BUFFER CONSISTING OF NATIVE EVERGREEN AND DECIDUOUS SPECIES SHALL BE REQUIRED ALONG THE OUTER PERIMETER OF THE MAP AREA TO PROVIDE SUITABLE VISUAL SCREENING	EVERGREEN AND DECIDUOUS SCREENING PROP.	NO
2	LANDSCAPED BUFFER WIDTH	MINIMUM WIDTH OF THE REQUIRED LANDSCAPED BUFFER a. 6 FT ALONG ANY PUBLIC STREET OR HIGHWAY b. 20 FT ALONG ANY ABUTTING NONRESIDENTIALLY ZONED PROPERTY c. 50 FT ALONG ANY ABUTTING RESIDENTIALLY ZONED PROPERTY	COMPLIED WITH CODE REQUIREMENTS	NO
3	PARKING AREA LANDSCAPING	A MINIMUM OF 3 CANOPY TREES, 2 UNDERSTORY TREES AND 6 SHRUBS SHALL BE REQUIRED WITHIN EACH PARKING AREA FOR EVERY 30 P.K. SPACES MINIMUM LANDSCAPED AREA = 10% OF THE TOTAL PAVED PARKING AREA	COMPLIED WITH CODE REQUIREMENTS	NO
4	STREET TREE	STREET TREES CONSISTING OF NATIVE EVERGREEN AND DECIDUOUS SPECIES SHALL BE REQUIRED ALONG ALL PUBLIC STREETS SPACED AT AN INTERVAL NO MORE THAN 50 FEET O.C. AND PLACED WITHIN THE PUBLIC R-O-W WHERE POSSIBLE	STREET TREES PLANTED 35' O.C. ALONG ROADS.	NO
5	SCREENING	OUTSIDE STORAGE AREAS, LOADING BAYS, MACHINERY AND EQUIPMENT, AND DISPOSAL CONTAINERS SHALL BE SCREENED FROM VIEW FROM ANY PUBLIC STREET OR PUBLIC PLAZA	COMPLIED WITH CODE REQUIREMENTS	NO

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING
CANOPY TREES							
+	AR	6	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	2"-2.5" CAL.	B&B	
+	GT	50	GLEDITSIA TRIACANTHOS INERMIS 'IMPCOLE'	IMPERIAL HONEY LOCUST	2"-2.5" CAL.	B&B	
EVERGREEN TREES							
+	JV	47	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	6'-7' HT.	B&B	
+	PS	25	PINUS STROBUS	WHITE PINE	6'-7' HT.	B&B	
+	TO	9	THUJA OCCIDENTALIS 'NIGRA'	BLACK ARBORVITAE	6-7' HT.	B&B	
STREET TREE							
+	ZG	20	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE JAPANESE ZELKOVA	2.5" CAL (8FT HT MIN)	B&B	
UNDERSTORY TREES							
+	AG	16	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE APPLE SERVICEBERRY	1.5"-2" CAL.	B&B	
+	CF	16	CORNUS FLORIDA 'WHITE'	WHITE FLOWERING DOGWOOD	1.5"-2" CAL.	B&B	
SHRUBS							
+	ISS	8	ILEX GLABRA 'SHAMROCK'	SHAMROCK INKBERRY HOLLY	5 GAL (MIN 24" HT)	CONT.	
+	JHB	111	JUNIPERUS HORIZONTALIS 'BLUE CHIP'	BLUE CHIP CREEPING JUNIPER	3 GAL.	CONT.	
PERENNIALS							
+	HH	51	HEMEROCALLIS X 'HAPPY DAYS'	HAPPY DAYS DAYLILY	1 GAL.	CONT.	36" o.c.

- NOTES:
- 1) ALL SUBSTITUTIONS MUST RECEIVE APPROVAL FROM THE LANDSCAPE ARCHITECT PRIOR TO DELIVERY TO SITE.
 - 2) PROVIDE AND INSTALL ALL PLANTS SHOWN ON THE PLANTING PLAN DRAWINGS; THE QUANTITIES IN THE PLANT LIST ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. IF DISCREPANCIES OCCUR, THE LARGER QUANTITY SHALL APPLY.
 - 3) IF THERE IS A DISCREPANCY BETWEEN BOTANICAL AND COMMON NAME, BOTANICAL NAME PREVAILS.



100 Constitution Plaza
10th Floor
Hartford, CT 06103
(860) 249-2200

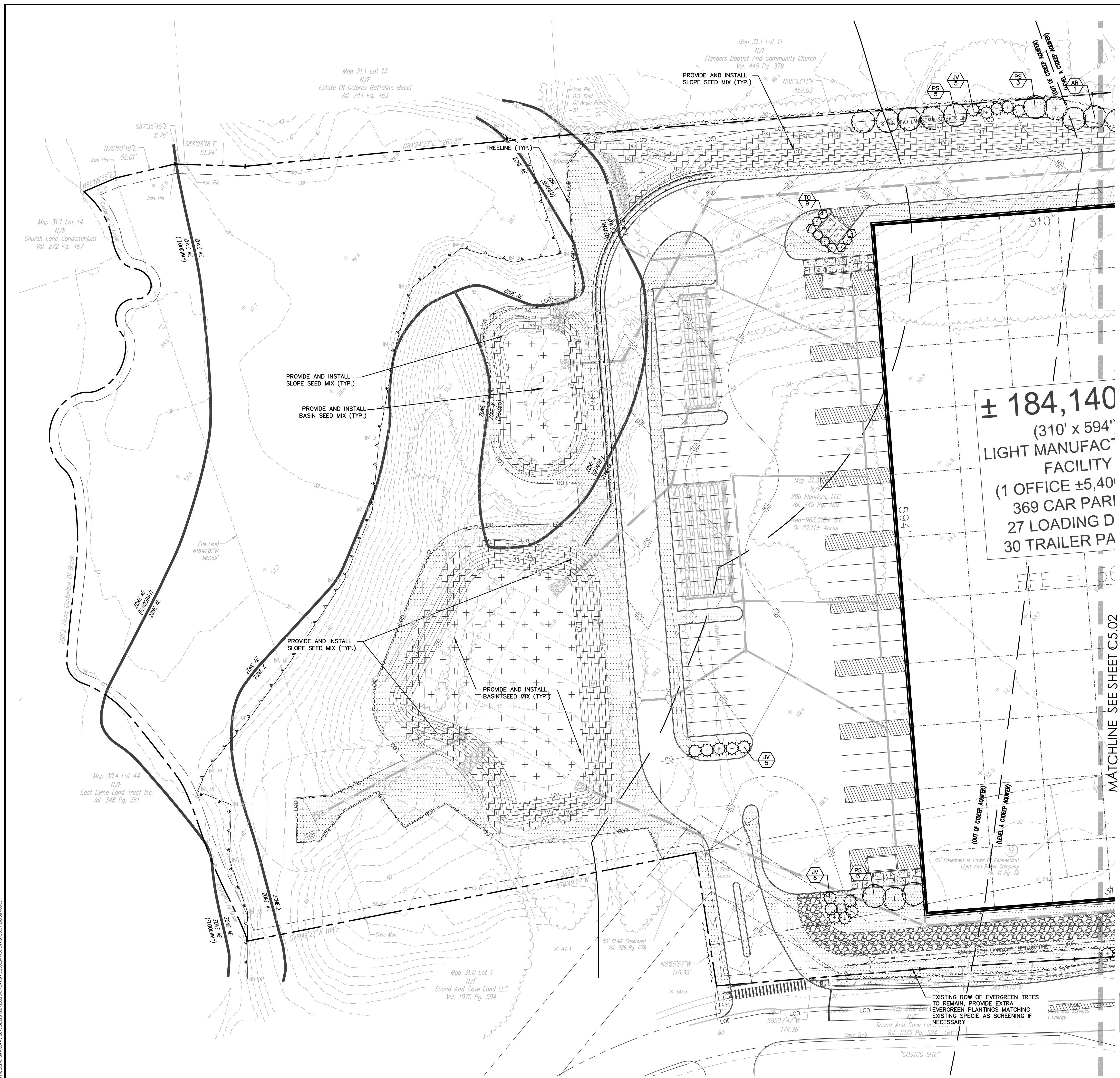


PROPOSED LIGHT MANUFACTURING
296 FLANDERS ROAD
EAST LYME, CONNECTICUT

DESIGNED: N.Y.Y.
DRAWN: N.Y.Y.
REVIEWED: J.C.W.
SCALE: 1"=60'
PROJECT NO.: 2302349
DATE: 06/17/2024
CAD FILE: C2302349-50

OVERALL LANDSCAPING PLAN

Sheet No. **C5.00**



± 184,140
 (310' x 594')
LIGHT MANUFACTURING FACILITY
 (1 OFFICE ±5,400)
 369 CAR PARKING
 27 LOADING DOCK
 30 TRAILER PARKING

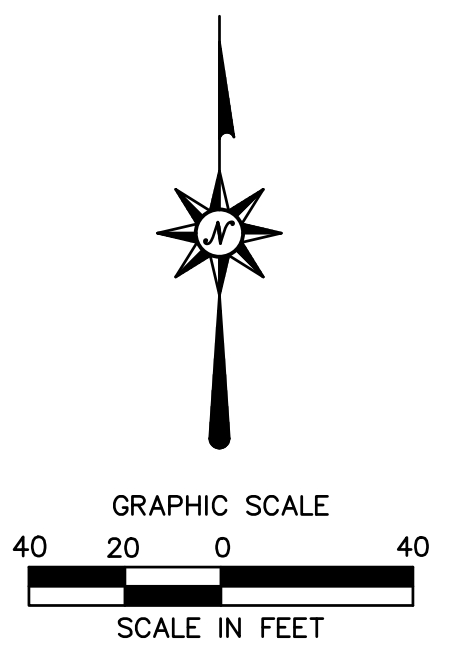
MATCHLINE SEE SHEET C5.02

LANDSCAPE PLAN LEGEND

- PROPERTY LINE
- LIMIT OF DISTURBANCE
- LAWN SEED MIX (SEE SHEET C5.100 FOR SEED MIX NOTES)
- SLOPE SEED MIX (SEE SHEET C5.100 FOR SEED MIX NOTES)
- BASIN SEED MIX (SEE SHEET C5.100 FOR SEED MIX NOTES)

SEE SHEET C5.100 FOR LANDSCAPE NOTES AND DETAILS

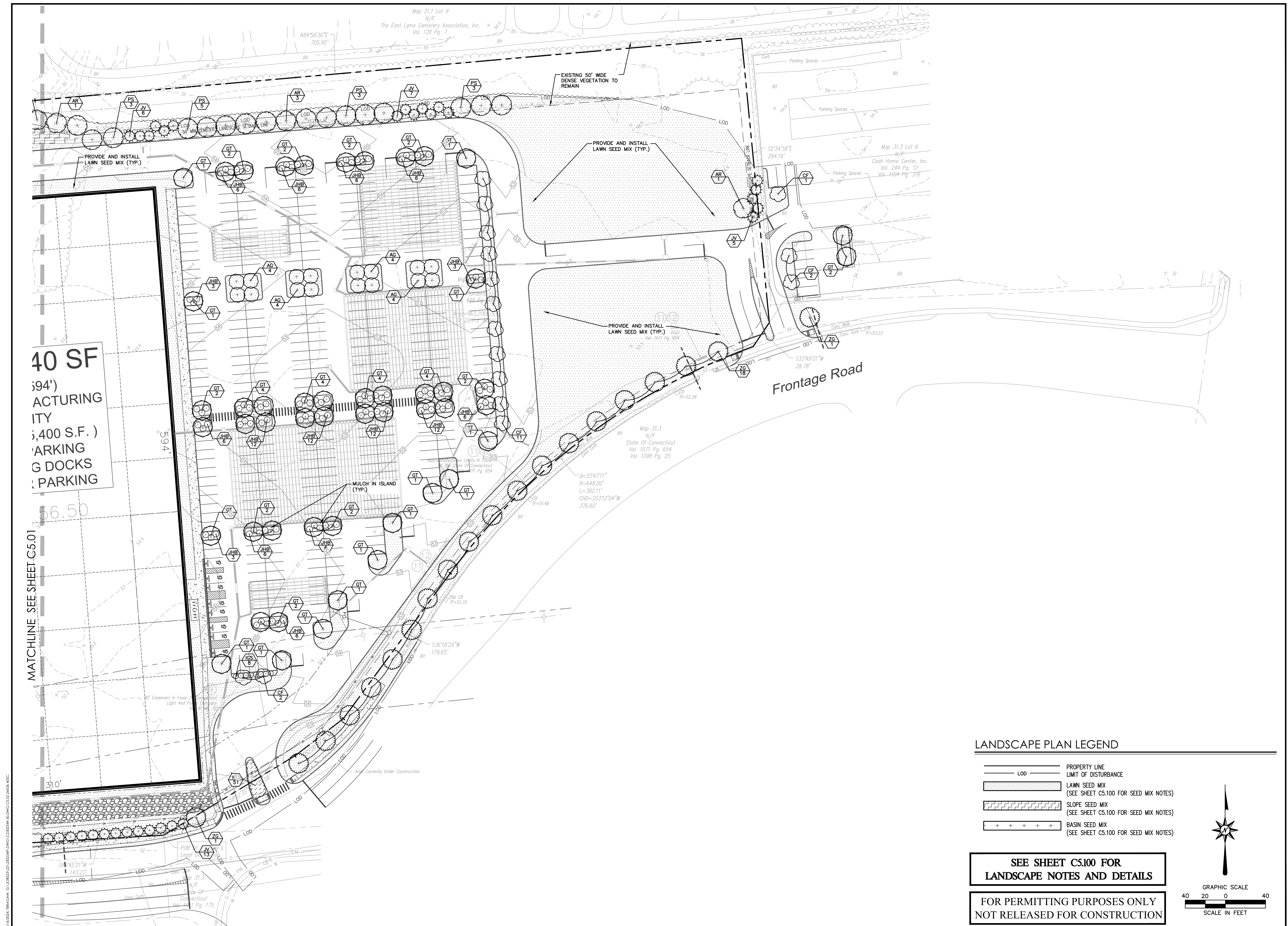
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 NOT RELEASED FOR CONSTRUCTION**



PROPOSED LIGHT MANUFACTURING
 296 FLANDERS ROAD
 EAST LYME, CONNECTICUT

REV/ISSUES	No.	Date	Desc.
Designed			N.Y.Y.
Drawn			N.Y.Y.
Reviewed			J.C.W.
Scale			1"=40'
Project No.			2302349
Date			06/17/2024
CAD File:			C2302349-50
Title			LANDSCAPING PLAN
Sheet No.			C5.01

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40 SF
 (94')
 ACTURING
 ITY
 ,400 S.F.)
 ARKING
 G DOCKS
 PARKING

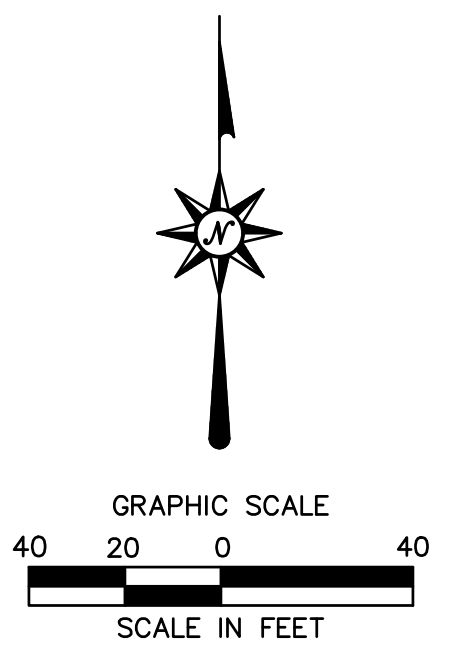
MATCHLINE SEE SHEET C5.01

LANDSCAPE PLAN LEGEND

	PROPERTY LINE
	LIMIT OF DISTURBANCE
	LAWN SEED MIX (SEE SHEET C5.100 FOR SEED MIX NOTES)
	SLOPE SEED MIX (SEE SHEET C5.100 FOR SEED MIX NOTES)
	BASIN SEED MIX (SEE SHEET C5.100 FOR SEED MIX NOTES)

**SEE SHEET C5.100 FOR
 LANDSCAPE NOTES AND DETAILS**

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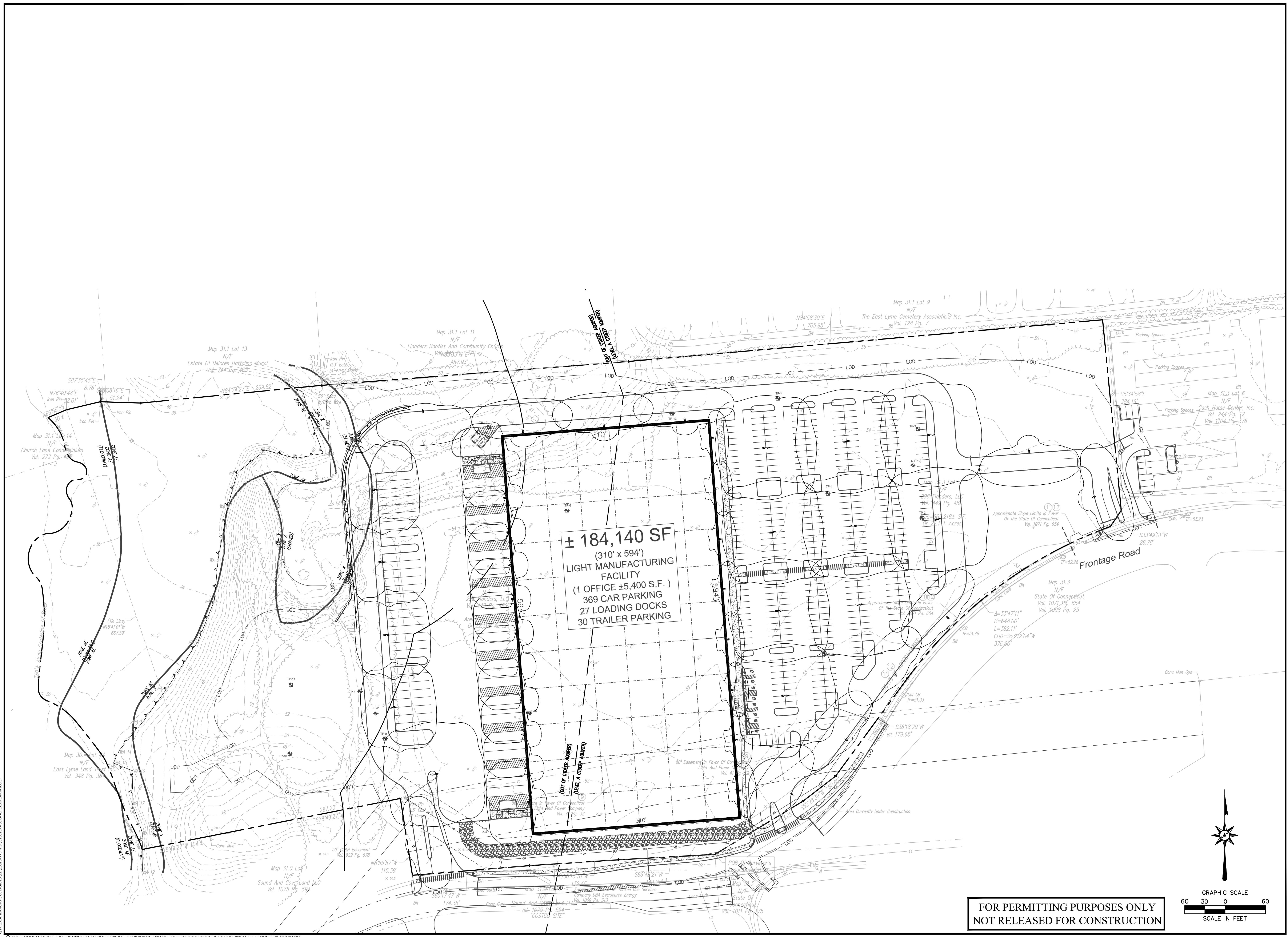
PROPOSED LIGHT MANUFACTURING
 296 FLANDERS ROAD
 EAST LYME, CONNECTICUT

DESIGNED	N.Y.Y.
DRAWN	N.Y.Y.
REVIEWED	J.C.W.
SCALE	1"=40'
PROJECT NO.	2302349
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CAD FILE	C2302349-50
TITLE	LANDSCAPING PLAN
SHEET NO.	C5.02

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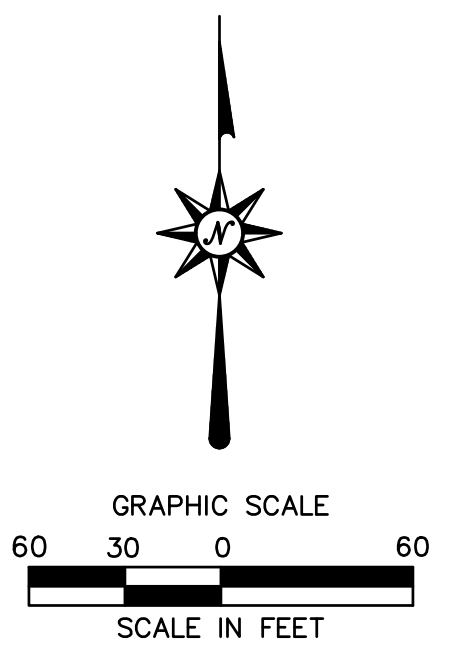


PROPOSED LIGHT MANUFACTURING
296 FLANDERS ROAD
EAST LYME, CONNECTICUT



± 184,140 SF
(310' x 594')
LIGHT MANUFACTURING
FACILITY
(1 OFFICE ± 5,400 S.F.)
369 CAR PARKING
27 LOADING DOCKS
30 TRAILER PARKING

**FOR PERMITTING PURPOSES ONLY
NOT RELEASED FOR CONSTRUCTION**



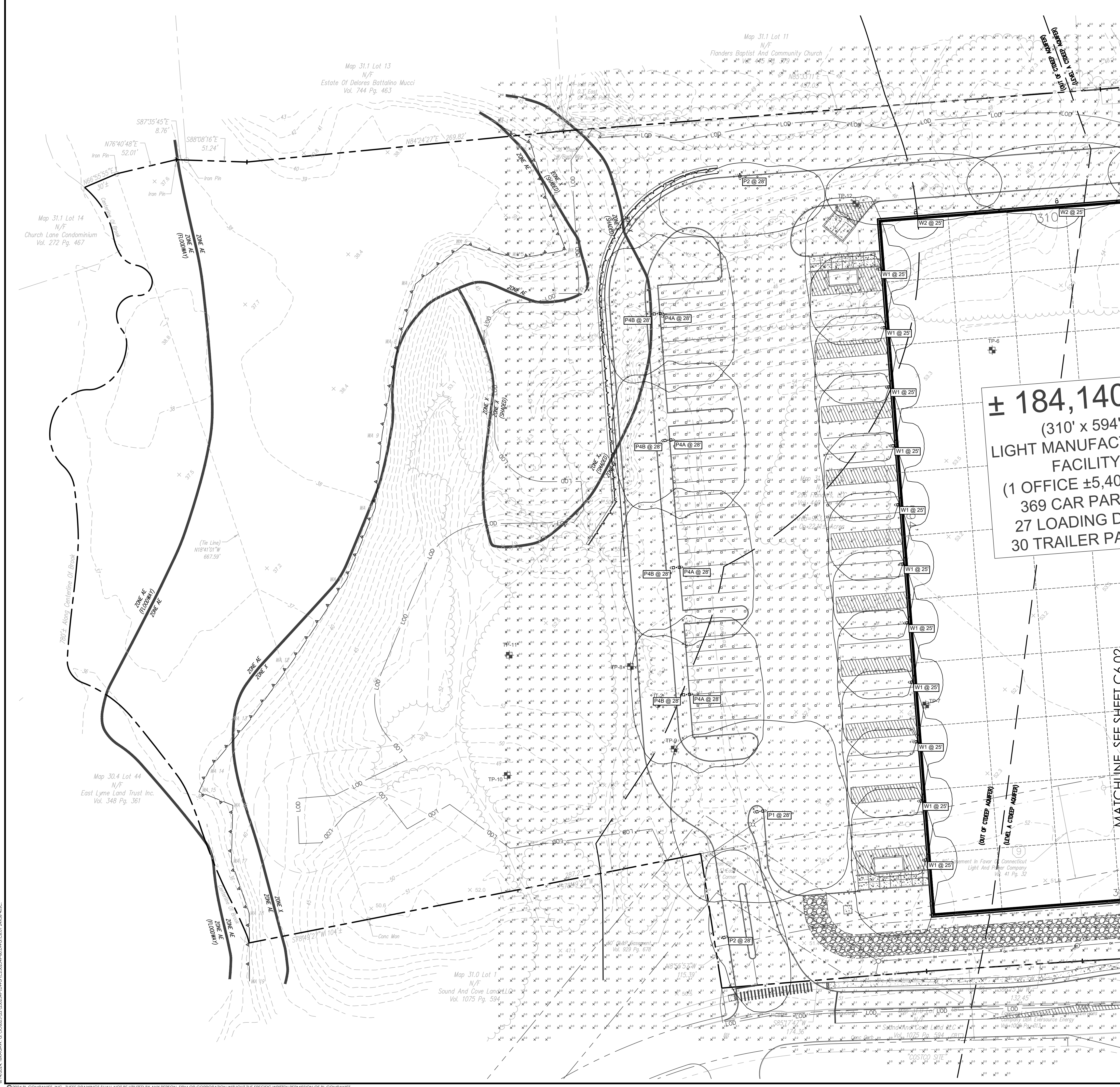
REVISIONS	
No.	Date

Designed	J.P.D.
Drawn	T.L.B.
Reviewed	R.M.R.
Scale	1"=60'
Project No.	2302349
Date	06/17/2024
CAD File:	C2302349-60

Title	
OVERALL LIGHTING PLAN	
Sheet No.	
C6.00	

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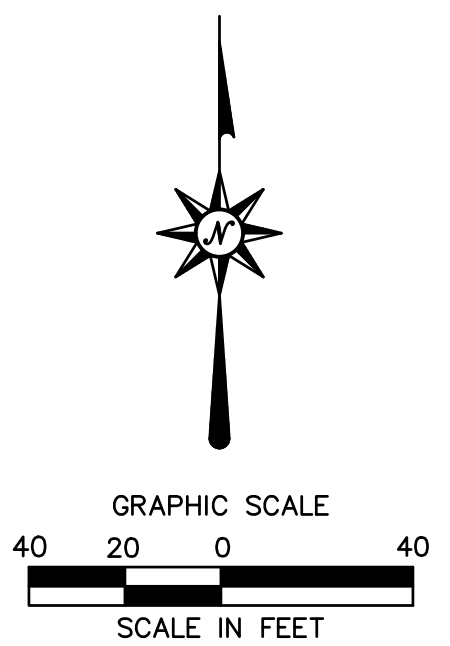
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± 184,140
(310' x 594')
LIGHT MANUFACTURING FACILITY
(1 OFFICE ±5,400)
369 CAR PARKING
27 LOADING DOCKS
30 TRAILER PARKING

MATCHLINE - SEE SHEET C6.02

**FOR PERMITTING PURPOSES ONLY
NOT RELEASED FOR CONSTRUCTION**



PROPOSED LIGHT MANUFACTURING
296 FLANDERS ROAD
EAST LYME, CONNECTICUT

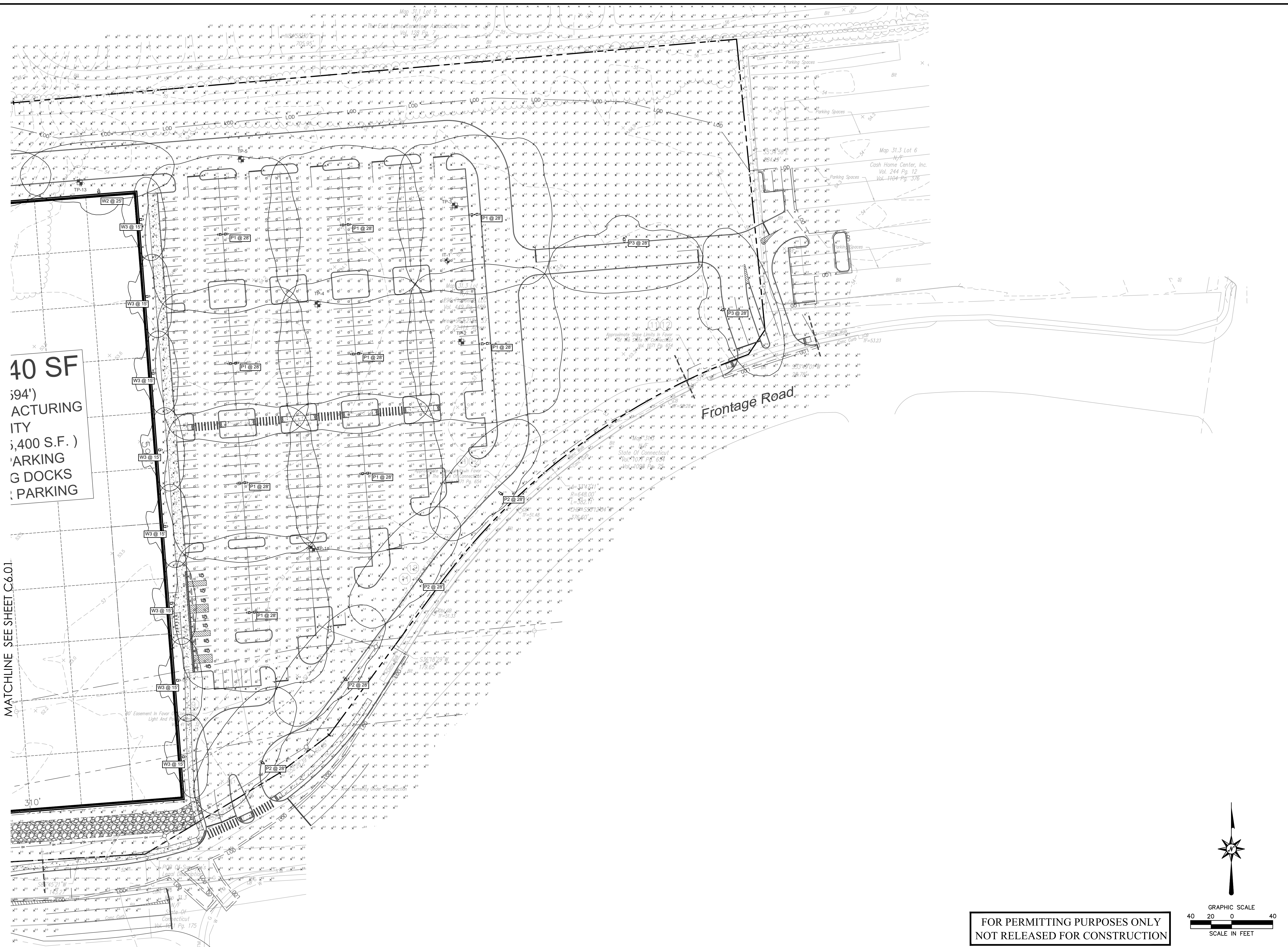
REVISIONS	
No.	Date

Designed: J.P.D.
Drawn: T.L.B.
Reviewed: R.M.R.
Scale: 1"=40'
Project No.: 2302349
Date: 06/17/2024
CAD File: C2302349-60

LIGHTING PLAN

Sheet No.

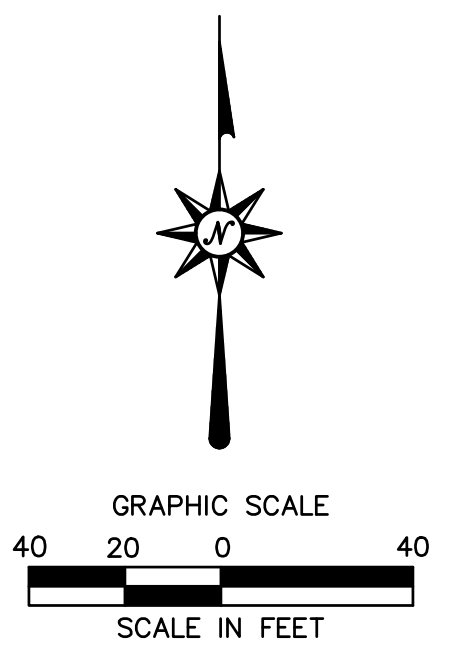
C6.01



40 SF
 (94')
 FACTORY
 (4,000 S.F.)
 BAY DOCKS
 PARKING

MATCHLINE SEE SHEET C6.01.

FOR PERMITTING PURPOSES ONLY
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PROPOSED LIGHT MANUFACTURING
 296 FLANDERS ROAD
 EAST LYME, CONNECTICUT

REV/ISSN	No.	Date	Desc.

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Date	06/17/2024
CAD File:	C2302349-60
Title	LIGHTING PLAN
Sheet No.	C6.02

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LIGHTING NOTES

1. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH ALL REQUIREMENTS OF ANY LOCAL APPLICABLE CODES OR ORDINANCES, PUBLIC UTILITY COMPANY REGULATIONS, STATE CODE, AND NATIONAL ELECTRICAL CODE WITH INTERIM AMENDMENTS THERETO.
2. ALL MATERIALS SHALL CONFORM TO THE LATEST ISSUE OF ALL APPLICABLE STANDARDS AS ESTABLISHED BY EEL, NEMA, ASTM, IPCEA, NATIONAL BOARD OF FIRE UNDERWRITERS, AND UNDERWRITERS LABORATORIES, INC.
3. THE CONTRACTOR SHALL TEST THE LIGHTING AFTER INSTALLATION WITH THE DEVELOPER/OWNER, AND PROVIDE TO DEVELOPER/OWNER WARRANTY AND MAINTENANCE INFORMATION. THE CONTRACTOR SHALL MAKE ADJUSTMENTS AND/OR MODIFICATIONS AS REQUIRED BY THE DEVELOPER/OWNER TO OBTAIN EVEN LIGHT DISTRIBUTION.
4. CONTRACTOR SHALL LEAVE ENTIRE ELECTRICAL SYSTEM INSTALLED BY THE CONTRACTOR IN PROPER WORKING CONDITION AND REPLACE WITHOUT ADDITIONAL CHARGE ALL WORK OR MATERIALS WHICH MAY DEVELOP DEFECTS WITHIN A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE BY THE OWNER.
5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS, BASES AND CONDUITS TO SITE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO DELIVERY OF MATERIAL TO SITE. ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW. IF ALTERNATIVE LIGHTING IS PROPOSED SUBMIT A PHOTOMETRIC FOOT-CANDLE LAYOUT ALONG WITH ANNUAL MAINTENANCE REQUIREMENTS AND ANTICIPATED COSTS.
6. LIGHTS ARE DESIGNED TO PROVIDE EVEN LEVELS OF ILLUMINATION AND AVOID GLARE ONTO NEIGHBORING PROPERTIES. ALL FIXTURES ON-SITE ARE FULL CUT OFF (NO LIGHT SPILLS UP) AND ALL FIXTURES ALONG THE PROPERTY LINE HAVE HOUSE SIDE SHIELDS (HS) TO PREVENT LIGHT FROM SPILLING ONTO NEIGHBORING PROPERTIES. FINAL DESIGN MAY VARY PENDING MANUFACTURER'S RECOMMENDATIONS.
7. ALL LIGHTING CONTROLS, PANELS, CIRCUIT BREAKERS ETC. ARE TO BE PROVIDED UNDER A SEPARATE CONTRACT BY BUILDING CONTRACTOR. CAREFUL COORDINATION IS REQUIRED BETWEEN SITE CONTRACTOR AND BUILDING CONTRACTOR TO PROVIDE A COMPLETE INSTALLATION FOR SITE LIGHTING.
8. THE CONTRACTOR WILL PROVIDE AND INSTALL ALL MATERIAL NECESSARY TO COMPLETE THE SITE LIGHTING SYSTEM INCLUDING BUT NOT LIMITED TO CONDUIT, BASES, ANCHOR BOLTS, POLES, SITE LIGHTS AND LAMPS. THE CONTRACTOR WILL COORDINATE WIRING AND POWERING OF LIGHTS WITH OWNER, ARCHITECT, AND BUILDING CONTRACTOR IF DIFFERENT FROM THE SITE CONTRACTOR.
9. ALL LIGHTS TO BE AS LISTED IN SCHEDULE OR APPROVED EQUIVALENT. LIGHTS SHALL BE MOUNTED ON STEEL POLES ATOP CONCRETE BASES THAT ARE SET 3' (CLEAR) BEHIND CURBS UNLESS OTHERWISE INDICATED ON CONTRACT DRAWINGS. ILLUMINATION ANALYSIS MODELED USING LIGHTING FIXTURES LISTED IN SCHEDULE.
10. LIGHT POLES AND BRACKETS TO BE AS SHOWN ON DETAILS OR APPROVED EQUIVALENT.
11. WIRE AND CABLE SHALL BE COPPER AND CONFORM TO THE FOLLOWING NEC TYPE THHN/THWN SOLID FOR NO. 12 AND NO. 10. NEC TYPE THHN/THWN STRANDED FOR NO. 8 AND LARGER. RIGID STEEL CONDUIT SHALL BE GALVANIZED. FITTINGS SHALL BE CAST FERROUS MATERIAL WITH A CADMIUM OR ZINC PLATED FINISH.
12. ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE TO NEC.
13. ALL LIGHTS WITH A 25'-FT MOUNTING HEIGHT OR GREATER SHALL RECEIVE A FACTORY INSTALLED VIBRATION DAMPENNER.

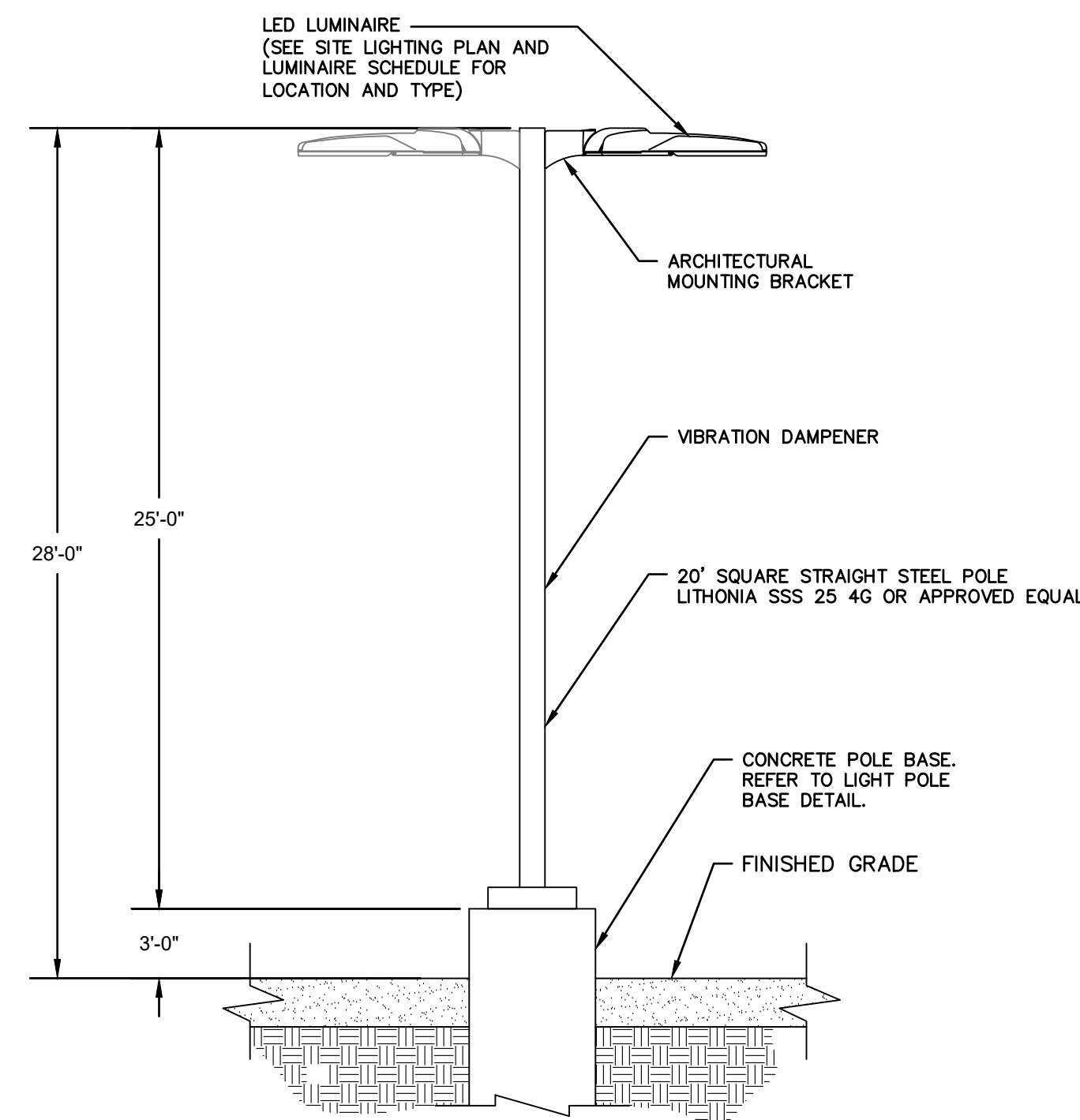
Symbol	Label	QTY	Manufacturer	Catalog	Description	Filename	Lamp Output	LLF	Input Power	Distribution
Schedule										
P1 - TWIN CONFIGURATION. SEE P1A AND P1B BELOW.										
⬆	P1A	10	Lithonia Lighting	DSX1 LED P4 30K 80CRI TSW	D-Series Size 1 Area Luminaire P4 Performance Package 3000K CCT 80 CRI Type 5 Wide	DSX1_LED_P4_3 OK_80CRI_TSW.l es	14819	0.9	123.94	TYPE VS, BUG RATING: B4 - U0 - G3
⬆	P1B	10	Lithonia Lighting	DSX1 LED P4 30K 80CRI TSW	D-Series Size 1 Area Luminaire P4 Performance Package 3000K CCT 80 CRI Type 5 Wide	DSX1_LED_P4_3 OK_80CRI_TSW.l es	14819	0.9	123.94	TYPE VS, BUG RATING: B4 - U0 - G3
⬆	P2	6	Lithonia Lighting	DSX1 LED P4 30K 80CRI T2M HS	D-Series Size 1 Area Luminaire P4 Performance Package 3000K CCT 80 CRI Type 2 Medium House-side Shield	DSX1_LED_P4_3 OK_80CRI_T2M_ HS.l es	11978	0.9	123.9373	TYPE III, MEDIUM, BUG RATING: B1 - U0 - G3
⬆	P3	2	Lithonia Lighting	DSX1 LED P4 30K 80CRI T2M	D-Series Size 1 Area Luminaire P4 Performance Package 3000K CCT 80 CRI Type 2 Medium	DSX1_LED_P4_3 OK_80CRI_T2M.l es	13805	0.9	123.94	TYPE III, MEDIUM, BUG RATING: B2 - U0 - G3
P4 - TWIN CONFIGURATION. SEE P4A AND P4B BELOW.										
⬆	P4A	4	Lithonia Lighting	DSX1 LED P5 30K 80CRI T4M HS	D-Series Size 1 Area Luminaire P5 Performance Package 3000K CCT 80 CRI Type 4 Medium House-side Shield	DSX1_LED_P5_3 OK_80CRI_T4M_ HS.l es	13408	0.9	138.1649	TYPE IV, MEDIUM, BUG RATING: B1 - U0 - G3
⬆	P4B	4	Lithonia Lighting	DSX1 LED P2 30K 80CRI T2M	D-Series Size 1 Area Luminaire P2 Performance Package 3000K CCT 80 CRI Type 2 Medium	DSX1_LED_P2_3 OK_80CRI_T2M.l es	8407	0.9	67.79	TYPE III, MEDIUM, BUG RATING: B2 - U0 - G3
⬆	W1	11	Lithonia Lighting	DSX1 LED P5 30K 80CRI T4M	D-Series Size 1 Area Luminaire P5 Performance Package 3000K CCT 80 CRI Type 4 Medium	DSX1_LED_P5_3 OK_80CRI_T4M.l es	15586	0.9	138.16	TYPE IV, MEDIUM, BUG RATING: B2 - U0 - G4
⬆	W2	3	Lithonia Lighting	DSX1 LED P4 30K 80CRI T2M	D-Series Size 1 Area Luminaire P4 Performance Package 3000K CCT 80 CRI Type 2 Medium	DSX1_LED_P4_3 OK_80CRI_T2M.l es	13805	0.9	123.94	TYPE III, MEDIUM, BUG RATING: B2 - U0 - G3
⬆	W3	8	Lithonia Lighting	DSXW2 LED 20C 700 30K T2M MVOLT	DSXW2 LED WITH 2 LIGHT ENGINES, 20 LED'S, 700mA DRIVER, 3000K LED, TYPE 2 MEDIUM OPTIC	DSXW2_LED_20 C_700_30K_T2M_MVOLT.l es	4991	1	47	TYPE III, MEDIUM, BUG RATING: B1 - U0 - G2

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
LOADING DOCK	+	2.9 fc	3.7 fc	1.6 fc	2.3:1	1.8:1
PARKING (EAST)	□	1.5 fc	2.7 fc	0.8 fc	3.4:1	1.9:1
PARKING (TRUCK)	□	1.2 fc	2.6 fc	0.4 fc	6.5:1	3.0:1
SITELANDSCAPE	X	0.3 fc	4.0 fc	0.0 fc	N/A	N/A
SPILL	X	0.0 fc	1.0 fc	0.0 fc	N/A	N/A
DRIVEWAY	◇	1.3 fc	2.1 fc	0.4 fc	5.3:1	3.3:1

- NOTES:**
1. CONCRETE POLE BASE DETAIL IS FOR ELECTRICAL FEATURES ONLY.
 2. CONTRACTOR TO PROVIDE SHOP DRAWINGS SIGNED AND SEALED BY A CONNECTICUT LICENSED ENGINEER OF FOUNDATION DESIGN TO THE CIVIL DESIGN ENGINEER FOR REVIEW AND APPROVAL.
 3. CONCRETE SHALL BE 4500 PSI COMPRESSIVE STRENGTH.
 4. ARRANGE CONDUITS SUCH THAT ALL WILL RUN WITHIN POLE BASE OPENING.
 5. CONCRETE SHALL BE CAST-IN-PLACE IN DRILLED EXCAVATION.

TYPICAL CONCRETE LIGHT POLE BASE DETAIL

N.T.S.



TYPICAL LUMINAIRE MOUNTING DETAIL

N.T.S.

D-Series Size 1 LED Area Luminaire

Specifications

EPA: 0.69' (0.06 m)
 Length: 32.71" (831 mm)
 Width: 14.26" (362 mm)
 Height H1: 7.88" (200 mm)
 Height H2: 2.73" (69 mm)
 Weight: 34 lbs (15.4 kg)

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAR2 PIRHN DDBXD

Series	LEDs	Color Temperature	Color Rendering Index	Distribution	Voltage	Mounting
DSX1 LED	P1 P6	30K 3000K	70CRI	AFR Automotive front row	MVOLT (120V-277V) ¹	SPA Square pole mounting (Ø8 drilling)
	P2 P7	40K 4000K	70CRI	T1S Type I short	HVOLT (347V-480V) ^{1,2}	RPA Round pole mounting (Ø8 drilling)
	P3 P8	50K 5000K	70CRI	T2M Type II medium	XVOLT (277V-480V) ^{1,2}	SPAS Square pole mounting (Ø5 drilling)
	P4 P9	(this section 80CRI only, extended lead times apply)	80CRI	T3M Type III medium	208 ^{1,2,3}	SPAS Square pole mounting (Ø5 drilling)
	P5		80CRI	T4M Type IV medium	240 ^{1,2,3}	SPAS Square pole mounting (Ø5 drilling)
	P10 ¹ P12 ¹	27K 2700K	80CRI	T4LG Type IV low glare ¹	227 ^{1,2,3}	SPAS Square pole mounting (Ø5 drilling)
	P11 ¹ P13 ¹	30K 3000K	80CRI	T4M Type IV medium	240 ^{1,2,3}	SPAS Square narrow pole mounting (Ø5 drilling)
		40K 4000K	80CRI	T4LG Type IV low glare ¹	347 ^{1,2,3}	WBA Wall bracket ¹
		50K 5000K	80CRI	T4M Type IV medium	480 ^{1,2,3}	MBA Mast arm adapter (mounts on 2.318" OD horizontal tower)

Control options: NLTAR2 PIRHN (night All-gen 2 enabled with bi-level motion / ambient sensor 3-40' mounting height, ambient sensor enabled at 2K, 1.5, 1.1, 0.7)
 PIR High/Low motion/ambient sensor 3-40' mounting height, ambient sensor enabled at 2K, 1.5, 1.1
 PER NEMA two-lock receptacle only (controls ordered separately)^{1,2}
 PER5 Five-pin receptacle only (controls ordered separately)^{1,2}

Other options: PER7 Seven-pin receptacle only (controls ordered separately)^{1,2}
 FAO Field adjustable output^{1,2}
 BL30 Bi-level adjustable output 30%, 50%, 75%
 BL50 Bi-level switched dimming 50%, 75%
 DMG 0-10v dimming wires pulled outside fixture for use with an external control, ordered separately)^{1,2}
 DS Dual switching^{1,2,3}

Shipped installed: SPROCK 20X surge protection
 HS House-side shield (black finish standard)^{1,2}
 L90 Left rotated optic¹
 R90 Right rotated optic¹
 CCE Coastal Construction¹
 HA 50°C ambient operation¹
 BAA Bay Area/Alto's Act Compliant Single face (120, 277, 347V)^{1,2}
 SF Double face (208, 240, 480V)^{1,2}

Shipped separately: EGSR External Glass Shield (weatherable, field install required, matches housing finish)
 R50B Best Spikes (field install required)

Finish options: DDBXD Dark Bronze
 DBLXD Black
 DNAXD Natural Aluminum
 DWKXD White
 DDBTDXD Textured dark bronze
 DBLTDXD Textured black
 DNATDXD Textured natural aluminum
 DWKGTDXD Textured white

Other Options: S¹ Single face (120, 277, 347V)¹
 DF Double face (208, 240, 480V)¹
 HS House-side shield¹
 SPD Separate surge protection¹

Shipped separately: BSW Best-dimmer optics
 VG Variable guard

Finish options: DDBXD Dark bronze
 DBLXD Black
 DNAXD Natural aluminum
 DWKXD White
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 DBLTDXD Textured black
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Shipped installed: PE Photoelectric cell, button type¹
 PER NEMA two-lock receptacle only (controls ordered separately)¹
 PER7 Seven wire receptacle only (controls ordered separately)¹
 PER5 Five wire receptacle only (controls ordered separately)¹
 DMC 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)¹
 PIR 100' motion/ambient light sensor, <15' mag h=11'¹
 PIR1 100' motion/ambient light sensor, 15-30' mag h=11'¹
 PIR1FCV Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 16'^{1,2}
 PIR1FCV1 Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 16'^{1,2}

Other Options: S¹ Single face (120, 277, 347V)¹
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 HS House-side shield¹
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 VG Variable guard

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