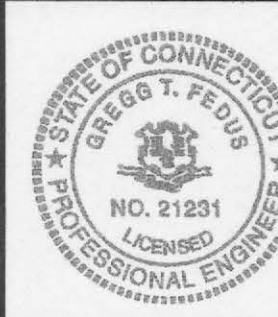


SOIL EROSION AND SEDIMENT CONTROL PLAN NARRATIVE

THE SITE CONTRACTOR MUST FOLLOW ALL GUIDELINES SET FORTH IN THE MANUAL ENTITLED "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" PUBLISHED BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION. THIS MANUAL IS ALSO KNOWN AS DEP BULLETIN 34. IN ADDITION THE SITE CONTRACTOR MUST FOLLOW THE TOWN'S ZONING AND SUBDIVISION REGULATIONS, TOWN EMERGENCY STANDARDS AND SPECIFICATIONS, CTDOT FORM 816 WHERE APPLICABLE.

WETLANDS DELINEATED BY  
DAVID LORD, SOIL SCIENTIST *David Lord*  
DATE: 12/05/2022

Gregg T. Fedus P.E.  
CT. License No. 2123



Soil & Erosion Control Plan  
of  
2040 New London Turnpike  
(AKA CT RT 32)  
Uncasville, Connecticut  
Prepared For:  
AMER CHOUDREY  
February 7, 2023

DRAWING SCALE: 1"=30'



A horizontal graphic scale bar with alternating black and white segments. Below the bar are numerical markings at 0, 15, 30, and 60.

**FEDUS ENGINEERING, LLC**  
CIVIL ENGINEERS

Mailing Address: 70 Essex Street Mystic, Connecticut 06355  
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SHEET NO. 5 OF 8	JOB NO. 21-001048	DRAWN BY: DC
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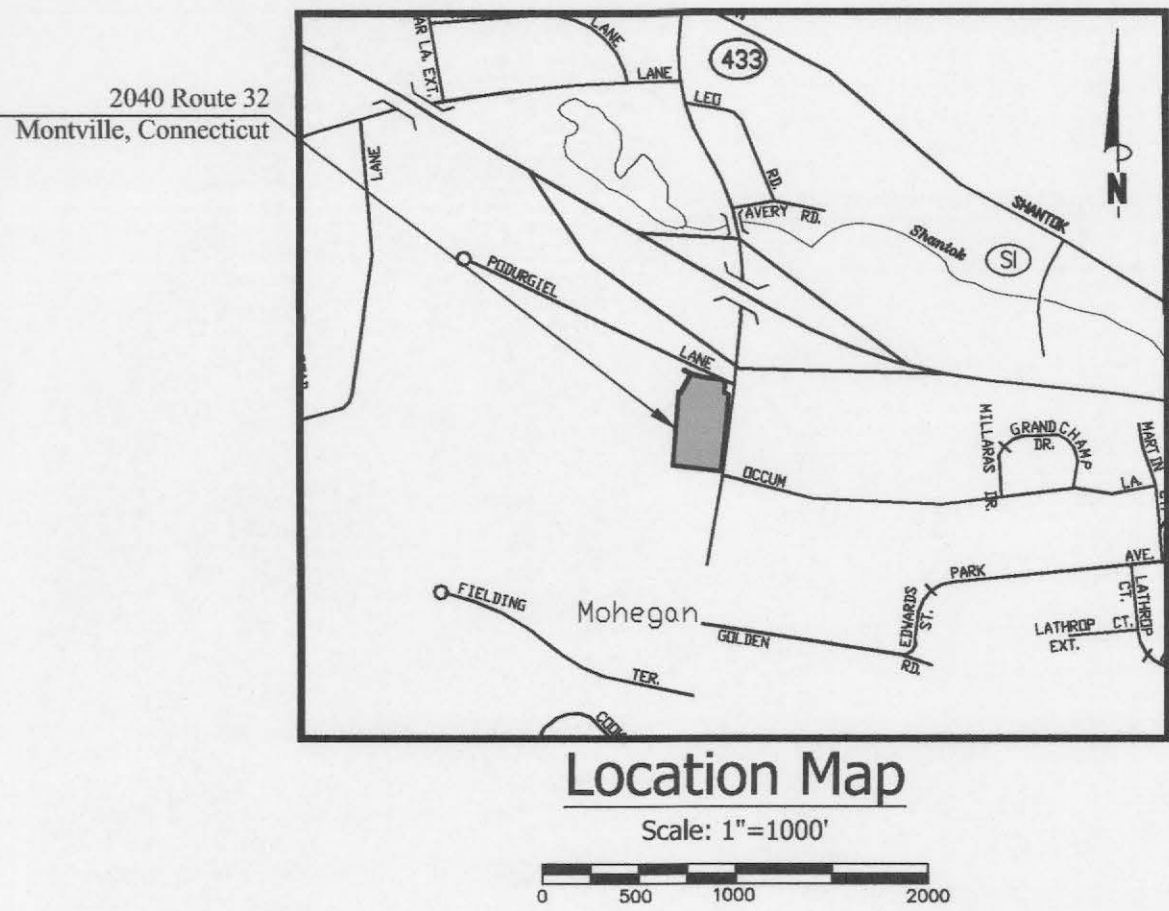
**Lumark**  
Axcent  
Wall Mount Luminaire  
Product Features  
Interactive Menu  
Quick Facts  
Dimensional Details

Reference Maps:

1. "BOUNDARY SURVEY PROPERTY OF NDKLP MONTVILLE ASSOCIATES, LLC 2040 ROUTE 32, UNCASVILLE, CONNECTICUT " DATED: SEPTEMBER 28, 2011, BY: JAMES BERNARDO LAND SURVEYING, LLC, LS #70121.
2. "PROPERTY SURVEY MAP DEPICTING EXISTING CONDITIONS OF 2040 NEW LONDON TURNPIKE (AKA CT 32) UNCASVILLE, CONNECTICUT PREPARED FOR: AMER CHOUDREY" DATED: APRIL 18, 2023, REVISED TO 7/6/2023, BY: ANTHONY HENDRIKS, LS #10834, FEDUS ENGINEERING,LLC.

NOTES:

1. AREA OF WETLAND ON SITE ARE 21,832 SF/0.50 ACRES.
2. PROPOSED AREA DISTURBED IN THE 50' REVIEW ZONE IS 21,484 SF/0.49 ACRES.
3. ALL PLANTED AND LANDSCAPED AREAS SHALL BE MAINTAINED CONTINUOUSLY BY THE OWNER OF THE PROPERTY. ALL TREES REQUIRED TO BE PLANTED IN LANDSCAPED AREAS SHALL BE AT LEAST SIX-FEET IN HEIGHT AT THE TIME OF THE PLANTING.
4. THE OWNER OF PROPERTY USED FOR PARKING AND / OR LOADING SHALL MAINTAIN SUCH AREA AND ALL REQUIRED SIDEWALKS AND BUFFER AREAS IN GOOD CONDITIONS WITHOUT HOLES AND FREE OF ALL DUST, TRASH, AND OTHER DEBRIS.
5. ALL SITE LIGHTING MUST BE OF THE "FULL CUT OFF" DESIGN, AND CONTROLLED FOR DAYLIGHT AND DIMMING AS DEFINED BY THE CT MODIFICATIONS TO THE INTERNATIONAL ENERGY CONSERVATION CODE.
6. LIGHT POLE BASES SHALL BE ENGINEERED FOR WIND LOADS ASSOCIATED WITH THE ACTUAL POST TO BE INSTALLED. MANUFACTURERS SPECIFICATIONS WHERE PRE-ENGINEERED ARE ACCEPTABLE.
7. POST SIGN WILL REQUIRE A SEPARATE PERMIT, AND REQUIRE ENGINEERED FOUNDATION FOR WIND LOAD DESIGN.

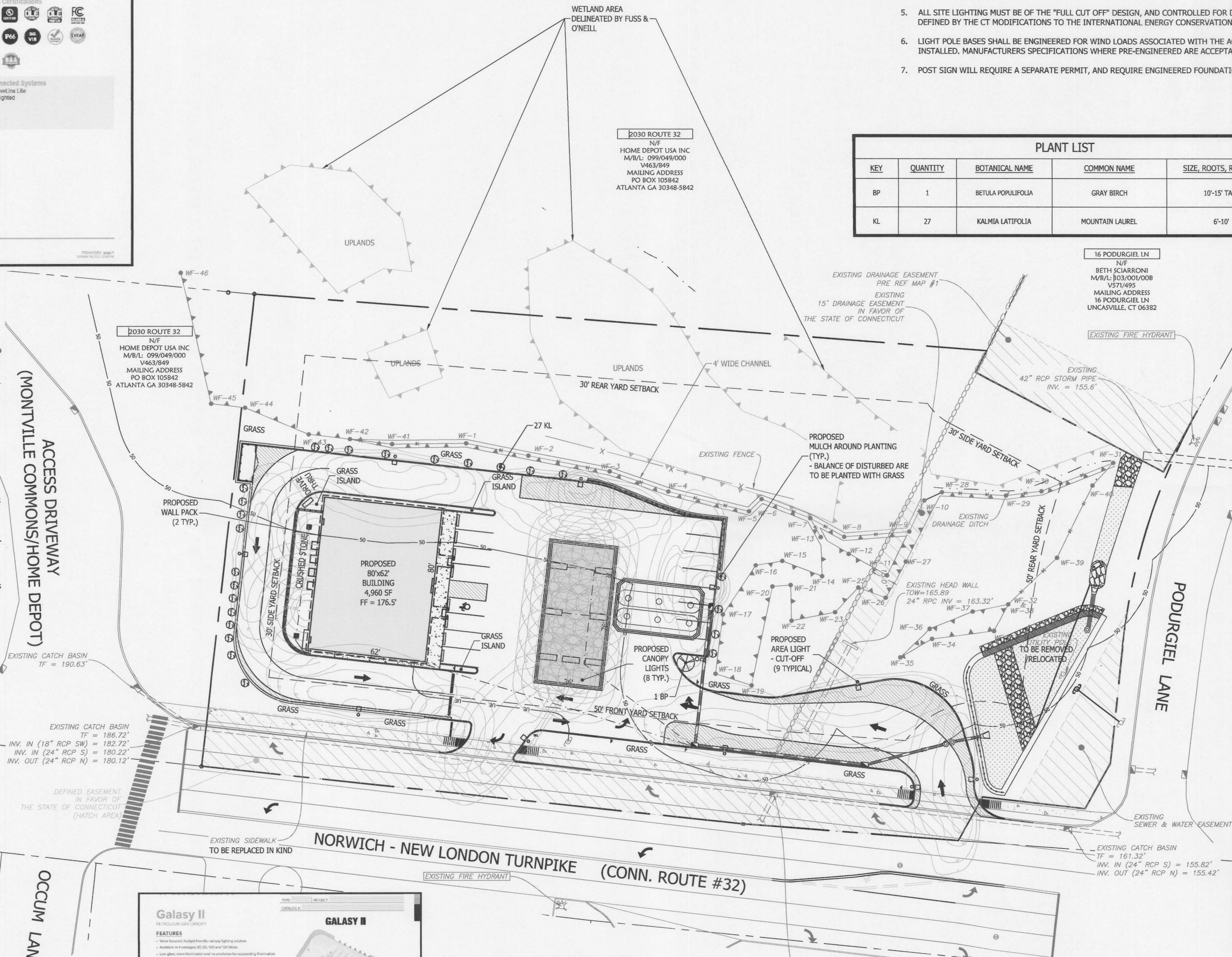


PLANT LIST

KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE, ROOTS, REMARKS
BP	1	BETULA POPULIFOLIA	GRAY BIRCH	10'-15' TALL
KL	27	KALMIA LATIFOLIA	MOUNTAIN LAUREL	6'-10'

Surface Landscaping Notes:

- SOIL MANAGEMENT:  
• THE TREATMENT BEGINS WITH SOIL TESTING TO DETERMINE ITS PH LEVEL, NUTRIENT COMPOSITION, AND TEXTURE. BASED ON THE RESULTS, THE SOIL MAY REQUIRE AMENDMENTS LIKE ORGANIC COMPOST OR SAND TO IMPROVE ITS FERTILITY AND DRAINAGE. REGULAR MULCHING HELPS TO RETAIN SOIL MOISTURE, REDUCE EROSION, AND SUPPRESS WEED GROWTH.
- PLANT SELECTION:  
• THE PLANTS CHOSEN FOR THESE LANDSCAPED ISLANDS WERE DONE TO INSURE VISUAL APPEAL AND SUSTAINABILITY. NATIVE PLANTS WERE CHOSEN TO ADAPTED TO THE LOCAL CLIMATE AND SOIL CONDITIONS. THESE PLANTS ARE MORE RESISTANT TO LOCAL PESTS AND DISEASES, AND SUPPORT LOCAL BIODIVERSITY.
- GROUND COVER:  
• GRASS, MOSS, AND PLANTS WITH A LOW GROWTH PATTERN WILL BE INCLUDED IN THE LANDSCAPING. THESE SELECTIONS CONTRIBUTE TO SOIL EROSION PREVENTION WHILE ALSO DELIVERING A VISUALLY APPEALING AND DIVERSE SURFACE.
- INCORPORATING HARD SURFACES:  
• WE HAVE MINIMIZED THE INCLUSION OF NON-ESSENTIAL PATHWAYS, BENCHES, OR OTHER HARDSCAPES INTENDED FOR HUMAN USE, IN AN EFFORT TO LESSEN THE IMPACT ON THE VEGETATION.
- WATER MANAGEMENT:  
• A THOUGHTFUL DRAINAGE SYSTEM HAS BEEN CREATED TO MITIGATE THE RISKS OF WATERLOGGING AND PLANT DISEASE. THIS DESIGN IS ALSO ADAPT AT MINIMIZING THE NEED FOR AN EXTENSIVE IRRIGATION SYSTEM IN DRY AREAS.
- REGULAR MAINTENANCE:  
• REGULAR PRUNING, WEEDING, FERTILIZING, AND WATERING ENSURES THE LANDSCAPED AREA STAYS HEALTHY AND ATTRACTIVE. REGULAR INSPECTION FOR PESTS AND DISEASES ALLOWS FOR EARLY DETECTION AND TREATMENT.



**InVue**  
VISION SITE LED  
1-4 LightBARS  
Gold Line LED  
ANSI/IESNA E-1-17  
August 11, 2023 12:16 PM

**Legend**

EXISTING

SYMBOL DESCRIPTION

MONUMENT

EX. IP / REBAR

DRILL HOLE

UTILITY POLE W/ LIGHT

STONEWALL

FENCE LINE

WATER VALVE

OVERHEAD WIRES

PROPERTY LINE

ADJACENT PROPERTY LINE

INDEX CONTOUR

CONTOUR

WETLANDS BOUNDARY/FLAG

MEAN LOW WATER LINE

MEAN HIGH WATER LINE

COASTAL JURISDICTIONAL LINE

ZONE LINE

EASEMENT LINE

BUILDING SETBACK LINE

EXISTING WATER LINE

EXISTING SEWER LINE

NOW OR FORMERLY CATCH BASIN

(TYP.)

SPOT ELEVATION

DRILL HOLE

POINT OF BEGINNING

TEST PIT

PERCOLATION TEST

UTILITY POLE

DRAINAGE MANHOLE

SEWER MANHOLE

HYDRANT

WATER SHUTOFF

EXISTING EASEMENT

PROPOSED

IRON PIN TO BE SET

**Galaxy II**  
LED LIGHTING SYSTEM

FEATURES

CONSTRUCTION

INSTALLATION

ELECTRICAL

CERTIFICATIONS

ORDERING GUIDE

VEGETATIVE TURF ESTABLISHMENT PROCEDURE

SCARIFY ALL AREAS TO BE TOPSOILED AND SEEDED. APPLY A MINIMUM OF 4 INCHES OF TOPSOIL ON ALL AREAS TO BE SEEDED. APPLY GRASS SEED, LIME, FERTILIZER AND MULCH ACCORDING TO THE FOLLOWING SCHEDULE:

PERMANENT SEED MIXTURE:

CREEPING RED FESCUE 2.4 LBS. PER 1,000 SQ. FT.

REDTOP 0.2

TALL FESCUE 2.4

TOTAL 5.0

FERTILIZER:

10-10-10 APPLY AT 7.5 LBS. PER 1,000 SQ. FT.

LIMESTONE:

APPLY AT 150 LBS. PER 1,000 SQ. FT.

MULCHING:

SPREAD HAY OR STRAW OVER ALL AREAS AFTER SEEDING. USE 1 1/2 TO 2 BALES PER 1,000 SQ. FT.

TARGET FOR 100% COVERAGE. ANCHOR BY USING NETTING OR TRACKING AS NECESSARY.

SEEDING DATES:

SEEDING DATES IN CONNECTICUT ARE NORMALLY APRIL 1 THROUGH JUNE 15 AND AUGUST 15 THROUGH OCTOBER 1.

SEED GERMINATION NORMALLY CANNOT BE EXPECTED FROM NOVEMBER THROUGH FEBRUARY. IF ADEQUATE SEED GERMINATION IS NOT POSSIBLE DUE TO TIME OF YEAR CONSTRAINTS, MULCHING SHALL BE ADEQUATELY PROVIDED TO PROTECT THE SEED FROM WIND AND SURFACE EROSION UNTIL THE WEATHER IMPROVES AND THE SEEDING BECOMES WELL ESTABLISHED.

NO. DATE REVISIONS

1 03/27/2023 STAFF COMMENTS

2 06/14/2023 STAFF COMMENTS

3 07/03/2023 WATER & SEWER CONNECTION

4 07/12/2023 TOWN PLANNER COMMENTS

5 07/20/2023 STAFF COMMENTS

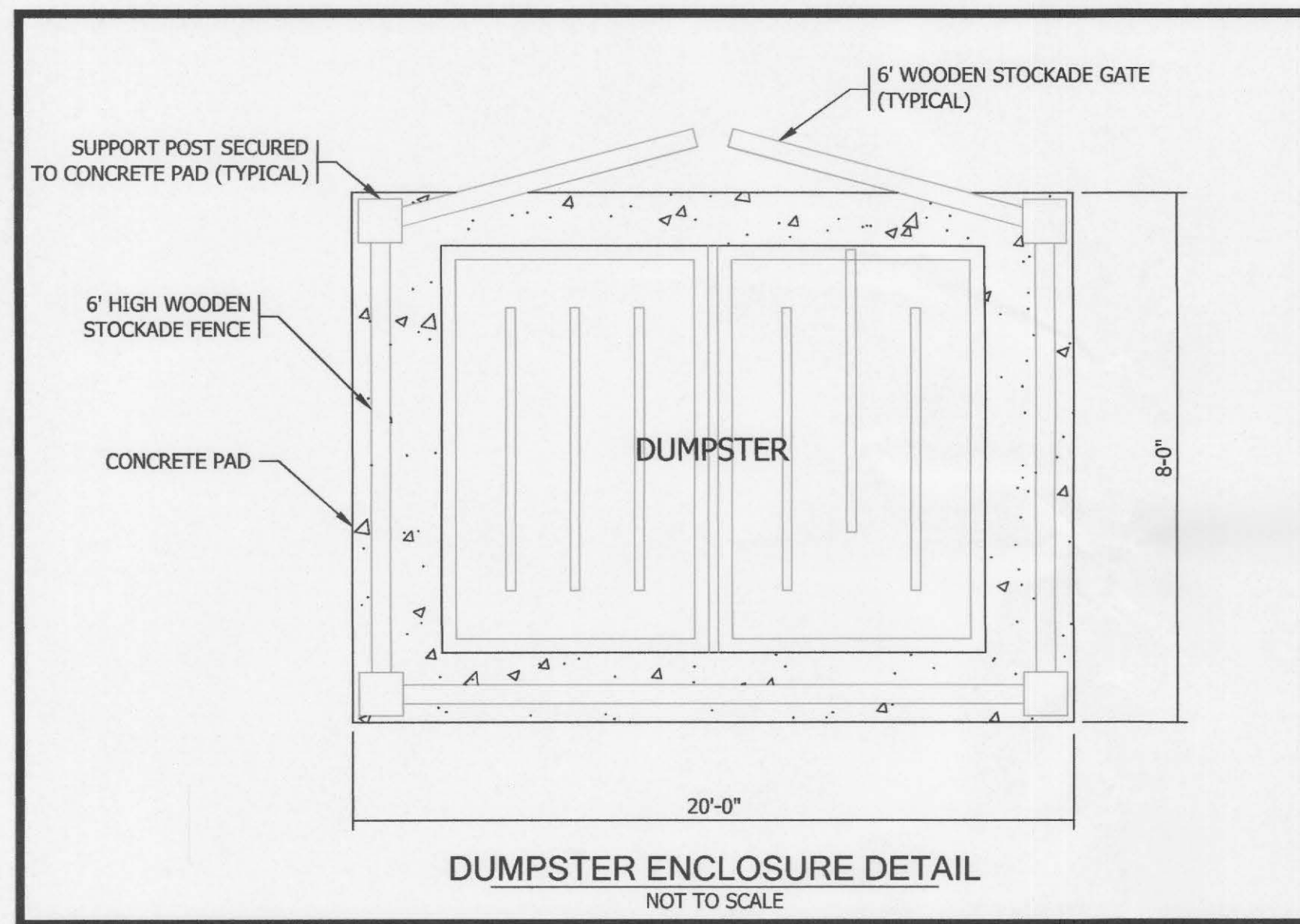
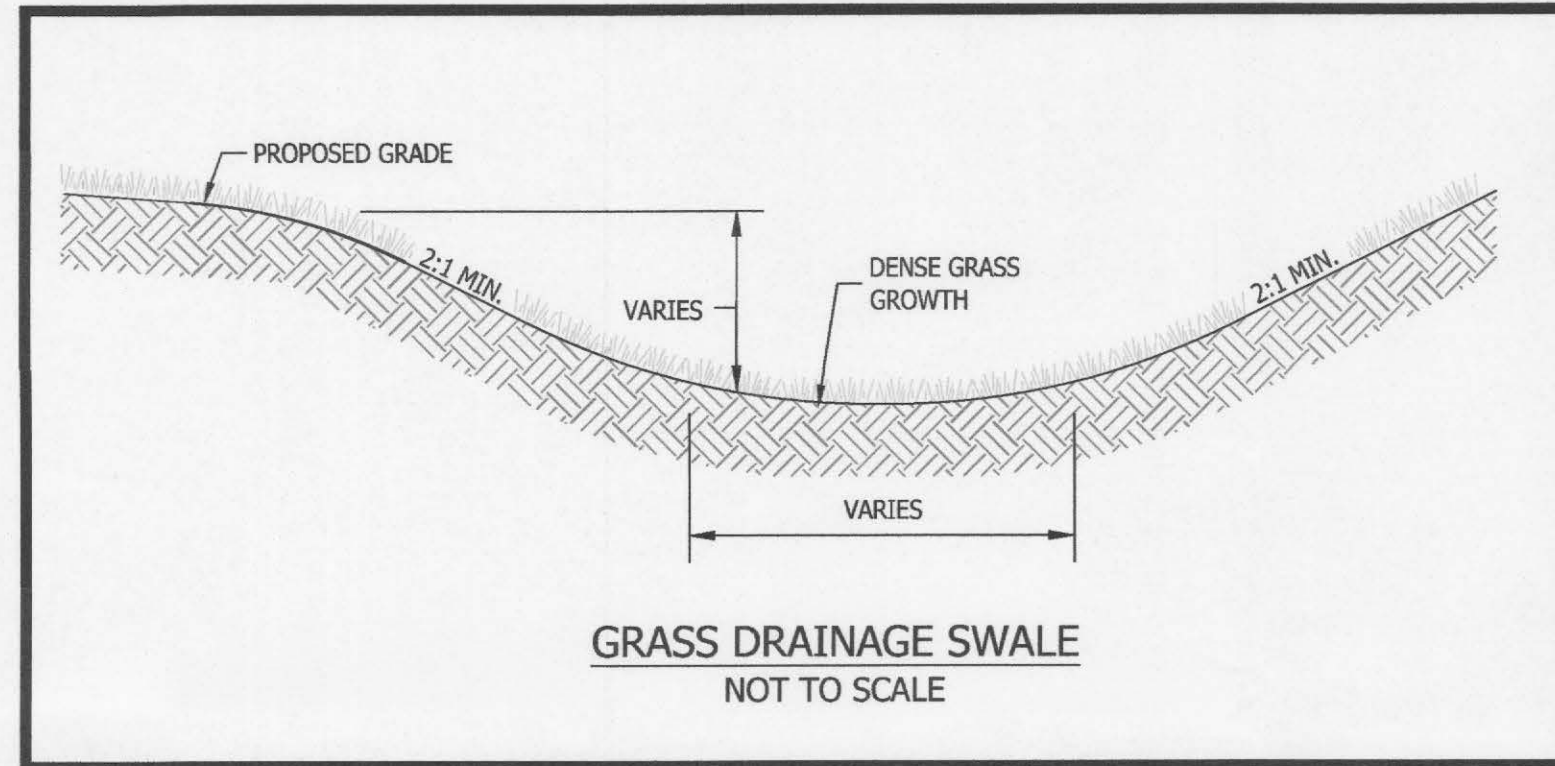
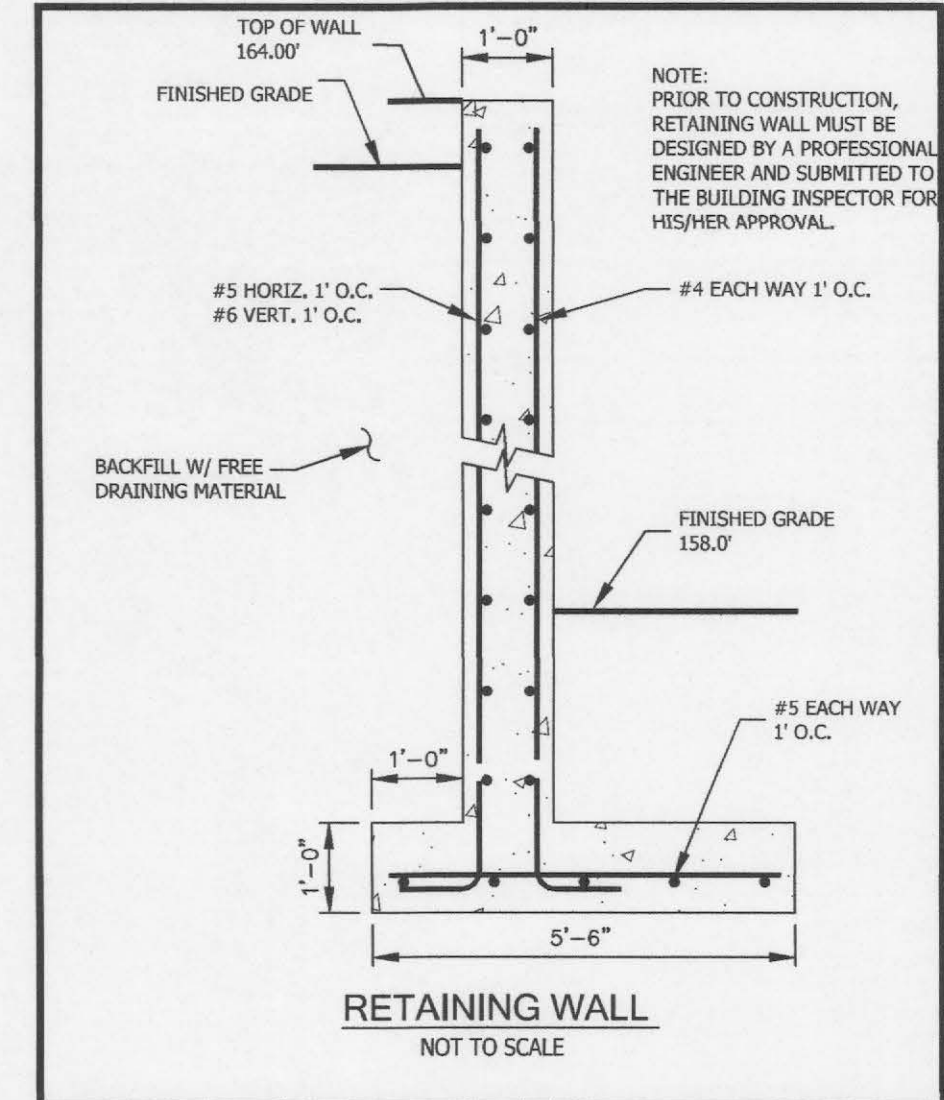
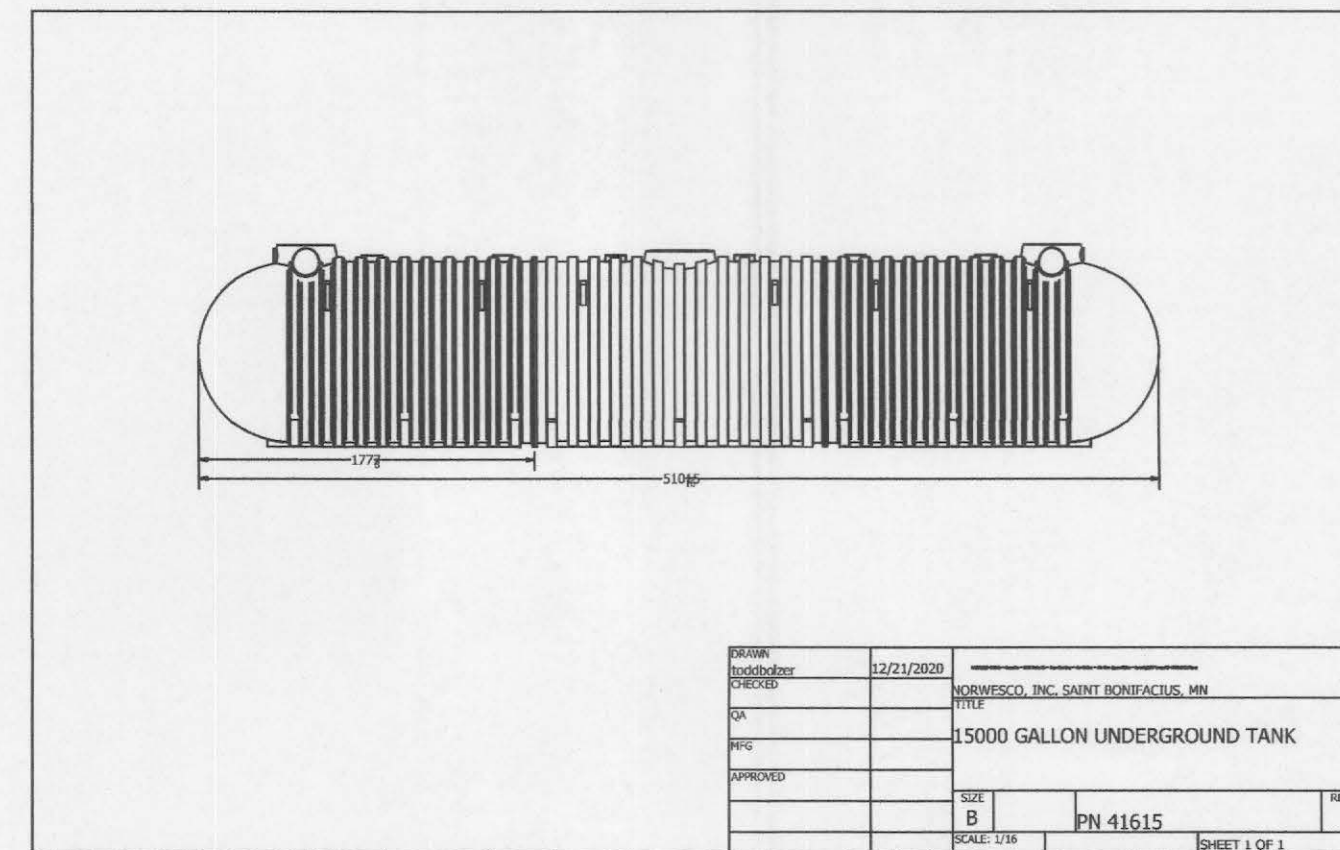
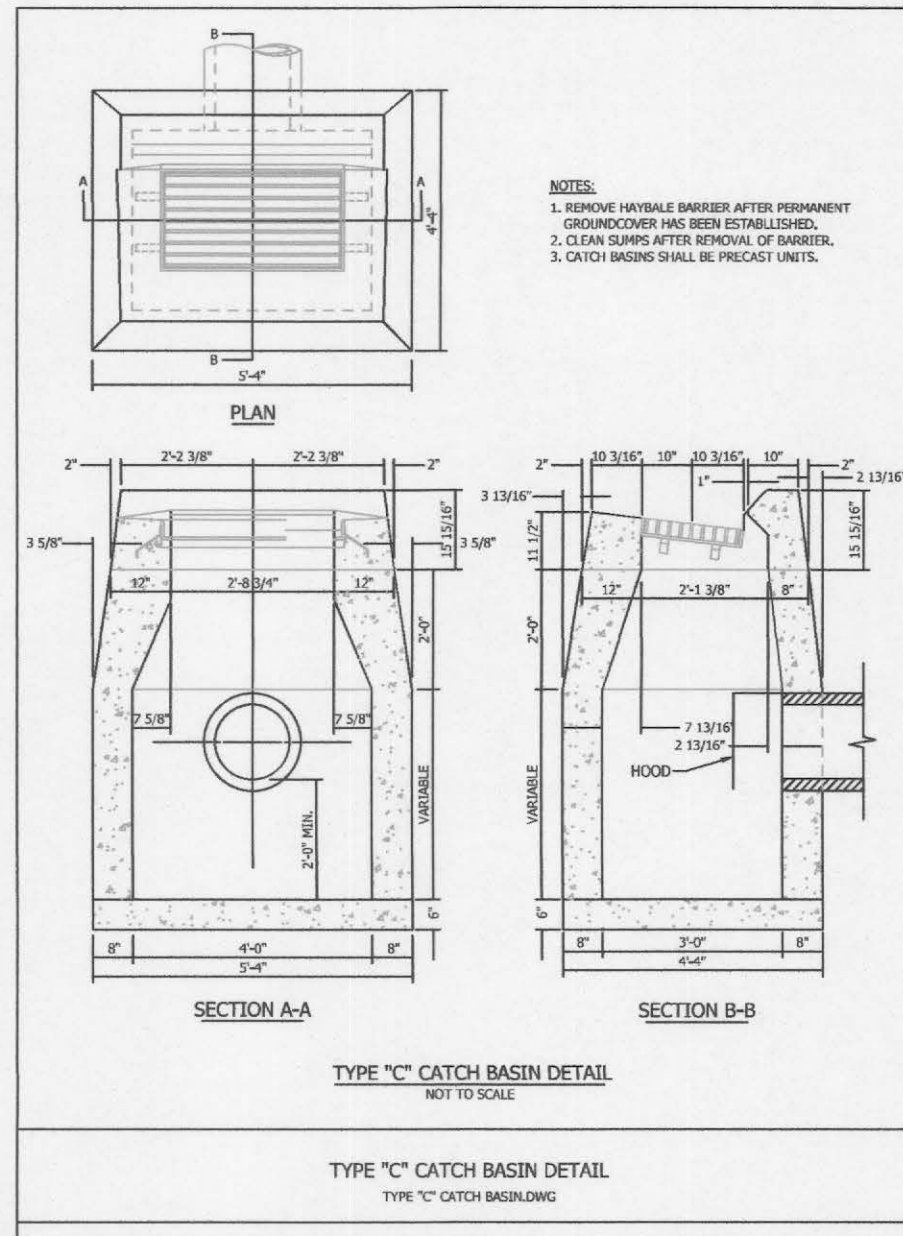
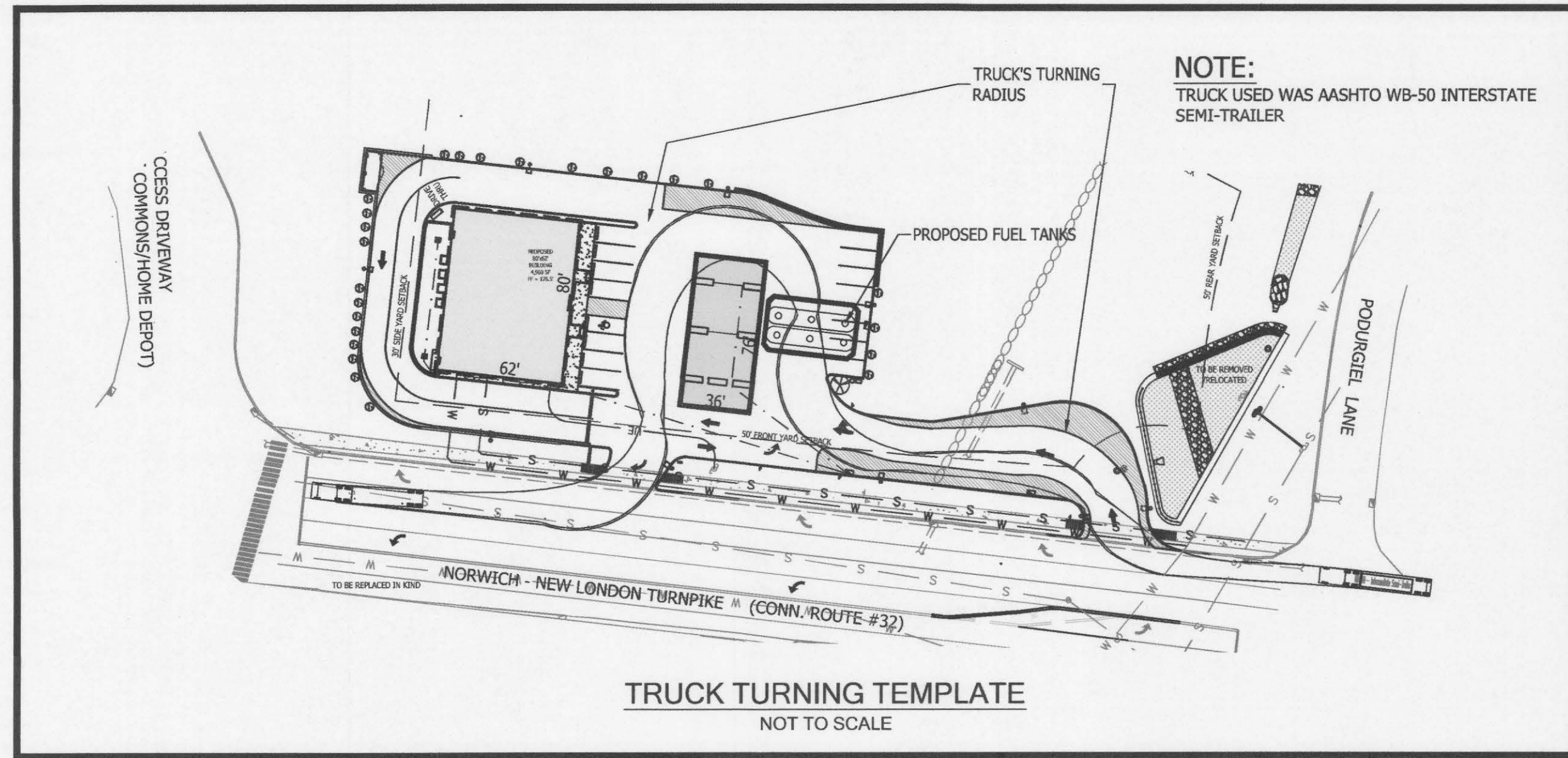
LANDSCAPING & LIGHTING PLAN  
of  
2040 New London Turnpike  
(AKA CT RT 32)  
Uncasville, Connecticut  
Prepared For:  
AMER CHOUDREY  
February 7, 2023

DRAWING SCALE: 1"=30'

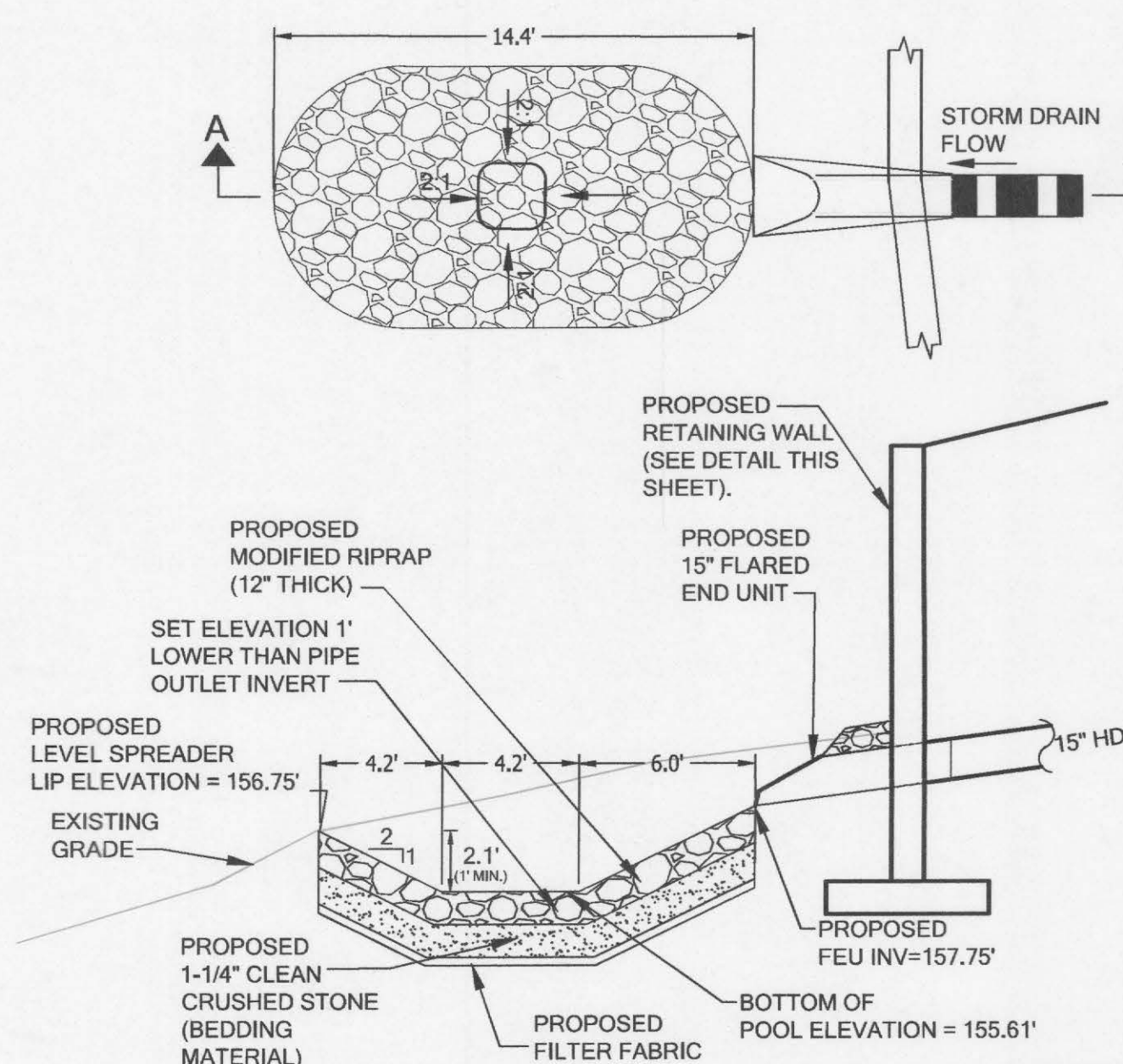
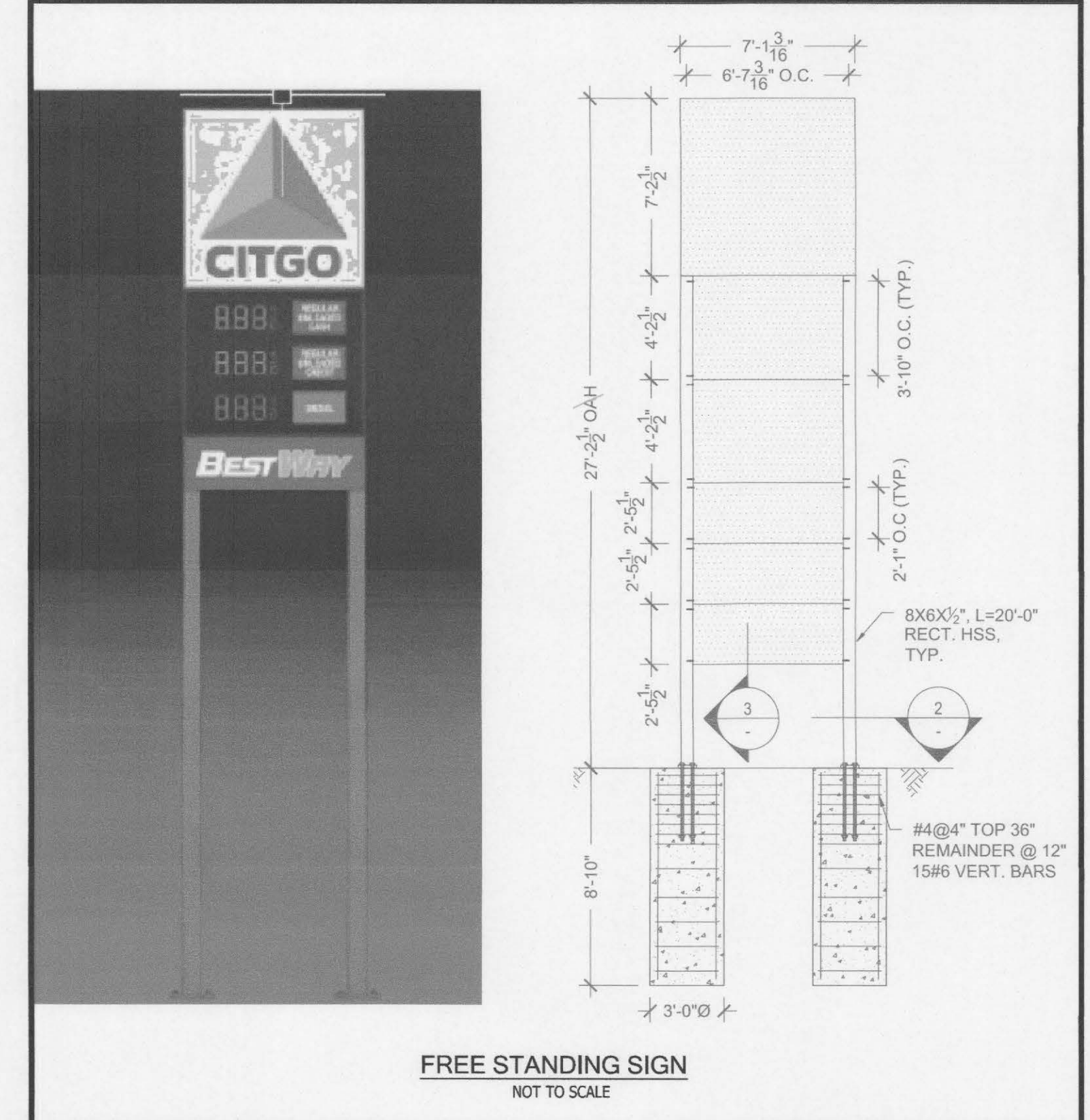
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SHEET NO. 6 OF 8 JOB NO. 21-001048 DRAWN BY: DC





- HYDROWORKS HYDROSTORM**
  - THE HYDRODOME SEPARATOR SHOULD BE INSPECTED EVERY FOUR WEEKS AND AFTER EVERY LARGE STORM (OVER 0.5" (12.5 MM) OF RAIN) DURING THE CONSTRUCTION PERIOD.
  - INSPECT AT LEAST TWICE A YEAR.
  - THE MAINTENANCE FOR SEDIMENT ACCUMULATION IS REQUIRED IF THE DEPTH OF SEDIMENT IS 1FT OR GREATER IN SEPARATORS WITH STANDARD WATER (SUMP) DEPTHS.
  - LOOK FOR OBSTRUCTIONS IN INLETS.
  - CLEAN ANY FLOATING DEBRIS IN THE SEPARATOR DURING THE INSPECTION.
  - LOOK FOR ANY CRACKING OR DEFICIENCIES IN THE CONCRETE.
- DETENTION BASIN**
  - MAKE SURE BASIN SURFACE IS CLEAR OF TRASH AND DEBRIS.
  - MOWING PERFORMED WHEN NECESSARY.
  - CHECK IF THERE IS EVIDENCE OF VEGETATION EROSION AND THAT VEGETATION COVERAGE IS ADEQUATE. IF NOT REPLACE VEGETATION.
  - MAKE SURE THAT DRAINAGE TIMES DO NOT EXCEED 36 TO 48 HOURS.
  - FIRST FEW MONTHS AFTER CONSTRUCTION CHECK FOR EROSION AFTER MAJOR STORMS.
  - MAKE SURE OUTLET IS CLEAR OF DEBRIS.
  - MAKE SURE OVERFLOW SPILLWAY/EMERGENCY SPILLWAY IS CLEAR OF DEBRIS.
  - IF FILTER FABRIC IS EXPOSED/RIPPED REPLACE.
  - INSPECT AT LEAST TWICE A YEAR.
  - BASIN MOWED AND CLIPPINGS REMOVED.
- CATCH BASIN**
  - CLEAN AT LEAST ANNUALLY, AFTER THE SNOW AND ICE REMOVAL SEASON IS OVER AND AS SOON AS POSSIBLE BEFORE SPRING RAINFALL EVENTS.
  - IF A CATCH BASIN SIGNIFICANTLY EXCEEDS THIS ONE-HALF DEPTH STANDARD DURING THE ANNUAL INSPECTION, THEN IT SHOULD BE CLEANED MORE FREQUENTLY.



**Specifications**

- Hydroworks shall be responsible for the 2023 MDEP Laboratory approval and 2023 PPE (Personal Protective Equipment) approval and 2023 PPE (Personal Protective Equipment) approval and 2023 PPE (Personal Protective Equipment) approval.
- Any testing performed by the manufacturer is acceptable for the manufacturer's use only.
- Field testing is required, and the manufacturer shall be responsible for the testing and the results of the testing. The manufacturer shall be responsible for the testing and the results of the testing.
- The separator must be designed based on the following criteria:

Flow Criteria	Water Quality (Low Flow - 0.5 CFS)	Peak Flow (Peak Flow - 10 CFS)
Flow Criteria	NA	NA
Water Quality (Low Flow - 0.5 CFS)	NA	NA
Peak Flow (Peak Flow - 10 CFS)	NA	NA

**Hydroworks HydroStorm**

PROJECT: 2040 ROUTE 32

LOCATION: 2040 ROUTE 32, UNCASVILLE

REVISION DATE: 12/21/2022

**SOIL EROSION AND SEDIMENT CONTROLS**

ALL ADJACENT PROPERTIES AND RECEIVING WATERCOURSES AND / OR WETLAND AREAS SHALL BE ADEQUATELY PROTECTED FROM SOIL EROSION AND SEDIMENTATION BOTH DURING AND AFTER CONSTRUCTION.

ALL CONSTRUCTION SITE RUNOFF SHALL BE ROUTED INTERNALLY TO STORMWATER MANAGEMENT AREA. SEDIMENT SHALL BE MONITORED, MAINTAINED AND REMOVED AFTER EACH STORM EVENT IN EXCESS OF 1" OF RAINFALL OR WHEN THE CAPACITY EXCEEDS 50% OF THE STORAGE VOLUME. EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER ALL RAINFALL EVENTS. E & S CONTROLS SHALL BE REPAIRED OR REPLACED AS NECESSARY WITHIN 24 HOURS THROUGHOUT THE CONSTRUCTION DURATION.

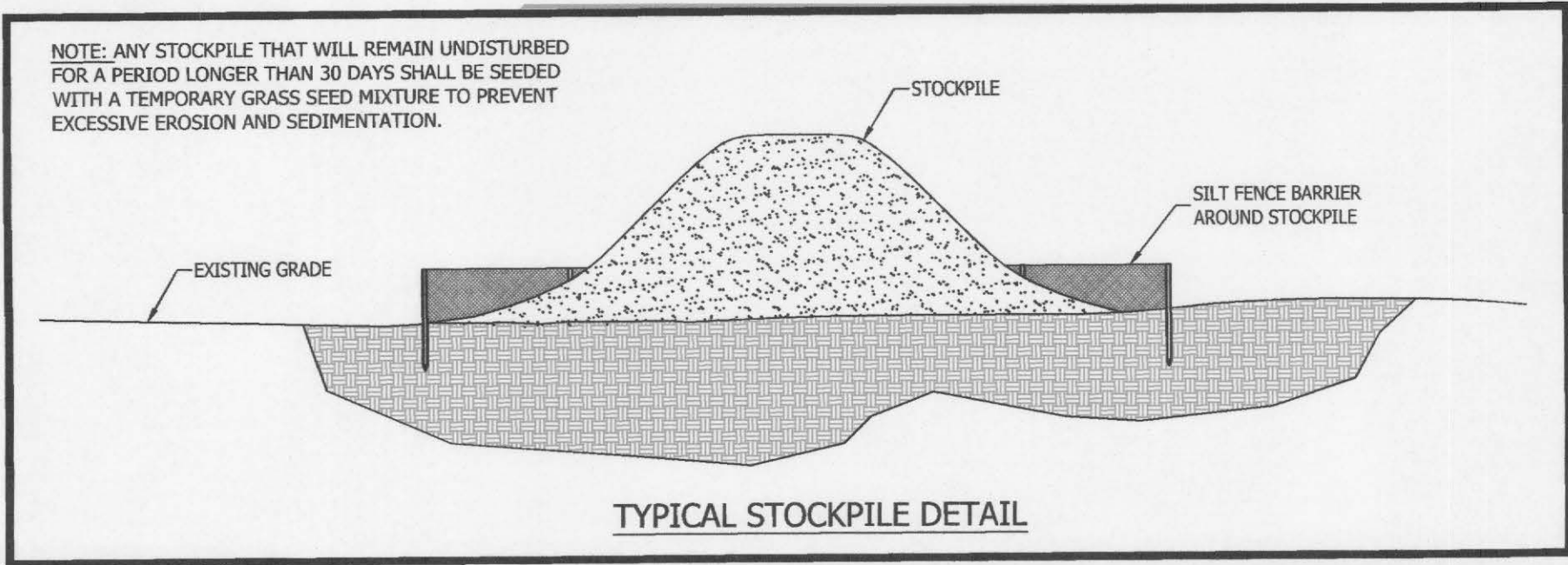
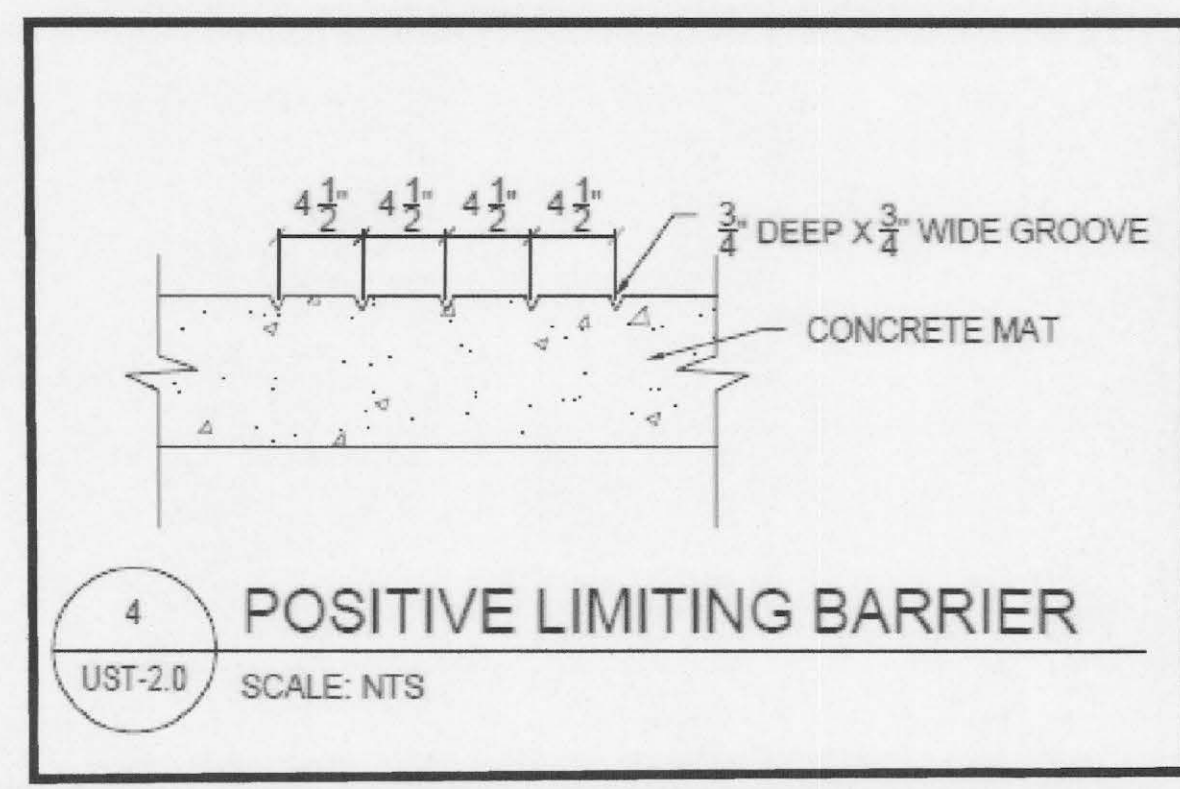
ADDITIONAL EROSION AND SEDIMENT CONTROLS MAY BE REQUIRED BY THE TOWN AND SHALL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROLS BEFORE, DURING AND AFTER CONSTRUCTION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE PROPER REMOVAL AND DISPOSAL OF ALL EROSION AND SEDIMENT CONTROLS ONCE THE SITE IS COMPLETELY STABILIZED.

ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED WEEKLY AND AFTER ALL RAINFALL EVENTS. E & S CONTROLS SHALL BE REPAIRED OR REPLACED AS NECESSARY WITHIN 24 HOURS THROUGHOUT THE CONSTRUCTION DURATION.

ALL ACCUMULATED SEDIMENTS AT ALL EROSION AND SEDIMENT CONTROLS SHALL BE PERIODICALLY REMOVED AND SPREAD IN AREAS THAT ARE NOT SUBJECT TO EROSION.

THE PERMITTEE SHALL EMPLOY BEST MANAGEMENT PRACTICES, CONSISTENT WITH THE TERMS AND CONDITIONS OF THE INLAND WETLANDS PERMIT, TO CONTROL STORMWATER DISCHARGES AND TO PREVENT EROSION AND SEDIMENTATION AND TO OTHERWISE PREVENT POLLUTION OF WETLANDS OR WATERCOURSES. THE PERMITTEE SHALL IMMEDIATELY INFORM THE TOWN WETLANDS OFFICER OF ANY PROBLEMS INVOLVING WETLANDS OR WATERCOURSES THAT HAVE DEVELOPED IN THE COURSE OF, OR THAT ARE CAUSED BY, THE AUTHORIZED WORK.

THE RESPONSIBLE CONTACT PERSON FOR THE INSTALLATION AND MAINTENANCE OR EROSION AND SEDIMENTATION CONTROLS ON THIS PROJECT WILL BE THE SITE CONTRACTOR. THE CONTACT INFORMATION FOR THE CONTRACTOR WILL BE MADE AVAILABLE TO THE TOWN AS SOON AS IT IS AVAILABLE.



NO.	DATE	REVISIONS
1	03/27/2023	STAFF COMMENTS
2	06/14/2023	STAFF COMMENTS
3	07/03/2023	WATER & SEWER CONNECTION
4	07/12/2023	TOWN PLANNER COMMENTS
5	07/20/2023	STAFF COMMENTS

**Detail of**  
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**Uncasville, Connecticut**  
Prepared For:  
**AMER CHOUDREY**  
February 7, 2023

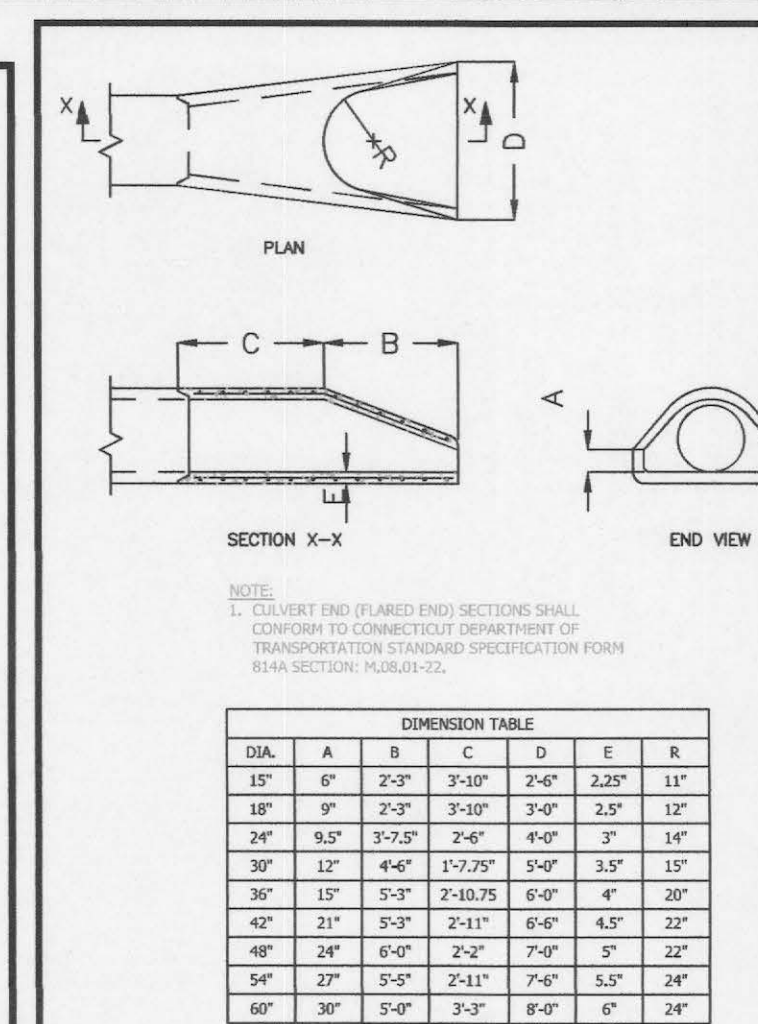
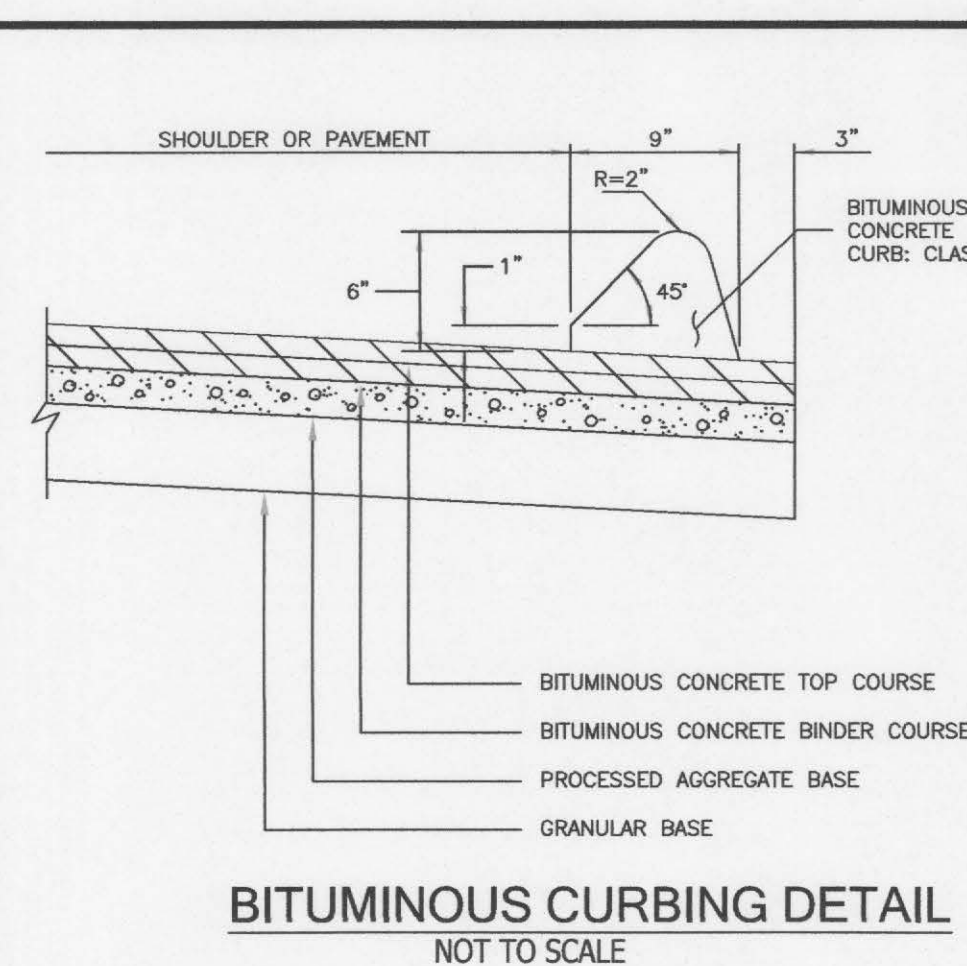
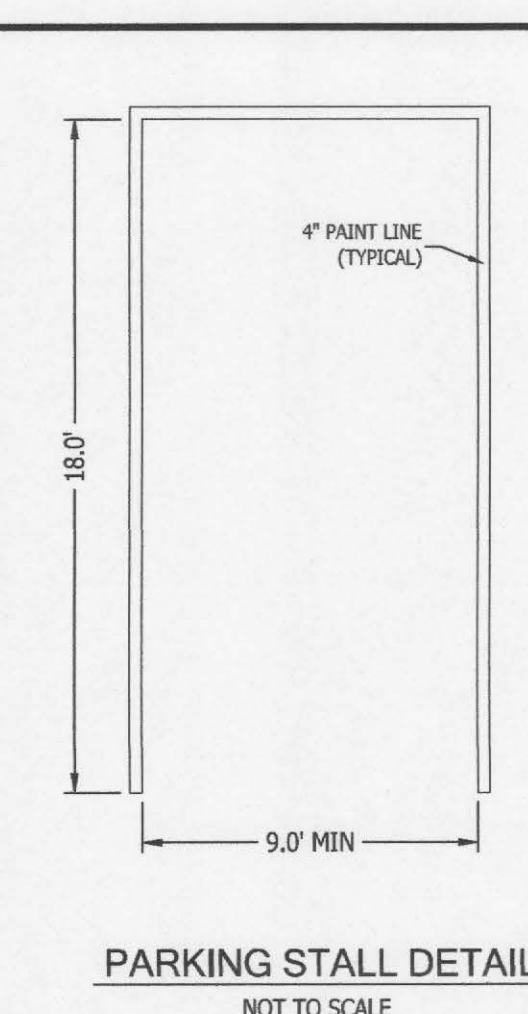
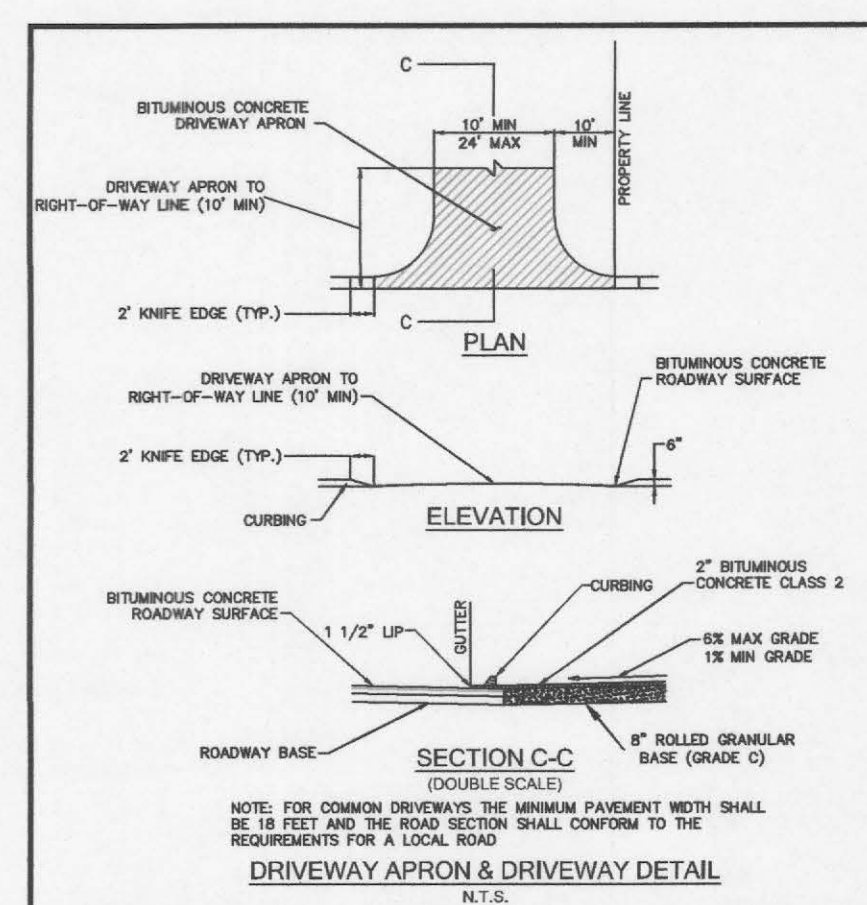
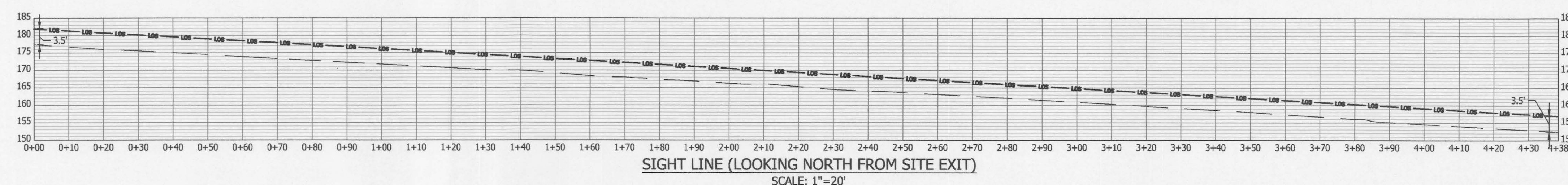
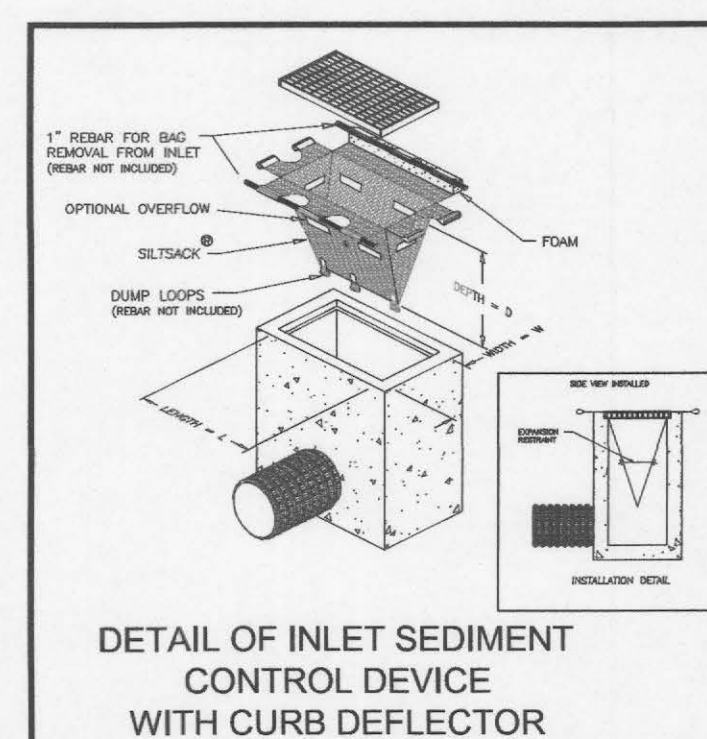
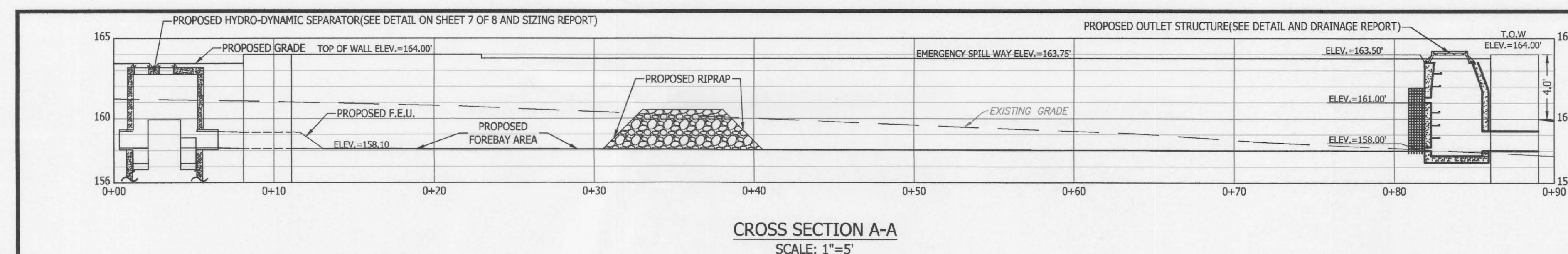
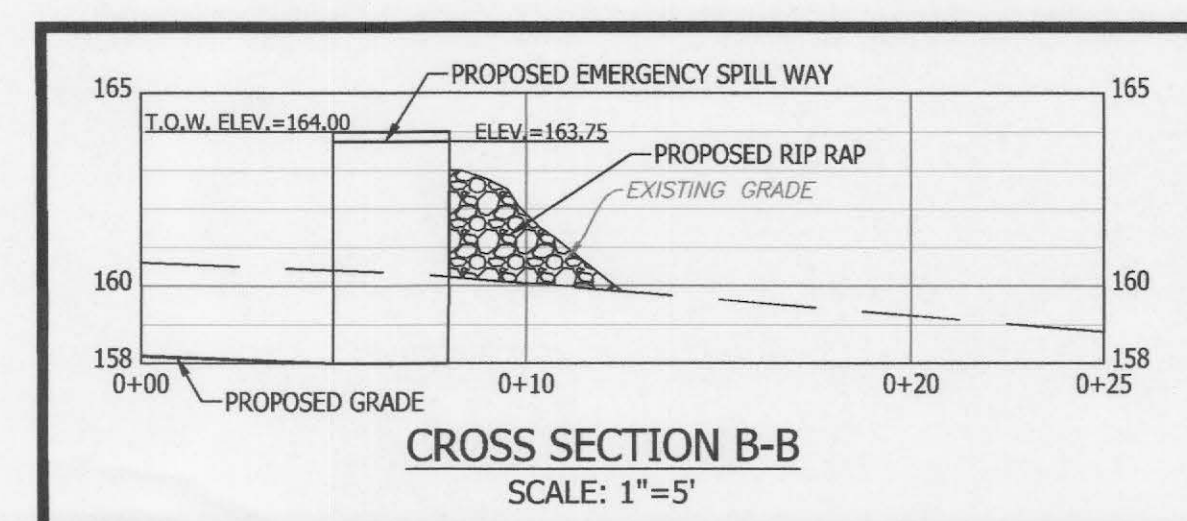
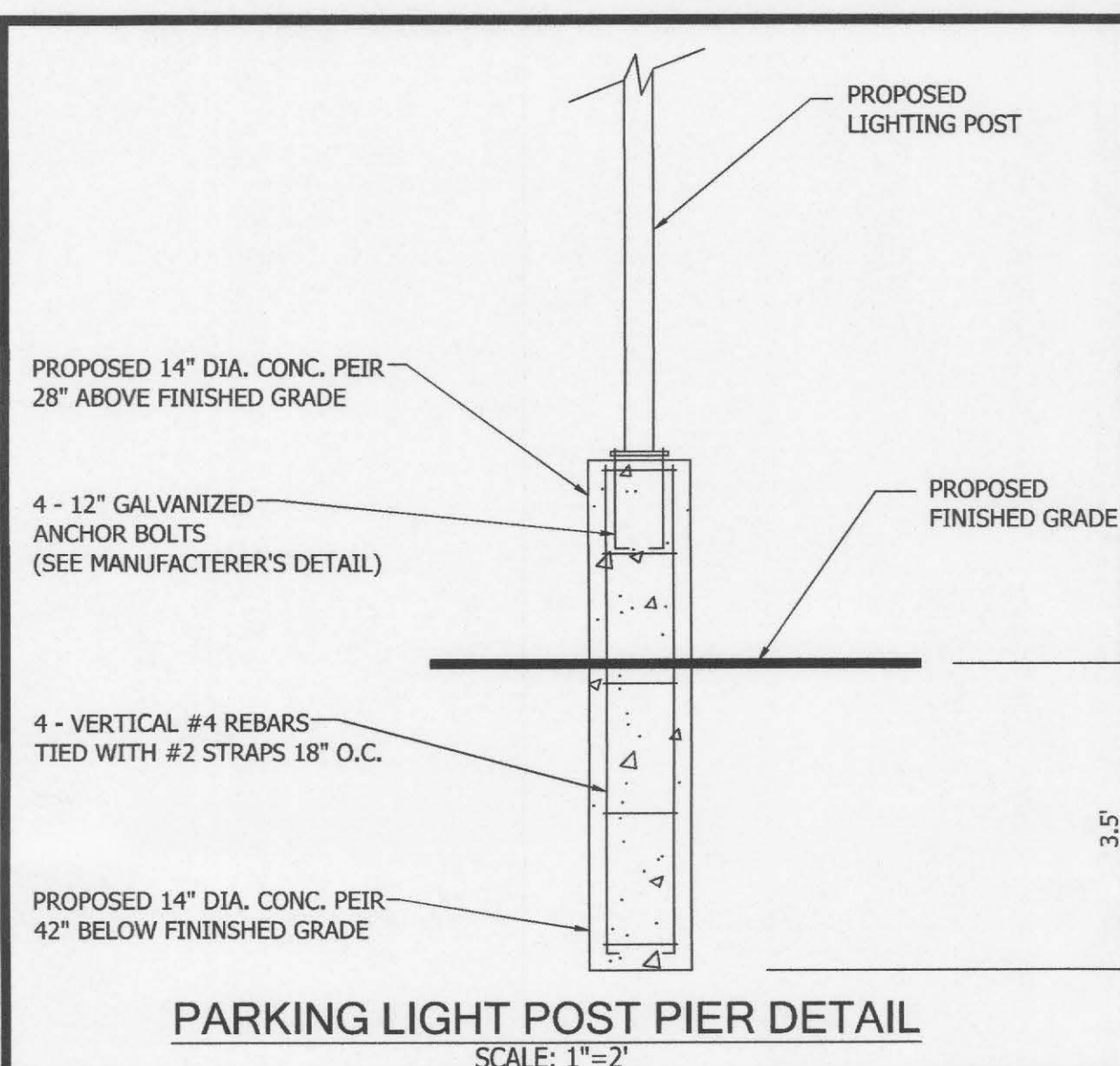
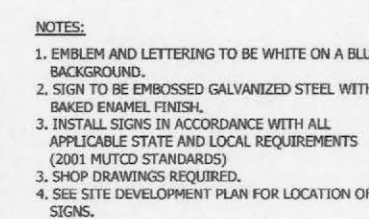
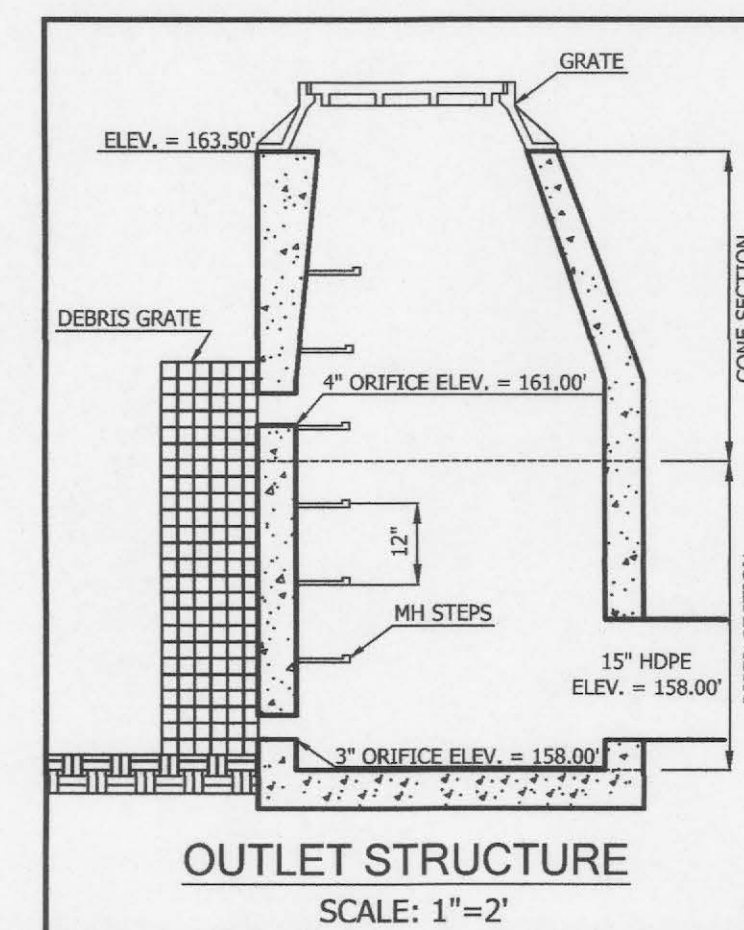
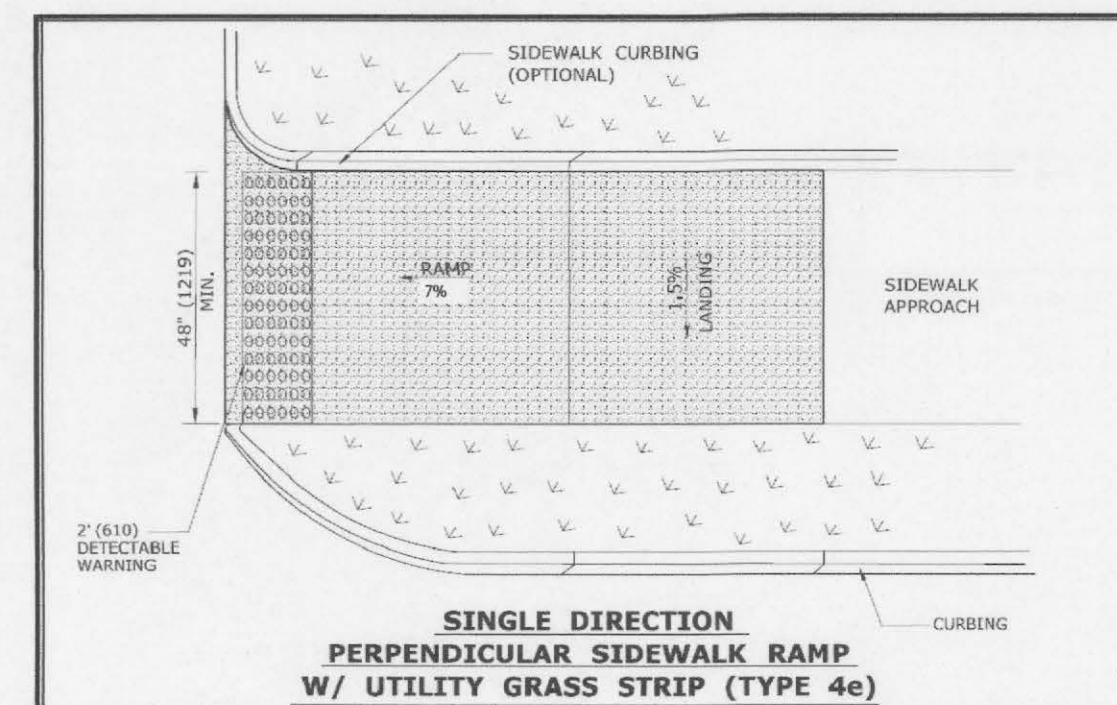
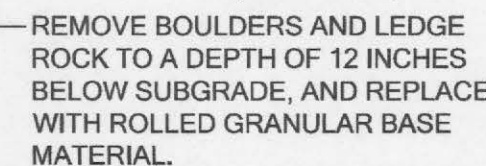
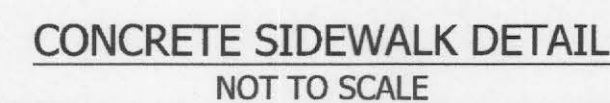
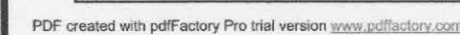
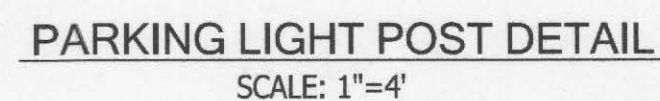
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Gregg T. Fedus P.E.  
CT. License No. 21231

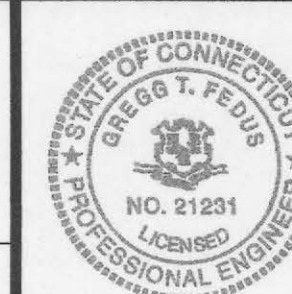
SHEET NO. 7 OF 8 JOB NO. 21-001048 DRAWN BY: DC



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Detail  
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AMER CHOUDREY  
February 7, 2023

DRAWING SCALE: AS SHOWN



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SHEET NO. 8 OF 8	JOB NO. 21-001048	DRAWN BY:
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