

GRADING, DRAINAGE, AND UTILITIES NOTES

GRADING GENERAL NOTES:

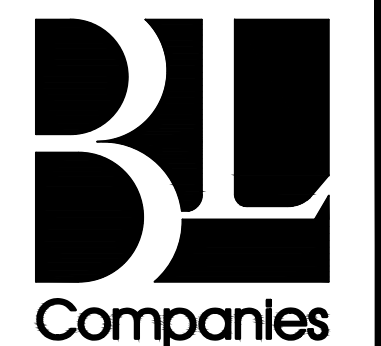
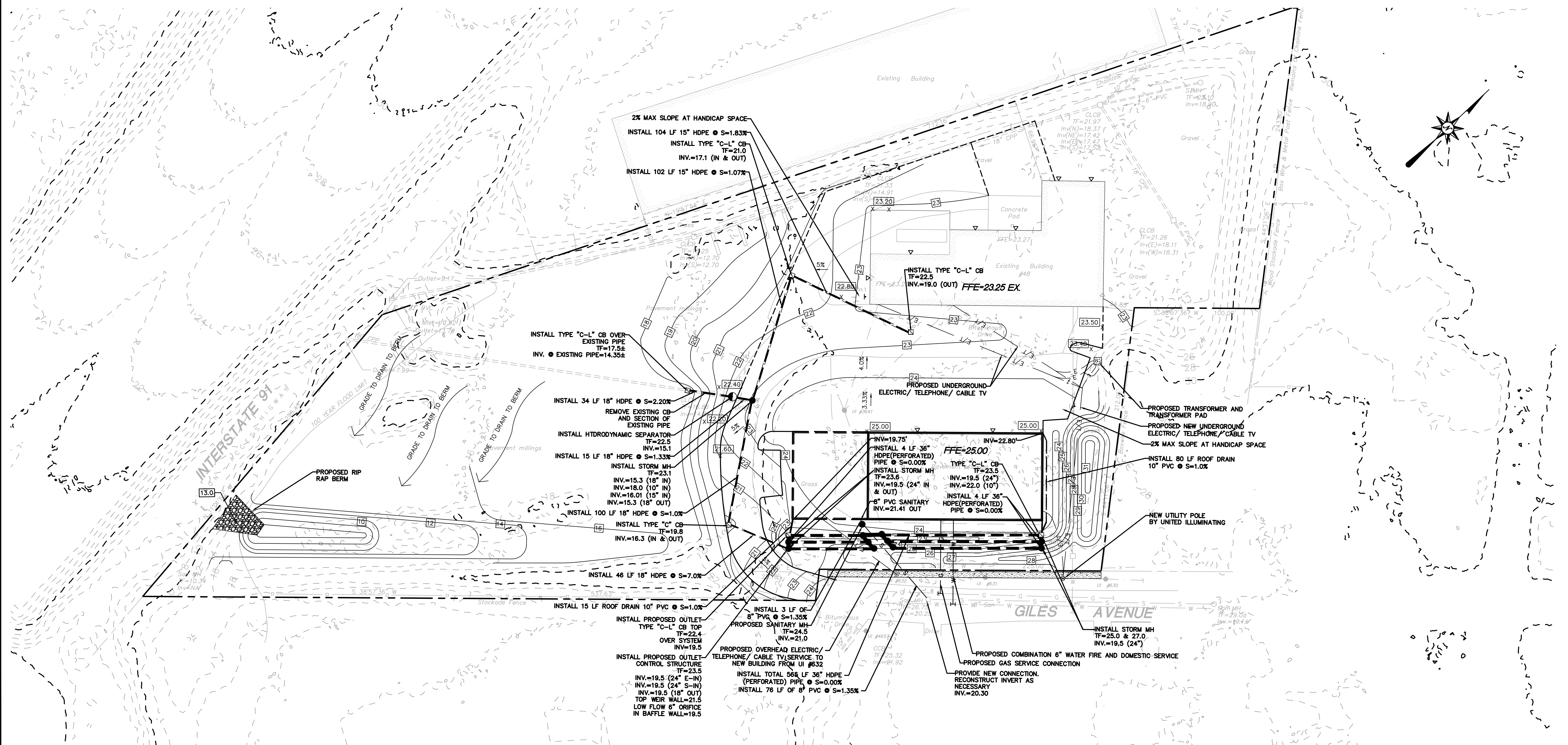
- SEE SITE PLAN FOR ADDITIONAL GENERAL NOTES.
- THIS DRAWING IS INTENDED TO DESCRIBE GRADING, DRAINAGE, AND UTILITIES ONLY. REFER TO SITE PLAN FOR GENERAL INFORMATION, AND DETAIL SHEETS FOR DETAILS. SEE MEP DRAWINGS FOR BUILDING CONNECTION LOCATIONS AND DETAILS.
- THE CONTRACTOR SHALL PRESERVE EXISTING VEGETATION WHERE POSSIBLE AND/OR AS NOTED ON DRAWINGS. REFER TO EROSION CONTROL PLAN FOR LIMIT OF DISTURBANCE AND NOTES.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED BY GOVERNMENT AND LOCAL AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE LOCAL MUNICIPALITIES REQUIRED TO PERFORM ALL REQUIRED WORK, INCLUDING FOR STREET CUTS AND CONNECTIONS TO EXISTING UTILITIES. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF VEHICLES AND PEDESTRIANS CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS FENCES AND UNIFORMED TRAFFIC CONTROLLERS AS REQUIRED, ORDERED BY THE ENGINEER OR REQUIRED BY THE STATE AND LOCAL GOVERNING AUTHORITIES.
- VERTICAL DATUM IS NGVD 29. HORIZONTAL DATUM IS NAD 27
- THE CONTRACTOR SHALL STRICTLY ADHERE TO THE "EROSION CONTROL PLAN" CONTAINED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE TO POST ALL BONDS AS REQUIRED BY THE LOCAL MUNICIPALITIES, OR SOIL CONSERVATION SERVICE WHICH WOULD GUARANTEE THE PROPER IMPLEMENTATION OF THE PLAN.
- THERE WILL BE NO FLOOR DRAINS INSTALLED IN THE PROPOSED BUILDING.

PRODUCT NOTES:

- SHOP DRAWINGS: THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF MATERIALS AND STRUCTURES FOR REVIEW AND APPROVAL PRIOR TO DELIVERY TO THE SITE. ALLOW 14 WORKING DAYS FOR REVIEW.
- POLY VINYL CHLORIDE PIPE (PVC) FOR STORM AND SANITARY PIPING SHALL HAVE BUILT-IN RUBBER GASKET JOINTS. PVC SHALL CONFORM TO ASTM D-3034 (SDR35) WITH COMPRESSION JOINTS AND MOLDED FITTINGS. PVC SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS; ASTM-D2321 AND MANUFACTURERS RECOMMENDED PROCEDURE.
- ALL RCP SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-76; ALL RCP SHALL BE CLASS IV UNLESS OTHERWISE SHOWN. JOINTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C-443.
- MANHOLE SECTIONS AND CONSTRUCTION SHALL CONFORM TO ASTM C-478.
- HIGH DENSITY POLYETHYLENE (HDPE) STORM SEWER 12" OR GREATER IN DIAMETER SHALL BE HI-Q SURE-LOK 10.8 PIPE AS MANUFACTURED BY HANCOX INC. OR APPROVED EQUAL. HDPE PIPE SHALL HAVE SMOOTH INTERIOR AND CORRUGATED EXTERIOR AND SHALL MEET THE REQUIREMENTS OF AASHTO M294, TYPE S. PIPE SECTIONS SHALL BE JOINED WITH BELL-AND-SPIGOT JOINT MEETING THE REQUIREMENTS OF AASHTO M294. THE BELL SHALL BE AN INTEGRAL PART OF THE PIPE AND PROVIDE A MINIMUM PULL-APART STRENGTH OF 400 POUNDS. THE JOINT SHALL BE WATER-TIGHT ACCORDING TO THE REQUIREMENTS OF ASTM D3212. GASKETS SHALL BE MADE OF POLYISOPRENE MEETING THE REQUIREMENTS OF ASTM F477. ALTERNATIVE HDPE PIPE MAY BE USED IF APPROVED BY THE ENGINEER AND CONSTRUCTION MANAGER PRIOR TO ORDERING.
- HIGH DENSITY POLYETHYLENE (HDPE) STORM SEWER LESS THAN 12" IN DIAMETER SHALL BE HI-Q PIPE AS MANUFACTURED BY HANCOX INC. OR APPROVED EQUAL. HDPE PIPE SHALL HAVE SMOOTH INTERIOR AND CORRUGATED EXTERIOR AND SHALL MEET THE REQUIREMENTS OF AASHTO 252, TYPE S. PIPE SECTIONS SHALL BE JOINED WITH COUPLING BANDS OR EXTERNAL SNAP COUPLERS COVERING AT LEAST 2 FULL CORRUGATIONS ON EACH END OF THE PIPE. SILT-TIGHT (GASKET) CONNECTIONS SHALL INCORPORATE A CLOSED SYNTHETIC EXPANDED RUBBER GASKET, MEETING THE REQUIREMENTS OF AASHTO D1056 GRADE 2A2. GASKETS SHALL BE INSTALLED ON THE CONNECTION BY THE PIPE MANUFACTURER. ALTERNATIVE HDPE PIPE MAY BE USED IF APPROVED BY THE ENGINEER AND CONSTRUCTION MANAGER PRIOR TO ORDERING.
- COPPER PIPE SHALL BE TYPE K TUBING WITH COMPRESSION FITTINGS.
- GAS PIPE MATERIAL SHALL BE PER GAS COMPANY REQUIREMENTS.
- DUCTILE IRON PIPE SHALL CONFORM TO AWWA C151 FOR CLASS 52 WITH CEMENT LINING IN ACCORDANCE WITH ANSI A21.4 FOR WATERMANS AND SERVICES 3" ID AND LARGER. JOINTS SHALL BE MADE WITH CONCRETE THRUST BLOCKS OR WITH METALLIC RETAINER GLANDS OR WITH ROODING IN ACCORDANCE WITH PROJECT MANUAL SPECIFICATIONS AND IN ACCORDANCE WITH WATER UTILITY PROVIDER REQUIREMENTS TO EXTEND A MINIMUM OF 2 PIPE LENGTHS IN EITHER DIRECTION FROM FITTINGS AND ELBOWS (40 FT MINIMUM). ALL OTHER JOINTS SHALL BE PUSH ON WITH RUBBER GASKETS (TYTON). USE OF OTHER TYPES OF RETAINER GLANDS SHALL REQUIRE USE WITH CLASS 53 OR GREATER DUCTILE IRON PIPE. DUCTILE IRON STORM PIPE SHALL BE PUSH ON JOINT WITH RUBBER GASKET.

SITE UTILITY LEGEND

ELEC/TELE/CATV LINE	— ETC — ETC —
GAS LINE	— G — G —
OVERHEAD LINE	— OH — OH —
WATER LINE	— W — W —
SANITARY SEWER LINE	— S —
SANITARY FORCE MAIN	— SFM —
STORM LINE	—
CATCH BASIN	☐
STORM MANHOLE	○
SANITARY MANHOLE	●
ELECTRIC MANHOLE	⊙
HYDRANT	⊕
TRANSFORMER	⊞
UTILITY POLE	⊙



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PROPOSED BUILDING
48 GILES AVENUE
NORTH HAVEN, CONNECTICUT

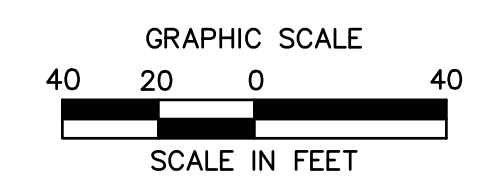
SITE PLAN APPLICATION #P21-29 AND CAM APPLICATION #P21-29A

REVISIONS	No.	Date	Desc.
	1.	11/06/21	RESPONSE TO TOWN COMMENTS
	2.	12/02/21	RESPONSE TO TOWN COMMENTS

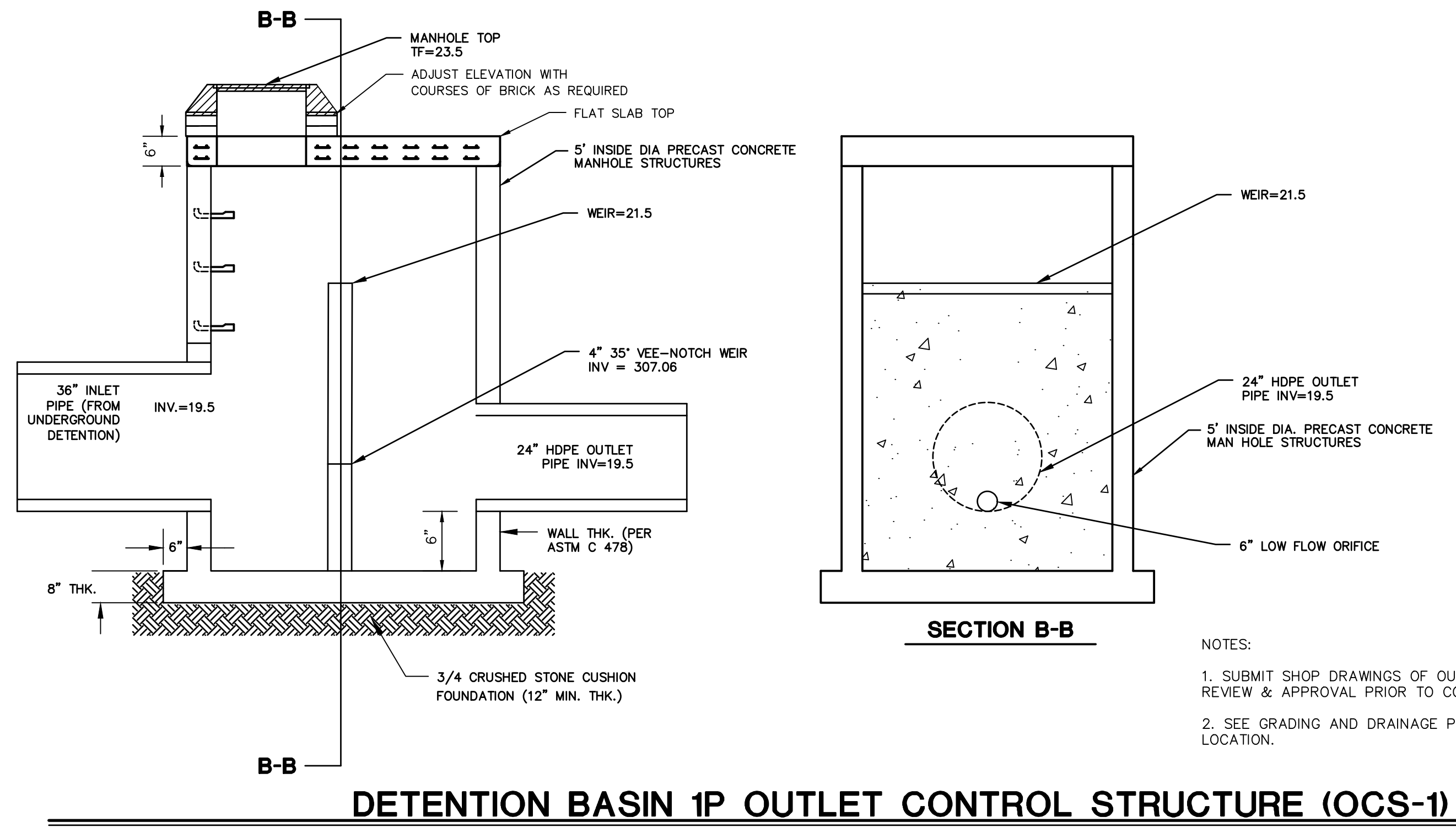
Designed: J.O.M.
Drawn: E.L.R.
Checked:
Approved:
Scale: 1"=40'
Project No.: 07C2352
Date: 10/07/2021
CAD File: GU07C235201

Title: GRADING, DRAINAGE AND UTILITY PLAN
Sheet No. GU-1

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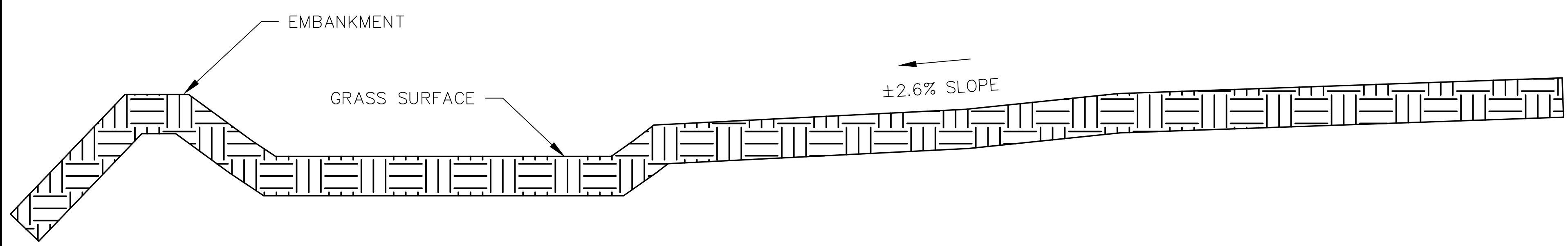
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NOTES:
 1. SUBMIT SHOP DRAWINGS OF OUTLET STRUCTURE TO OWNER FOR REVIEW & APPROVAL PRIOR TO CONSTRUCTION.
 2. SEE GRADING AND DRAINAGE PLANS FOR OUTLET STRUCTURE LOCATION.

DETENTION BASIN 1P OUTLET CONTROL STRUCTURE (OCS-1)

N.T.S.

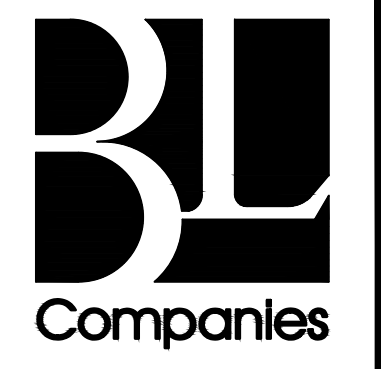


VEGETATED SWALE OVERFLOW CROSS-SECTION

N.T.S.

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NOTES
 1. SEE PLAN SHEET EC-1 FOR ALL EROSION CONTROL DETAILS



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PROPOSED BUILDING
 48 GILES AVENUE
 NORTH HAVEN, CONNECTICUT

REVISIONS

No.	Date	Description
1.	11/09/21	RESPONSE TO TOWN COMMENTS

Designed: J.O.M.
 Drawn: E.L.R.
 Checked:
 Approved:
 Scale: 1"=40'
 Project No.: 07C2352
 Date: 10/07/2021
 CAD File: DN07C235201

Title: **DETAIL SHEET**

Sheet No.

DN-3

SITE PLAN APPLICATION #P21-29 AND CAM APPLICATION #P21-29A

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