STORMWATER POLLUTION CONTROL PLAN

For the proposed:

Renovation of Commuter Parking Lots A-B

1084 Shennecossett Road

Groton, Connecticut

Prepared for:

University of Connecticut Planning Design & Construction

Issued: March 18, 2026
Last revised:

This Stormwater Pollution Control Plan (SWPCP) is prepared to comply with the requirements for the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities ("Construction Stormwater General Permit"). Also to be considered part of the SWPCP are the proposed construction plans, Connecticut Water Quality Manual (latest revision) and the Connecticut Guidelines for Soil Erosion and Sediment Control (latest revision)

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APPENDICES

EXECUTIVE SUMMARY

The University of Connecticut (UCONN) is seeking to redevelop the existing parcel located at 1084 Shennecossett Road within the Town of Groton, New London County, Connecticut by reconstructing the 4 parking lots. The proposed development will include new granite and concrete curbing, bituminous concrete paved parking areas, bio infiltration stormwater treatment basins, and concrete sidewalks.

The subject parcel of land is currently used for student and faculty parking but was formally used by the United States Coast Guard as a training facility.

This Stormwater Pollution Control Plan, the Proposed Development engineering plan documents have been designed to be in general conformance with current version of the Connecticut Guidelines for Soil Erosion and Sediment Control (hereafter referred to as "the Guidelines"), and the current version of the Connecticut Stormwater Quality Manual (hereafter referred to as SWQM)

1.0 SITE DESCRIPTION

SITE DESCRIPTION

This project consists of renovations to an existing parking lot. New curbing, pavement, lighting, EV chargers, and sidewalks will be installed. Four catch basins with associated HDPE piping as well as two bio infiltration areas will be installed for treatment and discharge of stormwater into Long Island Sound.

The purpose of this project is to upgrade the existing parking lot and provide EV capable parking spaces to meet commuter demand.

Site work includes pavement removal, milling, reclaiming, and repaving as well as trenching for electric utility lines, stormwater piping.

ESTIMATED DISTURBED AREA

The total area of disturbance for this project site is 152,934 square feet or 3.51 acres. The existing seawall at the edge of the parking area will not be touched or disturbed in any way.

ESTIMATED RUNOFF COEFFICIENT

The runoff coefficient assumed for pavement is 0.9 and 1.0 for the building's roof. For the pervious areas, a coefficient of 0.3 was assumed.

Pre Construction

$\underline{(0.92 \text{ ac.} \times 0.3)+(2.59 \text{ ac.} \times 0.9)+(0.0 \text{ ac.} \times 1.0)} = 0.74$

$0.92 \text{ ac.} + 2.59 \text{ ac.} + 0.0 \text{ ac.} = 3.51 \text{ ac.}$

Post-Construction

$\underline{(1.17 \text{ ac.} \times 0.3)+(2.34 \text{ ac.} \times 0.9)+(0.0 \text{ ac.} \times 1.0)} = 0.70$

$1.17 \text{ ac.} + 2.34 \text{ ac.} + 0.0 \text{ ac.} = 3.51 \text{ ac.}$

The estimated runoff coefficients, with the corresponding contributing areas located within the Limit of disturbance as shown on the site plans.

RECEIVING WATERS

The receiving water is Long Island Sound.

EXTENT OF WETLANDS ON SITE

There are no inland wetlands within the limits of disturbance.

PERMITS REQUIRED ON SITE

CT DEEP Coastal Review and CT DEEP Stormwater General Permit.

SITE LOCATION FIGURE

2.0 CONSTRUCTION SEQUENCING

The contractor will be given approximately *May 2026-August 2026* the construction of all phases of the project.

The suggested sequence of construction is as follows:

1. Conduct a preconstruction meeting.
2. Install erosion controls at the effected inlets and at limits of disturbed slopes.
3. Demo existing parking lots
4. Install new electrical infrastructure
5. Construct new stormwater bio infiltration areas
6. Construct new catch basins
7. Install new sidewalks and curbing
8. Pave Parking lots
9. Final grading and topsoil placement
10. Install landscape plantings
11. Remove erosion controls when it is determined that disturbed areas have been stabilized. (This determination will be made by the Engineer).
12. All post-construction stormwater structures shall be cleaned of construction sediment and any remaining silt fence shall be removed prior to the filing of the "Notice of Termination Form".
13. Perform project cleanup.

If the construction sequencing activities create an area of disturbance between two (2) acres and five (5) acres per discharge point, the Contractor must submit to the Engineer a revised SWPCP for review and approval. The SWPCP must include locations of the temporary sedimentation trap per discharge point with a capacity to contain 134 cubic yards per acre of material in accordance with the Guidelines. The Contractor shall provide an inspection and maintenance plan for the temporary sedimentation trap as part of the amended SWPCP.

There are two phases of erosion control measures for the proposed development. The first phase proposes the installation of filter socks at existing stormwater inlets, rock construction entrances and silt fence around the proposed area of disturbance prior to the commencement of any earth disturbance activities.

During phase 2 of erosion control sequence, the perimeter measures and rock construction entrances will remain in place. All constructed stormwater inlets will have inlet protection installed. All areas that have achieved final grade will need to be immediately covered with 6" of topsoil, seeded and mulched. Slopes that are 3:1 or greater will need to be covered with erosion control matting prior receiving seed and mulch. All erosion control matting will be wildlife friendly, with all-natural material and no photodegradable content

Any topsoil that is stripped will need to be stockpiled onsite to be used later. Stockpiles will need to receive temporary seeding and have a filter sock around its base to prevent the loss of materials.

Dewater of any trenches and/or basin will need to be completed in a manner that will avoid creating any areas of accelerated erosion.

During construction of this project, all erosion control measures will need to be inspected weekly and following any major rain event. Any repairs to the erosion control BMPs will need to be completed within 24 hours of any major rain event.

See Construction Plans for full Construction Sequence.

3.0 CONTROL MEASURES

EROSION AND SEDIMENTATION CONTROLS

The Owner will have construction inspection personnel assigned to the project to oversee the Contractor's operations to ensure compliance with the provisions of the Guidelines.

The following timelines will be followed for the proposed construction activities:

- If construction activities are complete or have been temporarily halted for more than seven (7) days, stabilization activities will be implemented within three (3) days. *(See chapter 5 of the Guidelines)*
- Areas that remain disturbed but inactive for at least 30 days shall receive temporary seeding or soil protection within seven (7) days.
- Disturbed areas that do not establish a vegetative cover within 30 days of seeding shall have erosion control blankets installed. Prior to the erosion control blanket installation, the soil would be prepared with the application of lime, fertilizer, and seed.
- Areas that will be disturbed past the planting season will be covered with a long-term, non-vegetative stabilization method that will provide protection through the winter.
- Stabilization practices will be implemented as quickly as possible in accordance with the Guidelines.
- The Contractor shall stabilize disturbed areas with temporary or permanent measures as outlined in the guidelines. If an area will not have active construction within 30 days, the contractor shall seed, temporary or permanent, within 7 days.

SOIL STABIZATION AND PROTECTION

TEMPORARY STABILIZATION PRACTICES

- Silt Fence: Silt fence shall be placed at the base of embankment
- Anti-Tracking Pads: Construction entrances (gravel anti-tracking pads) shall be constructed at truck access points to off –road route.
- Dust Control: Routine sweeping and application of dust suppression agents, including water and calcium chloride, over exposed subbase shall be completed for dust control.

Stabilization practices shall be implemented no more than three days after completion, as final grades are reached, or if work has been suspended for more than seven days.

Temporary seeding shall be spread over any disturbed areas which will remain inactive for at least 30 days. Areas to remain disturbed through winter shall be protected with non-vegetative stabilization measures. The Contractor must provide an Erosion and Sedimentation Control plan for each winter season during construction operations.

The Contractor may use other controls in the project as necessary if they conform to the Connecticut Erosion and Sedimentation Guidelines and are approved by the Engineer. The contractor will be required to provide the necessary details for any erosion controls not specifically called for on the project plans.

During construction, all areas disturbed by the construction activity that have not been stabilized, structural control measures, and locations where vehicles enter or exit the site shall be inspected at least once every seven calendar days. These areas shall also be inspected within 24 hours following any storm in which 0.5 inches or greater of rain occurs.

PERMANENT STABILIZATION PRACTICES

All new embankments disturbed by construction and unpaved areas that are graded or disturbed by construction will receive erosion control matting, topsoil and/or turf establishment. The Contractor may use other permanent stabilization practices approved by the Engineer and in conformance with the Connecticut's Erosion and Sedimentation Control Guidelines.

Proposed permanent structures include stormwater bio infiltration basins, riprap, landscaping, and deep sump catch basins. Refer to the 'Grading and Drainage Plan' and the 'Landscaping Plan' sheets.

STRUCTURAL MEASURES

A variety of stormwater collection and treatment systems will be implemented in the proposed project. Water quality improvements will be installed through utilization of bio inflation areas for removal of total suspended solids (TSS). Regular maintenance, including removing the existing debris and sediment within each of the existing catch basins and proposed catch basins on site, shall be implemented to improve the overall removal of TSS Runoff from the proposed development area will be directed into the stormwater treatment areas for infiltration and ultimately conveyed to Long Island Sound. The detention systems will also provide stormwater settling potential for further TSS, to be removed offsite with proper maintenance. As a result of the various treatment systems, significant stormwater quality improvements are being provided for the site.

All catch basins will have a minimum of four-foot-deep sumps to collect sediment carried in the runoff. All catch basin outlets will be fitted with 'hoods' which remove floating debris and petroleum based contaminates as they float to the surface in the individual catch basin and are impounded in the structure so they can be properly removed during regular maintenance.

The most basic measure of the stormwater treatment train is to implement regular sweeping of the paved areas and annual cleaning of the catch basin sumps, underground detention systems, and hydrodynamic separators, which allows continuous proper function of stormwater systems and prevents sediment form reaching outlet locations.

MAINTENANCE

All construction activities and related activities shall conform to the requirements of the Guidelines. In general, all construction activities shall proceed in such a manner so as not to pollute any wetlands, watercourses, water body, and conduit carrying stormwater. The Contractor shall limit, in so far as possible, the surface area of earthen materials exposed by construction activity and immediately provide temporary and permanent pollution control to prevent soil erosion and contamination on the site. Water pollution control provisions and best management practices per all local and state requirements. Control measures shall be inspected and maintained in accordance with the Guidelines and as directed by the Engineer.

4.0 DEWATERING WASTEWATERS

DEWATERING GUIDELINES

If encountered, dewatering wastewaters will be infiltrated into the ground unless otherwise directed by the Engineer. When dewatering is necessary, pumps used shall not be allowed to discharge directly into a wetland or watercourse. Prior to any dewatering, the Contractor must submit to the Engineer a written proposal for specific methods and devices to be used, and must obtain the Engineer's written approval of such methods and devices, including, but not limited to, the pumping of water into a temporary sedimentation basin, providing surge protection at the inlet or outlet of pumps, floating the intake of a pump, or any other method for minimizing and retaining the suspended solids. If the Engineer determines that a pumping operation is causing turbidity problems, the Contractor shall halt said operation until a means of controlling the turbidity is submitted by the Contractor in writing to the Engineer, approved in writing by the Engineer and implemented by the Contractor. No discharge of dewatering wastewater shall contain or cause a visible oil sheen, floating solids or foaming in the receiving water. If required, all activities are to be performed in compliance CTDEEP requirements.

5.0 POST CONSTRUCTION STORMWATER MANAGEMENT

POST-CONSTRUCTIONS GUIDELINES

After the project is complete, the Owner will perform the following maintenance and restorative measures:

- Litter/debris will be removed from the site regularly.
- Mowing and maintenance of the turf areas and vegetated areas will occur as needed.
- Riprap outlet protection will be inspected and repaired annually or as needed.

- The stormwater basin will be inspected and repaired annually or as needed. Sediment will be removed when it interferes with the detention capacity of the basin. Outlets will be checked for excessive scour and repaired as needed.

POST CONSTRUCTION PERFORMANCE STANDARDS

The site has been designed to reduce the area of impervious within the project limits this will result in a decrease in runoff generated from the site. Under existing conditions, the limit of disturbance (LOD) contains 2.59 acres of impervious under proposed conditions the same limit of disturbance LOD will contain 2.34 acres of imperious a reduction of 0.25 acres of impervious coverage.

The required sitewide water quality volume (WQV) will be detained and treated on site. The total volume on site will be detained and infiltrated through the proposed bio infiltration basins. These basins have been designed in accordance with Connecticut Stormwater Quality Manual as shown in the Water quality Volume Calculations found in Appendix B.

RUNOFF REDUCTION AND LID PRACTICES

- *The site has been designed to reduce the amount of impervious area to the maximum extent possible.*
- *Runoff from the impervious surfaces will be directed to the bio infiltration areas for treatment and infiltration. This will treat the required water quality volume.*

Suspended Solids and Floatables Removal

Treatment will be provided by catch basins with a minimum 4' deep sump, hooded outlets, and a formalized street sweeping program.

Velocity Dissipation

Velocity dissipation devices shall be placed at each discharge location and along the length of any outfall channel as necessary to provide a non-erosive velocity flow to the receiving watercourse so that the natural physical and biological characteristics and functions are maintained and protected. All runoff captured by the site's stormwater management system is collected and routed to outfalls. All outfalls immediately upstream of any wetland area shall be installed with either a riprap scour hole or riprap apron.

6.0 OTHER CONTROLS

WASTE DISPOSAL

Construction site waste shall be properly managed and disposed of during the entire construction period. Additionally,

- A waste collection area will be designated. The selected area will minimize truck travel through the site and will not drain directly to the adjacent wetlands.
- Waste collection shall be scheduled regularly to prevent the containers from overfilling.
- Spills shall be cleaned up immediately.
- Defective containers that may cause leaks or spills will be identified through regular inspection. Any found to be defective will be repaired or replaced immediately.
- Any stockpiling of materials should be confined to the designated area as defined by the engineer.

WASHOUT AREAS

Washout of applicators, containers, vehicles and equipment for concrete shall be conducted in a designated washout area. No surface discharge of washout wastewaters from the area will be allowed. All concrete washwater will be directed into a container or pit such that no overflows can occur. Washout shall be conducted in an entirely self-contained system and will be clearly designed and flagged or signed where necessary. The washout area shall be located outside of any buffers and at least 50 feet from any stream, wetland or other sensitive water or natural resources as determined or designated by the Engineer.

The designated area shall be designed and maintained such that no overflows can occur during rainfall or after snowmelt. Containers or pits shall be inspected at least once a week to ensure structural integrity, adequate holding capacity and will be repaired prior to future use if leaks are present. The contractor shall remove hardened concrete waste when it accumulates to a height of ½ of the container or pit or as necessary to avoid overflows. All concrete waste shall be disposed of in a manner consistent will all applicable laws, regulations and guidelines.

ANTI-TRACKING PADS AND DUST CONTROL

Off–site vehicle tracking of sediments and the generation of dust shall be minimized. Temporary anti-tracking pads from the active work site to the existing pavement will be installed and maintained at the locations shown on the plans. The contractor shall:

- Maintain the entrance in a condition which will prevent tracking and washing of sediment onto paved surfaces.
- Provide periodic top dressing with additional stone or additional length as conditions demand.

- Repair any measures used to trap sediment as needed.
- Immediately remove all sediment spilled, dropped, washed or tracked onto paved surfaces.
- Ensure roads adjacent to a construction site are left clean at the end of each day.

If the construction entrance is being properly maintained and the action of a vehicle traveling over the stone pad is not sufficient to remove the majority of the sediment, then the contractor shall either:

- Increase the length of the construction entrance,
- Modify the construction access road surface, or
- Install washing racks and associated settling area or similar devices before the vehicle enters a paved surface.

For construction activities which cause airborne particulates, wet dust suppression shall be utilized. Construction site dust will be controlled by sprinkling the ground surface with water until it is moist on an as-needed basis. The volume of water sprayed shall be such that it suppresses dust yet also prevents the runoff of water.

POST-CONSTRUCTION

Upon completion of construction activities and stabilization of the site, all post-construction stormwater structures, including *all catch basins and bio infiltration areas*, shall be cleaned of construction sediment and any remaining silt fence shall be removed prior to acceptance of the project by the Engineer. Sediment shall be properly disposed of in accordance with all applicable laws, regulations and guidelines.

MAINTAINING AND STORING VEHICLES AND EQUIPMENT

The contractor shall take measures to prevent any contamination to wetlands and watercourses while maintaining and storing construction equipment on the site. All chemical and petroleum containers stored on site shall be provided with impermeable containment which will hold at least 110% of the volume of the largest container, or 10% of the total volume of all containers in the area, whichever is larger, without overflow from the containment area. All chemicals and their containers shall be stored under a roofed area except for those stored in containers of 100-gallon capacity or more, in which case double-walled tanks will suffice.

7.0 INSPECTIONS

INSPECTION GUIDELINES

All construction activities shall be inspected initially for Plan implementation and then weekly for Routine Inspections.

During construction, all areas disturbed by the construction activity that have not been stabilized, all erosion and sedimentation control measures, all structural control measures, soil stockpile areas, washout areas and locations where vehicles enter or exit the site shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and impacts to receiving waters at least once every seven calendar days and within 24 hours of the end of a storm that generates a discharge.

For storms that end on a weekend, holiday or other time in which working hours will not commence within 24 hours, an inspection is required within 24 hours only for storms that equal or exceed 0.5 inches. For lesser storms, inspection shall occur immediately upon the start of subsequent normal working hours.

Where sites have been temporarily or finally stabilized, such inspection shall be conducted at least once every month for three months.

Items to be inspected: the following items shall be inspected as described below:

Silt Fence:

Silt fence shall be inspected to ensure that the fence line is intact with no breaks or tears. The fence shall be firmly anchored to the ground. Areas where the fence is excessively sagging or where support posts are broken or uprooted shall be noted. Depth of sediment behind the fence shall be noted.

Catch Basin Protection:

Protective measures shall be inspected to ensure that sediment is not entering the catch basins. Catch basin sumps shall be monitored for sediment deposition. Hay bales shall be inspected to ensure they have not clogged.

Vehicle Entrances / Exits

Locations where vehicles enter or exit the site shall be inspected for evidence of off-site tracking.

General

Construction areas and the perimeter of the site shall be inspected for any evidence of debris that may blow or wash off site or that has blown or washed off site. Construction areas shall be inspected for any spills or unsafe storage of materials that could pollute off site waters.

Post-Construction Inspection

Once all post-construction stormwater measures have been installed in accordance with section 5(b)(2)(C) of the general permit, Post-Construction Stormwater Management, and cleaned of any construction sediment or debris, the Permittee shall ensure that the appropriate Conservation District or a qualified soil erosion and sediment control professional or a qualified professional engineer, as appropriate, inspects the site to confirm compliance with the post-construction stormwater management requirements. The permittee shall ensure that the person inspecting the site pursuant to this paragraph is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the Permittee, and that such person has no ownership interest of any kind in the project for which the site's registration was submitted. A report shall be prepared and certified in accordance with Sections 6(a) and (b) of the general permit to indicate compliance with this requirement on the Notice of Termination form.

Final Stabilization Inspection

Once the site has achieved final stabilization for at least one full growing season (April-October) in the year following the end of construction, the Permittee shall have the site inspected by a qualified inspector to confirm such stabilization is maintained. The Permittee shall indicate compliance with this requirement on the Notice of Termination form.

8.0 KEEPING PLANS CURRENT

The Owner or Engineer shall amend the Plan if the actions required by the Plan fail to prevent pollution or otherwise comply with provisions of the General Permit. The Plan shall also be amended whenever there is a change in contractors or sub-contractors at the site. If the results of the inspections require modifications to the Stormwater Pollution Control Plan, the plans shall be revised as soon as practicable after the inspection. Such modifications shall provide for a timely implementation of any changes to non-engineered controls on the site within 24 hours and implementation of any changes to the plan within 3 (three) calendar days following the inspection. For Engineered measures, corrective actions shall be implemented on site within 7 (seven) days and incorporated into a revised Plan within 10 (ten) days of the date of inspection

In no event shall the requirements to keep the Plan current or update a Plan, relieve the permittee and their contactor(s) of the responsibility to properly implement any actions required to protect the waters of the State and to comply with all conditions of the permit.

9.0 CONTRACTORS STATEMENT

General

This section shall identify all Contractors and Subcontractors who will perform on site actions which may reasonably be expected to cause or have the potential to cause pollution of the waters of the State.

Certification Statement

All contractors and subcontractors must sign the attached statement. All certifications will be included in the Stormwater Pollution Control Plan.

With the implementation of the stormwater management system designed for this project, there will be no negative impacts on-site or on downstream properties or off-site storm drainage systems from the proposed development. The rate of stormwater runoff and the volume of stormwater runoff for the Costco Property is decreased through all storm events. Existing runoff discharge points will be maintained in the proposed design and appropriate measures are included to ensure that drainage will continue to flow to existing locations using the previously approved rainfall runoff amounts as well as the new NOAA Atlas 14 rainfall runoff rates.

The stormwater management systems have been designed to reduce peak flow rates. The on-site drainage collection system is sized for the 10-year storm to operate without ponding or surcharging and numerous measures have been implemented to improve stormwater quality including stormwater management basins with sediment forebays and micropools, hydrodynamic separators, catch basin sumps, and hooded outlets.

This report, as noted above, has been prepared to complement the submitted project plans as well as to represent the technical basis for the designs presented herein. In consideration of the overall project, we conclude that the stormwater management systems have been designed to be in general conformance with the design parameters set forth by the Town and State.

Avery Point Renovation of Commuter Parking Lots A-B

Groton, CT

"I certify under penalty of law that I have read and understand the terms and conditions of the general permit for the discharge of stormwater associated with construction activity. I understand that as Contractor on the project, I am covered by this general permit, and must comply with the terms and conditions of this permit, including, but not limited to, the requirements of the Stormwater Pollution Control Plan prepared for this project."

GENERAL CONTRACTOR

Signed:_____ Date:_____

Title:_____

Firm:_____ Telephone:_____

Address:_____

_____

_____

SUBCONTRACTOR

Signed:_____ Date:_____

Title:_____

Firm:_____ Telephone:_____

Address:_____

_____

_____

General:

This Stormwater Pollution Control Plan (SWPCP) is prepared to comply with the requirements for the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities ("Construction Stormwater General Permit"). Also to be considered part of the SWPCP are the proposed construction plans, Connecticut Water Quality Manual (latest revision) and the Connecticut Guidelines for Soil Erosion and Sediment Control (latest revision)

LIST OF APPLICABLE FIGURES / PLANS:

APPENDIX A – FIGURES

Aerial Photo
FEMA Map
NRCS Web Soil Survey

APPENDIX B – DRAINAGE CALCULATIONS

Water Quality Computations

APPENDIX C – PLAN SHEETS

APPENDIX D – STORMWATER MONITORING REPORT FORM

APPENDIX E – NOTICE OF TERMINATION FORM

APPENDIX A

FIGURES

Architecture
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AVERY POINT

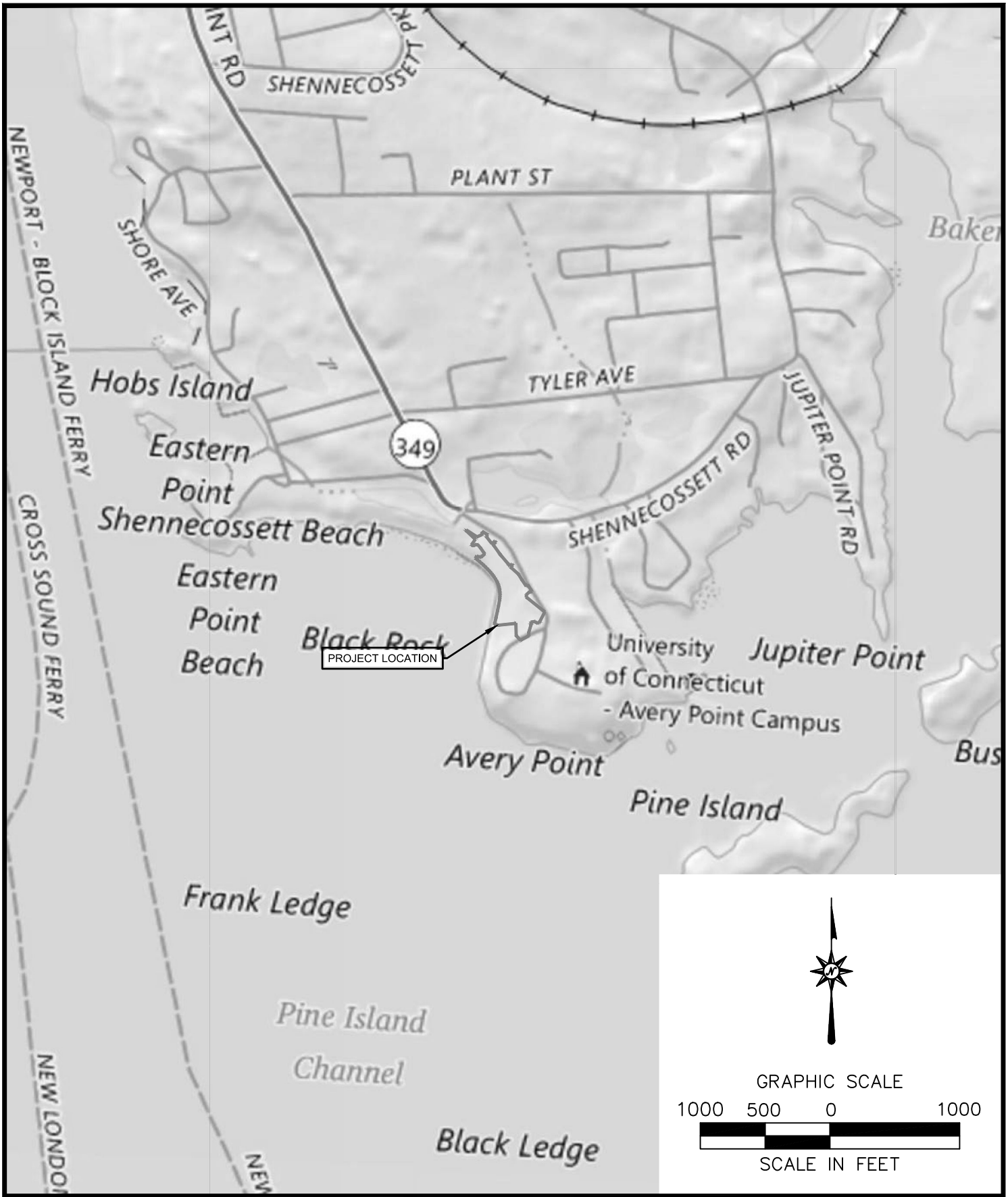
1084 SHENNECOSSETT ROAD
GROTON, CONNECTICUT

Designed	K.R.
Drawn	K.R.
Reviewed	A.D.S.
Scale	1"=500'
Project No.	2502032
Date	03/18/2026
CAD File:	EXH2502032-01

FIGURE 1

AERIAL LOCATION MAP

3/18/2026, KROGALSKI, G:\JOBS25\20\2502032\DWG\EXH2502032-01.DWG.FIGURE 2 8.5X11 500SC.



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AVERY POINT

1084 SHENNECOSSETT ROAD
GROTON, CONNECTICUT

Designed	K.R.
Drawn	K.R.
Reviewed	X.X.X.
Scale	1"=1000'
Project No.	2502032
Date	03/18/2026
CAD File:	EXH2502032-01

FIGURE 2

USGS LOCATION MAP

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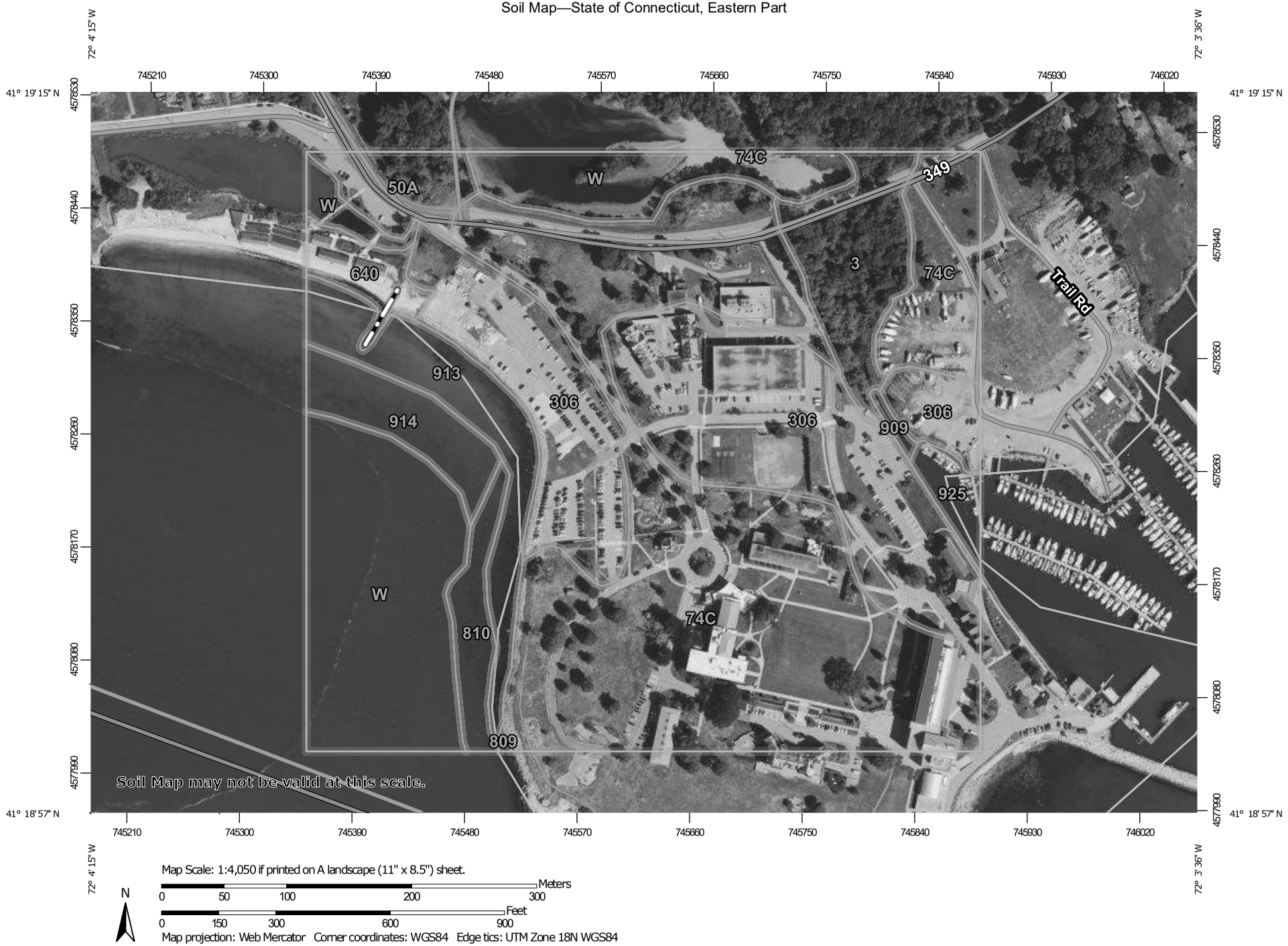
Soil Map—State of Connecticut, Eastern Part



Map Scale: 1:4,050 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 50 100 200 300

Feet
0 150 300 600 900

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut, Eastern Part
Survey Area Data: Version 6, Sep 16, 2025

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 14, 2022—Oct 6, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
3	Ridgebury, Leicester, and Whitman soils, 0 to 8 percent slopes, extremely stony	3.3	5.1%
50A	Sutton fine sandy loam, 0 to 3 percent slopes	1.6	2.4%
74C	Narragansett-Hollis complex, 3 to 15 percent slopes, very rocky	24.0	37.6%
306	Udorthents-Urban land complex	15.3	24.0%
640	Beaches, sand-Hooksan complex, 0 to 8 percent slopes	1.1	1.7%
809	Napatree gravelly fine sandy loam, intertidal, very bouldery	0.0	0.1%
810	Napatree gravelly fine sandy loam, subtidal, very bouldery	1.4	2.2%
909	Fort Neck silt loam, intertidal, bouldery	0.1	0.2%
913	Niantic sand, intertidal	3.4	5.4%
914	Niantic sand, subtidal	2.0	3.1%
925	Water, dredge channel	0.7	1.1%
W	Water	10.9	17.1%
Totals for Area of Interest		**63.9**	**100.0%**

APPENDIX B

DRAINAGE CALCULATIONS

Water Quality Calculations

Standard 1 - Determine Water Quality Volume

From CT 2024 Stormwater Quality Manual:

$$WQV = \frac{(1.3")(R)(A)}{12}$$

$$R = 0.05 + 0.009(I)$$

WQV = water quality volume (ft^3)
R = volumetric runoff coefficient
I = post- development impervious area (percent) after application of non-structural LID site planning and design strategies and before application of structural stormwater BMPs
A = post-development total drainage area of site or design point (square feet)

Area ID	Drainage Area	Total Area		Impervious Area		Impervious Cover	Volumetric Runoff Coefficient	Water Quality Volume (WQV)	Water Quality Volume (WQV) 50% Required	Water Quality Volume Provided
		ac	ft^2	ac	ft^2	%	R	ft^3		ft^3
	Site LOD	3.511	152,934	2.547	110,927	72.54	0.703	11,647	5,824	7,532

Notes: The required water quality volume is 50% of the Calculated volume because the site LOD is over 40% imperious under existing conditions

Total WQV Required = 5,824 CF
Total WQV Provided = 7,532 CF

APPENDIX C

PLAN SHEETS

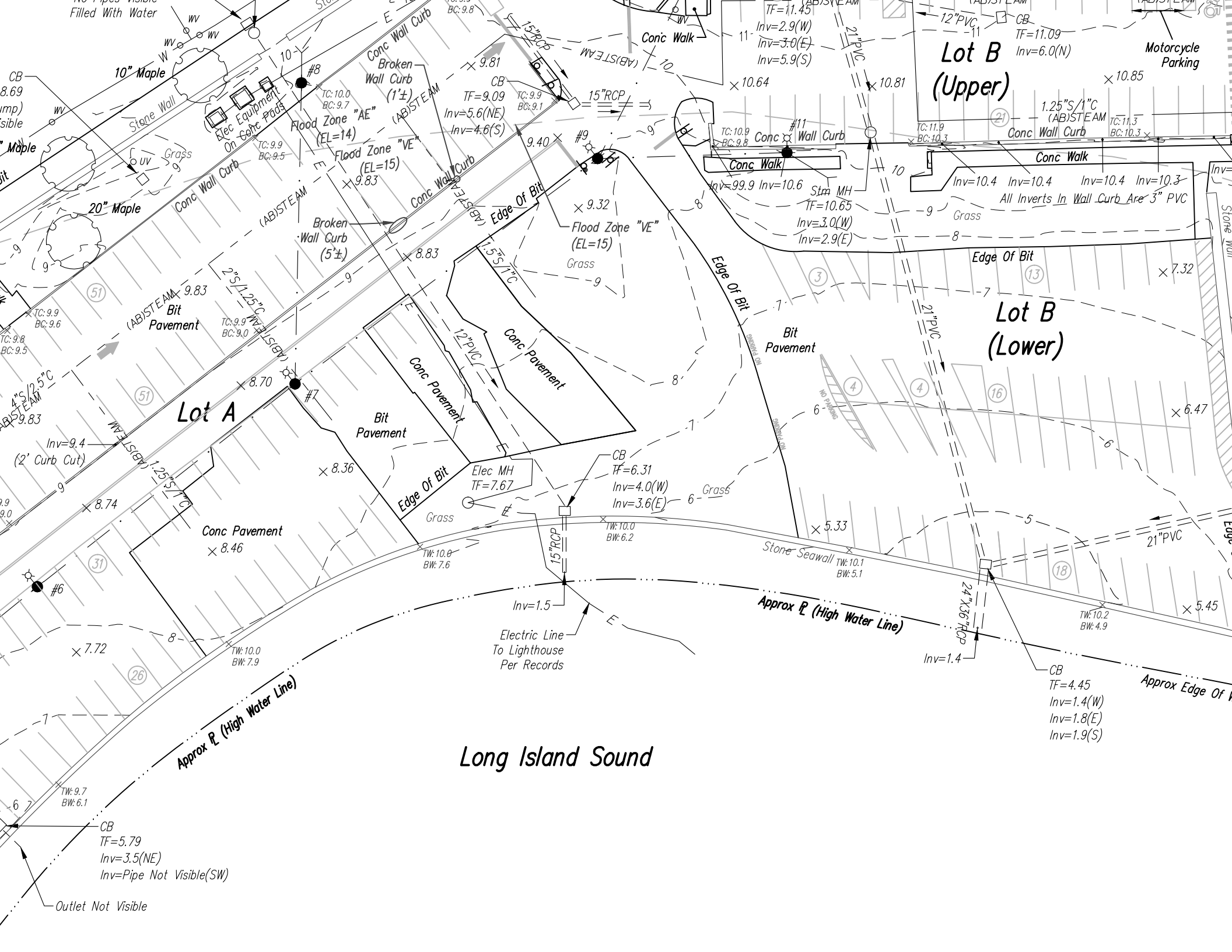
RADENKA MARIC
ESIDENT

UCONN AVERY POINT

AVERY POINT CAMPUS
BUILDING #: 0030
1084 SHENNECOSSETT ROAD
GROTON, CT 06340

PROJECT NO.: 300315

RENOVATION : COMMUTER PARKING LOTS A-B


Lot A
Lot B (Upper)
Lot B (Lower)
Long Island Sound
Approx ℄ (High Water Line)
Approx ℄ (High Water Line)
Approx Edge Of W
Conc Pavement
Bit Pavement
Conc Walk
Conc Wall Curb
Broken Wall Curb (1'±)
Broken Wall Curb (5'±)
Edge Of Bit
Stone Wall
Stone Seawall
Grass
Flood Zone "AE" (EL=14)
Flood Zone "VE" (EL=15)
Elec Equipment On Conc Pads
Elec MH TF=7.67
Stm MH TF=10.65 Inv=3.0(W) Inv=2.9(E)
CB TF=11.45 Inv=2.9(W) Inv=3.0(E) Inv=5.9(S)
CB TF=11.09 Inv=6.0(N)
CB TF=9.09 Inv=5.6(NE) Inv=4.6(S)
CB TF=6.31 Inv=4.0(W) Inv=3.6(E)
CB TF=4.45 Inv=1.4(W) Inv=1.8(E) Inv=1.9(S)
CB TF=5.79 Inv=3.5(NE) Inv=Pipe Not Visible(SW)
Outlet Not Visible
Inv=9.4 (2' Curb Cut)
Inv=1.5
Inv=1.4
Electric Line To Lighthouse Per Records
Motorcycle Parking
NO PARKING
All Inverts In Wall Curb Are 3" PVC
10" Maple
20" Maple
#6
#7
#8
#9
#11
15"RCP
12"PVC
21"PVC
24"X36"RCP
4"S/2.5"C
2"S/1.25"C
1.25"S/1"C
1.5"S/1"C
(AB)STEAM

AND DRIVEWAYS SHALL REMAIN OPEN FOR NORMAL BUSINESS OPERATIONS UNTIL COMPLETION.

G VEGETATION WHERE POSSIBLE AND/OR AS NOTED ON DRAWINGS. REFER TO SEDIMENT AND EROSION CONTROL PLAN FOR LIMIT OTES.

D ON SITE FOR USE IN FINAL LANDSCAPING.

FT THICKNESS PER THE GEOTECHNICAL REPORT UNDER ALL PARKING, BUILDING, DRIVE, AND STRUCTURE AREAS TO 95% OF THE STM D1557 (MODIFIED PROCTOR TEST), OR AS REQUIRED BY THE GEOTECHNICAL ENGINEER.

NED NECESSARY IN THE FIELD BY UCONN/GEOTECHNICAL ENGINEER, AFTER SUBGRADE IS ROUGH GRADED.

BE FOLLOWED ON ALL IMPROVEMENTS WITHIN THIS PARCEL SO AS TO PREVENT THE SILTING OF ANY WATERCOURSE OR LATIONS OF THE CT DEEP AND THE 2023 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST ALL STRICTLY ADHERE TO THE SEDIMENT AND EROSION CONTROL PLAN CONTAINED HEREIN. THE CONTRACTOR SHALL BE RED BY THE LOCAL MUNICIPALITIES WHICH WOULD GUARANTEE THE PROPER IMPLEMENTATION OF THE PLAN.

ON, AND CONSTRUCTION METHODS FOR EARTHWORK AND STORM DRAINAGE WORK SHALL CONFORM TO THE SPECIFICATIONS THE PROJECT SPECIFICATIONS MANUAL. OTHERWISE THIS WORK SHALL CONFORM TO THE STATE DEPARTMENT OF JECT GEOTECHNICAL REPORT IF THERE IS NO PROJECT SPECIFICATIONS MANUAL. ALL FILL MATERIAL UNDER STRUCTURES AND ED APPLICABLE SPECIFICATIONS, AND/OR PROJECT GEOTECHNICAL REPORT, AND SHALL BE PLACED IN ACCORDANCE WITH THE PERVISION OF A QUALIFIED PROFESSIONAL ENGINEER. MATERIAL SHALL BE COMPACTED IN LIFT THICKNESSES PER THE PROJECT IMUM DRY DENSITY AS DETERMINED BY ASTM D 1557 AT MOISTURE CONTENT INDICATED IN PROJECT GEOTECHNICAL REPORT.

PERTY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE THE WORK.

UCONN AND CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.

VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS OSSINGS AND EARTHWORK OVER EXISTING UTILITIES TO REMAIN. TEST PITS SHALL BE USED TO DETERMINE THE HORIZONTAL THE CONTRACTOR SHALL CONTACT THE CIVIL ENGINEER IN THE EVENT OF ANY DISCOVERED OR UNFORESEEN CONFLICTS

ON THE PLAN MAY CHANGE SUBJECT TO UTILITY PROVIDER AND GOVERNING AUTHORITY STAFF REVIEW.

TILITY PROVIDERS AND GOVERNING AUTHORITY STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET. THE DINATION WITH THE RESPECTIVE UTILITY PROVIDER.

NG IS TO BE INSTALLED SHALL BE SAW CUT. AFTER UTILITY INSTALLATION IS COMPLETED, THE CONTRACTOR SHALL INSTALL REPAIR AS DETAILED ON THE DRAWINGS OR AS REQUIRED BY UCONN HAVING JURISDICTION.

NMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.

S SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY PROVIDER.

BACKFILL IN 8" LIFTS ACCORDING TO THE PIPE BEDDING DETAILS. TRENCH BOTTOM SHALL BE STABLE IN HIGH GROUNDWATER PER THE TRENCH DETAILS AND IN AREAS OF ROCK EXCAVATION.

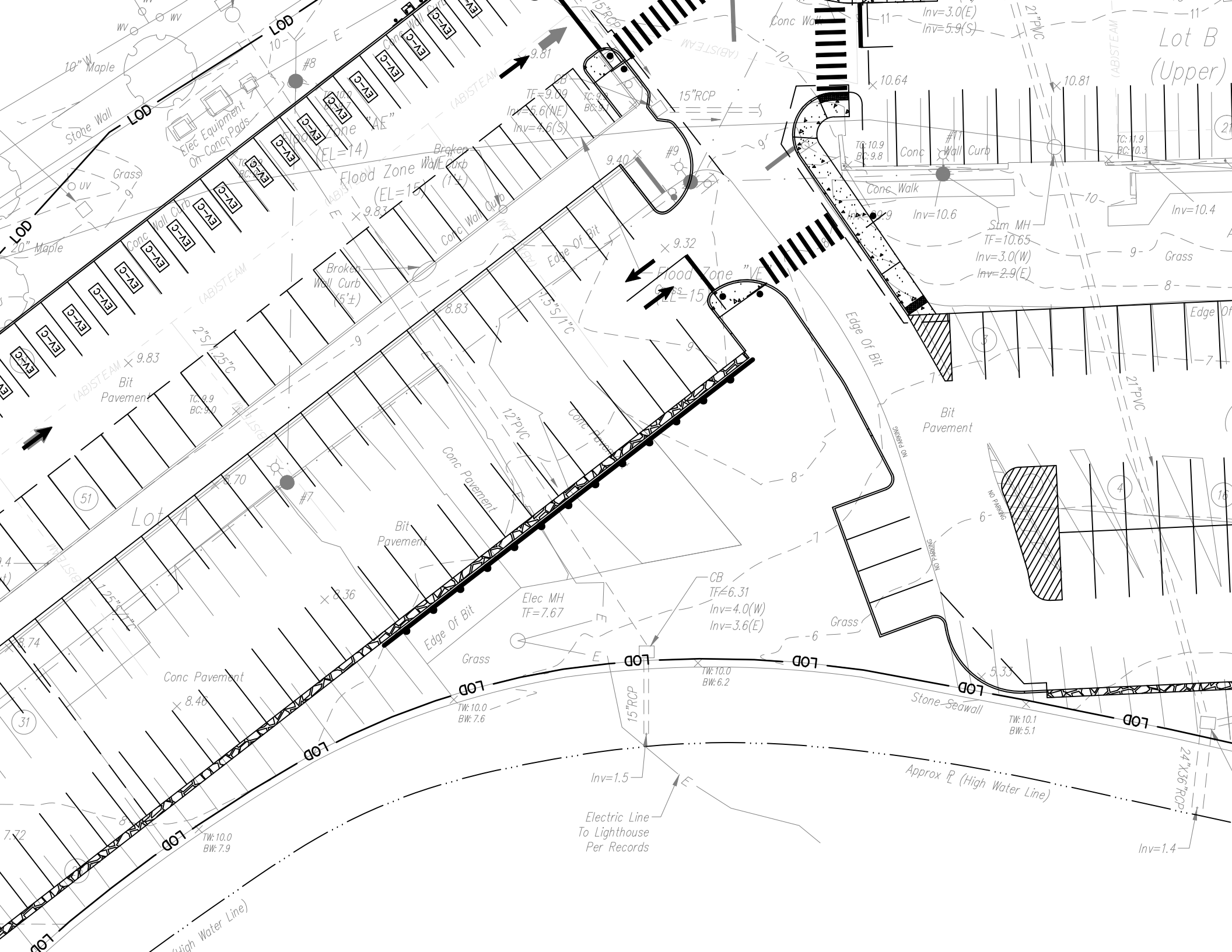
D ANNULAR SPACE SAND FILL FOR UTILITY PIPE AND CONDUIT CONNECTIONS UNDER FOOTINGS.

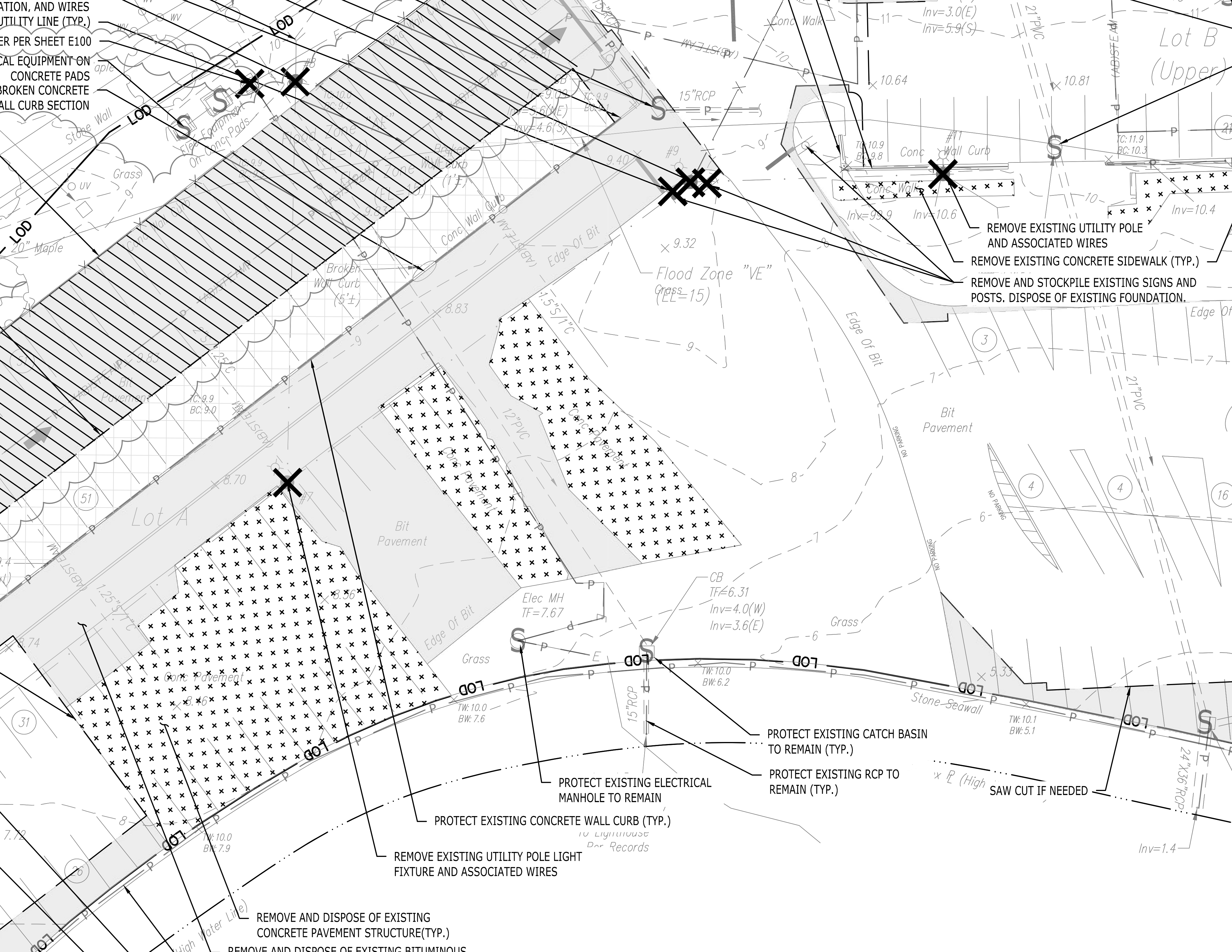
NSPECTION FOR APPROVAL PRIOR TO BACKFILLING, IN ACCORDANCE WITH THE APPROPRIATE UTILITY PROVIDER REQUIREMENTS.

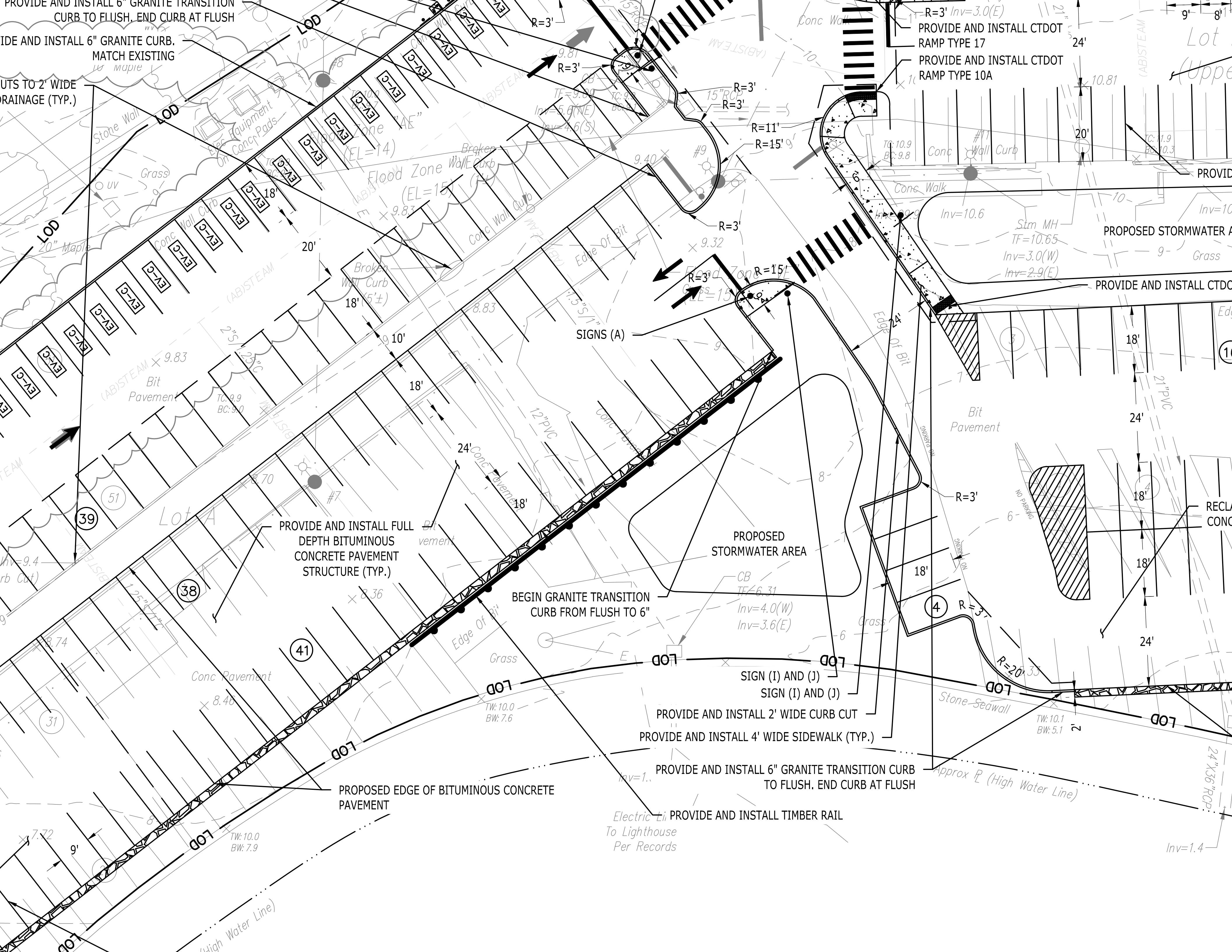
BETWEEN WATER, GAS, ELECTRICAL, AND TELEPHONE LINES AND STORM PIPING SHALL BE PROVIDED. A SIX-INCH MINIMUM STORM PIPING AND SANITARY SEWER WITH A CONCRETE ENCASEMENT. AN 18-INCH TO 6-INCH VERTICAL CLEARANCE BETWEEN SHALL REQUIRE CONCRETE ENCASEMENT OF THE PROPOSED PIPING.

HALL BE SET TO ELEVATIONS SHOWN. SET ALL EXISTING MANHOLE RIMS AND VALVE COVERS TO BE RAISED OR LOWERED FLUSH

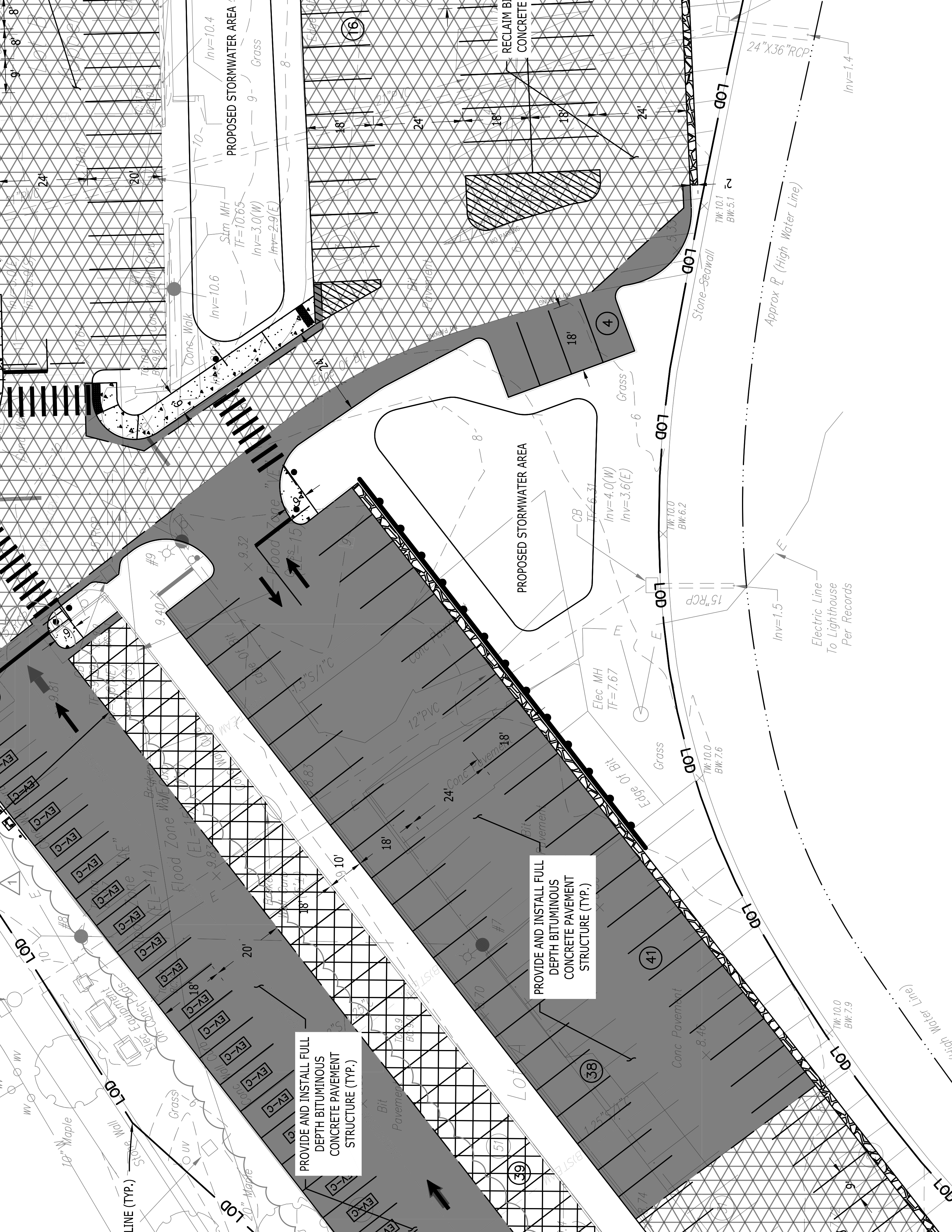
RDINATE WITH UTILITY PROVIDERS FOR WORK TO BE PERFORMED BY UTILITY PROVIDERS. THE CONTRACTOR SHALL PAY ALL


LOD
Stone Wall
Elec Equipment On Conc Pads
10" Maple
20" Maple
Grass
Flood Zone "AE" (EL=14)
Flood Zone "AE" (EL=15)
Flood Zone "VE" (EL=15)
Broken Wall Curb (5'±)
Conc Wall Curb
Edge Of Bit
Bit Pavement
Conc Pavement
Lot A
Lot B (Upper)
CB TF=9.09 Inv=5.6(NE) Inv=4.6(S)
15"RCP
12"PVC
21"PVC
Elec MH TF=7.67
CB TF=6.31 Inv=4.0(W) Inv=3.6(E)
Stm MH TF=10.65 Inv=3.0(W) Inv=2.9(E)
Conc Walk
Inv=10.6
Inv=10.4
Stone Seawall
Approx R (High Water Line)
Electric Line To Lighthouse Per Records
Inv=1.5
Inv=1.4
24"X36"RCP
NO PARKING
2"S/1.25"C
1.5"S/1"C
1.25"S/1"C


REMOVE EXISTING UTILITY POLE
AND ASSOCIATED WIRES
REMOVE EXISTING CONCRETE SIDEWALK (TYP.)
REMOVE AND STOCKPILE EXISTING SIGNS AND
POSTS. DISPOSE OF EXISTING FOUNDATION.
PROTECT EXISTING CATCH BASIN
TO REMAIN (TYP.)
PROTECT EXISTING RCP TO
REMAIN (TYP.)
SAW CUT IF NEEDED
PROTECT EXISTING ELECTRICAL
MANHOLE TO REMAIN
PROTECT EXISTING CONCRETE WALL CURB (TYP.)
REMOVE EXISTING UTILITY POLE LIGHT
FIXTURE AND ASSOCIATED WIRES
REMOVE AND DISPOSE OF EXISTING
CONCRETE PAVEMENT STRUCTURE(TYP.)
ATION, AND WIRES
UTILITY LINE (TYP.)
ER PER SHEET E100
CAL EQUIPMENT ON
CONCRETE PADS
BROKEN CONCRETE
ALL CURB SECTION
Lot A
Lot B
(Upper)
Flood Zone "VE"
(EL=15)
Bit Pavement
Conc Pavement
Edge Of Bit
Stone Seawall
Elec MH
TF=7.67
CB
TF=6.31
Inv=4.0(W)
Inv=3.6(E)
15"RCP
12"PVC
21"PVC
24"X36"RCP
Grass
LOD

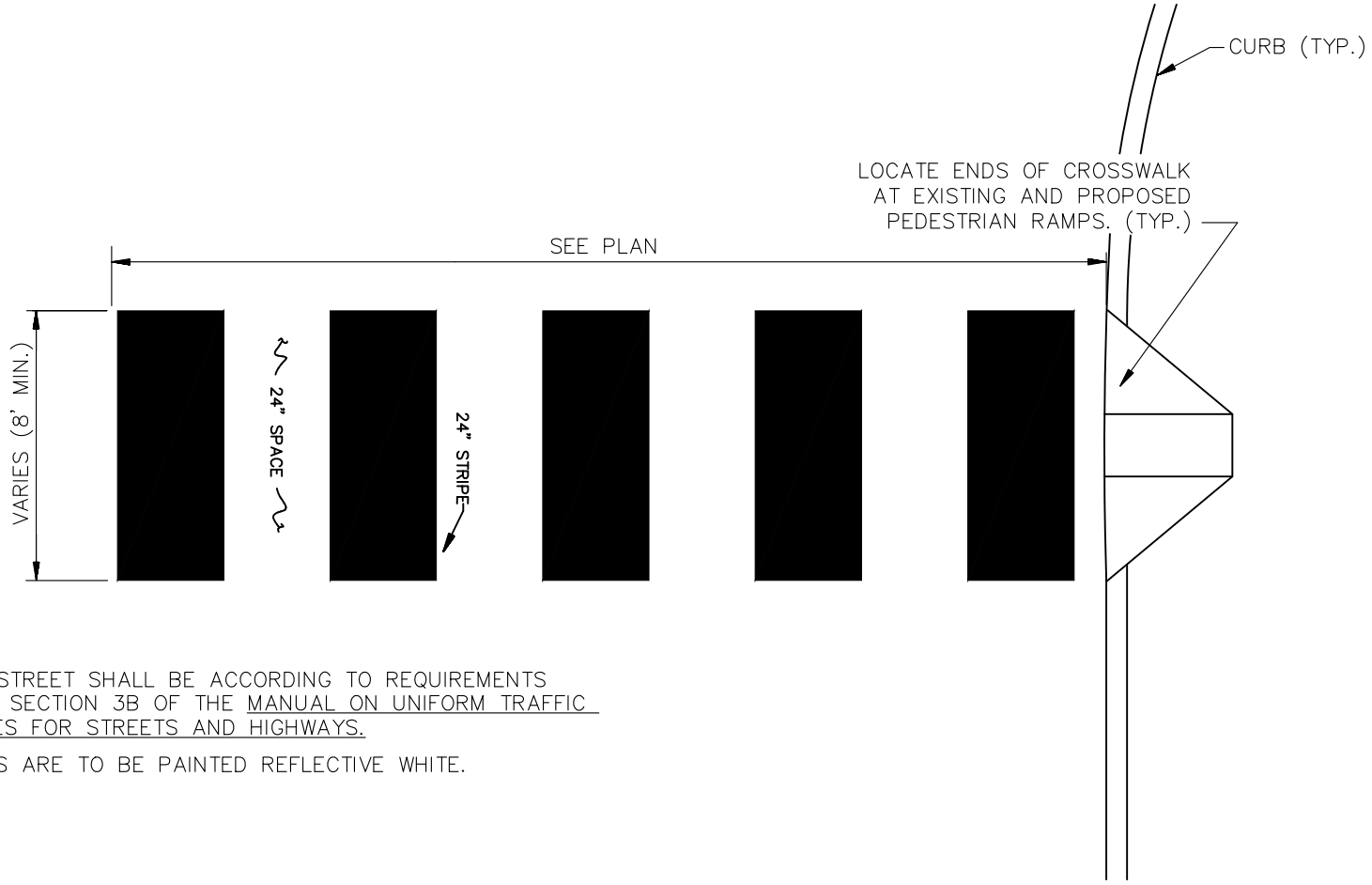


PROVIDE AND INSTALL 6" GRANITE TRANSITION CURB TO FLUSH. END CURB AT FLUSH
IDE AND INSTALL 6" GRANITE CURB. MATCH EXISTING
UTS TO 2' WIDE DRAINAGE (TYP.)
PROVIDE AND INSTALL CTDOT RAMP TYPE 17
PROVIDE AND INSTALL CTDOT RAMP TYPE 10A
PROVIDE AND INSTALL CTDOT
PROPOSED STORMWATER A
SIGNS (A)
PROVIDE AND INSTALL FULL DEPTH BITUMINOUS CONCRETE PAVEMENT STRUCTURE (TYP.)
PROPOSED STORMWATER AREA
BEGIN GRANITE TRANSITION CURB FROM FLUSH TO 6"
SIGN (I) AND (J)
SIGN (I) AND (J)
PROVIDE AND INSTALL 2' WIDE CURB CUT
PROVIDE AND INSTALL 4' WIDE SIDEWALK (TYP.)
PROVIDE AND INSTALL 6" GRANITE TRANSITION CURB TO FLUSH. END CURB AT FLUSH
PROVIDE AND INSTALL TIMBER RAIL
PROPOSED EDGE OF BITUMINOUS CONCRETE PAVEMENT
Electric To Lighthouse Per Records
Approx ℄ (High Water Line)
Stone Seawall
LOD
EV-C


PROPOSED STORMWATER AREA
PROPOSED STORMWATER AREA
PROVIDE AND INSTALL FULL DEPTH BITUMINOUS CONCRETE PAVEMENT STRUCTURE (TYP.)
PROVIDE AND INSTALL FULL DEPTH BITUMINOUS CONCRETE PAVEMENT STRUCTURE (TYP.)
RECLAIM BIT CONCRETE
LOD
Stone Seawall
Approx ℄ (High Water Line)
24"X36"RCP
Inv=1.4
15"RCP
Inv=1.5
Electric Line To Lighthouse Per Records
Elec MH TF=7.67
CB TF=6.31 Inv=4.0(W) Inv=3.6(E)
Stm MH TF=10.65 Inv=3.0(W) Inv=2.9(E)
Inv=10.4
Inv=10.6
TW:10.1 BW:5.1
TW:10.0 BW:6.2
TW:10.0 BW:7.6
TW:10.0 BW:7.9
Grass
Conc Walk
Edge Of Bit
Bit Pavement
Conc Pavement
12"PVC
21"PVC
Flood Zone "VE" (EL=15)
Flood Zone "AE" (EL=14)
EV-C
LINE (TYP.)
10" Maple
20" Maple
Wall
Elec Equipment On Conc Pad
18'
24'
20'
10'
9'
6'
4
16
41
38
39
51
#7
#8
#9

N.T.S.

BLPC-006



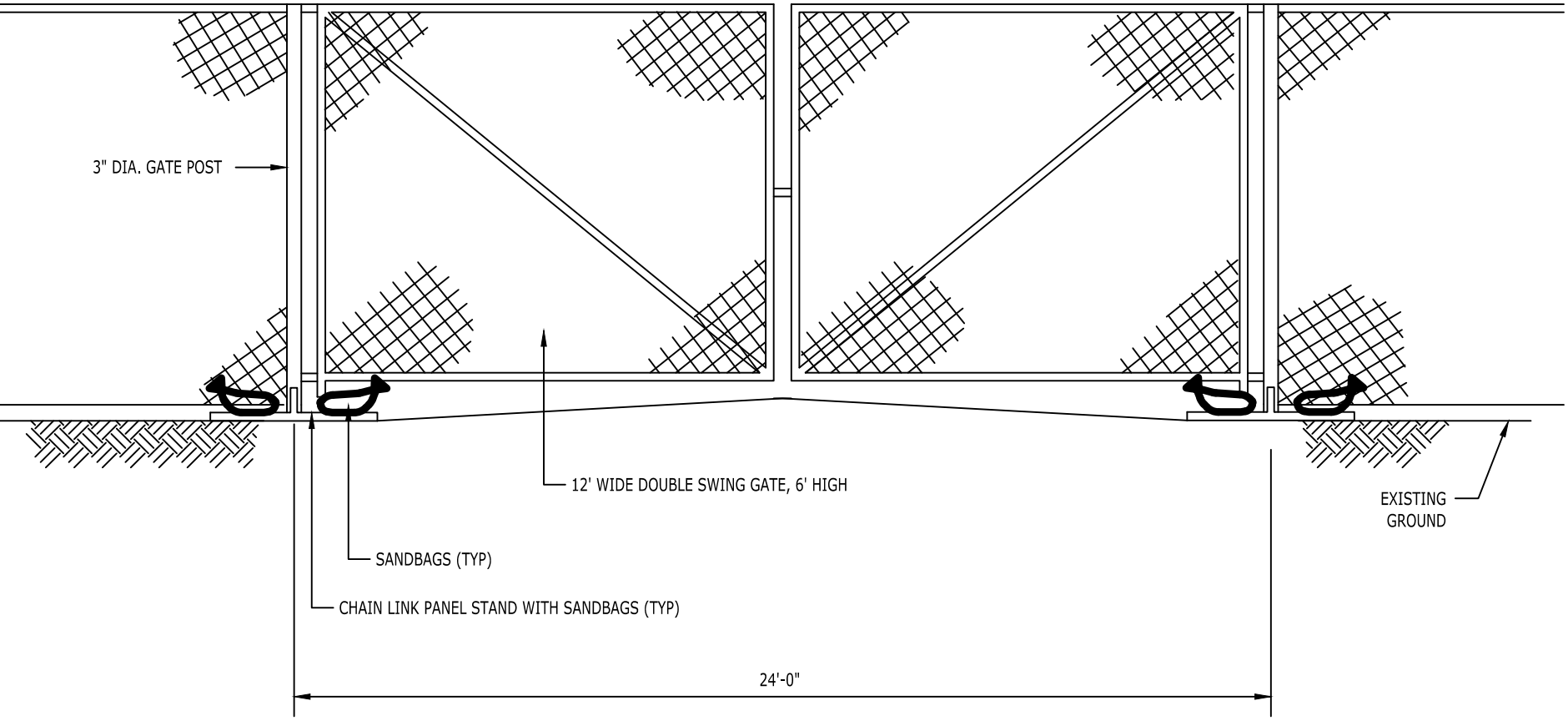
MARKINGS FOR STREET SHALL BE ACCORDING TO REQUIREMENTS AS OUTLINED IN SECTION 3B OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.

THESE MARKINGS ARE TO BE PAINTED REFLECTIVE WHITE.

MINIMUM 2" B

CROSSWALK MARKINGS

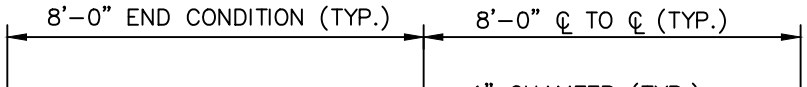
N.T.S.



TEMPORARY CHAIN LINK CONSTRUCTION FENCE GATE DETAIL

N.T.S.

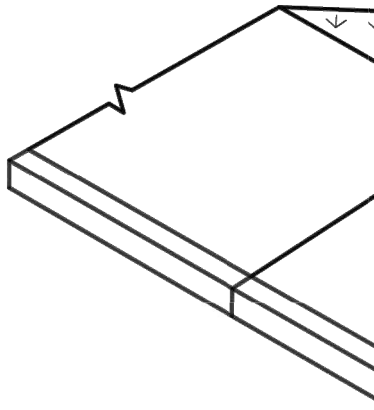
BLFD-000



SINGLE DIRECTION PERPENDICULAR RAMP
NO CURB WITH NON-WALKING SURFACE
(TYPE 17)

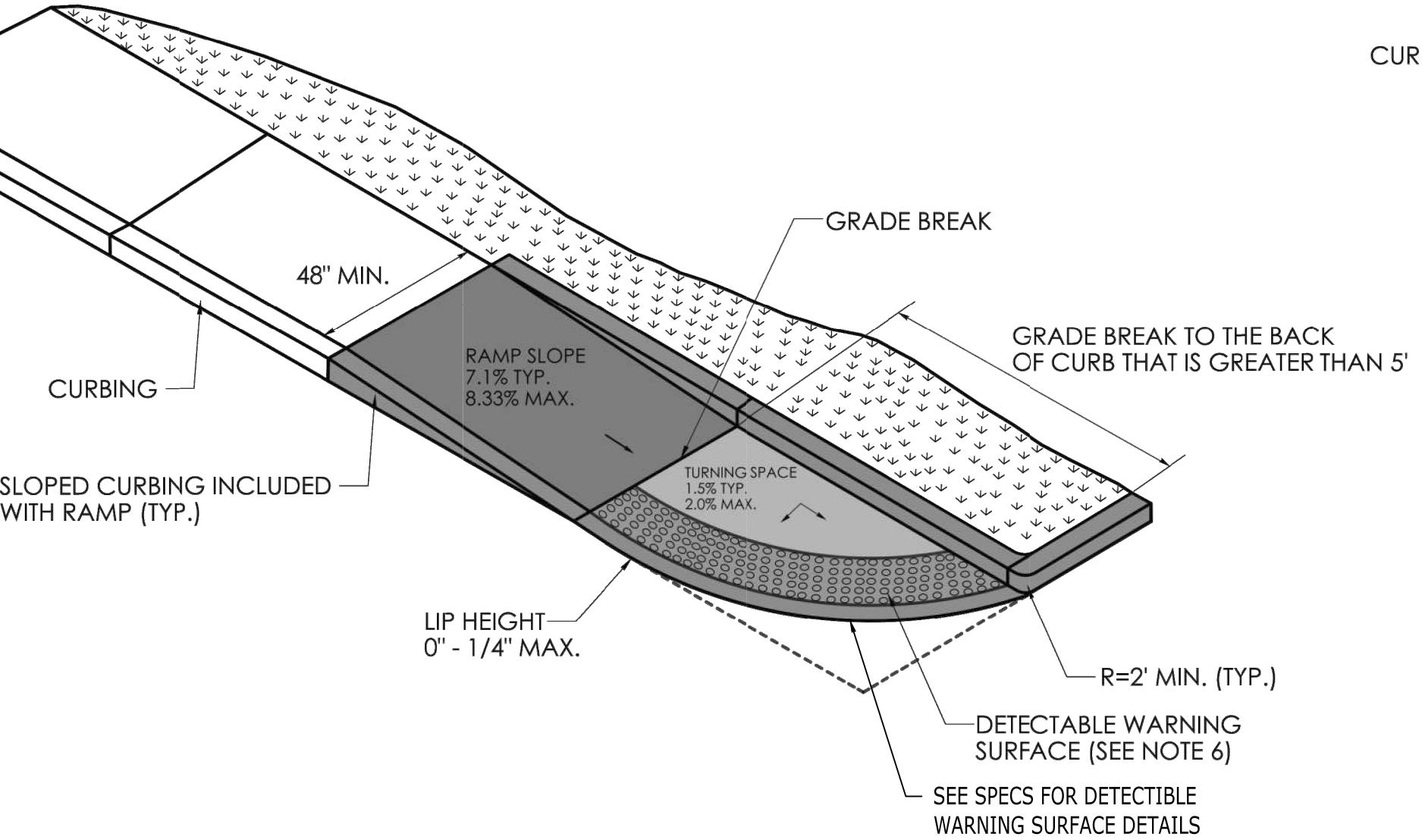
CTDOT RAMP TYPE 17

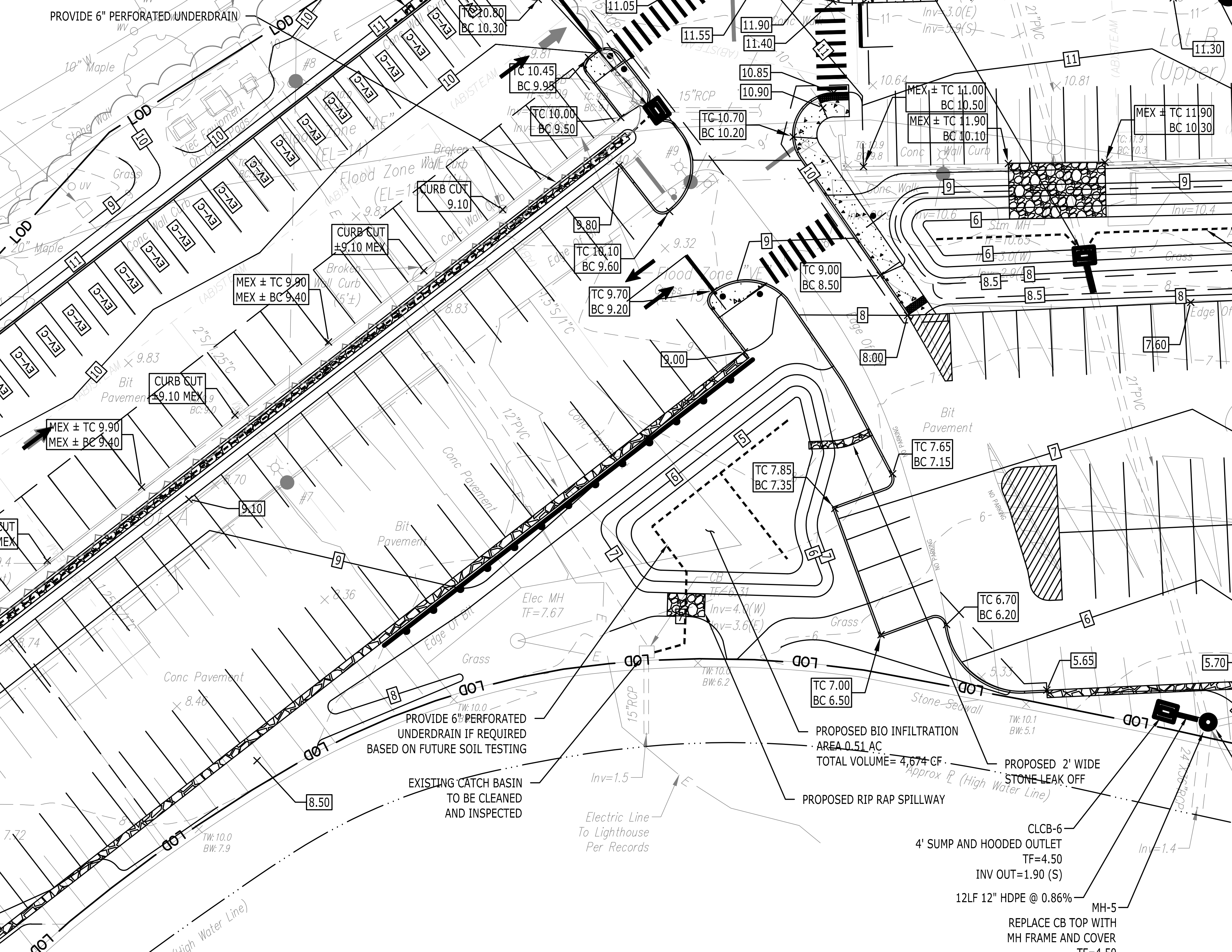
N.T.S.

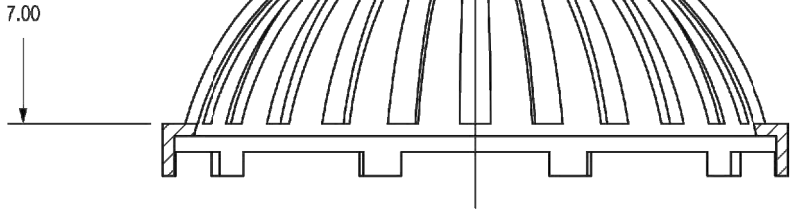


CURBING

SEE SPECS FOR D
WARNING SURFA




PROVIDE 6" PERFORATED UNDERDRAIN
PROVIDE 6" PERFORATED
UNDERDRAIN IF REQUIRED
BASED ON FUTURE SOIL TESTING
EXISTING CATCH BASIN
TO BE CLEANED
AND INSPECTED
PROPOSED BIO INFILTRATION
AREA 0.51 AC
TOTAL VOLUME= 4,674 CF
PROPOSED 2' WIDE
STONE LEAK OFF
PROPOSED RIP RAP SPILLWAY
CLCB-6
4' SUMP AND HOODED OUTLET
TF=4.50
INV OUT=1.90 (S)
12LF 12" HDPE @ 0.86%
MH-5
REPLACE CB TOP WITH
MH FRAME AND COVER
24"X36"RCP
21"PVC
15"RCP
12"PVC
Stone Seawall
Approx ℄ (High Water Line)
Electric Line
To Lighthouse
Per Records
Elec MH
TF=7.67
Conc Pavement
Bit Pavement
Grass
Flood Zone "VE"
Flood Zone "AE"
LOD
TC 10.80
BC 10.30
TC 10.45
BC 9.95
TC 10.00
BC 9.50
TC 10.70
BC 10.20
MEX ± TC 11.00
BC 10.50
MEX ± TC 11.90
BC 10.10
MEX ± TC 11.90
BC 10.30
CURB CUT
9.10
CURB CUT
±9.10 MEX
MEX ± TC 9.90
MEX ± BC 9.40
TC 10.10
BC 9.60
TC 9.70
BC 9.20
TC 9.00
BC 8.50
TC 7.65
BC 7.15
TC 7.85
BC 7.35
TC 6.70
BC 6.20
TC 7.00
BC 6.50
EV-C



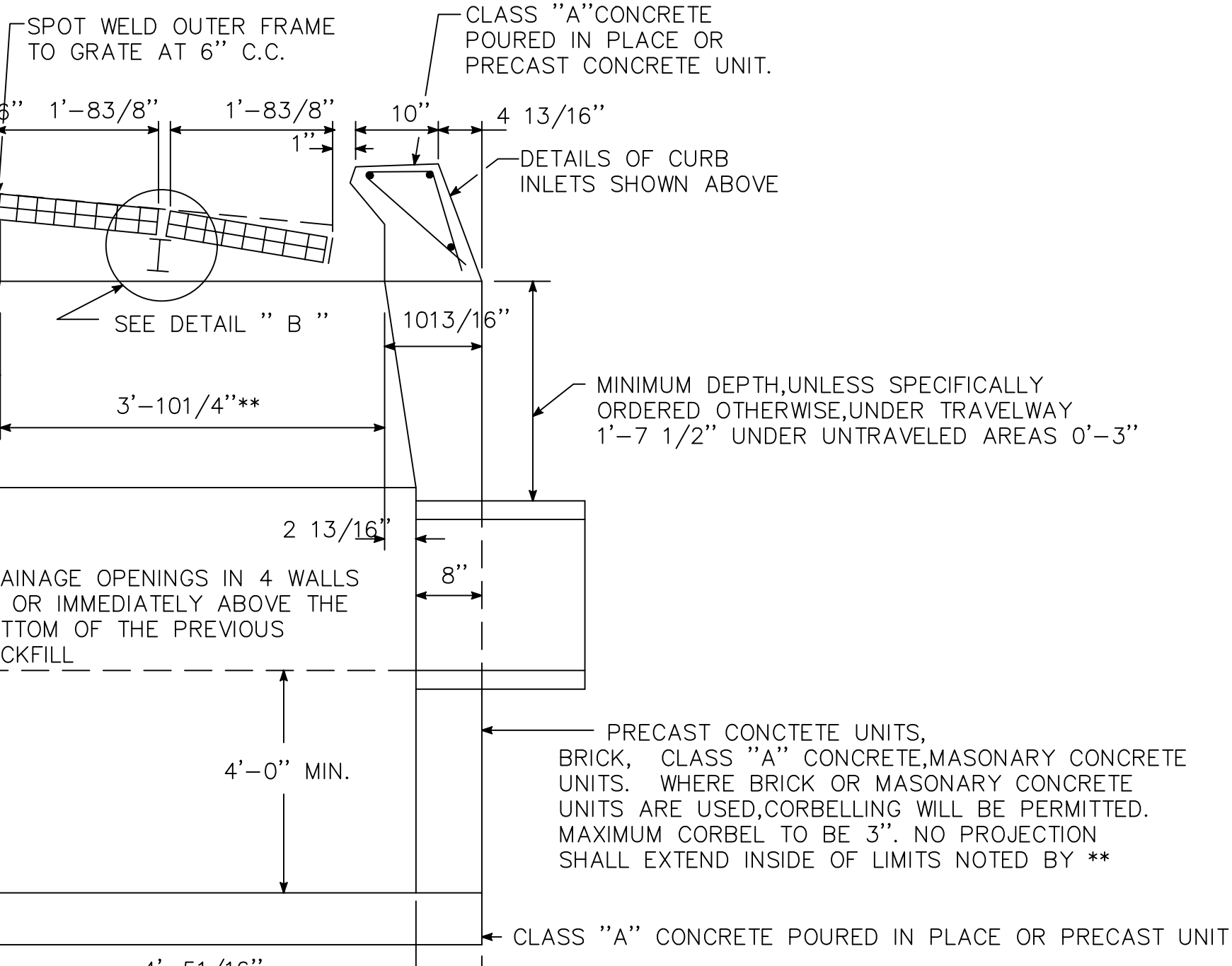
SECTION A-A

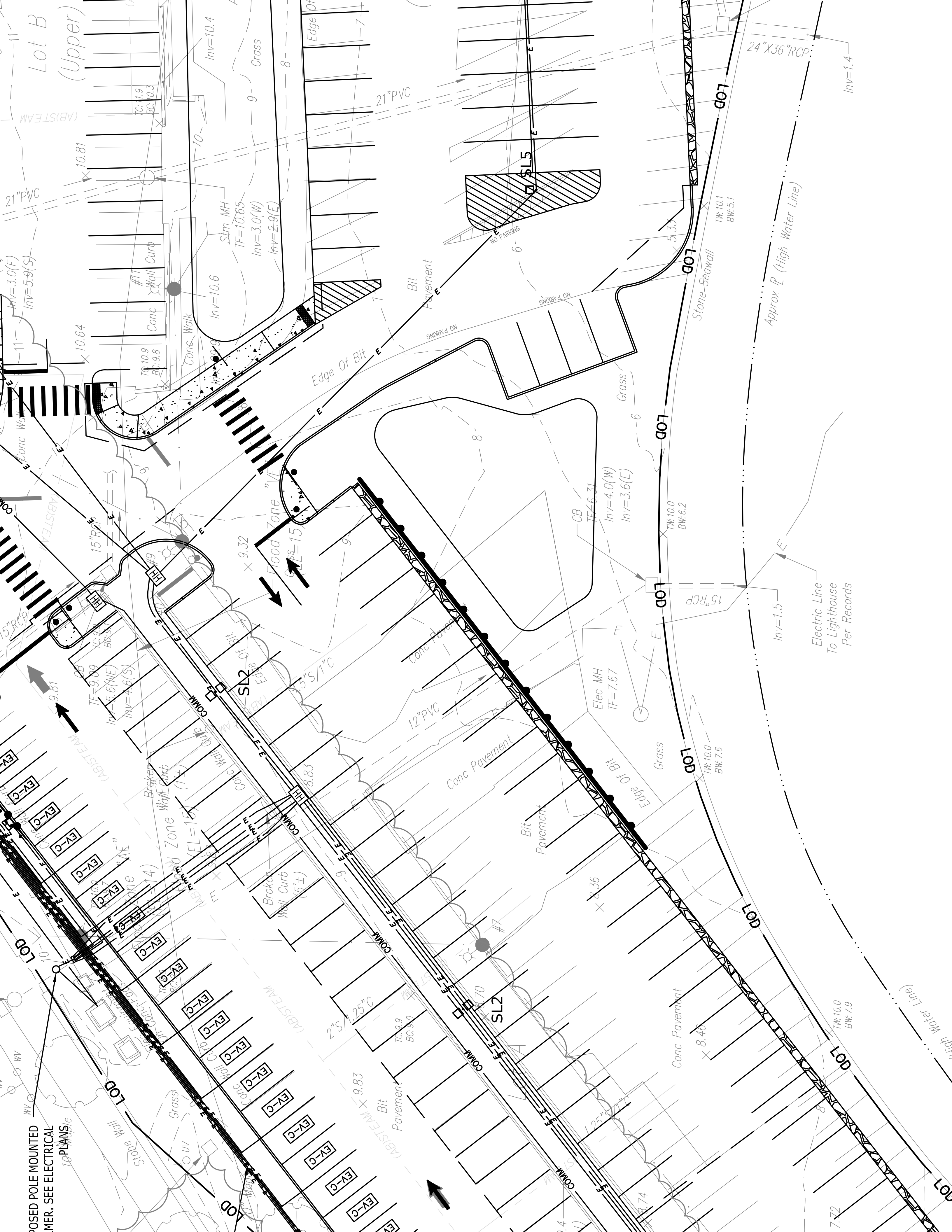
DIMENSIONS ARE FOR REFERENCE ONLY
ACTUAL DIMENSIONS MAY VARY
DIMENSIONS ARE IN INCHES
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST

DRAWN BY EBC	MATERIAL DUCTILE IRON	Nyloplast	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE 03-08-06			
REVISED BY CCA	PROJECT NO./NAME	TITLE 18 IN DOME GRATE	
DATE 08-30-13			
DWG SIZE A	SCALE 1:6 SHEET 1 OF 1	DWG NO. 7001-110-215	REV E

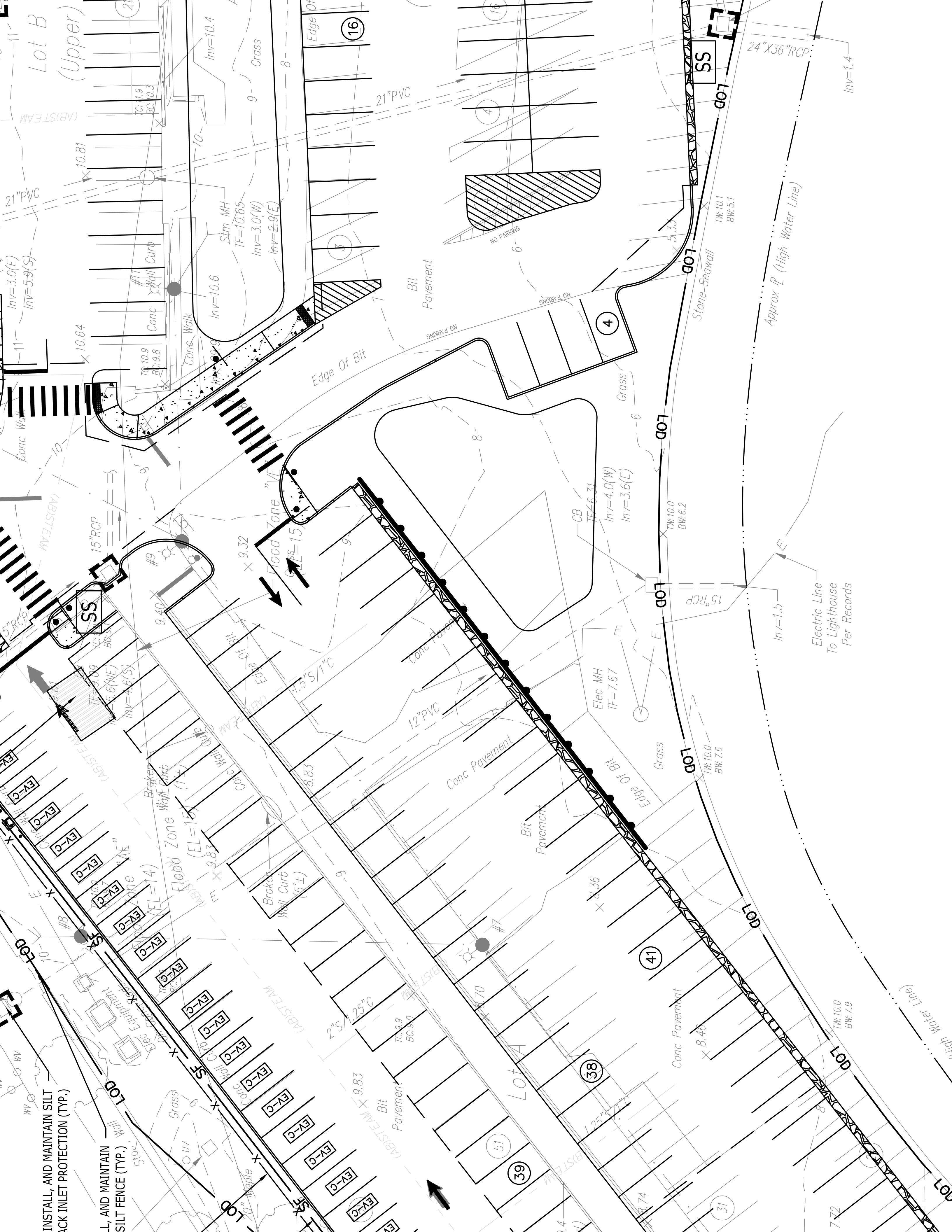
IN EARTH	IN PAVEMENT

AIL OF CURB INLET
LAIN CURB TYPE





Lot B (Upper)
21"PVC
24"X36"RCP
Inv=1.4
Inv=10.4
Grass
Stm MH
TF=10.65
Inv=3.0(W)
Inv=2.9(E)
Inv=10.6
Conc Wall Curb
Conc Walk
TC:10.9 BC:9.8
SL5
NO PARKING
Bit Pavement
Edge Of Bit
LOD
Stone Seawall
TW:10.1 BW:5.1
Approx ℄ (High Water Line)
Flood Zone "VE" (EL=15)
CB
TF=6.31
Inv=4.0(W)
Inv=3.6(E)
TW:10.0 BW:6.2
15"RCP
Inv=1.5
Electric Line
To Lighthouse
Per Records
Elec MH
TF=7.67
12"PVC
Conc Pavement
SL2
COMM
TW:10.0 BW:7.6
CB
TF=9.59
Inv=5.6(NE)
Inv=4.6(S)
Broken Wall Curb (5'±)
EV-C
2"S/1.25"C
Stone Wall
POSED POLE MOUNTED
MER. SEE ELECTRICAL
PLANS
TW:10.0 BW:7.9



Lot B
(Upper)
21"PVC
24"X36"RCP
Inv=1.4
SS
LOD
Stm MH
TF=10.65
Inv=3.0(W)
Inv=2.9(E)
Inv=10.4
Inv=10.6
Inv=3.0(E)
Inv=5.9(S)
Grass
Conc Walk
Wall Curb
Edge Of Bit
Bit Pavement
NO PARKING
Stone Seawall
Approx ℄ (High Water Line)
TW:10.1
BW:5.1
TW:10.0
BW:6.2
TW:10.0
BW:7.6
TW:10.0
BW:7.9
CB
TF=6.31
Inv=4.0(W)
Inv=3.6(E)
15"RCP
Inv=1.5
Electric Line
To Lighthouse
Per Records
Elec MH
TF=7.67
Flood Zone "VE"
(EL=15)
Flood Zone "AE"
(EL=14)
12"PVC
1.5"S/1"C
2"S/1.25"C
1.25"S/1"C
Conc Pavement
Broken Wall Curb
(5'±)
EV-C
Elec Equipment
SF
Lot A
TC:10.9
BC:9.8
TC:9.9
BC:9.0
INSTALL, AND MAINTAIN SILT
INLET PROTECTION (TYP.)
SILT FENCE (TYP.)
20" Maple
16
4
38
39
41
51
31

M EROSION CONTROL STRUCTURES WILL BE DISPOSED IN A MANNER WHICH IS CONSISTENT WITH THE INTENT AND REQUIREMENTS OF THE
CONTROL PLANS, NOTES, AND DETAILS.

ED THE RESPONSIBILITY FOR IMPLEMENTING THIS SEDIMENT AND EROSION CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND
OL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN,
UNICIPALITY AND/OR COUNTY SOILS CONSERVATION DISTRICT AND/OR INLAND WETLANDS COMMISSION OFFICE OR AUTHORITY HAVING
ANSFER OF THIS RESPONSIBILITY AND FOR CONVEYING A COPY OF THE SEDIMENT AND EROSION CONTROL PLAN IF THE TITLE TO THE LAND IS

ROL NOTES
SION CONTROL PLAN IS ONLY INTENDED TO DESCRIBE THE SEDIMENT AND EROSION CONTROL TREATMENT FOR THIS SITE. SEE SEDIMENT AND
LS AND CONSTRUCTION SEQUENCE. REFER TO SITE PLAN FOR GENERAL INFORMATION AND OTHER CONTRACT PLANS FOR APPROPRIATE

SIBLE FOR IMPLEMENTING THIS SEDIMENT AND EROSION CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE PROPER INSTALLATION AND
ENT AND EROSION CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED WITH CONSTRUCTION ON THE SITE OF THE REQUIREMENTS AND
N, INFORMING THE AUTHORITY HAVING JURISDICTION OR COUNTY SOILS CONSERVATION DISTRICT OR INLAND WETLANDS AGENCY OF ANY
ONSIBILITY, AND FOR CONVEYING A COPY OF THE SEDIMENT & EROSION CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.

OND MAY BE REQUIRED TO BE POSTED WITH STATE TO ENSURE IMPLEMENTATION OF THE SEDIMENT AND EROSION CONTROL MEASURES. THE
ESPONSIBLE FOR THE POSTING OF THIS BOND AND FOR INQUIRIES TO THE STATE FOR INFORMATION ON THE METHOD, TYPE AND AMOUNT OF THE
OTHERWISE DIRECTED BY THE OWNER.

S SHALL BE CONDUCTED WEEKLY, AND AFTER EACH MEASURABLE PRECIPITATION EVENT OF 0.25 INCHES OR GREATER BY QUALIFIED PERSONNEL,
ED IN SEDIMENT AND EROSION CONTROL, TO ASCERTAIN THAT THE SEDIMENT AND EROSION CONTROL (E&S) BMPS ARE OPERATIONAL AND
G POLLUTION. A WRITTEN REPORT OF EACH INSPECTION SHALL BE KEPT, AND INCLUDE:
TE CONDITIONS, E&S BMPS, AND COMPLIANCE; AND
THE NAME OF THE PERSON CONDUCTING THE INSPECTION

CONSTRUCT ALL SEDIMENT AND EROSION CONTROLS IN ACCORDANCE WITH CONNECTICUT GUIDELINES FOR SOIL EROSION & SEDIMENT CONTROL,
RDANCE WITH THE CONTRACT DOCUMENTS, AND AS DIRECTED BY THE MUNICIPALITY AND/OR COUNTY SOILS CONSERVATION DISTRICT AND/OR
ISSION. THE CONTRACTOR SHALL KEEP A COPY OF THE GUIDELINES ON-SITE FOR REFERENCE DURING CONSTRUCTION.

ERNATIVE SEDIMENT AND EROSION CONTROL MEASURES MAY BE INSTALLED DURING THE CONSTRUCTION PERIOD IF FOUND NECESSARY BY THE
TE ENGINEER, MUNICIPALITY AND/OR COUNTY SOILS CONSERVATION DISTRICT AND/OR INLAND WETLANDS COMMISSION, OR GOVERNING
CTOR SHALL CONTACT THE OWNER AND APPROPRIATE GOVERNING AGENCIES FOR APPROVAL IF ALTERNATIVE CONTROLS OTHER THAN THOSE SHOWN
OSED.

INSPECT ALL SEDIMENT AND EROSION CONTROLS BEFORE AND AFTER EACH STORM (0.25 INCHES OR GREATER RAINFALL), OR AT LEAST WEEKLY, TO
OLS ARE OPERATING PROPERLY AND MAKE REPAIRS WHERE NECESSARY.

KEEP A SUPPLY OF SEDIMENT AND EROSION CONTROL MATERIAL (HAY BALES, SILT FENCE, JUTE MESH, RIP RAP, ETC.) ON-SITE FOR MAINTENANCE
S.

S THAT ARE TO BE SAVED BY FENCING AT THE DRIP LINE OR AS SHOWN WITH SNOW FENCE, ORANGE SAFETY FENCE, OR EQUIVALENT FENCING. ANY
BE DONE BEFORE CONSTRUCTION BEGINS IN THAT AREA; FENCING SHALL BE MAINTAINED AND REPAIRED DURING CONSTRUCTION.

MENT AND EROSION CONTROLS PRIOR TO CLEARING OR CONSTRUCTION. ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE LIMIT OF
ALL BE MARKED WITH SILT FENCE, SAFETY FENCE, HAY BALES, RIBBONS, OR OTHER MEANS PRIOR TO CLEARING. CONSTRUCTION ACTIVITY SHALL
IDE OF THE SILT FENCE UNLESS WORK IS SPECIFICALLY CALLED FOR ON THE DOWNHILL SIDE OF THE FENCE.

NTRANCE ANTI-TRACKING PADS SHALL BE INSTALLED AT START OF CONSTRUCTION AND MAINTAINED THROUGHOUT THE DURATION OF
ATION OF THE TRACKING PADS MAY CHANGE AS VARIOUS PHASES OF CONSTRUCTION ARE COMPLETED.

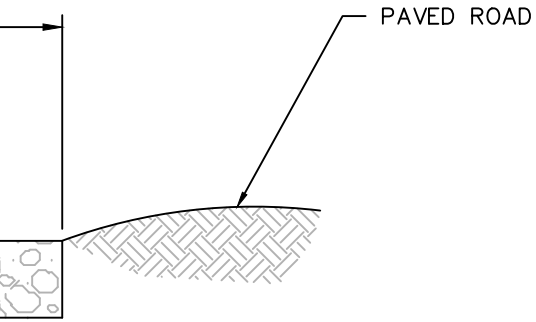
PED AND STOCKPILED FOR USE IN FINAL LANDSCAPING. ALL EARTH STOCKPILES SHALL HAVE HAY BALES OR SILT FENCE AROUND THE LIMIT OF PILE.
RILY SEEDED IF PILE IS TO REMAIN IN PLACE FOR MORE THAN ONE (1) MONTH.

EDIMENT TRAPS SHALL PROVIDE 134 CUBIC YARDS OF SEDIMENT STORAGE PER ACRE CONTRIBUTING TO THE BASIN. PROVIDE BASIN VOLUMES FOR
E.

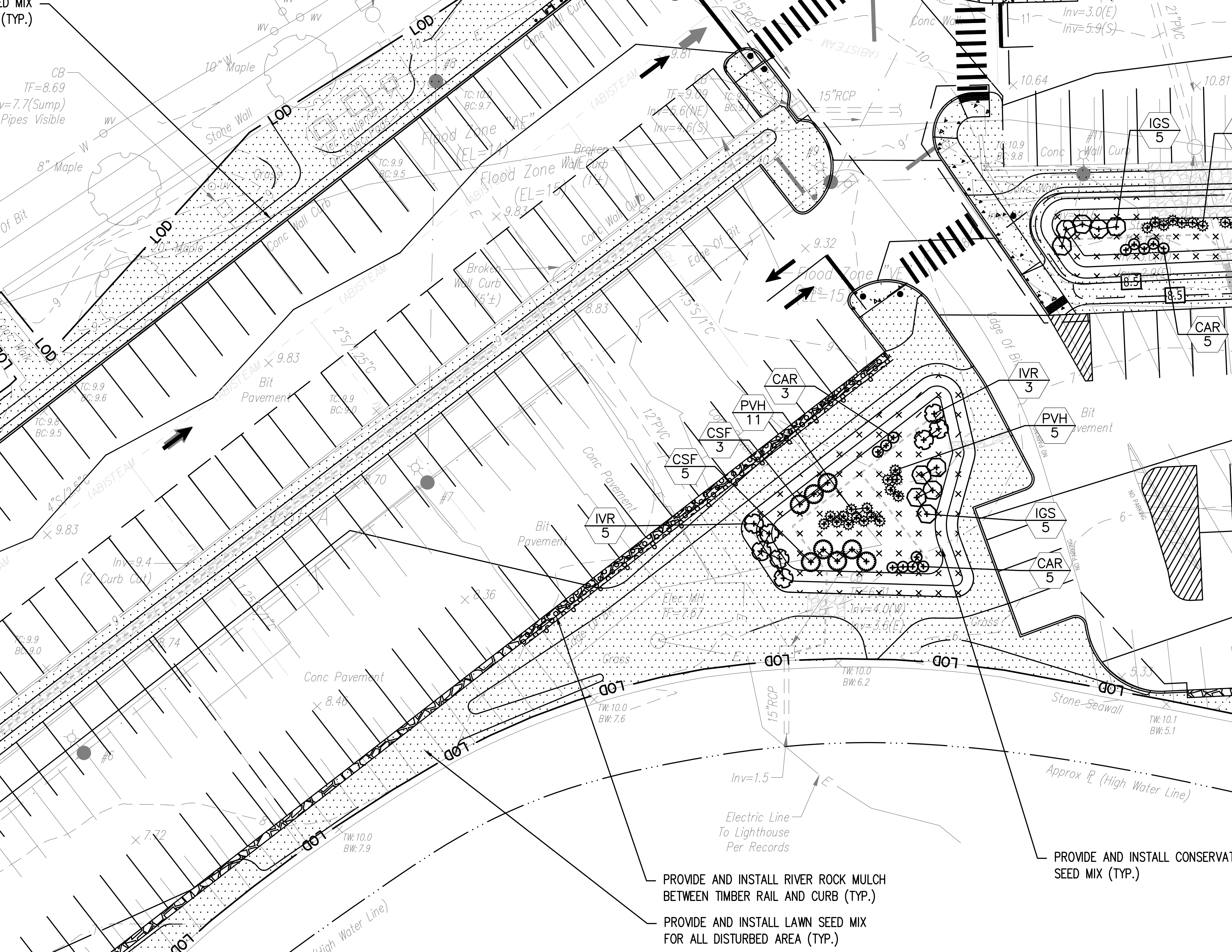
ENTS OF CGS SECTION 22A 430B, FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES AND WITH CTDEEP RECORD KEEPING AND
ITS.

MATERIALS STOCKPILE DETAIL

N.T.S. BLEC–006



UB–BASE OF FREE DRAINING BACKFILL
STABILIZATION GEOTEXTILE AS
Y ON UNSTABLE SOILS.


PROVIDE AND INSTALL CONSERVAT
SEED MIX (TYP.)
PROVIDE AND INSTALL RIVER ROCK MULCH
BETWEEN TIMBER RAIL AND CURB (TYP.)
PROVIDE AND INSTALL LAWN SEED MIX
FOR ALL DISTURBED AREA (TYP.)
IGS 5
CAR 5
CAR 3
PVH 11
CSF 3
CSF 5
IVR 5
IVR 3
PVH 5
Flood Zone "AE" (EL=14)
Flood Zone (EL=15)
Flood Zone "VE" (EL=15)
Bit Pavement
Conc Pavement
Stone Seawall
Approx ℄ (High Water Line)
Electric Line To Lighthouse Per Records
LOD

DO NOT
IN CONTAC
TRUNK

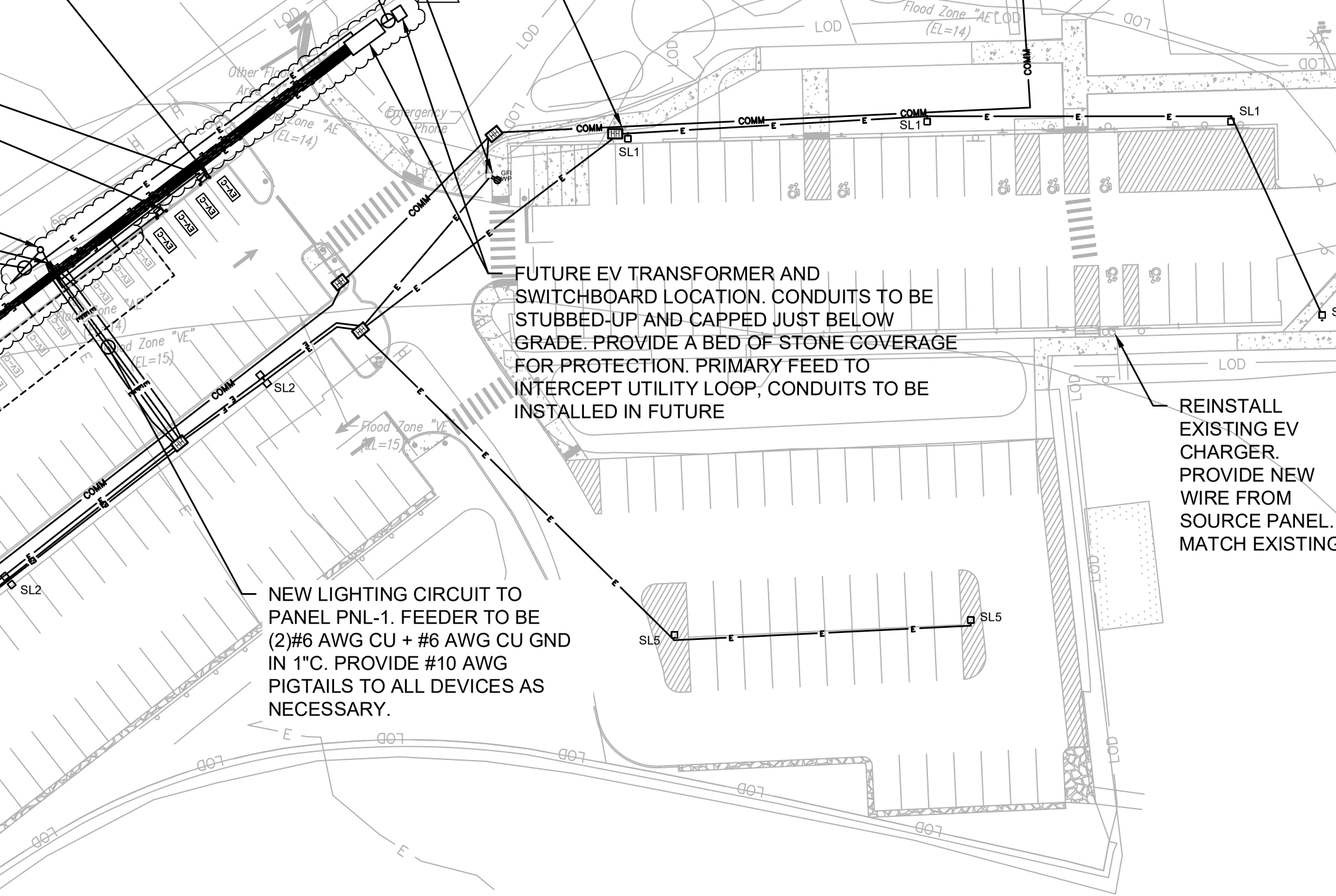
SET
BALL A
ABO

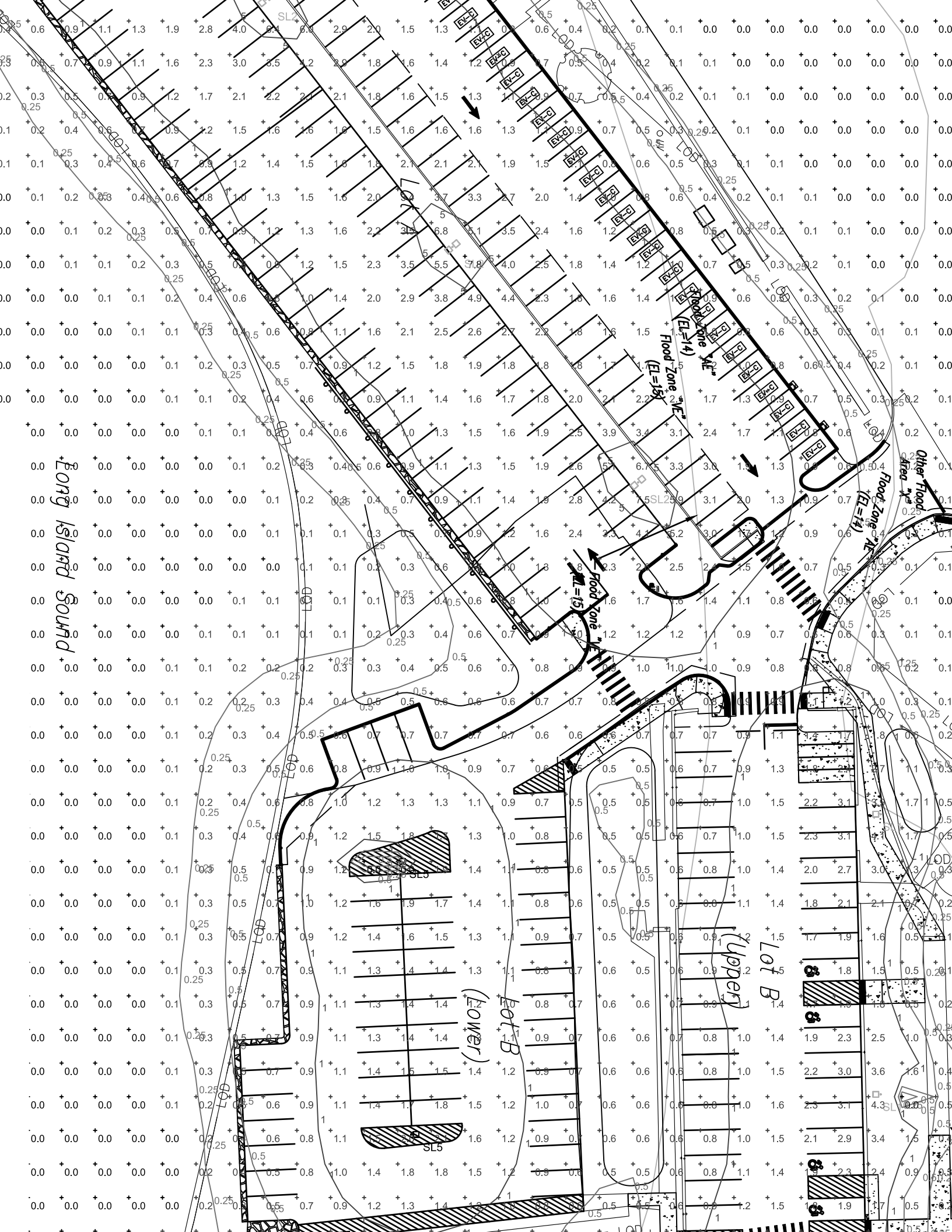
FI

CUT BUR
1/3

SHRUB PIT FACE 1:1 SL
GLAZED SIDES OR HARDE
PRIOR TO PLANT

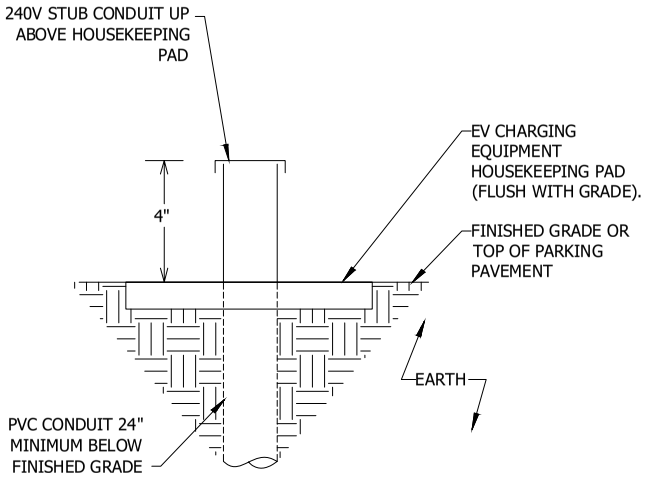

Lot B
(Upper)
Lot B
(Lower)
Lot A
#8
#9
#11
#7
#6
1
Flood Zone "AE"
(EL=14)
Flood Zone "VE"
(EL=15)
Flood Zone "VE"
(EL=15)
UV
NO PARKING
EXISTING FEEDER
TO LIGHTHOUSE TO
REMAIN
Long Island Sound


FUTURE EV TRANSFORMER AND SWITCHBOARD LOCATION. CONDUITS TO BE STUBBED-UP AND CAPPED JUST BELOW GRADE. PROVIDE A BED OF STONE COVERAGE FOR PROTECTION. PRIMARY FEED TO INTERCEPT UTILITY LOOP, CONDUITS TO BE INSTALLED IN FUTURE
REINSTALL EXISTING EV CHARGER. PROVIDE NEW WIRE FROM SOURCE PANEL. MATCH EXISTING
NEW LIGHTING CIRCUIT TO PANEL PNL-1. FEEDER TO BE (2)#6 AWG CU + #6 AWG CU GND IN 1"C. PROVIDE #10 AWG PIGTAILS TO ALL DEVICES AS NECESSARY.
SL1
SL2
SL5
COMM
LOD
Flood Zone "AE" (EL=14)
Flood Zone "VE" (EL=15)
Emergency Phone
GFI WP


Long Island Sound
LOD
Flood Zone "AE" (EL=14)
Flood Zone "AE" (EL=15)
Flood Zone "AE" (EL=15)
Flood Zone "AE" (EL=14)
Other Flood Area "X"
Lot B (Lower)
Lot B (Upper)
Lot B
EV-C
SL2
SL5

PICAL DUCT BANK DETAIL

TO SCALE



NOTE : CONDUIT SHALL BE PROVIDED WITH PULL CORD INSTALLED AND WITH TRACER WIRE.

EV CHARGER EQUIPMENT HOUSEKEEPING PAD (CONCRETE SLAB) IS LOCATED IN THE GRASS.

SECTION VIEW

LEVEL
BELOW

NEW L
HEIGH
POLE

NOTES

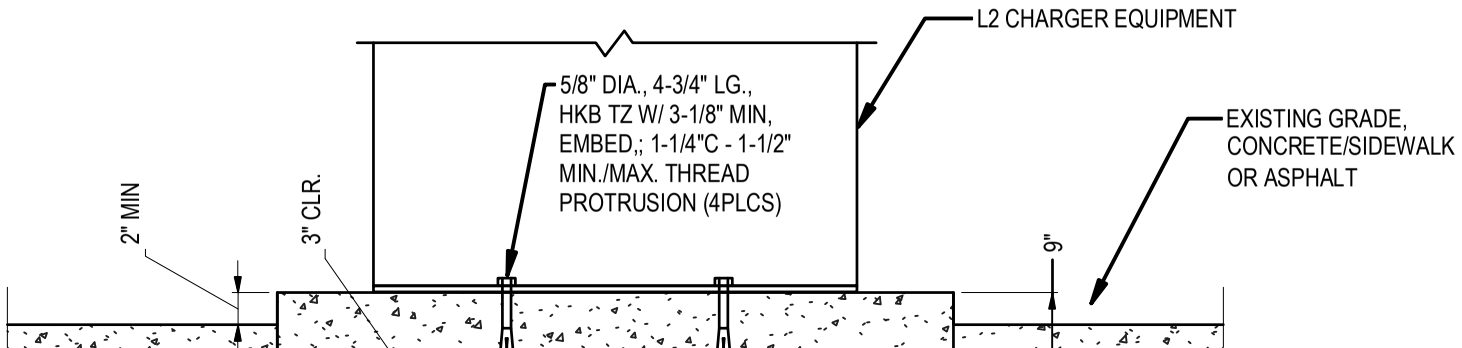
1. CONCRETE SHALL BE
   STRENGTH WITH 5 TO
2. CONCRETE SHALL BE
   EXCAVATION (NO PRE
3. SHALLOW ROCK IS AN
   MINIMUM OF 6'-0" PRI
4. CALCULATED WIND IS
5. CALCULATED FLOOD/
   ZONE VE WITH A BASI

5

CONDUIT STUB UP DETAIL FOR EV CHARGERS

NOT TO SCALE

6



DESIGNER NOTE
1. COORDIN
METHOD
RECOMM

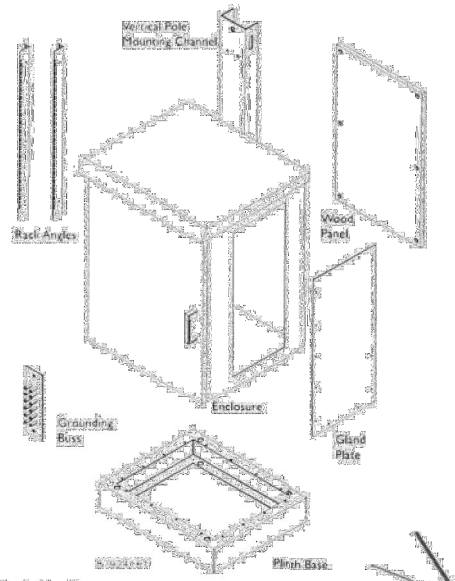
10. TLRD5, TLRD7 and TLRPC receptacle pins 4 & 5 are capped off when ordered with any of the Dimming controls DD or FAWS or LLC.
11. Not available in 480V. Order photocell separately with TLRD5/7.
18. 0–10V dimming driver standard.
19. LCL and RCL not available with 48L-1.2A or 64L-1A.

Declare. interact DARKSKY APPROVED DLC LISTED PREMIUM DLC LISTED cULus

Hoffman

COMLINE® OSP
Wall-Mount Cabinet Packages

Bulletin DCOM



Gland Plate

Gland plates are made of .100 in. thick aluminum, finished to match the cabinet. They include a factory-installed foam-in-place gasket, stainless steel hardware, and grounding provision. The installed gland plate maintains the cabinet rating.

NOTE: Package includes solid gland plate.

Catalog Number	Description	Nominal Height x Width (P x Q) (mm)
EGPS1	Solid small	508 x 381
EGPS2	Solid large	838 x 381
EGPACT15	AC cutout for T15	508 x 381
EGPACT20	AC cutout for T20	838 x 381
EGPACCR29	AC cutout for CR23	838 x 381
EGPHX20	Heat exchanger cutout for XR20	838 x 381
EGPHX29	Heat exchanger cutout for XR29	838 x 381

Plinth Base

The plinth base enables pad mounting and provides additional cable management space. It adds an additional 5.00 in. (127mm) height to the cabinet. The base is made of aluminum painted RAL 7035 Light Gray.

Catalog Number	Description	Use with Cabinet (Width x Depth)
EPL7060	Plinth base	700 x 600mm

Ground Buss

This copper ground buss provides wiring tie points within the cabinet. Mounts on studs provided on cabinet side. Tie point spacing is 3/4 in. pair to pair and 5/8 in. across each pair. Ground studs are 1/4-20 x .75 in. on 3/4 in. centers.

Catalog Number	Description
EGBB1	6 position, double lug buss
EGBB2	12 position, double lug buss

Rack Angles

Rack angles are made of 12 gauge, self-grounding placed steel and are grounded to the cabinet body through the mounting bolts. Square mounting holes meet EIA standard.

NOTE: Package includes one pair.

Catalog Number	Rack Width	RU	Use with Cabinet (Height x Width)
ERA196S	19 in.	12	600 x 600mm
ERA199S	19 in.	18	900 x 600mm
ERA19239S	19 or 23 in.	18	900 x 700mm
ERA192312S	19 or 23 in.	25	1200 x 700mm

Vertical Pole Mount Channel

Vertical pole mount channel facilitates pole-mounting the COMLINE® package. It includes the bracket and hardware to mount the channel to the cabinet. No drilling into cabinet required to install.

Catalog Number	Description	Use with Cabinet
EPMC6	Vertical Pole Mount Channel 600	600mm tall
EPMC9	Vertical Pole Mount Channel 900	900mm tall
EPMC12	Vertical Pole Mount Channel 1200	1200mm tall

Wood Panel

Wood panels are made of 3/4 in. plywood, precut and predrilled to install on panel mounting studs in the rear of the cabinet.

Catalog Number	Height x Width (mm)	Use with Cabinet (Height x Width)
E60P60W	524 x 524	600 x 600mm
E90P60W	824 x 524	900 x 600mm
E90P70W	824 x 624	900 x 700mm
E120P70W	1124 x 624	1200 x 700mm

Accessory Compatibility

CATALOG NUMBER	ECL606050P	ECL906050P	ECL907060P	ECL1207060P
GLAND PLATES				
EGPS1	•			
EGPS2		•	•	•
EGPACT15	•			
EGPACT20		•	•	•
EGPACCR23		•	•	•
EGPHX20		•	•	•
EGPHX2918		•	•	•
POLE MOUNT CHANNELS				
EPMC6	•			
EPMC9		•	•	
EPMC12				•
PLINTH BASE				
EPL70660			•	•
WOOD PANELS				
E60P60W	•			
E90P60W		•		
E90P70W			•	
E120P70W				•
RACK ANGLES				
ERA196S	•			
ERA199S		•		
ERA19239S			•	
ERA192312S				•

1

APPENDIX D

STORMWATER MONITORING REPORTING FORM

Stormwater Construction Site Inspection Report

General Information			
Project Name			
CTDEEP Tracking No.		**Location**	
Date of Inspection		**Start/End Time**	
Inspector's Name(s)			
Inspector's Title(s)			
Inspector's Contact Information			
Inspector's Qualifications			
Describe present phase of construction.			
Type of Inspection: ☐ Regular ☐ Pre-storm event ☐ During storm event ☐ post-storm event			
Weather Information			
Has there been a storm event since the last inspection? ☐Yes ☐No **If yes, provide:**			
Weather at time of this inspection? ☐ Clear ☐Cloudy ☐ Rain ☐ Sleet ☐ Fog ☐ Snowing ☐ High Winds ☐ Other: Temperature:			
Have any discharges occurred since the last inspection? ☐Yes ☐No **If yes, describe:**			
Are there any discharges at the time of inspection? ☐Yes ☐No **If yes, describe:**			

Site-specific BMPs

- *Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required BMPs at your site.*
- *Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.*

	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	Anti-Tracking Pad	☐Yes ☐No	☐Yes ☐No	
2	Erosion Control Blanket	☐Yes ☐No	☐Yes ☐No	
3	Inlet Protection	☐Yes ☐No	☐Yes ☐No	
4	Silt Fence	☐Yes ☐No	☐Yes ☐No	

	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
5	Soil Stockpiles	☐Yes ☐No	☐Yes ☐No	
6	Temporary Seed & Mulch	☐Yes ☐No	☐Yes ☐No	
7	Dust Control	☐Yes ☐No	☐Yes ☐No	
8	Washout Areas	☐Yes ☐No	☐Yes ☐No	
9	Waste Disposal	☐Yes ☐No	☐Yes ☐No	
10	Rain Gauge	☐Yes ☐No	☐Yes ☐No	
11	Temporary Sediment Trap	☐Yes ☐No	☐Yes ☐No	
12	Site Sweeping	☐Yes ☐No	☐Yes ☐No	
13	Check dams	☐Yes ☐No	☐Yes ☐No	

Overall Site Issues

Below are some general site issues that should be assessed during inspections. Customize this list as needed for conditions at your site.

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	☐Yes ☐No	☐Yes ☐No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	☐Yes ☐No	☐Yes ☐No	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	☐Yes ☐No	☐Yes ☐No	
4	Are discharge points and receiving waters free of any sediment deposits?	☐Yes ☐No	☐Yes ☐No	
5	Are storm drain inlets properly protected?	☐Yes ☐No	☐Yes ☐No	
6	Is the construction exit preventing sediment from being tracked into the street?	☐Yes ☐No	☐Yes ☐No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	☐Yes ☐No	☐Yes ☐No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	☐Yes ☐No	☐Yes ☐No	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	☐Yes ☐No	☐Yes ☐No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	☐Yes ☐No	☐Yes ☐No	

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
11	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	☐Yes ☐No	☐Yes ☐No	
12	(Other)	☐Yes ☐No	☐Yes ☐No	

Non-Compliance

Describe any incidents of non-compliance not described above:

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name and title:_____

Signature_____ **Date:** _____

APPENDIX E

NOTICE OF TERMINATION

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

Notice of Termination Form

Please complete and submit this form in accordance with the general permit (DEP-PED-GP-015) in order to ensure the proper handling of your termination. Print or type unless otherwise noted.

Note: Ensure that for commercial and industrial facilities, registrations under the *General Permit for the Discharge of Stormwater Associated with Industrial Activity* (DEP-PED-GP-014) or the *General Permit for the Discharge of Stormwater from Commercial Activities* (DEP-PED-GP-004) have been filed where applicable. For questions about the applicability of these general permits, please call the Department at 860-424-3018.

Part I: Registrant Information

1. Permit number: ***GSN***
2. Fill in the name of the registrant(s) as indicated on the registration certificate:

   Registrant:
3. Site Address:

   City/Town: State: Zip Code:
4. Date all storm drainage structures were cleaned of construction sediment:

   Date of Completion of Construction:

   Date of Last Inspection (must be at least three months after final stabilization pursuant to Section 6(b)(6)(D) of the general permit):
5. Check the post-construction activities at the site (check all that apply):

   ☐ Industrial ☐ Residential ☐ Commercial ☐ Capped Landfill

   ☐ Other (describe):

Part II: Certification

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."

Signature of Permittee	Date
Name of Permittee (print or type)	Title (if applicable)

Note: Please submit this Notice of Termination Form to:

STORMWATER PERMIT COORDINATOR
BUREAU OF WATER MANAGEMENT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127