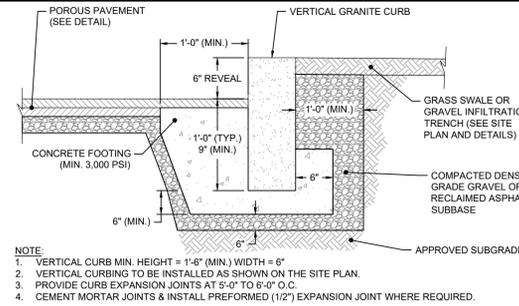
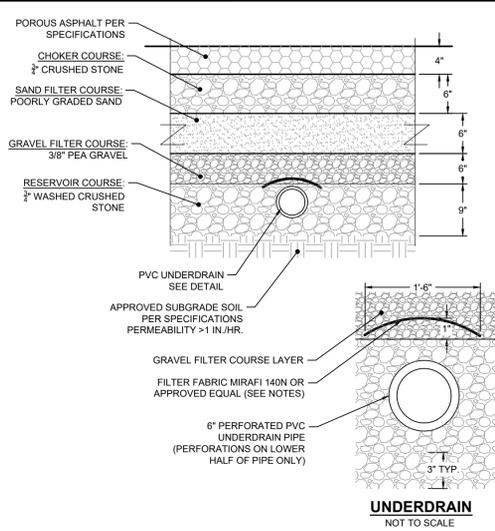
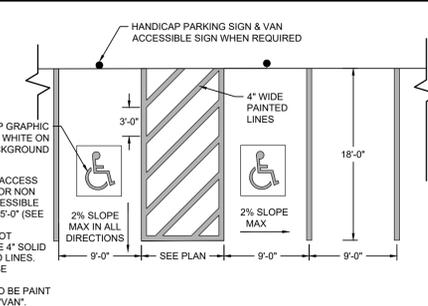


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VERTICAL CURB (DR LORDS ONLY)  
NOT TO SCALE

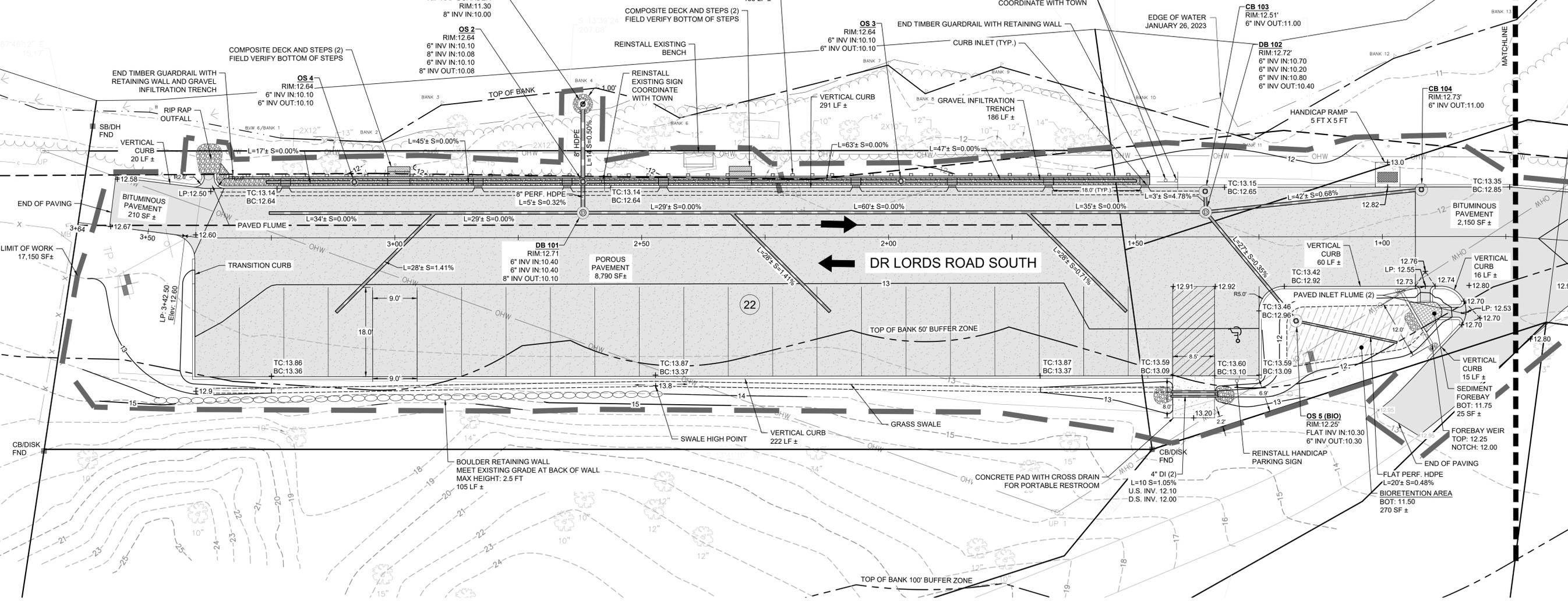


HANDICAPPED & STANDARD PARKING SPACES  
NOT TO SCALE

- GENERAL NOTES:
1. SANDY LOAM AND/OR LOAMY SAND TOPSOIL MATERIAL SHALL BE EXCAVATED FROM ALL PAVED AREAS PRIOR TO SUB-BASE INSTALLATION.
  2. SUB-GRADE (EXISTING MATERIAL) SHALL CONSIST OF INERT MATERIAL THAT IS HARD, DURABLE STONE AND/OR COARSE SAND, FREE FROM LOAM AND CLAY TO A DEPTH NOT LESS THAN 4-FT BELOW THE FINISH PAVEMENT SURFACE.
  3. SEE SPECIFICATIONS FOR COMPACTION REQUIREMENTS.
  4. SEE SITE LAYOUT PLAN FOR PAVEMENT WIDTH AND LOCATION.
  5. SEE GRADING PLANS FOR PAVEMENT SLOPE AND GROSS SLOPE. FILTER COURSE DEPTH MAY BE INCREASED AS NEEDED TO MEET FINISH AND SUBGRADE REQUIREMENTS.
  6. FILTER FABRIC ABOVE UNDERDRAIN SHALL EXTEND VERTICALLY 1-INCH INTO THE GRAVEL FILTER BLANKET LAYER & HORIZONTALLY 6" OFF THE CENTER OF THE UNDERDRAIN PIPE.

POROUS PAVEMENT WITH UNDERDRAIN (DR LORDS ONLY)  
NOT TO SCALE

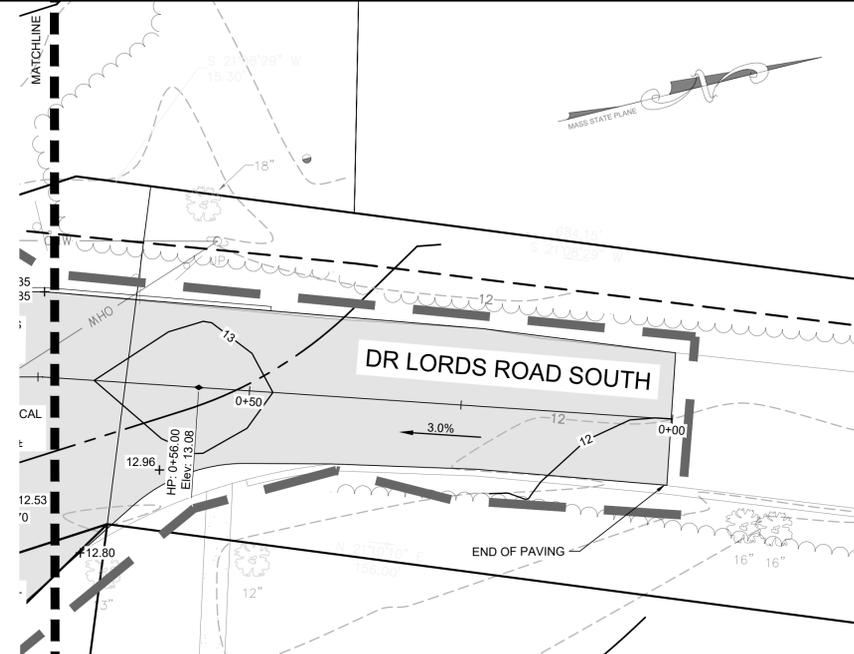
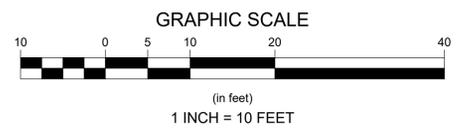
OS 1 (OVERFLOW BUBBLER)  
NOT TO SCALE



SCARGO LAKE

DR LORDS ROAD SOUTH

- DRAINAGE NOTES:
1. ALL PIPE TO BE 6" PERFORATED HDPE PIPE UNLESS OTHERWISE NOTED.
  2. SEE SCHEDULE ON C-6 FOR STRUCTURE DIAMETER AND FRAME/GRATE.



Revisions	Date	By	Appr.	Description

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Checked By: EVH  
Designed By: EVH  
Date: JUNE 2024

DR LORDS & SCARGO LAKE LANDING  
CAPE COD BOAT RAMP STORMWATER  
RETROFIT PROJECT- CONSTRUCTION PLANS  
DENNIS, MASSACHUSETTS

DR LORDS SITE & GRADING PLAN

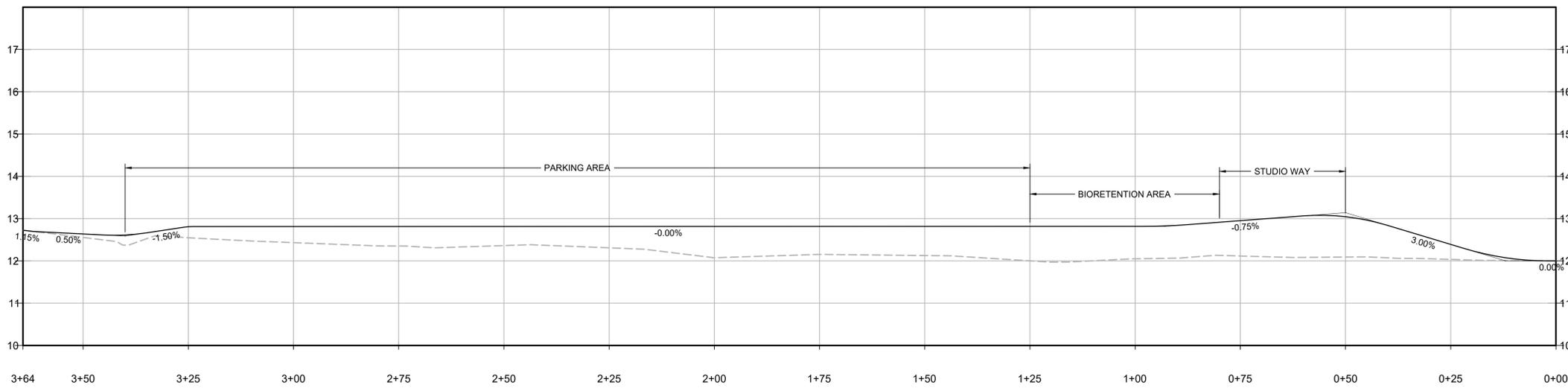
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Fax: (508) 833-3150  
Date: January 25, 2023



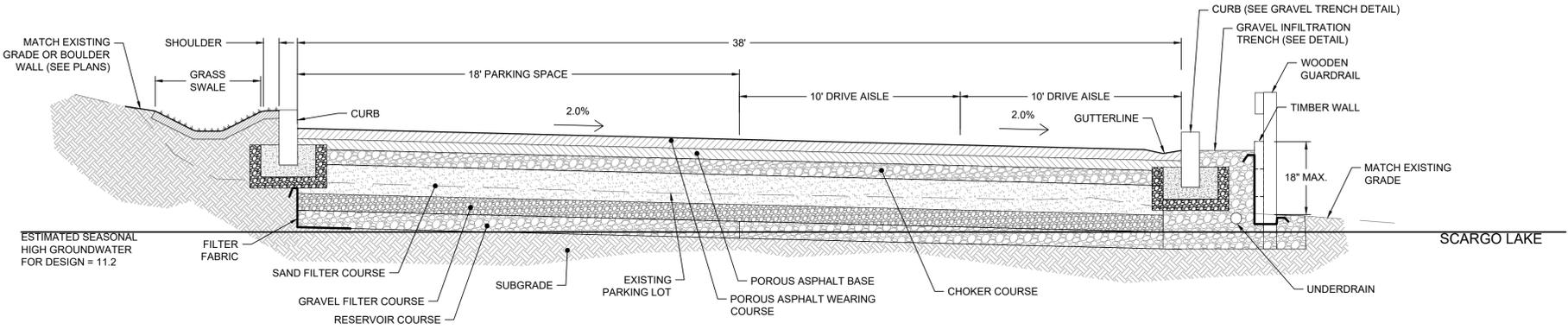
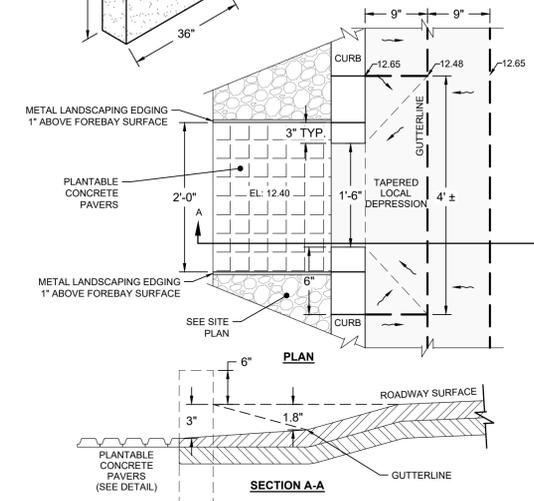
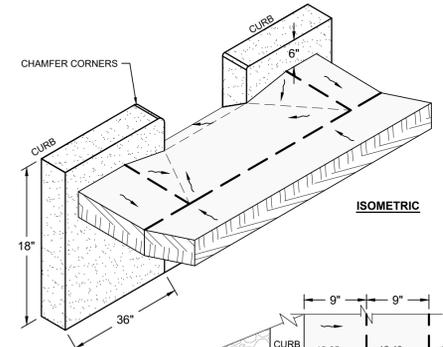
Project Number: 22032A  
Sheet: 5 of 13  
Sheet Number: C-5

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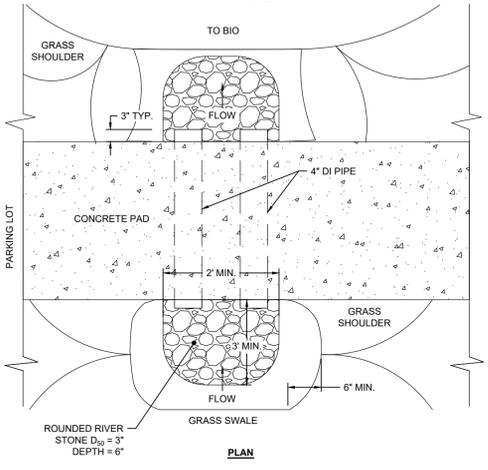
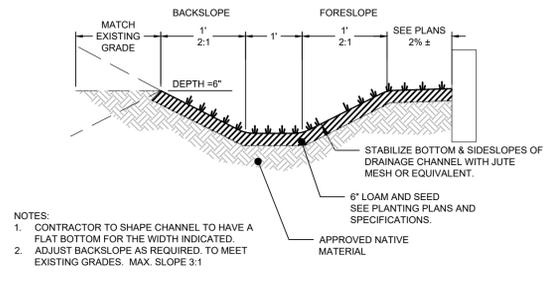
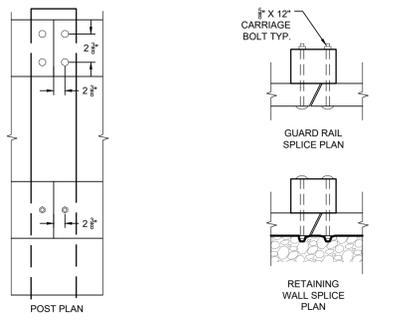
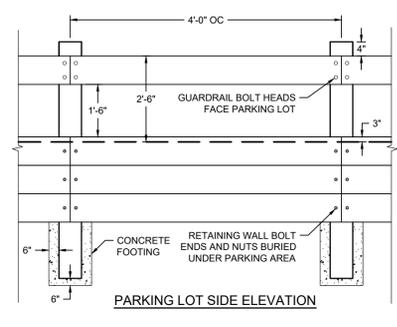
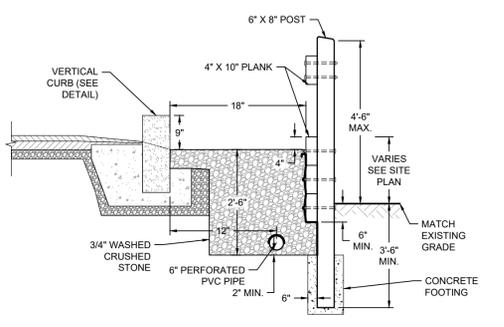


**DR LORDS PARKING CENTER PROFILE**  
 HORIZONTAL SCALE: 1" = 15'  
 VERTICAL SCALE: 1" = 1.5'

STRUCTURE SCHEDULE		
NAME	INNER DIAMETER	COVER TYPE
CB 103	24 IN.	FLAT GRATE
CB 104	24 IN.	FLAT GRATE
DB 101	24 IN.	FLAT COVER
DB 102	24 IN.	FLAT COVER
OS 1 (OVERFLOW BUBBLER)	24 IN.	DOMED GRATE
OS 2	15 IN.	DOMED GRATE
OS 3	15 IN.	DOMED GRATE
OS 4	15 IN.	DOMED GRATE
OS 5 (BIO)	24 IN.	DOMED GRATE



**TYPICAL POROUS PARKING LOT SECTION (DR LORDS ONLY)**  
 NOT TO SCALE



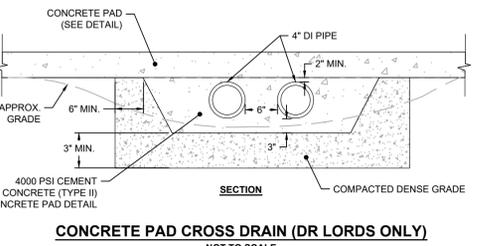
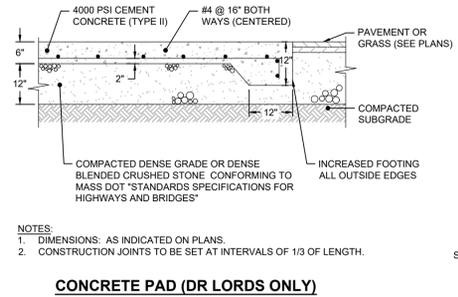
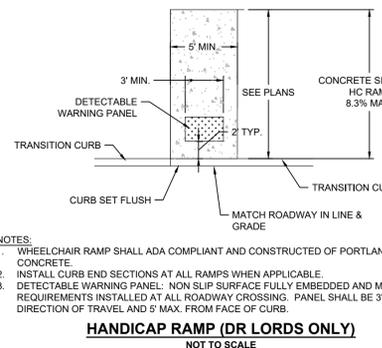
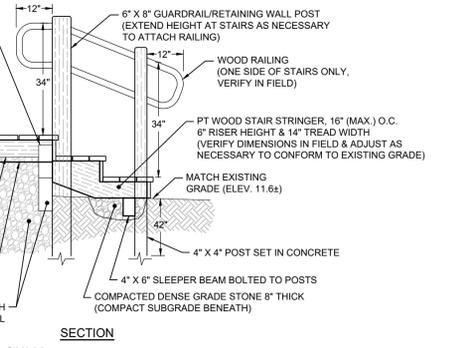
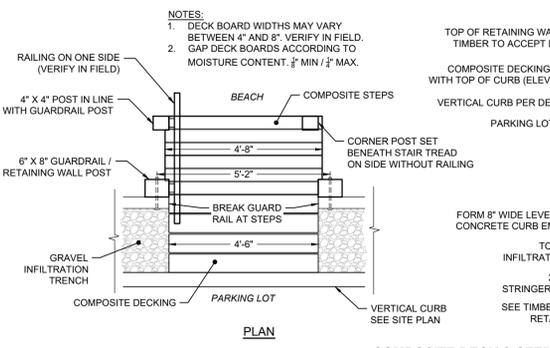
**GRAVEL INFILTRATION TRENCH AND VERTICAL CURB (DR LORDS ONLY)**  
 NOT TO SCALE

**TIMBER GUARDRAIL WITH RETAINING WALL (DR LORDS ONLY)**  
 NOT TO SCALE

**PLANK SPICE DETAIL**

**GRASS SWALE (DR LORDS ONLY)**  
 NOT TO SCALE

**CONCRETE PAD CROSS DRAIN (DR LORDS ONLY)**  
 NOT TO SCALE



- NOTES:
1. WHEELCHAIR RAMP SHALL ADA COMPLIANT AND CONSTRUCTED OF PORTLAND CEMENT CONCRETE.
  2. INSTALL CURB END SECTIONS AT ALL RAMP WHEN APPLICABLE.
  3. DETECTABLE WARNING PANEL: NON SLIP SURFACE FULLY EMBEDDED AND MEETING ADA REQUIREMENTS INSTALLED AT ALL ROADWAY CROSSING. PANEL SHALL BE 3" MIN. IN WIDTH IN DIRECTION OF TRAVEL AND 6" MAX. FROM FACE OF CURB.

- NOTES:
1. CONTRACTOR TO SHAPE CHANNEL TO HAVE A FLAT BOTTOM FOR THE WIDTH INDICATED.
  2. ADJUST BACKSLOPE AS REQUIRED, TO MEET EXISTING GRADES. MAX. SLOPE 3:1

Revisions

Rev	Date	By	Appr	Description
1				
2				
3				
4				
5				

**Horsley Witten Group, Inc.**  
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 Date: JUNE 2024

DR LORDS & SCARGO LAKE LANDING  
 CAPE COD BOAT RAMP STORMWATER  
 RETROFIT PROJECT- CONSTRUCTION PLANS  
 DENNIS, MASSACHUSETTS

DR LORDS PROFILE & CROSS SECTION

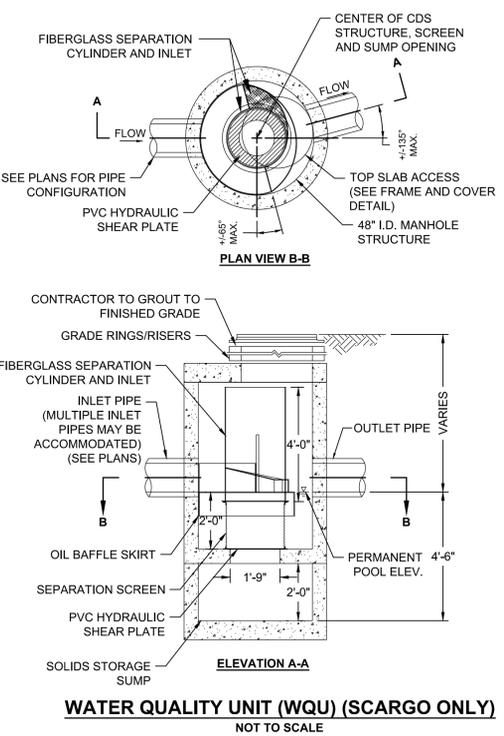
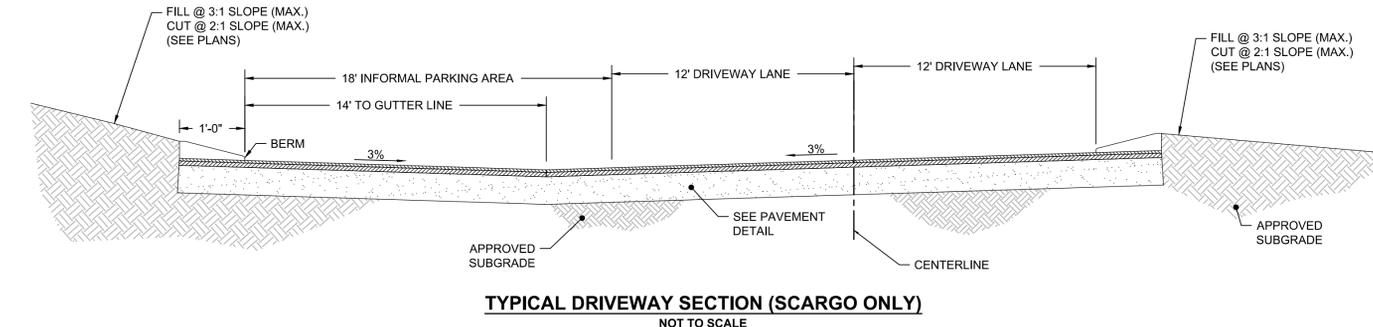
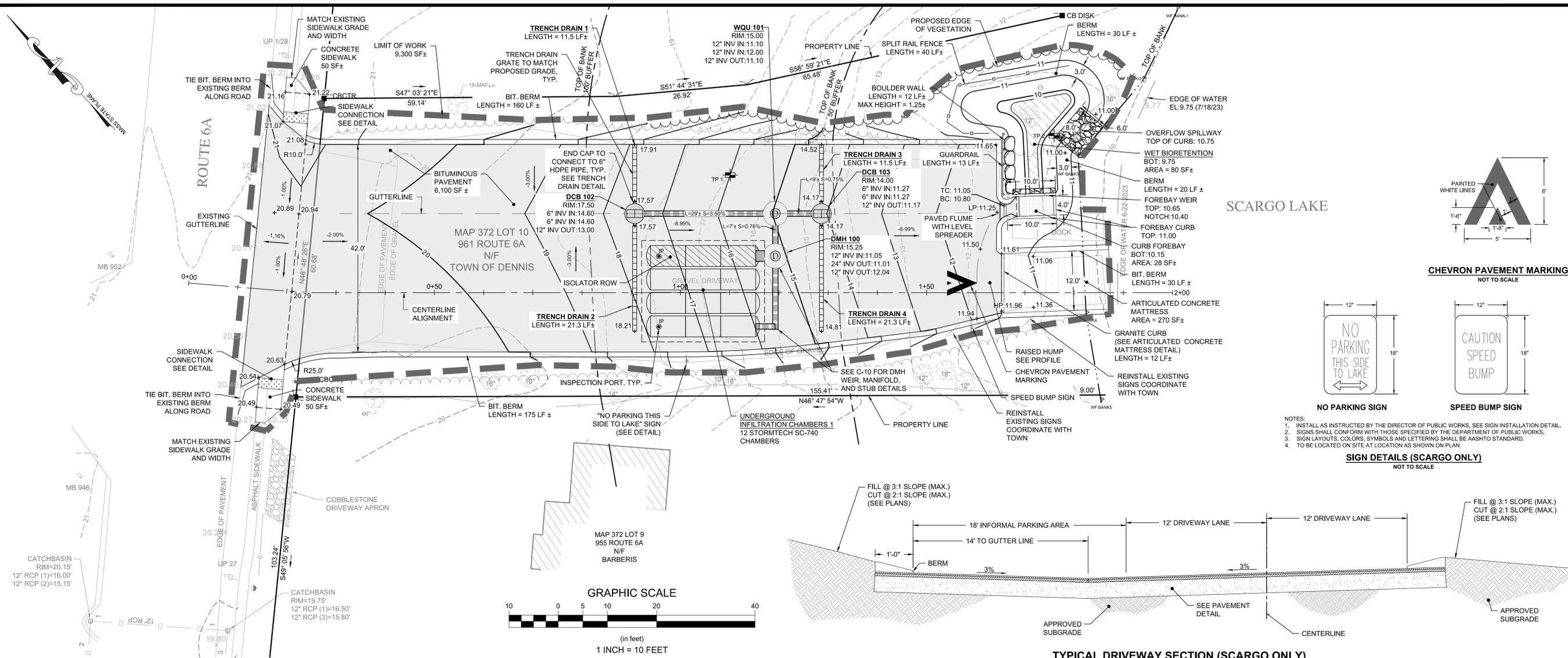
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 Date: January 25, 2023

Registration:  
  
 Project Number: 22032A  
 Sheet: 6 of 13

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**C - 6**

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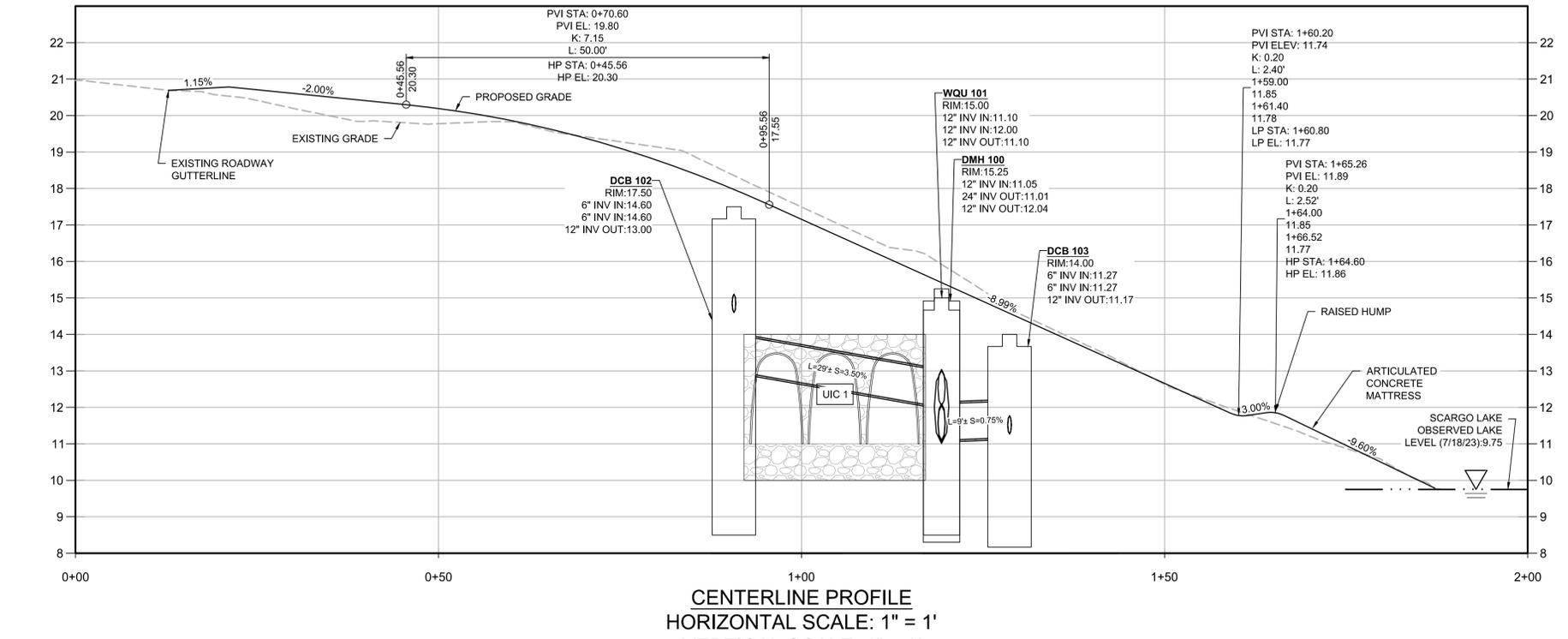


**GENERAL NOTES**

- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
- DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
- FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH CONSTRUCTION PRODUCTS REPRESENTATIVE.  
www.contech-cpi.com
- CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
- STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
- PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

**INSTALLATION NOTES**

- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
- CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
- CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
- CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.



**Revisions**

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**DR LORDS & SCARGO LAKE LANDING**  
**CAPE COD BOAT RAMP STORMWATER**  
**RETROFIT PROJECT- CONSTRUCTION PLANS**  
**DENNIS, MASSACHUSETTS**

**SCARGO SITE & GRADING PLAN**

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Registration: **RICHARD A. CLAYTON**  
CIVIL ENGINEER  
No. 45116  
EXPIRES 12/31/2025

Project Number: **22032A** Sheet: **7 of 13**

Sheet Number: **C-7**