OPERATION & MAINTENANCE MANUAL

DFI No.: D00835 Facility Type: Water Quality Bioretention Pond



November, 2018

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1. Identification

Drainage Facility ID (DFI):	D00835
Facility Type:	Water Quality Bioretention Pond
Construction Drawings:	49V-019
Location:	District: 08
	Highway No.: 022
	Mile Post: 2.37; 2.51 (beg./end)
	Description: This facility is located along the east side of the OR 62 Expressway to the south of the Coker Butte Rd. overpass. Access is located via the OR 62 Expressway.

2. Facility Contact Information

Contact the Engineer of Record, Region Technical Center, or Geo-Environmental's Senior Hydraulics Engineer for:

- Operational clarification
- Maintenance clarification
- Repair or restoration assistance

Engineering Contacts:

Region Technical Center Hydro Unit Manager

Or

Geo-Environmental Senior Hydraulics Engineer (503) 986-3365.

3. Construction

Engineer of Record: Facility construction: Contractor: Ben Wewerka – OBEC Consulting Engineers 2018 LTM, Inc. dba Knife River Materials

4. Storm Drain System and Facility Overview

A water quality bioretention pond is a basin that is designed to capture stormwater runoff and infiltrate it through a water quality mixture to remove pollutants. Pollutant removal is accomplished through physical, biological, and chemical treatment processes. The size of these facilities depends on the location and the amount of contributing impervious area.

This bioretention pond is located along the east side of the OR 62 Expressway to the south of the Coker Butte Rd. overpass. The drainage is collected by a series of inlets and conveyed to the facility by multiple 12inch storm pipes. Drainage from ditches to the south is also conveyed to the pond by a 42-inch storm pipe. The drainage area includes northbound and southbound lanes of the OR 62 Expressway. All stormwater is conveyed into the bioretention pond and drains out through a Type D Outlet structure and outfalls into Upton Creek; see the Operational Plan, Appendix A.

- A. Maintenance equipment access: The facility can be accessed by a gate located along the east side of the OR 62 Expressway.
- B. Heavy equipment access into facility:

☐ Allowed (no limitations)
 ☑ Allowed (with limitations)
 □ Not allowed

C. Special Features:

Amended Soils
Porous Pavers
Liners
Underdrains

5. Facility Haz Mat Spill Feature(s)

The water quality bioretention pond can be used to store a volume of liquid by blocking the Type D outlet structure.

6. Auxiliary Outlet (High Flow Bypass)

Auxiliary Outlets are provided if the primary outlet control structure can not safely pass the projected high flows. Broad-crested spillway weirs and over flow risers are the two most common auxiliary outlets used in stormwater treatment facility design. The auxiliary outlet feature is either a part of the facility or an additional storm drain feature/structure.

The auxiliary outlet feature for this facility is:

☑ Designed into facility

 \Box Other, as noted below

7. Maintenance Requirements

Routine maintenance table for non-proprietary stormwater treatment and storage/detention facilities have been incorporated into ODOT's Maintenance Guide. These tables summarize the maintenance requirements for ponds, swales, filter strips, bioslopes, and detention tanks and vaults. Special maintenance requirements in addition to the routine requirements are noted below when applicable.

The ODOT Maintenance Guide can be viewed at the following website:

http://www.oregon.gov/ODOT/HWY/OOM/MGuide.shtml

Maintenance requirements for proprietary structures, such as underground water quality manholes and/or vaults with filter media are noted in Appendix C when applicable.

The following stormwater facility maintenance table (See ODOT Maintenance Guide) should be used to maintain the facility outlined in this Operation and Maintenance Manual or follow the Maintenance requirements outlined in Appendix C when proprietary structure is selected below:

- \boxtimes Table 1 (general maintenance)
- \boxtimes Table 2 (stormwater ponds)
- □ Table 3 (water quality or biofiltration swales)
- □ Table 4 (water quality filter strips)
- □ Table 5 (water quality bioslopes)
- \Box Table 6 (detention tank)
- \Box Table 7 (detention vault)
- □ Appendix C (proprietary structure)

□ Special Maintenance requirements:

Note: Special maintenance Requirements Require Concurrence from ODOT SR Hydraulics Engineer.

8. Waste Material Handling

Material removed from the facility is defined as waste by the Department of Environment Quality (DEQ). Refer to the roadwaste section of the ODOT Maintenance Yard Environmental Management System (EMS) Policy and Procedures Manual for disposal options:

http://www.oregon.gov/ODOT/Maintenance/Documents/ems_manual.pdf

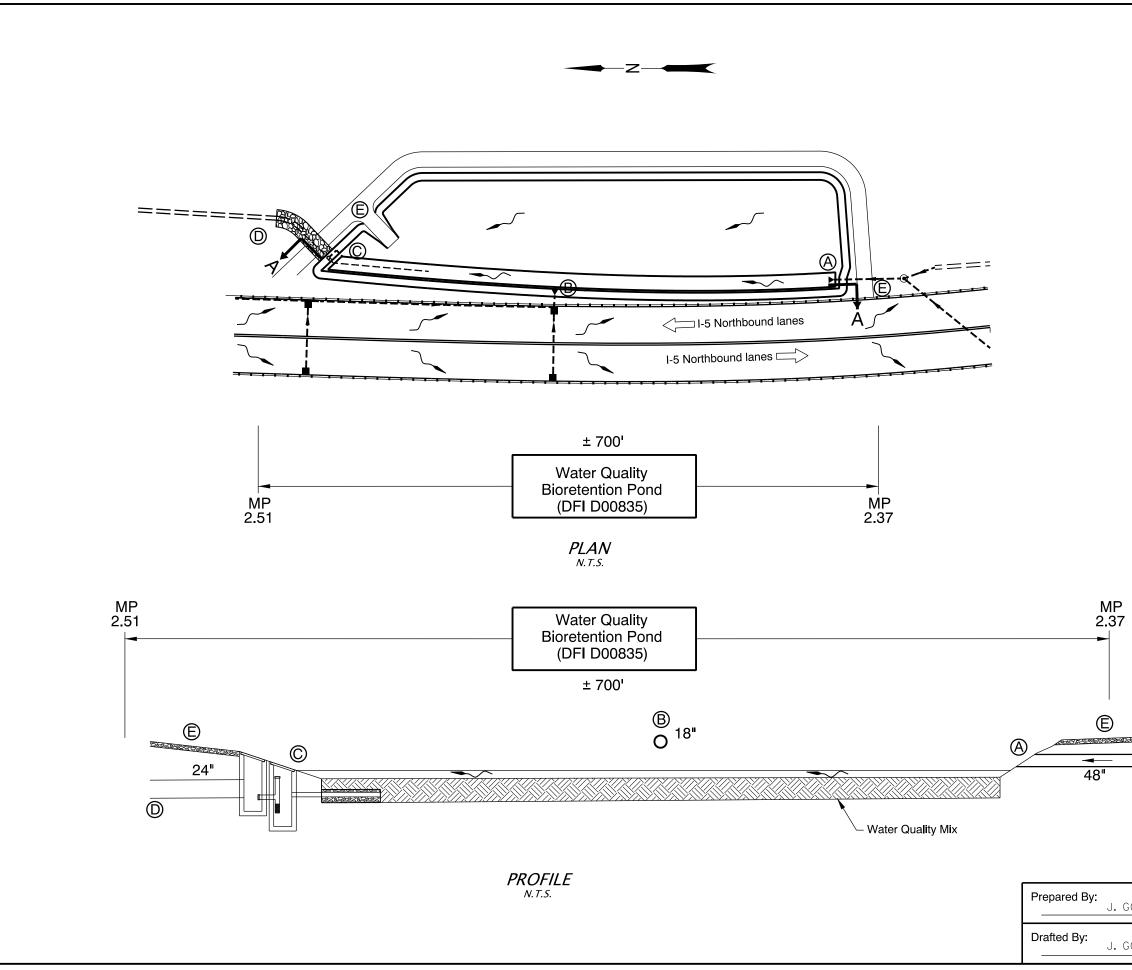
Contact any of the following for more detailed information about management of waste materials found on site:

(503) 986-3008
(503) 667-7442
(503) 731-8290
(503) 986-2647
(541) 957-3594
(541) 388-6186
(541) 963-1590
(503) 229-5263

Appendix A

Content:

• Operational Plan and Profile Drawing(s)



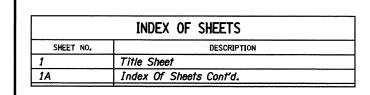
997-823 	 Pond Inlet Pond Outlet Outfall Maintenance Access and or Inlet Storm Pipe (Facility) Storm Pipe Conveyance Direction Pavement / Facility Flow Path
	OREGON DEPARTMENT OF TRANSPORTATION
GONZALEZ	DFI D00835 Maintenance district 08 Hwy 022
GONZALEZ	WATER QUALITY BIORETENTION POND HIGHWAY MP 2.37 TO 2.51 Jackson

LEGEND:

Appendix B

Content:

- ODOT Project Plan Sheets
 - Cover/Title Sheet
 - Water Quality/Detention Plan Sheets
 - Other Details



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MEDFORD

TERS RD.

STATE OF OREGON DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED PROJECT

GRADING, DRAINAGE, STRUCTURES, PAVING, SIGNING, ILLUMINATION, SIGNALS & ROADSIDE DEVELOPMENT

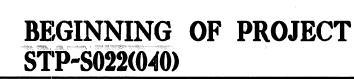
OR62: CORRIDOR SOLUTIONS UNIT 2 (MEDFORD)

CRATER LAKE HIGHWAY

JACKSON COUNTY FEBRUARY 2016

BEGINNING OF PROJECT STP-S022(040)

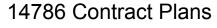
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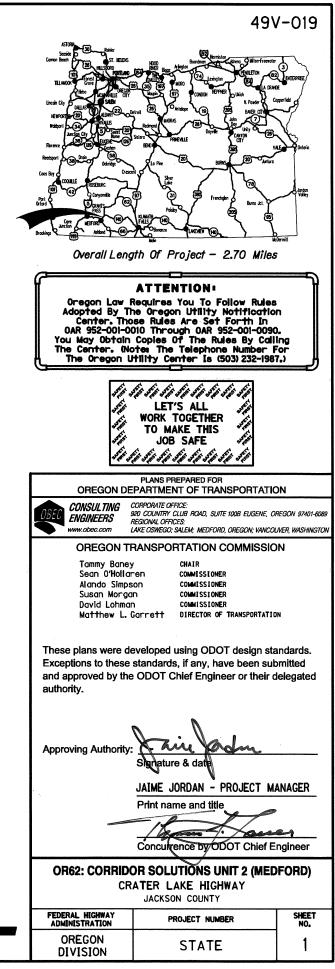


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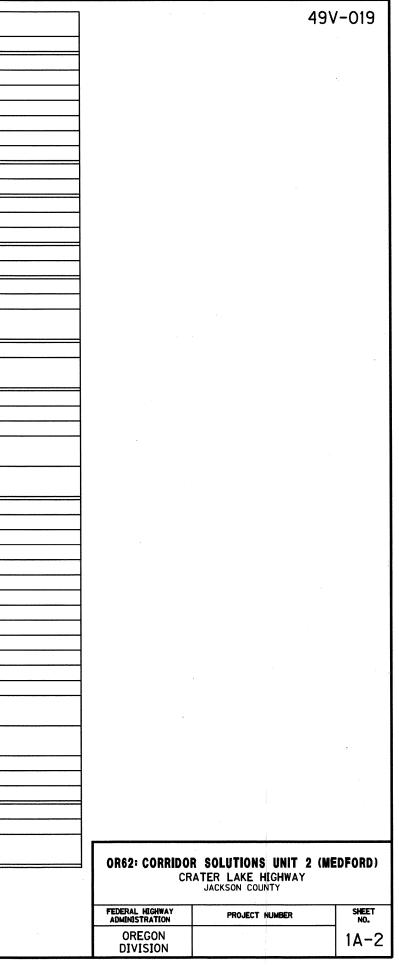
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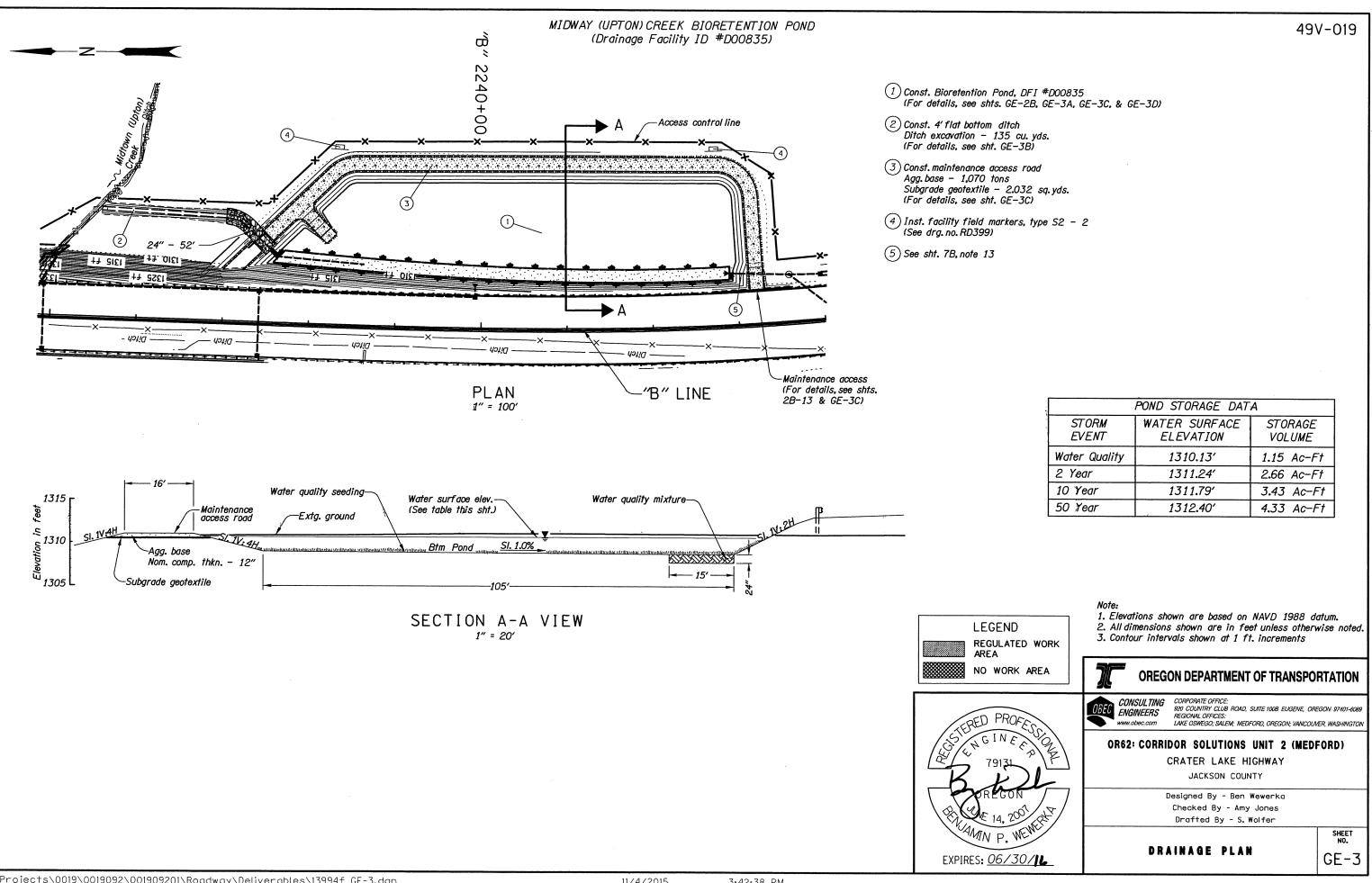


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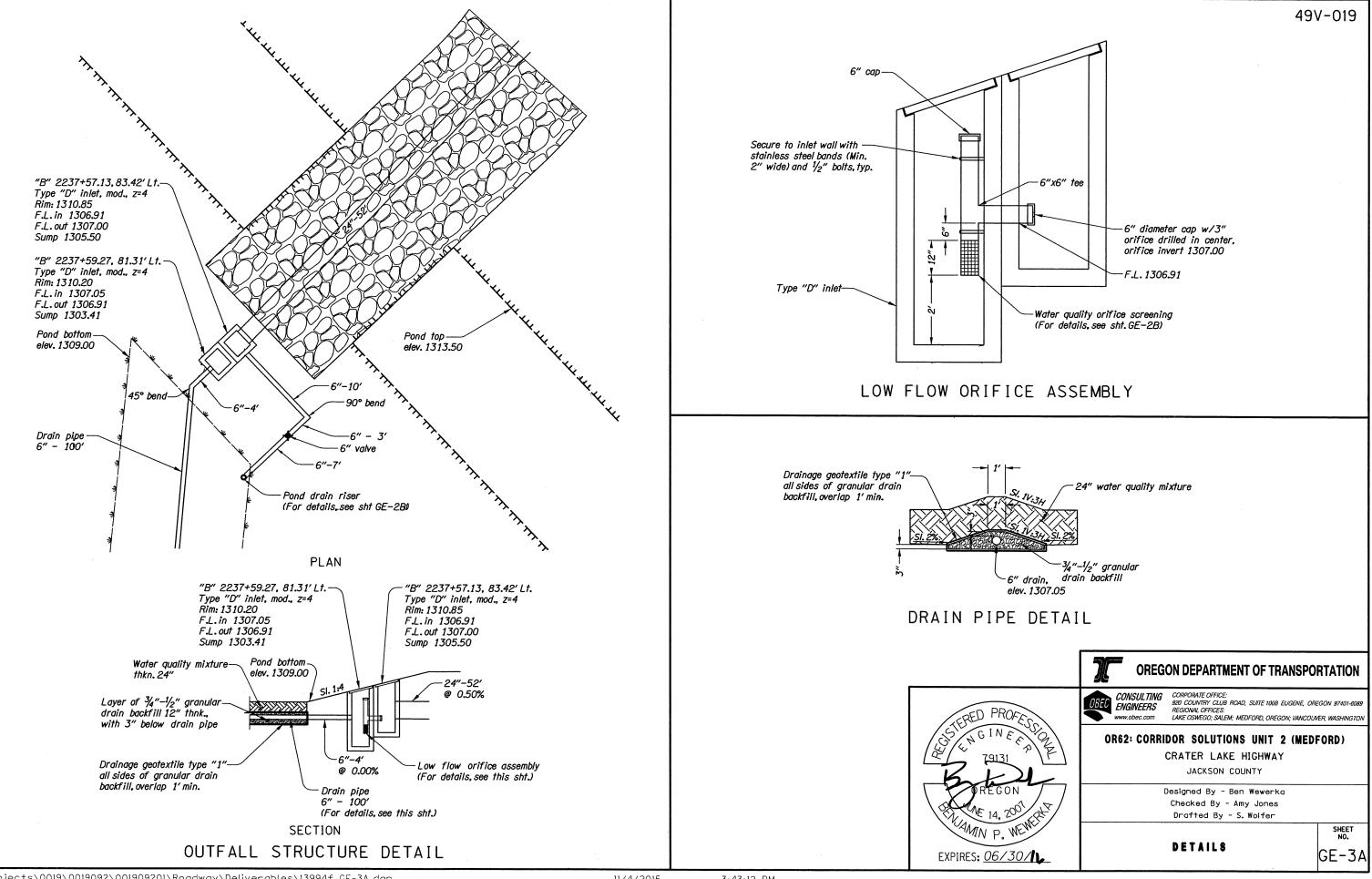
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M624, M627		-	ase Breakaway Multi-Direction Slip tilever Sign Support	Base
M688	- 8. - TT - TT - TT - TT - TT - W - 3 - S - S - S - S - S - S - S - S - S - S	reakaway Si raffic Signo raffic Signo raffic Strai nd Design (raffic Strai nd Details ood Post Si Second Gu xtruded Alu ign Attachm ign Mounts econdary Si ignal Pole M erforated S ables, Abrup emporary Re emporary Si emporary Cc	n Pole Supports Notes, Reactions gn Supports st Wind Speed Map uninum Panels eents gn Mounting Details ounts teel Square Tube Sign Supports t Edge And PCMS Details affective Pavement Markers arricades gn Supports uncrete Barrier And Rumble Strips	ts)
M843	- Cl - In - Te	osure Detail Intersection I Imporary Pe		
	No.	DATE	REVISIONS	BY
	$\mathbf{\Lambda}$	1-27-16	Added std. drawing nos.	S.A.P.
	$\mathbf{\hat{z}}$	2-16-17	Added std. drawing no.	S.A.P.

OR62: CORRIDOR SOLUTIONS UNIT 2 (MEDFORD) CRATER LAKE HIGHWAY JACKSON COUNTY

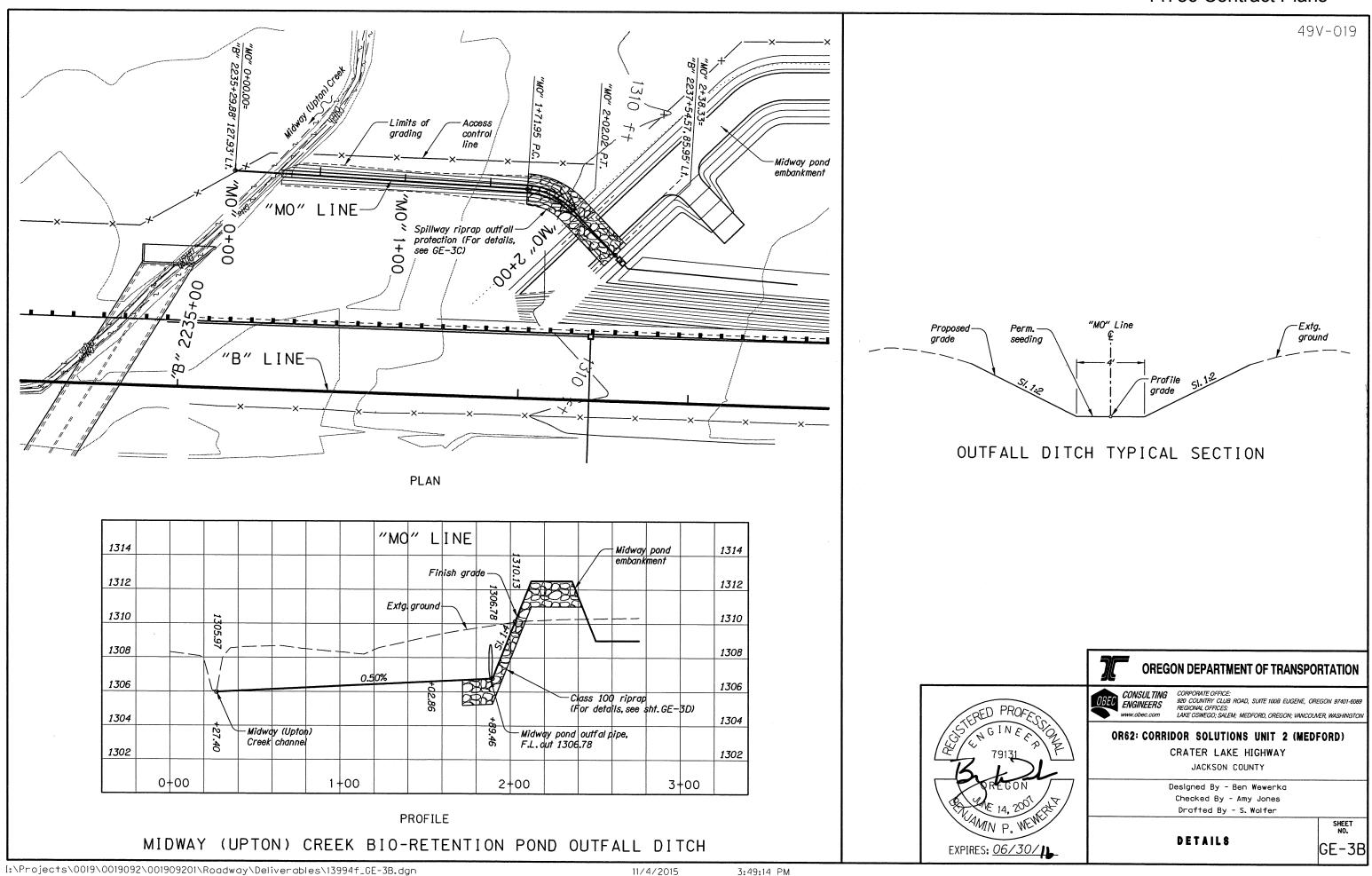
SHEET NO. FEDER AL HIGHWAY ADMINISTRATION PROJECT NUMBER OREGON DIVISION 1A-3 gs_home.shtml



POND STORAGE DATA								
STORM EVENT	WATER SURFACE ELEVATION	STORAGE VOLUME						
Water Quality	1310.13′	1.15 Ac-Ft						
2 Year	1311.24′	2.66 Ac-Ft						
10 Year	1311.79′	3.43 Ac–Ft						
50 Year	1312.40′	4.33 Ac–Ft						

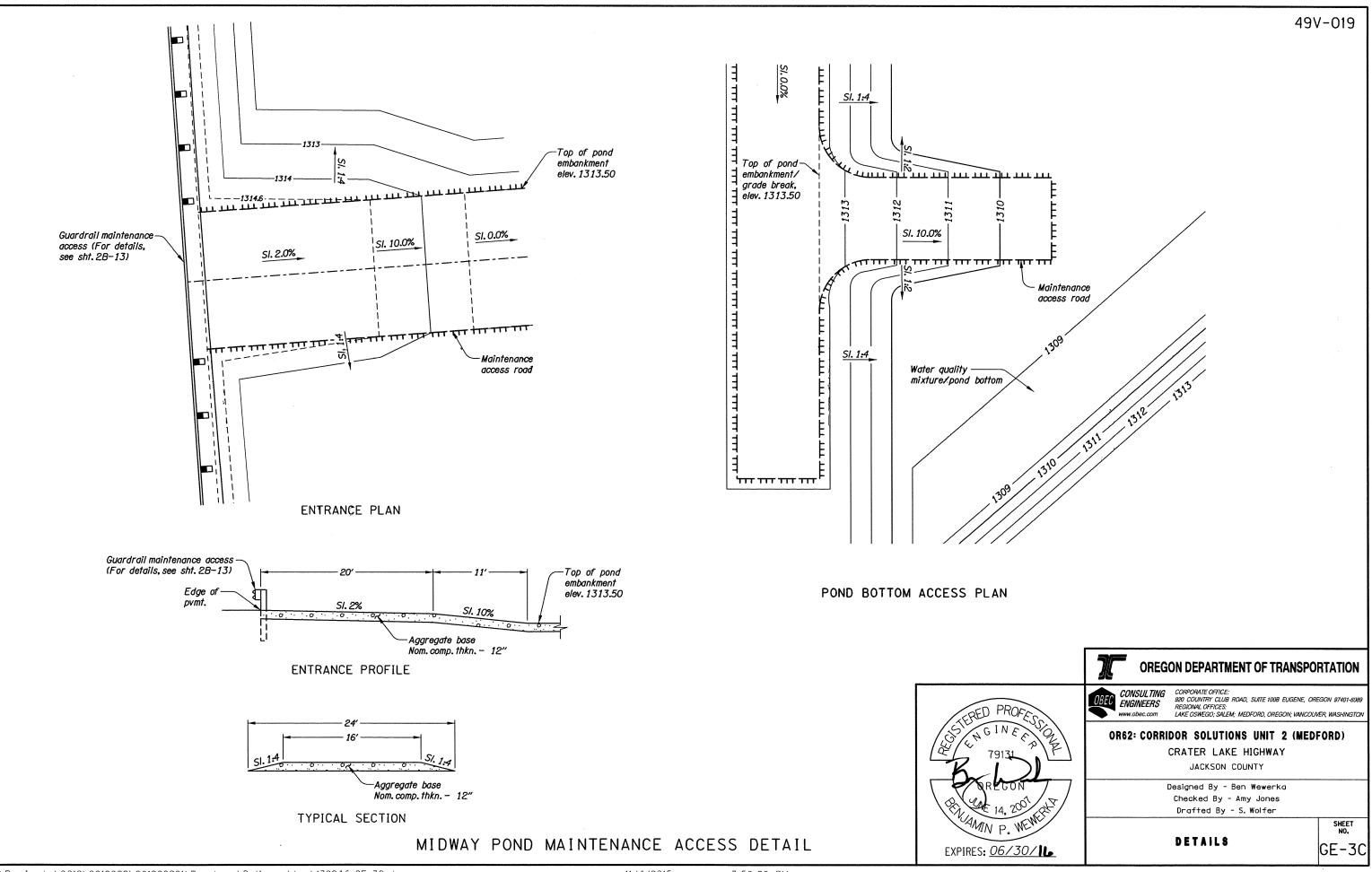


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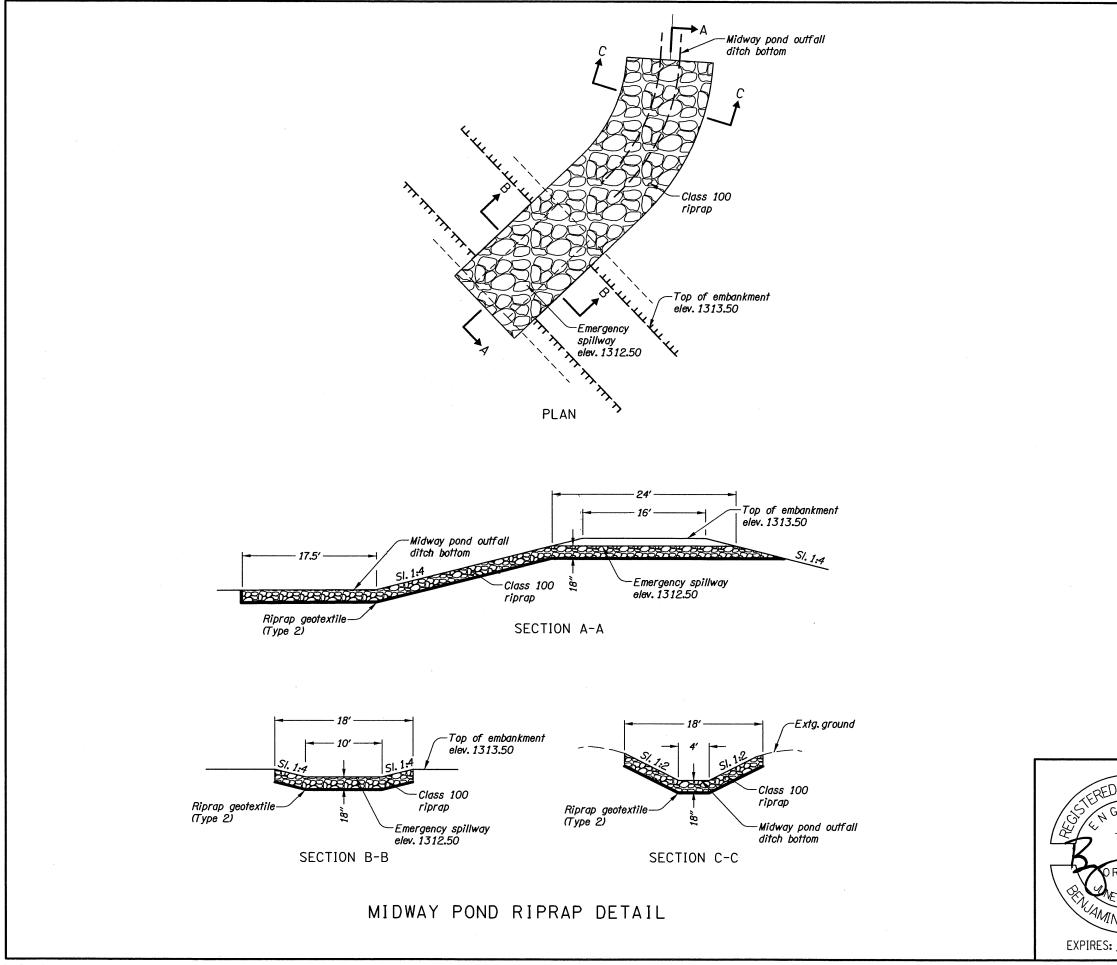


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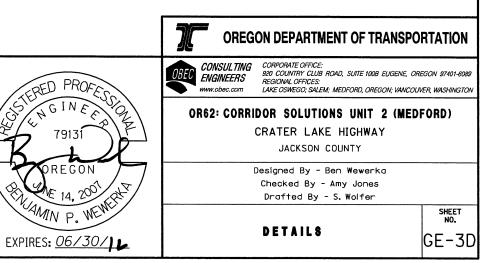
14786 Contract Plans

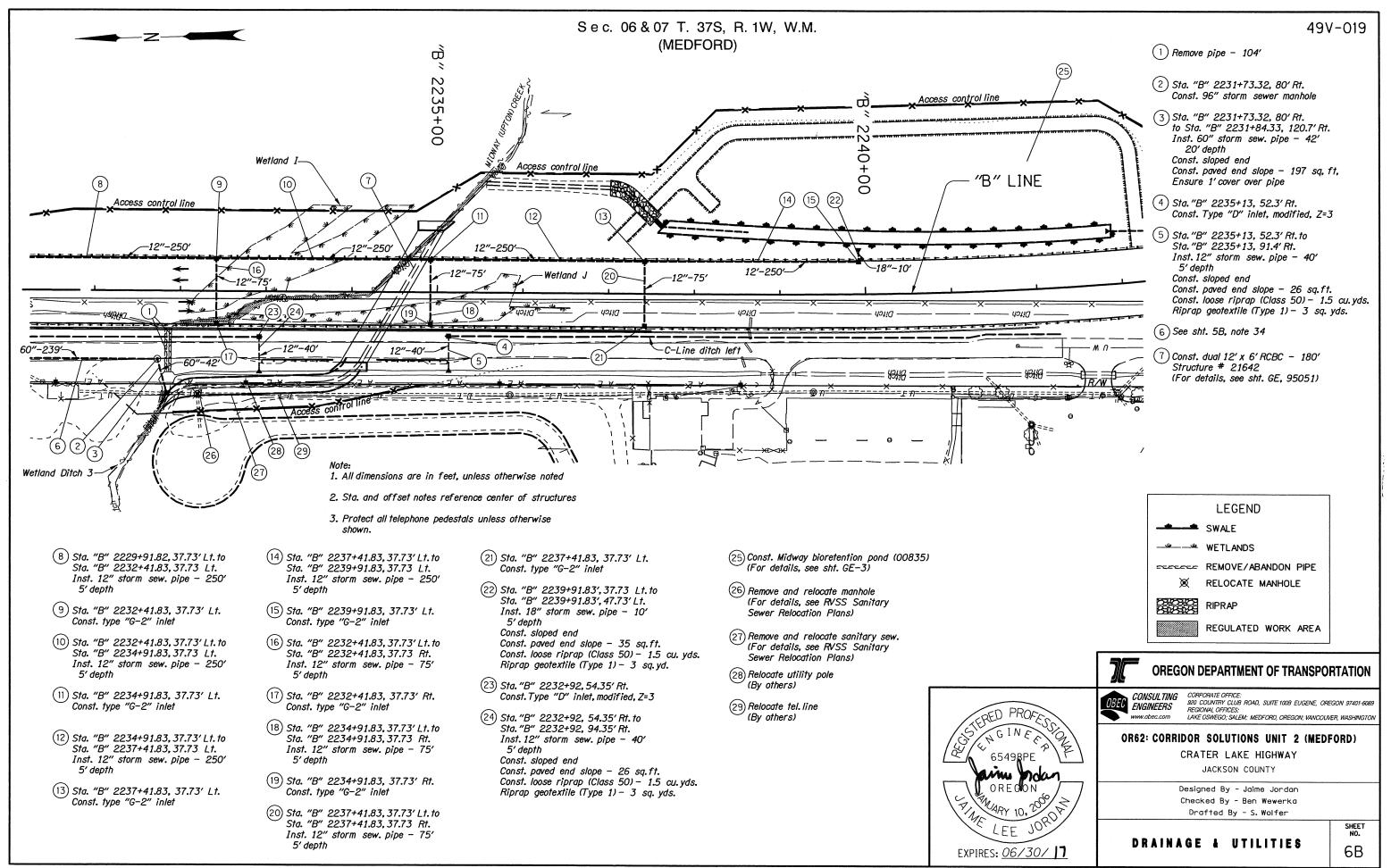


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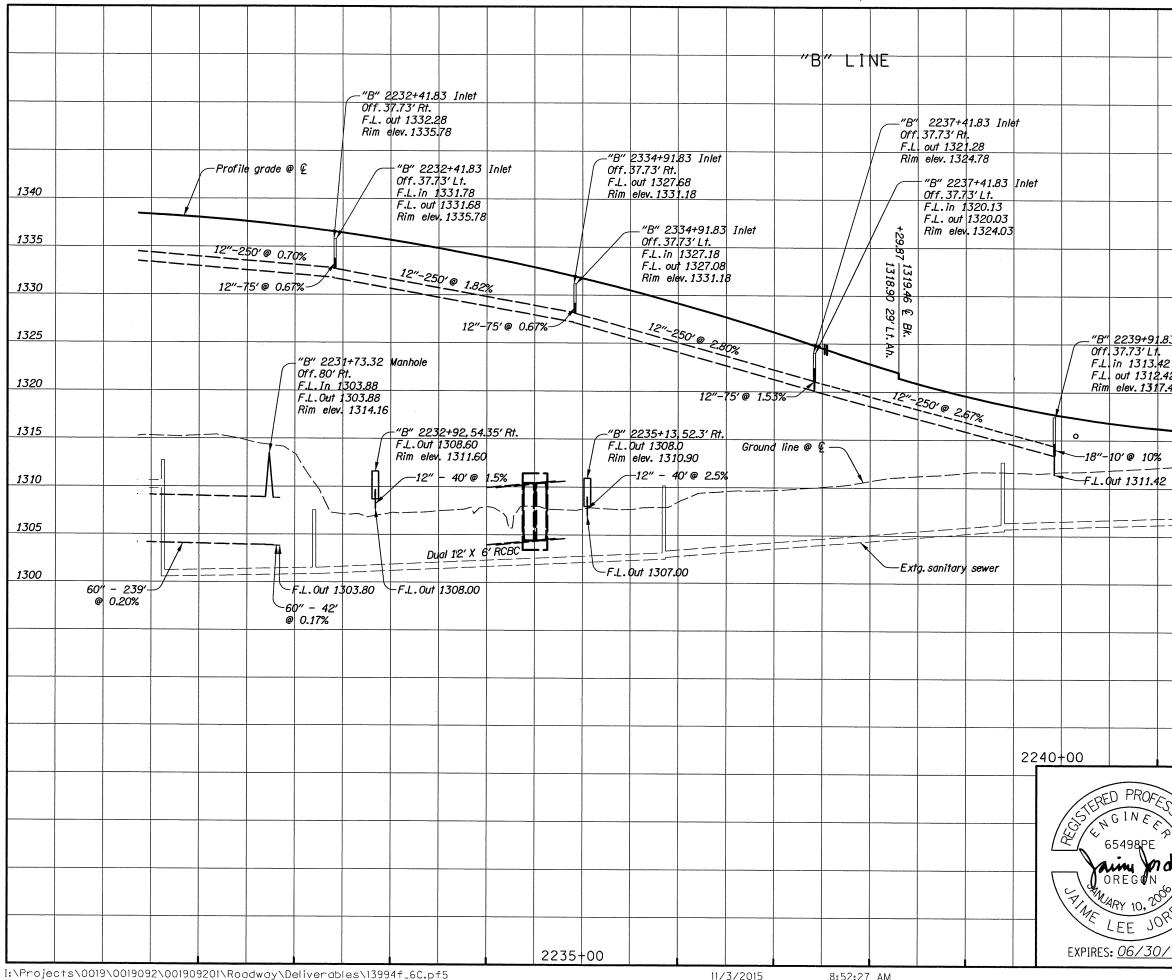


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14786 Contract Plans



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14786 Contract Plans

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12 .42 7.42	-Pro	file grade	@ 29′Lt.				1320	
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	OREGON DEPARTMENT OF TRANSPORTATION							
Sc	OBE	CONSULT ENGINEER	S 920 COL REGION	AL OFFICES:	AD, SUITE 100B E MEDFORD, OREGO			
A LOISION								
dan S/2/	JACKSON COUNTY Designed By - Jaime Jordan Checked By - Ben Wewerka							
ROX VIJ	D R /	A I N A G E		ted By - S	S. Wolfer	FILE	sheet No.	
<u> </u>	155/660							