# OPERATION & MAINTENANCE MANUAL

**DFI No.: D00136** 

**Facility Type: Detention Tank/Pipe** 



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#### 1. Identification

Drainage Facility ID (DFI): **D00136** 

Facility Type: Detention Tank/Pipe

Construction Drawings: (V-File Number) 39V-058

Location: District: 2B (Old 2A)

Highway No.: 064

Mile Post: 3.10; 3.14 (beg./end)

Description: This facility is located on the northwest quadrant of the I-205 (Hwy 64) and SW Stafford Road Interchange, between the southbound lane and the

southbound on-ramp.

#### 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:

Consultant Designer - OBEC Consulting Engineers,

Jerome D. Lane, P.E., (503)-589-4100

Facility construction: 2006

Contractor: Oregon Mainline Paving, LLC

#### 4. Storm Drain System and Facility Overview

A detention facility is designed to control the quantity of runoff, by reducing the peak discharge and only detaining runoff for some short period of time. These facilities are designed to store and gradually release or attenuate stormwater runoff via a control structure or release mechanism, and completely drain after the design storm has passed. The most common detention facilities include:

- Dry ponds these are depressed storage areas that store runoff during wet weather and are dry the rest of the time. Usually they are earthen depressions.
- Tanks these are underground storage facilities that are typically constructed from large diameter pipe.
- Vaults these are enclosed underground storage facilities. They are typically constructed from reinforced concrete.

This facility is located north of the water quality manhole DFI D00135. Access can be obtained from outlet and inlet vaults located at points C and E, respectively, as seen on the Operational Plans, Appendix A, and Photos 2 and 3. Flow is received from the water quality manhole (DFI D00135) and detained before being conveyed by an 18-inch pipe to an outfall and a nearby ditch.

Maintenance equipment access: Access can be obtained from either the on-ramp or the right shoulder of southbound I-205.
Heavy equipment access into facility:
<ul><li>☑ Allowed (no limitations)</li><li>☐ Allowed (with limitations)</li><li>☐ Not allowed</li></ul>
Special Features:
<ul><li>☐ Amended Soils</li><li>☐ Porous Pavers</li><li>☐ Liners</li><li>☐ Underdrains</li></ul>

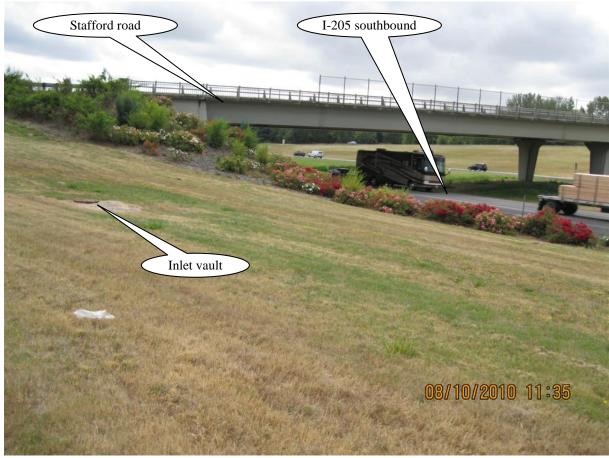


Photo 1: Looking south

- 3 -

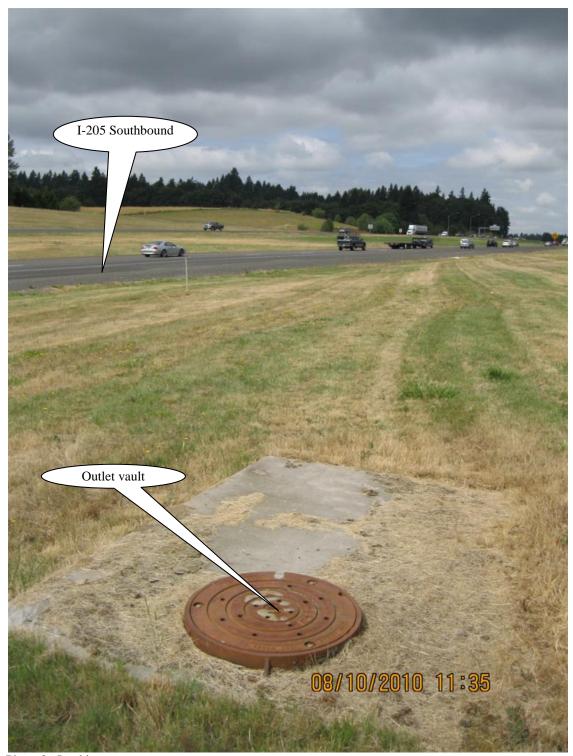


Photo 2: Looking west

- 4 -

#### 5. Facility Haz Mat Spill Feature(s)

The detention tank/pipe can be used to store a volume of liquid by blocking the 18-inch diameter outlet pipe that releases water into a nearby ditch north of the I-205 (Hwy 64) on-ramp.

#### 6. Auxiliary Outlet (High Flow Bypass)

The auxiliary outlet feature for this facility is:

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 facility design. The auxiliary outlet feature is either a part of the facility or an additional storm drain feature/structure.

The durinary editor reactive for the raomy for
□ Designed into facility
Other, as noted below There is no auxiliary outlet designed into this facility

#### 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:

Mark as Required and always include Table 1:

□ Table 1 (general maintenance)
☐ Table 2 (stormwater ponds)
☐ Table 3 (water quality biofiltration swales)
☐ Table 4 (water quality filter strips)
☐ Table 5 (water quality bioslopes)
□ Table 6 (detention tank)
☐ 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 DEQ. Refer to the roadwaste section of the ODOT Maintenance Yard Environmental Management System (EMS) Policy and Procedures Manual for disposal options: <a href="http://egov.oregon.gov/ODOT/HWY/OOM/EMS.shtml">http://egov.oregon.gov/ODOT/HWY/OOM/EMS.shtml</a>

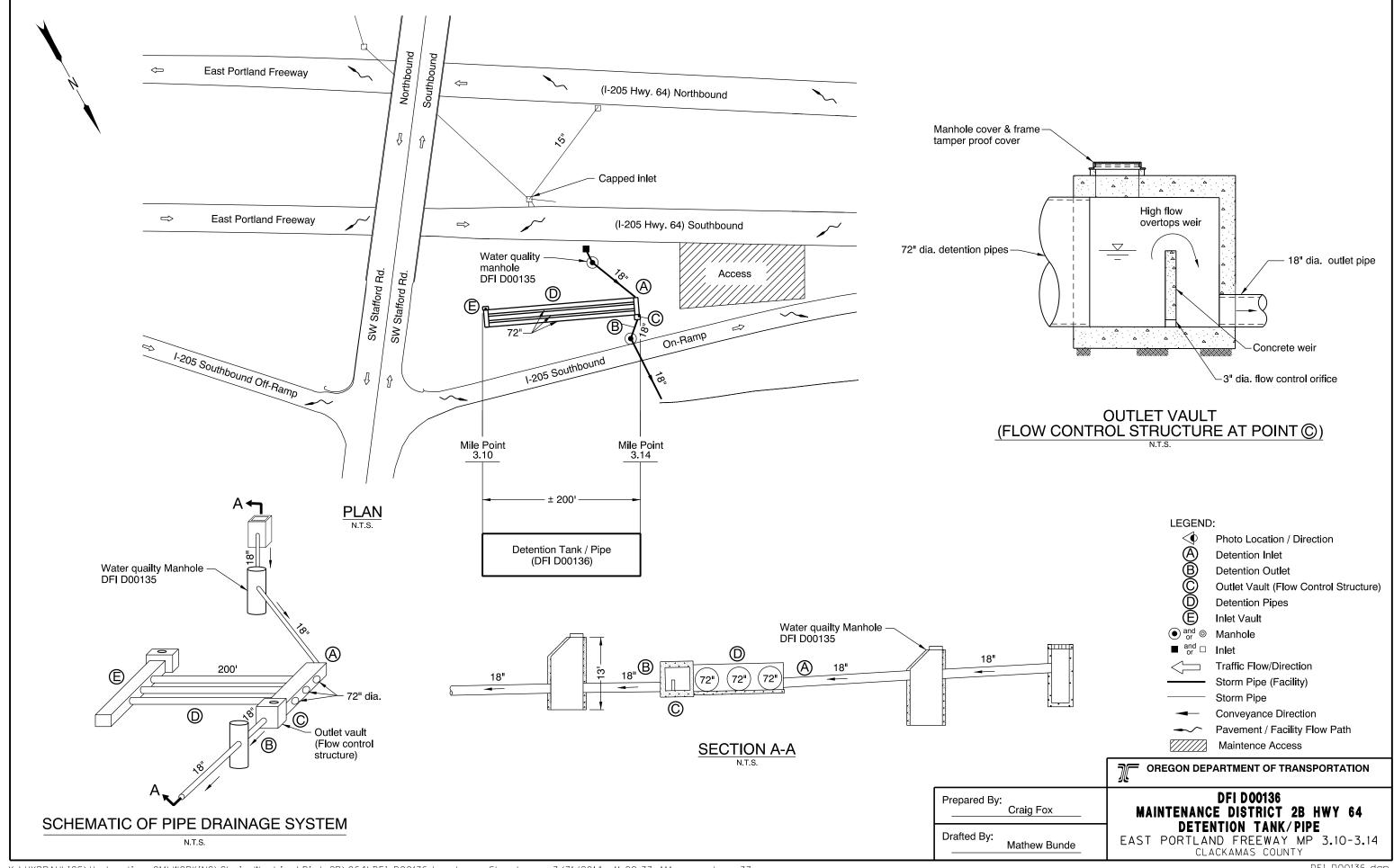
Contact any of the following for more detailed information about management of waste materials found on site:

ODOT Clean Water Unit	(503) 986-3008
ODOT Statewide Hazmat Coordinator	(503) 229-5129
ODOT Region Hazmat Coordinator	(503) 731-8304
ODEQ Northwest Region Office	(503) 229-5263

## Appendix A

#### **Content:**

• Operational Plan and Profile Drawing(s)



### **Appendix B**

#### **Content:**

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

	INDEX OF SHEETS	
SHEET NO. DESCRIPTION		
1	Title Sheet	
1A, 1B	Index Of Sheets Cont'd.	
1C	Std. Drg. Nos.	

STATE OF OREGON

# DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED PROJECT

GRADING, DRAINAGE, STRUCTURES, PAVING, SIGNING & ILLUMINATION

# I-205: WILLAMETTE RIVER BR. -

PACIFIC HWY. (UNIT 3) SEC.

**EAST PORTLAND FREEWAY** 

**CLACKAMAS & WASHINGTON COUNTIES APRIL 2006** 

39V-58

Overall Length Of Project - 8.90 Miles

#### ATTENTION:

Oregon Law Requires You To Follow Rules Adopted By The Oregon Utility Notification Center. Those Rules Are Set Forth In OAR 952-001-0010 Through OAR 952-001-0090. You May Obtain Copies Of The Rules By Calling The Center. (Note: The Telephone Number For The Oregon Utility Center Is (503) 232-1987.)

> LET'S ALL WORK TOGETHER TO MAKE THIS

#### **OREGON TRANSPORTATION COMMISSION**

CHAIRMAN Stuart Foster Gail L. Achterman COMMISSIONER Mike Nelson COMMISSIONER Randall Papé COMMISSIONER COMMISSIONER Janice J. Wilson DIRECTOR OF TRANSPORTATION

EXPIRES: 12/31/07 LAWRENCE H. FOX

OBEC CONSULTING ENGINEERS - PROJECT MANAGER

OREGON DEPARTMENT OF TRANSPORTATION

1-205: WILLAMETTE RIVER BR. PACIFIC HWY. (UNIT 3) SEC. EAST PORTLAND FREEWAY

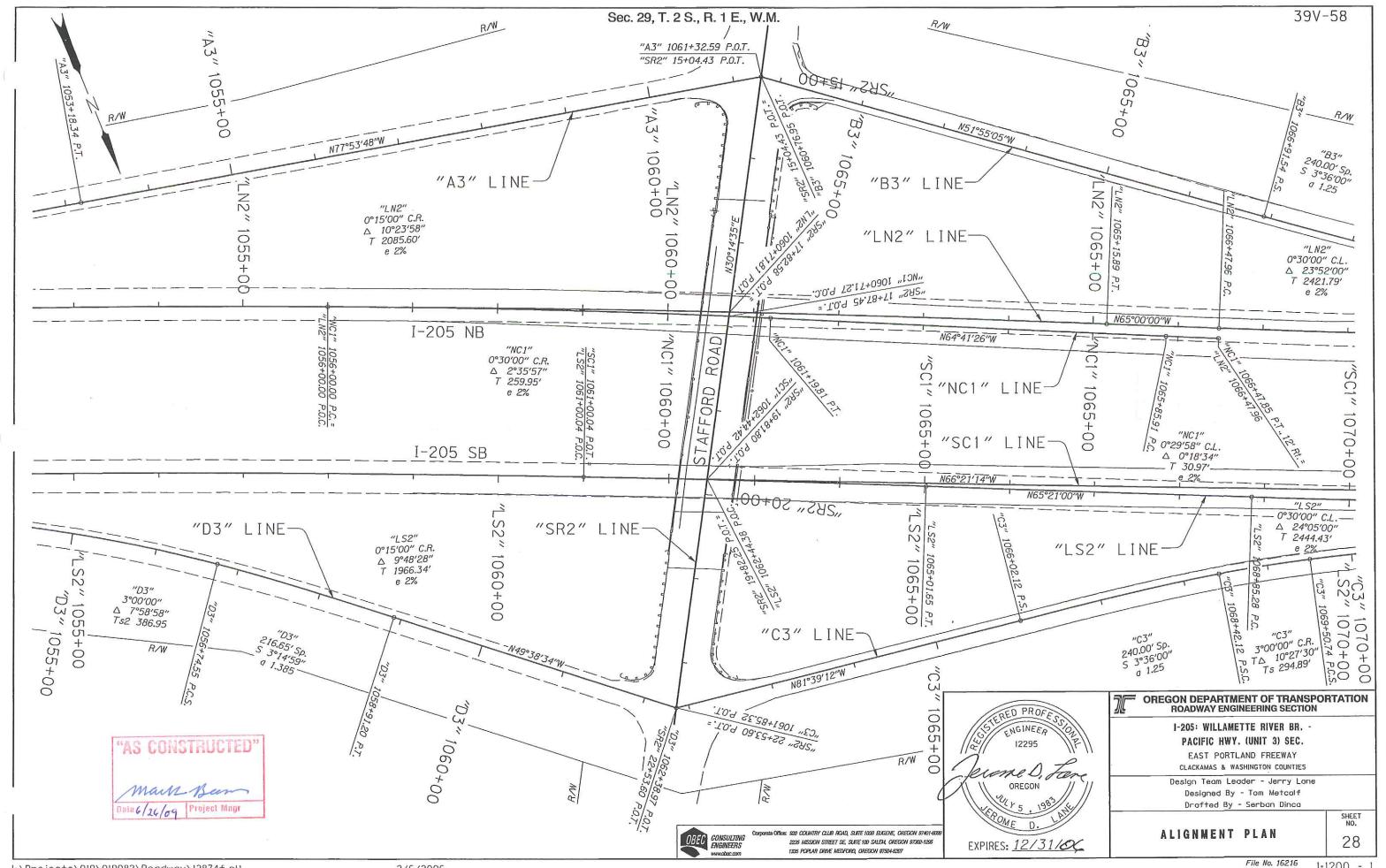
FEDERAL HIGHWAY ADMINISTRATION	PROJECT NUMBER	SHEET NO.
OREGON DIVISION	IM-OTIA-S064(032)	1

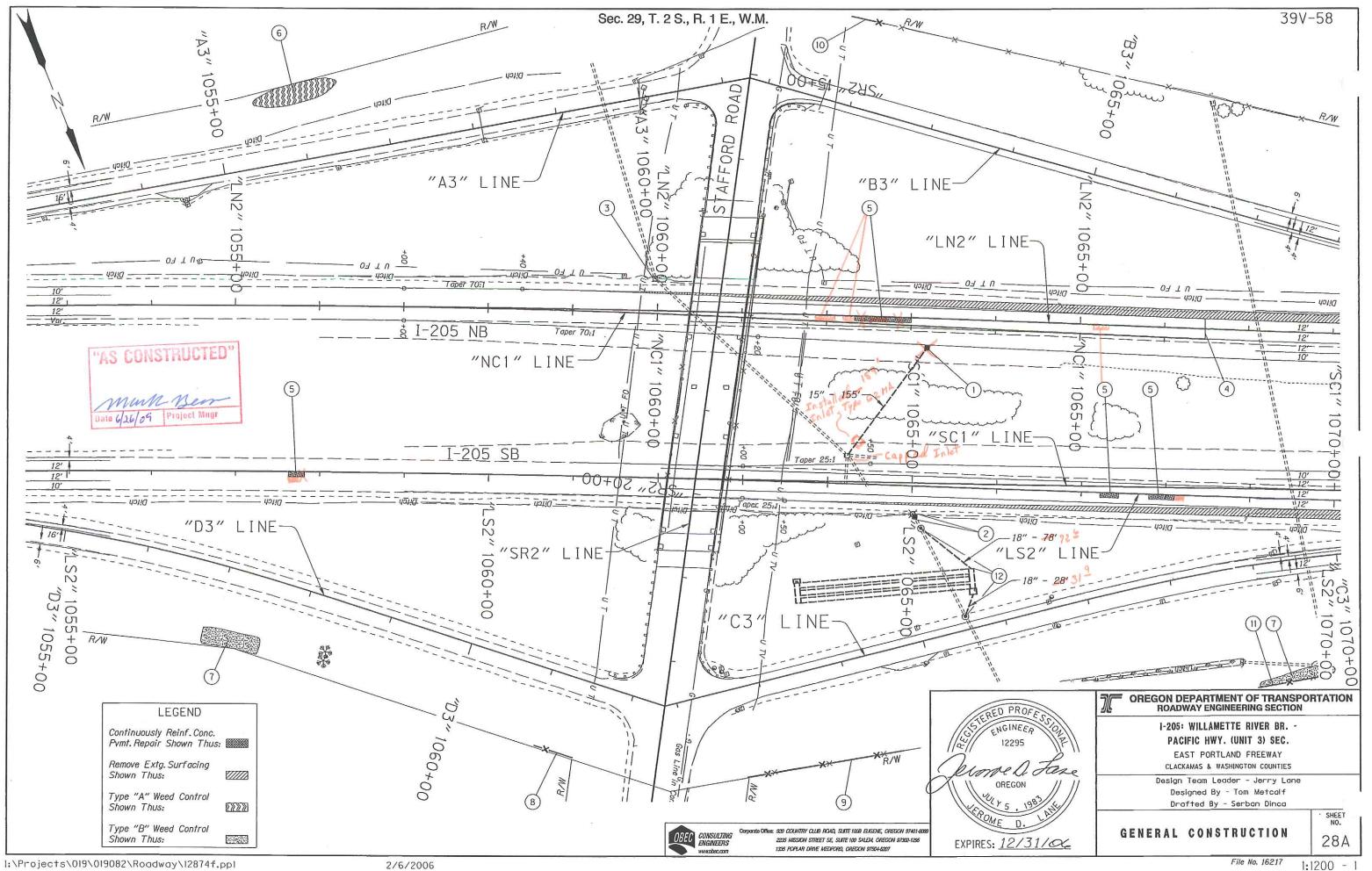
END OF PROJECT IM-OTIA-S064(032) STA. "LS2" 1231+71.15 (M.P. -0.10) **JOHNSON** DURHAM OSWEGO WEST LINN TUALÁTIN-**OREGON** CITY T. 2 S., R. 1 W., R. 1 E. & R. 2 E., W.M. IM-OTIA-S064(032) **BEGINNING OF PROJECT** 

STA. "L" 735+41.85 (M.P. 8.80)

i: Projects/019/019082/Roadway/12874fs.ts!

File No. 15980





- (1) Sta. "LN2" 1063+20, 35' Rt. Const. Type "G-2MA" Inlet Inst. 15" Sew. Pipe - 155' 5' Depth
- Inlet not installed Pipe installed but not connected
- (2) Sta. "LS2" 1065+04.5, 36.4' Rt. Remove Extg. Inlet Const. Type "G-2MA" Inlet Over Extg. Sew. Pipe
- (3) Adjust Inlet
- (4) Sta. "LN2" 1066+47.96 Const. Terminal Expansion Joint - 24' (For Details, See Sht. 2B-25) (See Drg. No. RD605)
- (5) Continuously Reinf. Conc. Pvmt. Repair - 93 Sq.Yd. 2 (For Details, See Shts. 2B-18, 2B-19 & 2B-20)
- (6) Type "A" Weed Control
- (7) Type "B" Weed Control
- (8) Sta."LS2" 1060+60 To Sta."LS2" 1061+05, Rt. Remove Type 2 Fence - 50' Const. Type 2 Fence - 50' (See Drg. No. RD810)
- (9) Sta."LS2" 1063+16 To Sta."LS2" 1065+01, Rt. Remove Type 2 Fence - 190' Const. Type 2 Fence - 190'
- (10) Sta. "LN2" 1062+19 To Sta. "LN2" 1062+57, Lt. Remove Type 2 Fence - 40' Const. Type 2 Fence - 40'
- (1) Sta."LS2" 1066+22 To Sta."LS2" 1072+98, Rt. Remove Type 2 Fence 700' Const. Type 2 Fence - 700'
- (12) Sta. "LS2" 1065+12.19, 50.5' Rt. Const. Water Quality Manhole Inst. 18" Sew. Pipe - 78' 1 5 Depth 10 Const. Conc. Manhole

Inst. 18" Sew. Pipe - 28' 5 Depth 10 Const. Underground Detention Facility #8 (For Details, See Sht. GJ-12)

"AS CONSTRUCTED"

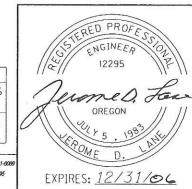
mun Bear Tale 6/26/09 Project Mngr

> REVISIONS Revised 03-23-2006 /1\ Revised Note

Revised 04-10-2006 Revised Note

OBEO CONSULTING ENGINEERS

Corporate Office: 920 COUNTRY CLUB ROAD, SUITE 1008 EUGENE, OREGON 97401-808 2236 MISSION STREET SE, SUITE 100 SALEM, OREGON 97302-1295 1335 POPLAR DRIVE MEDFORD, OREGON 97504-5207



OREGON DEPARTMENT OF TRANSPORTATION ROADWAY ENGINEERING SECTION

> 1-205: WILLAMETTE RIVER BR. -PACIFIC HWY. (UNIT 3) SEC.

EAST PORTLAND FREEWAY CLACKAMAS & WASHINGTON COUNTIES

Design Team Leader - Jerry Lane Designed By - Tom Metcalf Drafted By - Serban Dinca

CONSTRUCTION NOTES

SHEET NO. 28B

