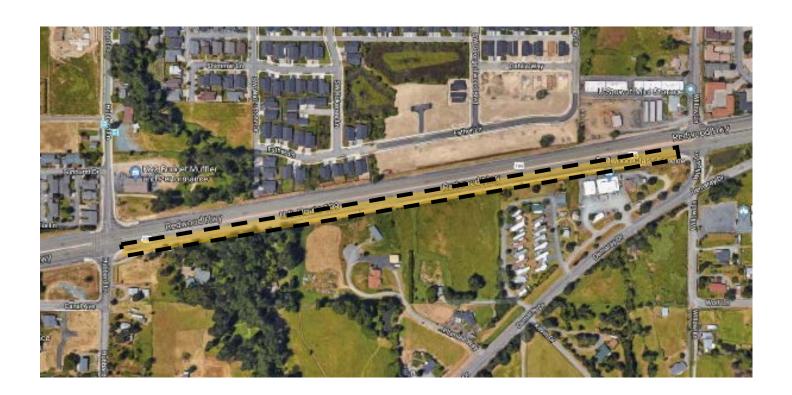
OPERATION & MAINTENANCE MANUAL

DFI No.: D00648

Facility Type: Water Quality Porous

Pavement



INDEX

1.	IDENTIFICATION		1
2.	FACILITY CONTACT INFORMATION		
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1. Identification

Drainage Facility ID (DFI): D00648

Facility Type: Water Quality Porous Pavement

Construction Drawings: 43V-178

Location: District: 08

Highway No.: 025

Mile Post: 2.58; 3.05 (beg./end)

Description: This facility is located along the south side of eastbound US 199. It can be identified as the multi-use path adjacent to

the highway.

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: Ronald Horres - Parsons Brinkerhoff

Jason Sheadel– Region 3 Tech Center

Facility construction: 2013 Contractor: N/A

4. Storm Drain System and Facility Overview

Water quality treatment will be accomplished through the underlying water quality amended soils. A perforated drainpipe, installed in a subsurface drain below the water quality amended soils, will convey the treated stormwater from the water quality amended soils. The entire cross-section will be lined in an impermeable geotextile fabric. A permeable geotextile fabric will be installed between the subbase and amended soils as well as between the water quality amended soils and the subsurface drain to promote flow of water through the system without transporting materials between layers.

	A.	Maintenance equipment access: This facility can be accessed from the north shoulder of westbound US 199.
	В.	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) There are no Haz Mat spill featured designed into this facility.	
6.	Au sa ov sto	uxiliary Outlet (High Flow Bypass) uxiliary Outlets are provided if the primary outlet control structure can not fely pass the projected high flows. Broad-crested spillway weirs and er flow risers are the two most common auxiliary outlets used in formwater treatment facility design. The auxiliary outlet feature is either a litt of the facility or an additional storm drain feature/structure.
	Th	ne auxiliary outlet feature for this facility is:
		Designed into facility
	\boxtimes	Other

There are no auxiliary outlets built into this facility. In the event that flows exceed design flows the water will flow down the multi-use path surface and/or overtop the mountable curb and flow into the area behind the path.

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:

☑ 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: See following table

Maintenance Component	Defect or Problem	Condition When Maintenance is Needed	Results Expected When Maintenance is Performed
1		Collection of sediment is too coarse to pass through pavement.	Remove sediment deposits with high- pressure vacuum sweeper.
		Accumulation on top of pavement is observed.	Remove with a leaf blower or high- pressure vacuum sweeper.
	0.0.0		Remove by hand or with a high- pressure vacuum sweeper.
		on top of pavement.	Immediately remove with a vacuum sweeper and follow up by a pressure wash or other appropriate rinse procedure.
Visual Facility			Replace facility identification where needed.
Annual Minimum Maintenance			Remove potential void-clogging debris with a biannual or annual high- pressure vacuum sweeping.

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

8. Waste Material Handling

9. 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

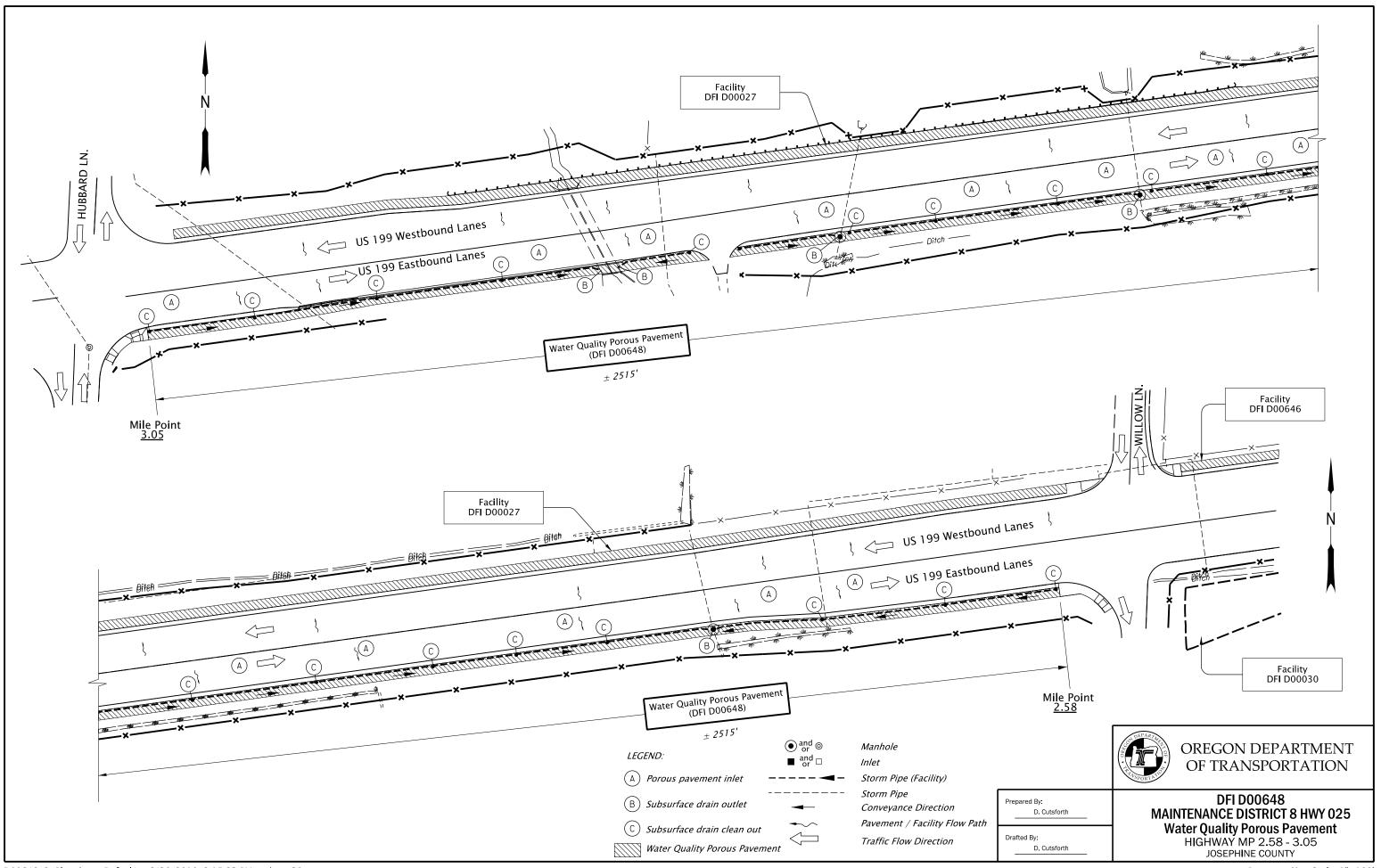
Contact any of the following for more detailed information about management of waste materials found on site:

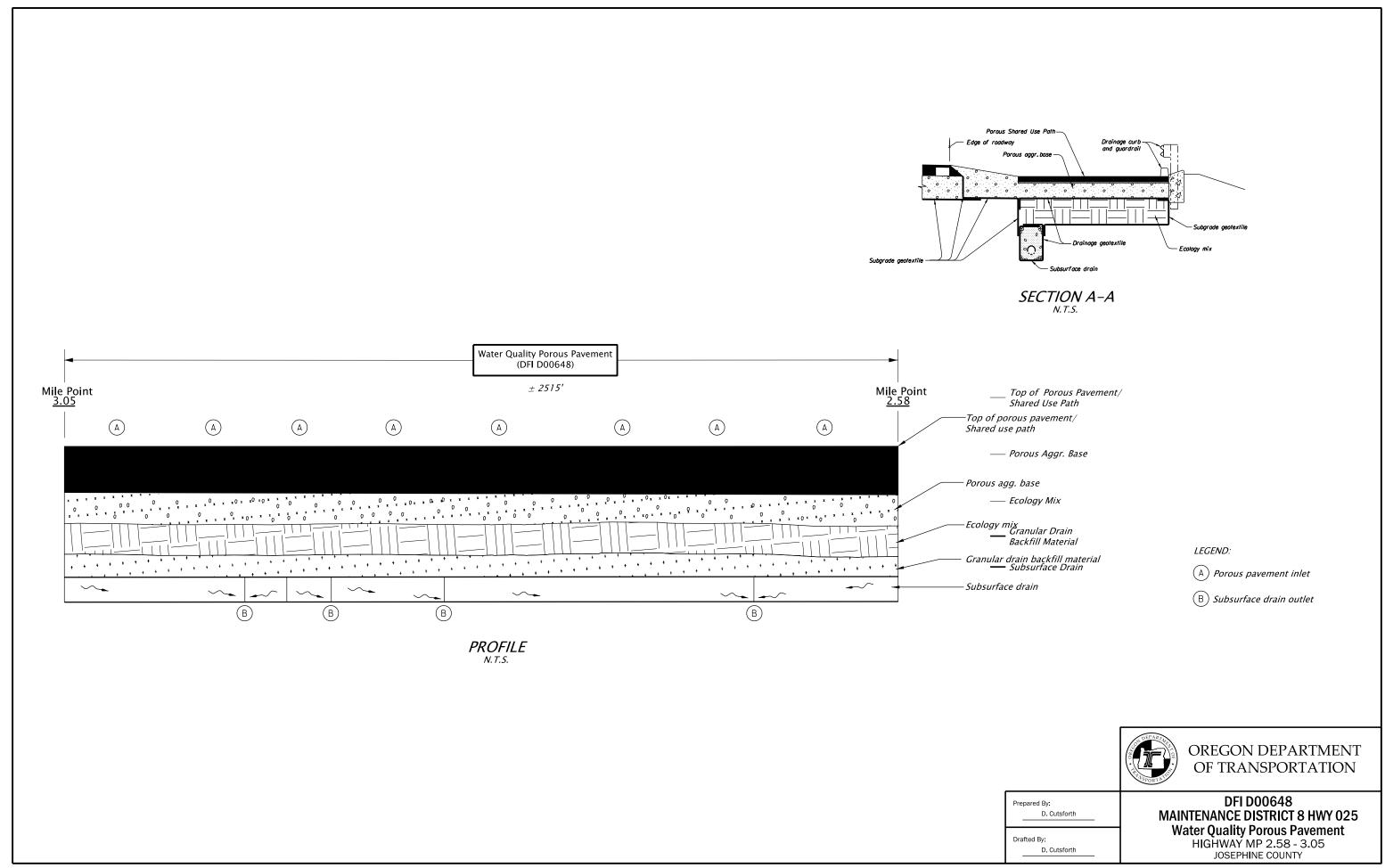
ODOT Clean Water Unit	(503) 986-3008
ODOT Statewide Hazmat Coordinator	(503) 667-7442
ODOT Region 1 Hazmat Coordinator	(503) 731-8290
ODOT Region 2 Hazmat Coordinator	(503) 986-2647
ODOT Region 3 Hazmat Coordinator	(541) 957-3594
ODOT Region 4 Hazmat Coordinator	(541) 388-6186
ODOT Region 5 Hazmat Coordinator	(541) 963-1590
ODEQ Northwest Region Office	(503) 229-5263

Appendix A

Content:

- Operational Plan and Profile Drawing(s)
- Plan and Profile Drawing(s)





Appendix B

Content:

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

43V-178

INDEX OF SHEETS SHEET NO. DESCRIPTION Title Sheet Index Of Sheets Cont'd. & Std. Dwg. Nos.

To Wilderville

ROGUE

COMMUNITY COLLEGE =

27

STATE OF OREGON DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED PROJECT

GRADING, PAVING, DRAINAGE, SIGNALS AND STRUCTURE

US 199:DOWELL RD TO ROGUE 7/23/12 - C.O.G. **COMMUNITY COLLEGE**

FAHEY WY.

MENDI WY.

SHANE WY.

NICK WY.

REDWOOD HIGHWAY

JOSEPHINE COUNTY DECEMBER 2010

END OF PROJECT STP-0TIA-S025(044)

STA. "RW" 751+76.16 (M.P. 1.89) = STA. "RH" 41+71.13, OFFSET 30.07' Lt.

Overall Length Of Project - 1.36 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 JOB SAFE

OREGON TRANSPORTATION COMMISSION

Gail Achterman Michael Nelson Mary F. Olson Alan Brown David Lohman

CHAIR VICE-CHAIR COMMISSIONER COMMISSIONER COMMISSIONER

Motthew L. Garrett, DIRECTOR OF TRANSPORTATION

These plans were developed using ODOT design standards. Exceptions to these standards, if any, have been submitted and approved by the ODOT Chief Engineer or their delegated

Approving Authority:

Signature & date 9-14-10

MARK THOMPSON, TECH CENTER MGR Print name and title

Then tirelles Concurrence by ODOT Chief Engineer

US 199:DOWELL RD TO

ROGUE COMMUNITY COLLEGE REDWOOD HIGHWAY

FEDERAL HIGHWAY ADMINISTRATION	PROJECT NUMBER
OREGON DIVISION	STP-0TIA-S025(04

T.36S, R.06W, Sect. 25, W.M. T.36S, R.06W, Sect. 26, W.M. T.36S, R.06W, Sect. 27, W.M.

T.36S, R.06W, Sect. 24, W.M.

To Grants Pass

CANAL AVE.

0 0

BEGINNING OF PROJECT

STA. "RW" 679+89.72 (M.P. 3.25) =

STA. "RH" 679+89.72 (M.P. 3.25). OFFSET 0

Canal

REDWOOD HIGHWAY (US

WOLF

STA. "RH" 10+00.00 AH.

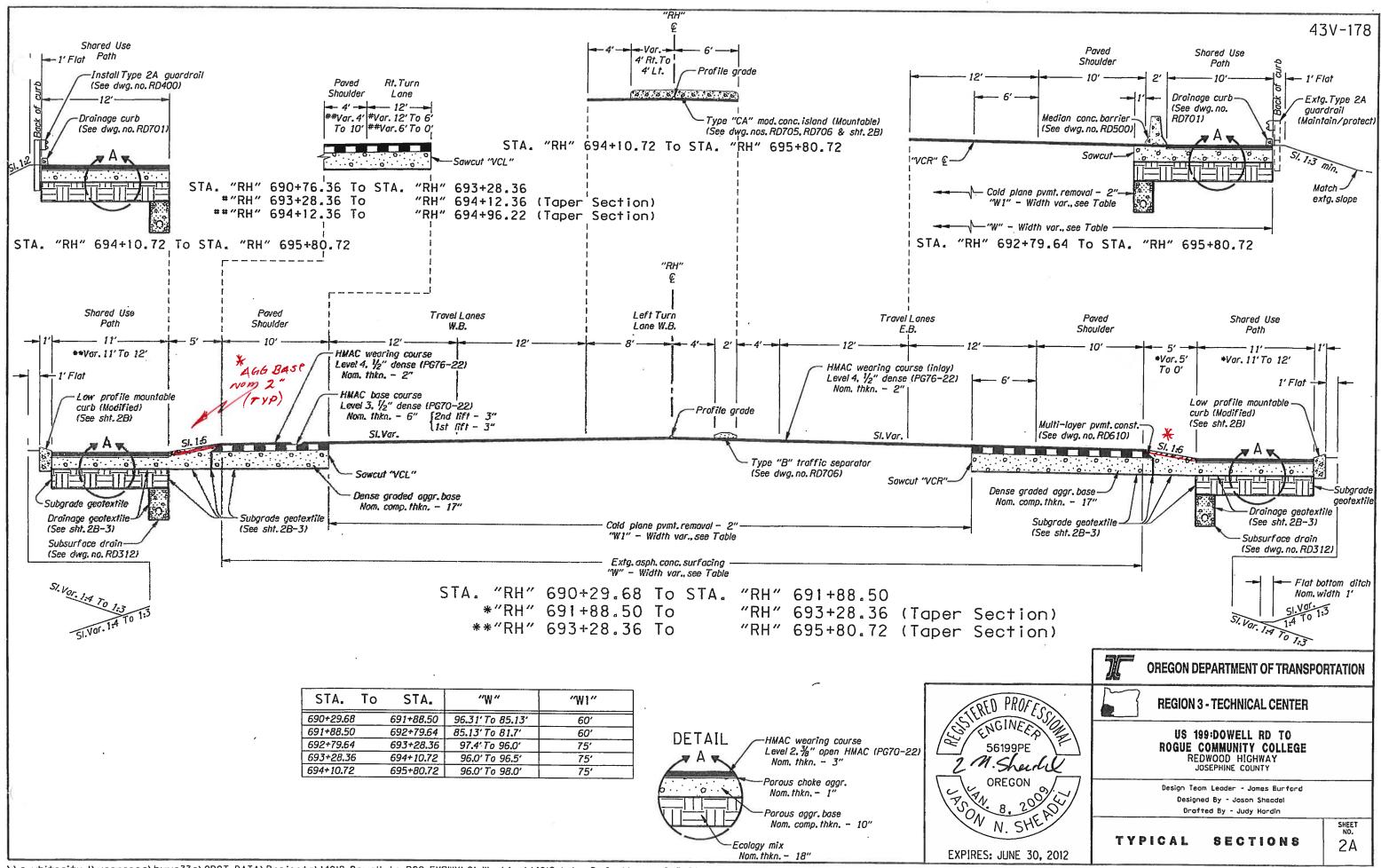
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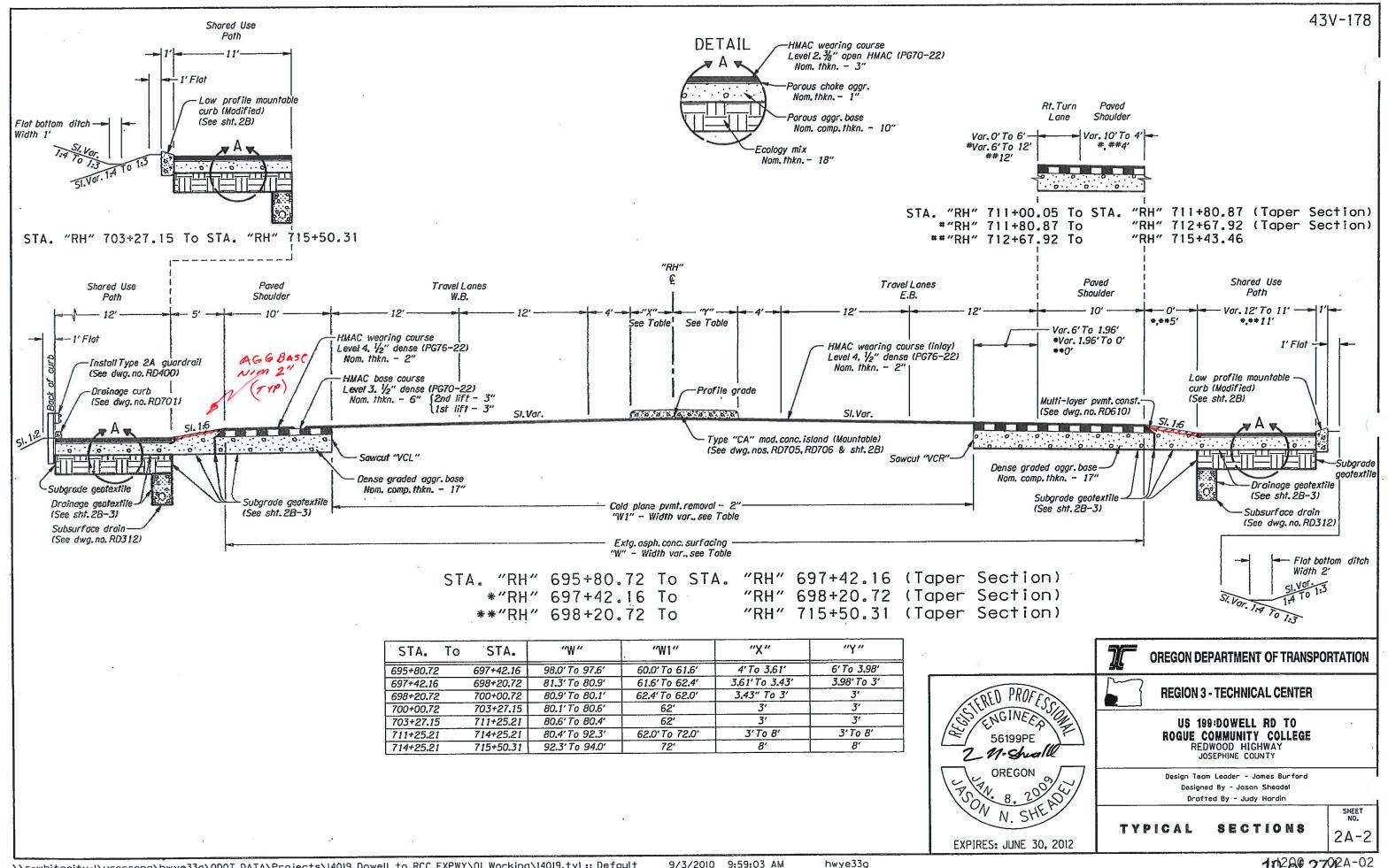
STP-0TIA-S025(044)

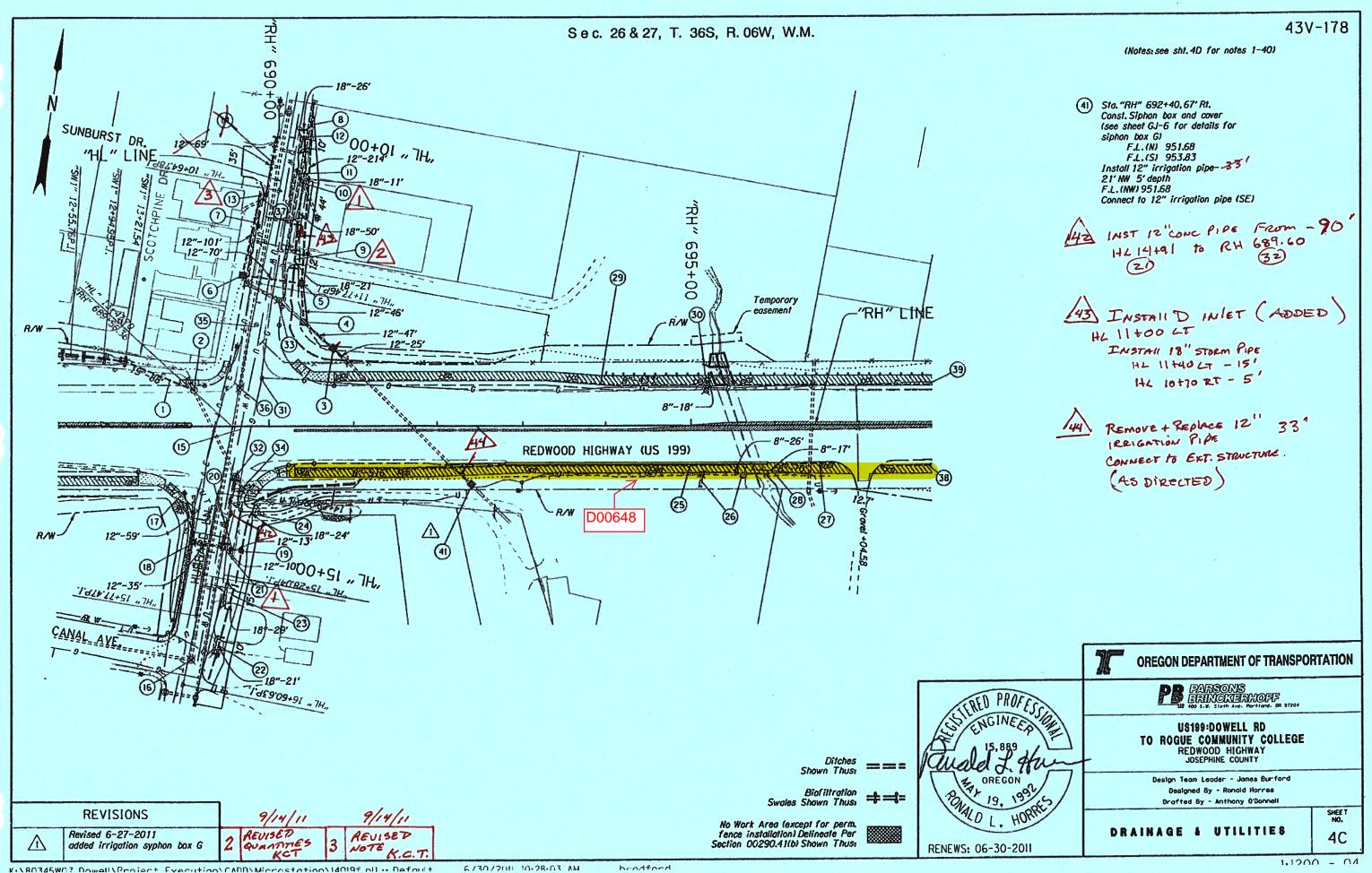
REDWCOD

BUSHNELL

SHEET







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1) Sta. "RH" 689+10.99, 42.58' Lt. To Sta, "RH" 688+29.29, 76.02' Lt. Inst. 15" storm sew.pipe - 88' 90'
           F.L.(E) - 952.65
F.L.(W) - 951.90
Const. 15" sloped end
           Const. loose riprap (Class 50) - 2.9 cu. yd.
                   Riprap Geotextile Type 2 - 7.4 sq.yd. (For detail, see sht.GJ-6)
          Sta. "RH" 689+10.99, 42.58' Lt.
          Const. storm sew. manhole
(See Dwg. No. RD336)
Rim - 958.16
F.L.(SE) - 952.65
         F.L.(NW) - 952.65
F.L.(NW) - 952.65
Connect to extg. 15" storm sew.pipe (SE)
Connect to 15" storm sew.pipe (NW)
Abandon 15" storm sew.pipe - Lt.side 1
       Sta."HL" 12+37.38, 99.48',L4. RT

Const. siphon box and cover

(See Sht. GJ-4 for details for Siphon Box A)

F.L. (SE) - 953.50

F.L. (N) - 957.00
         F.L.(NP) - 957.00
Remove extg. siphon box
Inst. 12" irrigation pipe -
5' 10' depth
F.L.(SE) - 953.50
         Connect to 12" irrigation pipe (N)
        Sta. "HL" 12+13.09, 58.73' Lt.
         Const. siphon box and cover F.L.(SE) - 956.00
                  F.L.(N) - 956.00
                  (See Sht.GJ-4 for details for Siphon Box B)
         Inst. 12" irrigation pipe - 47' SE
5' depth 43'
         Connect to 12" irrigation pipe (N)
 (5) Sta. "HL" 11+67.75, 47.79' Lt.
          Const. siphon box and cover
         (See Sht.GJ-4 for details - Siphon Box C),
F.L.(S) - 954.25 ADDED 8
                                                                          WM GATE
                 F.L.(N) - 954.25
                                                   VALVE IN BOX C (SFO-GP)
                 F.L.(W) - 952.50
         Inst. 12" irrigation pipe
        5' depth 45'
Connect to 12" irrigation pipe (N)
         Connect to 12" irrigation pipe (W)
 (6) Sta."HL" 11+71.09, 22.04' Rt.
         Remove extg. siphon box
        Remove extg. 10" irrigation pipe - 108' N
Const. siphon box and ever TRAFFIC RATED LID
(See Sht. GJ-4 for details - Siphon Box D)
                F.L.(E) - 951.75
                 F.L.(N) - 954.50
        Inst. 12" irrigation pipe - 70'E
        Connect to 12" irrigation pipe (N)
(7) Sta. "HL" 11+80.11, 22.26' Rt. To Sta. "HL" 10+71.11, 21.13' Rt.
       Inst. 12" Irrigation Pipe - 101',
```

F.L.(S) - 954.50 F.L.(N) - 948.20+/-Connect to Siphon Box D (S) Connect to extg. 12" irrigation pipe (N) Sto."HL" 11+67.75, 47.79'Lt. To Sto."HL" 9+53.83, 20.76 Lt.
Inst. 12" irrigation pipe - 244'N 8 1 3034 ceo 17
5' depth 217' 8 3034

Connect to extg. irrigation box (N)
Remove extg. 8" irrigation pipe - 178' S Sta. "HL" 11+51.79, 5.73' Lt. To Sta. "HL" 11+30.58, 33.09' Lt. Remove extg. 8" culv. pipe - 19' Inst. 18" culv. pipe - 24' 28.5' 23 F.L.(S) - 953.51F.L.(N) - 952.46 Const. 18" sloped end - 2 (See Dwg. No. RD318)

Sta. "HL" 10+49.80, 29.50 Lt. Remove extg. 12" culv. pipe - 58'
Remove extg. 6" storm sew. pipe - 18' NW /1\Const.shallow manhole Rim - 951.00 F.L.(SE) - 948.87 F.L.(N) - 948.28 F.L.(S) - 948.28 (See Dwg. No. RD342)
Connect to extg. 6" storm sew. pipe (SE) off set connection to fit Connect to 18" storm sew.pipe (N) Inst. 18" storm sew.pipe - 50'S. 5' depth F.L.(S) - 950.63

Sta. "HL" 10+49.80, 29.50 Lt. To Sta. 10+40.00, 24.90' Lt. Inst. 18" storm sew. pipe - 11'. 5' depth F.L.(S) - 948.28 F.L.(N) - 948.23 Const. 18" sloped end

Sta. "HL" 10+14.46, 21.16' Lt. To Sta. 9+88.78, 15.14' Lt. Remove extg. 12" culv. pipe - 20' Inst. 18" culv. pipe - 26'27' 5' depth F.L.(S) - 947.35 F.L.(N) - 947.00 Const. 18" sloped end

Sto. "HL" 10+72.48, 14.63' Rt. - CUT EXTG 18" CMP AS DIRECTED INST 18" CMP, 12' AS DIRECTED Const. type "G-2" Inlet Rim - 951.50

(See Dwg. No. RD364) Connect To 12" Storm Sew. pipe (H) CONNECT NEW 18" CMP TO EXTY 18" CMF AND INLET

Sto. "HL" 10+72.48, 14.63' Rt. To Sto. "HL" 10+02.81, 14.29' Rt. LT Inst. 12" Storm Sewer pipe 69 Existing Pipe to Remain 5' depth IN PLACE. F.L.(S) - 948.19 F.L.(N) - 947.50

Approx.location of new water line to be installed by City of Grants Pass Adjust Valve Box - Estimate 4
Field Verify Location

Sta."HL" 16+30.13, 3.37' Lt. Adjust sanitary sew.manhole – minor Method B Circular Cut (See Dwg. No. RD360)

Sta. "RH" 688+99.79, 78.80' Rt. Const. type "G-2" inlet Rim - 957.00 F.L.(S) - 954.37 Connect to 12" storm sew. pipe (S)

Sta. "HL" 14+92.83, 18.49' Rt. Remove extg. inlet Remove extg. 12" storm sew. pipe - 54' N Const type "G-2" inlet Rim - 956.07 F.L.(N) - 954.07 F.L.(E) - 954.07 Inst. 12" storm sew. pipe - 59' N. 5' depth Connect to 12" storm sew.pipe (E)

Sta. "HL" 14+92.33, 39.18' Lt. Const. type "D" Inlet Mod. Rim - 954.00 F.L.(W) - 954.00Const. 45° Grate Angle Connect To 12" storm sew. pipe (W)

Sta. "HL" 14+92.00, 26,20' Lt. Const. type "G-2" inlet Rim - 955.92 F.L.(E) - 953.94 F.L.(W) - 953.94 Inst. 12" storm sew. pipe - 13' E. 5' depth Connect to 12" storm sew.pipe (W)

Sta. "HL" 14+91.42, 16.17' Lt. Remove extg.inlet Remove extg. 12" storm sew.pipe - 36'W / Const. shallow manhole Rim - 956.18 F.L.(N) - 953.90 F.L.(S) - 953.88 F.L.(W) - 953.90 F.L.(E) - 953.90Connect to extg. 12" storm sew. pipe (N) Connect to extg. 12" storm sew. pipe (S) Inst. 12" storm sew.pipe - 35'W. 5' depth Inst. 12" storm sew. pipe - 10' E. 5' depth 131

Sta. "HL" 16+17.13.31.11' Lt. To Sta. 15+96.46, 32.59' Lt. Remove extg. 12" culv. pipe - 21' Inst. 18" culv. pipe - 21 27' EOR ADDED 6 5' depth F.L.(S) - 957.37 F.L.(N) - 956.52 Const. 18" sloped end

Sta. "HL" 15+63.92, 35.35' Lt. To Sta. 15+34.64, 38.42' Lt. Remove extg. 12" culv. pipe - 28' Inst. 18" culv. pipe - 29' 35 - EOR ADDED 6" 5' depth F.L.(S) - 954.73F.L.(N) - 954.48 Const. 18" sloped end

Sto. "HL" 14+58.36, 39.22' Lt. To Sto. 14+35.29, 43.96' Lt. Inst. 18" culv. pipe - 24'. 5' depth F.L.(S) - 954.09 F.L.(N) - 954.67 Const. 18" sloped end

Sta. "RH" 690+30.35, 49.83' Rt. To 695+45.94, 46.83' Rt. Inst.8" drain pipe - 516' Const. 4 cleanouts Sta "RH" 690+30.35, 49.83 Rt. 691+25 691+50.00, 49.83' Rt. 693+00.00, 46.83' Rt. 694+50.00, 46.83' Rt. F.L.(W) - 953.52F.L.(E) - 950.14 Connect to 8" storm sew.pipe

Sta. "RH" 695+45.94. 46.83' Rt. To Sta 695+65.58, 61.68' Rt. Remove exta.inlet Remove extg. 12" storm sew. pipe - 15'S Inst.8" storm sew.pipe - 26' 5' depth F.L.(W) - 950.14F.L.(E) - 945.77 Connect to extg. box culvert wingwall (For details, see sht. GE-4)

Sta. "RH" 696+71.59, 43.77' Rt. To 696+2.08, 46.42' Rt. Inst.8" Drain Pipe - 70' Const. cleanout Sta. "RH" 696+71.59, 43.77" F.L.(E) - 949.84 F.L.(W) - 949.55Connect to 8" storm sew.pipe

Sta. "RH" 696+02.08, 46.42' Rt. To Sta 695+91.08, 59.28' Rt. Inst. 8" storm sew. pipe- 17' 5' depth F.L.(NE) - 949.55 F.L.(SW) - 945.73 Connect to extg. box culvert wingwall (For details, see sht. GE-4)

(29) Sta. "RH" 690+76.36, 53.83' Lt. To Sta. 695+09.32, 47.83' Lt. To Sta. 695+09.32, 47.83' Lt. Const. 4 cleanouts Sta. "RH" 690+76.36, 53.83' Lt. **69/†25** Sta. 692+00.00, 53.83' Lt. Sta. 693+50.00, 52.27' Lt. Sta. 695+00.00, 47.83' Lt. F.L.(W) - 953.43F.L.(E) - 949.89 Connect to 8" storm sew.pipe

(30) Sta. "RH" 695+09.32, 48.73' Lt. To 695+26.15, 53.58' Lt. Remove extg.inlet Remove extg. 12" storm sew. pipe - 18' N Inst. 8" storm sew. pipe - 18' 24 5' depth F.L.(W) - 949.89 F.L.(E) - 945.25 Connect to box culvert wall (For details, see sht. GE-4)

(31) Sta. "HL" 12+87.64, 23.11' Lt. Adjust natural gas valves (By Others)

Sta, "RH" 689+60.78, 59.00' Rt. Adjust storm sew.manhole - minor Method B Circular Cut

(33) Sta. "HL" 11+92.89, 25.90' Lt. Remove extg. siphon box Remove extg. 8" irrigation pipe - 42' W Remove extg. 6" irrigation pipe - 40' N

(34) Sta."HL" 14+20.15, 25.33' Lt. Remove extg. inlet Remove extg. 12" storm sew. pipe - 21'S Remove extg. 12" storm sew. pipe - 10' NE Abandon 15" storm sew.pipe - Rt.side 1

Sta."HL" 12+26.31, 5.55' Lt. Adjust box - survey monument

Sta. "RH" 689+65.65, 45.45' Lt. Adjust sanitary sew. manhole - minor Method B Circular Cut

Sta. "HL" 10+79.05, 17.00' Rt. Tie exta.roof drain into curb (See Dwg. No. RD700)

(38) See Sht. 5B, Note 1 (39) See Sht. 5B, Note 3

REVISED NOTE K.C.T. 9-14-11 /Z\ K.C.T. REVISED ATY **REVISIONS** Revised 01-31-2011 Changed to shallow manhole



OREGON DEPARTMENT OF TRANSPORTATION



US199:DOWELL RD TO ROGUE COMMUNITY COLLEGE REDWOOD HIGHWAY JOSEPHINE COUNTY

Design Team Leader - James Burford Designed By - Ronald Horres Drafted By - Anthony O'Donnell

DRAINAGE & UTILITIES

4D

9-14-11

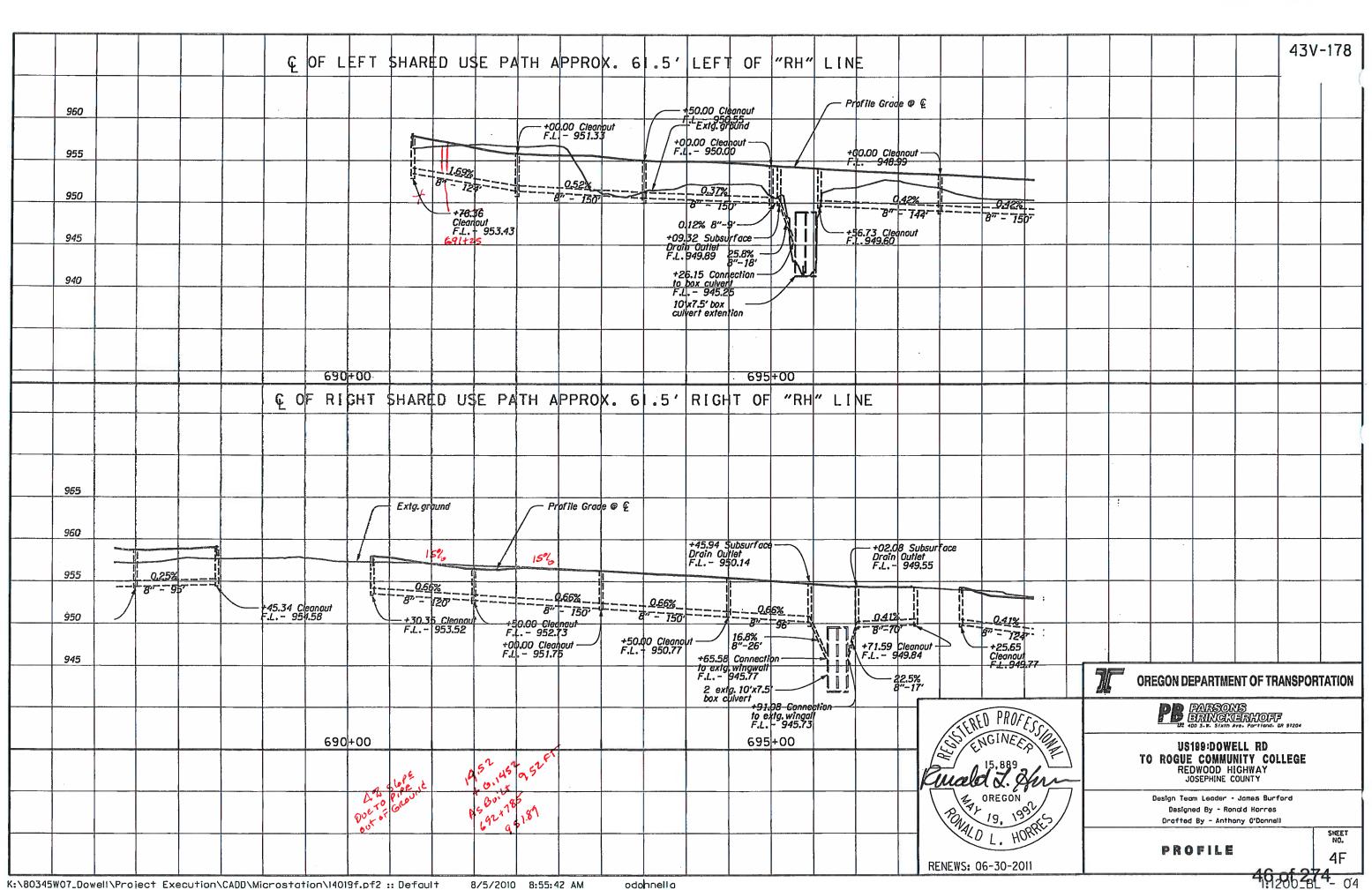
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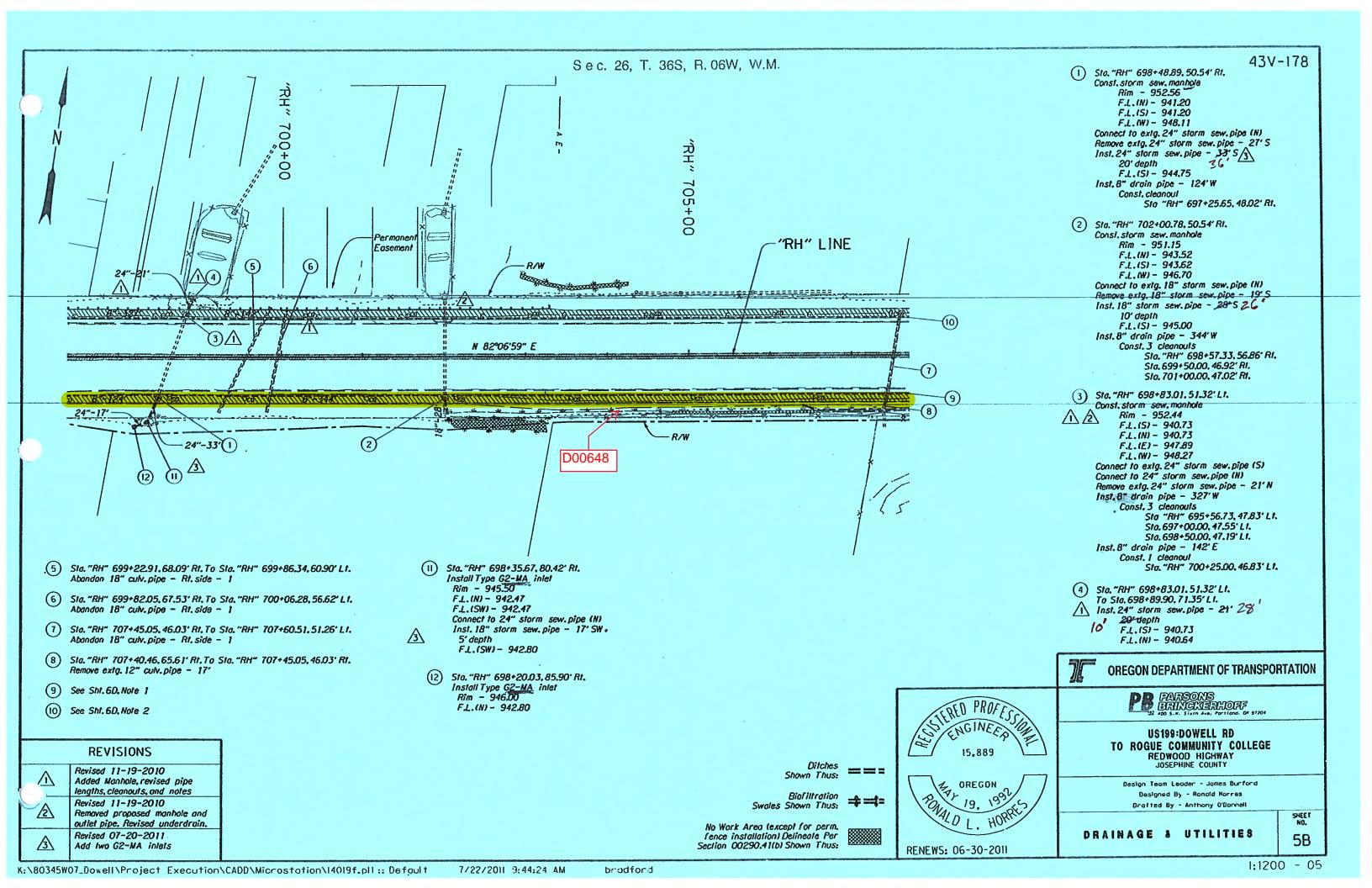
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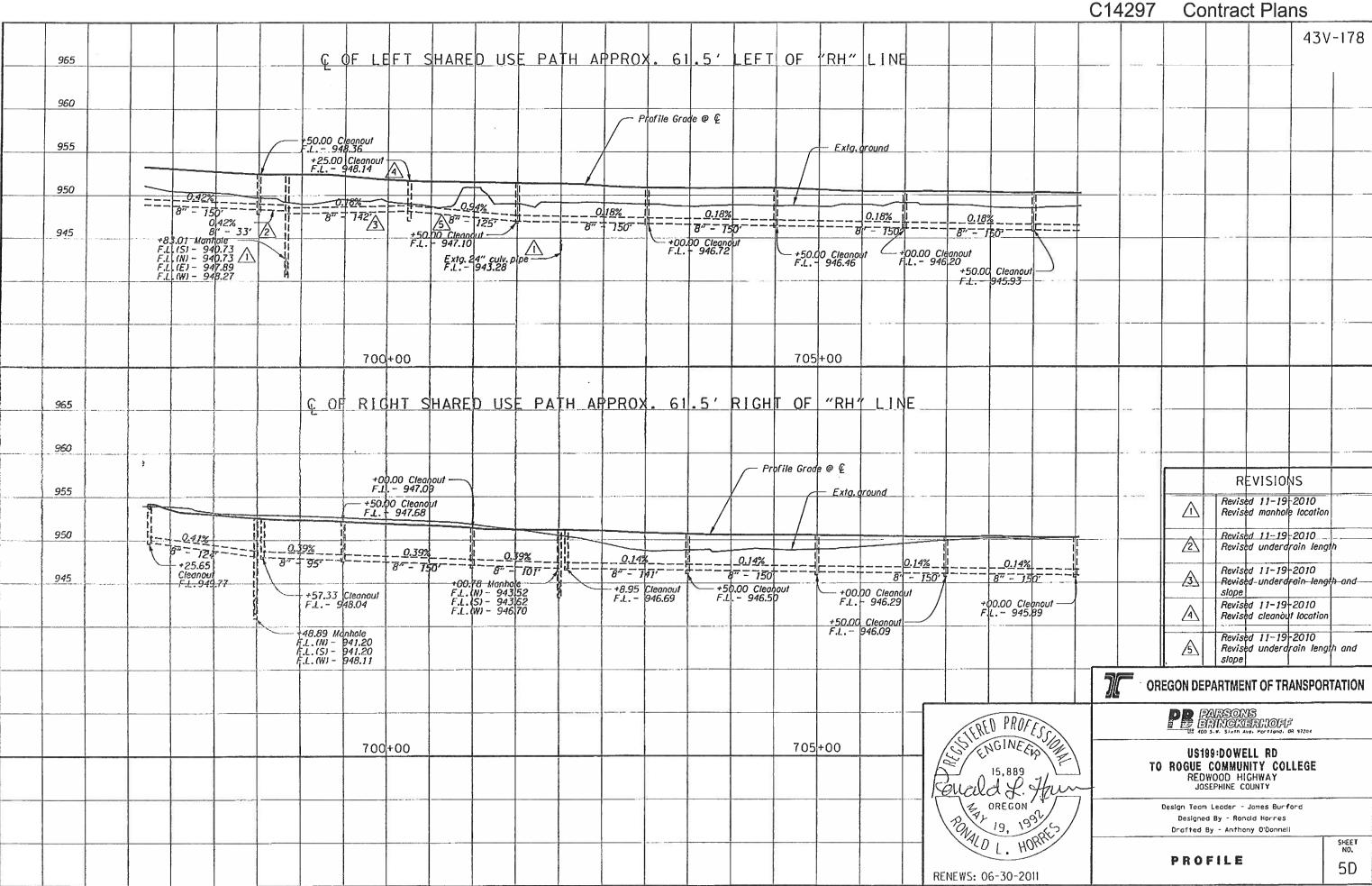
ENGINEER

OREGON

PONALO L. HORRE

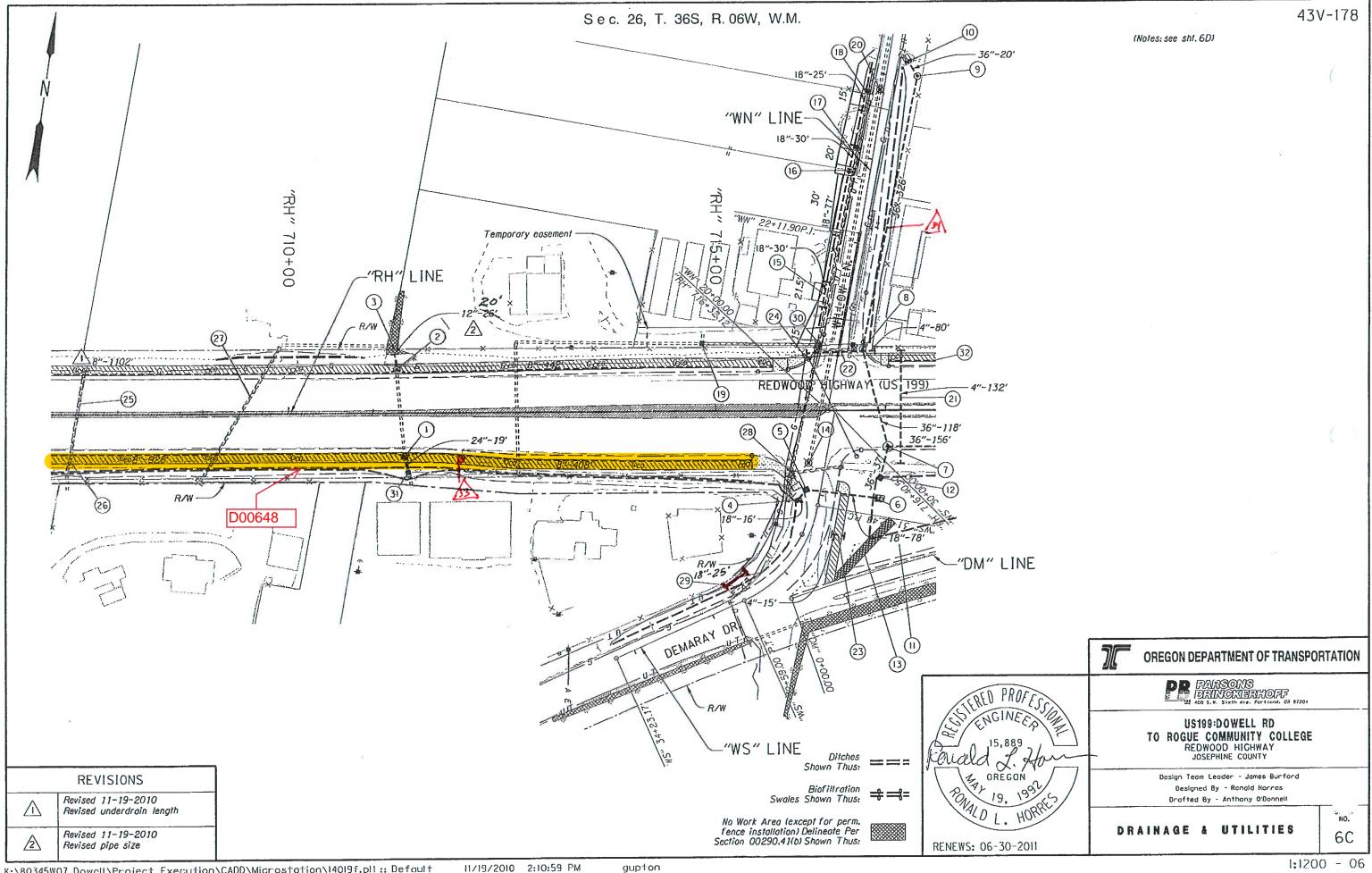






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43V-178

6 Sta. "WS" 30+96.53, 16.63' Rt. To Sta. 30+92.26.61.40' Lt.
Inst. 18" storm sew. pipe - 78' 74'
5' depth
F.L. (W) - 944.87
F.L. (E) - 944.50
Const. 18" Paved Culvert End Slope - 35 sq.ft.
(See Dwg. No. RD320)
Const. loose riprap (Class 50) - 4.1 cu. yd.
Riprap Geotextile Type 2 - 10.0 sq. yd.
(For detail, see sht. 6J-6)

Technical State of the state of the service of the

(8) Sta. "WN" 20+78.14, 27.64 Rt.
Remove extg. siphon box
Const. 60" storm sew.manhole w/ inlet
Rim - 948.90
F.L.(S) - 939.56
F.L.(N) - 939.56
Inst. 36" storm sew.pipe - 118'S,
10' depth
Connect to 36" storm sew.pipe (N)

Sta. "WN" 24+03.84, 35.55' Rt.

Const. 72" storm sew. monthole

Rim - 944.25

F.L.(S) - 938.56

F.L.(N) - 938.56

10' depth

Connect to 36" storm sew. pipe - 328' S ADD 7.5' PIPE

SCOPE END SECTION

AND SCOPE END SECTION

Connect to 36" storm sew. pipe (N)

(10) Sta. "WN" 24+03.84, 35.55' Rt. To Sta. 24+18.94, 22.40' Rt. Inst. 36" storm sew. pipe ~ 20' F.L.(S) ~ 938.56 F.L.(N) ~ 938.50

10' depth
Outfall to irrigation canal
Const. loose riprap (Class 100) ~ 27 cu.yd.
Riprap Geotextile Type 2 ~ 46.0 sq. yd.
(For detail, see sht. GJ-6)

Detention Facility
(For details, see sht.GJ)

(12) See Sht. GJ, Note 4

13) See Sht. GJ, Note 7

(14) Sta. "WS" 30+65.23, 19.49', Rt.
Adjust sanitary sew. manhole - minor
Method B Circular Cut

(15) Sto, "WN" 21+18.69, 27.90" Lt. To Sta. 21+48.69, 27.90" Lt. Inst. 18" culv. pipe - 30" 45 ' 5' depth F.L. (S) - 946.01 F.L. (N) - 945.46 Const. 18" sloped end - 2 17 Sta. "WN" 23+12.51.26.04' Lt. To
Sta. 22+82.82.27.13' Lt.
Inst. 12" storm sew. pipe - 30",
18" 5' depth
F.L.(S) - 943.07
F.L.(N) - 942.95
Const. 12" sloped end

TRANSTAIN THAT Y ACCESS 30
TRANSTAIN THAT Y ACCESS 30

(18) Sta. "WN" 23+54.00, 23.46' L1. To Sta. 23+78.97, 20.29' L1. Inst. 18" culv. pipe - 25'30' 5' depth F.L.(S) - 942.66 95 PER EOR F.L.(N) - 942.04 Const. 18" sloped end -2 FEX

(19) Sta. "RH" 714+83.95, 79.38' Lt.

Const. siphon box and cover TRAFFIC RATED LID

(See Sht. GJ-6 for details - Siphon Box E)

F.L. (W) - 945.0±

Connect to extg. irrigation pipe (N)

Relocate 41 of 101 fipe From E. to M.

(20) Sta. "WN" 23+81.34.23.46' Lt.
Adjust sanitary sew. manhole - minor
Method B Circular Cut

21) Sta. "RH" 717+17.72.70.06' L1. To Sta. 717+17.72.61.94' Rt. Inst. 4" irrigation sleeve - 132' 5' depth F.L. (N) - 945.00 F.L. (S) - 945.00 Inst. irrigation sleeve end - 2 (For details, see sht. GN-1)

22) Sta. "RH" 716+07.55,67.46' Lt. To Sta. 716+87.50, 70.19' Lt. Inst. 4" irrigation sleeve - 80' 5' depth F.L.(W) - 946.00 F.L.(E) - 945.00 Inst. irrigation sleeve end - 2 (For details, see shf. GN-1)

(23) Sto. "WS" 31+38.44, 24.38' Lt. To Sto. 31+36.39, 39.18' Lt. Inst. 4" irrigation sleeve - 15' 5' depth F.L. (W) - 947.75 F.L. (E) - 947.00 Inst. irrigation sleeve end - 2 (For details, see sht. GN-1)

(24) Sta. "RH" 716+04.02,65.35' Lt.
Adjust natural gas valves
(By Others)

REVISIONS

(25) See sht. 5B. note 7

(26) See sht. 5B, note 8

27) Sta. "RH" 708+97.11, 78.24' Rt. To Sta. 709+88.92, 75.69' Lt. Abandon 12" irrigation pipe - Rt. side - 1

(28) Sta. "RH" 715+88.93, 72.56' Rt.
Remove extg. inlet
Abandon 12" storm sew. pipe - Rt. side - 1
Abandon 18" storm sew. pipe - Lt. side - 1
Remove extg. 18" storm sew. pipe - 33-5 25'
REPLACED (ADS)

Sta. "WS" 32+42:80, 20:86 Rt. To Sta. 32+68:77, 13.74 Rt.
Remove extg. 18" culv. pipe = 25'
REINSTAIL 15" culv PIPE 25'

Sta. "WN" 20+73.77, 25.27' Lt.
Remove extg. siphon boxes - 2
Abandon 12" irrigation pipe - Rt. side - 1
Abandon 8" irrigation pipe - Rt. side - 1
Abandon 10" irrigation pipe - Lt. side - 1

Abondon 10" irrigation pipe - Lt. side - 1
Relocate 4' of 10" Pipe to aren Siphon Box E (N)

Sta. "RH" 711+40.22, 50.73' Lt. P. SEE 19

Const. type "Field" inlet G2-MA

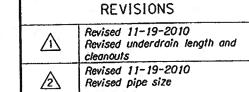
Rim - 948.40 F.L.(S) - 945.90 F.L.(N) - 945.90 Connect to extg. 24" storm sew. pipe (S)

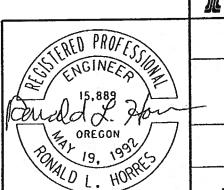
Connect to 24" storm sew.pipe (N)

(32) See Sht. 7B. Note 4

ADJUST Ext. SIPHONI BOX + INSTALL LIO (G)

1 NSTALL SUBSURFACE DRIVIS - 8 EA WN 21440 to 23 +85 RT





RENEWS: 06-30-2011

OREGON DEPARTMENT OF TRANSPORTATION

PARSONS
EMINGMENTORF
200 S.W. SIXIN AVE. POTTLONG. OR 91204

US199:DOWELL RD
TO ROGUE COMMUNITY COLLEGE
REDWOOD HIGHWAY
JOSEPHINE COUNTY

Design Team Leoder - James Burford Designed By - Ronald Horres Drofted By - Anthony O'Donnell

DRAINAGE & UTILITIES

6D 1:1200 - 06A

PM gupton

Inst. 18" storm sew. pipe - 18" W

5' depth

