OPERATION & MAINTENANCE MANUAL Water Quality Planter

Manual prepared: November 2017

DFI No. D00583, D00584, D00585, D00586



Figure 1: DFI D00584, looking south

1. Identification

Drainage Facility ID (DFI): D00583

Facility Type: Water Quality Planter

Construction Drawings: (V-File Numbers) 45V-038

Location: District: 2B

Highway No.: 123

Mile Post: 12.72-12.73, right side

Drainage Facility ID (DFI): D00584

Facility Type: Water Quality Planter

Construction Drawings: (V-File Numbers) 45V-038

Location: District: 2B

Highway No.: 123

Mile Post: 12.75-12.76, right side

Drainage Facility ID (DFI): D00585

Facility Type: Water Quality Planter

Construction Drawings: (V-File Numbers) 45V-038

Location: District: 2B

Highway No.: 123

Mile Post: 12.78-12.79, right side

Drainage Facility ID (DFI): D00586

Facility Type: Water Quality Planter

Construction Drawings: (V-File Numbers) 45V-038

Location: District: 2B

Highway No.: 123

Mile Post: 12.82-12.83, right side

2. Manual Purpose

The purpose of this manual is to outline inspection needs and summarize maintenance actions for water quality planters.

3. Facility Location

The location map below details the facility location. The highway, mile posts, side streets, access location, and stormwater flow directions are noted on the map.

Facility location type: In sidewalk

Flow direction: East



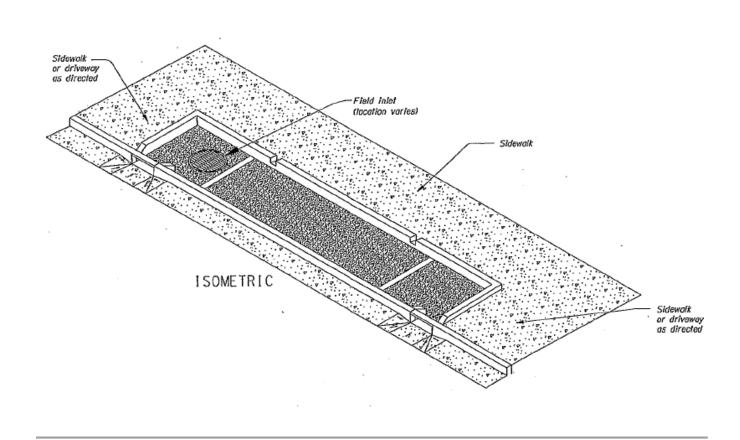
Figure 2: Facility Location Map

4. Facility Summary

The length and width of the WQ Planter is based on the dimensions of the inside of the treatment cell.

The length and width of the WQ Planters are:

Facility DFI	Length (Feet)	Width (Feet)
D00583	76	3.5
D00584	27 3.	
D00585	45	3.5
D00586	31	3.5



<u>Site Specific Information:</u> The planters have blended compost and topsoil mixture. There are also three types of grasses in the planters and two curb inlets. There are no bypass inlets on the planters.

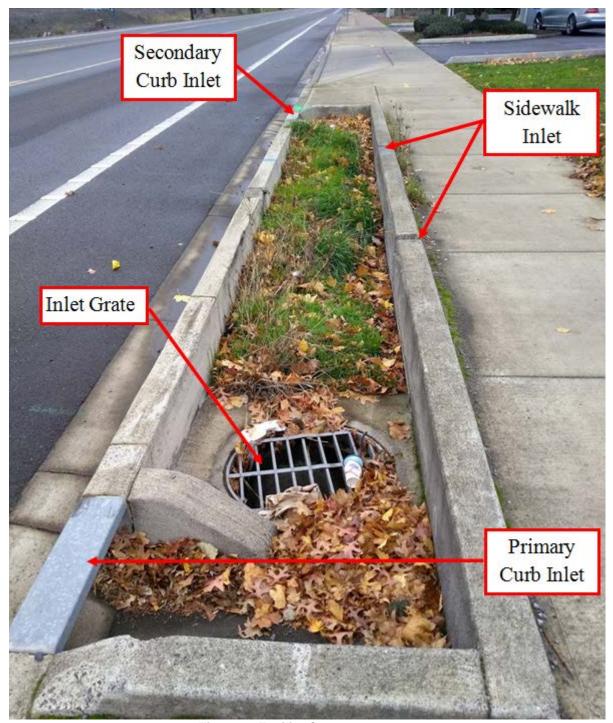


Figure 4: Facility Components



Figure 5: Facility Components

5. Facility Access

Maintenance access to the facility: Curb and gutter (travel lane)

☒ Lane Closure Needed

Water quality planters do not typically have access roads/access pads, nor are they gated, as they are located in urban areas alongside sidewalks and curbs. Use caution when accessing these facilities as there may be pedestrians or cyclists in the vicinity.

6. Operational Components / Maintenance Items

Classification and Standard Operational (Op) Plan:

This facility is classified as a:

□ Filterra (Op Plan A)	⊠ WQ Planter (Op Plan B)	□ MWS (Op Plan C)
A Filterra is a single chamber treatment cell that utilizes filter media, a plant, and a perforated underdrain.	A WQ Planter is a single chamber treatment cell that utilizes plants, filter media, and a perforated underdrain. The auxiliary outlet is located inside of the treatment cell.	A Modular Wetland System is a three chamber treatment cell that utilizes plants, filter media, filter media cartridges, and a perforated underdrain network.
A standard operational plan illustrates the general facility footprint configuration and explains the purpose of each facility component. Operational plans (A and B) are provided in the Standard Operation Manual.		

See Appendix A for the site specific operational plan.

Operational Components

The facility components table (**Table 1**) has been provided to highlight the applicable components for this facility. The component is in use when the box contains an "x" (e.g. \boxtimes).

The Standard Operation Manual for Water Quality Planters (implemented April 2018) outlines facility operation, typical footprint configuration, and component definitions and details. A link to the manual is attached to the feature marker in TransGIS.

https://gis.odot.state.or.us/TransGIS/

Maintenance Items

Operational components marked in **Table 1** should be inspected and maintained according to Section 7. Each facility component is defined and detailed in the Standard Operation Manual using the associated ID number indicated below.

Table 1: Facility Components		ID#	
Facility Inlet			
Inlet Grate		P1	
Curb Inlet	X	P2	
Sidewalk Chute		P3	
Bypass Inlet		P4	
Treatment			
Plants (Tree or Shrub)		P5	
Grass	X	P6	
Filter Media		P7	
Filter Media Cartridge		P8	
Planter Components			
Perforated Pipe	X	P9	
Outlet Grate	X	P10	
Outfall Type			
Waterbody (Creek/Lake/Ocean)		P11	
Ditch		P12	
Storm Drain System	\boxtimes	P13	

7. Maintenance

Maintenance Frequency/Maintain Records

- a. Full inspection annually. Preferably prior to the rainy season.
- b. Clean and maintain as necessary. Refer to Activity 125 for conditions when maintenance is needed.
- c. Keep a record of inspections, maintenance, and repairs.

Maintenance Guide/Maintenance Actions

The ODOT Routine Road Maintenance Water Quality and Habitat Guide (the *Blue Book*) outlines the standard maintenance actions for water quality facilities under Activity 125.

There are standard maintenance tables for standard ODOT designs. The maintenance tables describe the maintenance component, the defect or problem, the condition

when maintenance is needed, and the recommended maintenance to correct the problem. Use the following tables to maintain these water quality planters:

- Table 1 (General Maintenance): Contains general maintenance and inspection guidelines that are applicable to all ODOT water quality facilities. Maintenance of inlets, outlets, trash removal and noxious weeds is recommended <u>seasonally</u>.
- Table 3 (Maintenance of Water Quality or Biofiltration Swales): Contains maintenance information for swales. The planted area of these planters should be maintained as described for the bottom and sides of swales, by using equipment other than mowers to control plant height. Replant if needed with plants from the original plans, or as recommended by ODOT landscaping and stormwater staff.

The *Blue Book* can be viewed at the following website: http://www.oregon.gov/ODOT/Maintenance/Documents/blue_book.pdf

8. Limitations

Vactors may be used at the inlet, outlet, and grated areas. No heavy equipment may be used in the planted areas.

9. Waste Material Handling

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

http://www.oregon.gov/ODOT/HWY/OOM/pages/ems.aspx

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

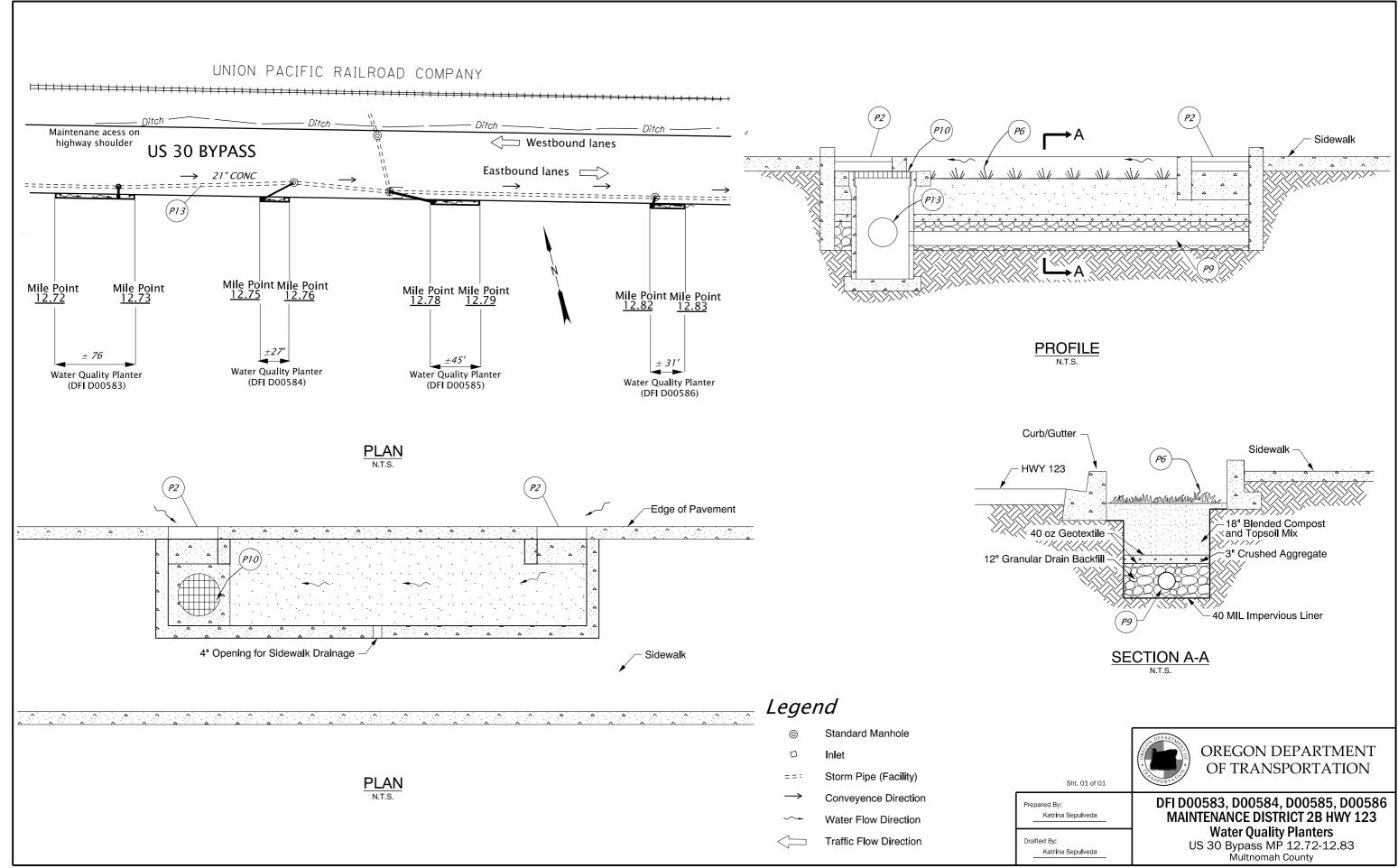
ODOT Clean Water Unit	(503) 986-3008
ODOT Statewide Hazmat Coordinator	(503) 667-7442
ODOT Region 1 Hazmat Coordinator	(503) 731-8290
ODOT Region 2 Hazmat Coordinator	(503) 986-2647
ODOT Region 3 Hazmat Coordinator	(541) 957-3594
ODOT Region 4 Hazmat Coordinator	(541) 388-6186

ODOT Region 5 Hazmat Coordinator	(541) 963-1590
ODEQ Northwest Region Office	(503) 229-5263

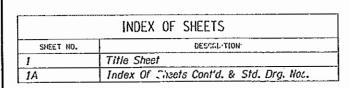
A Appendix A – Site Specific Operational Plan

Contents:

Operational Plan: DFI D00583-D00584, D00585, and D00586



B Appendix B – Project Contract Plans	
Contents:	
Site Specific Subset of Project Contract Plan 45V-038	
B-2 Facility Specific O&M Manual – Planted Water Quality Planter	D00583-D00586



CONTRACT PROJECT

BEGINNING OF PROJECT &

STATE OF OREGON OF TRANSPORTATION DEPARTMENT

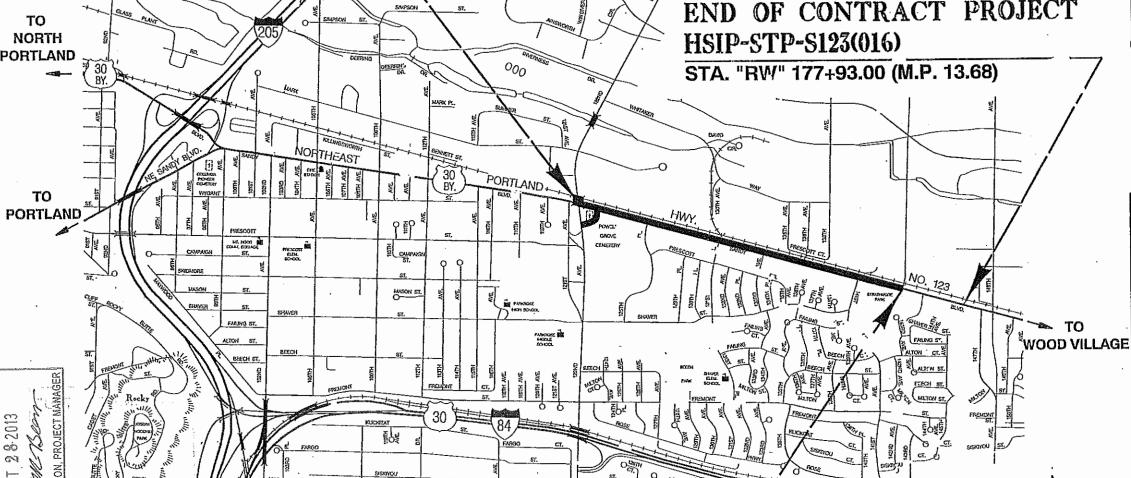
PLANS FOR PROPOSED PROJECT

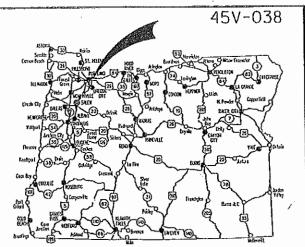
GRADING, DRAINAGE, PAVING, PAVEMENT MARKERS, SIGNING, SIGNALS & ROADSIDE DEVELOPMENT

US 30 BYPASS: NE 122ND - M.P. 13.54 SEC.

HSIP-STP-S123(016) NORTHEAST PORTLAND HIGHWAY







Overall Length Of Project - 1,09 Miles

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.)



OREGON TRANSPORTATION COMMISSION

Pat Egon Mary F. Oison David Lohman

COMMISSIONER COMMISSIONER

CONMISSIONER 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: | RULEY Naveen G. Chandra, P.E.

Project Delivery Manager, Region 1

Concurrence by ODOT Chief Engineer

US 30 BYPASS: NE 122ND - M.P. 13.54 SEC. NORTHEAST PORTLAND HIGHWAY

FEDERAL HIGHWAY ADMINISTRATION	PROJECT NUMBER	SHEET NO.
OREGON DIVISION	HSIP-STP-S123(016)	1

T. 1 N., R. 2 E., W.M.

TROUTDALE

000 PE001435 "AS CONSTRUCTED"

FND OF PROJECT

STA. "RW" 170+44.71 (M.P. 13.54)

HSIP-STP-\$123(016)

OREGON CITY

- Rail Transition From Flex Beam Rail To Curb & Parapet Rail

- Vehicle, Ped, Signal & Push Button Mounting Details

- Overhead Sign, Fire Preemption & Photoelectronic Details

- Pedestrian Ramp Placement Details

- Pavement Marking Standard Details

- Rail Crossing Pavement Markings

- Durable Pavement Markings

- Alignment Layout

- Traffic Delineators

- Turn Arrow Marking Details

- Intersection Pavement Markings

- Traffic Delineator Installation

- Traffic Delineators Steel Post Details

- Adjustable Signal Head Mounting Details

- Median And Left Turn Channelization Details

- Construction Entrances

- Inlet Protection

- Sediment Fence

- Sign Bracing Detail

- Details

45V-038

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	INDEX OF SHEETS, CONT'D.	
SHEET NO.	DESCRIPTION	
2,2A,2A-2 thru 2A-5	Typical Sections	
28,28-2 thru 28-8	Details .	
2C,2C-2 Thru 2C-5	Traffic Control Plans	
`2D	Pipe Data Sheet	
3	General Construction	
3A & 3A-2	Drainage & Utilities	
38	Profile	
4	General Construction	
4A & 4A-2	Drainage & Utilities	
4B	Profile	
5	General Construction	
5A & 5A-2	Drainage & Utilities	
5B .	Profile	
6	General Construction	
6A & 64-2	Drainage & U."ities	
7	General Construction	
7A & 7A-2	Drainage & Utilities	
7B	Profile	
8	General Construction	
8A	Drainage & Utilities	
	GEO/HYDRO	
GA,GA-2 Thru GA-10	Erosion Control	
GB & GB-2	Geotechnical Data	
GM	Mandatory Disposal Site	
	ROADSIDE DEVELOPMENT	
GN,GN-2 & GN-3	Details	
GN-4 Thru GN-8	Roadside Development Plans	
•	PERMANENT PAVEMENT MARKINGS	
ST.ST-2 Thru ST-5 Incl.		
PERMANENT SIGNING		
S-13094 Thru S-13104	Permanent Signing	

	INDEX OF SHEETS, CONT'D.
SHEET NO.	DESCRIPTION
	TRAFFIC SIGNALS
16463	Legend
16464	Removal Plan
16465	Signal Plan
16466	Detector Plan
16467	Existing Utilities
16468	Removal Plan
16469	Signal Plan
16470	Detector Plan
16471	Existing Utilities
16472	Interconnect Plan
16473	Flashing Beacon Plan
16474	Existing Utilities
16475	Details
16476	Details
16494	Details
16495	Details

Standard Drg. Nos.

RD610

RD705

RD710

RD715 RD720

RD725

RD735

RD755

RD759

RD700, RD701

	·
RD140	- Roadway Cross Slopes Superelevated Sections
RD150	- Slope Rounding
RD300 ·	Trench Backfill, Bedding, Pipe Zone And Mult. Installations
RD302	Street Cut
RD312	- Subsurface Drain
RD336, RD338, RD342	- Manholes
RD344, RD346	
RD356	- Manhole Cover & Frames
RD360	- Manhole Frame Adjustment
RD362	- Sanitary Cleanout
RD370	- Concrete Inlets
RD380, RD386, RD388	- Pipe Fill Height Tables
RD390	
RD399	- Stormwater Treatment and Storage Facility Field Markers
RD400, RD405, RD410, RD415,	– Guardroil
RD420, RD425, RD430, RD435,	
RD440, RD445, RD450, RD470	•
	<i>\(\)</i>

- Asphalt Pavement Details

- Accessible Route Islands

- Sidewalk Ramp Details

And Locations

- Approaches And Non-Sidewalk Driveways

- Separated Sidewalk Driveways or Alleys

- Curb Line Sidewalk Driveways or Alleys

- Truncated Dome Detectable Warning Surface Details

- Curbs

- Islands

- Sidewalks

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TM670	- Wood Post Sign Supports
TM671	- 3 Second Gust Wind Speed Isotach
TM677	– Sign Mounts
TM681,TM687,TM688	- Square Tube Sign Supports
\$	· .•
TM800	- Tables, Abrupt Edge And PCMS Details
TM810	- Temporary Reflective Pavement Markers
TM820	- Temporary Barricades
TM821	– Temporary Sign Supports
TM840,TM841,TM842	- Closure Details
TM844	- Temporary Pedestrian Access Routing
TM850	- 2-Lane, 2 Way Roadways
TN:851	- Non-Freeway Multi-Lane Sections

R/W Map No.11B-05-0025

RD1000

RD1015

RD1040

BR270

TM204

TM211

TM457

TM458

TM462

TM465

TM505

TM525

TM530

TM539

TM570

TU571

TM576

TM520,TM521

TM560,TM561

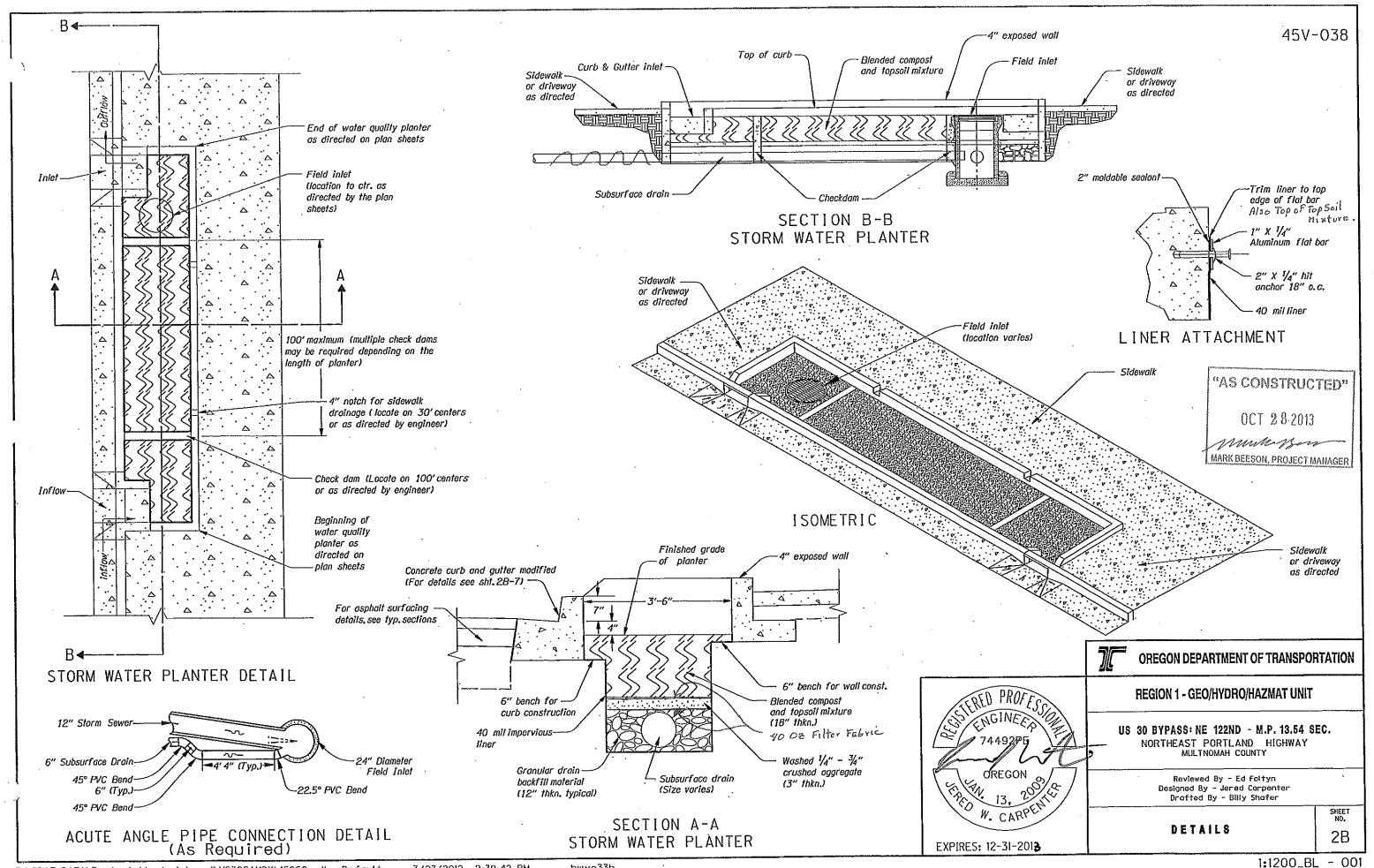
TM500,TM501, TM503

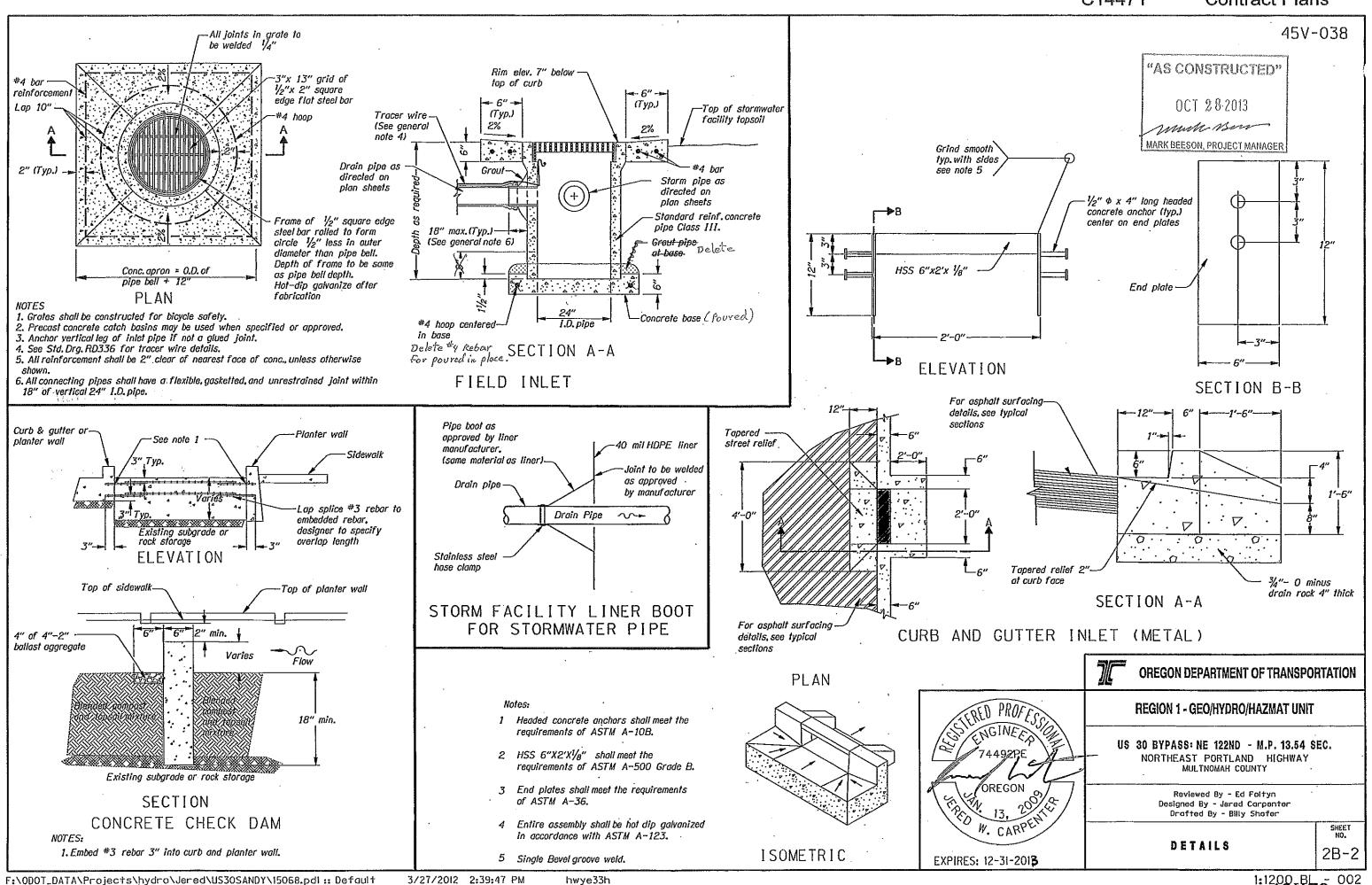
'AS CONSTRUCTED' OCT 28-2013 MARK BEESON, PROJECT MANAGER

US 30 BYPASS: NE 122ND - M.P. 13.54 SEC.
NORTHEAST PORTLAND HIGHWAY
MULTNOMAH COUNTY

FEDERAL HIGHWAY ADMINISTRATION	PROJECT NUMBER	SHEET NO.
OREGON DIVISION	HSIP-STP-S123(016)	1A

Standard Drawings located on the web at: http://www.oregon.gov/ODOT/HNY/ENGSERVICES/standard drawings home.shtml





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EXPIRES: 12-31-201\$

45V-038

- (1) See sht. 3A, notes 1 & 17
- (2) See sht. 3A, note 9
- (By others)
- Relocate sanitary manhole 2 (By others)
- (5) Sta. "RW" 124+70.51, Rt. to Sta. "RW" 125+08.51, Rt. Const. water quality planter strip - 16.9 sq. yds. (Drainage facility 1D# D00582) (For details, see shts. 2B & 2B-2)
- 6 Sta. "RW" 124+71.01, 34.25', Rt. to Sta. "RW" 125+01.72, 34.25', Rt. Inst. 6" drain pipe – 31' (For details, see shts. 28 & 28-2)
- 7 Sta. "RW" 125+01,72, 34,25', Rt, to Sta. "RW" 125+08,01, 34,25', Rt, Inst, 6" drain pipe - 6' (For details, see shts, 2B & 2B-2)
- 8 Sta. "RW" 126+81.34, Rt. to Sta. "RW" 127+56.99, Rt. Const. water quality planter strip - 33.6 sq. yds. (Drainage facility ID# D00583) (For details, see shts. 28 & 2B-2)
- (9) Sta. "RW" 126+81.84, 34,25', Rt. to Sta. "RW" 127+41.49, 34,25', Rt. Inst. 6" drain pipe - 60' (For details, see shts. 28 & 28-2)
- (10) Sta. "RW" 127+41.50, 24.64 Rt.

 Const. storm sewer manhole 60"

 over existing storm sewer

 Inst. 12" Ductile Ivon Sewer pope 10
- (II) Sta. "RW" 127+41.49, 34.25', Rt. to Sta. "RW" 127+56.49, 34.25', Rt. Inst. 6" drain pipe – 15' (For details, see shts. 28 & 28-2))
- (12) Sta. "RW" 128+77.01, Rt.-to Sta. "RW" 129+05.01, Rt. Const. water quality planter strip - 12.4 sq. yds. (Drainage facility ID# D00584) (For details, see shts. 2B & 2B-2))
- (13) Sta. "RW" 128+79.26, 34.25'. Rt. to Sta. "RW" 129+04.51, 34.25', Rt. Inst. 6" drain pipe - 25' (For details, see shts. 28 & 28-2))

(14) Sta. "RW" 128+79,26, 34,25', Rt. to Sta. "RW" 128+43,40, 45,19', Rt. Inst. 12" sewer pipe - .65/1,2', 13,42' Rt. /b' & depth querile tron Connect to extg. manhole 60"

26) sta "RW" 128+83.1, 23.42 Rt.
Constr. 60" storm Sewer manhole
over existing storm sewer

- (15) Sta. "RW" 130+40.65, Rt. to Sta. "RW" 130+86.65, Rt. Const. water quality planter strip - 20.4 sq. yds. (Drainage facility ID# D00585) (For details, see shts. 28 & 28-2))
- 130+44.75

 (16) Sta. "RW" 130+42.90, 34.25', Rt. to
 Sta. "RW" 130+86.15, 34.25', Rt.
 Inst. 6" drain pipe 43'
 (For details, see shts. 2B & 2B-2))
- 44.75

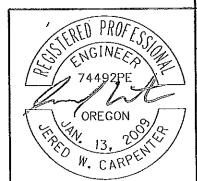
 Sta. "RW" 130+42:90, 34.25', Rt. to
 Sta. "RW" 130+00.68-25.05', Rt. 130+08.73, 27' Rt.
 Inst. 12" sewer pipe 43' 55.6'
 5' depth
 Connect to extq. manhole
- (B) Sta."RW" 132+50.00, Rt. to
 Sta."RW" 132+83.30, Rt.
 Const. water quality planter strip -- 25.9 sq. yds.
 (Drainage facility ID# D00586)
 (For details, see shts. 2B & 2B-2)
- (19) Sta. "RW" 132+52.25, 34.25', Rt. to Sta. "RW" 132+82.79, 34.25', Rt. Inst. 6" drain pipe – 31' (For details, see shts. 2B & 2B-2)
- 54.64 (20) Sta. "RW" 132+52.25, 34.25', Rt. to Sta. "RW" 132+54.62 25.75', Rt. Inst. 12" sewer pipe - 9' 10' depth Connect to extg. manhole
- (21) Relocate phone pedestal (By others)
- (22) Relocate hydrant 2 (By others)
- (23) Relocate utility poles 9 (By others)
- 24 Sta. "RW" 127+41.49, 34.25 Rt. to Sta. "RW" 127+41.50, 24.64 Rt. Inst. 12" sewer pipe - 10' 10' depth
- (25) Minor adjust manhole 4

	Water Q	uality Feature Loca	tion Table
Ctr. Station	Off set (Rt.)	Feature Type	Notes
"RW" 124+72.01	32.00	Curb & Gutter Inl	李松
"RW" 125+01.72	34.25	Field Inlet	*, place on top of extg. storm sewer
"RW" 126+82.84	32.00	Curb & Gutter Inl	秦莽
"RW" 127+41.49	34.25	Field Inlet	*
"RW" 127+55.49	32.00	Curb & Gutter Inl	**
"RW" 128+79,26	34.25	Field Inlet	*
"RW" 129+03.51	32.00	Curb & Gutter Int	***
"RW" 130+42.90	34.25	Field Inlet	*
"RW" 130+50.65	32.00	Curb & Gutter Inl	幸松
"RW" 130+63.65	34.25	Flow Spreader	*
"RW" 130+85.15	32,00	Curb & Gutter Inl	**
"RW" 132+52,25	34,25	Field Inlet	4
"RW" 132+81.80	32.00	Curb & Gutter Inl	李老

General Notes:

See Sht. 2B-1 for details of curb & guiter inlet, flow spreader, and field inlet referenced in the table obove.

* Offset shown is to ctr of feature ** Offset shown is to top face of curb



EXPIRES: 12-31-2013

OREGON DEPARTMENT OF TRANSPORTATION

REGION 1 - Geo/Hydro/HazMat Unit

US30 BYPASS: NE 122ND - M.P. 13.54 SEC.
NORTHEAST PORTLAND HIGHWAY
MULTNOMAH COUNTY

Reviewed by - Ed Foltyn Designed by - Jered Corpenter Drafted by - Billy Shafer

DRAINAGE & UTILITIES

SHEET NO. 4A-2

"AS CONSTRUCTED"

OCT 282013 Mull 1500

MARK BEESON, PROJECT MANAGER

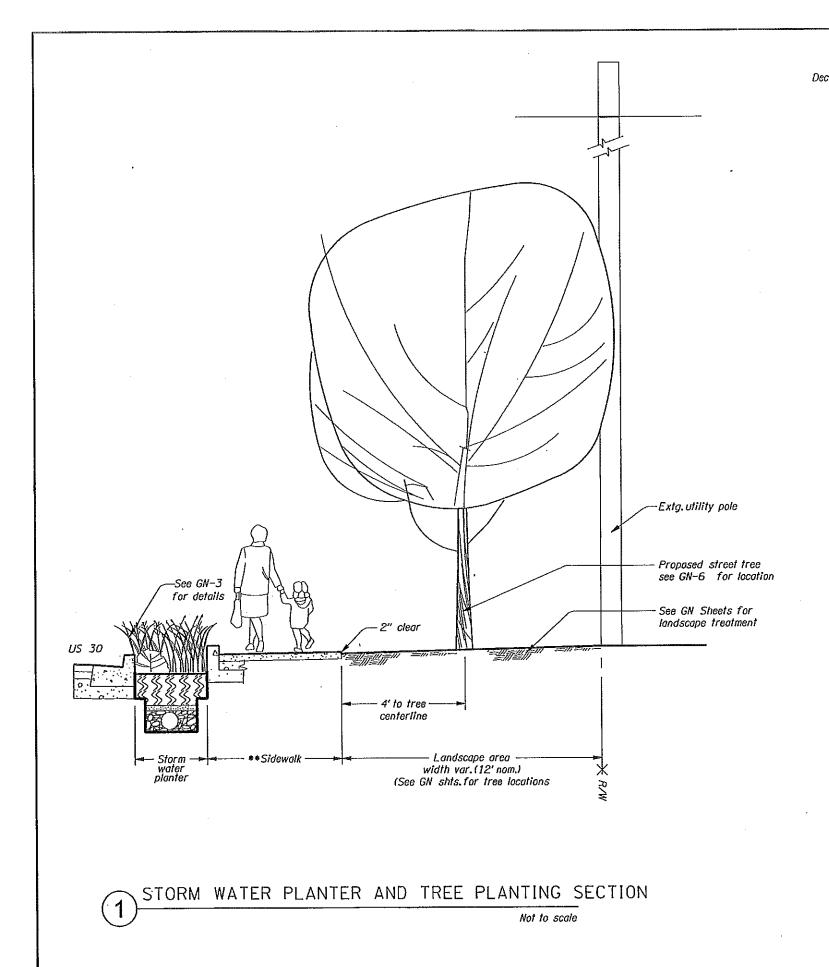
Contract Plans C14471 45V-038 "125TH" LINE 50 50 Profile Grade @ & --10' V.C. -2.00% -0.13% 40 40 Extg. Ground Line @ E -10' V.C. 30 30 "AS CONSTRUCTED" OCT 28-2013 MARK BEESON, PROJECT MANAGER **OREGON DEPARTMENT OF TRANSPORTATION** SERED PROVESSON

56,138 PE

10. March

10. M **REGION 1 ROADWAY ENGINEERING SECTION** US 30 BYPASS: NE 122ND - M.P. 13.54 SEC. NORTHEAST PORTLAND HIGHWAY . MULTNOMAH COUNTY Design Team Leader - John P. Wolf Designed By - Jason Grassman, P.E. Drafted By - Marco Singer SHEET NO. PROFILE RENEWAL DATE: 6-30-2013 10+00 11+00 12+00

Contract Plans



Deciduous 1/2" calip or greater ~ 2.5 x dia. rootball or container

TREE STAKING NOTES:

1) Tree ties to be either:

Rigid guy system as manufactured by Alpine Nursery, Boring Oregon. Galvanized wire to be approx. 1/8" thickness and 24" length. There is a plastic sleeve over portion that goes around tree. The wire tie is to go thru the wood stake and be securely fastened.

Plastic chain type, approx. 1" width by $\frac{1}{8}$ " depth where two stakes are required. Cross ties between stakes and wrap tie around tree. Fasten securely to stake.

Two wooden stakes set in undisturbed soil on 45V-038 north and south side of tree. See Tree Staking Notes below.

Tree tie with tension guying to allow 4" sway any direction. See Tree Staking Notes below.

Top of rootball to be 1" to 2" above finish grade. Do not cover top of rootball with backfill soil.

Pull compost 2" away from trunk. Do not cover root crown

4" high soil rain basin.

Coarse compost, 3" depth x 36" dia. circle

Finish grade

Scarify sides of planting hole if glazed

Excavate planting pit as shown; saturate pit, backfill with 2 parts site select top soil and 1 part fine compost, 2 onces of granular hydrogell polymer per manufacture specifications and mix in specified soil amendments. Firm soil around rootball and water settle. Do not leave air pockets.

Carefully remove from container. If B&B remove wire basket prior to placing plant in hole, peel back 2/3 of wrap once plant is in hole.

Place rootball on mound of undisturbed or compacted soil to prevent settlement; scarify root outer rootball and spread roots away from ball. No circling or unreasonably bent roots.

2) Furnish tree stakes on all tree plantings. Stakes to be construction grade, rough sawn or finished Douglas Fir or Pine. Stain with approved green penetrating oil. Stake Size is to be 11/2"x11/2" by following lengths:

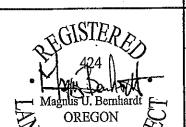
Trees 36" and shorter — Use one — 6' (approx.) stake
Trees taller than 36" — Use one — 8' (approx.) stake Drive stakes vertically and at least 24" into undisturbed soil. Do not drive stakes thru root ball. Locate stakes to best resist prevailing winds.

STREET TREE PLANTING AND STAKING

Not to scale

"AS CONSTRUCTED" OCT 28-2013 mouth Bon MARK BEESON, PROJECT MANAGER

hwye66e



REGION 1 ROADWAY ENGINEERING SECTION

OREGON DEPARTMENT OF TRANSPORTATION

US 30 BYPASS: NE 122ND - M.P. 13.54 SEC.

NORTHEAST PORTLAND HIGHWAY MULTNOMAH COUNTY

Design Team Leader - Magnus Bernhardt Designed By - Magnus Bernhardt Drafted By - Marco Singer

DETAILS

GN-2

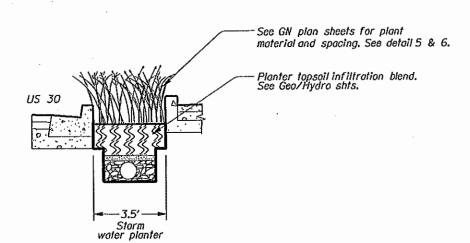
Not to scale

45V-038



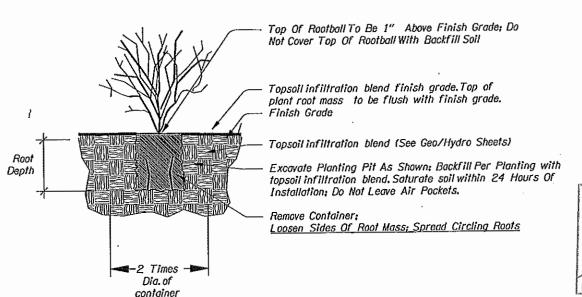
3 STORM WATER PLANT SPACING

Not to scale



4 STORM WATER PLANTER PLANTING DETAIL

| Not to scale



"AS CONSTRUCTED"

OCT 28-2013

MUNIC NOTES MANAGER



Magnus U. Bernhardt SoreGON 04/14/99

OREGON DEPARTMENT OF TRANSPORTATION

REGION 1 ROADWAY ENGINEERING SECTION

US 30 BYPASS: NE 122ND - M.P. 13.54 SEC.

NORTHEAST PORTLAND HIGHWAY

MULTNOMAH COUNTY

Design Team Leader - Magnus Bernhordt Designed By - Magnus Bernhordt Drofted By - Marco Singer

DETAILS

GN-