



PUBLIC WORKS DEPT. – ENGINEERING DIVISION

REQUEST FOR INFORMAL BIDS **FOR** **CLEANING OF EXISTING STORM SEWER** **ON PROGRESS WAY AND INDUSTRIAL AVE**

BID No.2015-06
FILE # 2015-003-47

BACKGROUND: City of Woodburn, OR is seeking bids to remove built up debris with-in the existing storm sewer system which leads to a ditch outfall. An inspection in early February 2015 found an estimated 83 CY of debris in the pipe system. The debris shall be flushed out of the pipes and disposed of in a permitted disposal site in accordance with all applicable laws and regulations.

All work **SHALL** be completed by June 30, 2015.

SCOPE: Contractor(s) wishing to offer a bid for this project shall:

- Make a site visit to the Project site.
- Make a written cost offer (attached Form of Proposal) based on unit price for work outlined in the bid schedule and further clarified in the Special Provisions.
- All work shall be performed in accordance with Woodburn Engineering Division standard details and specifications.
- Provide \$1,000,000.00 of liability insurance, with City of Woodburn, OR employees also covered for the contract. Liability Insurance is incidental to the project for which no direct compensation will be made.

INSTRUCTIONS TO BIDDERS:

1. Base Bid offers off of the attached plans and drawings.
2. The Engineer's Estimate for this project is under \$50,000 and therefore would not be subject to BOLI PWR Laws.
3. The Notice to Proceed is anticipated for April 28, 2014.

ALL BIDS MUST BE RECEIVED BY 5:00 PM THURSDAY, March 19, 2015

Bids shall be submitted to:

Duane K. Barrick
Phone 503.980.2408
190 Garfield ST. |Woodburn, OR 97071
e-mail: duane.barrick@ci.wooburn.or.us

FORM OF PROPOSAL

<u>#</u>	<u>Description</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Total</u>
1	Mobilization	1	LS		
2	Temporary work zone traffic control	1	LS		
3	Temporary Sediment Trap	1	LS		
4	Erosion & Sediment Control	1	LS		
5	Debris Recovery & Removal	1	LS		
<u>Total Offer:</u>					

NOTES:

- A. All bid items above shall be complete for materials, labor and equipment.
- B. Item #5 is based on February 2015 Survey & Calculations at 83 CY. If actual quantity is more than 125% of moist but unsaturated material the Contractor may apply for additional compensation.

Company name, address and phone number:

CCB#

Signed By: _____

Date: _____

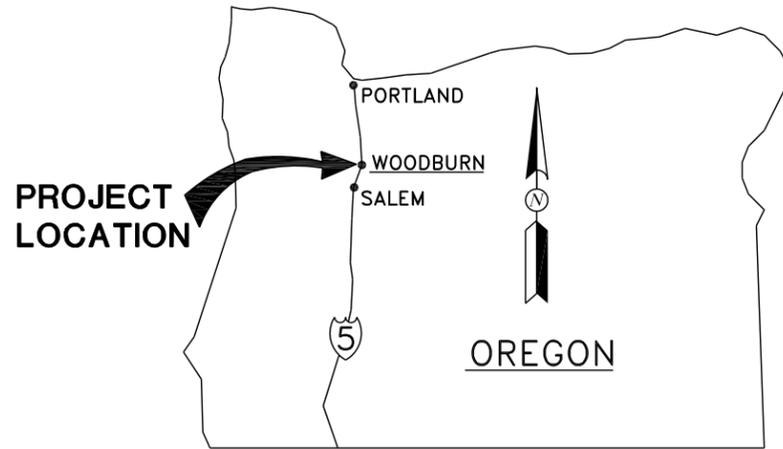
Title: _____

INSTRUCTIONS TO BIDDERS

- 1. This is an informal bid process under Oregon Law: Bid offers will not be publicly opened and read but will be evaluated by Agency Staff. A bid tab will be posted on the website and available for public view.**
- 2. A decision to award will be based upon lowest price/best value by the Public Works Director.**
- 3. All offers must be received by the deadline. Offers may be e-mailed, USPS regular delivery, special delivery or hand delivered. No bid past the deadline will be accepted.**
- 4. Agency reserves the right to reject all bids or rebid the project and/or delete the project work.**
- 5. Contract, if awarded, will be by Purchase Order. Awarded Contractor shall provide a Federal W9 Tax Form and certificate of liability naming the City of Woodburn, it's elected officials, employees, officers and volunteers as also insured.**
- 6. Requests for information (RFI) shall be submitted directly to the Agency Project Manager: Duane K. Barrick. Answer(s) will be posted on the website for the benefit of all Bidders. It is the responsibility of the Bidder to ensure they have checked the website for any updated information.**

PROGRESS WAY & INDUSTRIAL AVE STORM SEWER PIPELINE MAINTENANCE

PROJECT No. 2015-003-47
 BID No. 2015-06

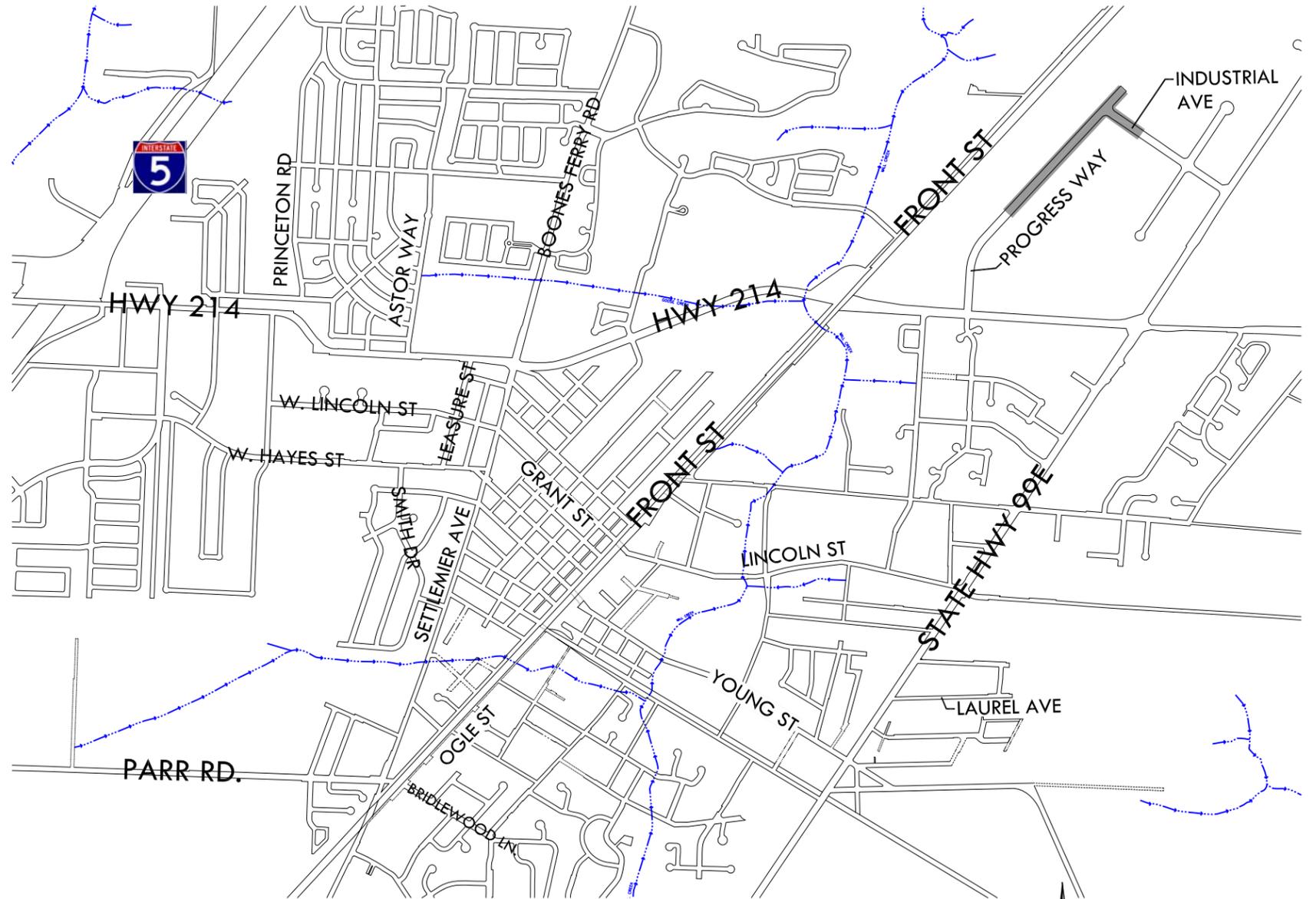


AREA MAP NTS

DATUM IS BASED ON CITY SURVEYING:

INDEX OF DRAWINGS

SHEET NO.	TITLE
1	TITLE SHEET
2	CONSTRUCTION NOTES
3	LEGENDS AND SYMBOLS
4	PLAN AND PROFILE
5	ODOT DETAIL SHEET DET6004
6	ODOT DETAIL RD1010
7	ODOT DETAIL RD1015



VICINITY MAP NTS

PROJECT
LOCATION

BID SET

THIS BAR IS ONE-INCH ON ORIGINAL DRAWING. 	DESIGNED: <u>DB</u> DRAWN: <u>GK</u> REVIEWED: <u>DB</u> APPROVED: <u>EL</u>		REVISIONS: <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>							PROGRESS WAY & INDUSTRIAL AVE STORM SEWER PIPELINE MAINTENANCE PROJECT TITLE SHEET	PROJECT NO. 2015-003-47
HORIZONTAL DATUM: <u>LOCAL</u> VERTICAL DATUM: <u>LOCAL</u>	DATE FEBRUARY 2015										
SHEET NO. 1											

GENERAL NOTES:

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2015 EDITION OF THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS.
2. A COPY OF THESE APPROVED PLANS AND DETAILS SHALL BE ON-SITE DURING CONSTRUCTION.
3. ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE AGENCY PRIOR TO ANY IMPLEMENTATION IN THE FIELD.
4. THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL ONE CALL LOCATE AT LEAST 48 HOURS IN ADVANCE. THE PUBLIC WORKS DEPARTMENT AND ENGINEERING DIVISION SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS (503-982-5240).
5. THE CONTRACTOR SHALL AT ALL TIMES ABIDE BY APPLICABLE SAFETY RULES OF OR-OSHA AND IN PARTICULAR THOSE PERTAINING TO ADEQUATE SHORING AND TRENCH PROTECTION.
6. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL REQUIRED EROSION CONTROL MEASURES IN ACCORDANCE WITH THE NOTES AND PLANS BELOW.
7. EXISTING UTILITY LOCATIONS ARE APPROXIMATE ONLY, EXACT LOCATIONS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE WORK WITH ALL UTILITY COMPANIES AS REQUIRED TO COMPLETE THE PROJECT.
8. ALL DAMAGE CAUSED BY THE CONTRACTOR SHALL BE RESTORED TO AN "AS GOOD OR BETTER" CONDITION.
9. PROPERTY OWNERS/RESIDENTS SHALL HAVE ACCESS TO THEIR PROPERTIES AT ALL TIMES DURING CONSTRUCTION ACTIVITIES. CONTRACTOR TO MAKE ALLOWANCES FOR ANY LOCAL DELIVERIES AND/OR GARBAGE PICK-UP. PROVIDE WRITTEN NOTICE TO ALL PROPERTY OWNERS AT LEAST 2 WORK DAYS IN ADVANCE OF WORK IN AND OR CROSSING DRIVEWAYS.
10. CONTRACTOR MAY PROCURE WATER FROM A CITY FIRE HYDRANT ONLY AFTER APPROVAL OF THE ENGINEER, INSTALLATION OF BACKFLOW PREVENTOR BY CITY DRINKING WATER SECTION CREWS, AND PAYMENT OF APPROPRIATE FEES TO THE WATER SECTION, IF REQUIRED.
11. ONLY CITY STAFF CAN OPERATE LIVE WATER VALVES AND FIRE HYDRANTS. NOTIFY THE CITY OF WOODBURN PRIOR TO THE NEED FOR THE OPERATION OF LIVE WATER LINES.
12. CONTRACTOR SHALL REMOVE ALL EXISTING SIGNS, MAILBOXES, FENCES, LANDSCAPING, AND ETC. AS REQUIRED TO AVOID DAMAGE DURING CONSTRUCTION AND REPLACE THEM TO EXISTING OR BETTER CONDITION WHEN WORK IS COMPLETED. MAILBOXES SHALL BE TEMPORARILY RELOCATED. MEANS, METHODS AND LOCATIONS AS APPROVED BY THE ENGINEER.
13. THE CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING PROPERTY AND STREET MONUMENTS PRIOR TO CONSTRUCTION. ANY MONUMENTS DISTURBED DURING CONSTRUCTION OF THE PROJECT SHALL BE REPLACED AND RECORDED BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.

EROSION AND SEDIMENT CONTROL (ESC) NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES, IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
2. THE IMPLEMENTATION OF THESE ESC PLANS AND CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED BY THE LOCAL JURISDICTION, AND VEGETATION/LANDSCAPING IS ESTABLISHED.
3. THE ESC FACILITIES DESCRIBED ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
4. THE ESC FACILITIES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DOES NOT LEAVE THE SITE.
5. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
6. AT NO TIME SHALL SEDIMENT BE ALLOWED TO ACCUMULATE MORE THEN 1/3 THE BARRIER HEIGHT. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATIONS SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
7. STORM DRAIN INLETS, BASINS, AND AREA DRAINS SHALL BE PROTECTED UNTIL PAVEMENT SURFACES ARE COMPLETED AND/OR VEGETATION IS RE-ESTABLISHED.
8. PAVEMENT SURFACES AND VEGETATION ARE TO BE PLACED AS RAPIDLY AS POSSIBLE.
9. SEEDING SHALL BE PERFORMED NO LATER THAN SEPTEMBER 1 FOR EACH PHASE OF CONSTRUCTION.
10. IF THERE ARE EXPOSED SOILS OR SOILS NOT FULLY ESTABLISHED FROM OCTOBER 1ST THROUGH APRIL 30TH, THE WET WEATHER EROSION PREVENTION MEASURES WILL BE IN EFFECT.
11. THE DEVELOPER SHALL REMOVE ESC MEASURES WHEN VEGETATION IS FULLY ESTABLISHED.
12. ANY SOIL OR DEBRIS TRANSPORTED ONTO ROADWAYS AND SIDEWALKS SHALL BE REMOVED. DEPOSITS SHALL BE COMPLETELY REMOVED BY SHOVELING AND/OR SWEEPING. WASHING SHALL NOT BE UTILIZED UNLESS SPECIFICALLY APPROVED IN WRITING BY THE CITY OF WOODBURN.
13. IF BMPs (BEST MANAGEMENT PRACTICES) SHOWN ARE UTILIZED BUT ARE INSUFFICIENT TO PREVENT SEDIMENT FROM REACHING WATER BODIES, ADJACENT PROPERTIES, OR PUBLIC RIGHTS-OF-WAY; ADDITIONAL BMPs SHALL BE IMPLEMENTED IMMEDIATELY TO PREVENT FURTHER ENCROACHMENT OF SEDIMENT.
14. STABILIZED AREAS SHALL BE PROVIDED FOR EMPLOYEE PARKING AND STORAGE OF CONSTRUCTION MATERIALS. ERODABLE STOCKPILES OF EARTHEN MATERIALS, SUCH AS TOPSOIL, SILTY AND CLAYEY SOILS; AND LANDSCAPE MATERIALS SHALL BE COVERED WHEN NOT BEING INCORPORATED IN THE WORK. EROSION CONTROL BMPs SHALL BE UTILIZED AS NECESSARY TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING OR SEDIMENT BEING TRANSPORTED FROM THESE AREAS FROM VEHICLE ACTIVITY.
15. ALL TRUCKS LEAVING THE SITE WITH EXCAVATION SPOILS MUST BE INSPECTED FOR WATER SEEPAGE. IF SATURATED SOILS ARE A PROBLEM, WATERTIGHT TRUCKS MUST BE USED OR LOADS SHALL BE DRAINED, ON-SITE, SO THAT WATER SEEPING FROM THE SOIL CANNOT DRAIN FROM THE VEHICLE.
16. CONSTRUCTION SHALL NOT BE CONSIDERED COMPLETE AND ACCEPTABLE UNTIL ALL DISTURBED SOIL SURFACES HAVE BEEN PROTECTED FROM EROSION AND WITH PERMANENT LANDSCAPING, COVERING WITH IMPERVIOUS SURFACES, RESTORED TO ORIGINAL UNDISTURBED CONDITION OR PERMANENTLY STABILIZED.
17. VEGETATED STABILIZATION AND LANDSCAPING SHALL BE FERTILIZED, WATERED AND MAINTAINED TO INSURE THAT GROWTH OF VEGETATION IS ESTABLISHED AND SUSTAINED.
18. PLACE GRASS SEED OVER BARREN SOIL; 80/20 BLEND OF DWARF PERENNIAL RYE AND CREEPING RED FESCUE, MIN. 100#/ACRE. APPLY 20-10-10 FERTILIZER IN ACCORDANCE WITH SUPPLIER'S RECOMMENDATIONS.

WET WEATHER MEASURES

1. THE MEASURES FOR WET WEATHER CONDITIONS ARE ONE OF THE FOLLOWING OR COMBINATION TO PREVENT SOIL EROSION: ESTABLISHED GRASS, 2" MIN. STRAW MULCH COVER, EROSION CONTROL BLANKETS WITH ANCHORS, 6-MIL PLASTIC SHEET COVER OR SEDIMENT TRAP OR POND.
2. AS THE WET WEATHER APPROACHES MORE EROSION CONTROL MEASURES (AS REQUIRED BY CONSTRUCTION INSPECTOR) MAY BE NECESSARY TO REDUCE EROSION.



CALL BEFORE YOU DIG!
1-800-332-2344

ATTENTION:

OREGON LAW REQUIRES CONTRACTOR 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 NOTIFICATION CENTER IS 503.232.1987)

BID SET

PROGRESS WAY & INDUSTRIAL AVE
STORM SEWER PIPELINE MAINTENANCE PROJECT

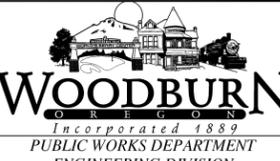
**LEGENDS AND
CONSTRUCTION NOTES**

PROJECT NO.
2015-003-47

DATE
FEBRUARY 2015

SHEET NO.

2

	<p>THIS BAR IS ONE-INCH ON ORIGINAL DRAWING.</p> 	<p>DESIGNED: <u>DB</u> DRAWN: <u>GK</u> REVIEWED: <u>DB</u> APPROVED: <u>EL</u> HORIZONTAL DATUM: <u>LOCAL</u> VERTICAL DATUM: <u>LOCAL</u></p>	 <p>WOODBURN OREGON Incorporated 1889 PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION</p>	<p>REVISIONS:</p> <table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>										

SYMBOLS

DESCRIPTION	SYMBOL
GAS METER	
SANITARY MANHOLE	
STORM MANHOLE	
EXST. MANHOLE	
CATCHBASIN	
WATER METER	
SERVICE UTILITY LINE CAPPED OFF	
STREET/ARE LIGHT	
POWER POLE W/ LIGHT	
POWER POLE	
TREE	
SPOT ELEVATION	X 183.5
CITY CONTROL MONUMENT	
LOCAL CONTROL POINT	
SIGN POST	
INLINE WATER VALVE	
FIRE HYDRANT	
CORE LOCATION AND EXST. PVMT. THICKNESS	
PLAN SHEET BUBBLE CALLOUT	

ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ACP	ASPHALTIC CONCRETE PAVEMENT
ACPR	ASPHALT CONCRETE PAVEMENT REPAIR
ADA	AMERICANS WITH DISABILITIES ACT
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
AWWA	AMERICAN WATER WORKS ASSOCIATION
CB	CATCH BASIN
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CI	CAST IRON
CNTR	CENTER
C	CENTERLINE
CONC	CONCRETE
DET	DETAIL
DIA	DIAMETER
DI	DUCTILE IRON
DIM	DIMENSION
DWG	DRAWING
EA	EACH
ELEC	ELECTRICAL
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EXST	EXISTING
FH	FIRE HYDRANT
FL	FLOW LINE
FM	FORCE MAIN
FPCS	FLEXIBLE PAVEMENT CRACK SEALING
GALV	GALVANIZED
GND	GROUND
HMAC	HOT MIX ASPHALT CONCRETE
HORZ	HORIZONTAL
IE	INVERT ELEVATION
MAX	MAXIMUM
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MHMAC	MINOR HOT MIXED ASPHALT CONCRETE PAVEMENT
MISC	MISCELLANEOUS
NO.	NUMBER
NTS	NOT TO SCALE
O.C.	ON CENTER
ODOT	OREGON DEPARTMENT OF TRANSPORTATION
PL	PROPERTY LINE
PSI	POUNDS PER SQUARE INCH
PVMT	PAVEMENT
RAD	RADIUS
REQD	REQUIRED
R/W	RIGHT-OF-WAY
S	SLOPE
SCHED	SCHEDULE
SD	STORM SEWER
SH	SHEET
SPECS	SPECIFICATIONS
SS	SANITARY SEWER
STA	STATION
STD	STANDARD
TCP	TRAFFIC CONTROL PLAN
TYP	TYPICAL
VERT	VERTICAL
WTR	WATER

HATCHING LEGEND

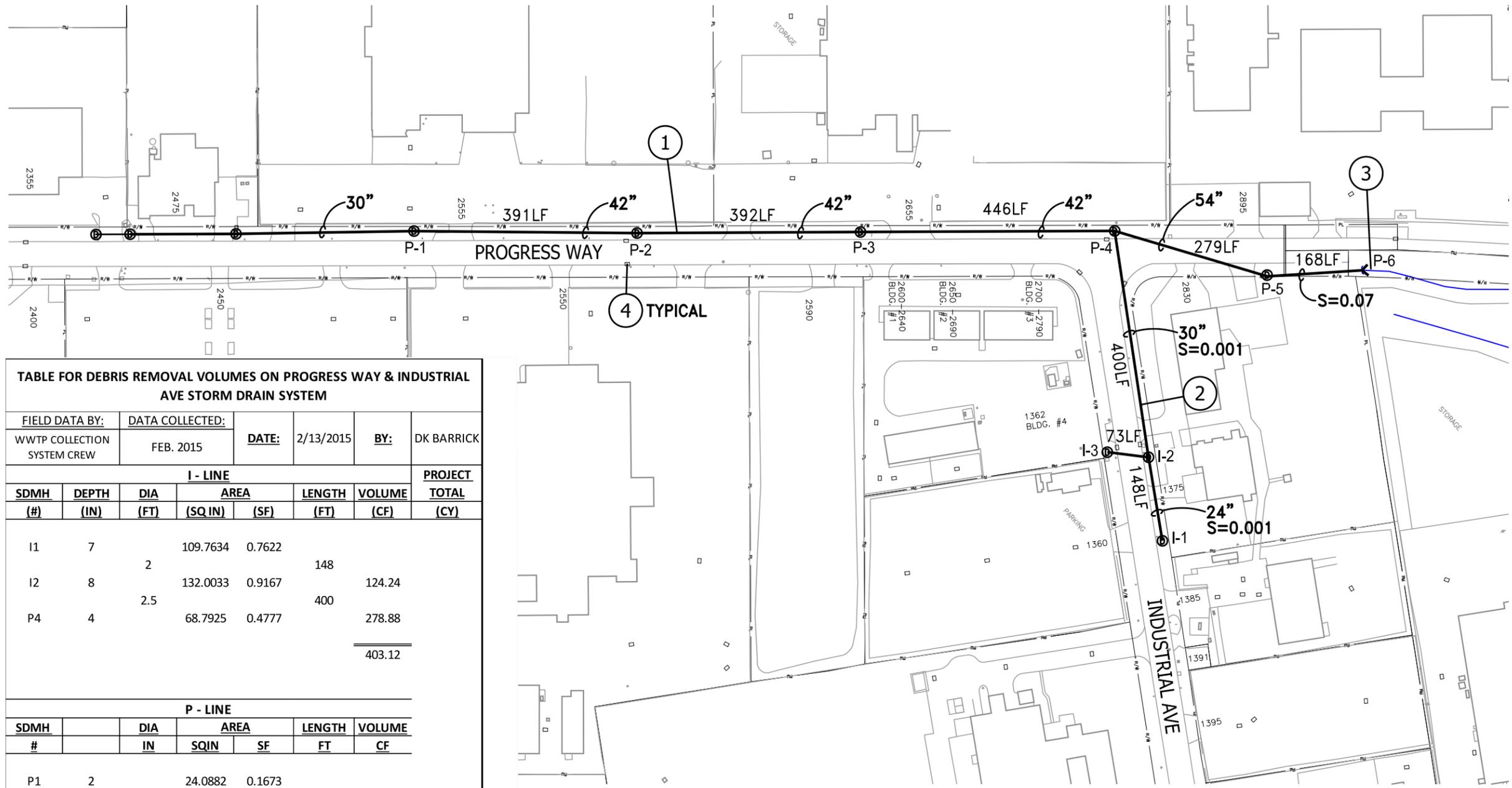
SOIL/GROUND	
CONCRETE	
CRUSHED AGGREGATE/ GRAVEL	
GRASS SEED/ VEGETATION	
BITUMINOUS HOT-MIX (HMA)	

LINETYPE LEGEND

FOOT CONTOUR ELEVATION	
ELECTRICAL LINE	
FENCE LINE	
FORCE MAIN PIPE	
GAS LINE	
IRRIGATION LINE	
SANITARY SEWER PIPE	
STORM SEWER PIPE	
TELEPHONE LINE	
WATER LINE	
PROPERTY LINE	
RIGHT-OF-WAY LINE	
RAILROAD TRACKS	
STREAMS, CREEKS, WATERWAYS	

NOTE:
ALL SYMBOLS AND LEGENDS SHOWN WITH COLOR SCREENED BACK ON DRAWINGS ARE CONSIDERED EXISTING FEATURES.

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- PLAN NOTES:**
1. REMOVE ALL SOILS AND DEBRIS FROM EXST. STORM DRAIN SYSTEM FROM MANHOLE P-1 TO OUTFALL P-6.
 2. REMOVE ALL SOILS AND DEBRIS FROM EXST. STORM DRAIN SYSTEM FROM MANHOLE I-1 TO OUTFALL P-6.
 3. CONSTRUCT TEMPORARY SEDIMENT TRAP PER ODOT DETAIL DET6004.
 4. PROVIDE INLET PROTECTION PER ODOT DETAILS RD1010 AND RD1015. TYPICAL.

TABLE FOR DEBRIS REMOVAL VOLUMES ON PROGRESS WAY & INDUSTRIAL AVE STORM DRAIN SYSTEM

FIELD DATA BY:	DATA COLLECTED:	DATE:	2/13/2015	BY:	DK BARRICK
WWTP COLLECTION SYSTEM CREW	FEB. 2015				

I - LINE							PROJECT TOTAL
SDMH (#)	DEPTH (IN)	DIA (FT)	AREA (SQ IN)	AREA (SF)	LENGTH (FT)	VOLUME (CF)	(CY)
I1	7		109.7634	0.7622			
I2	8	2	132.0033	0.9167	148	124.24	
P4	4	2.5	68.7925	0.4777	400	278.88	
						403.12	

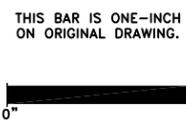
P - LINE							
SDMH #	DEPTH (IN)	DIA (IN)	AREA (SQ IN)	AREA (SF)	LENGTH (FT)	VOLUME (CF)	
P1	2	2.5	24.0882	0.1673	391	65.41	
P2	2	3.5	24.0882	0.1673	838	270.26	
P4	4	4.5	68.7925	0.4777	279	169.77	
P5	4	4.5	106.4494	0.7392	168	1335.96	
P6	49	4.5	2183.772	15.1651			
						1841.39	

83.13

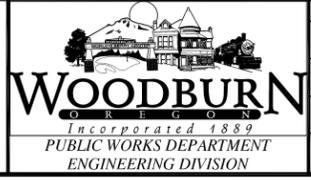


PLAN
SCALE: 1:200

BID SET



DESIGNED: DB
 DRAWN: GK
 REVIEWED: DB
 APPROVED: EL
 HORIZONTAL DATUM: LOCAL
 VERTICAL DATUM: LOCAL



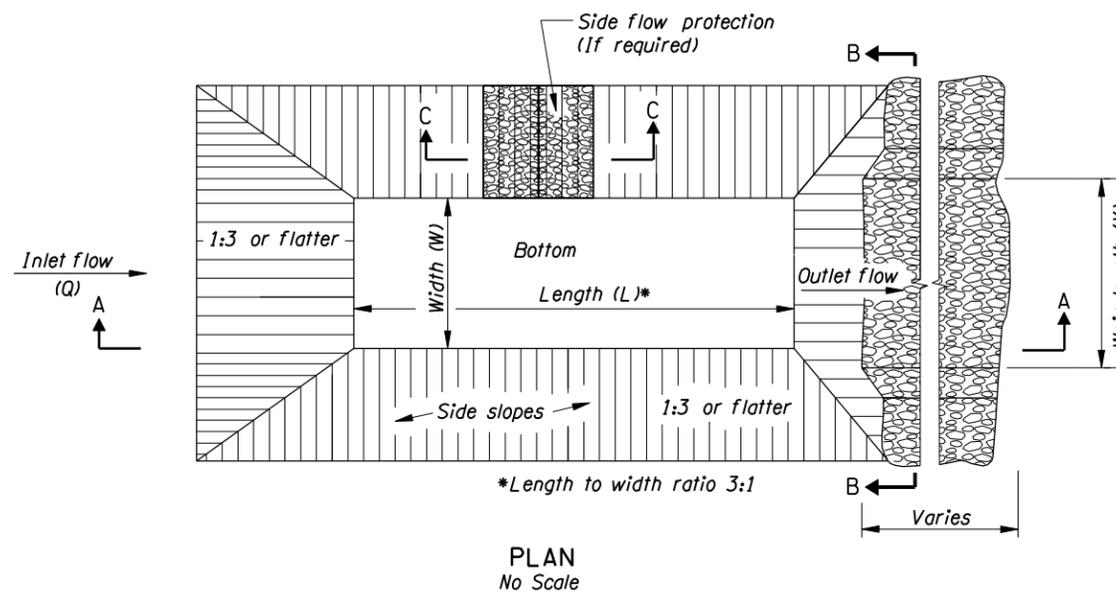
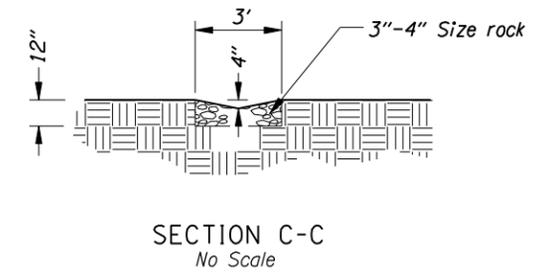
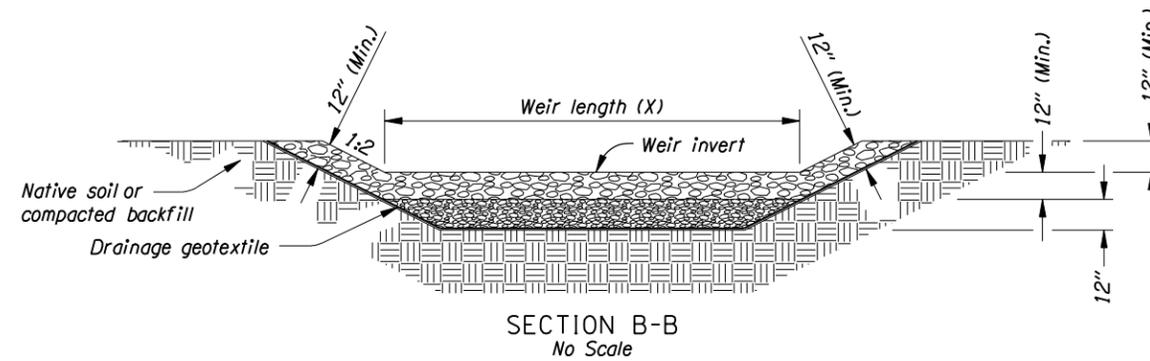
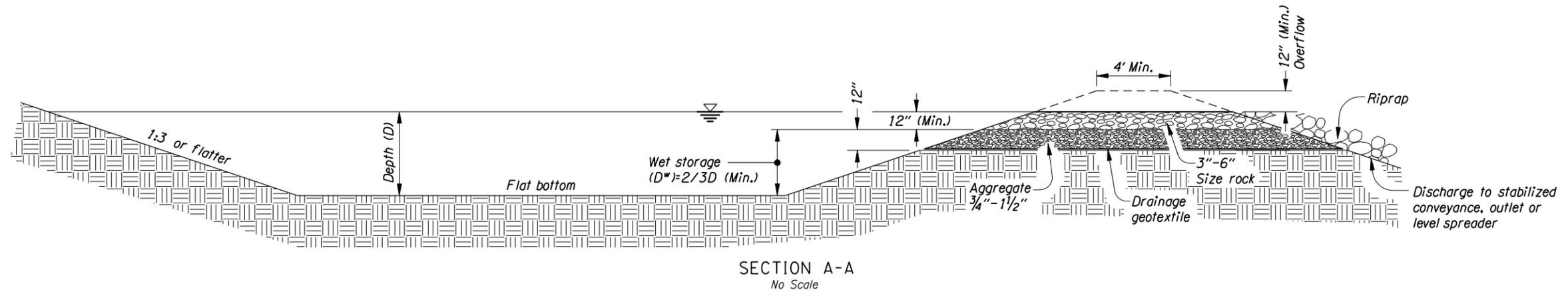
REVISIONS:		

PROGRESS WAY & INDUSTRIAL AVE
STORM SEWER PIPELINE MAINTENANCE PROJECT

PLAN SHEET

PROJECT NO. 2015-003-47
DATE FEBRUARY 2015
SHEET NO. 4

TEMPORARY SEDIMENT TRAP



Notes:

Trap may be formed by berm or by partial or complete excavation.

Remove accumulated sediment when collected material depth = $D/3$.

Replace aggregate and rock when filtering capacity is reduced by $1/2$.

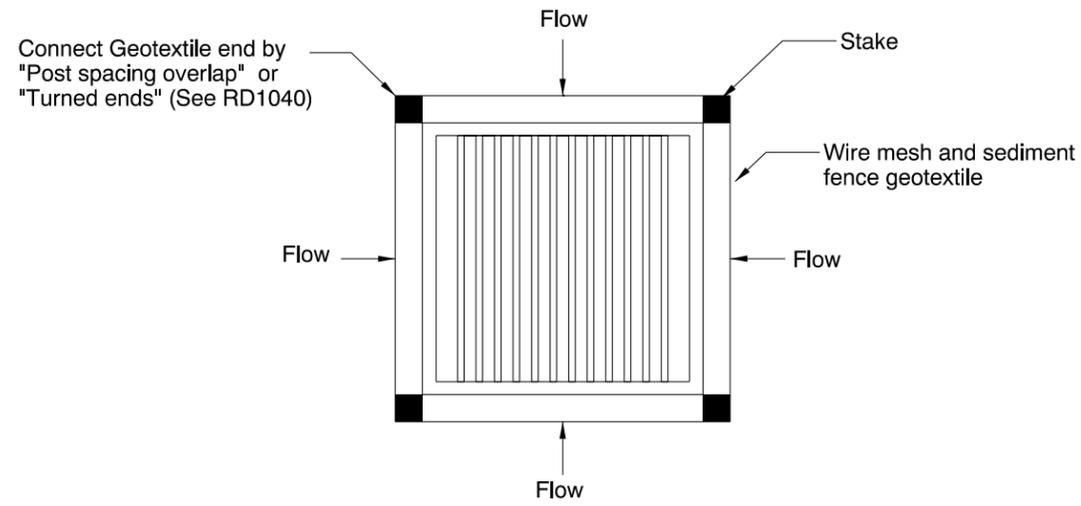
The selection and use of this detail, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

OREGON DEPARTMENT OF TRANSPORTATION
TECHNICAL SERVICES
DETAILS

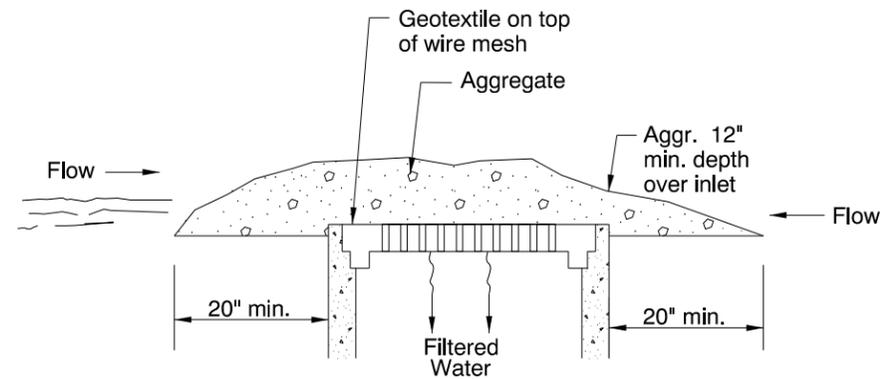
SEDIMENT TRAP
TEMPORARY

DETAIL NO.

DET6004

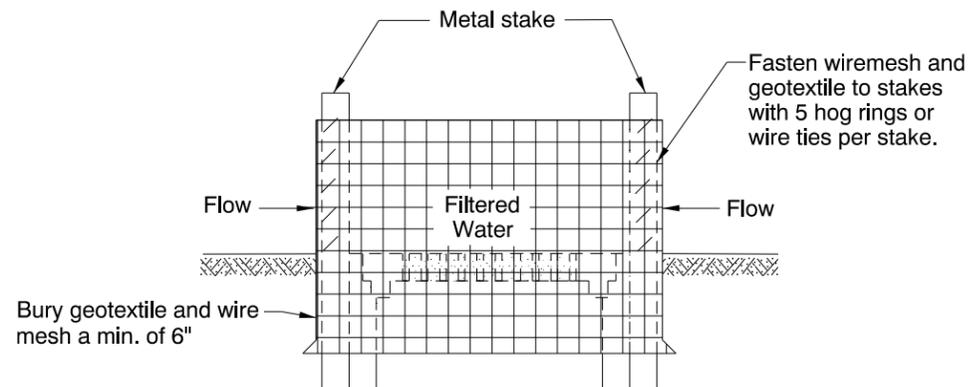


PLAN



GEOTEXTILE/WIREMESH/AGGREGATE

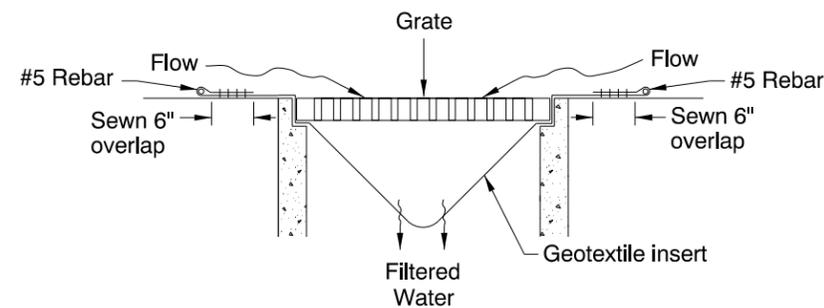
TYPE 2



ELEVATION

SEDIMENT FENCE

TYPE 1



PREFABRICATED FILTER INSERT

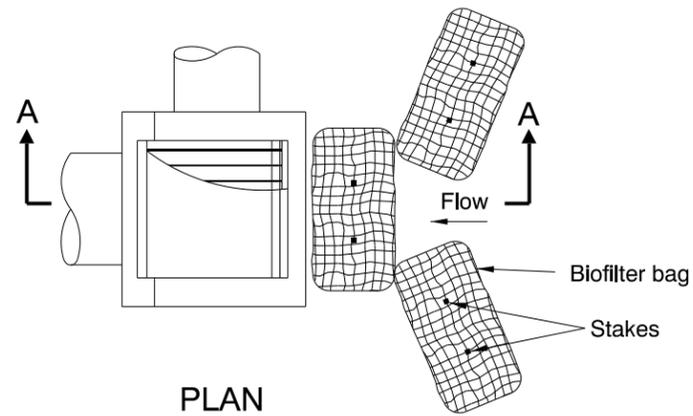
TYPE 3

- Note:
- Type 1 Sediment Fence
 - Type 2 Geotextile/wire mesh/aggregate
 - Type 3 Prefabricated filter insert
 - Type 4 Biofilter bags
 - Type 5 Masonry/aggregate
 - Type 6 Sod

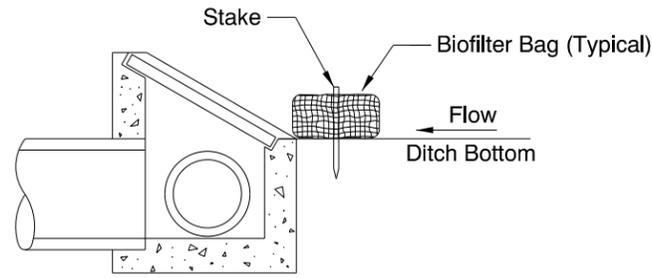
INLET PROTECTION						
Site Conditions Where Types Are Appropriate	TYPE					
	1	2	3	4	5	6
Area Drain, Soil	Y	Y	Y	Y	Y	Y
Area Drain, Pavement	N	Y	Y	Y	Y	N
Ditch Inlet, Soil	Y	N	Y	Y	N	Y
Ditch Inlet, Pavement	N	N	Y	Y	N	N
Grate Inlet Along Curb, Soil	N	Y	Y	Y	Y	Y
Grate Inlet Along Curb, Pavement	N	Y	Y	Y	Y	N
Curb Opening Inlet, Soil	N	N	N	Y	Y	Y
Curb Opening Inlet, Pavement	N	N	N	Y	Y	N

For Inlet Protection Types 4 and 5 see RD1015 and RD1020.

CALC. BOOK NO. N/A	BASELINE REPORT DATE 01-JAN-2013
<p>The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.</p>	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
	OREGON STANDARD DRAWINGS
	INLET PROTECTION (TYPE 1, 2 & 3)
	2015
DATE	REVISION DESCRIPTION



PLAN

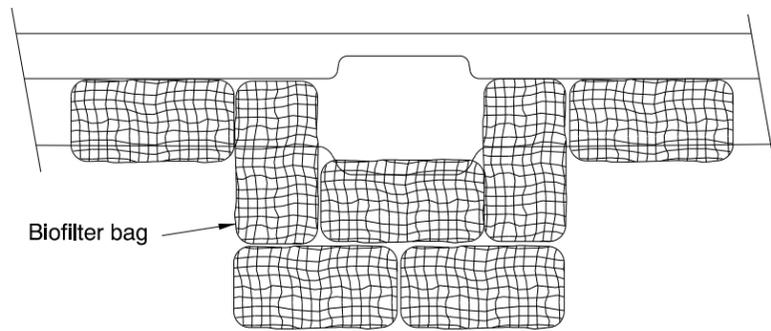


SECTION A-A

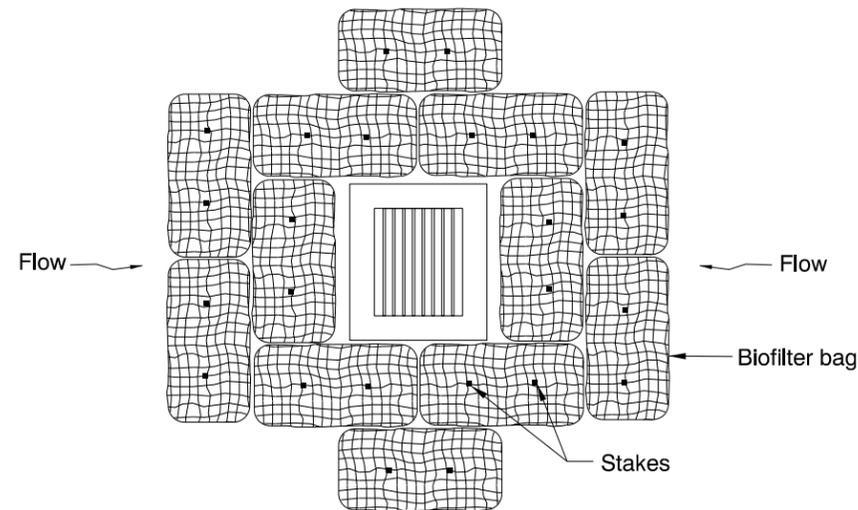
DITCH INLET

Note:

1. Use 2 stakes per bag. Stakes may be omitted if bags are placed on pavement surface.
2. Overlap all bag joints 6".



PLAN
CATCH BASIN



AREA DRAIN

CALC. BOOK NO. <u> N/A </u>	BASELINE REPORT DATE <u> 01-JAN-2013 </u>
<p><i>The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.</i></p>	NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications
	<p>OREGON STANDARD DRAWINGS</p> <p>INLET PROTECTION (TYPE 4) BIOFILTER BAGS</p> <p>2015</p>
	DATE _____ REVISION DESCRIPTION _____