

DIAMETER	MIN. SPACE BETWEEN PIPES
Up to 48"	24"
48" to 72"	One half (?) dia. of pipe

TABLE A

"A" (in)	"B" (in)	"C" (in)	"D" (in)
4	10	4	8
6	10	4	8
8	10	6	10
10	10	6	10
12	12	6	10
15	12	6	10
18	16	6	12
21	16	6	12
24	18	6	12
30	18	6	12
36	24	6	14
42	24	6	14
48	24	6	14
54	24	6	14
60	24	6	14
66	24	6	14
72	24	6	14

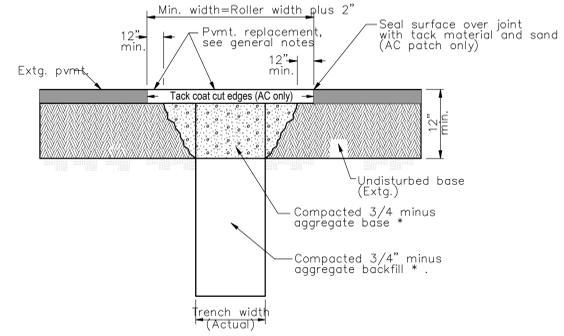
GENERAL NOTES FOR ALL DETAILS:

- Surfacing of paved areas shall comply with street cut Std. Drg. RD302.
- For pipe installation in embankment areas where the trench method will not be used and the pipe is  $\geq 36"$  diameter, increase dimension "B" to nominal pipe diameter.
- Pipes over 72" diameter are structures, and are not applicable to this drawing.

CALC. BOOK NO.	N/A	BASILINE REPORT DATE	18-DEC-2009
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications			
OREGON STANDARD DRAWINGS			
TRENCH BACKFILL, BEDDING, PIPE ZONE AND MULTIPLE INSTALLATIONS			
2008			
DATE	REVISION	DESCRIPTION	
10-2009	ADDED	AND REVISED NOTES	
10-2009	ADDED	AND REVISED NOTES	

1 TYPICAL UTILITY TRENCH

Effective Date: June 1, 2013 - November 30, 2013 RD300



\* - COMPACTION NOTE: COMPACT EACH LAYER (SUBGRADE, BASE & SUBBASE) TO NOT LESS THAN 95 PERCENT OF THE MAXIMUM DENSITY DETERMINED IN ACCORDANCE WITH THE FOLLOWING TEST METHOD AASHTO T99 METHOD A. LANDSCAPE AREAS TO NOT LESS THAN 90 PERCENT OF THE MAXIMUM DENSITY DETERMINED IN ACCORDANCE WITH THE FOLLOWING TEST METHOD AASHTO T99 METHOD A.

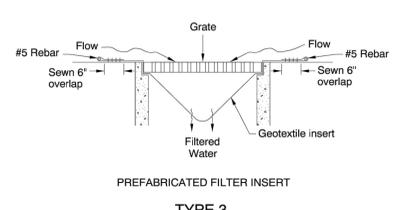
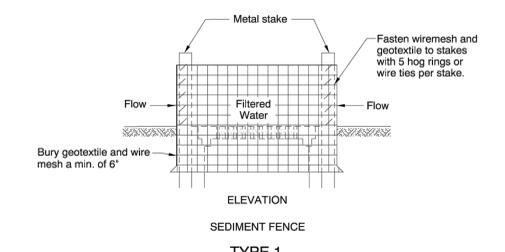
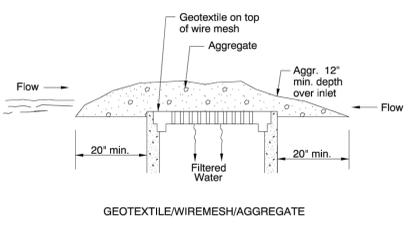
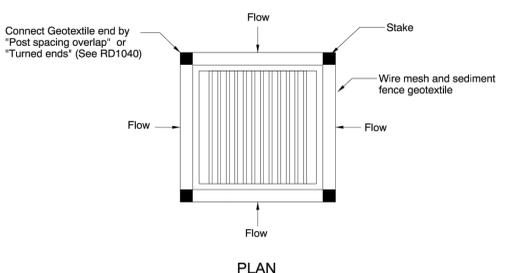
GENERAL NOTES FOR ALL DETAILS:

- All existing AC or PCC pavement shall be sawcut prior to repaving.
- Concrete pavement shall be replaced with concrete to a minimum thickness of 6" or to the thickness of removed pavement, whichever is greater.
- Place AC mix minimum thkn. of 4" or the thkn. of the removed pavement, whichever is greater. Compact as specified.

CALC. BOOK NO.	N/A	BASILINE REPORT DATE	12-JUN-2008
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications			
OREGON STANDARD DRAWINGS			
STREET CUT			
2008			
DATE	REVISION	DESCRIPTION	

2 TYPICAL TRENCH SAW-CUT & ASPHALT PATCH

Effective Date: June 1, 2013 - November 30, 2013 RD302



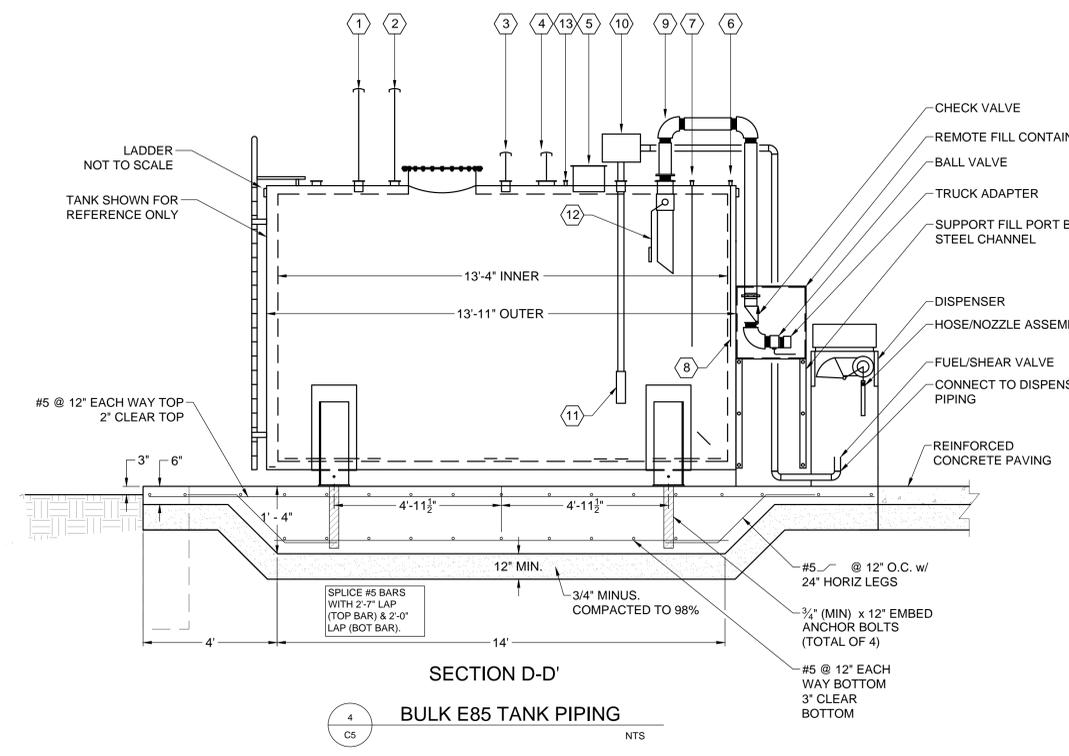
Site Conditions Where Types Are Appropriate	TYPE					
	1	2	3	4	5	6
Area Drain, Soil	Y	Y	Y	Y	Y	Y
Area Drain, Pavement	N	Y	Y	Y	Y	N
Ditch Inlet, Soil	Y	N	Y	Y	N	Y
Ditch Inlet, Pavement	N	N	Y	Y	N	N
Grate Inlet Along Curb, Soil	N	Y	Y	Y	Y	Y
Grate Inlet Along Curb, Pavement	N	Y	Y	Y	Y	N
Curb Opening Inlet, Soil	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.		BASILINE REPORT DATE	
NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications			
OREGON STANDARD DRAWINGS			
INLET PROTECTION (TYPE 1, 2 & 3)			
2008			
DATE	REVISION	DESCRIPTION	

3 TYPICAL INLET PROTECTION

Effective Date: June 1, 2013 - November 30, 2013 RD1010



- SHEET WORK NOTES
- PRIMARY TANK NORMAL VENT
  - SECONDARY CONTAINMENT NORMAL VENT
  - PRIMARY TANK EMERGENCY VENT
  - SECONDARY CONTAINMENT EMERGENCY VENT
  - INSPECTION MANHOLE
  - INTERSTITIAL SPACE MONITORING THREADED OPENING
  - TANK LIQUID LEVEL SENSOR CONNECT TO TANK MONITOR SYSTEM
  - INTERSTITIAL SPACE SENSOR CONNECT TO VEEDER-ROOT SYSTEM
  - TANK FILL CONNECTION
  - DISPENSER PUMP CONNECTION SEE FUEL DISPENSER DETAIL 'A' GP-EB-2
  - SUBMERSIBLE TURBINE PUMP
  - OVERFLOW PREVENTION VALVE
  - TANK VACUUM SENSOR CONNECT TO VEEDER-ROOT SYSTEM

4 BULK E85 TANK PIPING

CONSULTANTS:

ARCHITECT/ENGINEERS:



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LIVINGSTON, MONTANA  
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Drawing Title  
CIVIL DETAILS & ABOVE GROUND FUEL SYSTEM DETAIL

Approved Project Director  
APPROVED-BY-NAME  
APPROVED-BY-TITLE/RANK  
STATION-MNGT

Project Title  
ROSEBURG VA E85 FUELING STATION

Location  
ROSEBURG MEDICAL CENTER, ROSEBURG, OREGON

Project Number  
653-327, VA701-13-J-0087 (Rb)

Drawing Number  
C4

Office of Construction and Facilities Management  
Department of Veterans Affairs

Scale: three eighths inch = one foot, one half inch = one foot, one quarter inch = one foot, one eighth inch = one foot, one sixteenth inch = one foot.

Drawings: RD300.dgn 31-DEC-2009, RD302.dgn 12-31-08, RD1010.dgn 12-31-08, RD1010.dgn 10-23-13 02:11:18 PM mtkelj

Revisions: \_\_\_\_\_ Date: \_\_\_\_\_

VA FORM 08-6231