

THRUST BLOCKING

HORIZONTAL BLOCKING

VERTICAL BLOCKING

PIPE SIZE	90° BEND	45° BEND	22 1/2° BEND
4"	2780	3920	2130
6"	5700	8060	4370
8"	9870	13,950	7560
10"	16,130	22,800	12,360
12"	22,970	32,460	17,580

SOIL TYPE	SAFE BEARING LOAD, LB./SQ. FT.
MULCH, PEAT, ETC...	0
CLAY	1000
SAND	2000
SAND & GRAVEL	3000
SAND & GRAVEL CEMENTED WITH CLAY	4000
HARD SHALE	10,000

NOTES:

- THRUST BLOCKING SHALL BE PLACED BETWEEN UNDISTURBED EARTH AND THE FITTING TO BE ANCHORED. THE MINIMUM BEARING AREA AGAINST UNDISTURBED EARTH FOR THRUST BLOCKING SHALL BE CALCULATED BY DIVIDING THE THRUST (TABLE A) BY THE SAFE BEARING LOAD (TABLE B). EXAMPLE: A 6", 45° HORIZONTAL BEND WILL BE BLOCKED AGAINST CLAY. THE REQUIRED BLOCKING AREA AGAINST UNDISTURBED EARTH, A=4370 lb./1000 lb./sq.ft.=4.37 sq. ft.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 psi AT 28 DAYS.
- THRUST BLOCKING SHALL BE PLACED SO THAT THE PIPE AND FITTING JOINTS WILL BE ACCESSIBLE FOR REPAIRS. INSTALL 6 mil POLYETHYLENE SHEETING BETWEEN CONTACT POINTS OF CONCRETE AND FITTINGS.
- THRUST BLOCKING FOR PIPES LARGER THAN 12", PRESSURES GREATER THAN 150 psi OR OTHER SITUATIONS NOT SHOWN HERE ON SHALL BE AS DIRECTED BY THE ENGINEER.

CITY OF ROSEBURG WATER DEPARTMENT DATE: 10/10/1983 STANDARD DWG. NO. 102
 REV: 5-11-1999

TYPICAL DUAL 5/8" x 3/4" METER INSTALLATION ASSEMBLY

ITEM	SIZE	DESCRIPTION	TYPE	QTY
1	AS REQ'D	SERVICE SADDLE	FORD, CC THD.	1
2	1"	CORP STOP	FORD, F1001 (CC x PACK JOINT)	1
3	1"	SERVICE PIPE	200 PSI POLYETHYLENE SIDR7 (PE 3408)	AS REQ'D
4	1"	BRANCH VALVE ASSEMBLY	FORD, KV63-42W (PACK JOINT)	1
5	4"x 4"	WOODEN	48" - POST BURIED 18" DEEP	1
6	NO. 12	TONE WIRE	ELECTRICAL THIN STRANDED COPPER WIRE, COIL 12" IN METER BOX	AS REQ'D

NOTES:
 △ DR APPROVED EQUAL. SEE GENERAL SPECIFICATIONS.
 ▲ TYPE AS APPROVED BY MANUFACTURER FOR WATER MAIN TYPE & SIZE.

CITY OF ROSEBURG WATER DEPARTMENT DATE: 10/7/1983 STANDARD DWG. NO. 109A
 REV: 4/6/2001

TYPICAL 2" COMBINATION AIR RELEASE VALVE ASSEMBLY

ITEM NO.	QTY.	DESCRIPTION
1	1	SERVICE SADDLE PER PLANS & SPECIFICATIONS, FORD FS 202, MAIN SIZE X 2" IPT
2	3	BRASS NIPPLE, 2" IPT X 4"
3	3	BRASS 90° ELL, 2" IPT
4	1	IBBM GATE VALVE, 2" FIPT
5	1	VALVE BOX AND LID (SEE STD. DWG. NO. 103)
6	4	2" 200 PSI MPT x PE PJ ADAPTER
7	AS REQ'D	2" 200 PSI PE SIDR7 (PE 3408) PIPE (OD TO FIT CL 200 FITTINGS)
8	AS REQ'D	NO. 12 THIN STRANDED COPPER TONE WIRE, BLUE INSULATION
9	1	COMBINATION AIR RELIEF VALVE, APCD 145C
10	2	CONCRETE METER BOXES, BROOKS NO. 37, STACKED
11	1	FAB. DIAMOND PLATE COVER, 3/8" X 16" X 23"
12	AS REQ'D	2" SCH 80 PVC PIPE AND FITTINGS

NOTES:
 △ DR APPROVED EQUAL.
 L = 13' UNLESS NOTED OTHERWISE ON PLAN, OMIT TONE WIRE WHERE L IS LESS THAN 10'.

CITY OF ROSEBURG WATER DEPARTMENT DATE: 10/13/1983 STANDARD DWG. NO. 107B
 REV: 4/5/2001

WATER TIE-IN DETAIL

NOTES:
 ALL PIPE AND FITTINGS FOR TIE-IN TO BE CLEAN AND WIPE W/CHLORINE PRIOR TO INSTALLATION.
 CONTRACTOR TO ALIGN NEW MAINLINE IN BOTH ALIGNMENT AND GRADE W/EXISTING 8" WATERLINE. CONNECTION TO EXISTING WATERLINE CAN ONLY BE MADE AFTER INSTALLATION. TESTING & DISINFECTION OF NEW WATERLINE HAS BEEN COMPLETED.

TYPICAL SEWER SERVICE LINE TRENCH DETAIL

***NOTE:**
 36" MIN. COVER IN TRAFFIC AREAS AND CRUSHED ROCK BEDDING FOR SANITARY SEWER SERVICES

CITY OF ROSEBURG WATER DEPARTMENT DATE: 10/13/1983 STANDARD DWG. NO. 107B
 REV: 4/5/2001

TYPICAL WATER MAINLINE TRENCH DETAIL

TYPICAL SEWER MAINLINE TRENCH DETAIL

TYPICAL 2" BLOWOFF ASSEMBLY DETAIL

TIE ROD PATTERN
 4" - 2 TIE RODS
 6" - 2 TIE RODS
 8" - 3 TIE RODS
 12" - 4 TIE RODS

TYPICAL FIRE HYDRANT INSTALLATION (THRUST BLOCKED)

NOTES:
 PLACE 1/2 C.Y. OF 1 1/2" ROUND WASHED DRAIN ROCK OR 1 1/2"-3/4" CRUSHED ROCK AROUND HYDRANT BASE AS REQUIRED FOR ADEQUATE DRAINAGE.
 DRAIN HOLE - DO NOT COVER OR PLUG WITH CONCRETE.
 6 MIL POLYETHYLENE SHEETING (TYP.)

CITY OF ROSEBURG Public Works Dept. Development Plan Review

Approved for Development Approved with Conditions

By: _____ Date: _____

CALL BEFORE YOU DIG!
 ONE CALL: (800) 332-2344
 OAR 952-001-0010 THROUGH OAR 952-001-0090

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Project Name: TAFT HEIGHTS PHASE 3A

Rev.	Date	Dwg	Description
3	1/06/06	NRJ	AS-BUILTS

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Project Name: TAFT HEIGHTS PHASE 3A

Title: DETAILS

DES DMA PROJECT NO. 1733-06
 DWG BWC DATE: MAY 26, 2004
 CHK SNL SCALE: AS SHOWN
 APP SNL SHEET: 7 OF 9

R908ADTL