

# Section 8

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## Sewer

CAST IRON RING AND COVER,  
 MARKED "SEWER" PER  
 WSDOT STANDARD PLAN B-85.40-00

"O" RING SEAL, INTERNAL GRIPPING  
 MECHANICAL PLUG WITH WING NUT.  
 TOP COVER OF PLUG SHALL BE  
 GREATER THAN 6" DIA. CHERNE  
 ECON-O-GRIP MECHANICAL PLUG OR  
 APPROVED EQUAL (SEE NOTE 2)

FINISHED GRADE

TRENCH BACKFILL

30" X 30" X 15"  
 CONCRETE PAD

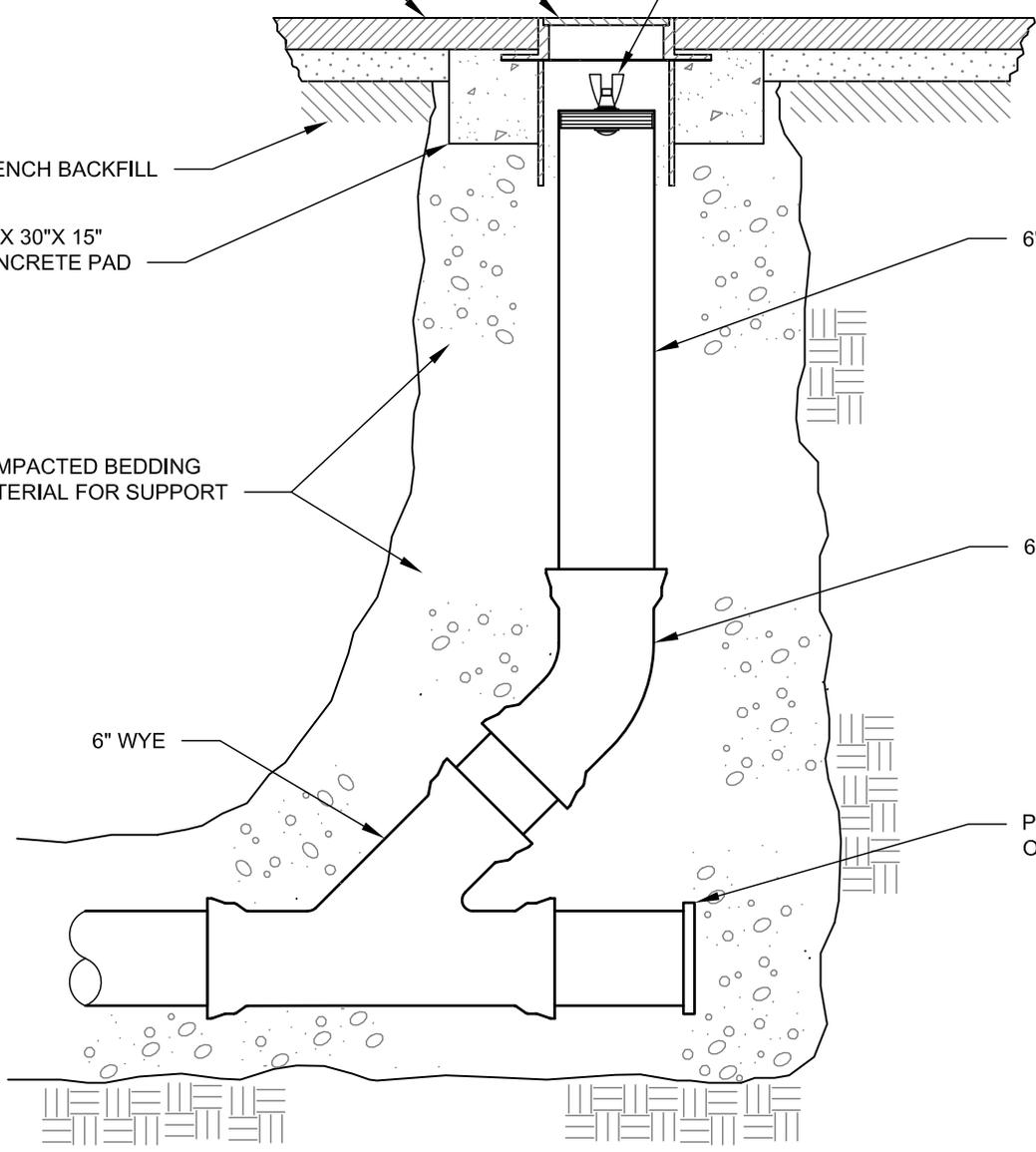
COMPACTED BEDDING  
 MATERIAL FOR SUPPORT

6" WYE

6" RISER

6" 45° BEND

PLUG (UNLESS  
 OTHERWISE NOTED)



**SECTION**  
 NTS

NOTES:

1. IN NON-SINGLE FAMILY RESIDENTIAL DEVELOPMENTS WHEN THE CLEANOUT IS LOCATED IN THE LANDSCAPE AREA, INSTALL A VALVE MARKER POST (NOT SHOWN), PAINTED FOREST GREEN (FARWEST PAINT, #388).
2. DEFORM END OF THREAD ON MECHANICAL PLUG BOLT TO SECURE WING NUT IN PLACE.

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REVISION DATE: JULY 01, 2014



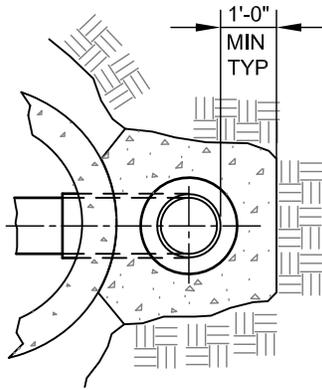
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STANDARD DETAILS

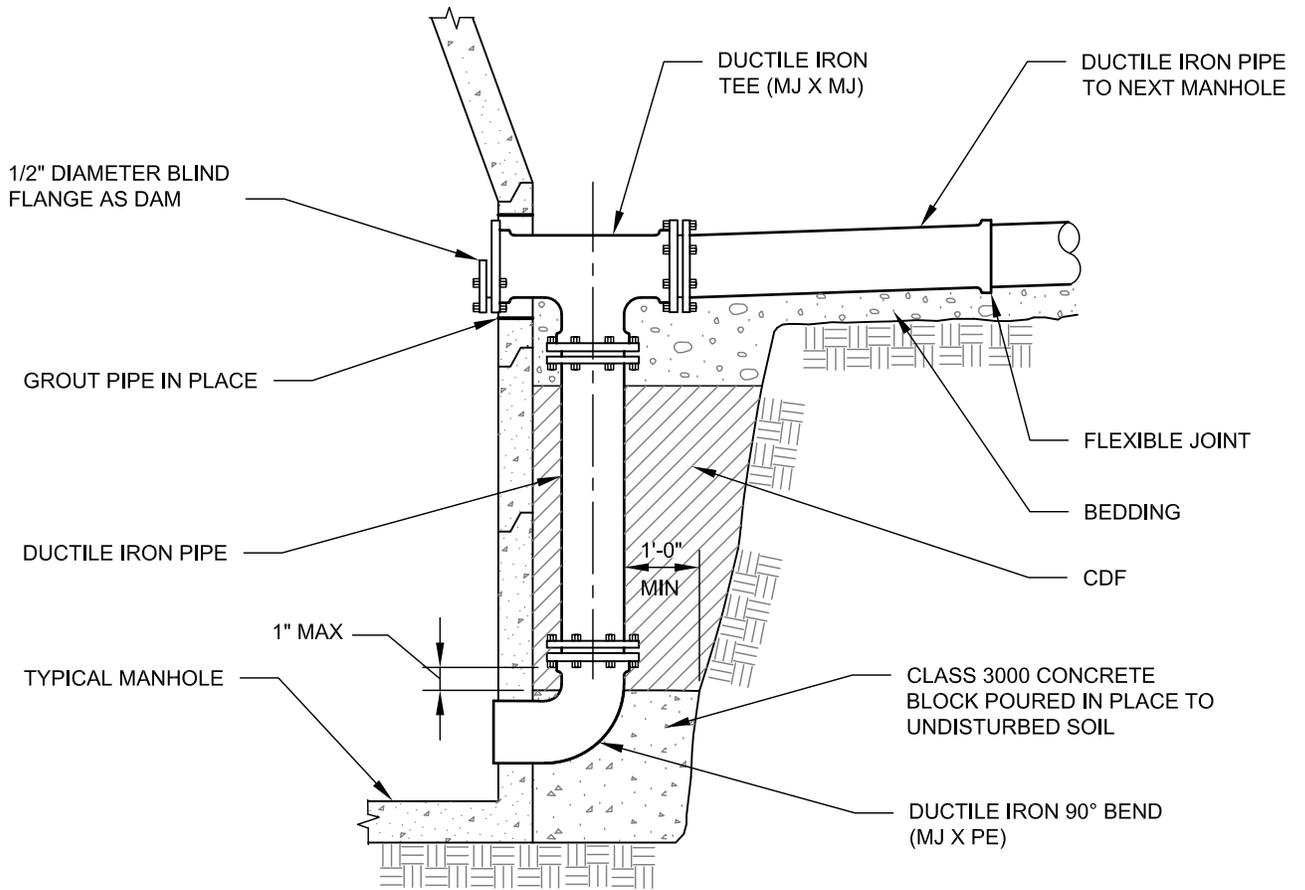
**SIDE SEWER CLEANOUT**

FILE NAME: SD810.DWG

DETAIL NUMBER: **810**



**PLAN**  
NTS



**SECTION**  
NTS

NOTE:  
FOR SIZE OF PIPE, REFER TO  
CONSTRUCTION DRAWING.

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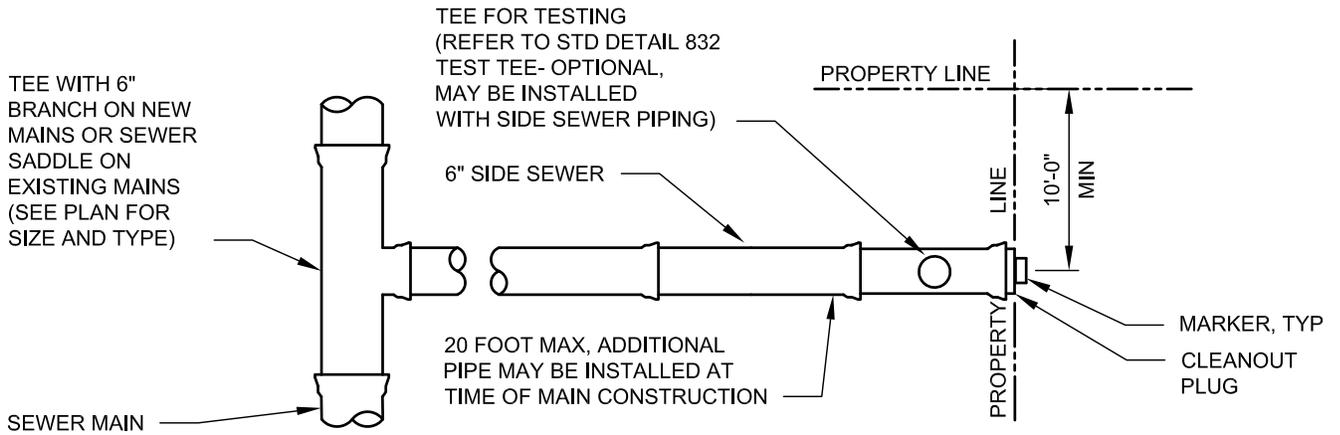
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STANDARD DETAILS

**DROP CONNECTION**

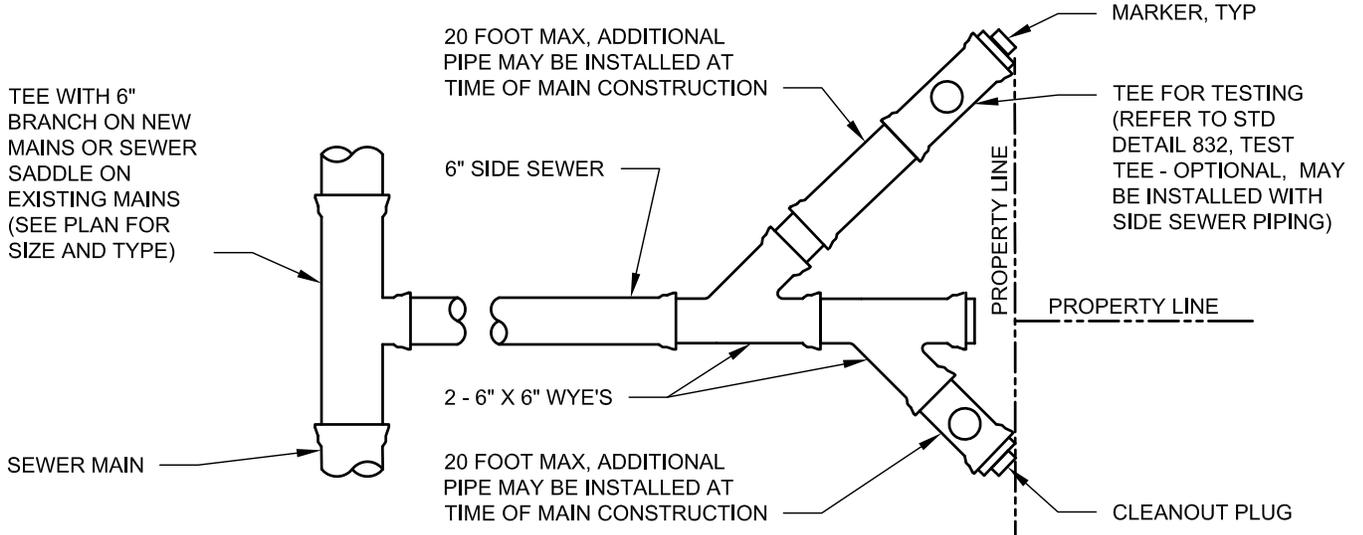
FILE NAME: SD820.DWG

DETAIL NUMBER: **820**



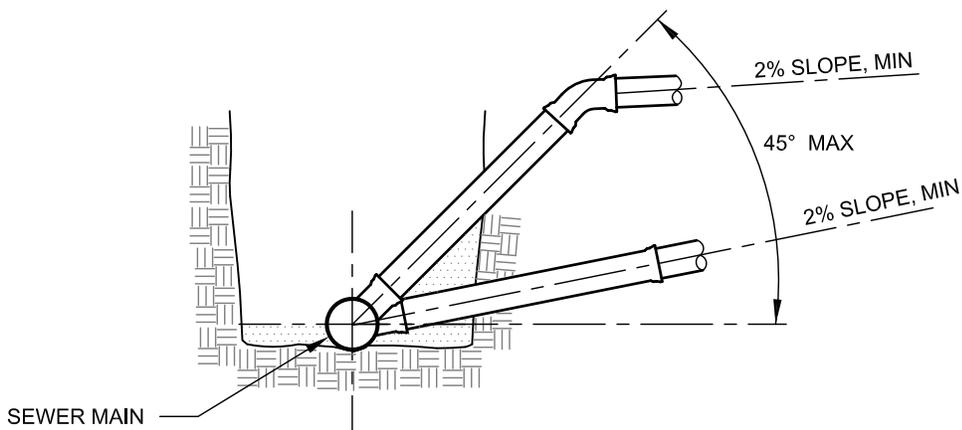
**TYPICAL SINGLE SERVICE**

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**TYPICAL DOUBLE SERVICE**

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**CONNECTION AT SEWER MAIN**

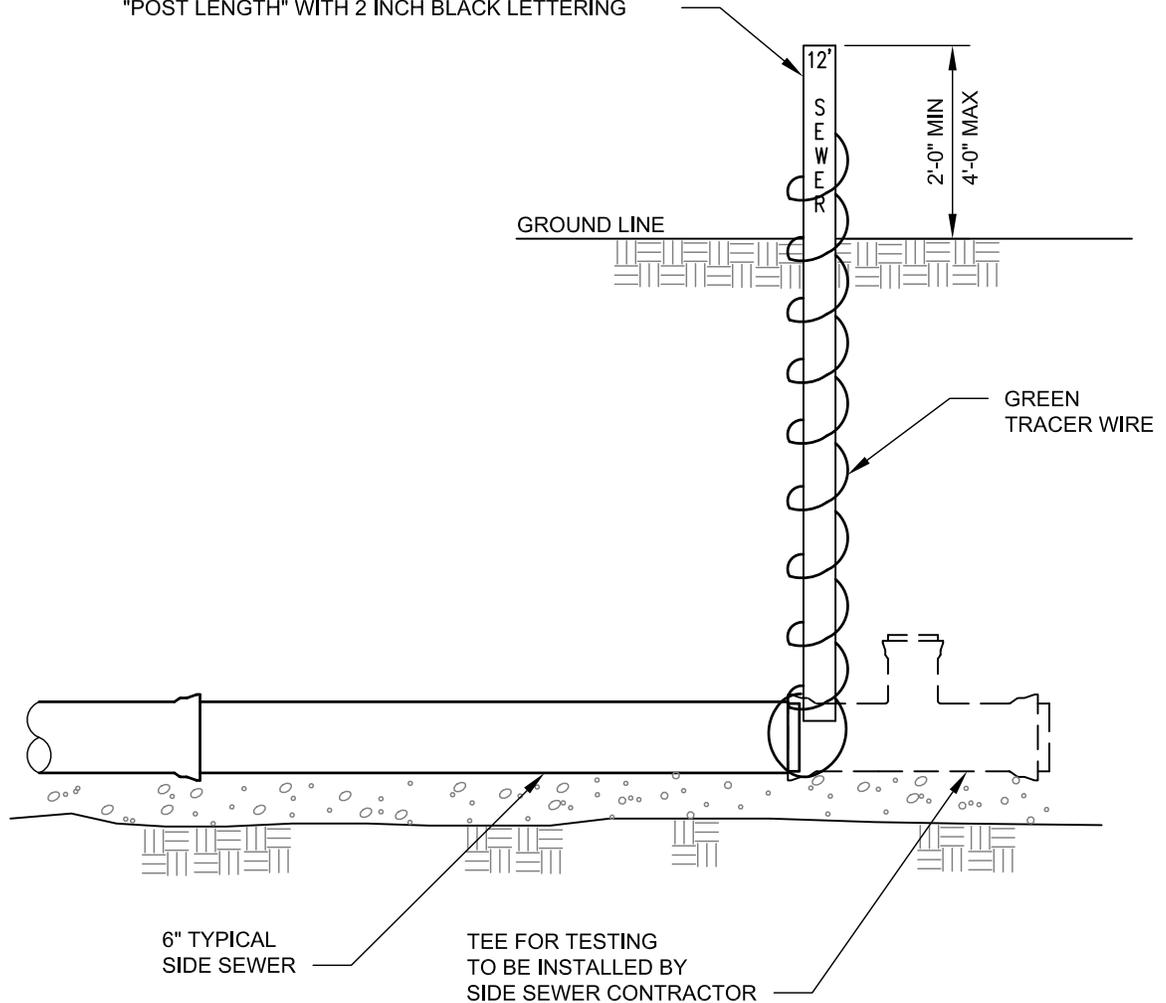
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STANDARD DETAILS	
<b>SIDE SEWER</b>	
FILE NAME: SD830.DWG	DETAIL NUMBER: <b>830</b>

USE 8', 10' OR 12' LONG 2" X 4" PRESSURE TREATED  
WOODEN POST PAINTED WHITE TO MARK END  
OF SIDE SEWER STUB. (SEE NOTE 2)  
POST SHALL BE STENCILED "SEWER" AND  
"POST LENGTH" WITH 2 INCH BLACK LETTERING



**SIDE SEWER MARKER**  
NTS

NOTES:

1. DISTANCE TO SIDE SEWER STUB IS MEASURED FROM TOP OF POST TO INVERT OF PIPE.
2. FOR STUBS GREATER THAN 10 FEET DEEP, SPLICE PRESSURE TREATED 2" X 4" POSTS WITH A MINIMUM OF A 2 FOOT OVERLAP.

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STANDARD DETAILS  
**SIDE SEWER MARKER**  
FILE NAME: SD832.DWG    DETAIL NUMBER: **832**

FIRST STEP  
MAX OF  
1'-6" DOWN

2'-0" CLEAR  
OPENING

CITY OF REDMOND  
STANDARD RING AND COVER

4" MIN  
1'-4" MAX

25'-0"  
MAX

PLASTER INSIDE  
FACING WITH  
3/4" GROUT

GROUT BETWEEN  
ADJUSTING RINGS

POLYPROPYLENE  
MANHOLE STEPS

48" X 24" OFFSET CONE  
ALIGN CONE OPENING AND  
LADDER OVER OUTLET PIPE  
(TYPE 1 MANHOLE WSDOT  
STANDARD PLAN B-15.20-00)

12" TYP

RUBBER GASKETED,  
GROUT ALL JOINTS  
CONTINUOUS ON  
INSIDE AND OUTSIDE  
OF MANHOLE

LADDER  
(SEE NOTE  
BELOW)

FILL LIFTING HOLES WITH  
NON-SHRINK GROUT

B  
842

CROWN + 0.1'

GRAVEL BACKFILL FOR  
PIPE ZONE BEDDING  
OR "PEA GRAVEL"

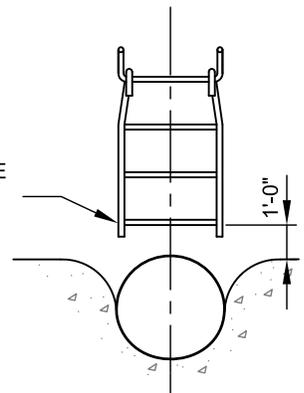
COR-N-SEAL OR  
APPROVED EQUAL

6" MINIMUM

CHANNEL DEPTH SHALL BE  
3/4 OF THE DIAMETER OF THE  
PIPE, PRECAST CHANNELS  
SHALL NOT BE USED

**SECTION**  
NTS

USE 3/8" DIA SS  
BOLTS TO SECURE  
LADDER TO WALL



**LADDER**  
NTS

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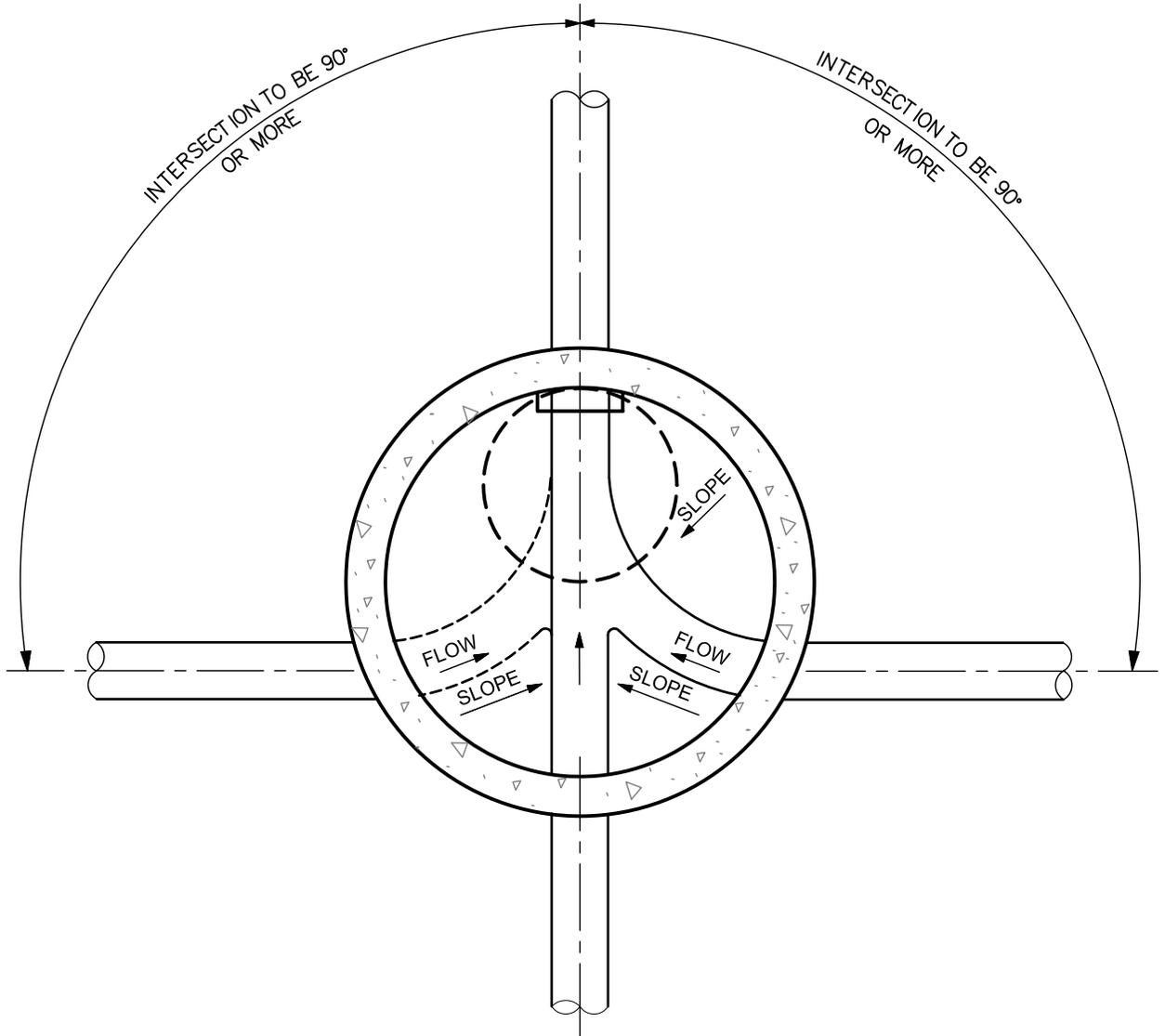
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STANDARD DETAILS

**48" STANDARD  
SEWER MANHOLE**

FILE NAME: SD840.DWG

DETAIL NUMBER: **840**



SECTION B  
 NTS 840

NOTES:

IN "TOP OF SYSTEM" MANHOLES WITH A 6 INCH LATERAL, PROVIDE CHANNELING TO THE UPSTREAM END OF MANHOLE. CHANNEL WIDTH SHALL BE EQUAL TO THE DOWNSTREAM SEWER MAIN DIAMETER.

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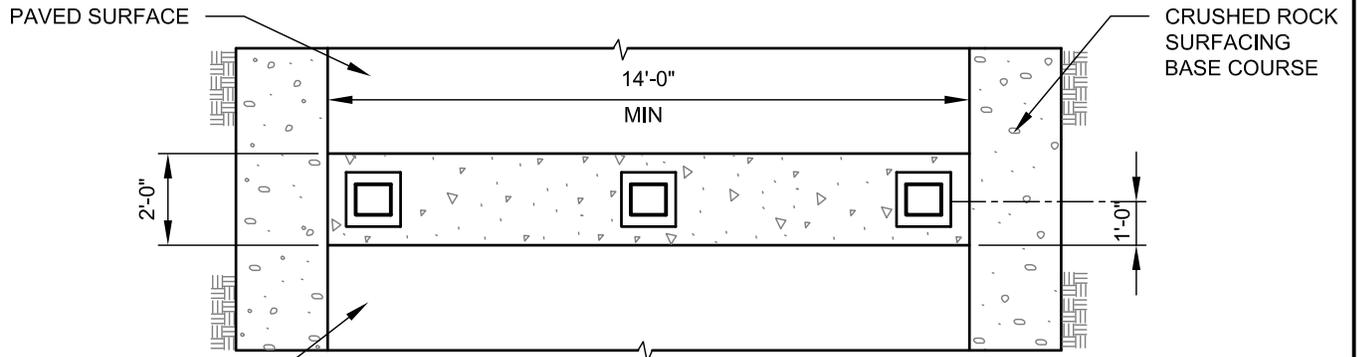
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STANDARD DETAILS

**INTERSECTION OF  
 SEWERS AT MANHOLE**

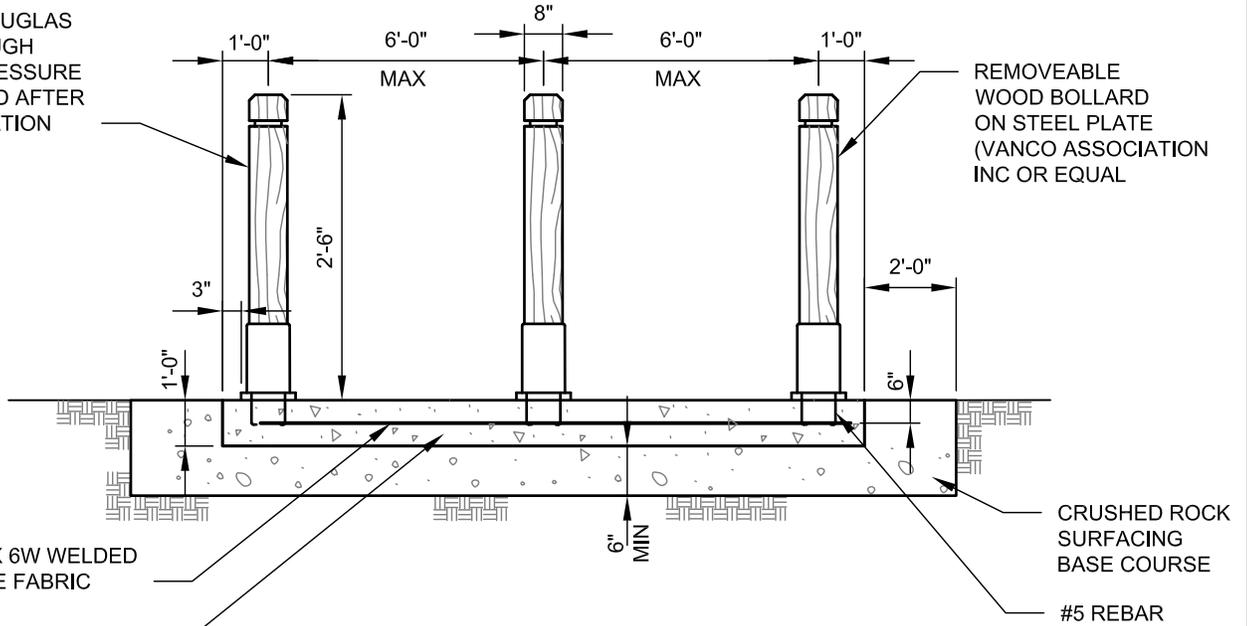
FILE NAME: SD842.DWG

DETAIL NUMBER: **842**



**PLAN**  
NTS

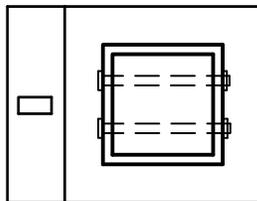
8"X8" DOUGLAS  
FIR, ROUGH  
CUT, PRESSURE  
TREATED AFTER  
FABRICATION



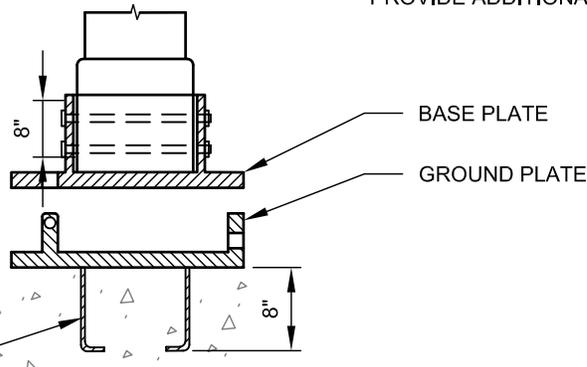
**SECTION**  
NTS

NOTE:

IF ACCESS ROAD IS WIDER THAN 14 FEET,  
PROVIDE ADDITIONAL BOLLARDS AS NEEDED.



**PLAN**



**SECTION**

**BOLLARD AND BASE PLATE**  
NTS

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STANDARD DETAILS

**BOLLARD BARRIER FOR  
UTILITY ACCESS ROAD**

FILE NAME: SD890.DWG

DETAIL NUMBER: **890**