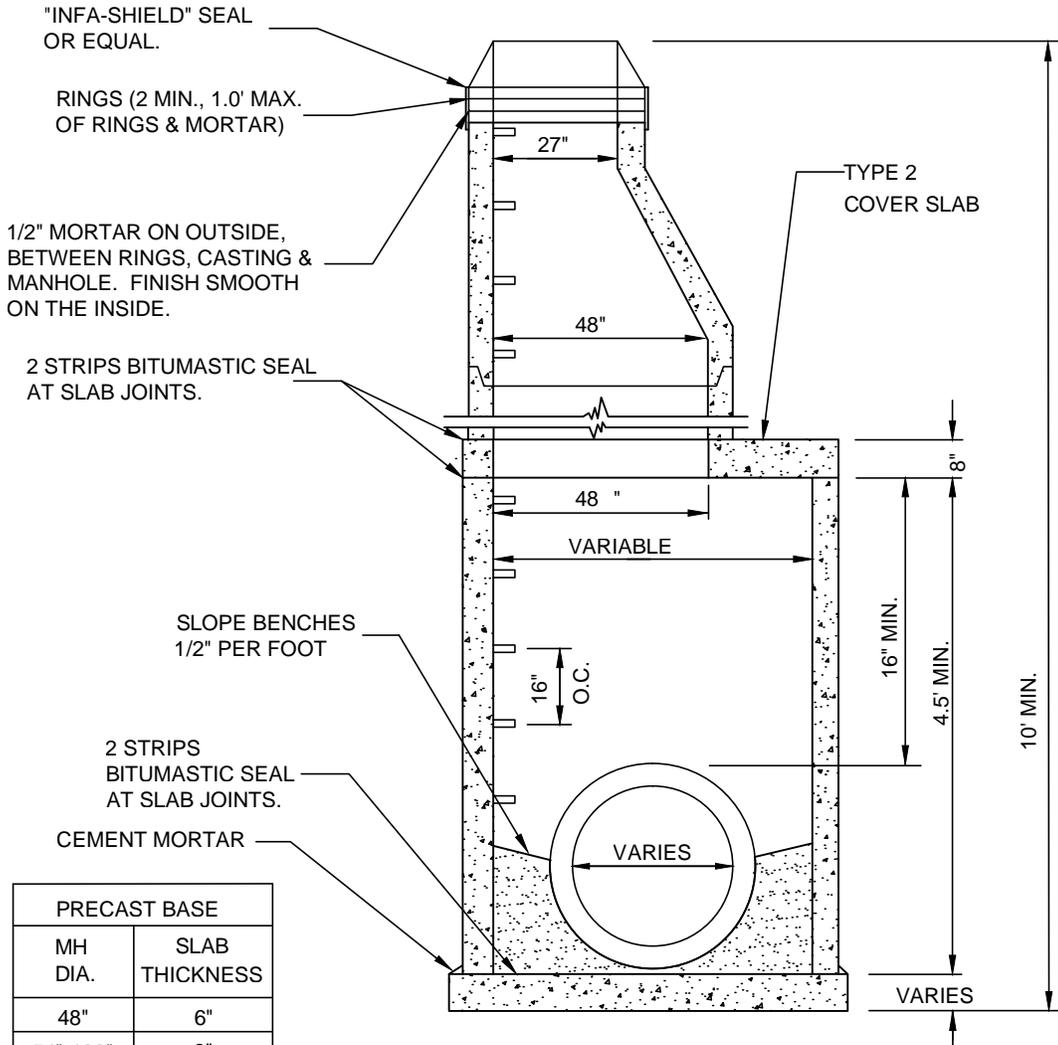


NOTES:

1. NO WOOD SHALL BE USED FOR ADJUSTING CASTING.
2. CAST IRON FRAME AND COVER AS PER SPECIFICATIONS.
3. MANHOLE STEPS SHALL BE ALUMINUM, OR STEEL REINFORCED PLASTIC PER ASTM C478.
4. PRECAST REINFORCED CONCRETE MANHOLE SECTIONS PER ASTM C478 FURNISHED WITH O-RING GASKETS AND LUBRICANT EXCEPT AS OTHERWISE SPECIFIED. LIFT HOLES NOT PERMITTED IN MANHOLE SECTIONS.
5. PIPE CONNECTIONS TO MANHOLE SHALL BE MADE WATER TIGHT BY CAST IN PLACE RUBBER BOOT AND CEMENT MORTAR. INSIDE SURFACE SHALL BE FINISHED SMOOTH.

DESIGN:	DATE:		ENGINEERING DEPARTMENT	PLATE NUMBER
DRAWN:			SANITARY MANHOLE	S-1
REVISIONS				



NOTES:

- NO WOOD SHALL BE USED FOR ADJUSTING CASTING, CEMENT MORTAR ONLY.
- CAST IRON MANHOLE FRAME & COVER AS PER SPECIFICATIONS.
- MANHOLE STEPS SHALL BE CAST IRON, ALUMINUM OR STEEL REINFORCED PLASTIC PER ASTM C478. STEP LOCATION SHALL BE AS NOTED IN THE SPECIFICATIONS.
- PRECAST REINFORCED CONCRETE MANHOLE SECTIONS PER ASTM C478, FURNISHED WITH O-RING GASKETS AND LUBRICANT EXCEPT AS OTHERWISE SPECIFIED. INSTALL 12" OR 16" BARREL SECTION UNDER THE CONE WHENEVER POSSIBLE.
- PIPE CONNECTIONS TO MANHOLE SHALL BE MADE WATER TIGHT BY CAST INPLACE.

DESIGN:	DATE:
DRAWN:	
REVISIONS	

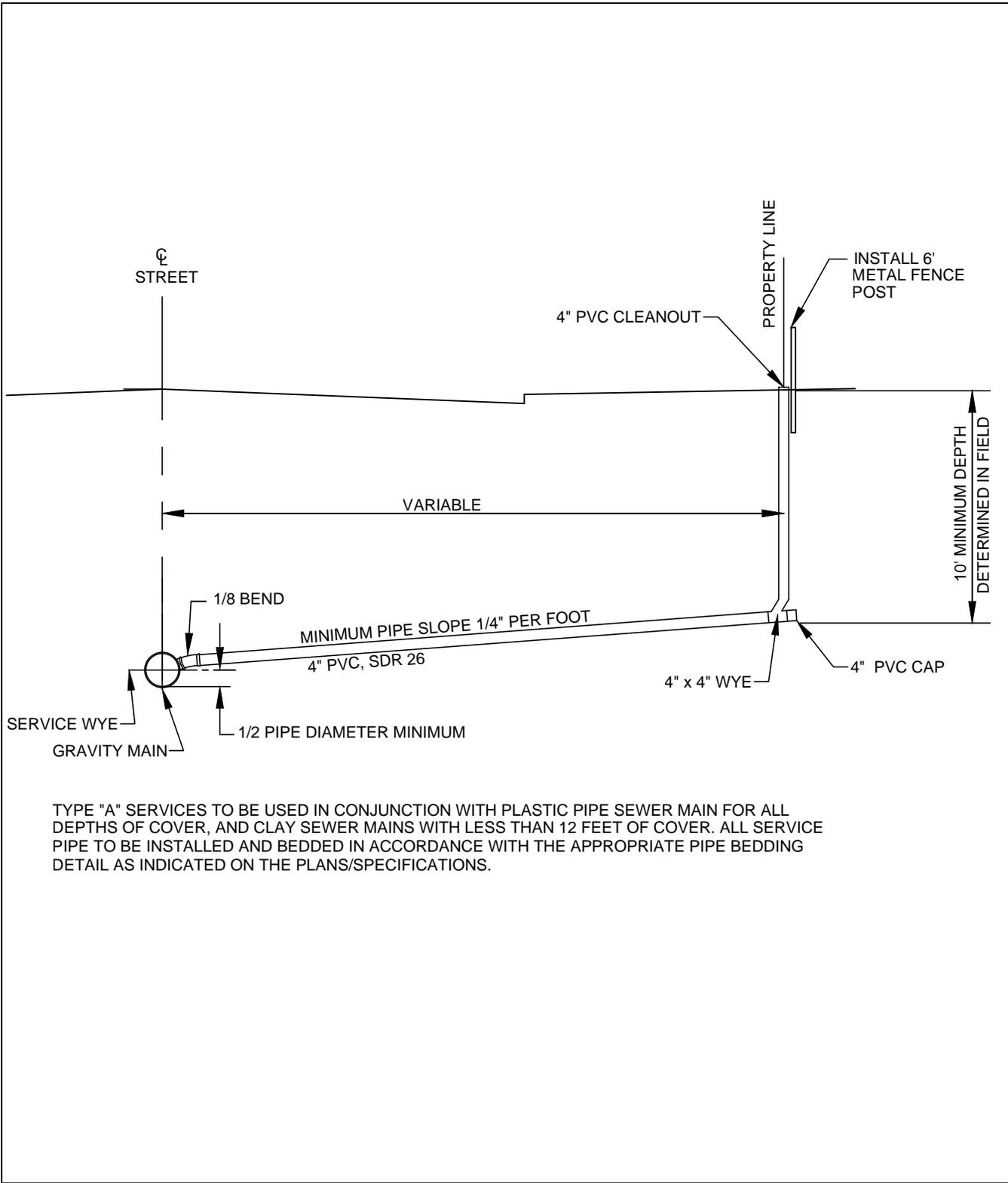


ENGINEERING DEPARTMENT

SANITARY SEWER MANHOLE
(27" OR MORE)

PLATE NUMBER

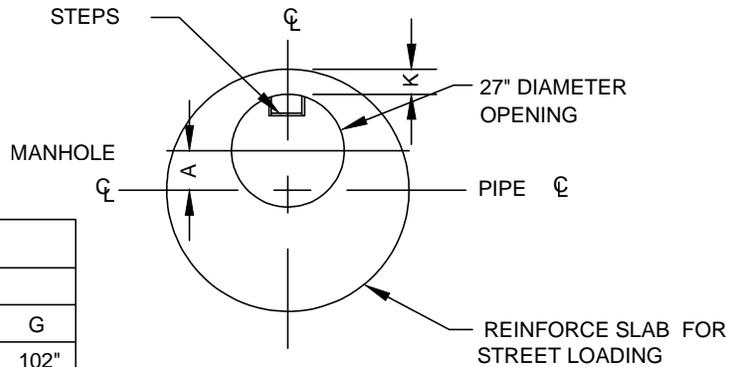
S-2



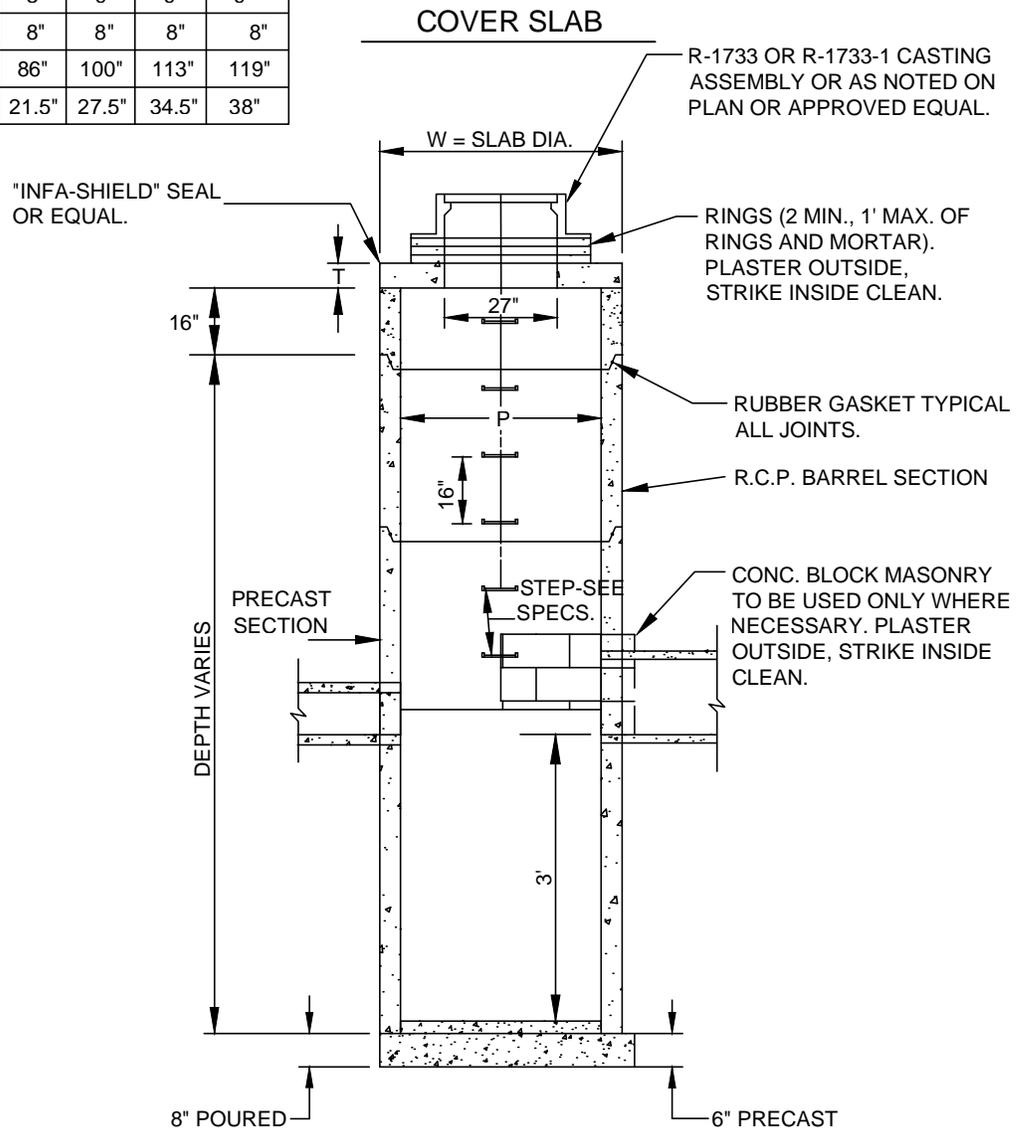
TYPE "A" SERVICES TO BE USED IN CONJUNCTION WITH PLASTIC PIPE SEWER MAIN FOR ALL DEPTHS OF COVER, AND CLAY SEWER MAINS WITH LESS THAN 12 FEET OF COVER. ALL SERVICE PIPE TO BE INSTALLED AND BEDDED IN ACCORDANCE WITH THE APPROPRIATE PIPE BEDDING DETAIL AS INDICATED ON THE PLANS/SPECIFICATIONS.

DESIGN:	DATE:	 ENGINEERING DEPARTMENT SANITARY SEWER SERVICE	PLATE NUMBER
DRAWN: DRT			S-3
REVISIONS: 10/15			

NOTE:
 DIMENSION "A" IN CHART IS
 BASED ON A 27" DIAMETER
 OPENING. INCREASE "A" BY 1.5"
 FOR 24" OPENING.



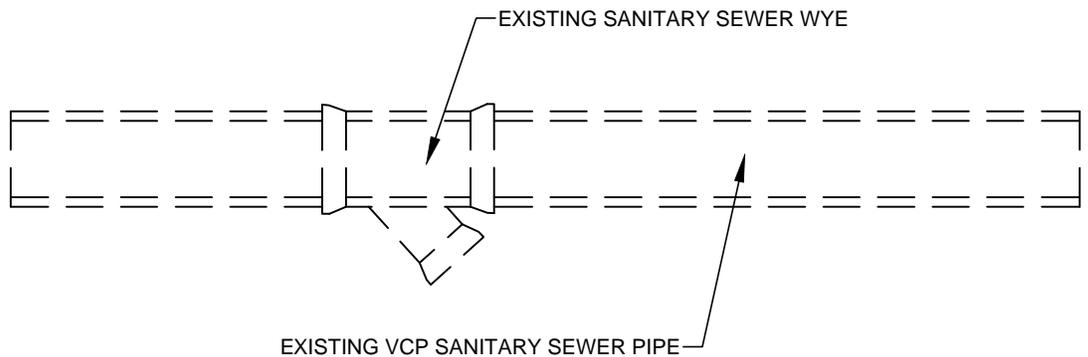
		MANHOLE TYPE					
		B	C	D	E	F	G
DIMENSIONS IN INCHES	P	48"	60"	72"	84"	96"	102"
	K	6"	7"	8"	9"	9"	9"
	T	6"	8"	8"	8"	8"	8"
	W	58"	72"	86"	100"	113"	119"
	A	9.5"	15.5"	21.5"	27.5"	34.5"	38"



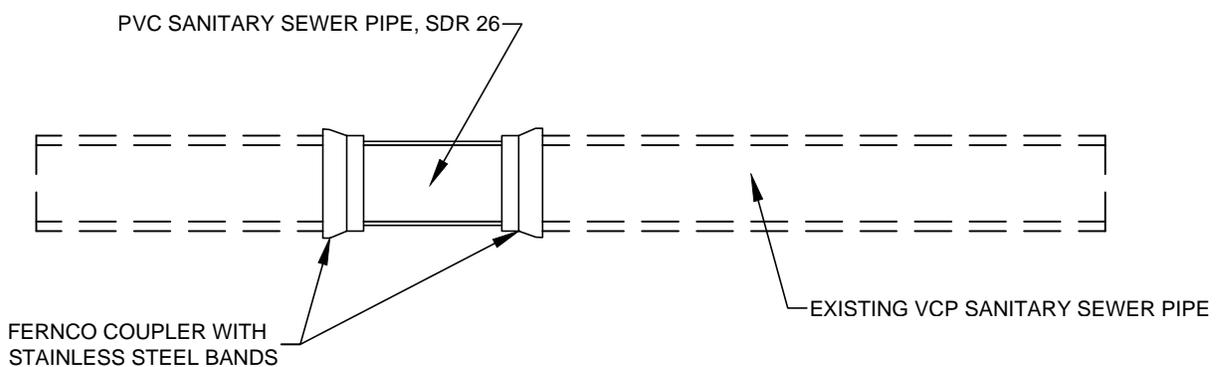
DESIGN:	DATE:
DRAWN:	
REVISIONS	

ROSEVILLE ENGINEERING DEPARTMENT
**MANHOLE: TYPE B THRU G
 WITH SUMP**

PLATE
 NUMBER
S-4



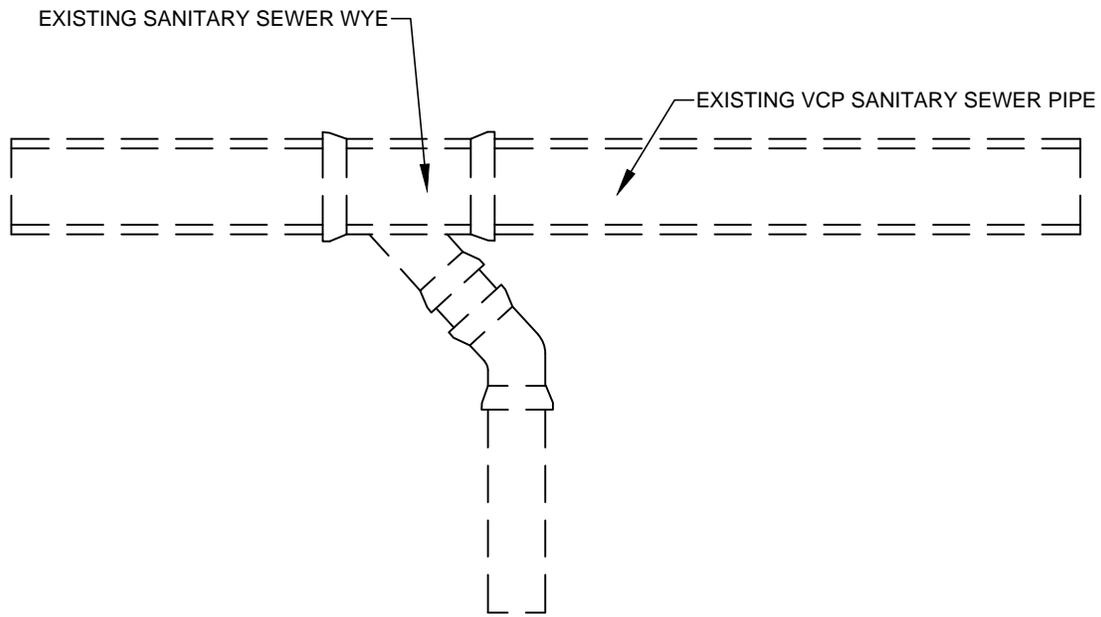
EXISTING CONDITION



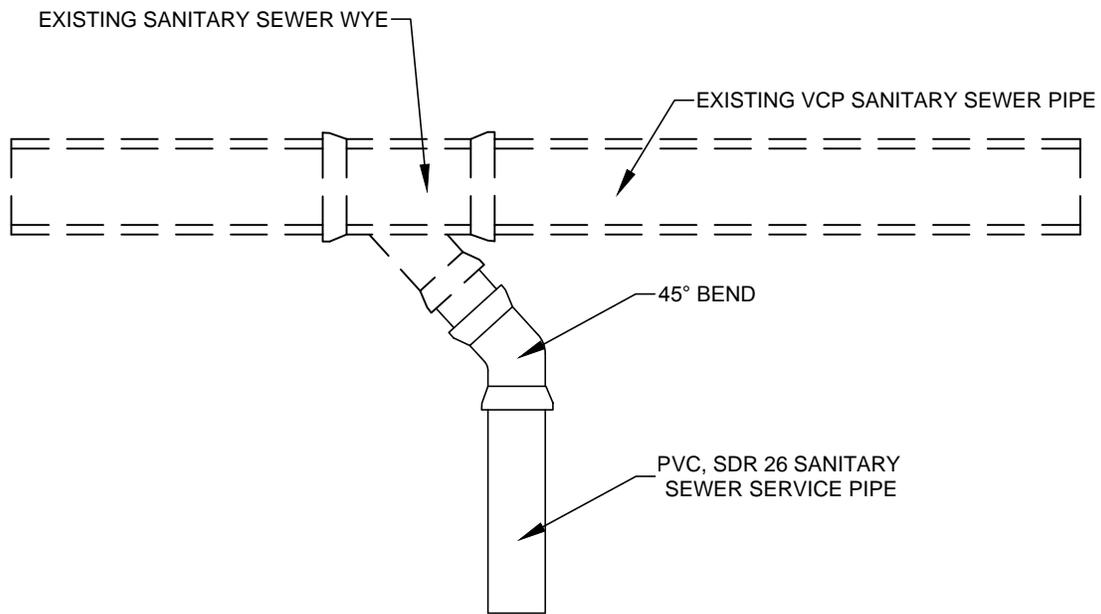
PROPOSED CONDITION

NOTE:
 ALL PVC PIPE TO BE INSTALLED AND BEDDED IN ACCORDANCE WITH THE APPROPRIATE PIPE BEDDING DETAIL AS INDICATED ON THE PLANS/SPECIFICATIONS.

DESIGN:	DATE:	 ENGINEERING DEPARTMENT SANITARY SEWER PIPE REPLACEMENT	PLATE NUMBER
DRAWN: DRT			S-6
REVISIONS: 10/15			



EXISTING CONDITION



PROPOSED CONDITION

NOTE:
 ALL PVC PIPE TO BE INSTALLED AND BEDDED IN ACCORDANCE WITH THE APPROPRIATE PIPE BEDDING DETAIL AS INDICATED ON THE PLANS/SPECIFICATIONS.

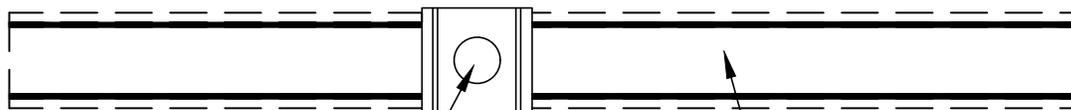
DESIGN:	DATE:	 ENGINEERING DEPARTMENT SANITARY SEWER SERVICE REPLACEMENT	PLATE NUMBER
DRAWN: DRT			S-7
REVISIONS: 10/15			



EXISTING CIPP LINER

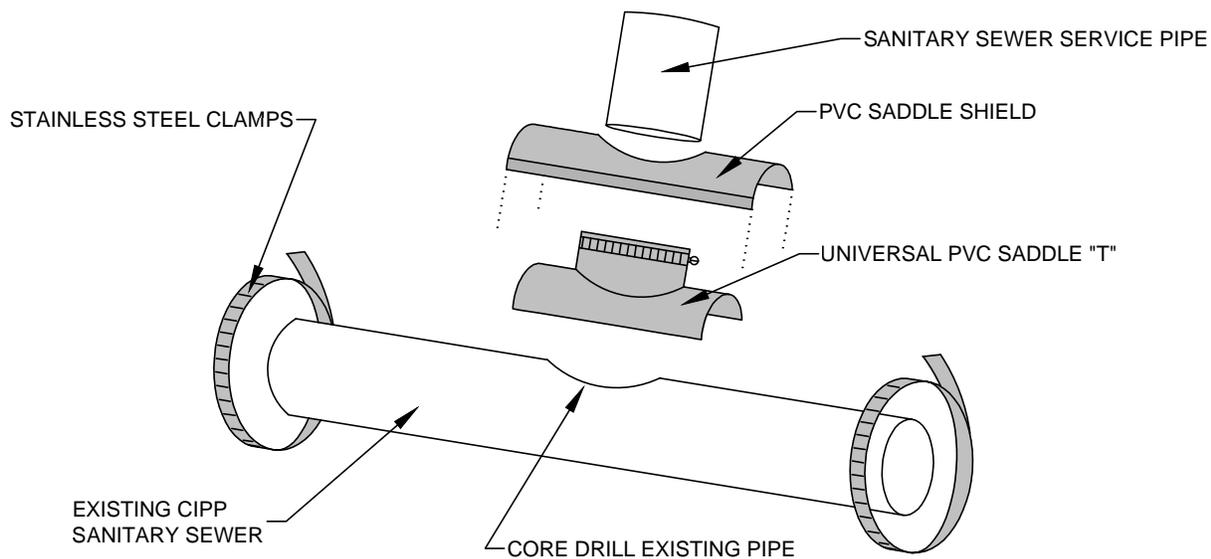
EXISTING SANITARY SEWER PIPE

EXISTING CONDITION



SANITARY SEWER SERVICE WYE BRANCH

EXISTING SANITARY SEWER PIPE



SANITARY SEWER SERVICE PIPE

PVC SADDLE SHIELD

UNIVERSAL PVC SADDLE "T"

STAINLESS STEEL CLAMPS

EXISTING CIPP
SANITARY SEWER

CORE DRILL EXISTING PIPE

PROPOSED CONDITION

NOTE:

1. FOR 4" OR 6" SERVICES, INSTALL PIPECONX SADDLE TEE OR APPROVED EQUAL.
2. FLEXIBLE SADDLE MUST BE INSTALLED IN COMBINATION WITH SADDLE SHIELD.

DESIGN:	DATE:
DRAWN: DRT	
REVISIONS: 10/15	

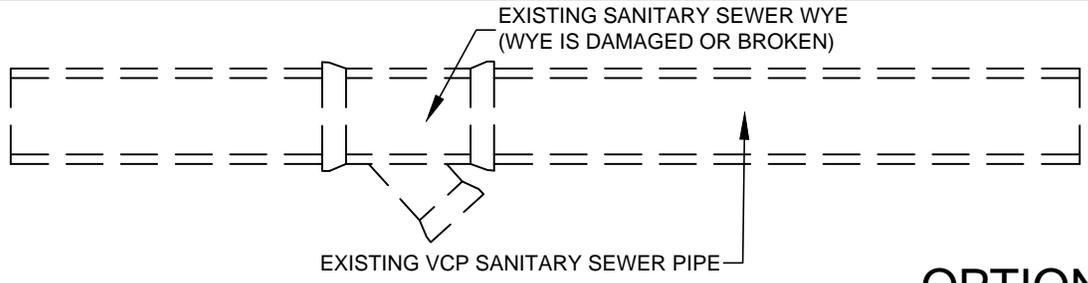


ENGINEERING DEPARTMENT

**SANITARY SEWER SERVICE
INSTALLATION FOR CIPP**

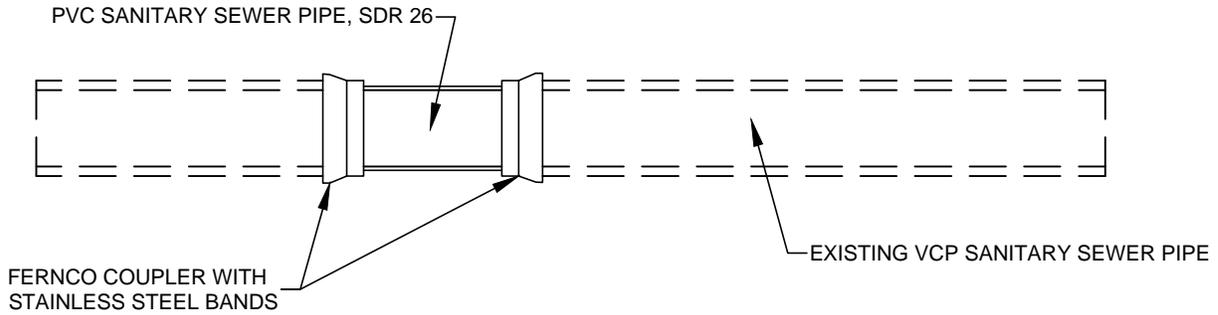
PLATE
NUMBER

S-8

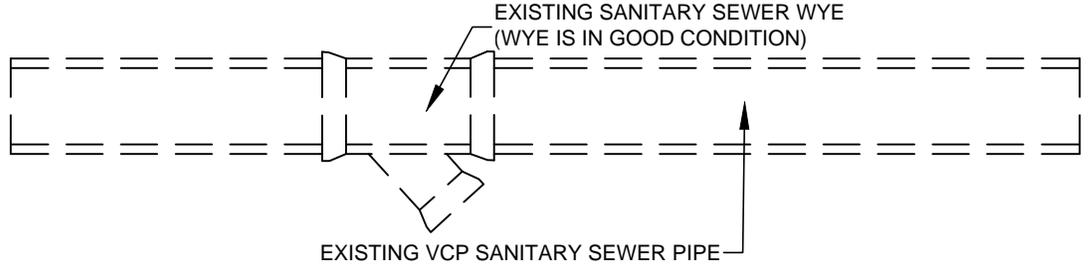


EXISTING CONDITION

OPTION A

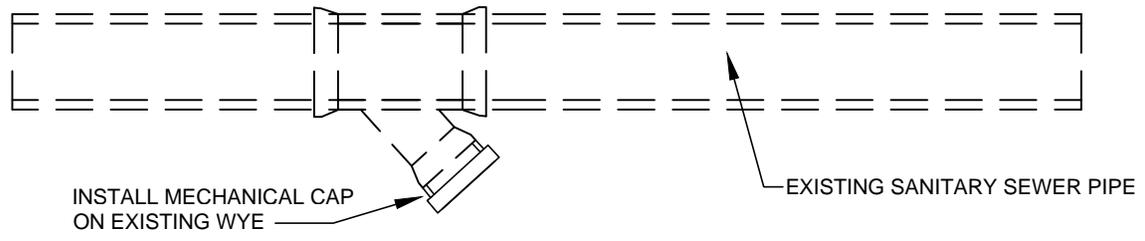


PROPOSED CONDITION



EXISTING CONDITION

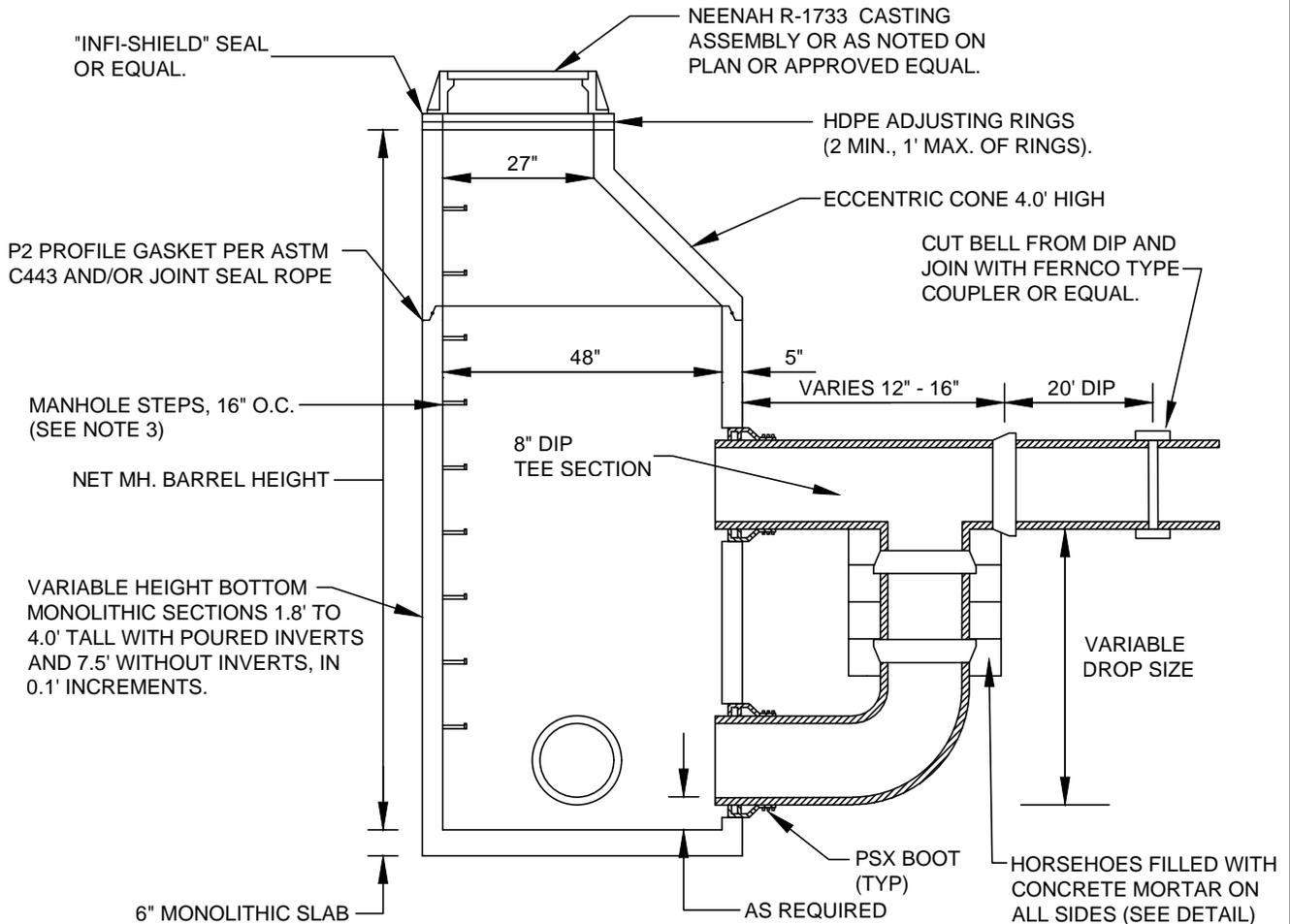
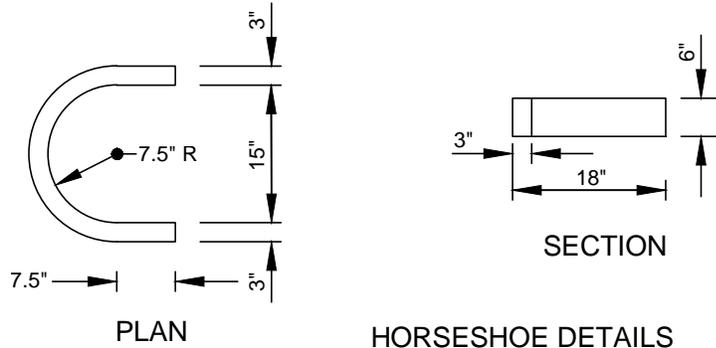
OPTION B



PROPOSED CONDITION

NOTE:
ALL PVC PIPE TO BE INSTALLED AND BEDDED IN ACCORDANCE WITH THE APPROPRIATE PIPE BEDDING DETAIL AS INDICATED ON THE PLANS/SPECIFICATIONS.

DESIGN:	DATE:	 ENGINEERING DEPARTMENT SANITARY SEWER WYE REPLACEMENT	PLATE NUMBER
DRAWN: DRT			
REVISIONS: 10/15			S-9



NOTES:

1. NO WOOD SHALL BE USED FOR ADJUSTING CASTING.
2. CAST IRON FRAME AND COVER AS PER SPECIFICATIONS.
3. MANHOLE STEPS SHALL BE ALUMINUM, OR STEEL REINFORCED PLASTIC PER ASTM C478.
4. PRECAST REINFORCED CONCRETE MANHOLE SECTIONS PER ASTM C478 FURNISHED WITH O-RING GASKETS AND LUBRICANT EXCEPT AS OTHERWISE SPECIFIED. LIFT HOLES NOT PERMITTED IN MANHOLE SECTIONS.
5. PIPE CONNECTIONS TO MANHOLE SHALL BE MADE WATER TIGHT BY CAST IN PLACE RUBBER BOOT AND CEMENT MORTAR. INSIDE SURFACE SHALL BE FINISHED SMOOTH.

DESIGN:	DATE:		
DRAWN:			
REVISIONS			



ENGINEERING DEPARTMENT

**SANITARY DROP
INLET MANHOLE**

PLATE
NUMBER

S-10