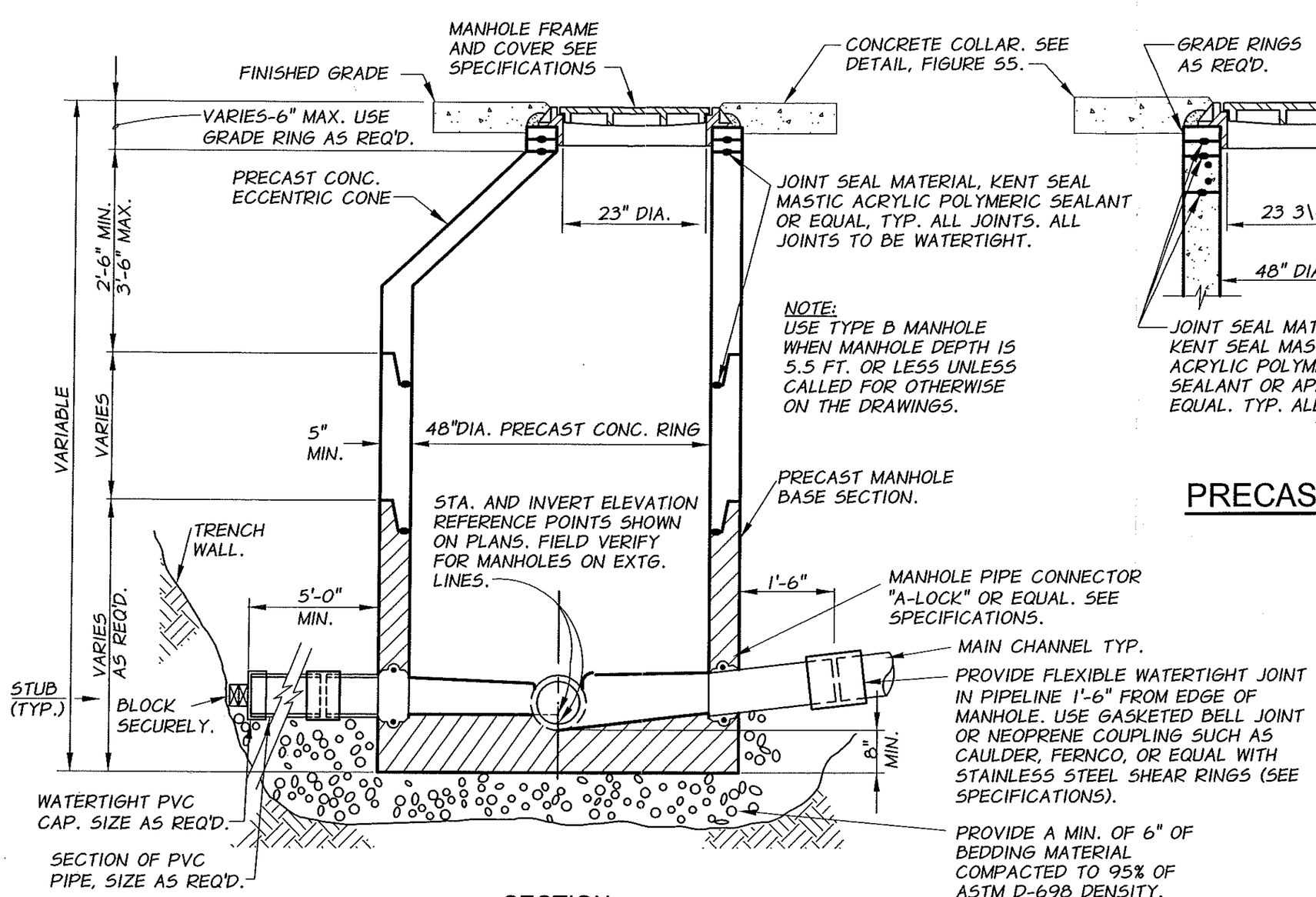
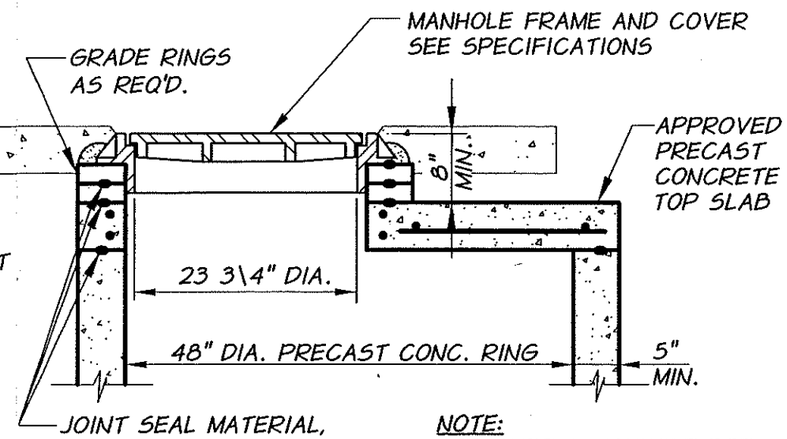


SECTION

STANDARD PRECAST BASE MANHOLE

TYPE A

N.T.S.



NOTE:
SEE TYPE A MANHOLE FOR BASE AND WALL DETAILS.

PRECAST TOP SLAB MANHOLE

TYPE B

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CITY OF COVE OREGON

STANDARD SEWER DETAILS

STANDARD PRECAST MANHOLE

FIGURE **S1**

MANHOLE CONSTRUCTION NOTES

1. ALL MANHOLES SHALL BE PRECAST MANHOLE UNITS UNLESS OTHERWISE APPROVED.

2. ANY GAPS, HOLES, ROUGH SPOTS, ETC., IN THE CHANNELS SHALL BE FILLED OR REPAIRED IN THE FIELD.

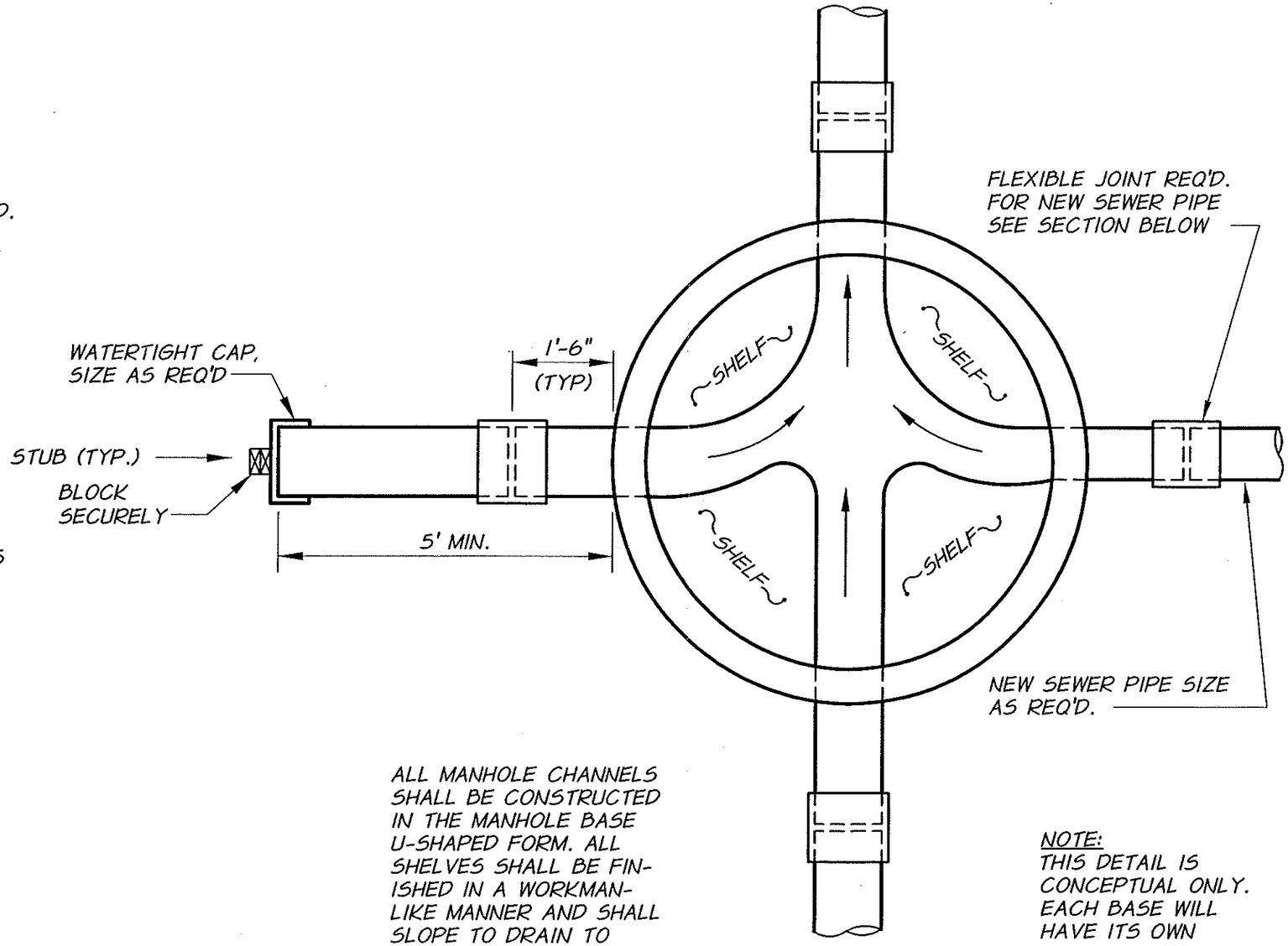
3. THE MANHOLES SHALL BE SET 0 TO 6 INCHES BELOW FINISH GRADE AND THEN ADJUSTED TO GRADE WITH GRADE RINGS AS REQUIRED.

4. CONE SECTION SHALL BE ECCENTRIC.

6. SHOULD THE ENGINEER DETERMINE THE NATIVE MATERIAL IS UNSUITABLE FOUNDATION, ADDITIONAL MATERIAL SHALL BE INSTALLED AS OUTLINED IN THE TECHNICAL SPECIFICATIONS.

7. FLOW CHANNEL IN MANHOLE SHALL DROP A MINIMUM OF 0.1 FEET FROM INLET TO OUTLET.

8. IN MANUFACTURING THE MANHOLES, THE CONTRACTOR IS ADVISED TO REVIEW THE DETAILS ON THIS SHEET WHICH SHOW THE SEWER PIPE SLOPE CALCULATED TO THE CENTERLINE OF THE MANHOLE.



ALL MANHOLE CHANNELS SHALL BE CONSTRUCTED IN THE MANHOLE BASE U-SHAPED FORM. ALL SHELVES SHALL BE FINISHED IN A WORKMANLIKE MANNER AND SHALL SLOPE TO DRAIN TO CHANNEL AT 1:12 MAX. SLOPE.

NOTE:
THIS DETAIL IS CONCEPTUAL ONLY. EACH BASE WILL HAVE ITS OWN UNIQUE LAYOUT.

PLAN

MANHOLE BASE

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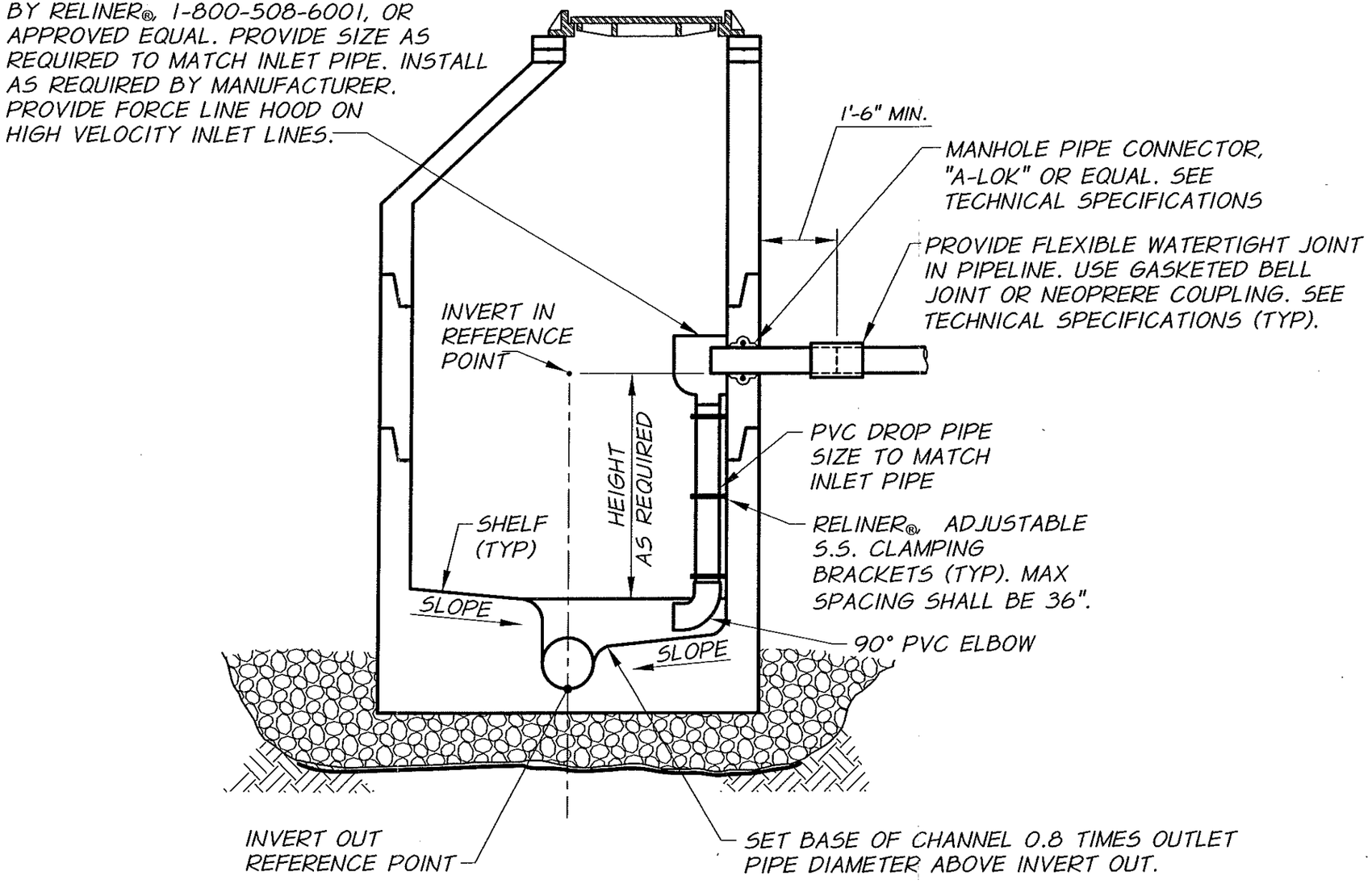
STANDARD SEWER DETAILS
MANHOLE BASE/
CONSTRUCTION NOTES

FIGURE
S2

NOTE:
SEE FIGURES S1 AND S2 FOR OTHER MANHOLE REQUIREMENTS.



DROP PRECAST MANHOLE

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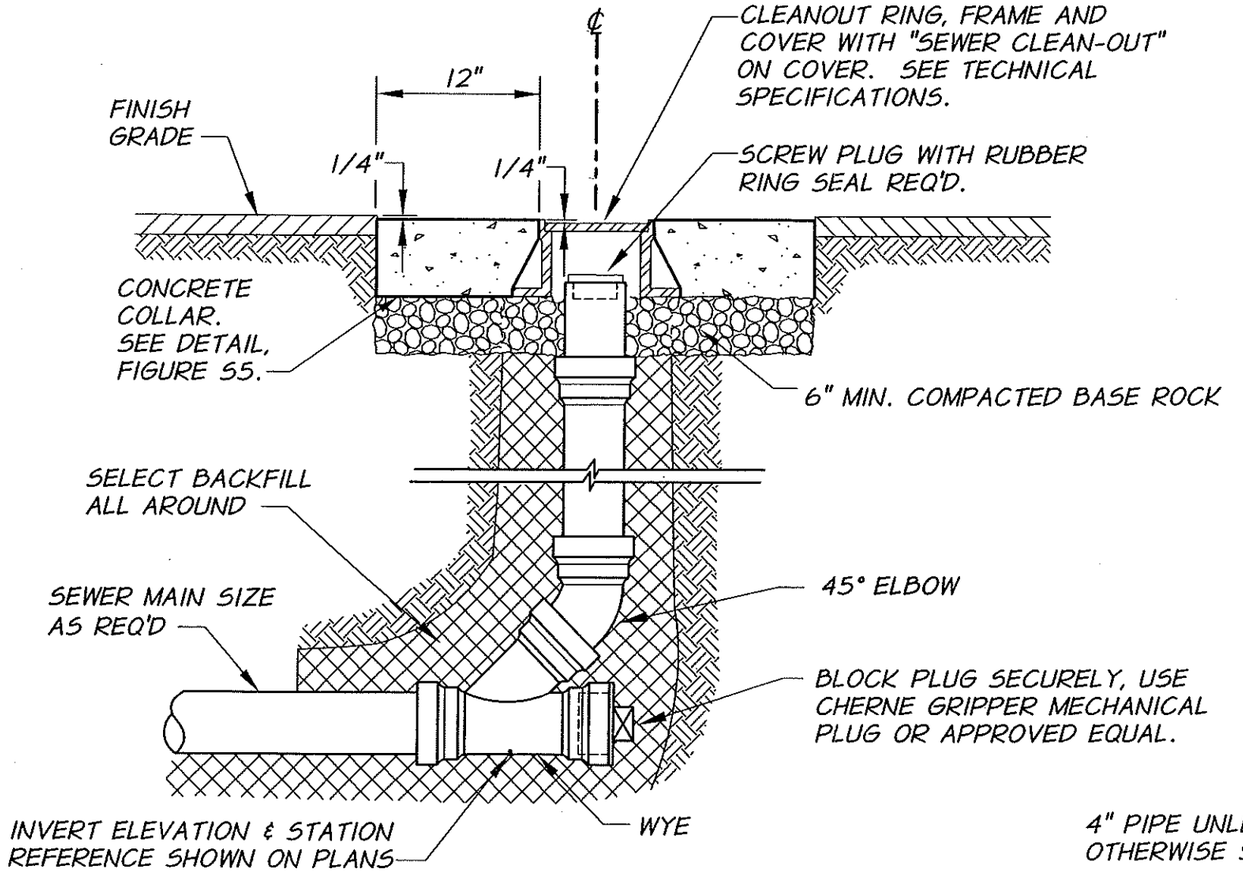
STANDARD SEWER DETAILS

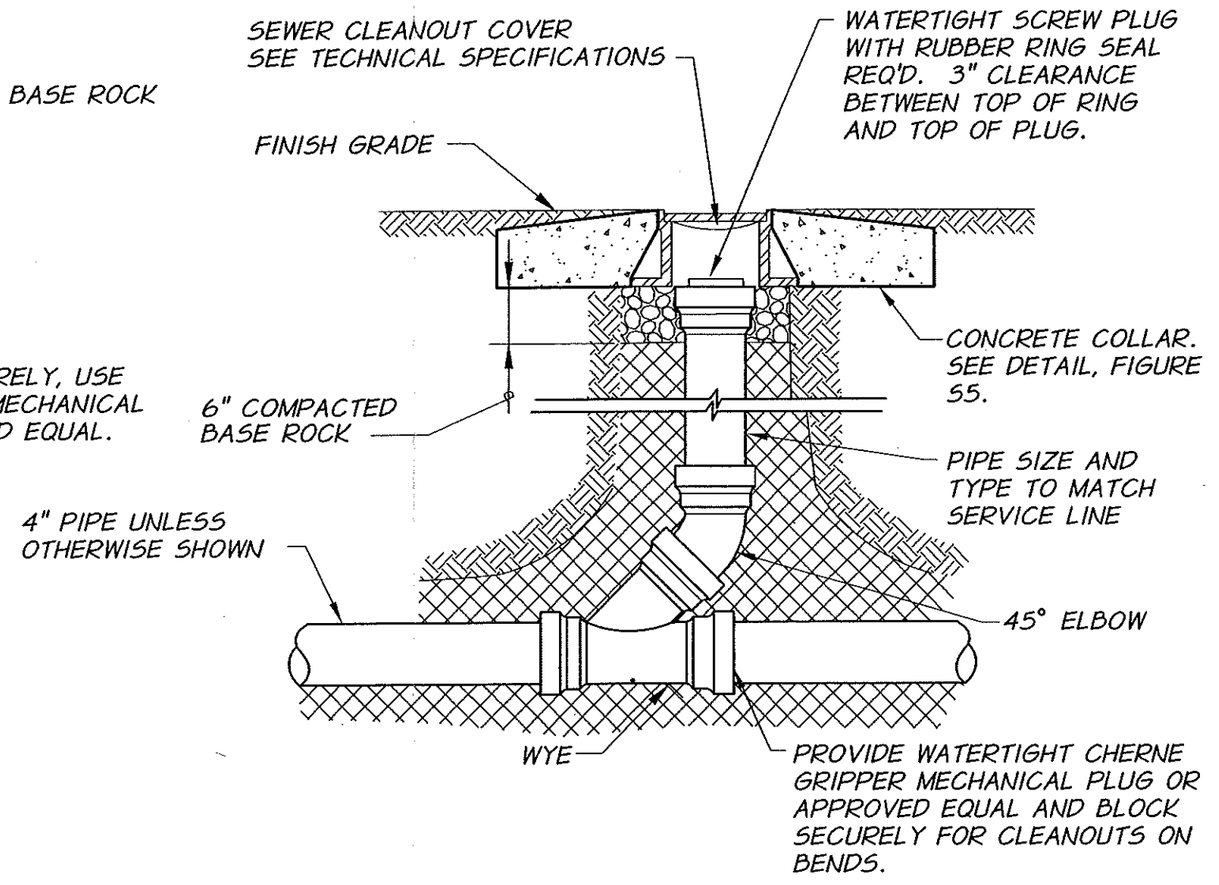
DROP PRECAST MANHOLE

FIGURE **S3**



GRAVITY SEWER MAIN LINE CLEANOUT

N.T.S.



SEWER SERVICE LINE CLEANOUT

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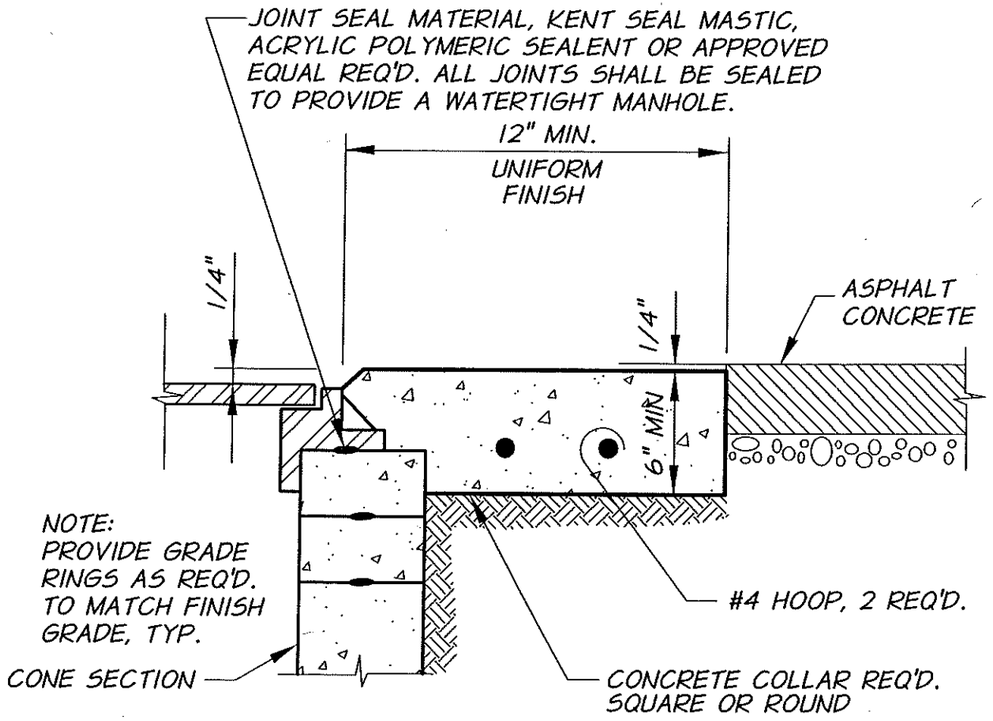
STANDARD SEWER DETAILS

SEWER CLEANOUTS

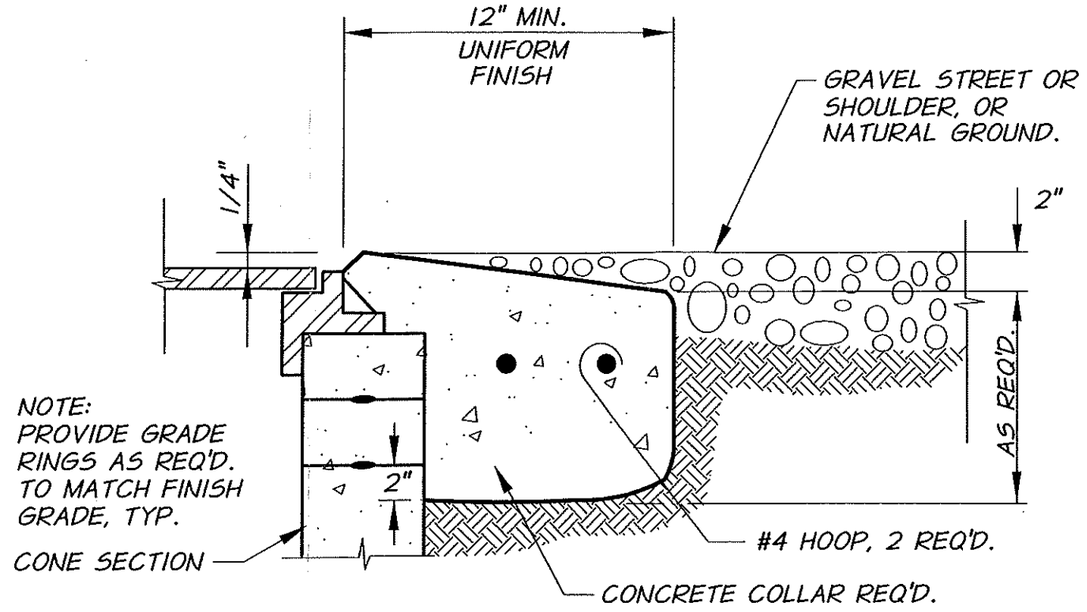
FIGURE **S4**



MANHOLE AND CLEANOUT CONCRETE COLLAR DETAIL

IN ASPHALT PAVEMENT

N.T.S.



MANHOLE AND CLEANOUT CONCRETE COLLAR DETAIL

IN GRAVEL STREETS OR NATURAL GROUND

N.T.S.

REQUIREMENTS FOR CONCRETE COLLARS:

1. CONCRETE: 3/4", 7 SACK, 4000 PSI @ 28 DAYS, 2" TO 4" SLUMP, 4-7% AIR.
2. COLLAR TO BE FORMED AND BE UNIFORMLY ROUND.
3. SMOOTH BROOMED FINISH REQ'D.
4. APPLY CONCRETE CURING COMPOUND
5. PROTECT FROM TRAFFIC FOR 4 DAYS MIN.

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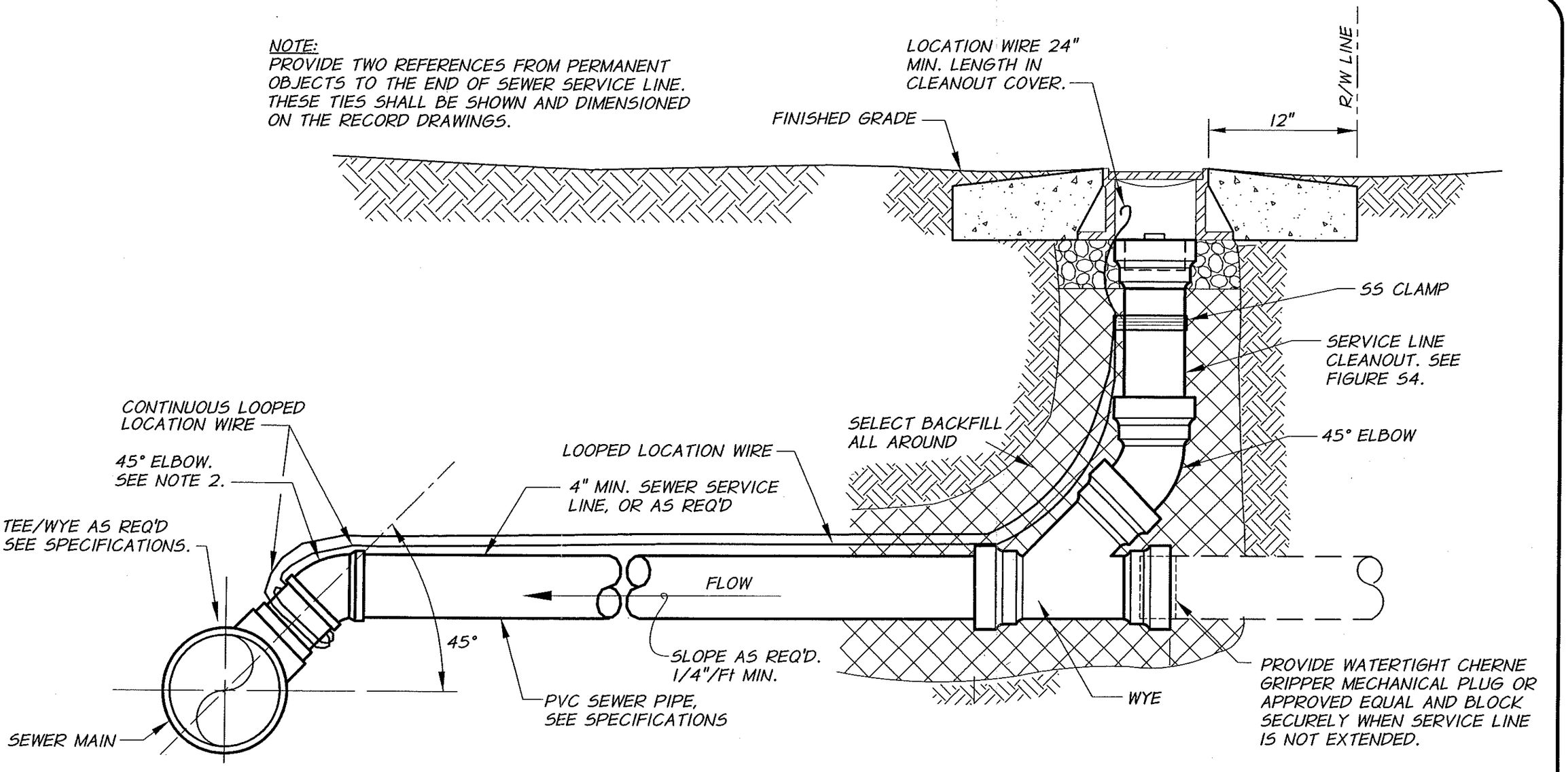
STANDARD SEWER DETAILS
MANHOLE AND CLEANOUT CONCRETE COLLAR DETAILS

FIGURE
S5

NOTE:
PROVIDE TWO REFERENCES FROM PERMANENT OBJECTS TO THE END OF SEWER SERVICE LINE. THESE TIES SHALL BE SHOWN AND DIMENSIONED ON THE RECORD DRAWINGS.



NOTES:
1. SERVICE LINE IS NOT NECESSARILY AT 90° TO SEWER MAIN. PROVIDE FITTINGS AS REQUIRED TO INSTALL SERVICE.
2. DEPTH OF SEWER MAIN MAY NOT ACCOMMODATE TEE/WYE 45° ANGLE ORIENTATION. CONTRACTOR SHALL HAVE ALTERNATE ALIGNMENT APPROVED BY CITY.

SEWER SERVICE LINE

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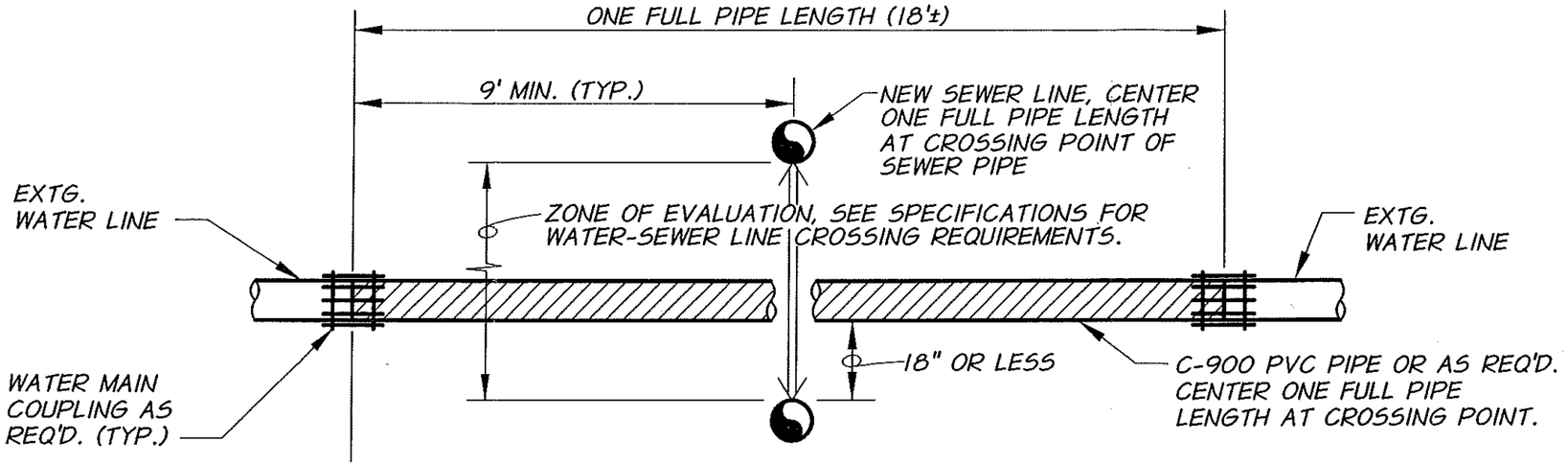
STANDARD SEWER DETAILS

SEWER SERVICE LINE

FIGURE **S6**



NOTE:

ALL BACK FILL IN AREA OF WATER-SEWER CROSSING TO A DEPTH 12" ABOVE THE TOP OF THE HIGHEST PIPE SHALL BE 3/4"-0 BASE ROCK COMPACTED TO 95% OF ASTM D-698 LABORATORY DENSITY.

WATER-SEWER CROSSING

(NEW SEWER LINE CONSTRUCTION)

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STANDARD SEWER DETAILS

WATER/SEWER CROSSING

FIGURE

S7