



**CITY OF HEMET  
PUBLIC WORKS DEPARTMENT**

# **STANDARD DRAWINGS**

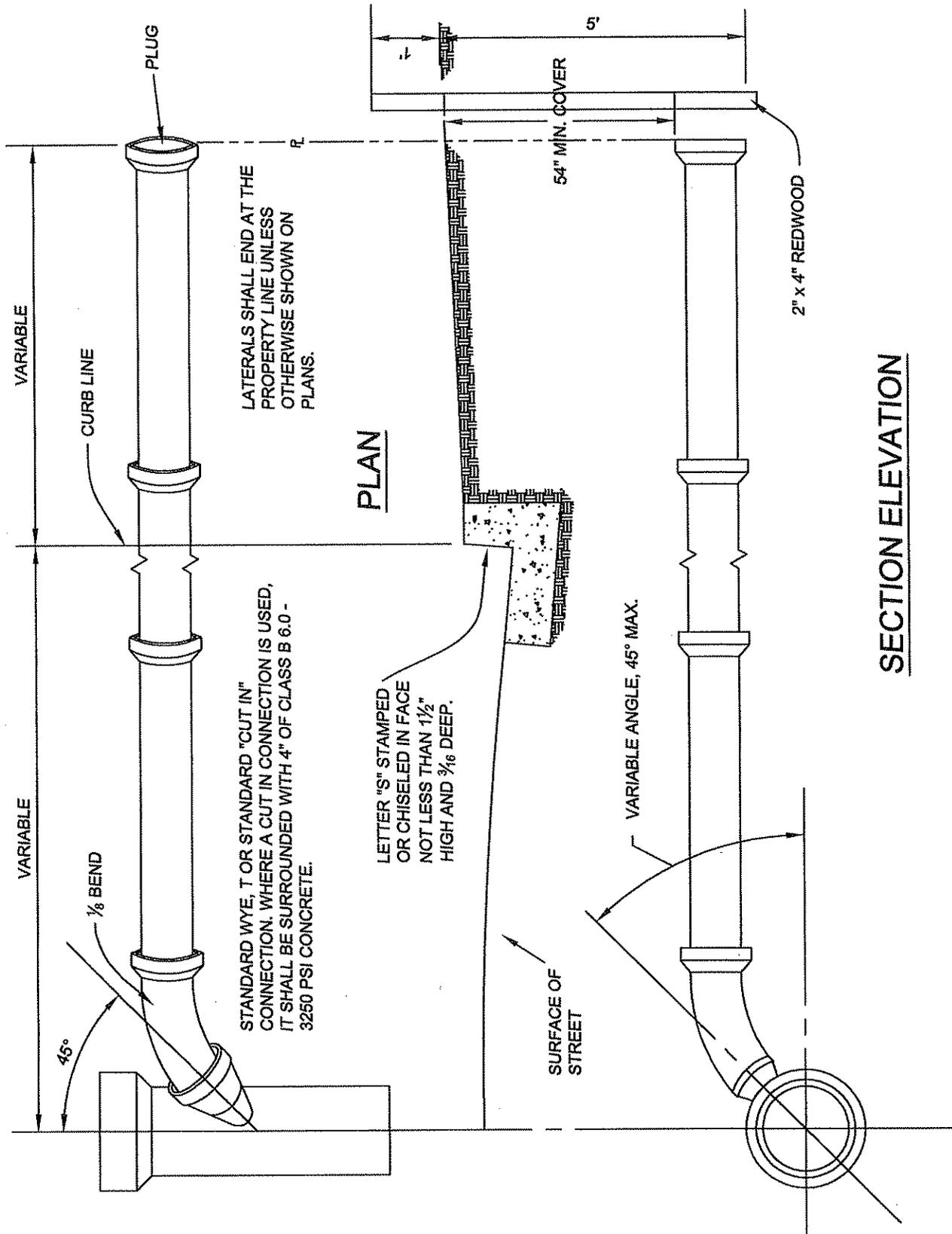
CITY OF HEMET PUBLIC WORKS DEPARTMENT

STANDARD DRAWINGS

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Text in **ITALICS** indicates 2011 revisions.



VARIABLE

CURB LINE

PLUG

LATERALS SHALL END AT THE PROPERTY LINE UNLESS OTHERWISE SHOWN ON PLANS.

PLAN

VARIABLE

1/8 BEND

45°

STANDARD WYE, T OR STANDARD "CUT IN" CONNECTION. WHERE A CUT IN CONNECTION IS USED, IT SHALL BE SURROUNDED WITH 4" OF CLASS B 6.0 - 3250 PSI CONCRETE.

LETTER "S" STAMPED OR CHISELED IN FACE NOT LESS THAN 1 1/2" HIGH AND 3/16" DEEP.

SURFACE OF STREET

VARIABLE ANGLE, 45° MAX.

2" x 4" REDWOOD

5'

54" MIN. COVER

SECTION ELEVATION



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 510 E. FLORIDA AVENUE  
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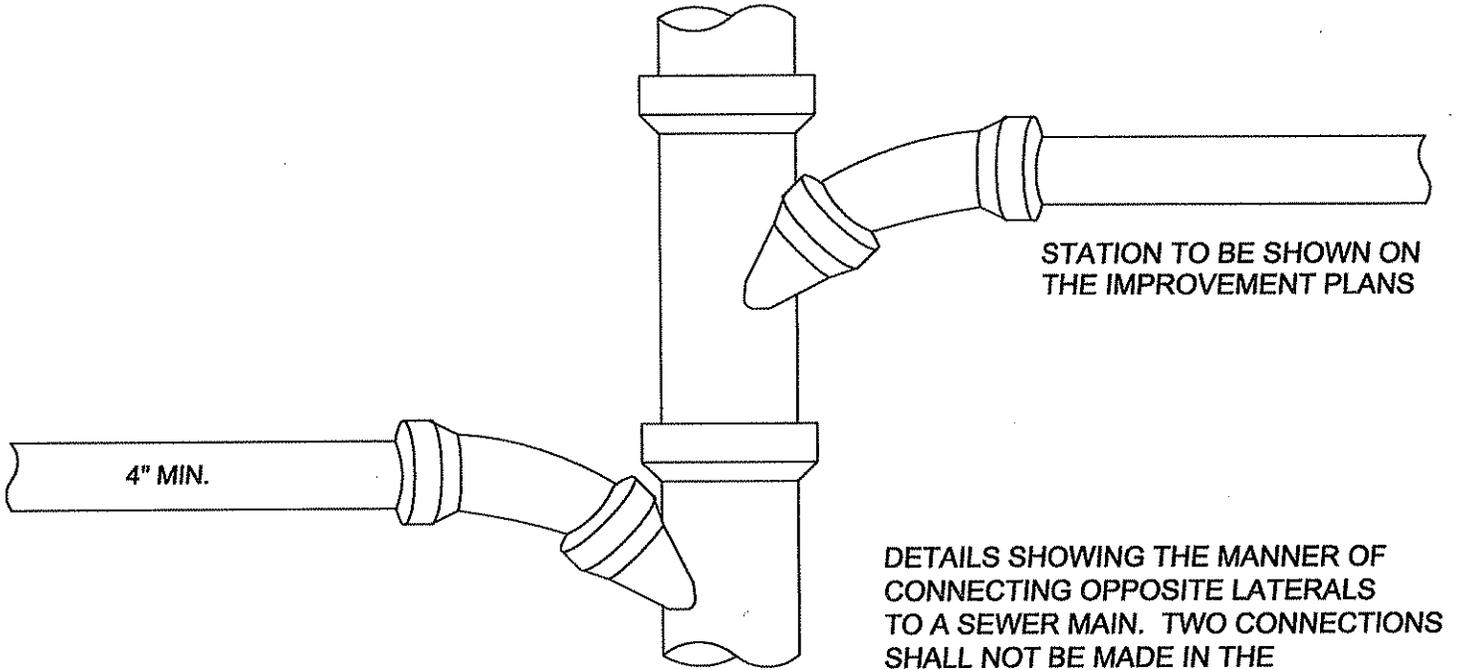
**SEWER LATERALS  
 HOUSE CONNECTION**

		MAR 2009
MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164		DATE
REVISIONS		
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1  
 OF 2 SHEETS  
**STANDARD NO.**  
**S-600**

**NOTE:**

IN NO CASE, SHALL A LATERAL CONNECT TO THE SEWER MAIN DIRECTLY ON TOP OF THE PIPE. SEWER LATERALS SHALL HAVE A MINIMUM SLOPE OF 1/4" : 1'. PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH PIPE MANUFACTURER'S RECOMMENDATIONS.



STATION TO BE SHOWN ON THE IMPROVEMENT PLANS

DETAILS SHOWING THE MANNER OF CONNECTING OPPOSITE LATERALS TO A SEWER MAIN. TWO CONNECTIONS SHALL NOT BE MADE IN THE SAME LENGTH OF PIPE.

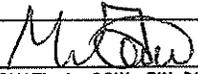
**NOTE:**

MINIMUM GROUND COVER AT PROPERTY LINE - 54 INCHES.



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**SEWER LATERALS  
HOUSE CONNECTION**

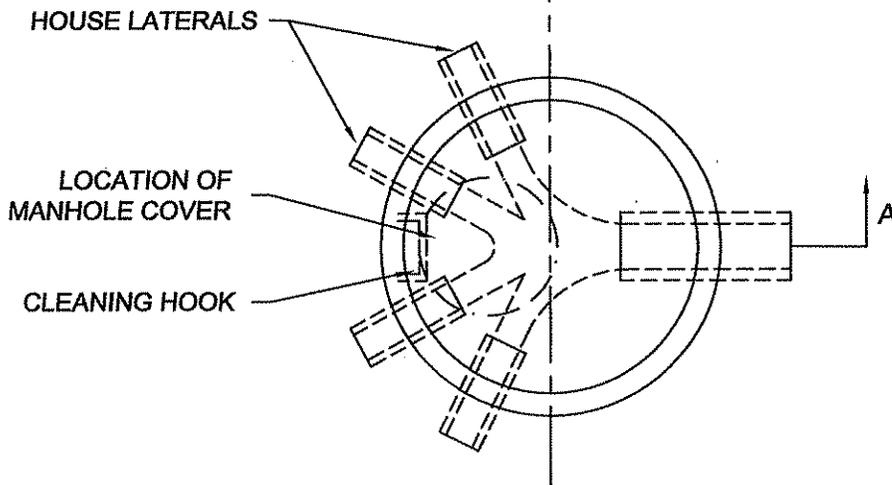
	MAR 2009
MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164	DATE
REVISIONS	
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**1**  
OF **2** SHEETS  
**STANDARD NO.**  
**S-600A**

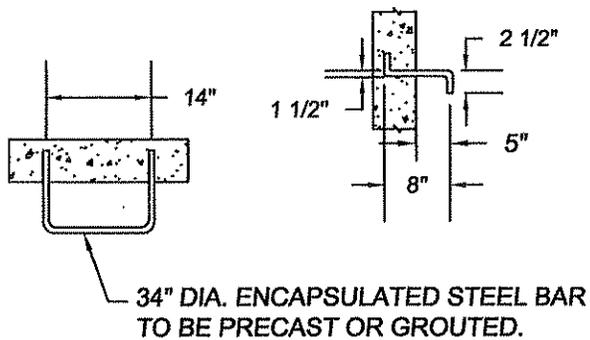




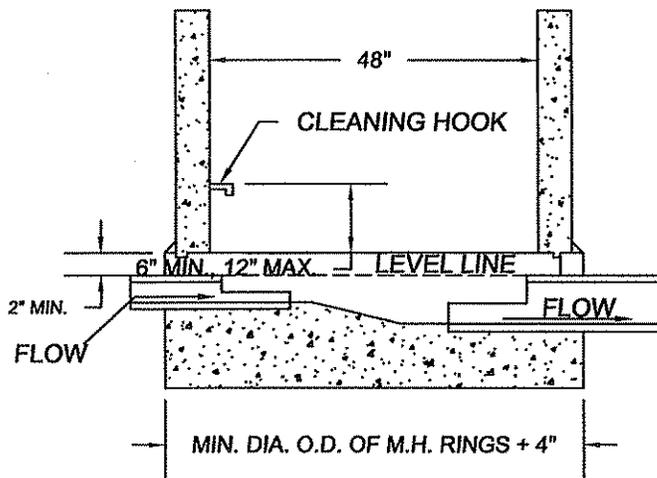
ALL LATERALS MUST BE  
PLACED UPSTREAM OF  
CENTERLINE OF MANHOLE.



**PLAN**  
TERMINUS MANHOLE WITH HOUSE LATERALS



**CLEANING HOOK DETAIL**



**NOTES:**

1. REFER TO STANDARD DRAWINGS OF MANHOLES FOR DETAIL PERTAINING TO MANHOLES ONLY.
2. THE MAXIMUM NUMBER OF LATERALS INTO A TERMINUS MANHOLE SHALL BE LIMITED TO SIX.
3. NO MANHOLE STEPS SHALL BE INSTALLED.



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**PRECAST  
CONCRETE TERMINUS MANHOLE**

	MAR 2009
MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164	DATE
REVISIONS	
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N.Beltran 2009	

**3**  
OF **3** SHEETS  
**STANDARD NO.**  
**S-601B**

**GREASE INTERCEPTORS**  
**RESTAURANTS OR SERVICE STATIONS**  
**MINIMUM CAPACITY ACCEPTABLE BY REGULATION**  
**750 GALLONS MINIMUM CAPACITY**

**SERVICE STATIONS : 750 GALLON MINIMUM**

**RESTAURANTS : 750 GALLON MINIMUM 0-50 SEATS**  
**1000 GALLON MINIMUM 50-100 SEATS**

**NO DOMESTIC WASTES (RESTROOM WASTES) ARE ALLOWED TO PASS THROUGH THE GREASE INTERCEPTOR.**

**ALL KITCHEN SINKS, DRAINS, DISHWASHER, AND GARBAGE GRINDERS SHALL BE CONNECTED TO PASS THROUGH THE GREASE INTERCEPTOR.**

**PRIOR TO BACKFILL, THE CITY INDUSTRIAL WASTE INSPECTOR MUST INSPECT THE INSTALLATION PLUMBING. PLEASE CALL TO MAKE AN APPOINTMENT.  
 PHONE # (951) 765-2300.**

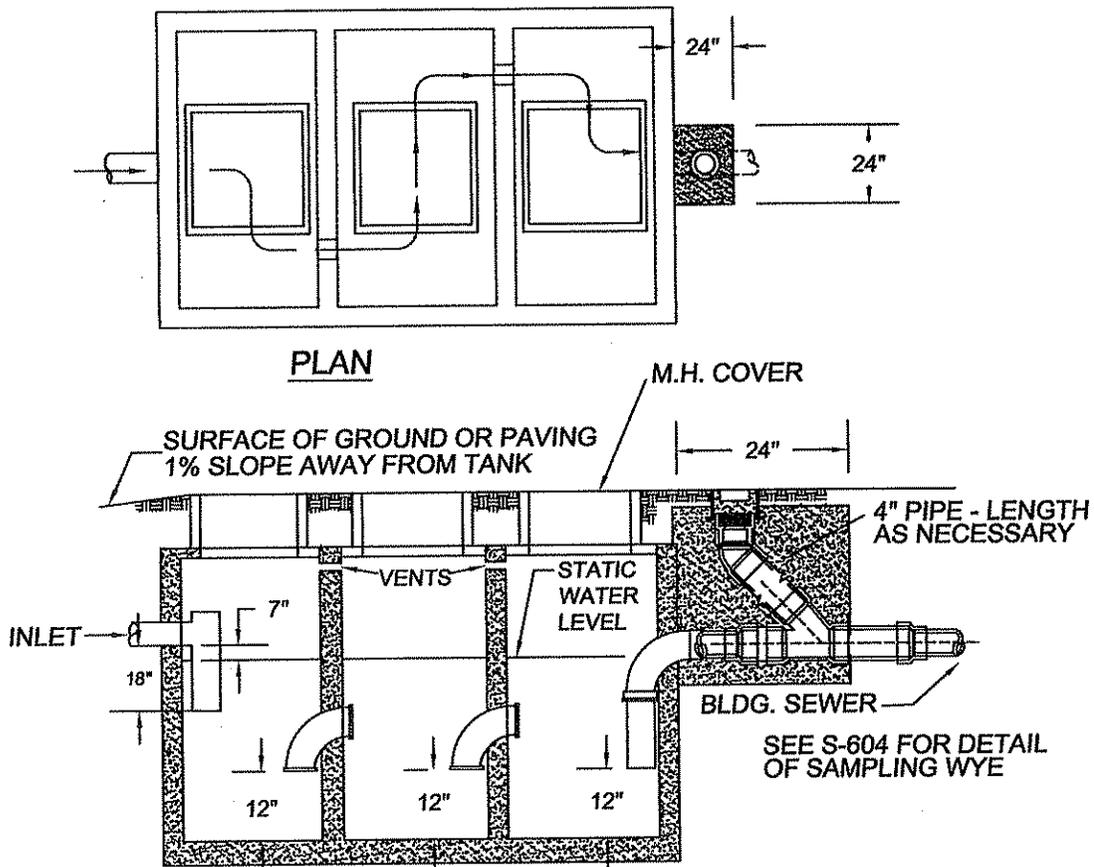


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**GREASE INTERCEPTORS**

 MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164	MAR 2009 DATE	1 OF 2 SHEETS
REVISIONS		<b>STANDARD NO.</b> <b>S-602</b>
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NOTE: TWO COMPARTMENT INTERCEPTOR IS ACCEPTABLE.

**SECTION**

**GENERAL NOTES**

1. THIS STRUCTURE TO BE INSTALLED OUTSIDE OF BUILDING % MAINTAINED FREE FOR INSPECTION AT ALL TIMES.
2. WHERE SUBJECT TO VEHICLE LOADENG, DESIGN ADEQUACY SHALL BE SUBSTANTIATED.
3. ALL SURFACE WATER MUST DRAIN AWAY FROM INTERCEPTOR TO EXCLUDE RAIN WATER FROM SEWER.
4. FLOW TO GREASE INTERCEPTOR SHALL EXCLUDE ALL SANITARY SEWAGE AND
5. BARREL DIAMETER OF SAMPLING WYE TO BE A MINIMUM OF 2" LARGER THAN BUILDING DISCHARGE LINE.
6. A SAMPLING BOX CAN BE AN ALTERNATIVE TO A SAMPLING WYE.

CAPACITIES REQUIRED	
SERVICE STATION ( NORMAL OPERATION )	750 GAL.
RESTAURANT 0 TO 50 SEAT CAPACITY	750 GAL.
51 TO 100 SEAT CAPACITY	1000 GAL.
101 OR GREATER TO BE SIZED BY CITY INDUSTRIAL WASTE INSPECTOR.	
"ALL NIGHT" FACILITIES: INCREASE REQUIRED CAPACITY BY A FACTOR OF 1.2 FOR INSTALLATIONS SERVING 24 HOURS PER DAY STATIONS OR RESTAURANTS.	

NOTE: EACH INSTALLATION IS SUBJECT TO REVIEW BY CITY ENGINEER AND EMWD FOR ADEQUATE CAPACITY PRIOR TO CONSTRUCTION.



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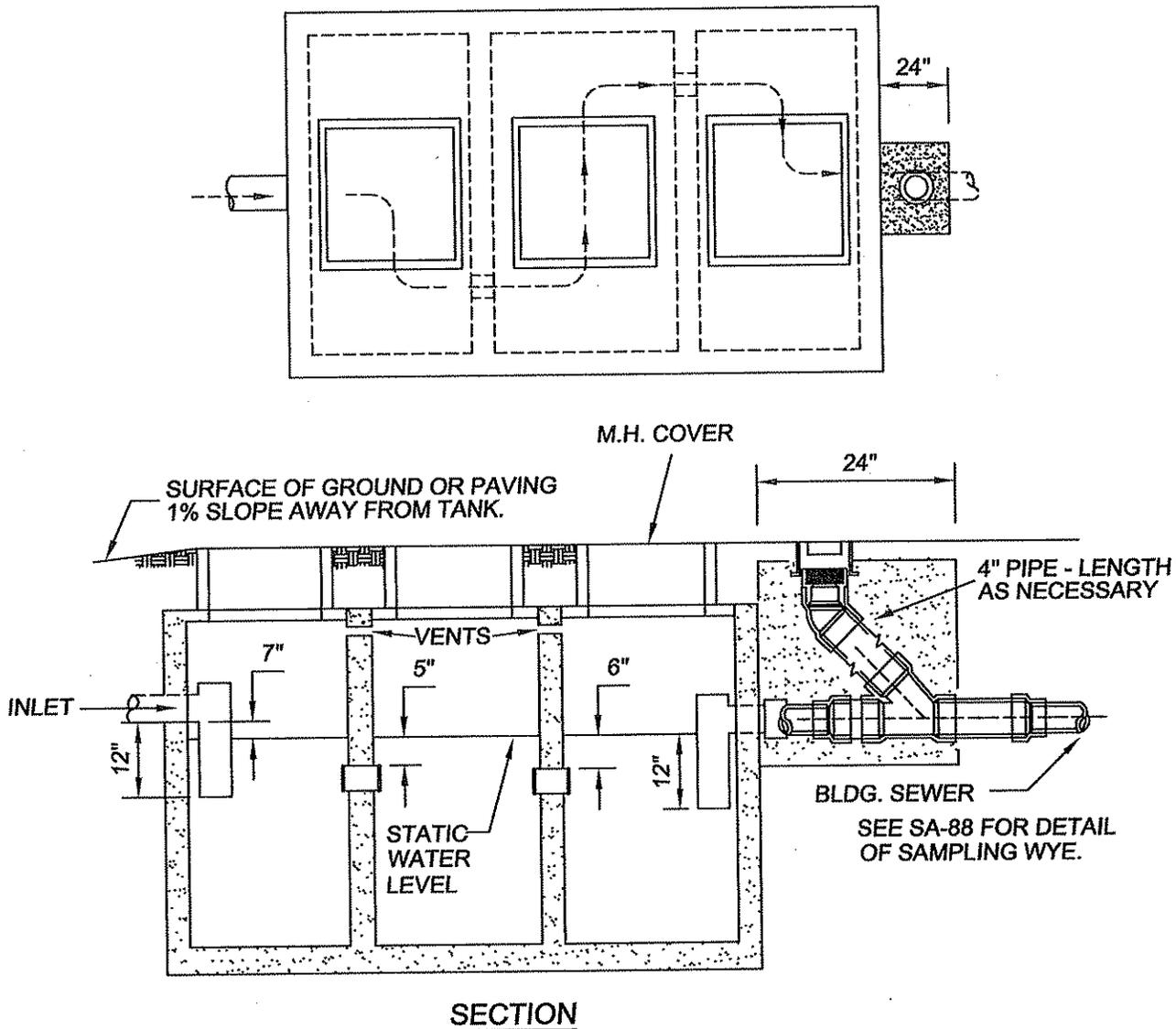
**GREASE INTERCEPTORS**

	MAR 2009
MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164	DATE
REVISIONS	
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N.Beltran 2009	

**2**  
 OF 2 SHEETS  
**STANDARD NO.**  
**S-602A**

## GENERAL NOTES

1. THIS STRUCTURE TO BE INSTALLED SO THAT IT IS ACCESSIBLE FOR MAINTENANCE OF INSPECTION AT ALL TIMES.
2. WHERE SUBJECT TO VEHICLE LOADING, DESIGN ADEQUACY SHALL BE SUBSTANTIATED.
3. ALL SURFACE WATER MUST DRAIN AWAY FROM INTERCEPTOR TO EXCLUDE RAIN WATER FROM SEWER.
4. FLOW TO SAND INTERCEPTOR SHALL EXUDE ALL SANITARY SEWAGE AND SURFACE DRAINAGE.
5. MINIMUM CAPACITY 750 GAL.
6. EACH INSTALLATION IS SUBJECT TO REVIEW BY CITY ENGINEER FOR ADEQUATE CAPACITY PRIOR TO CONSTRUCTION.
7. A SAMPLING BOX CAN BE AN ALTERNATIVE TO A SAMPLING WYE.

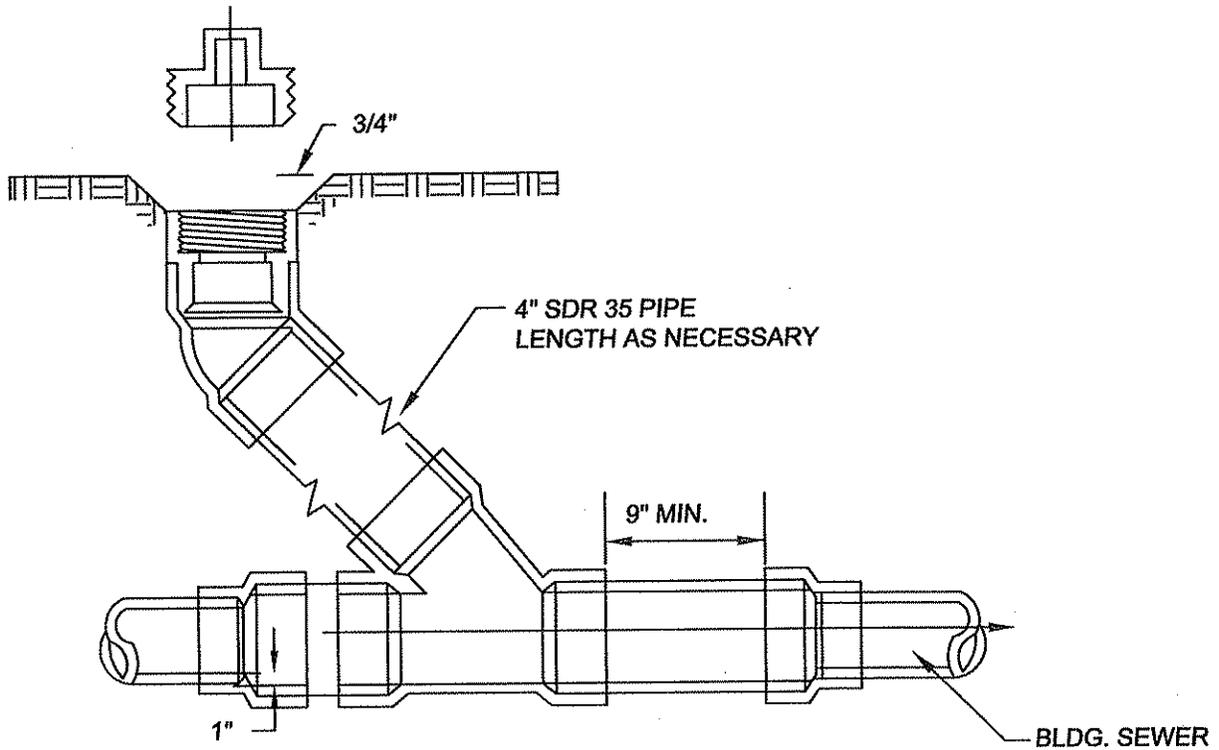


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## SAND INTERCEPTOR

<i>M. A. Gow</i>	MAR 2009
MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164	DATE
REVISIONS	
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N.Beltran 2009	

**1**  
 OF 1 SHEETS  
**STANDARD NO.**  
**S-603**



**NOTE:**

1. BARREL DIAMETER OF SAMPLING WYE TO BE A MINIMUM OF 2" LARGER THAN BLDG. DISCHARGE LINE.
2. DIAMETER OF RISER PIPE TO BE 4".
3. MUST BE ACCESSIBLE AT ALL TIMES TO CITY OF HEMET PERSONNEL.
4. NOT FOR USE IN TRAVELED WAYS.
5. IF NECESSARY TO PLACE CAP IN SIDEWALK USE FLUSH CAP.



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**SAMPLING WYE**

 MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164		MAR 2009 DATE	<u>1</u> OF 1 SHEETS
REVISIONS			STANDARD NO. <b>S-604</b>
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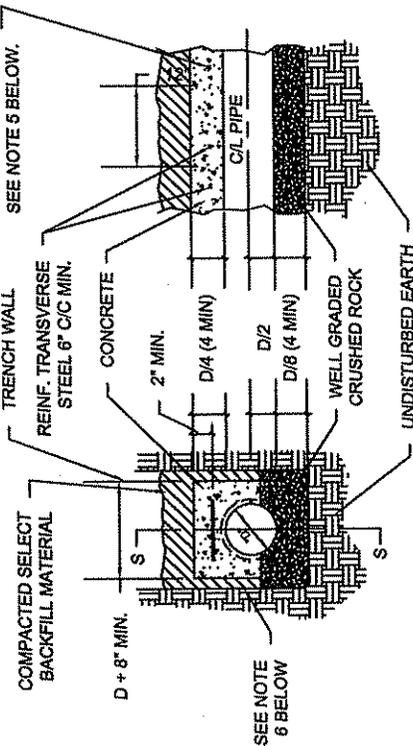


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**PIPE BEDDING**

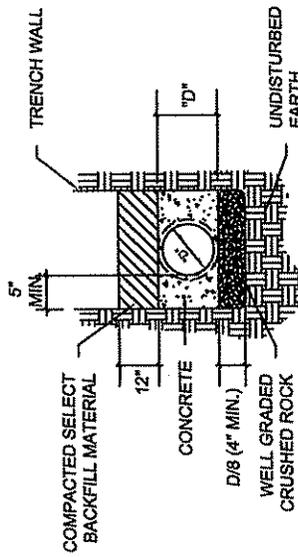
MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164		MAR 2009
REVISIONS		DATE
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1  
 OF 1 SHEETS  
**STANDARD NO. S-607**



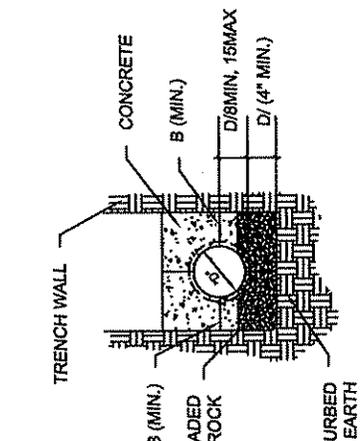
SECTION S - S

CLASS "AA" REINFORCED CONCRETE ARCH

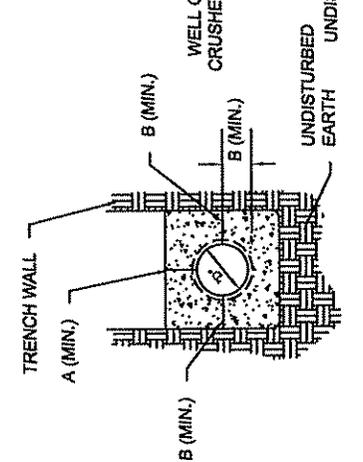


CLASS "A" SIDEGRADING

PIPE DIMENSIONS	"A"	"B"
I.D.	"A"	"B"
6"	5"	6"
8"	5"	6"
10"	5"	6"
12"	5"	6"
15"	5"	6"
18"	5"	6"
21"	6"	6"
24"	6"	6"
27"	7"	7"
30"	8"	8"
33"	9"	9"
36"	9"	9"
39"	10"	10"
42"	11"	11"



CONCRETE ENCASUREMENT NO. 2  
 NOTE: USE CONCRETE ENCASUREMENT NO. 2 UNLESS OTHERWISE REQUIRED BY THE ENGINEER, OR AS SHOWN ON THE CONTRACT DRAWINGS.

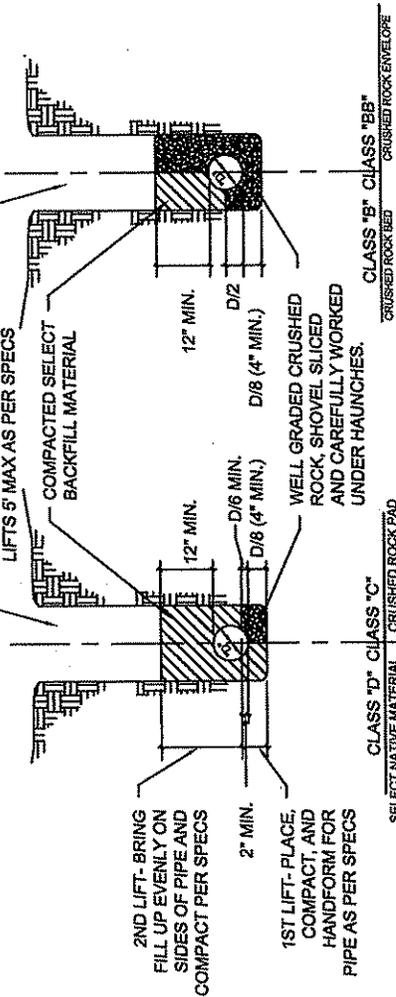


CONCRETE ENCASUREMENT NO. 1

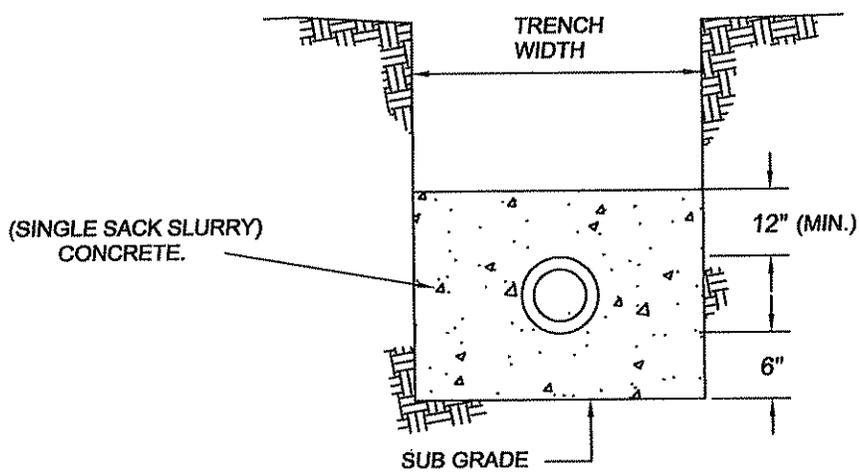
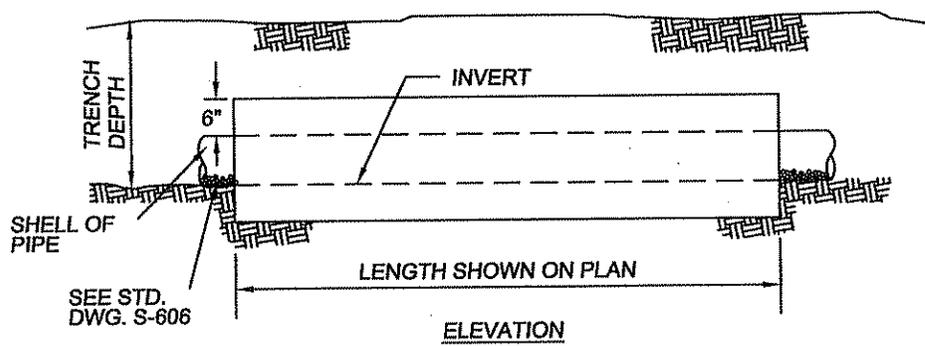
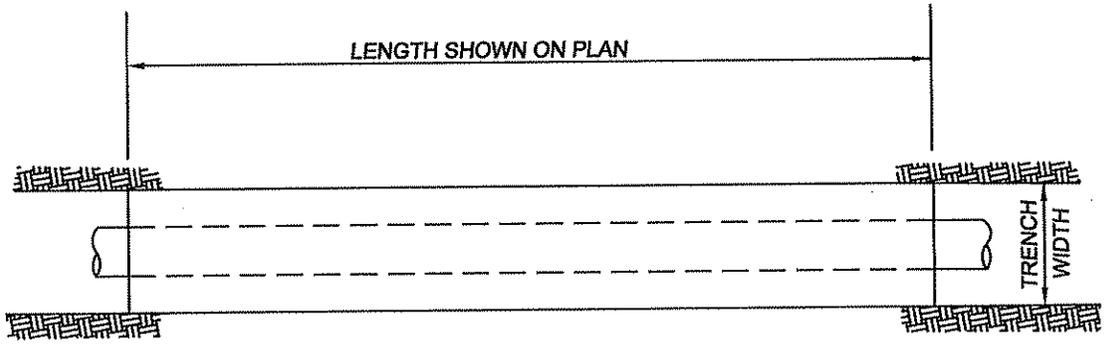
CRUSHED ROCK SIEVE ANALYSIS PER ASTM C33 SIZE NO. 67

100% PASSING	1"
90-100% PASSING	3/4"
20-55% PASSING	3/8"
0-10% PASSING	#4
0-5% PASSING	#8

NOTE: ALL COMPACTION ABOVE THE PIPE ZONE, WITHIN A ROAD RIGHT-OF-WAY, TO BE PER THE REGULATORY ROAD AGENCY OTHERWISE CONSOLIDATED AND/OR COMPACTED FILL-IN LIFTS 5" MAX AS PER SPECS



- NOTES:
1. CONCRETE ENCASUREMENT AND ARCHES SHALL BE INSTALLED AS REQUIRED BY THE SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.
  2. ALL CONCRETE SHALL BE CLASS "A" CONCRETE.
  3. ALL CRUSHED ROCK SHALL MEET THE REQUIREMENTS OF ASTM C33, SIZE NO. 67.
  4. TWO APPROVED FLEXIBLE JOINTS SHALL BE USED AT EACH END OF SEWER PIPE ENCASEMENTS PURSUANT TO STD. DWG X-XXX
  5. "B" = RATIO OF AREA OF STEEL TO AREA OF CONCRETE PER LINEAL FOOT. (D/4X12" OR MIN 4"X12" - CONCRETE AREA).
  6. CONCRETE CAN BE POURED AGAINST TRENCH WALL OR MAY BE FORMED.
  7. CONSOLIDATING BACKFILL MATERIAL BY WATER FOLDING NOT PERMITTED IN CLAY SOILS.



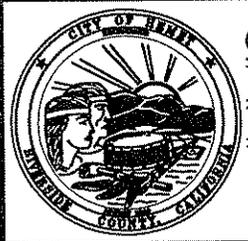
8" FOR ESTIMATED VOLUME OF MATERIAL.

6" MIN. - 8" MAX. 6" TO 12" PIPE INCLUSIVE.

6" MIN. - 10" MAX. 15" PIPE AND ABOVE.

**SECTION**

CONCRETE ENCASEMENT FOR SEWERS SHALL BE USED WHEN INVERT DEPTH IS UNDER 3', OR OVER 22', AS SHOWN ON PLAN.

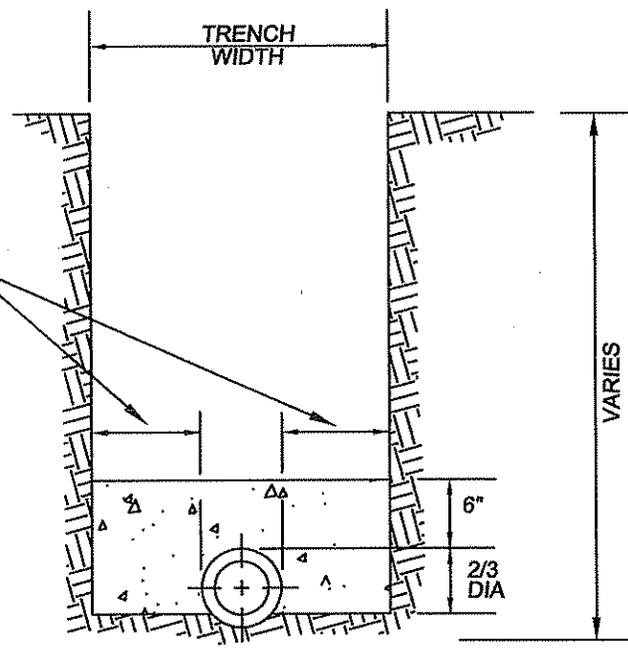
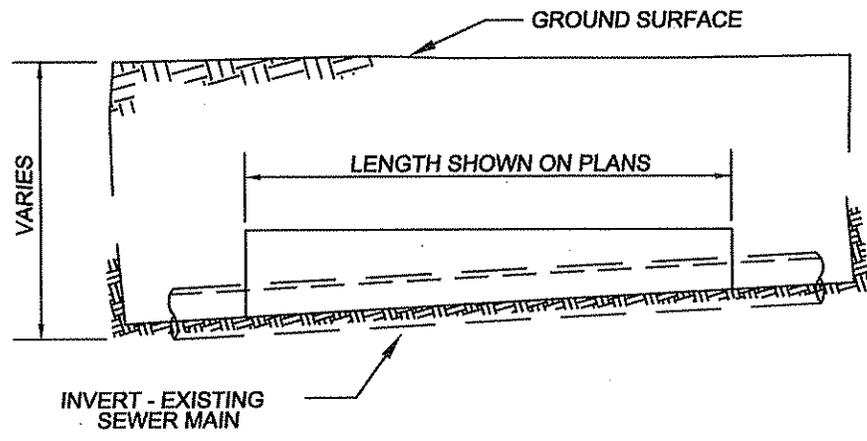
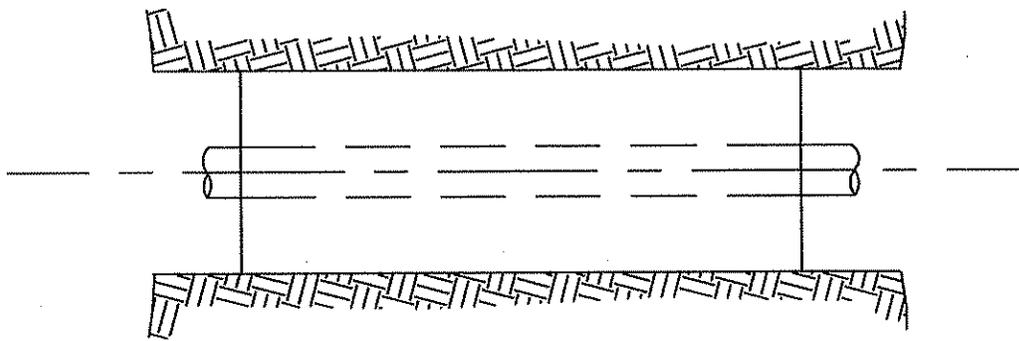


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**CONCRETE ENCASEMENT FOR SEWER PIPE**

<i>M. Gow</i>	MAR 2009
MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164	DATE
REVISIONS	
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1  
 OF 1 SHEETS  
**STANDARD NO. S-608**



FOR ESTIMATED VOLUME OF MATERIALS  
 USE MAXIMUM FOR INDICATED PIPE SIZE.  
 8" MIN. TO 12" PIPE INCLUSIVE.  
 8" MIN. -10" MAX. -15" PIPE AND ABOVE.

**NOTE:**

CONCRETE ENCASEMENT(SINGLE SACK SLURRY) FOR EXISTENT SEWER SHALL BE USED  
 WHEN INVERT DEPTH IS 4' OR LESS OR 15' OR GREATER AS SHOWN ON PLANS.



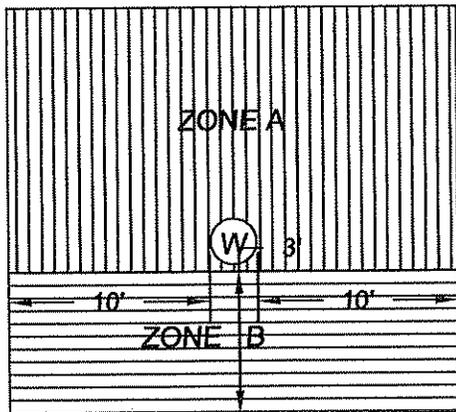
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**CONCRETE ENCASEMENT  
 FOR EXISTING SEWER PIPE**

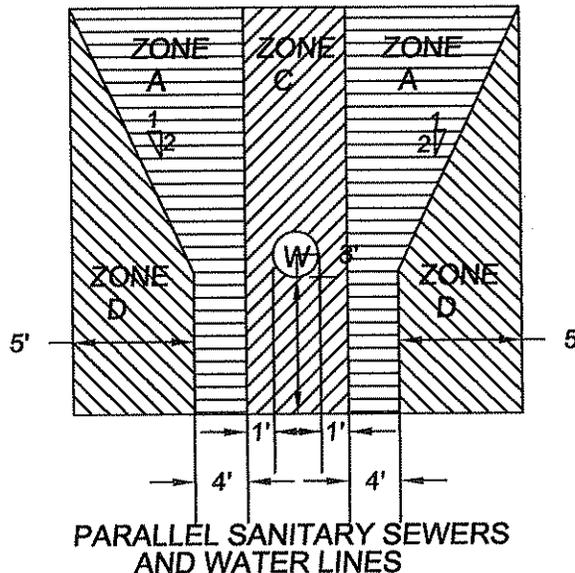
<i>M. A. Gow</i>	MAR 2009
MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164	DATE
REVISIONS	
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1  
 OF 1 SHEETS

**STANDARD NO.  
 S-609**



CROSSING SANITARY SEWERS AND WATER LINES



PARALLEL SANITARY SEWERS AND WATER LINES

**NOTE:**

Ⓜ INDICATES PRESSURE WATER MAIN FOR POTABLE WATER  
 DIMENSIONS ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.

SANITARY SEWERS AND WATER LINES SEPARATED BY LESS THAN 10 FEET  
 WITHIN ANY OF THE ABOVE INDICATED ZONES WILL REQUIRE SPECIAL SEWER  
 CONSTRUCTION AS SHOWN BELOW.

ZONE	SEWER CONSTRUCTION REQUIREMENTS
A	SDR 35 PIPE ONLY 20' SLEEVE CENTERED OVER WATERLINE AND CONCRETE ENCASED (5 SACKS).
B	SDR 35 PIPE ONLY 20' SLEEVE CENTERED UNDER WATERLINE AND CONCRETE ENCASED (5 SACKS).
C	NO SANITARY SEWERS PERMITTED.
D	ZONE "A" OR ZONE "B" CONSTRUCTION METHODS.

NOTE: IN CASE OF CONFLICT THE FINAL AUTHORITY SHALL BE THE STATE OF CALIFORNIA, DEPARTMENT OF HEALTH.



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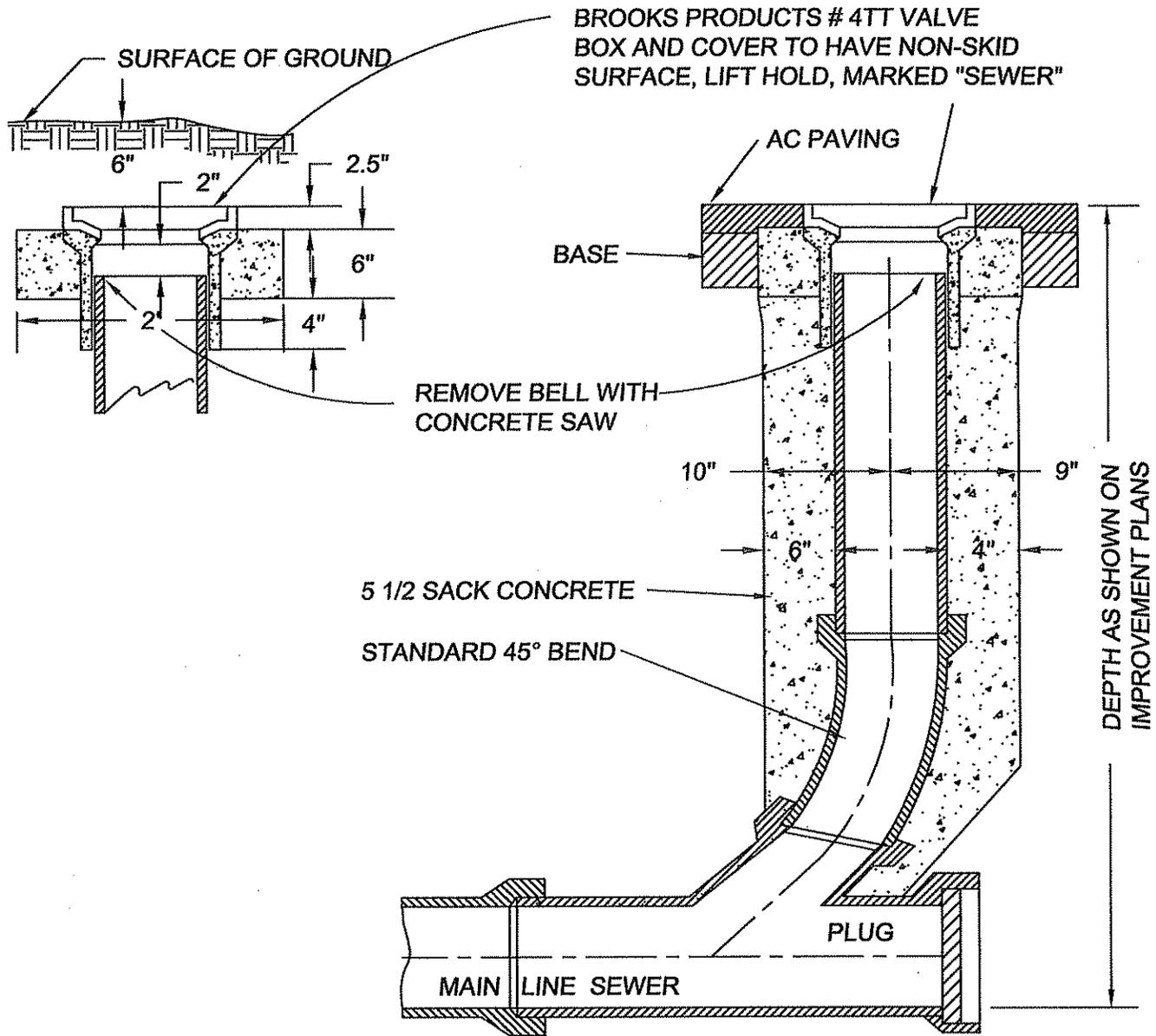
**SEPARATION REQUIREMENTS FOR SEWAGE AND WATER SUPPLY FACILITIES**

*M. A. Gow*  
 MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164  
 MAR 2009  
 DATE

REVISIONS

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 N.Beltran 2009

1  
 OF 1 SHEETS  
**STANDARD NO.**  
**S-610**



**NOTES:**

1. CENTER BOX OVER PIPE (INSTALL AFTER PAVING), PAINT UPPER SIDE OF COVER WITH ONE COAT OF FULLER HEAVY DUTY ENAMEL NO. 112-15 BRIGHT ORANGE OR EQUAL.
2. CLEANOUT PIPE MUST BE SAME DIAMETER AS MAIN LINE SEWER.
3. PLUGS SHALL BE CEMENTED IN PLACE WITH CEMENT MORTAR OR SHALL BE NEOPRENE PLUG OR APPROVED EQUAL.



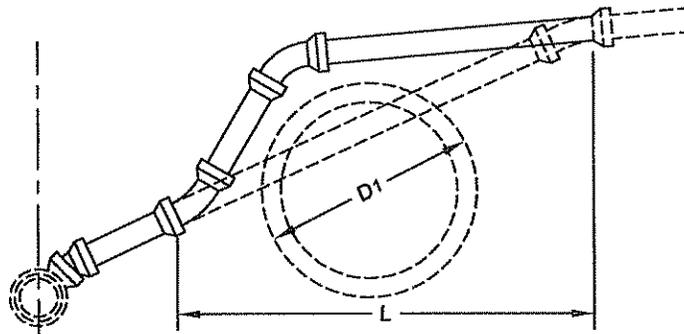
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**STANDARD CLEANOUT**

<i>Michael A. Gow</i>	MAR 2009	1 OF 1 SHEETS
MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164	DATE	
REVISIONS		STANDARD NO. <b>S-611</b>
N:\PW4100\COH_STDS\REVISIONS\SEWERIS-611.dwg		N.Beltran 2009

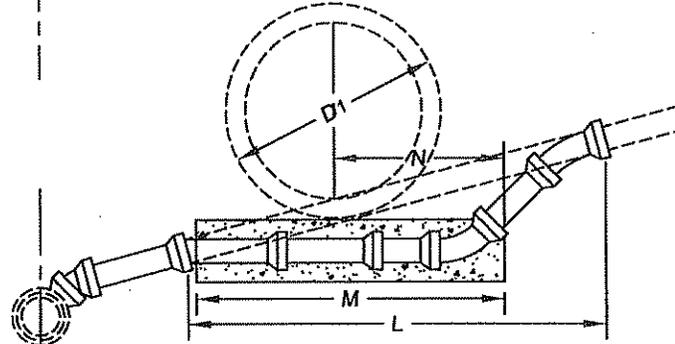
**CASE - A**

ABOVE STORM DRAIN TO HOUSE  
CONNECTION-SPECIALS  
REQUIRED: 2-4"1/8 BENDS.  
SDR 35



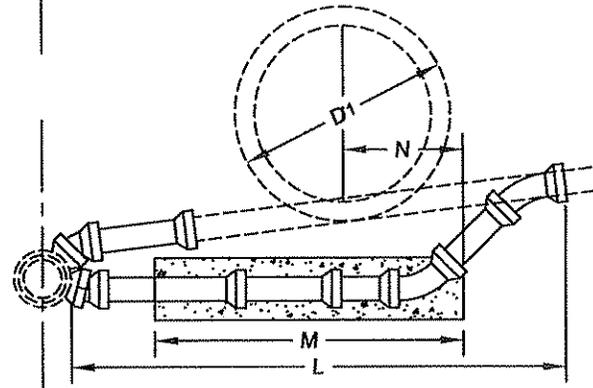
**CASE - B**

BELOW STORM DRAIN TO HOUSE  
CONNECTION-SPECIALS REQUIRED:  
2-4"1/8 BENDS.  
SDR 35



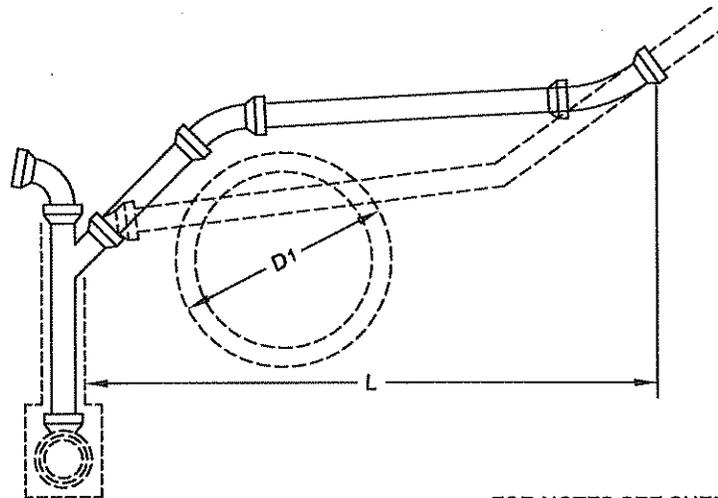
**CASE - C**

BELOW STORM DRAIN TO FLAT  
SADDLE-SPECIALS REQUIRED:  
3-4"1/8 BENDS, 1-SADDLE.  
SDR 35



**CASE - D**

ABOVE STORM DRAIN TO  
CHIMNEY-SPECIALS REQUIRED:  
2-4"1/8 BENDS.  
SDR 35



FOR NOTES SEE SHEET S-612B



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**REMODELING DETAILS  
HOUSE SEWER CONNECTIONS**

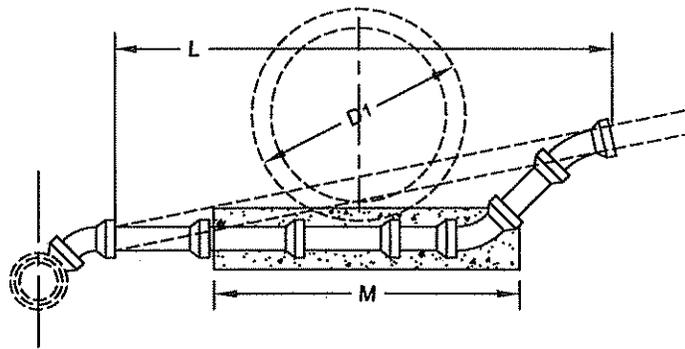
*Michael A. Gow*  
MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164  
MAR 2009  
DATE

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OF 3 SHEETS  
**STANDARD NO.  
S-612**

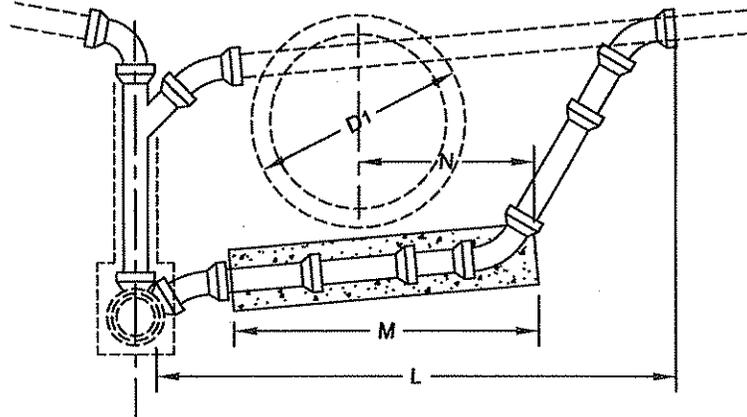
**CASE - E**

BELOW STORM DRAIN TO  
WYE-SPECIALS REQUIRED:  
3-4"1/8 BENDS.  
SDR 35



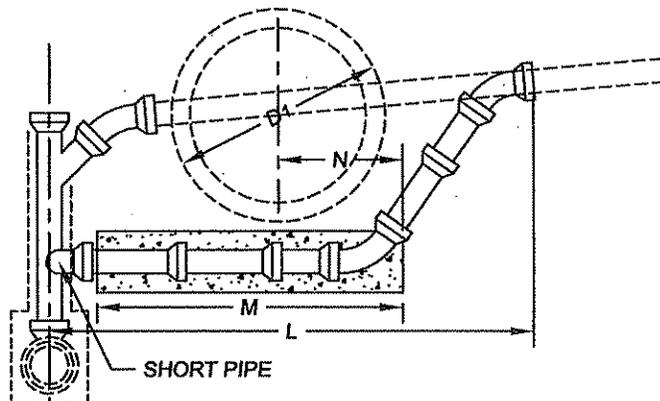
**CASE - F**

BELOW STORM DRAIN TO  
SADDLE-SPECIALS  
REQUIRED: 3-4"1/8 BENDS,  
1 SADDLE  
SDR 35



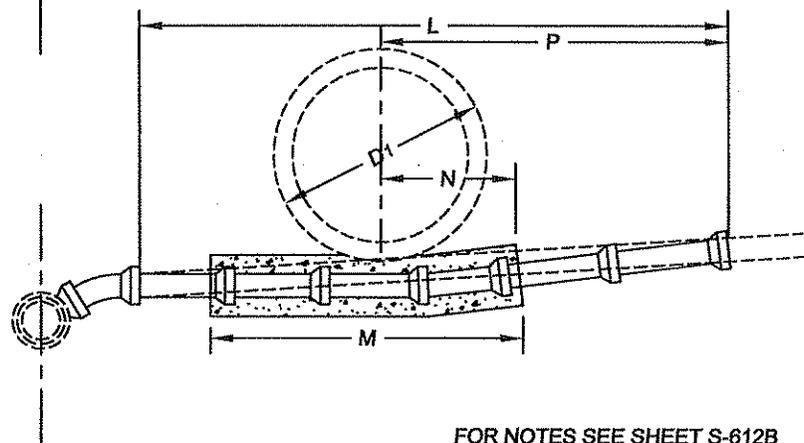
**CASE - G**

BELOW STORM DRAIN TO  
CHIMNEY-SPECIALS  
REQUIRED: 2-4"1/8 BENDS.  
SDR 35



**CASE - H**

BELOW STORM DRAIN TO  
HOUSE CONNECTION.  
SLOPE SLIGHTLY  
MODIFIED.  
SDR 35



FOR NOTES SEE SHEET S-612B



**City of Hemet**  
**PUBLIC WORKS DEPARTMENT**  
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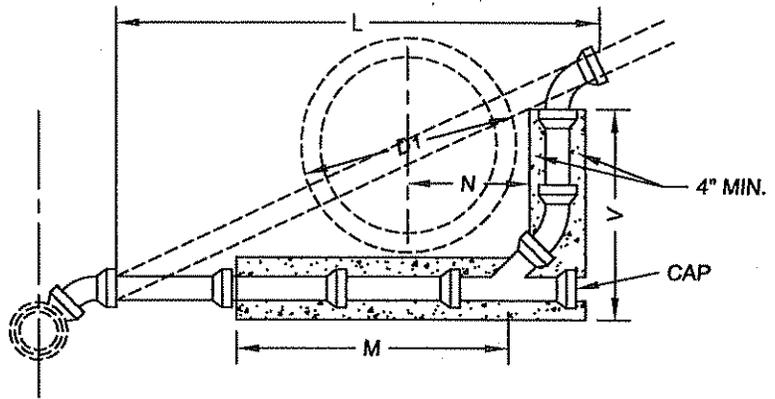
<b>REMODELING DETAILS</b>		
<b>HOUSE SEWER CONNECTIONS</b>		
<i>M. A. Gow</i>	MAR 2009	
MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164	DATE	
REVISIONS		
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**STANDARD NO.**  
**S-612A**

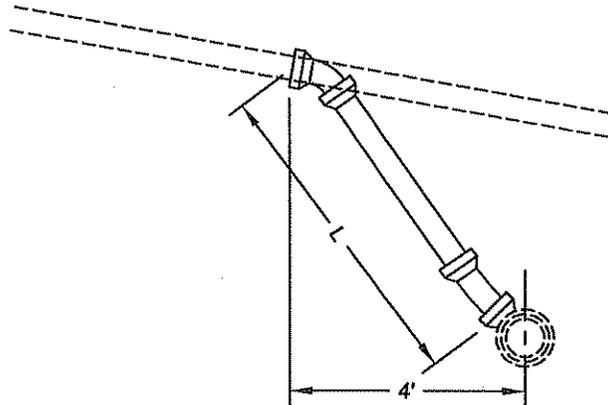
**CASE - I**

BELOW STORM DRAIN TO WYE-SPECIALS REQUIRED:  
3-4"1/8 BENDS, 1-4"x4" WYE.  
SDR 35 OR ABS

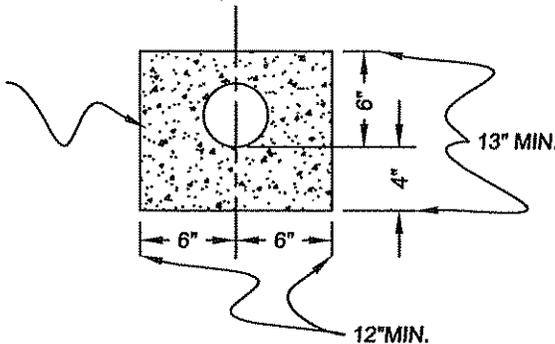


**CASE - R**

CONNECTION WITH NEW SEWER-SPECIALS REQUIRED:  
2-4"1/8 BENDS.  
SDR 35 OR ABS



CROSS SECTION OF CONCRETE REINFORCEMENT FOR 4" PIPE.



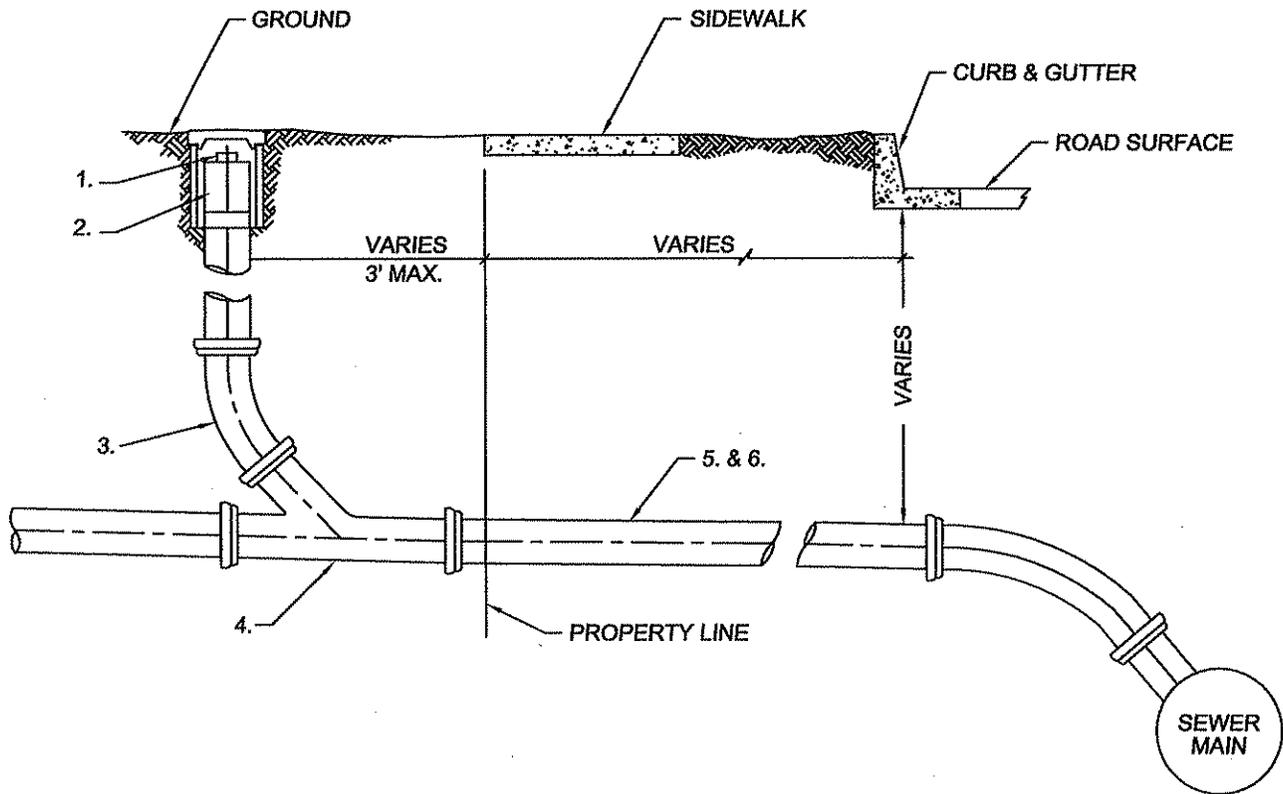
**NOTES**

1. EXISTING PIPES ARE INDICATED BY BROKEN LINES.
2. PIPES TO BE CONSTRUCTED ARE INDICATED BY FULL LINES.
3. ALL PIPES SHALL BE 4" INTERNAL DIAMETER, OR SHALL MATCH EXISTING LATERAL.
4. ALL BENDS SHALL BE 4"-1/8 BENDS UNLESS SPECIFIED OTHERWISE.
5. CONCRETE REINFORCEMENT, CROSS SECTION SHOWN SHEET S-612B, SHALL BE USED ON ALL PIPES TO BE CONSTRUCTED UNDER STORM DRAIN, TOP PORTION WITHIN 1" OF STORM DRAIN TO BE OMITTED.
6. DIMENSIONS:  
L IS SPECIFIED ON PLAN AS THE AVERAGE TOTAL LENGTH.  
 $M = (D1 + 24")$  LESS ENOUGH TO AVOID A FRACTION OF A FOOT.  
 $N = \frac{1}{2}M$ , EXCEPT WHERE SPECIFIED OTHERWISE ON PLAN.  
P, USED FOR CASE-H, IS SPECIFIED WHERE L DOES NOT EXTEND TO THE BEND.  
V, USED FOR CASE-I, IS SPECIFIED TO THE NEAREST FOOT AND IN SUMMARY, IS ITEMIZED AS CONCRETE REINFORCEMENT FOR 6" PIPE.
7. A 4" SADDLE, WHERE USED, SHALL BE CONNECTED TO THE PIPE CONSTITUTING THE EXISTING WYE OR TEE, OR TO THE NEXT LOWER PIPE LENGTH.



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<b>REMODELING DETAILS</b>		
<b>HOUSE SEWER CONNECTIONS</b>		
<i>M. A. Gow</i>	MAR 2009	<b>3</b>
MICHAEL A. GOW, PW DIRECTOR/CITY ENG. R.C.E. 54164	DATE	OF 3 SHEETS
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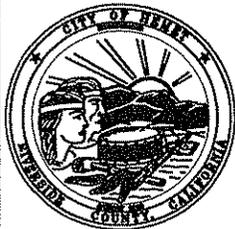


**MATERIAL LIST**

1. SOUTH BAY FOUNDRY #B52, OR AS REQUIRED, VALVE BOX MARKED SEWER OR EQUAL.
2. THREADED CAP WITH A SQUARE NUT.
3. MIN. 3" SDR 35 OR ABS SEWER PIPE PER BUILDING DEPT.
4. WYE PER UNIFORM BUILDING CODE.
5. MIN. 4" SDR 35 SEWER PIPE, OR AS SHOWN ON PLANS.
6. MIN. OF SDR35 PVC PER CITY OF HEMET STANDARDS.

**NOTES**

1. PLACE CLEANOUT A MAX. OF 3' BEHIND PROPERTY LINE.
2. LID MUST BE CAST IRON FOR LOCATING PURPOSES, MARKED 'SEWER'.



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**PROPERTY LINE  
 SEWER CLEANOUT**

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<b>S-613</b>