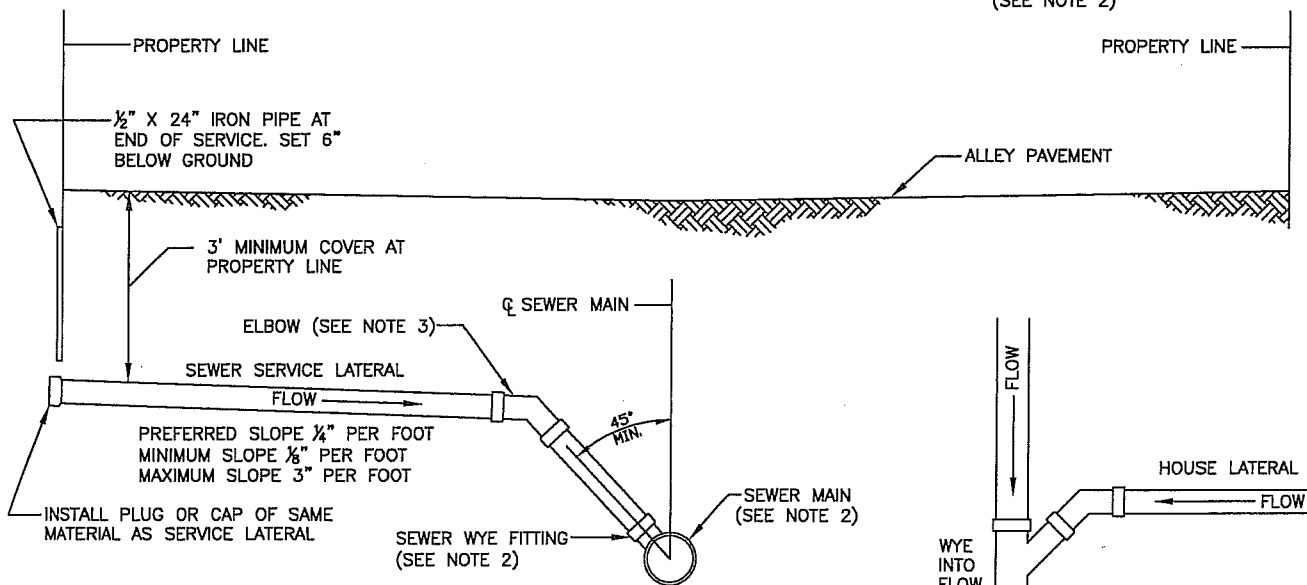


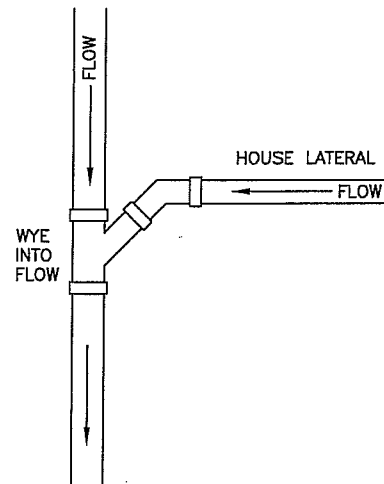
STREET LOCATION

N.T.S.



ALLEY LOCATION

N.T.S.



PLAN VIEW

N.T.S.

NOTES:

1. APPROVED PIPE MATERIALS
P.V.C. - A.S.T.M. D3034-T3PSIG SDR-35
2. FOR EXISTING MAINS, INSTALL WITH DOUBLE STRAP 45° SADDLE AND MATCH EXISTING SEWER MAIN MATERIAL, OR CONSTRUCT AS DIRECTED BY THE ENGINEER. CORE HOLE IN THE MAIN SHALL MATCH SIZE AND SHAPE OF SADDLE WYE. SEE STD. DWG. S-1A.
3. SELECT PRE-MANUFACTURED ELBOW ANGLE TO MATCH FIELD CONDITIONS.



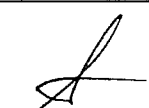



CITY OF CLOVIS

DWG NO.

S-1

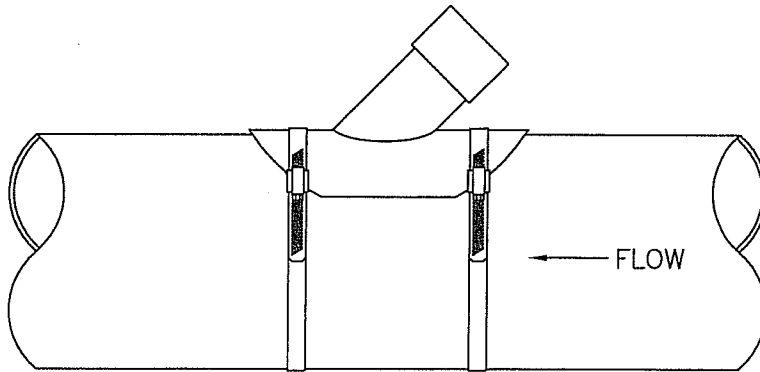
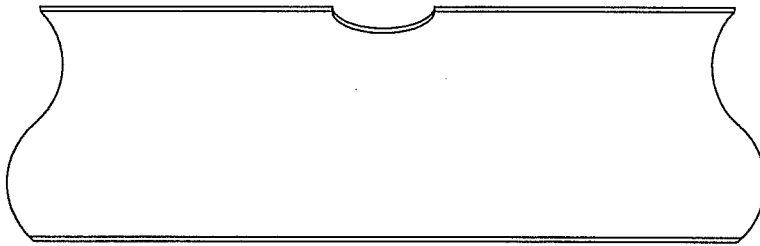
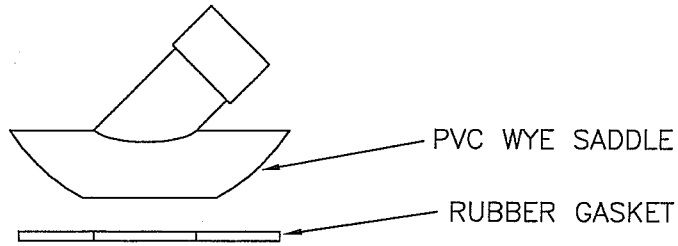
4" & 6" SEWER SERVICE LATERALS

REF. STD. SPECIFICATIONS SECTION 64

APPROVED BY:	NO.	REVISED	BY	APPROVALS	SCALE: NTS
CITY ENGINEER 	---	03-13-09	BGJ	CM  DRU  PUD 	DRAWN BY: BGJ
	DATE: 6/29/09				SHEET 1 OF 1

NOTE:

USE WYE GASKET TO TRACE SIZE AND SHAPE OF OPENING ONTO PIPE. REMOVE ALL BURRS FROM OPENING.



ATTACH WYE SADDLE WITH 2 STAINLESS STEEL BANDS PER MANUFACTURERS SPECIFICATIONS.







CITY OF CLOVIS

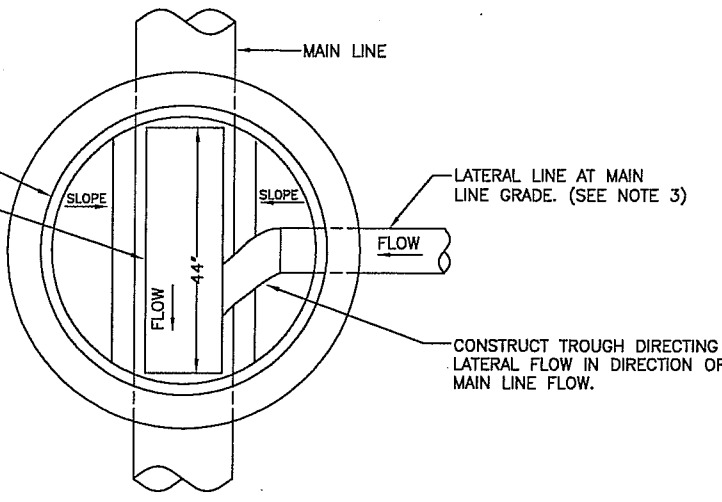
DWG NO.
S-1A

TAPPING SADDLE ASSEMBLY

REF. STD. SPECIFICATIONS
SECTION 64

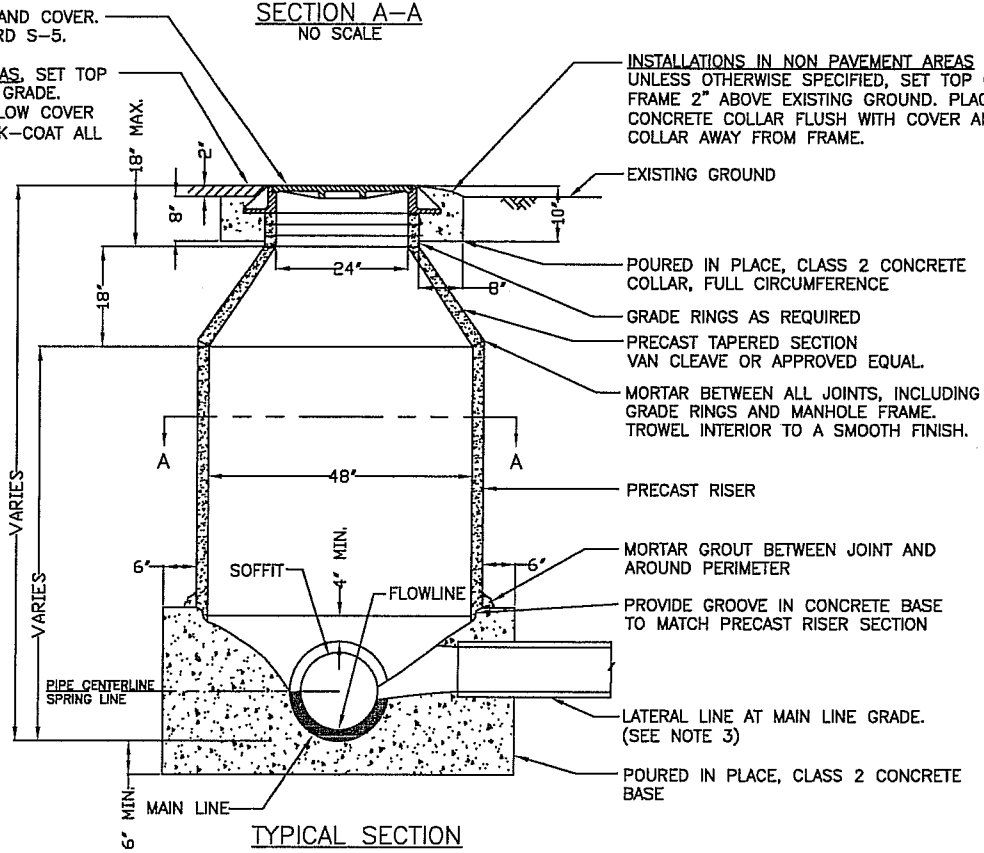
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CITY ENGINEER 		03-13-09	BGJ	CM  DRU  PUD 	DRAWN BY: BGJ
	DATE: 6/29/09				SHEET 1 OF 1

ALL STRAIGHT PIPE TO BE LAID THROUGH MANHOLE WITH TOP HALF REMOVED AND ROUGH EDGES MORTARED SMOOTH. (SEE NOTE 3)



INSTALLATIONS IN PAVEMENT AREAS, SET TOP OF FRAME TO FINISH PAVEMENT GRADE. LEAVE CONCRETE COLLAR 2" BELOW COVER AND PLACE 2" TYPE B A.C. TACK-COAT ALL SURFACES PRIOR TO PAVING.

INSTALLATIONS IN NON PAVEMENT AREAS UNLESS OTHERWISE SPECIFIED, SET TOP OF FRAME 2" ABOVE EXISTING GROUND. PLACE CONCRETE COLLAR FLUSH WITH COVER AND SLOPE COLLAR AWAY FROM FRAME.



NOTES:

1. PRECAST PIPE, GRADE RINGS AND TAPERED SECTIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH A.S.T.M. C-478, TYPE II CEMENT.
2. WHEN AN ECCENTRIC TAPERED SECTION IS SPECIFIED, IT SHALL BE SET SUCH THAT THE OPENING IS CENTERED TOWARDS THE DOWNSTREAM SIDE OF THE MAIN LINE PIPE WHENEVER POSSIBLE, UNLESS OTHERWISE SHOWN ON THE PROJECT PLANS.
3. FOR MANHOLES WHERE THE MAIN LINE ANGLES, A FLOW TROUGH ALONG A SMOOTH RADIUS THROUGH THE CONCRETE MANHOLE BASE SHALL BE CONSTRUCTED TO FORM A UNIFORM FLOW SECTION OF THE SAME SHAPE AND SIZE OF THE PIPE BELOW THE SPRING LINE.



CITY OF CLOVIS

DWG NO. **S-2**

48" SEWER MANHOLE

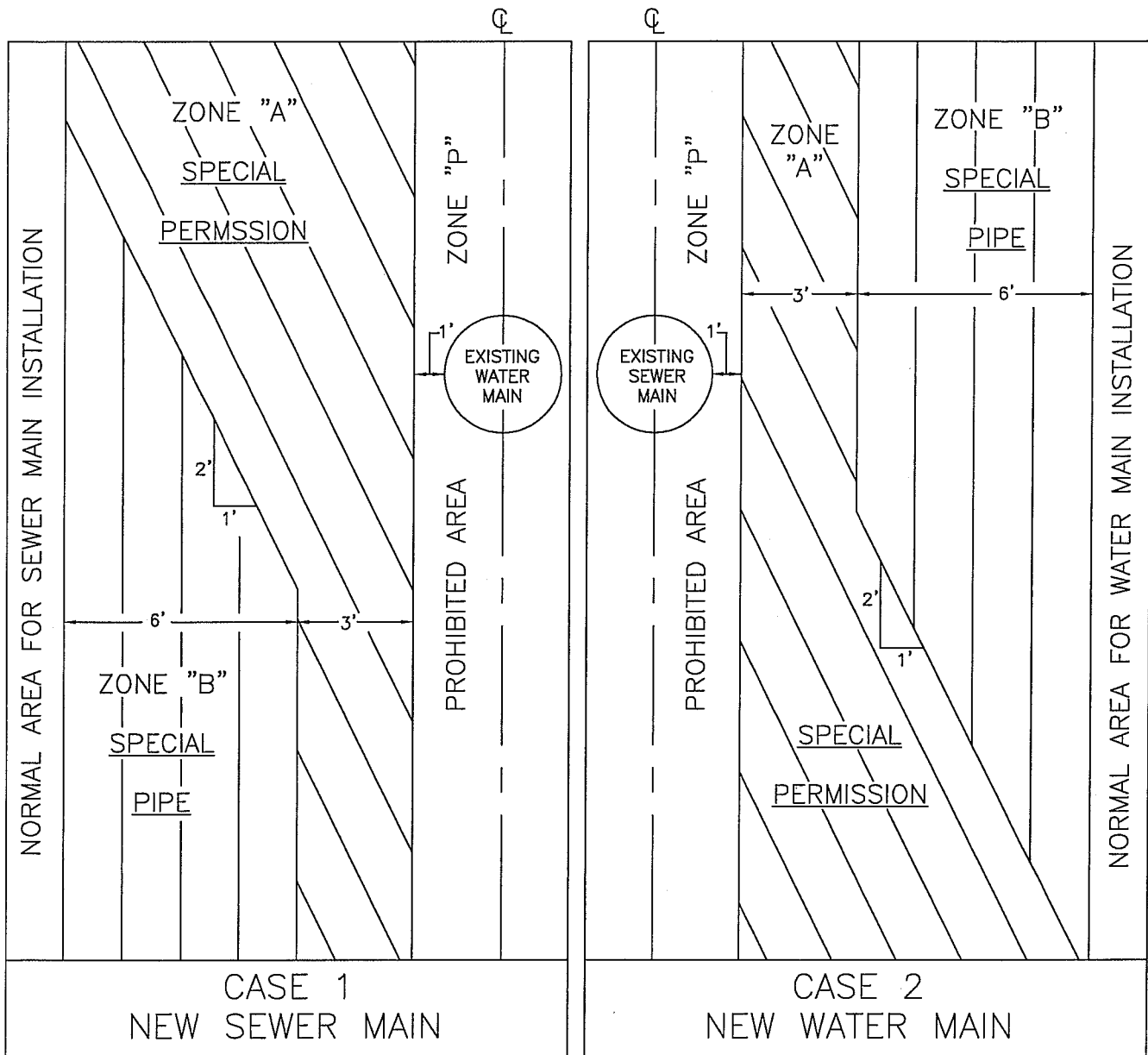
REF. STD. SPECIFICATIONS SECTION 64

APPROVED BY:
 CITY ENGINEER
 DATE: 6/29/09

NO.	REVISED	BY
	03-13-09	BGJ

APPROVALS
 CM *sm*
 DRU *AM*
 PUD *OC*

SCALE: NTS
 DRAWN BY: BGJ
 SHEET 1 OF 1



NOTE:

1. ZONES IDENTICAL ON EITHER SIDE OF CENTER LINES.
2. ZONES "P" ARE PROHIBITED ZONES, NO VARIANCES OR SPECIAL CASES.
3. ZONES A & B ARE TO BE USED ONLY WHEN 10' MINIMUM SEPARATION CANNOT BE ATTAINED.



CITY OF CLOVIS

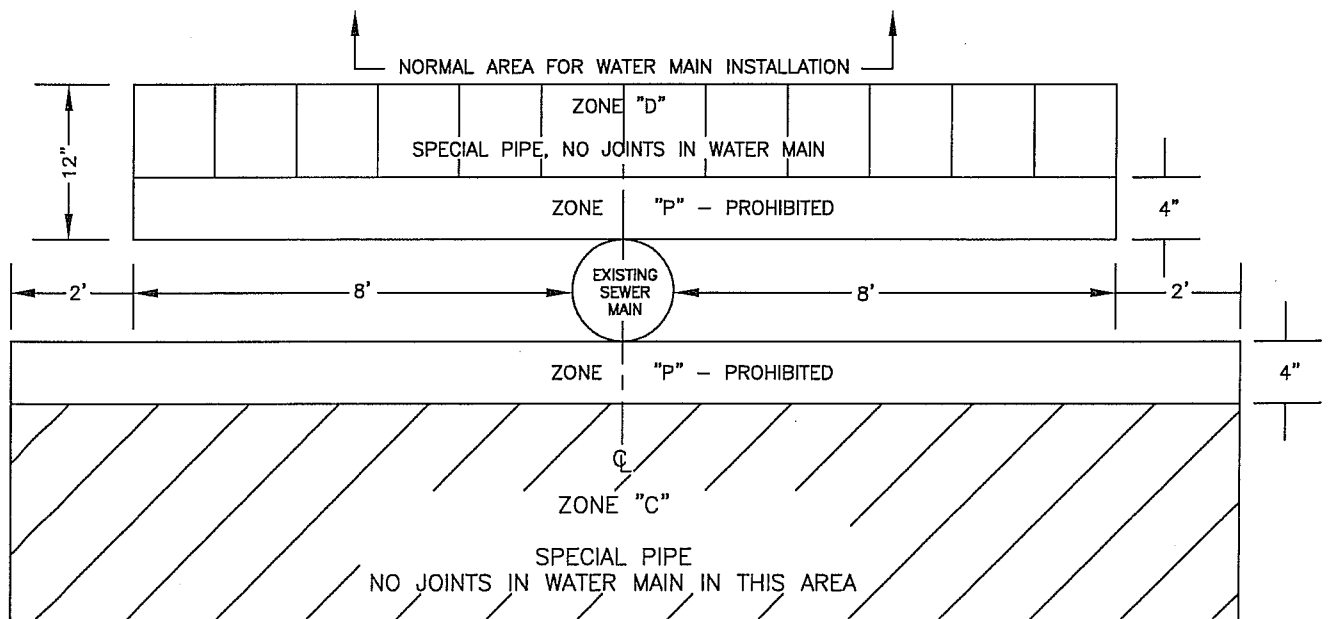
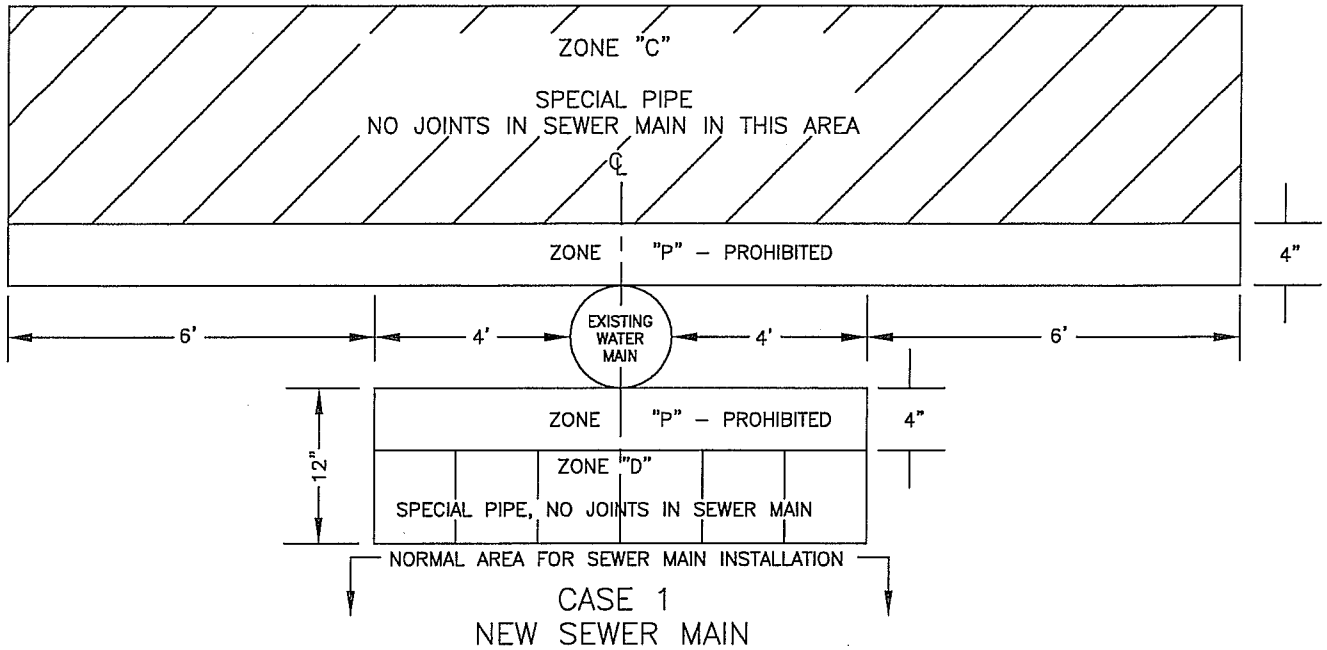
DWG NO.

S-8

SEWER AND WATER MAIN PARALLEL CONSTRUCTION SEPARATION

REF. STD. SPECIFICATIONS
SECTION 64

APPROVED BY:	NO.	REVISED	BY	APPROVALS	SCALE: NTS
CITY ENGINEER		03-13-09	BGJ	CM JEL DRU MAL PUD [Signature]	DRAWN BY: BGJ
					SHEET 1 OF 1
DATE: 1/20/10					



NOTES:

1. ZONES "P" ARE PROHIBITED ZONES, NO VARIANCES OR SPECIAL CASES.
2. A NEW WATER MAIN CROSSING A PIPE CARRYING NOT-POTABLE FLUIDS SHALL BE CONSTRUCTED NO LESS THAN 45 DEGREES TO THE PIPE BEING CROSSED.



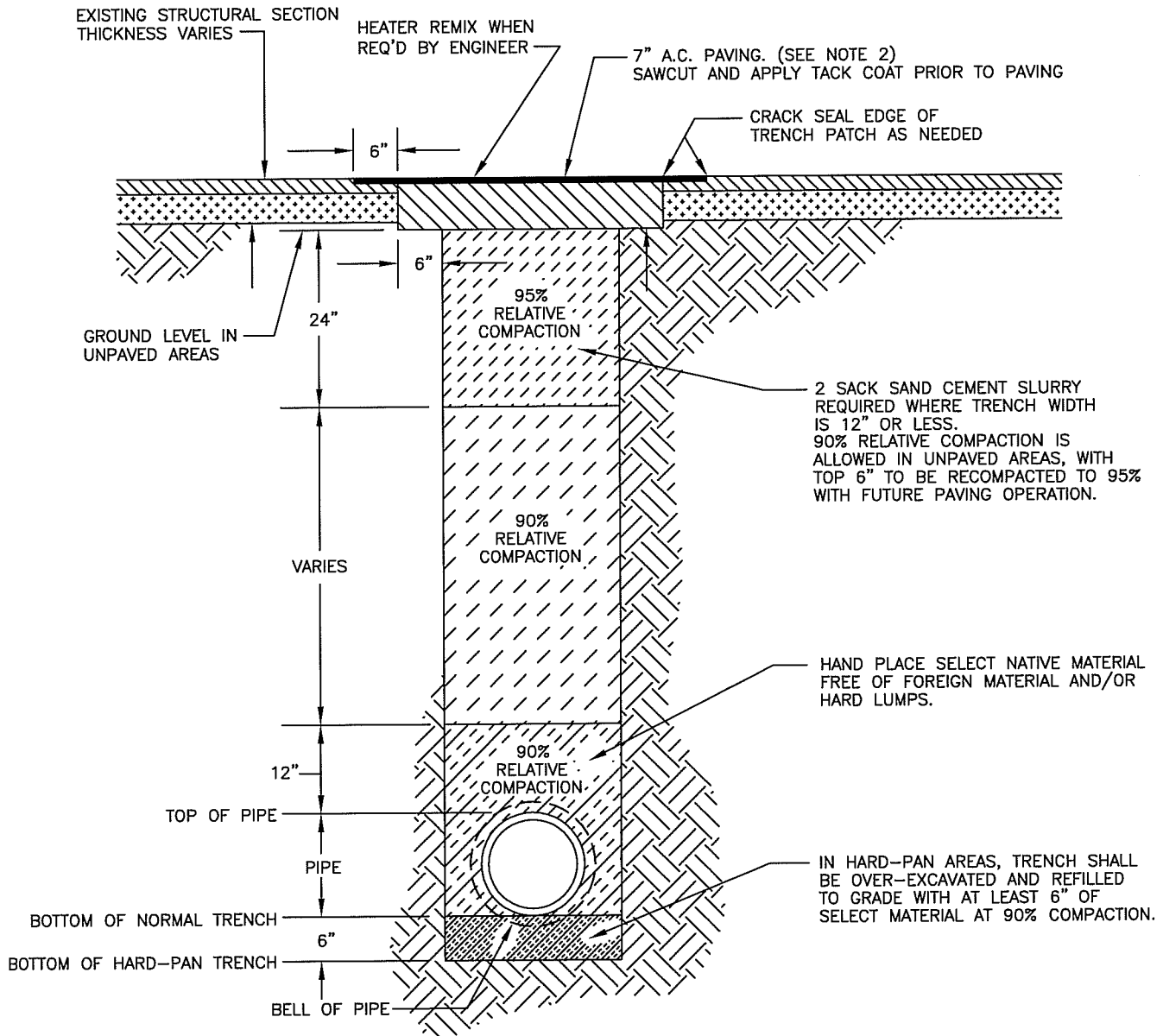
CITY OF CLOVIS

DWG NO.
S-9

SEWER AND WATER MAIN CROSSING CONSTRUCTION SEPARATION


REF. STD. SPECIFICATIONS
SECTION 64

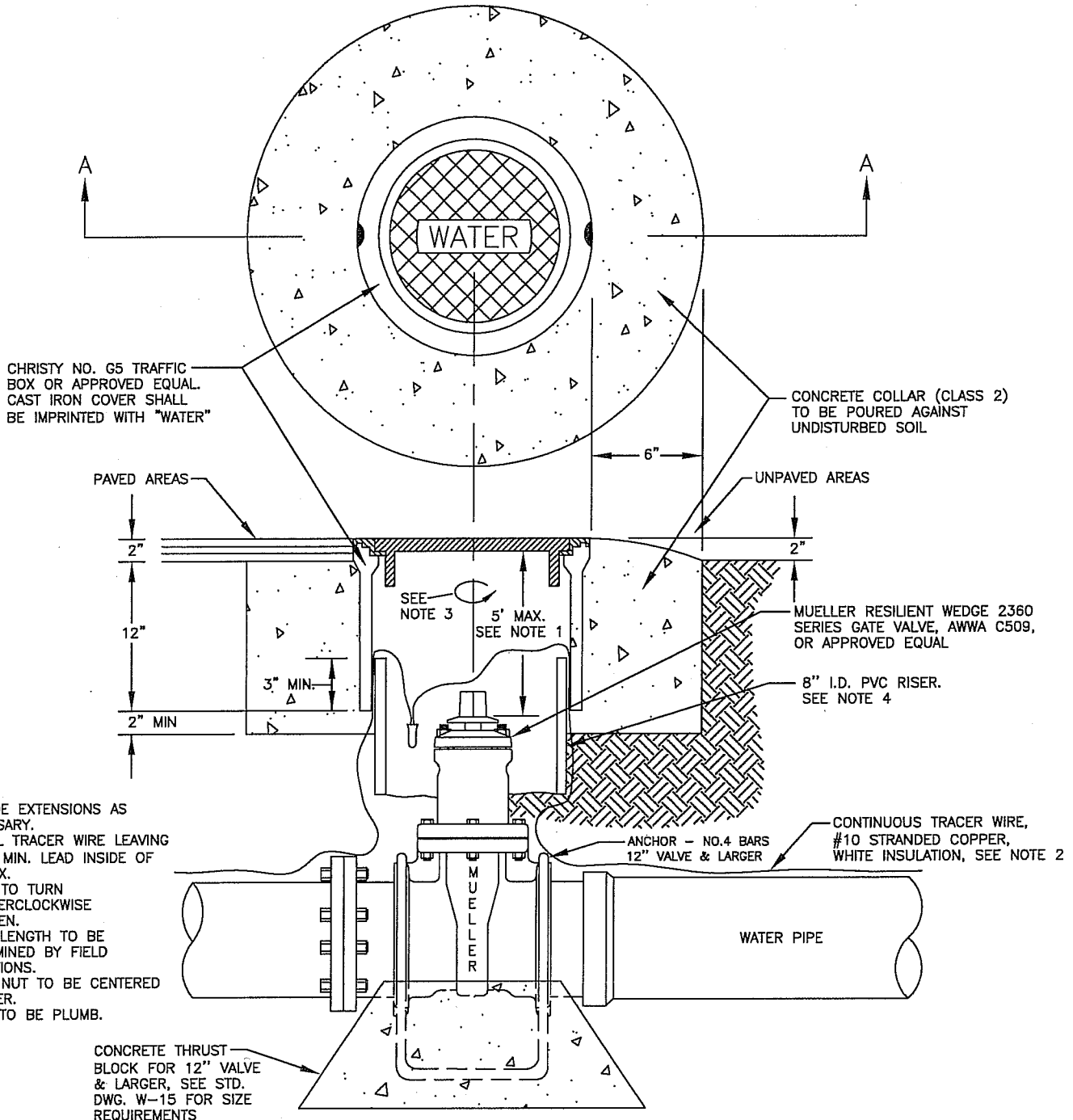
APPROVED BY: CITY ENGINEER <i>[Signature]</i> DATE: 6/29/09	NO. _____ _____ _____	REVISED 03-13-09 _____ _____	BY BGY _____ _____	APPROVALS CM <i>[Signature]</i> DRU <i>[Signature]</i> PUD <i>[Signature]</i>	SCALE: NTS DRAWN BY: BGY SHEET 1 OF 1
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NOTES:

1. TEMPORARY TRENCH RESURFACING SHALL CONSIST OF A MINIMUM OF 4" COLD MIX AND SHALL BE REQUIRED WHENEVER THE STREET IS TEMPORARILY OPENED TO TRAFFIC. ALL TEMPORARY MATERIAL SHALL BE COMPLETELY REMOVED PRIOR TO FINAL PAVING.
2. PERMANENT TRENCH RESURFACING IN PAVED AREAS SHALL CONSIST OF 7" A.C. PAVING OR MATCH EXISTING PAVEMENT SECTION IF TRENCH IS WIDER THAN 6' UNLESS SPECIFIED OTHERWISE. EXISTING PAVEMENT TRENCH EDGES SHALL BE SAWCUT AND APPLY TACK COAT PRIOR TO FINAL PAVING.
3. TRENCH RESURFACING STRUCTURAL SECTION IN OTHER THAN PERMANENTLY PAVED OR UNPAVED AREAS SHALL BE DETERMINED BY THE CITY ENGINEER.
4. ALL TRENCH BACKFILL WILL BE TESTED FOR OPTIMUM MOISTURE. TO BE CONSIDERED A PASSING TEST, THE IN-PLACE MATERIAL MUST BE WITHIN 2% (ABOVE OR BELOW) THE OPTIMUM MOISTURE.
5. NO JETTING OF TRENCH BACKFILL WILL BE ALLOWED. BACKFILL IS TO BE PLACED IN MAXIMUM 18" LIFTS, THEN COMPACTED.
6. FOR UTILITY POTHOLES WITH DIAMETER 9" OR LESS OR MAXIMUM DIMENSION IN ANY DIRECTION OF 9" OR LESS, OR WHERE DIRECTED BY THE ENGINEER, BACKFILL SHALL COMPLY WITH THE STANDARD DRAWING FOR UTILITY POTHOLE BACKFILL.

	CITY OF CLOVIS	DWG NO. ST-20																
	TRENCH BACKFILL AND RESURFACING	REF.: STD. SPECIFICATIONS SECTION 19																
APPROVED BY: CITY ENGINEER <i>[Signature]</i> DATE: <i>1/19/11</i>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">NO.</th> <th style="width: 30%;">REVISED</th> <th style="width: 10%;">BY</th> <th style="width: 50%;">APPROVALS</th> </tr> </thead> <tbody> <tr> <td> </td> <td>05-05-09</td> <td>BGJ</td> <td>CM</td> </tr> <tr> <td> </td> <td>01-13-11</td> <td>BGJ</td> <td>DRU</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td>PUD</td> </tr> </tbody> </table>	NO.	REVISED	BY	APPROVALS		05-05-09	BGJ	CM		01-13-11	BGJ	DRU				PUD	SCALE: NTS DRAWN BY: JA SHEET 1 OF 1
NO.	REVISED	BY	APPROVALS															
	05-05-09	BGJ	CM															
	01-13-11	BGJ	DRU															
			PUD															



NOTES

1. PROVIDE EXTENSIONS AS NECESSARY.
2. INSTALL TRACER WIRE LEAVING A 12" MIN. LEAD INSIDE OF G5 BOX.
3. VALVE TO TURN COUNTERCLOCKWISE TO OPEN.
4. RISER LENGTH TO BE DETERMINED BY FIELD CONDITIONS.
5. VALVE NUT TO BE CENTERED IN RISER.
6. RISER TO BE PLUMB.

SECTION A-A



CITY OF CLOVIS

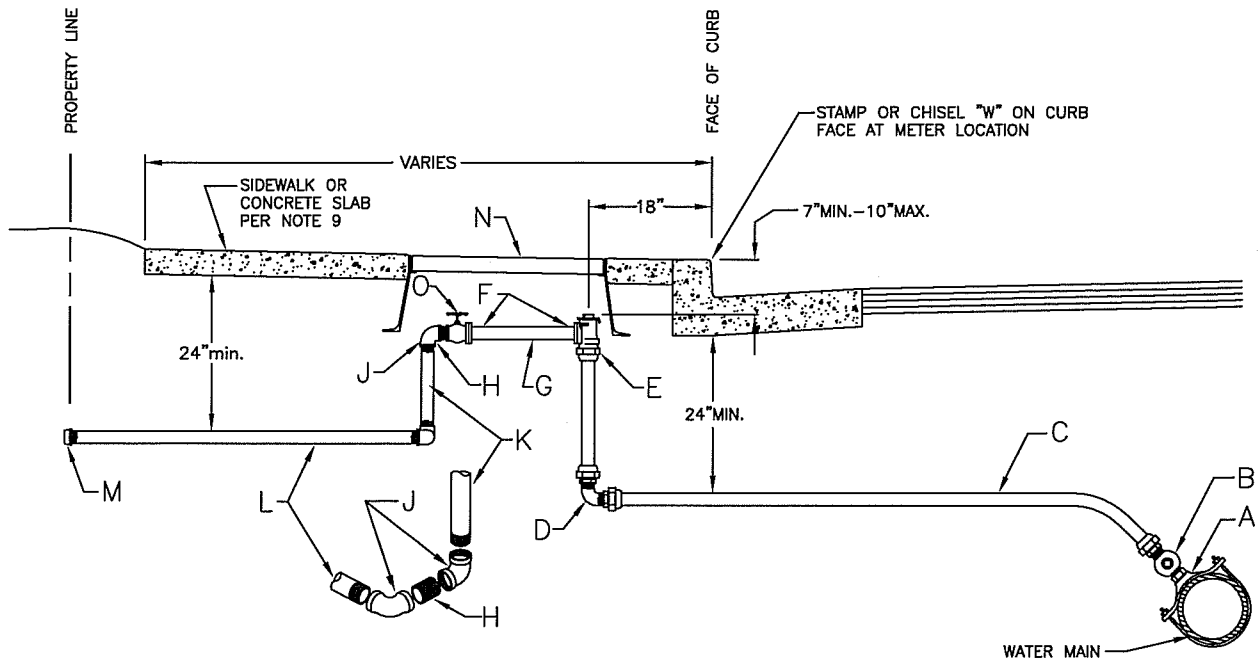
DWG NO.

W-1

WATER VALVE

REF. STD. SPECIFICATIONS SECTION 66

APPROVED BY:	NO.	REVISED	BY	APPROVALS	SCALE: NTS
CITY ENGINEER		11-23-09	BGJ	CM DRU PUD	DRAWN BY: JA
	DATE: 1/26/10	07-28-09	BGJ		
					SHEET 1 OF 1



SERVICE DETAIL

NOT TO SCALE

LEGEND:

- A. USE DOUBLE STRAP STAINLESS STEEL BAND, CC AWWA TAPER THREAD, MUELLER DR25 SERIES, ROMAC 202S, SMITH BLAIR 317, OR EQUAL.
- B. 2" CORPORATION STOP. MUELLER 110 COMPRESSION CONNECTION, MUELLER B-25008 N; AY McDONALD 74701BQ; FORD NFB1000-6Q, 7Q.
- C. CONTINUOUS COPPER PIPE, TYPE "K" SOFT.
- D. QUARTER BEND COUPLING, 1.5" OR 2" MUELLER 110 COMPRESSION CONNECTION; MUELLER H-15526N, FORD NL44-66Q (1-1/2"), NL44-77Q (2"), AY McDONALD 74602BQ, FORD NBFA43-666WQ (1-1/2"), NBFA43-777WQ (2").
- E. 2" FLANGED BALL ANGLE METER STOP ADAPTABLE TO EITHER 1-1/2" OR 2" FLANGE FITTING. MUELLER 110 COMPRESSION CONNECTION B24276N, AY McDONALD 74602BQ, FORD NBFA43-666WQ (1-1/2"), NBFA43-777WQ (2").
- F. METER SPACER TWO-HOLE FLANGE W/ GASKET.
- G. METER SPACER 13-1/4" FOR 1-1/2" SERVICE, 17-1/4" FOR 2" SERVICE.
- H. SERVICE SIZE GALVANIZED CLOSE NIPPLE.
- J. SERVICE SIZE 90° GALVANIZED ELBOW.
- K. SERVICE SIZE 12" GALVANIZED RISER.
- L. SERVICE SIZE GALVANIZED PIPE.
- M. SERVICE SIZE GALVANIZED CAP (COUPLING W/PVC PLUG OR CAP).
- N. 17" X 30" METERBOX (CHRISTY FL 36 OR APPROVED EQUAL) WITH REINFORCED CONCRETE LID WITH CAST IRON READING DOOR, B36G.
- O. SERVICE SIZE GATE VALVE.

NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS LISTED IN LEGEND.
2. WATER METER TO BE FURNISHED AND INSTALLED BY CITY AT THE OWNERS EXPENSE.
3. WATER METER AND SERVICE BOX INSTALLATION SHALL BE INSPECTED AND APPROVED BY CITY PRIOR TO SIDEWALK INSTALLATION.
4. WATER SERVICES SHALL BE LOCATED A MINIMUM OF 3 FEET OUTSIDE OF DRIVE APPROACH WINGS.
5. ALL MATERIALS SHALL BE AS NOTED OR CITY APPROVED EQUAL.
6. A CLEAR SPACE OF AT LEAST 3 INCHES SHALL BE MAINTAINED BETWEEN (H) SPACER SPOOL AND TOP OF DIRT INSIDE BOX.
7. REFER TO STANDARD DRAWING W-6A FOR SERVICE DETAIL.
8. ALL GALVANIZED PIPE AND FITTINGS SHALL BE DOUBLE WRAPPED WITH 10 MIL TAPE.
9. ALL METER BOXES IN DIRT OR LANDSCAPE AREAS SHALL BE SET IN CONCRETE SLAB MEASURING AT LEAST 1' AROUND ALL SIDES OF BOX AND 3-1/2" THICK.
10. METER BOXES SHALL BE CLEARED OF ALL OTHER FACILITIES.
11. METER BOX SHALL BE CENTERED OVER SPACER ASSEMBLY.
12. SEE W5-A FOR METER BOX PLACEMENT.
13. BRASS ANGLE VALVE, CORP STOP AND QTR BEND MUST BE COMPLIANT WITH AB 1953 "LEAD FREE".



CITY OF CLOVIS

1 1/2" or 2" WATER SERVICE

DWG NO.

W-6

REF. STD. SPECIFICATIONS SECTION 66

SCALE: NTS

DRAWN BY: JA

SHEET 1 OF 1

APPROVED BY:

CITY ENGINEER

DATE:

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2/16/11

NO.

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BY

APPROVALS

11-24-09

BGJ

CM

12-07-09

BGJ

DRU

08-11-11

BGJ

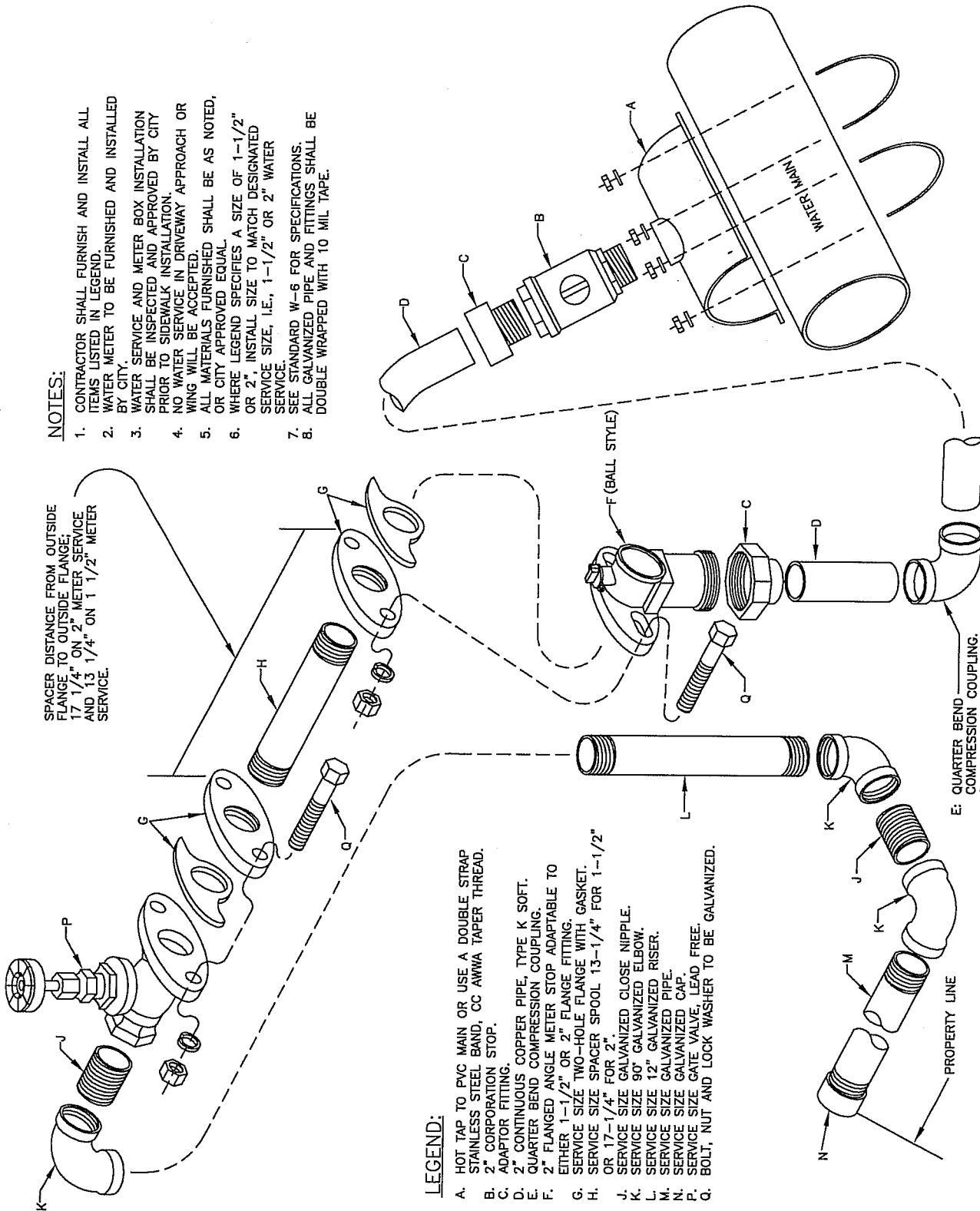
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NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS LISTED IN LEGEND.
2. WATER METER TO BE FURNISHED AND INSTALLED BY CITY.
3. WATER SERVICE AND METER BOX INSTALLATION SHALL BE INSPECTED AND APPROVED BY CITY PRIOR TO SIDEWALK INSTALLATION.
4. NO WATER SERVICE IN DRIVEWAY APPROACH OR WING WILL BE ACCEPTED.
5. ALL MATERIALS FURNISHED SHALL BE AS NOTED, OR CITY APPROVED EQUAL.
6. WHERE LEGEND SPECIFIES A SIZE OF 1-1/2" OR 2", INSTALL SIZE TO MATCH DESIGNATED SERVICE SIZE, I.E., 1-1/2" OR 2" WATER SERVICE.
7. SEE STANDARD W-6 FOR SPECIFICATIONS.
8. ALL GALVANIZED PIPE AND FITTINGS SHALL BE DOUBLE WRAPPED WITH TO MIL TAPE.

SPACER DISTANCE FROM OUTSIDE FLANGE TO OUTSIDE FLANGE: 17 1/4" ON 2" METER SERVICE AND 13 1/4" ON 1 1/2" METER SERVICE.



LEGEND:

- A. HOT TAP TO PVC MAIN OR USE A DOUBLE STRAP STAINLESS STEEL BAND, CC AWWA TAPER THREAD.
- B. 2" CORPORATION STOP.
- C. ADAPTOR FITTING.
- D. 2" CONTINUOUS COPPER PIPE, TYPE K SOFT.
- E. QUARTER BEND COMPRESSION COUPLING.
- F. 2" FLANGED ANGLE METER STOP ADAPTABLE TO EITHER 1-1/2" OR 2" FLANGE FITTING.
- G. SERVICE SIZE TWO-HOLE FLANGE WITH GASKET, OR 17-1/4" FOR 2".
- H. SERVICE SIZE SPACER SPOOL 13-1/4" FOR 1-1/2" OR 17-1/4" FOR 2".
- I. SERVICE SIZE GALVANIZED CLOSE NIPPLE.
- J. SERVICE SIZE 90° GALVANIZED ELBOW.
- K. SERVICE SIZE 12" GALVANIZED PIPE.
- L. SERVICE SIZE GALVANIZED RISER.
- M. SERVICE SIZE GALVANIZED CAP.
- N. SERVICE SIZE GATE VALVE, LEAD FREE.
- Q. BOLT, NUT AND LOCK WASHER TO BE GALVANIZED.

E: QUARTER BEND COMPRESSION COUPLING (NOT REQUIRED ON ROLL TYPE COPPER AND POLY TUBING). AY McDONALD 74761Q, FORD NL44-66Q, NL44-77Q, MUELLER H-15526N.



CITY OF CLOVIS

BLOWN-UP VIEW 1 1/2" or 2" WATER SERVICE

DWG NO.
W-6A

REF. STD. SPECIFICATIONS
SECTION 66

APPROVED BY:

CITY ENGINEER

DATE: 1/20/10

NO.

REVISED

BY

APPROVALS

11-24-09
11-10-09

BGJ
BGJ

CM JEL
DRU MJA
PUD JJK

SCALE: NTS

DRAWN BY: JA

SHEET 1 OF 1