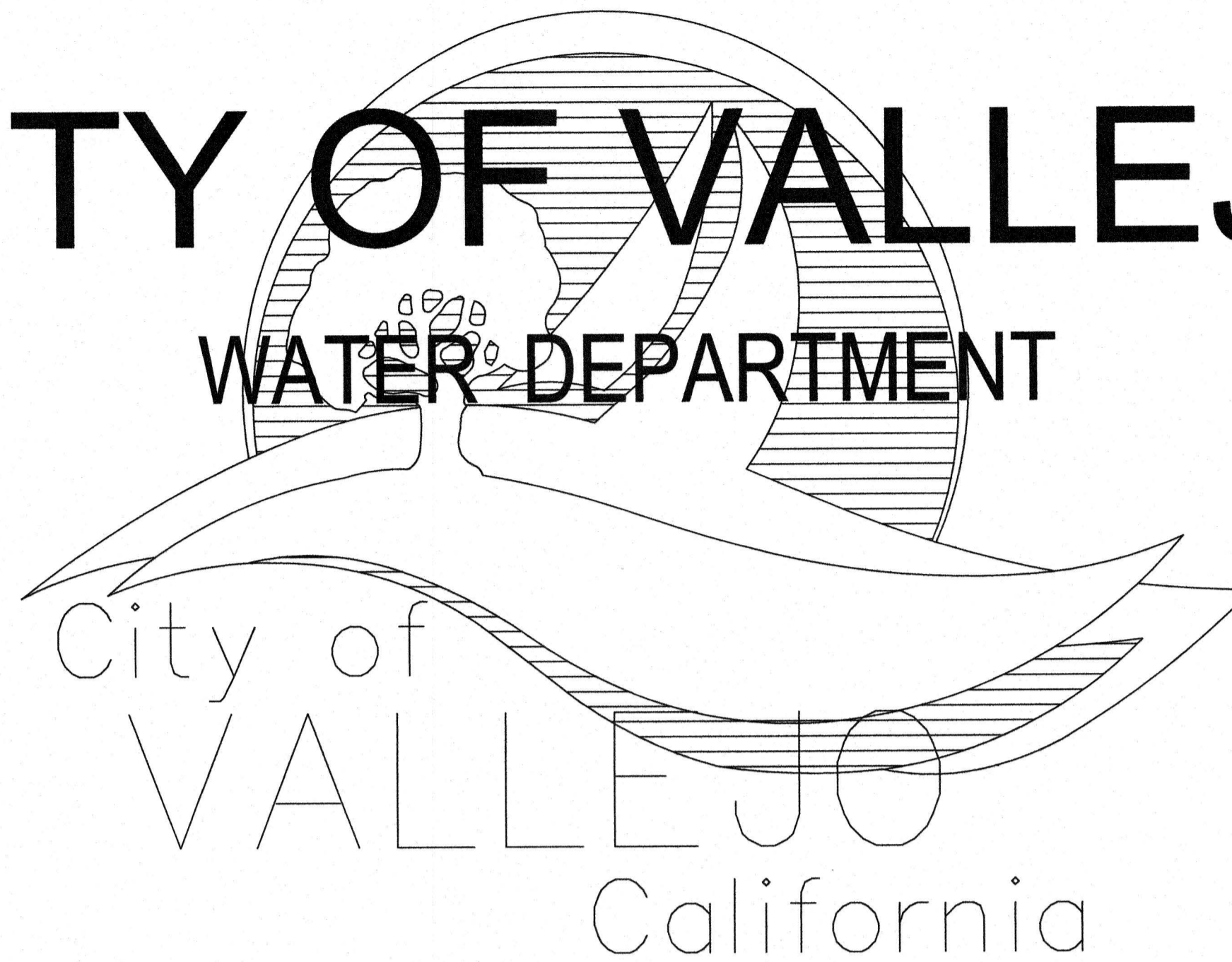


# CITY OF VALLEJO

## WATER DEPARTMENT



### WATER MAINS CAPITAL IMPROVEMENTS PROJECT FY18-19 WT8050

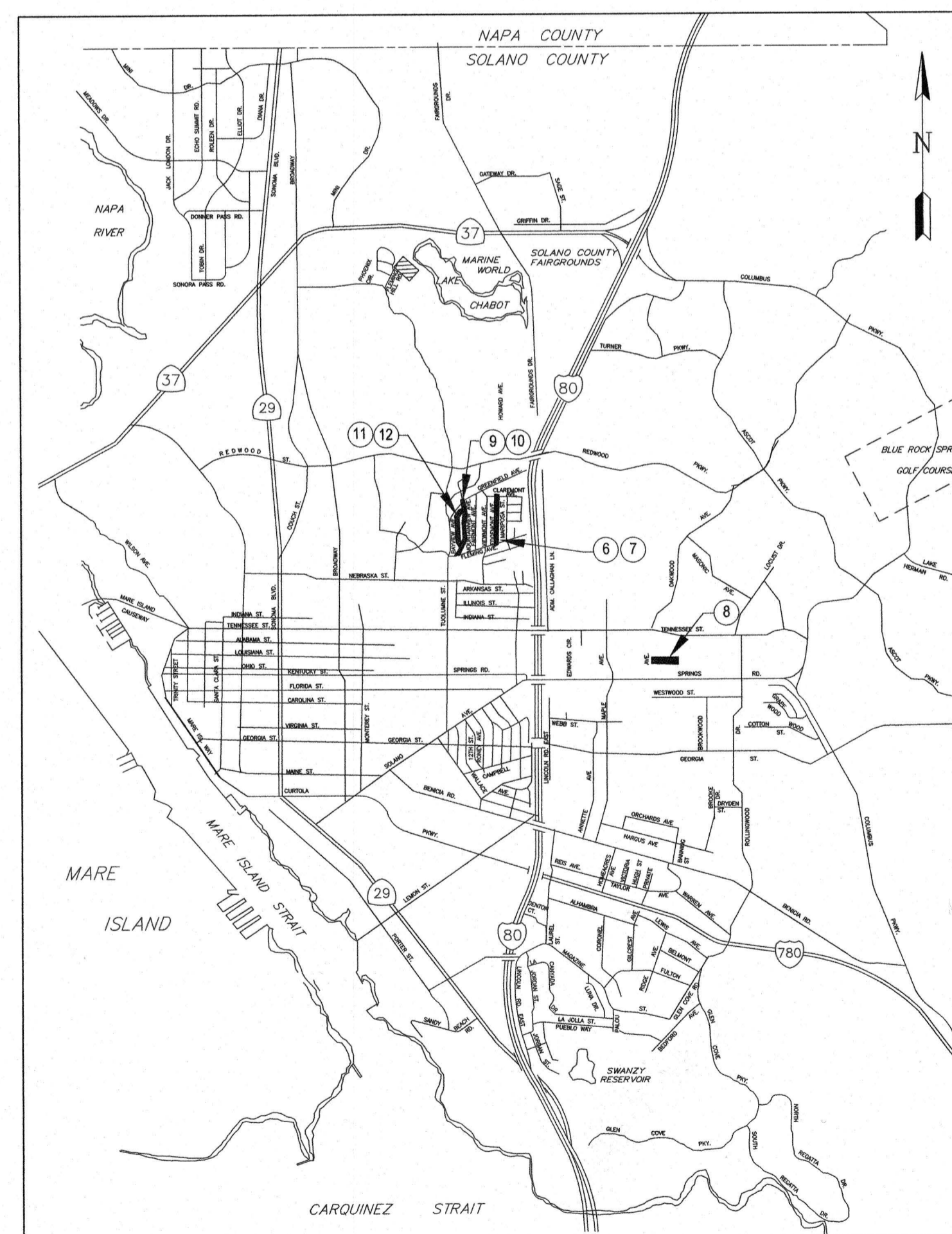
#### CITY COUNCIL

- Bob Sampayan - Mayor
- Robert H. McConnell- Vice Mayor
- Pippin Dew-Costa
- Jesus Malgapo
- Katy Miessner
- Hermie Sunga
- Rozzana Verder-Aliga, EdD

Approved for Construction:

*Michael A. Malone*  
 Michael A. Malone *QA*  
 Water Director, City of Vallejo

*9/17/18*  
 Date



PROJECT LOCATION MAP

#### INDEX OF DRAWINGS

SHT. NO.	DWG. NO.	DESCRIPTION	LIMITS
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6	PP-1	PLAN AND PROFILE - EDMONT STREET	FROM FLEMING AVENUE TO CLAREMONT AVENUE
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Elevations shown on these plans are based on the North American Vertical Datum of 1988 (NAVD88).  
 City of Vallejo Datum (COVD) = NAVD88 - 8.99  
 COVD = National Geodetic Vertical Datum 1929 (NGVD29) - 6.34  
 COVD = MID - 106.34  
 Mare Island Datum (MID) = NGVD29 + 100

INT.									
REVISION									
DATE	MARK								
CITY OF VALLEJO WATER DEPARTMENT APPROVED: <i>Richard Wilson</i> RICHARD WILSON, P.E. - ENGINEERING MANAGER									
WATER MAINS CIP FY18-19 WT8050 <h2 style="margin: 0;">TITLE SHEET</h2>									
CITY PROJECT # WTR050 DESIGN BY R. ZAMBRANA DRAWN BY R. ZAMBRANA CHECKED BY D. RASMUSSEN/V. GONZALEZ DATE 09/17/2018 SCALE AS SHOWN SHEET 1 <h1 style="font-size: 2em; margin: 0;">T-1</h1> OF 12 SHEETS DRAWING FILE # 12-935									



**GENERAL NOTES**

- ALL ELEVATIONS SHOWN ARE EXPRESSED IN NAVD88 DATUM WHICH IS EQUIVALENT TO 8.99 FEET ABOVE VALLEJO DATUM. (VALLEJO DATUM = NAVD88 -8.99')
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS OR MARKERS DURING CONSTRUCTION AND SHALL RESTORE ALL THAT ARE DAMAGED OR DESTROYED. RE-ESTABLISHED MONUMENTS SHALL BE SET BY A LICENSED SURVEYOR AND FILE A RECORD OF SURVEY WITH THE SOLANO COUNTY RECORDER FOR EACH MONUMENT.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN AND AROUND THE AREAS OF NEW CONSTRUCTION. THE CONTRACTOR SHALL POthOLE FOR EXISTING UTILITIES INCLUDING EXISTING WATER MAINS PRIOR TO SUBMITTAL OF SHOP DRAWINGS FOR POINTS OF CONNECTION.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES TO REMAIN. LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM AVAILABLE RECORDS. NEITHER THE CITY NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR EXISTING UTILITIES NOT SHOWN OR NOT IN THE LOCATION SHOWN. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS AND ELEVATIONS, AND SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITY LINES WHETHER SHOWN OR NOT SHOWN.
- THE CONTRACTOR SHALL CONTACT THE UTILITY AGENCIES FOR FIELD LOCATIONS OF UTILITIES AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION.
- THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS WHICH ARE TO REMAIN IN PLACE FROM DAMAGE. ALL IMPROVEMENTS THAT WERE DAMAGED BY THE CONTRACTOR SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED TO A CONDITION EQUAL TO OR BETTER THAN THE PRIOR TO CONSTRUCTION AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION.
- THE CONTRACTOR SHALL COMPLY WITH THE STATE DEPARTMENT OF HEALTH SERVICES CRITERIA FOR THE SEPARATION OF WATER MAINS AND SANITARY SEWERS AS SET FORTH IN SECTION 64630, TITLE 22 OF THE CALIFORNIA ADMINISTRATIVE CODE.
- ANY RELOCATION OF PUBLIC UTILITIES SHALL BE CONDUCTED IN ACCORDANCE WITH ANY AND ALL REQUIREMENTS OF THE UTILITY COMPANIES, INCLUDING FEES, BONDS, PERMITS AND WORKING CONDITIONS, ETC. THIS WORK SHALL BE DONE AT NO EXPENSE TO THE LOCAL AGENCIES.
- A DIG ALERT IDENTIFICATION NUMBER MUST BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID. FOR THE DIG ALERT ID NUMBER, CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USA) AT 1-800-227-2600 AT LEAST FORTY EIGHT (48) HOURS BEFORE ANY EXCAVATION IN THE VICINITY OF ANY EXISTING UNDERGROUND FACILITIES PER THE PROJECT SPECIFICATIONS.
- CONSTRUCTION AT ALL WORK SITES SHALL BE PERFORMED WITHIN THE STREET RIGHT OF WAY LINES OR EASEMENTS AS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT AN EROSION CONTROL PLAN. NO WORK SHALL COMMENCE PRIOR TO SUBMITTAL AND APPROVAL OF THIS PLAN BY THE ENGINEER.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PERMITS NECESSARY TO PERFORM THE WORK SHOWN IN THESE PLANS FROM THE APPROPRIATE AGENCIES, INCLUDING BUT NOT LIMITED TO NPDES STORM WATER PERMIT.
- ALL TRENCH EXCAVATIONS THAT ARE FIVE FEET OR MORE IN DEPTH SHALL BE SHORED OR OTHERWISE PROTECTED IN ACCORDANCE WITH CAL OSHA APPROVED STANDARDS.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE STATE, COUNTY AND CITY LAWS AND ORDINANCES RELATING TO THE SAFETY AND CHARACTER OF WORK, EQUIPMENT AND LABOR PERSONNEL. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO, THE SHORING OF TRENCHES, VENTILATION OF CONFINED SPACES AND CONFORMANCE TO TRAFFIC CONTROL REQUIREMENTS.
- ALL CONSTRUCTION MATERIALS AND METHODS SHALL COMPLY WITH THE APPLICABLE ORDINANCES, SPECIFICATIONS AND STANDARDS OF THE CITY OF VALLEJO. ALL NOTES APPEARING ON THESE PLANS SHALL BE CONSIDERED AS INCIDENTAL WORK AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR ADHERING TO THESE NOTES.
- THE CONTRACTOR SHALL BE RESPONSIBLE IN PRESERVING AND MAINTAINING THE CONSTRUCTION STAKES SET BY THE CITY FOR THE PROJECT. THE NUMBER AND LOCATION OF WHICH SHALL BE DETERMINED BEFORE CONSTRUCTION BEGINS.
- CONTRACTOR SHALL BE RESPONSIBLE TO SCHEDULE OR REQUEST INSPECTION AND SHALL NOTIFY THE APPROPRIATE INDIVIDUAL OR AGENCY TWO WORKING DAYS PRIOR TO THE TIME THAT THE CONTRACTOR WISHES THE INSPECTION TO BE MADE. THE PRESENCE OR ABSENCE OF A CITY INSPECTOR OR THE AGENCIES REPRESENTATIVE WILL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR THE PROPER PERFORMANCE OF THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO CLEAN, PROTECT, AND MAINTAIN STORM DRAIN FACILITIES THROUGHOUT THE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL ADHERE TO THE TREE PROTECTION REQUIREMENTS.
- THESE PROJECT PLANS AND SPECIFICATIONS ARE SUBJECT TO MODIFICATION DURING CONSTRUCTION SHOULD CONDITIONS APPEAR THAT WERE NOT APPARENT DURING DESIGN. ANY SUCH MODIFICATION SHALL REQUIRE APPROVAL BY THE ENGINEER.
- ALL WORK AND EQUIPMENT NOT COVERED BY THE PROVISIONS OF THE CITY OF VALLEJO STANDARDS SHALL BE INSTALLED IN ACCORDANCE WITH THESE SPECIAL PROVISIONS.
- SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR SUCH FURTHER EXPLANATION AS MAY BE NECESSARY.
- THE CONTRACTOR SHALL PROVIDE FOR INGRESS AND EGRESS OF PRIVATE PROPERTY OWNERS ADJACENT TO THE PROJECT AT ALL TIMES DURING WORKING HOURS.
- LENGTHS OF WATER LINES ARE HORIZONTAL MEASUREMENTS. ALL QUANTITIES AND PAY ITEMS ARE AND SHALL BE BASED ON HORIZONTAL MEASUREMENTS.
- SEWER LATERALS ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL PRESUME AND UNDERSTAND THAT EVERY HOUSE AND/ OR COMMERCIAL BUILDING HAS A SEWER LATERAL IN THE STREET SERVING THE FACILITY. CONTRACTOR SHALL HIRE A PROFESSIONAL LOCATOR TO DETERMINE THE VERTICAL AND HORIZONTAL LOCATION OF THOSE LATERALS PRIOR TO START OF WORK IN EACH LOCATION.
- FULL COMPENSATION FOR COMPLYING WITH THESE NOTES AND OTHER NOTES ON THE PLANS SHALL BE CONSIDERED AS INCLUDED IN THE PRICE PAID FOR VARIOUS CONTRACT ITEMS OR WORK AND NO ADDITIONAL ALLOWANCE WILL BE MADE THEREFOR.

**WATER SYSTEM NOTES**

- FOR CONSTRUCTION DETAILS, REFER TO CITY OF VALLEJO STANDARD SPECIFICATIONS AND DRAWINGS.
- ALL MATERIALS TO BE IN CONTACT WITH POTABLE WATER SHALL BE NSF-61 APPROVED.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 42 INCHES COVER ON ALL PIPELINES UNLESS OTHERWISE SHOWN OR DIRECTED.
- AT WATER LINE CROSSINGS WITH SEWER MAINS AND LATERALS, MINIMUM VERTICAL CLEARANCE SHALL BE 12 INCHES; AT CROSSINGS WITH OTHER UTILITIES, THE MINIMUM VERTICAL CLEARANCE SHALL BE 12 INCHES.
- THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES TO FINISHED GRADE.
- BEDDING AND BACKFILL METHODS AND MATERIALS SHALL COMPLY WITH CITY SPECIFICATIONS. CLASS II AB IS SPECIFICALLY REQUIRED AROUND THE PIPE ZONE AS SHOWN IN THE TYPICAL TRENCH BACKFILL DETAIL EXCEPT SAND BACKFILL IS REQUIRED FOR DUCTILE IRON PIPE. NO RECYCLED MATERIALS FOR AB AND CONCRETE ARE ALLOWED.
- EXCAVATIONS MUST BE KEPT DEWATERED AT ALL TIMES SO AS NOT TO ALLOW CONTAMINATED WATER TO ENTER WATER MAINS.
- ALL BURIED VALVE INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE DETAILS SHOWN ON THESE PLANS.
- ALL EXISTING VALVES ON ABANDONED WATER MAINS SHALL BE TURNED IN THE CLOSED POSITION AND HAVE THEIR VALVE BOXES AND CONCRETE COLLARS AND RISERS REMOVED TO A DEPTH OF 18", AND BACKFILLED WITH CLASS II AB; IN PAVED AREAS, TOP WITH 4" MIN ASPHALT CONCRETE TO MATCH EXISTING GRADE.
- ALL WATER MAINS THAT ARE SCHEDULED FOR ABANDONMENT SHALL BE PLUGGED WITH AT LEAST TWENTY-FOUR (24) INCHES OF CONCRETE AT EACH END.
- WATER MAINS THAT ARE SCHEDULED TO BE KEPT IN SERVICE SHALL BE CAPPED WITH A WATER-TIGHT MEGALUG CAP AND A CONCRETE THRUST BLOCK.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATION, DIAMETER, AND TYPE OF EXISTING PIPE SO THAT THE NEW PIPE CAN BE PROPERLY ALIGNED WITH AND FITTED TO THE EXISTING PIPE.
- DEFLECTION OF PIPE AT JOINTS SHALL COMPLY WITH MANUFACTURER'S SPECIFICATIONS.
- BENDS MAY NOT BE USED EXCEPT WHEN SHOWN ON THE PLANS OR PERMITTED BY THE ENGINEER.
- THRUST RESTRAINT SHALL BE PROVIDED AT TEES AND BENDS BY MECHANICAL METHODS AND CONCRETE THRUST BLOCKS PER CITY STANDARDS. ON ALL TIE INS AND CONNECTIONS, THERE SHALL BE NO UNRESTRAINED JOINTS WITHIN TEN (10) FEET OF THE CONNECTION OR TIE IN.
- ALL BOLTED FITTINGS AND VALVES WHICH ARE BURIED SHALL BE WRAPPED WITH A MINIMUM 16 MILS POLYETHYLENE.
- ALL SERVICE LINES 2" DIAMETER AND SMALLER SHALL BE HDPE WITH CORPORATION STOPS AT POINT OF CONNECTION TO MAIN. INCLUDE TRACER WIRE COILED IN METER BOX AND MECHANICALLY CONNECTED TO WATERMAIN TRACER WIRE.
- AT WATER METERS, THE CENTER LINE OF THE CURB STOP SHALL BE 12 INCHES BELOW THE TOP OF THE METER BOX LID.
- THE INSIDE OF ALL PIPES AND FITTINGS MUST BE THOROUGHLY RINSED WITH A PROPER DISINFECTING AGENT PER AWWA C651.
- TIE INS WILL BE MADE AFTER DISINFECTION BY THE CONTRACTOR. TIE INS WILL BE MADE ONLY UNDER THE DIRECTION OF CITY REPRESENTATIVES. ALL TIE INS SHALL BE MECHANICALLY RESTRAINED WITH MEGALUGS.
- ALL FITTINGS, VALVES AND MATERIALS TO ACCOMPLISH TIE INS SHALL BE ON THE JOB SITE AND EXISTING EXPOSED AND CHECKED FOR PROPER FIT PRIOR TO ANY SHUT DOWN OF EXISTING WATER MAINS.
- MISALIGNMENT SHALL BE CORRECTED BY THE REALIGNMENT OF EITHER OR BOTH PIPES TO BE CONNECTED. CONTRACTOR SHALL PROVIDE ALL FITTINGS AND PIPE MATERIALS NEEDED TO CONNECT THE NEW PIPE TO THE EXISTING PIPE.
- IF THE TOTAL DEFLECTION OF ALL JOINTS IN THE TIE IN AREA IS 11.25 DEGREES OR GREATER, ADEQUATE RESTRAINT MUST BE PROVIDED.
- TIE INS BY THE CONTRACTOR MUST BE COORDINATED WITH THE WATER MAINTENANCE SUPERVISOR AT LEAST 72 HOURS IN ADVANCE OF WORK. EXCAVATIONS BY THE CONTRACTOR FOR TIE INS MUST BE APPROVED THE DAY BEFORE WORK IS TO COMMENCE AT EACH TIE IN.
- EXISTING WATER MAINS TO BE TAPPED SHALL BE PERFORMED BY CITY WATER MAINTENANCE UNLESS OTHERWISE APPROVED BY THE ENGINEER. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TAPPING SLEEVE, TAPPING SADDLE, TAPPING VALVE AND ANY OTHER MATERIAL NEEDED TO PERFORM THE TAP INCLUDING EXCAVATION, BACKFILLING, PAVING, AND COMPLETION OF THE WORK TO FINISH GRADE.
- EXISTING PIPES TO BE DEMOLISHED THAT REQUIRE NO FUTURE CONNECTION OR TO BE ABANDONED IN PLACE, SHALL BE REMOVED TO THE EXTENT NECESSARY AS SHOWN AND SEALED BY FILLING WITH TWO LINEAL FEET OF CONCRETE.
- EXISTING PIPES TO BE CUT FOR CONNECTION TO NEW WATER MAINS SHALL BE TEMPORARILY CAPPED.
- PIPES TO BE DEMOLISHED SHALL BE REMOVED EITHER BY SAW CUTTING, REMOVING A COMPLETE PIPE SECTION TO AN EXISTING JOINT, OR OTHER ADEQUATE MEANS WHICH RESULTS IN A CLEAN JOINT FOR CAPPING AND CONNECTING TO A NEW PIPE.
- BACKFLOW PREVENTION DEVICES ON DOMESTIC, IRRIGATION AND FIRE SERVICES SHALL BE FURNISHED AND INSTALLED BY THE CITY OF VALLEJO UPON PAYMENT OF FEES.
- CONTRACTOR SHALL BE REQUIRED TO SECURE TEMPORARY WATER METERS FROM THE CITY FOR ALL WORK REQUIRING THE USE OF CITY WATER. TEMPORARY METERS SHALL BE ISSUED UPON APPLICATION AND PAYMENT OF APPLICABLE DEPOSITS AND FEES.
- WATERMANS ARE TO BE DISINFECTED IN COMPLIANCE WITH ANSI/AWWA C651 AND VALLEJO STANDARD SPECIFICATIONS, AND AS APPROVED BY THE CITY OF VALLEJO INSPECTOR.
- WATER FROM TESTING WATERLINES IS TO BE DECHLORINATED, REMOVED FROM THE PIPE AND DISPOSED OF IN COMPLIANCE WITH ANSI/AWWA C655 AND AS APPROVED BY THE CITY OF VALLEJO INSPECTOR. DECHLORINATION SHALL NOT BEGIN UNTIL AN APPROVED DISPOSAL MECHANISM IS IN PLACE AND FUNCTIONING.
- PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL LOCATE, BY EXCAVATION, EXISTING WATER FACILITIES TO ASCERTAIN VERTICAL AND HORIZONTAL POSITION. IF CONFLICTS ARISE, CONTRACTOR SHALL NOTIFY WATER INSPECTOR.

**PAVING GENERAL NOTES**

- EXISTING ASPHALT PAVEMENT AND CONCRETE PAVEMENT SHALL BE SAW CUT PRIOR TO REMOVAL. THE EXPOSED EDGE OF ASPHALT PAVEMENT SHALL BE TACKED WITH ASPHALT EMULSION PRIOR TO REPAVING.
- FOR TRENCHING IN PAVED AREAS, THE ROAD SECTION SHALL BE RESTORED TO THE AS-BUILT SECTION OF THE TRENCH. IN NO CASE SHALL THE SECTION TO BE LESS THAN THAT IS REQUIRED IN THE TRENCH SECTION DETAIL.
- FOR TRENCHING IN AREAS WITH CONCRETE PAVING, CONCRETE SHALL BE RESTORED TO THE MATCH THE EXISTING THICKNESS.

**CLEARING AND GRUBBING NOTES**

- THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL DEBRIS, UNSUITABLE MATERIALS FOR BACKFILL AND NON-ORGANIC WASTE SUCH AS PIPING, ROCK RUBBLES, ETC., AT AN APPROVED LANDFILL OR OTHER SUITABLE DISPOSAL SITES AT HIS OWN EXPENSE.
- EXISTING PIPES TO BE DEMOLISHED THAT REQUIRE NO FUTURE CONNECTION OR TO BE ABANDONED IN PLACE, SHALL BE REMOVED TO THE EXTENT NECESSARY AS SHOWN AND SEALED BY FILLING WITH TWO LINEAL FEET OF CONCRETE.
- EXISTING PIPES TO BE CUT FOR CONNECTION TO NEW WATER MAINS SHALL BE TEMPORARILY CAPPED.
- PIPES TO BE DEMOLISHED SHALL BE REMOVED EITHER BY SAW CUTTING, REMOVING A COMPLETE PIPE SECTION TO AN EXISTING JOINT, OR OTHER ADEQUATE MEANS WHICH RESULTS IN A CLEAN JOINT FOR CAPPING AND CONNECTING TO A NEW PIPE.

**ABBREVIATIONS**

(abd)	Abandoned	N	North
AC	Asphalt Concrete	NTS	Not to Scale
ACP	Asbestos Concrete Pipe		
ARV	Air Relief Valve	O.D.	Outside Diameter
		OSHA	Occupational Safety and Health Administration
BC	Begin Horizontal Curve	PCC	Portland Cement Concrete
BV, bv	Butterfly Valve	PRS	Point of Reverse Hor. Curve
C&G	Curb and Cutter	R	Pressure Reducing Station
CAV	Combination Air Valve	R/W	Right of Way
CB, cb	Catch Basin	RCP, rcp	Reinforced Concrete Pipe
CIP, cip	Cast Iron Pipe		
DIP, dip	Ductile Iron Pipe		
DR, dr	Density Ratio		
E	East	S	South
EC	End Horizontal Curb	SD, sd	Right of Way
EL, Elev.	Elevation	SDMH, sdmh	Reinforced Concrete Pipe
EP	Edge of Pavement	si	Signal Interconnect
(E)	Existing	SS, ss	Sanitary Sewer
FE	Flange End	SSMH, ssmh	Sanitary Sewer Manhole
FH, fh	Fire Hydrant	ST., St.	Street Station
FL	Flange Joint	SW	Sidewalk
fo	Fiber Optic Lines		
FS	Fire Line Service		
G, g	Gas	T	Telephone
GR., Gr.	Grade	TYP., typ.	Typical
GV, gv	Gate Valve		
HDPE	High Density Polyethylene	USGS	United States Geological Survey
INV	Invert		
JT, jt	Joint Trench		
L	Length		
LF, lf	Linear Feet		
mm	Millimeter		
M, m	Meter		
MJ	Mechanical Joint		
MON	Monument		

**LEGENDS**

EXISTING		PROPOSED	
	Underground Telephone		Utility to be Removed
	Underground Electric		Fire Hydrant
	Gas Line		Water Line & Material
	Gas Fitting		Water Reducer
	Gas Valve		Water Valve
	Water Valve		Gate Valve
	Water Line		Padmount Transformer
	Sanitary Sewer Line		Subsurface Transformer
	Storm Drain Line		Padmount Utility Cabinet
	Catch Basin		Subsurface Utility Vault
	Curb Inlet		Telephone Manhole
	Storm/Sanitary Manhole		Sanitary Sewer Cleanout
	Fire Hydrant		'S' Stamped In Pavement
	Fire Department Connection		Rodding Inlet
	Post Indicator Valve		Water Meter
	Right of Way Line		Backflow Device
	Property Line		Blow Off
	Face of Curb/Edge of Pavement		Cable TV Box or Pedestal
	Valley Gutter		PacBell Telephone Box
	Fence Line		PG&E Splice Box
	Pavement Marking		Street Light Box
	Street Address		Traffic Signal Box
	Solid Sleeve tie		Traffic Signal Interconnect Box
	Contour Elevation		Crosswalk Signal Button
	Spot Elevation		Anode
	City Monument		Electrolysis Test Station
	Utility to be Abandoned		Electrical Pullbox
			Detector Pullbox
			Monitoring Well

CITY OF VALLEJO

WATER DEPARTMENT

WATER MAINS CIP FY18-19 WT8050

GENERAL NOTES, ABBREVIATIONS  
DETAILS AND LEGENDS

DATE: 09/17/2018

SCALE: AS SHOWN

SHEET 2

G-1

OF 12 SHEETS

DRAWING FILE # 12-935

APPROVED: RICHARD WILSON, PE. - ENGINEERING MANAGER

CITY PROJECT # WT8050

DESIGNED BY R. ZAMBRANA

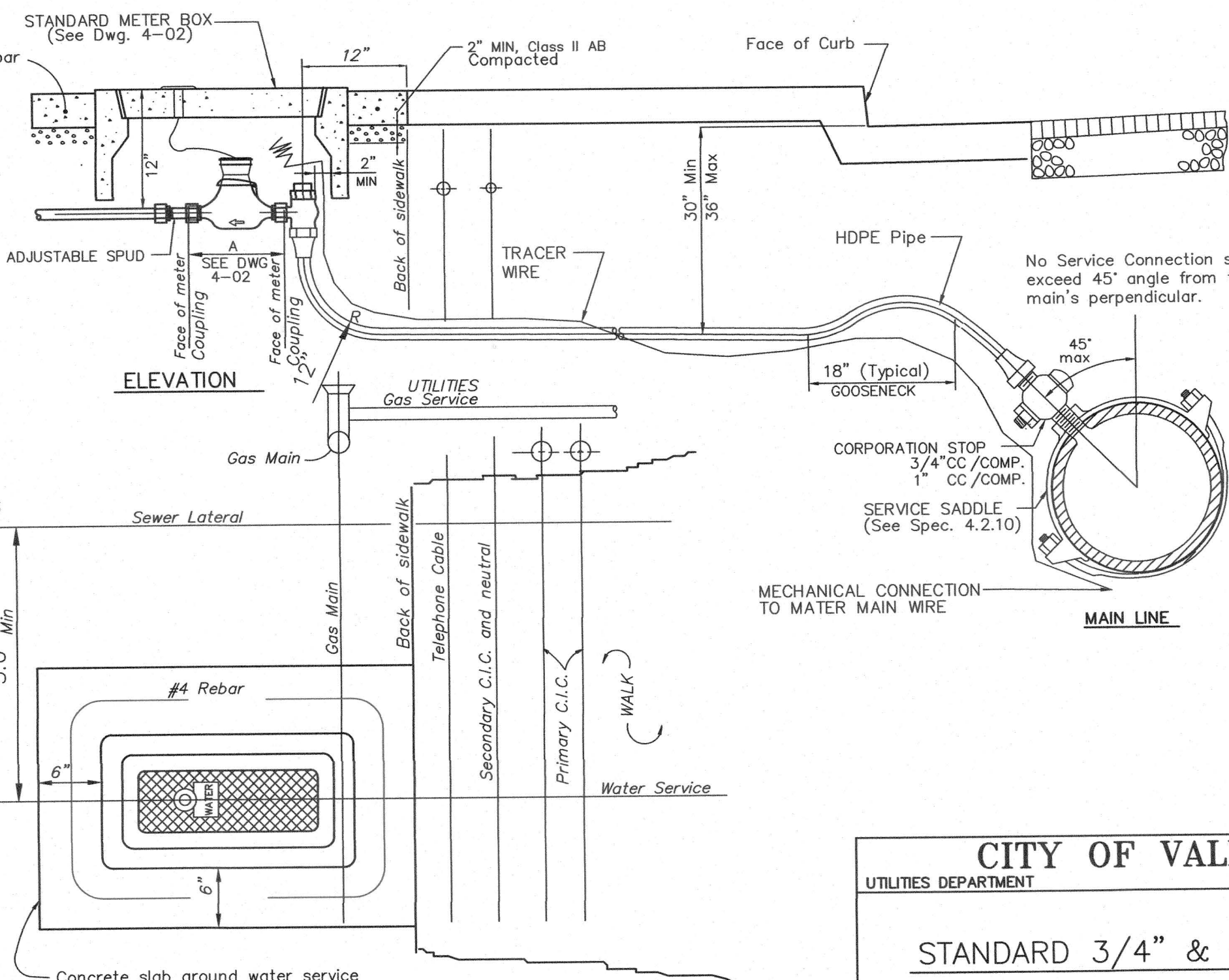
DRAWN BY R. ZAMBRANA

CHECKED BY D. RASMUSSEN V. GONZALEZ



**NOTES:**

- SERVICE SADDLE AND INSULATING BUSHING IS REQUIRED FOR 3/4" AND 1" TAPS INTO DUCTILE IRON AND CAST IRON PIPES
- ALL TAPS INTO POLYETHYLENE ENCASED D.I.P., WHETHER DIRECT TAPPED OR WITH SERVICE SADDLES, SHALL BE ACCOMPLISHED BY FIRST REMOVING 6" WIDE BAND OF POLYWRAP FROM AROUND THE CIRCUMFERENCE OF THE TAPE AT THE LOCATION OF THE TAP. TAPE WRAP BARE PIPE WITH 10 MIL VINYL TAPE, HALF LAPPED TO PROVIDE MINIMUM 20 MILS. OF PROTECTION. SEAL OPEN ENDS OF POLYWRAP WITH TWO WRAPS OF TAPE AT LAP LOCATION.
- FOR DIRECT TAPS DRILL THROUGH TAPE AND INSTALL CORP STOP. AFTER INSTALLATION CAREFULLY TAPE WRAP ALL EXPOSED THREADS AT TAP LOCATION.
- TAPS SHALL BE SPACED A MINIMUM OF 24" ON CENTER FROM BELL, SPIGOT, ANOTHER FITTING OR 60" FROM ANOTHER TAP.
- THE SERVICE LATERAL SHALL BE HDPE PIPE OR APPROVED EQUAL.
- HDPE SERVICE PIPE SHALL BE CONTINUOUS FROM CORPORATION STOP TO CURB STOP. SPICES IN SERVICE RUNS ARE NOT PERMITTED
- MULTIPLE TAPS INTO PVC MAINS SHALL BE LOCATED IN DIFFERENT POSITIONS TO PREVENT CRACK PROPAGATION.
- SEE SPECIFICATIONS SECTION 4.2.9 - SERVICE FITTINGS  
4.2.10 - SERVICE SADDLES



**CITY OF VALLEJO**  
UTILITIES DEPARTMENT      ENGINEERING DIVISION

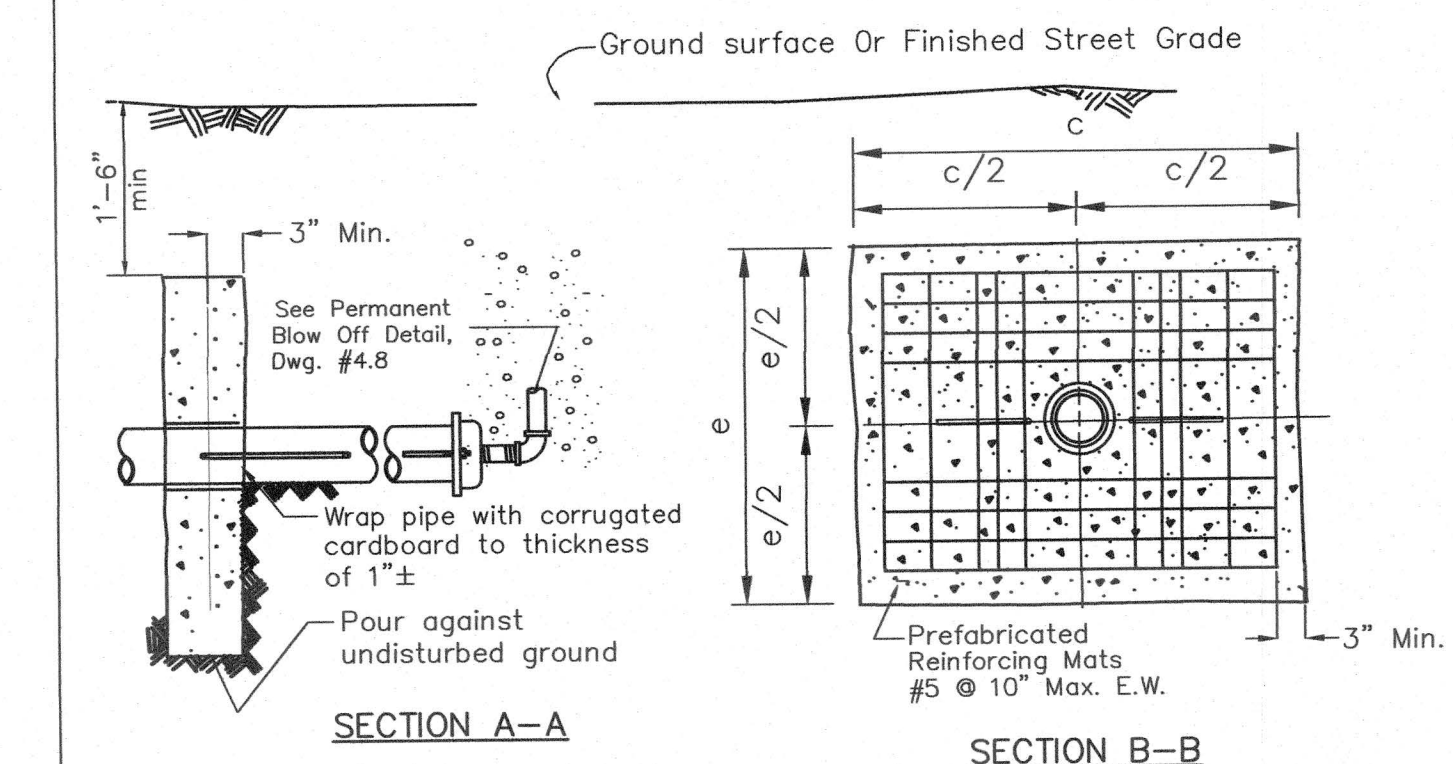
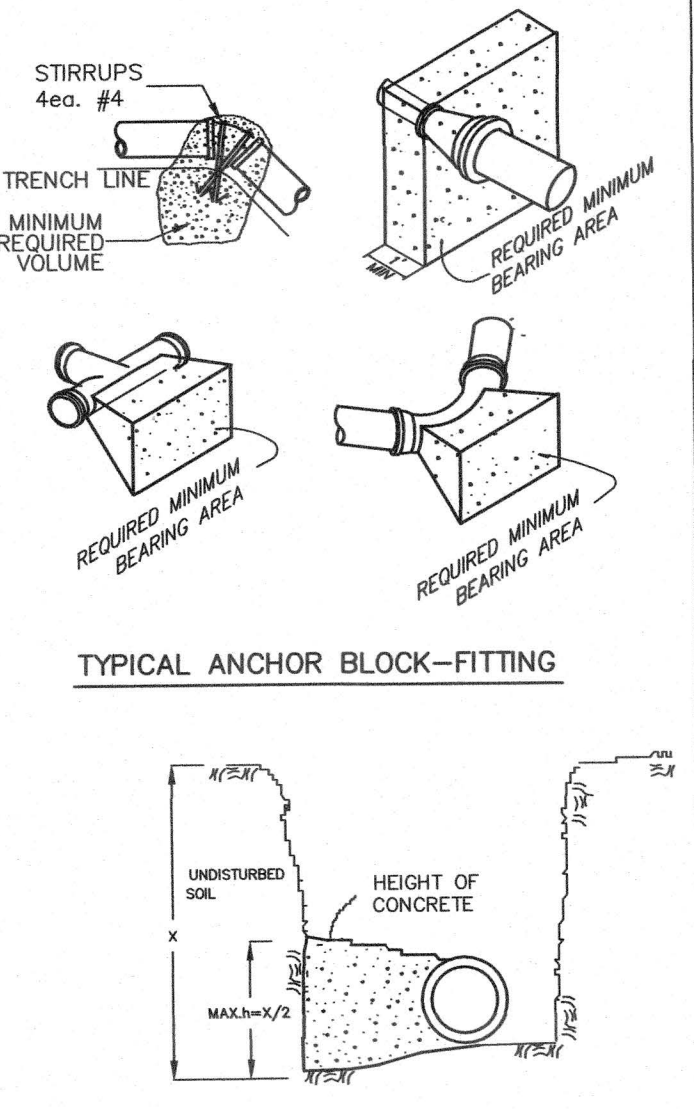
**STANDARD 3/4" & 1" WATER SERVICE INSTALLATION**

DWG. NO. **4-03.B**      DRAWN BY **MS**      SCALE **NONE**  
 JOB NO.      DATE **9-27-16**      SHEET **OF**  
 REF.      CHECKED      FILE NO.      DATE

APPROVED: \_\_\_\_\_ ON \_\_\_\_\_ DATE

DATE	MARK	REVISION	INIT.

PIPE SIZE	FITTING	S.C.	M.C. OR L.G.S.	H.C. OR M.G.S.	ANCHOR BLOCK MIN. VOLUME (CU. YDS.)
4"	11 1/4' BEND	1	1	1	0.2
4"	22 1/2' BEND	2	2	2	0.3
4"	45' BEND	3	2	2	0.5
4"	90' BEND	5	3	2	0.5
4"	TEE/CROSS	4	2	2	0.5
4"	CAP/B.O.	5	3	2	0.5
4"	OFF-SET	-	-	-	0.5
6"	11 1/4' BEND	2	1	1	0.3
6"	22 1/2' BEND	3	2	2	0.5
6"	45' BEND	7	3	2	1.0
6"	90' BEND	12	4	3	1.5
6"	F.H. BURY	12	4	3	1.5
6"	TEE/CROSS	9	3	3	1.0
6"	CAP/B.O.	12	4	3	1.5
6"	OFF-SET	-	-	-	1.0
8"	11 1/4' BEND	3	2	1	0.5
8"	22 1/2' BEND	5	3	2	1.0
8"	45' BEND	10	4	3	2.0
8"	90' BEND	18	7	4	2.5
8"	TEE/CROSS	12	5	4	1.5
8"	CAP/B.O.	18	7	4	2.5
8"	OFF-SET	-	-	-	2.0
12"	11 1/4' BEND	6	3	2	1.0
12"	22 1/2' BEND	12	5	3	2.0
12"	45' BEND	23	9	5	4.0
12"	90' BEND	45	16	9	5.5
12"	TEE/CROSS	32	12	5	3.5
12"	CAP/B.O.	45	16	9	5.5
12"	OFF-SET	-	-	-	4.0
12x8	REDUCER	18	9	6	-
12x6	REDUCER	24	12	8	-
12x4	REDUCER	28	14	9	-
8x6	REDUCER	6	3	2	-
8x4	REDUCER	10	5	3	-
6x4	REDUCER	4	2	1	-



- Notes:**
- Working pressures shall not exceed pressures as indicated on the schedule table
  - Anchor tie rod stock shall be A-36 steel or approved equivalent, and reinforcing bars to be grade 60 steel
  - Apply mastic in accordance with City of Vallejo Specifications
  - Concrete shall have minimum compressive strength of 3000 psi at 28 days
  - Horizontal mat bars may be temporarily removed and replaced to permit pipe placement
  - 2" Blow off piping shall be as detailed in Drawing #4.8 "Permanent Blow Off"
  - Temporary blow-offs are required at the ends of all new lines planned for future extension, future date.

DIAMETER OF PIPE (in)	ALLOWABLE PRESS (psi)	TIE ROD Blank Dimension	DIMENSIONS				
			a	b	c	d	e
6	0-150	5/8"x6'-6"	5'-0"	1'-0"	3'-0"	6'	3'-0"
8	0-150	5/8"x7'-6"	6'-0"	1'-0"	3'-6"	6'	3'-6"
12	0-150	7/8"x10'-0"	7'-9"	1'-0"	6'-1"	1'-3"	4'-9"

**CITY OF VALLEJO**      DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION

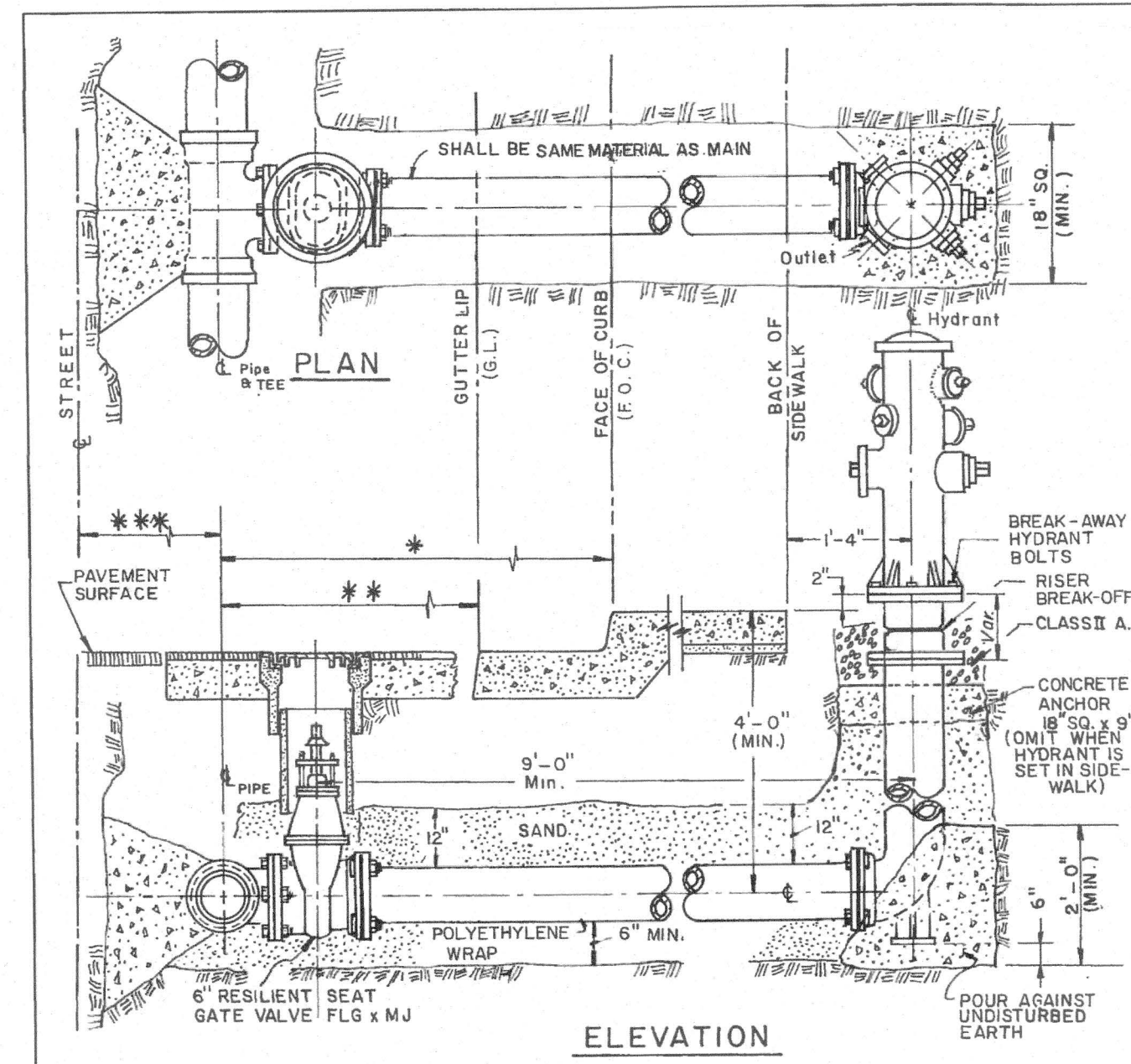
DWG. NO. **4-6**      SHEET \_\_\_\_\_ OF \_\_\_\_\_  
 DRAWN BY **EFR**      FILE NO. \_\_\_\_\_  
 DATE **9-19-91**      REF. \_\_\_\_\_  
 CHECKED **DAS/FJN**      SCALE **NONE**      APPROVED: \_\_\_\_\_ ON \_\_\_\_\_ DATE

**STANDARD THRUST BLOCK & ANCHOR BLOCK DETAILS FOR 4", 6", 8" & 12" FITTINGS**

**CITY OF VALLEJO**      DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION

DWG. NO. **4-7**      SHEET \_\_\_\_\_ OF \_\_\_\_\_  
 DRAWN BY **EFR**      FILE NO. \_\_\_\_\_  
 DATE **9-19-91**      REF. \_\_\_\_\_  
 CHECKED **FJN/DAS**      SCALE **NONE**      APPROVED: \_\_\_\_\_ ON \_\_\_\_\_ DATE

**STANDARD REVERSE ANCHOR AND TEMPORARY BLOW OFF**



**CITY OF VALLEJO STANDARD DETAIL**      APPROVED BY: \_\_\_\_\_  
**STANDARD FIRE HYDRANT INSTALLATION WATER DISTRIBUTION SYSTEM**      DIRECTOR OF PUBLIC WORKS

NOTE: A blue fire hydrant marker of Stansons 88 or equal shall be installed in the street marking the location of each hydrant (public or private) 12" from the centerline on the hydrant side on the centerline.

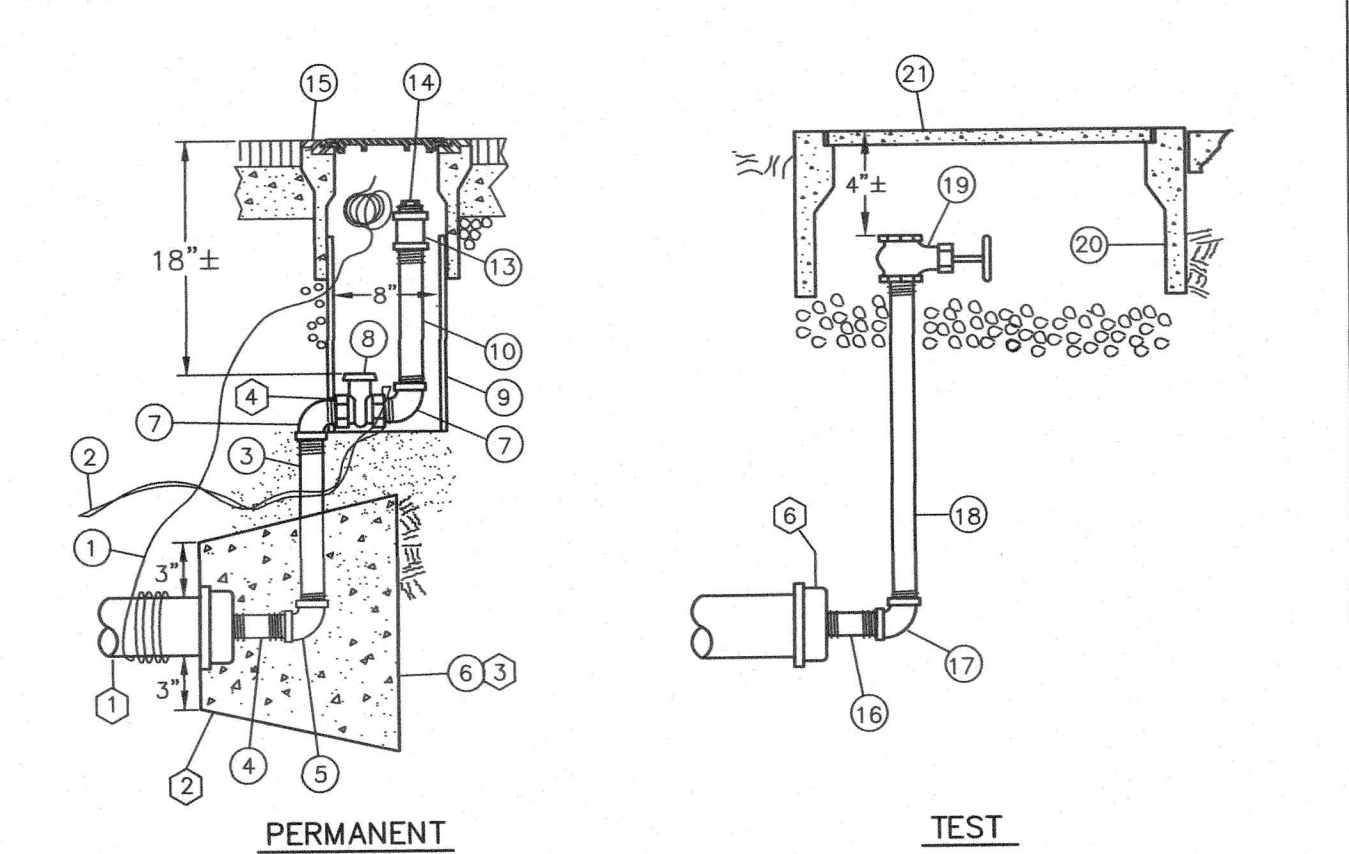
Installation details will be furnished by the Fire Prevention Bureau.

Wrap all metallic surfaces below ground with polyethylene 8mil min. ground pipe sections, 8mil. ground fittings, and valves.

**WATERMAIN REPLACEMENT PROJECTS**

- \* 7'-6" As directed by Engineer
- \* 1'-9" Minimum for 18" trench
- \* 2'-0" Minimum for 24" trench
- \* 2'-3" Minimum for 30" trench
- NEW SUBDIVISIONS
- \*\*\* 10'-0" South or East of street centerline

DWG. NO. **4-05**      SCALE **NONE**  
 DATE **9/13/11**



ITEM	MATERIAL DESCRIPTION	ITEM	MATERIAL DESCRIPTION
1	#10 TRACER WIRE (ALL MAINS)	12	NIPPLE, 2" x 6" RED BRASS
2	BLUE CAUTION TAPE, 3" WIDE	13	COUPLING, 2" RED BRASS
3	NIPPLE, 2" x VARIES, RED BRASS	14	HEX HEAD PLUG, 2" PVC (HAND TIGHT)
4	NIPPLE, 2" x 3" PVC SCH 80	15	VALVE BOX, CHRISTY G-5 OR EQUAL
5	90° ELBOW, 2" RED BRASS	16	NIPPLE, 2" x VARIES GALV. IRON
6	CONC. THRUST BLOCK (SEE DWG. 4-06)	17	90° ELBOW, 2" GALV. IRON
7	90° STREET ELBOW, 2" RED BRASS	18	NIPPLE, 2" x VARIES GALV. IRON
8	BALL VALVE W/ TEE HEAD, 2" IPT x IPT	19	GATE VALVE, 2" BRASS
9	6" COMPACTED SAND	20	METER BOX, CHRISTY B-9 OR EQUAL
10	NIPPLE, 2" x 14", RED BRASS	21	METAL TRAFFIC LID, "B&C"
11	DELETED	22	DELETED

- NOTES:**
- Main size: 6" to 14"
  - Cap or plug shall have 2" top.
  - Thrust block shall be poured against undisturbed earth. When undisturbed earth is not existing, use anchor block dimensions.
  - Cut slots in riser to accommodate piping.
  - Test blowoffs shall be installed at the ends of all new lines for use in pressure testing and bacteria sampling.
  - Thrust restraint for test blow-offs shall be at contractor's option.
  - Permanent blow-offs are required at the ends of all new lines.

**CITY OF VALLEJO**      DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION

DWG. NO. **4-8**      SHEET \_\_\_\_\_ OF \_\_\_\_\_  
 DRAWN BY **EFR**      FILE NO. \_\_\_\_\_  
 DATE **9-19-91**      REF. \_\_\_\_\_  
 CHECKED **FJN/DAS**      SCALE **NONE**      APPROVED: \_\_\_\_\_ ON \_\_\_\_\_ DATE

**STANDARD 2" BLOW OFF ASSEMBLY**

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CITY OF VALLEJO

WATER MAINS CIP FY18-19 WT8050

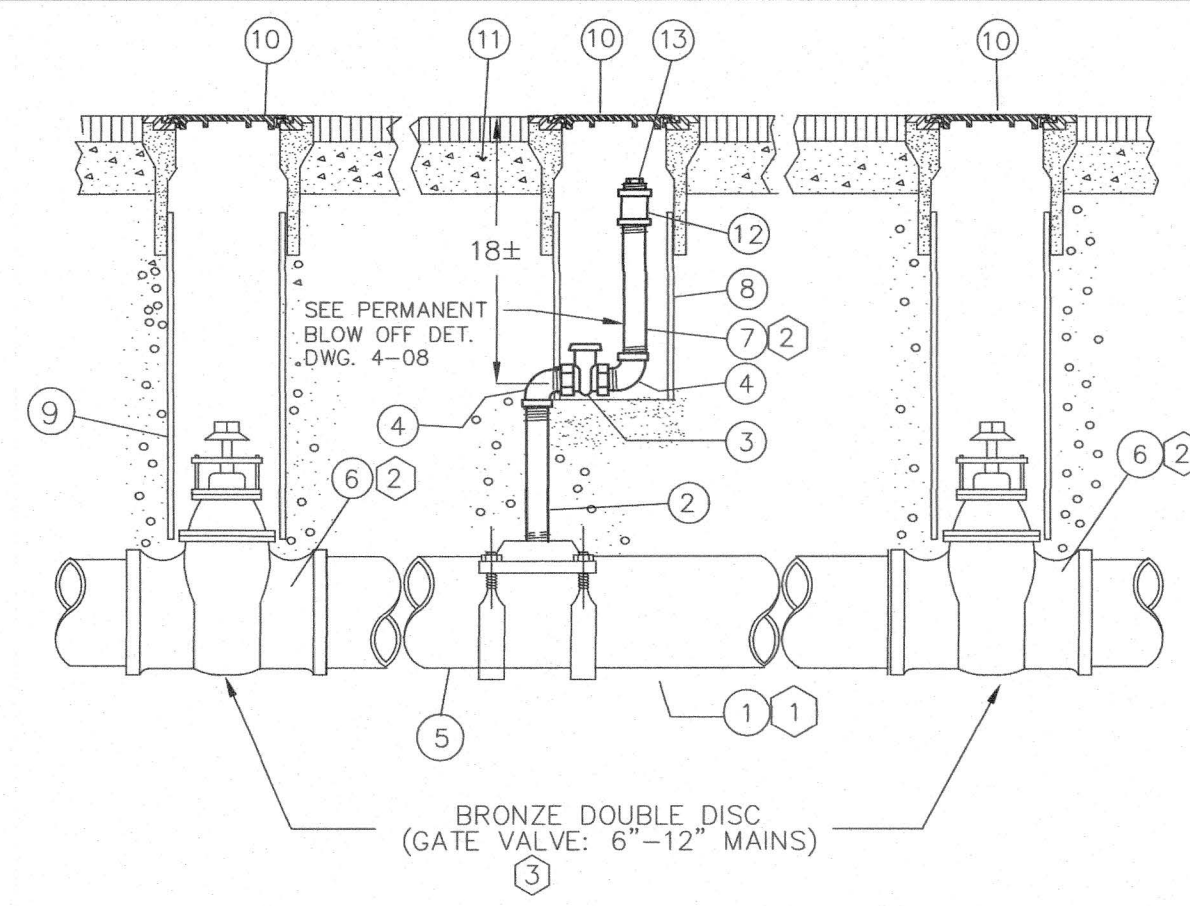
**DETAILS SHEET**

D-1  
OF 12 SHEETS  
DRAWING FILE # 12-935

DATE	MARK	REVISION	INIT.

APPROVED: \_\_\_\_\_  
 RICHARD WILSON, PE. - ENGINEERING MANAGER

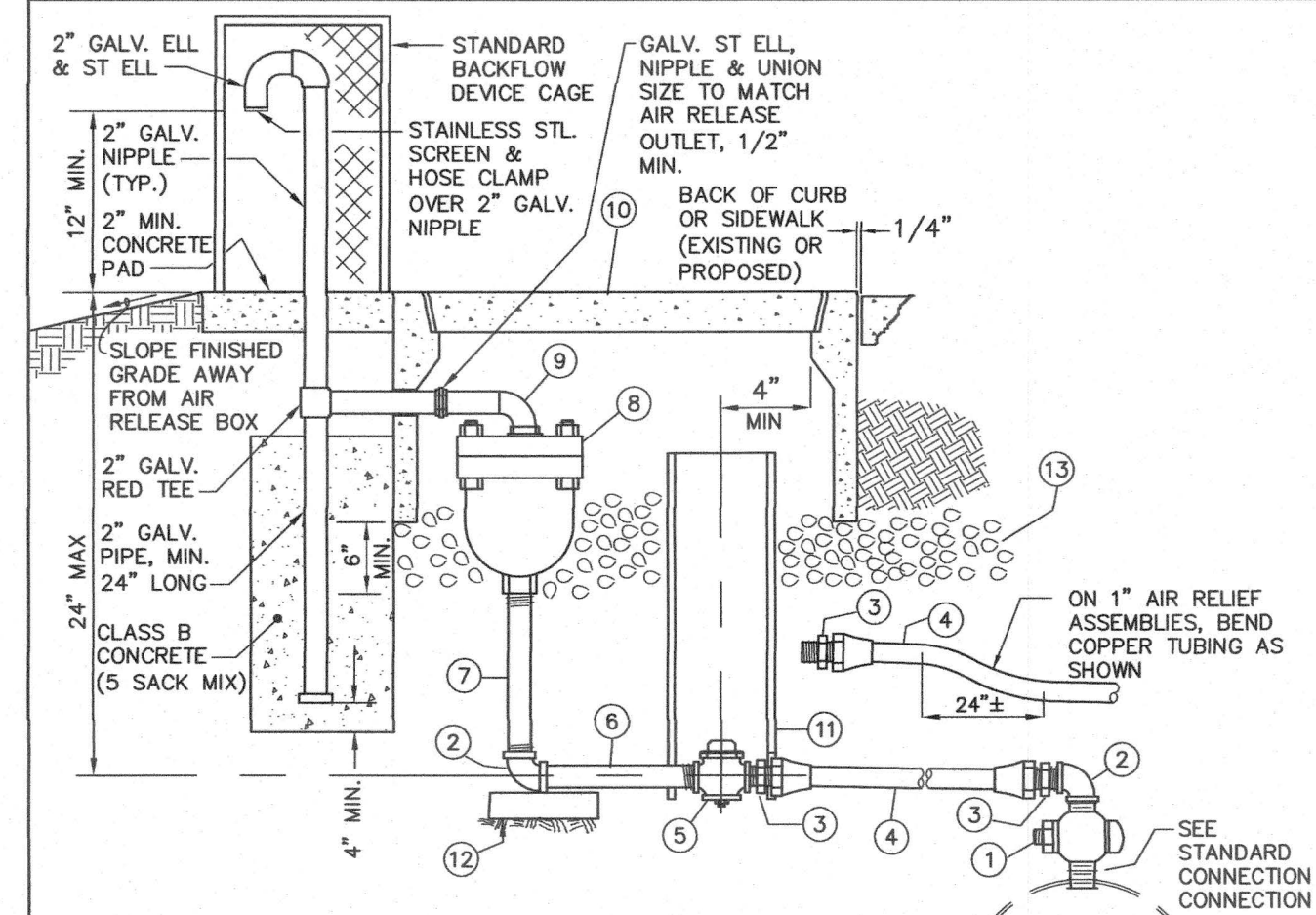




ITEM	MATERIAL DESCRIPTION
1	DOUBLE STRAP BRONZE SADDLE W/ 2" TAP
2	NIPPLE, 2" x VARIES, RED BRASS (SEE DWG 4-08)
3	2" BALL VALVE, BRASS (SEE DWG 4.8)
4	90° STREET ELBOW, 2" x VARIES, RED BRASS
5	SPOOL, PE x PE, 4'-0" LONG
6	DOUBLE DISC GATE VALVE (ALL MAINS) SEE NOTE 3
7	NIPPLE, 2" x 6", RED BRASS
8	RISER-8" x 1'-0", PVC, C-900 (SEE DWG. 4-08)
9	RISER-8" x VARIES, PVC, C-900
10	METER BOX, "CHRISTY G-5, OR EQUAL
11	CONCRETE COLLAR
12	2" BRASS COUPLING
13	HEX HEAD PLUG, 2" PVC (HAND TIGHT)

- NOTES:**
- SEE STANDARD 2" WATER SERVICE CONNECTION DETAIL FOR CORROSION PROTECTION REQUIREMENTS.
  - MAIN LINE VALVES SHALL BE NORMALLY CLOSED. 2" BALL VALVE SHALL BE NORMALLY OPEN
  - MUELLER RESILIENT SEAT GATE VALVES MAY BE USED IN LIEU OF DOUBLE DISC GATE VALVE

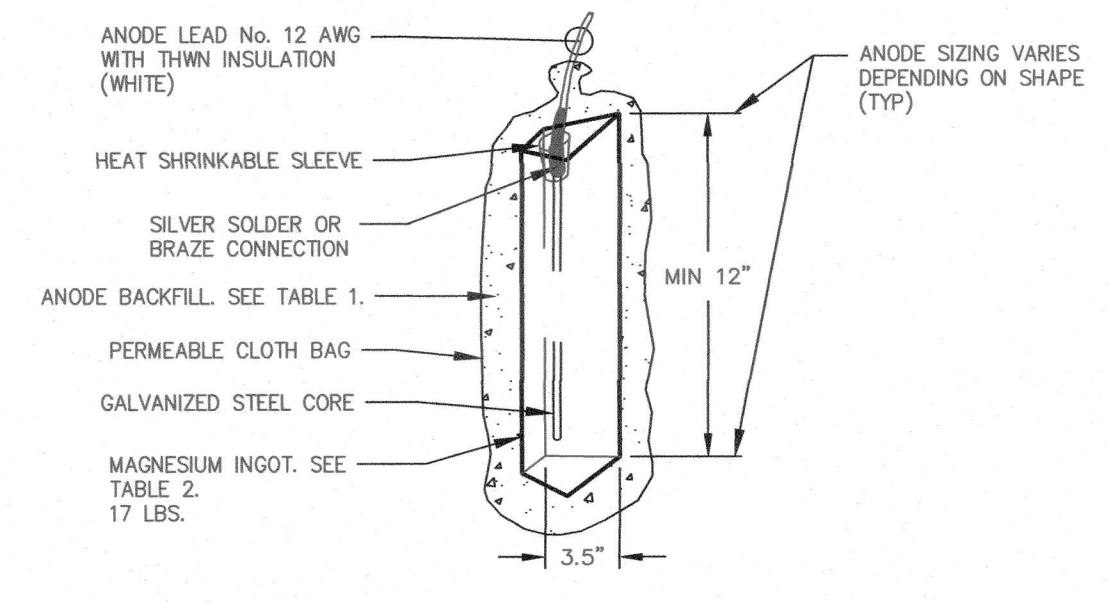
CITY OF VALLEJO STANDARD DETAIL  
**ZONE VALVE ASSEMBLY**  
 APPROVED BY: [Signature]  
 DRAWING NO: 4-12  
 SCALE: NONE  
 DATE: 9/13/11  
 DIRECTOR OF PUBLIC WORKS



ITEM	DESCRIPTION	SIZE	ITEM	DESCRIPTION	SIZE
1	CORPORATION STOP	1" 2"	8	AIR RELEASE VALVE	1" 2"
2	90° ELBOW(BRASS)	1" 2"	9	COMBINATION AIR/VAC	1" 2"
3	ADAPTER (PT X COMP)	1" 2"	8	90° ELBOW (PVC)	1" 2"
4	COPPER TUBING	1" 2"	10	METER BOX B-16	-
5	CURB STOP (BRONZE)	1" 2"	11	METER BOX B-36	-
6	DOUBLE DISC GATE VALVE (ALL MAINS) SEE NOTE 3	1" 2"	12	6" PVC Pipe w/ slot	-
7	NIPPLE (BRASS)	1" 2"	13	BRICK	-
7	NIPPLE (PVC SCH 80)	1" 2"			

- NOTES:**
- MAINTAIN AN UPWARD GRADE FROM CORPORATION STOP AT MAIN TO AIR VALVE (2% MIN.)
  - INSTALL AT LOCATION DIRECTED BY THE ENGINEER
  - LINE AND COAT AIR VALVE WITH 8 MILS (MIN) FACTORY APPLIED EOPXY.
  - CONCRETE COATING AND LINING, DAMAGED BY INSTALLATION OF WELDED COUPLINGS, SHALL BE REPAIRED WITH FIELD APPLIED CEMENT MORTAR AS APPLICABLE.
  - FOR COPPER TUBING, USE TYPE "K" ASTM B-88-55, SOFT COPPER.
  - METER BOX SHALL BE AS MANUFACTURED BY "CHRISTY" OR APPROVED EQUAL.
  - AIR RELEASE VALVE SHALL BE "APCO" MODEL 143C OR APPROVED EQUAL.

CITY OF VALLEJO STANDARD DETAIL  
**1" & 2" AIR RELIEF VALVE COMBINATION AIR/VACUUM AND AIR RELEASE VALVE**  
 APPROVED BY: [Signature]  
 DRAWING NO: 4-13  
 SCALE: NONE  
 DATE: 9/13/11  
 DIRECTOR OF PUBLIC WORKS



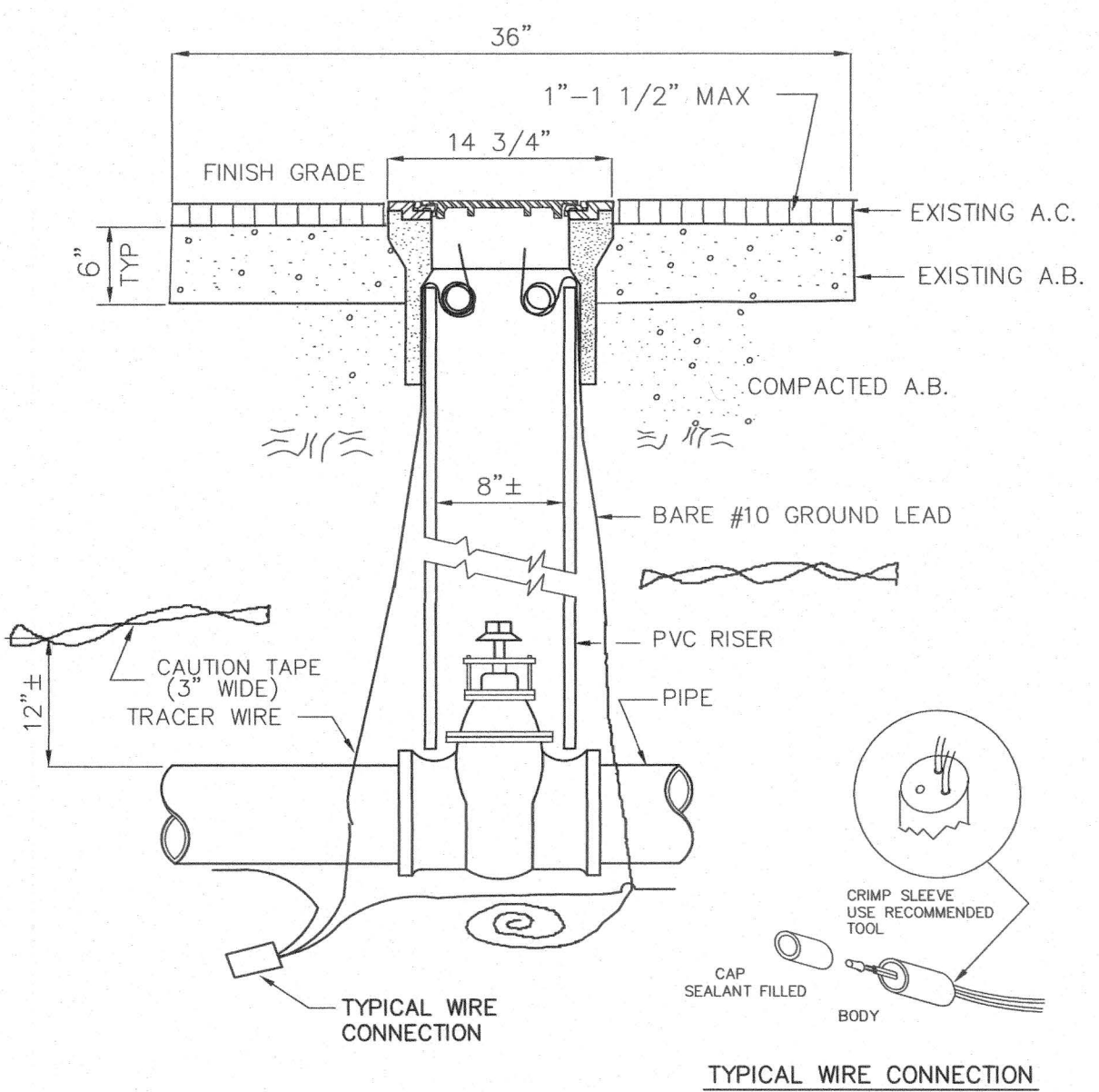
- NOTES:**
- ANODE LEAD WIRE: ANODE LEAD WIRE SHALL BE AWG No.12 STRANDED COPPER WIRE WITH THIN INSULATION CONFORMING TO UL STANDARD 83. WIRE SHALL BE CONNECTED TO THE STRAP CORE WITH SILVER SOLDER. THE CONNECTION SHALL BE MECHANICALLY SECURED BEFORE SOLDERING AND SHALL HAVE AT LEAST ONE & ONE-HALF TURNS OF WIRE AT THE CONNECTION. THE CONNECTION SHALL THEN BE INSULATED BY FILLING THE REMAINDER OF THE RECESS WITH ELECTRICAL POTTING COMPOUND. ANODE LEAD WIRE SHALL BE OF SUFFICIENT LENGTH TO EXTEND FROM THE ANODE TO THE DESIGNATED TERMINATION POINT WITHOUT A SPLICE. WIRES WITH CUT OR DAMAGED INSULATION WILL NOT BE ACCEPTED AND REPLACEMENT OF THE ENTIRE LEAD WILL BE REQUIRED AT THE CONTRACTOR'S EXPENSE.
  - ANODE SOAKING: PREPACKAGED MUST BE PRE-SOAKED IN WATER FOR AT LEAST 15 MINUTES BEFORE INSTALLING IN THE TRENCH. AFTER COVERING THE ANODE WITH NATIVE, ROCK FREE SOIL (APPROXIMATELY 3 INCHES OVER THE ANODE) THE ANODE AND INITIAL BACKFILL SHALL BE FURTHER SOAKED WITH 15 TO 20 GALLONS OF WATER AND ALLOWED TO SOAK FOR 15 MINUTES. THE REMAINDER OF THE TRENCH FOR THE ANODE IS BACKFILLED WITH NATIVE SOIL.
  - WAX TAPE WRAP:
    - SURFACES REQUIRING WAX TAPE: ALL BURIED PIPING SYSTEM SURFACES NOT COATED WITH THE PRIMARY PIPE COATING SUCH AS FLANGES, VALVES, COUPLINGS, INSULATING FLANGES, ADAPTERS UNCOATED PIPE SPOOLS OR SPECIALTY FITTINGS.
    - MATERIAL AND APPLICATION STANDARD: PER STANDARD SPECIFICATION SECTION 4.2.18

TABLE 1 BACKFILL COMPOSITION		
75% GYPSUM		
20% BENTONITE		
5% SODIUM SULFATE		

TABLE 2 MAGNESIUM ANODE ALLOY COMPOSITION HIGH & STANDARD POTENTIALS		
POTL Element	Weight%	Standard
Al	0.01 Max	5.3 to 6.7
Mn	0.05 to 1.3	0.15 to 0.30
Zn	0.002 Max	0.002 Max
Cu	0.02 Max	0.02 Max
Ni	0.001 Max	0.002 Max
Fe	0.025 Max	0.003 Max
Si	0.002 Max	0.10 Max
Other	0.05 each Max and 0.3 Total	0.05 each Max and 0.3 Total
Mg	Balance	Max Balance

CITY OF VALLEJO STANDARD DETAIL  
**STANDARD MAGNESIUM ANODE**  
 APPROVED BY: [Signature]  
 DRAWING NO: 4-23  
 SCALE: NONE  
 DATE: 05/01/14  
 DIRECTOR OF PUBLIC WORKS

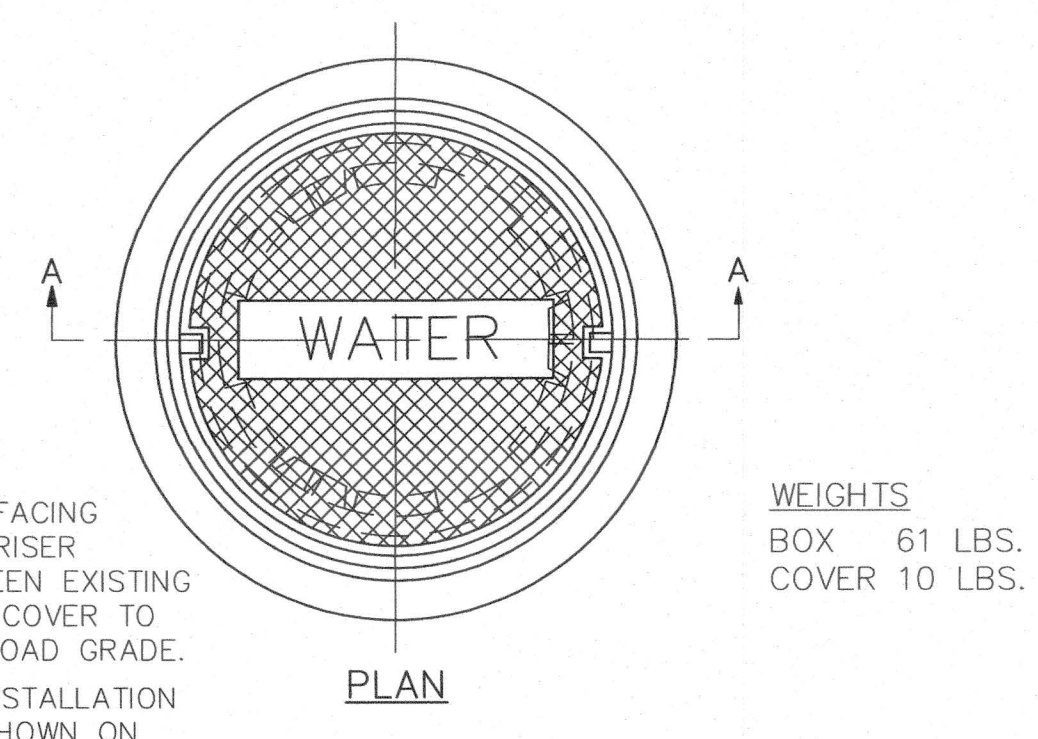


**VALVE COATING**  
 WRAP ENTIRE VALVE, TO OPERATING NUT, WITH POLYWRAP, 16 MILS MINIMUM.

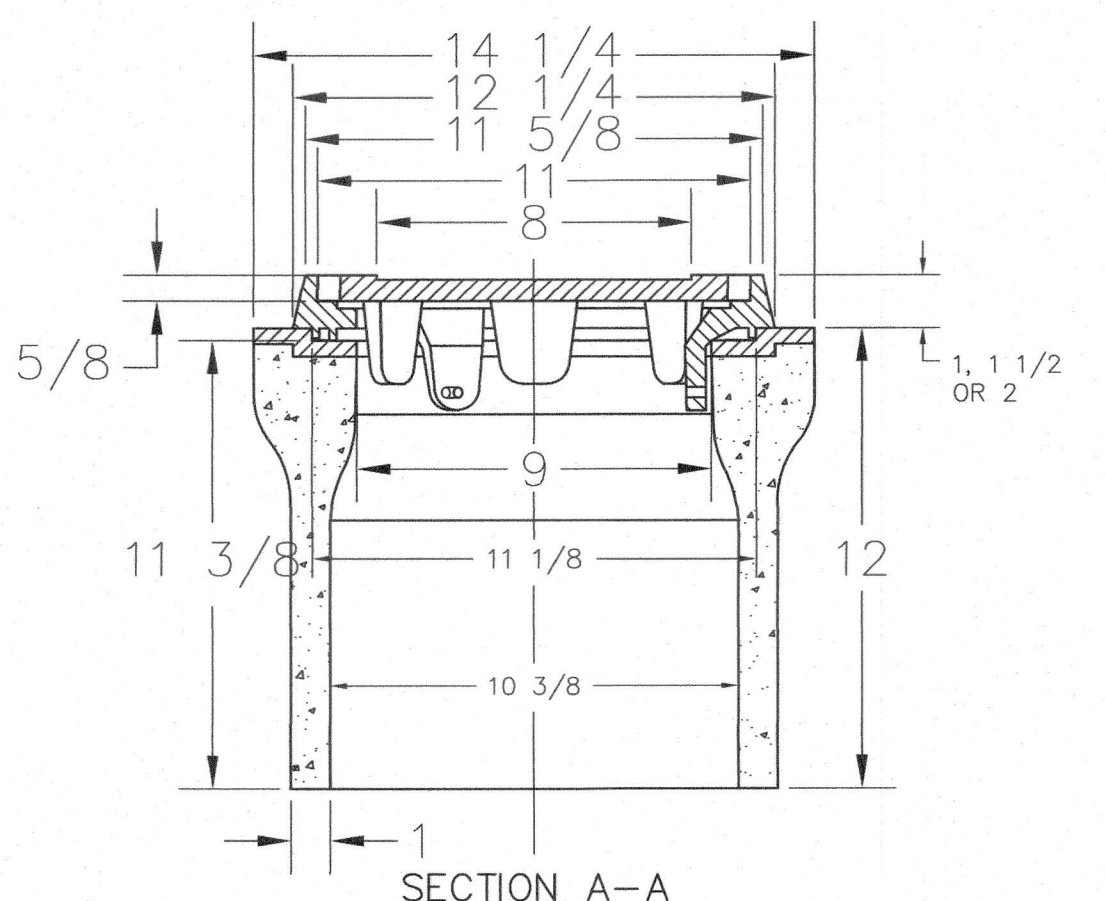
**TRACER WIRE**  
 ALL PIPES INCLUDING D.I.P. SHALL HAVE A TRACER WIRE, (#10 SOLID COPPER TW OR THHN), LAID ON THE TRENCH BOTTOM AND CENTERED UNDER THE PIPE. A CONTACT LEAD SHALL BE PROVIDED INSIDE THE VALVE POT AT ALL VALVE LOCATIONS. A BARE #10 COPPER GROUND LEAD SHALL BE PROVIDED AS SHOWN. TRACER WIRE MAY BE LOOPED INSIDE VALVE BOX AT IN-LINE VALVES.

**CAUTION TAPE**  
 LOCATOR TAPE SHALL BE BLUE PLASTIC TAPE, 3" WIDE, MARKED "WATER LINE BURIED BELOW". LAY TAPE 12" ABOVE PIPE.

CITY OF VALLEJO STANDARD DETAIL  
**VALVE ASSEMBLY & TRACER WIRE INSTALLATION**  
 APPROVED BY: [Signature]  
 DRAWING NO: 4-14  
 SCALE: NONE  
 DATE: 9/13/11  
 DIRECTOR OF PUBLIC WORKS



- NOTES**
- WHEN RESURFACING ROAD, ADD RISER RING BETWEEN EXISTING FRAME AND COVER TO MEET NEW ROAD GRADE.
  - BASE AND INSTALLATION TO BE AS SHOWN ON CITY STD. DWG. 4-14.
- WEIGHTS**  
 BOX 61 LBS.  
 COVER 10 LBS.



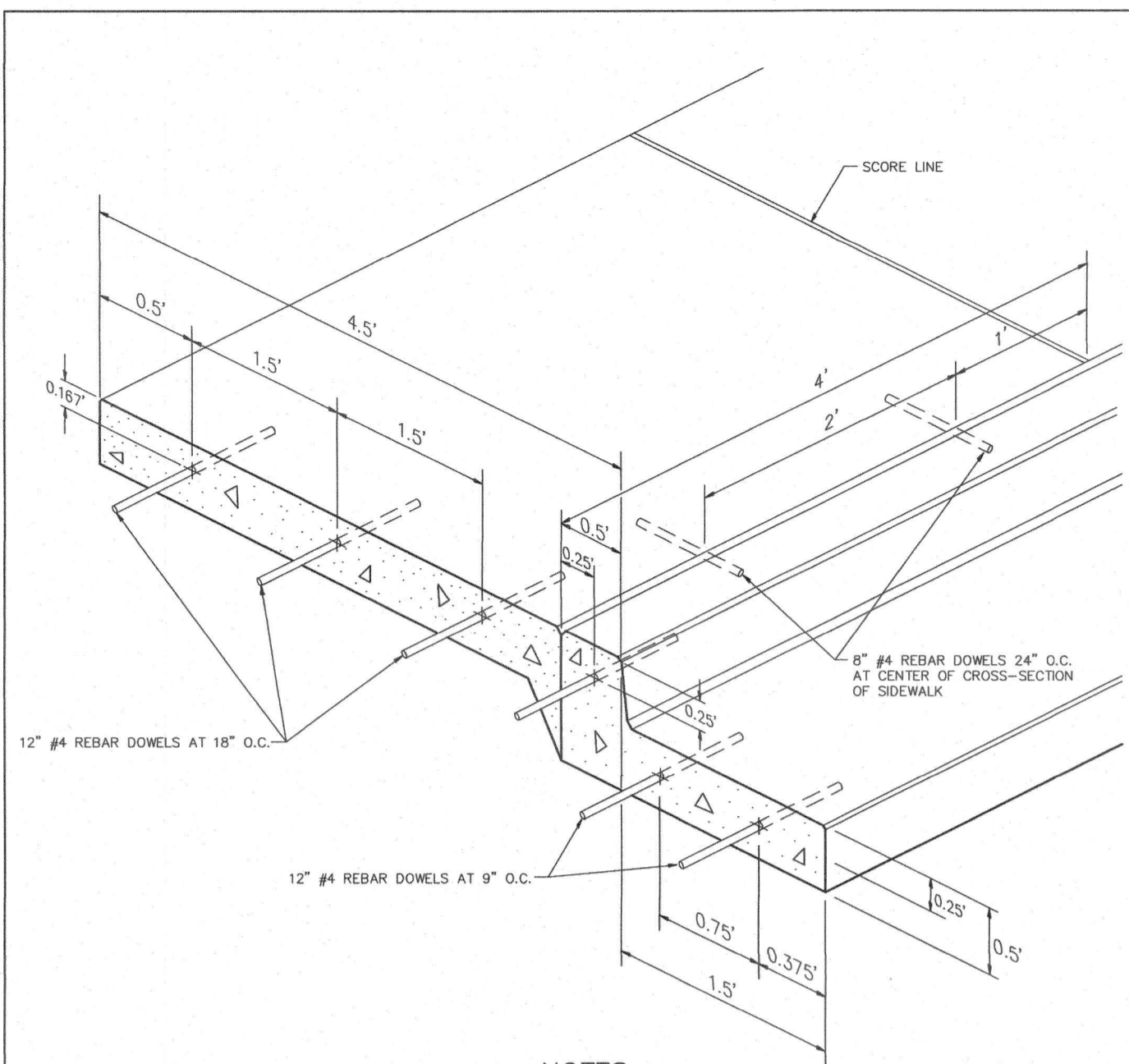
CITY OF VALLEJO STANDARD DETAIL  
**VALVE ASSEMBLY WATER VALVE BOX**  
 APPROVED BY: [Signature]  
 DRAWING NO: 4-14A  
 SCALE: NONE  
 DATE: 9/13/11  
 DIRECTOR OF PUBLIC WORKS

9/13/2018 7:36 AM VICADD016-2019 WNCIP04-D2-DETAIL SHEET.DWG

CITY OF VALLEJO  
 WATER DEPARTMENT  
 CITY PROJECT # WTR050  
 DESIGN BY R. ZAMBRANA  
 DRAWN BY R. ZAMBRANA  
 CHECKED BY D. RASMUSSEN/V. GONZALEZ  
 DATE 09/17/2018  
 SCALE AS SHOWN  
 SHEET 4  
 D-2  
 OF 12 SHEETS  
 DRAWING FILE # 12-935

APPROVED: RICHARD WILSON, PE. - ENGINEERING MANAGER ON 9/28/14

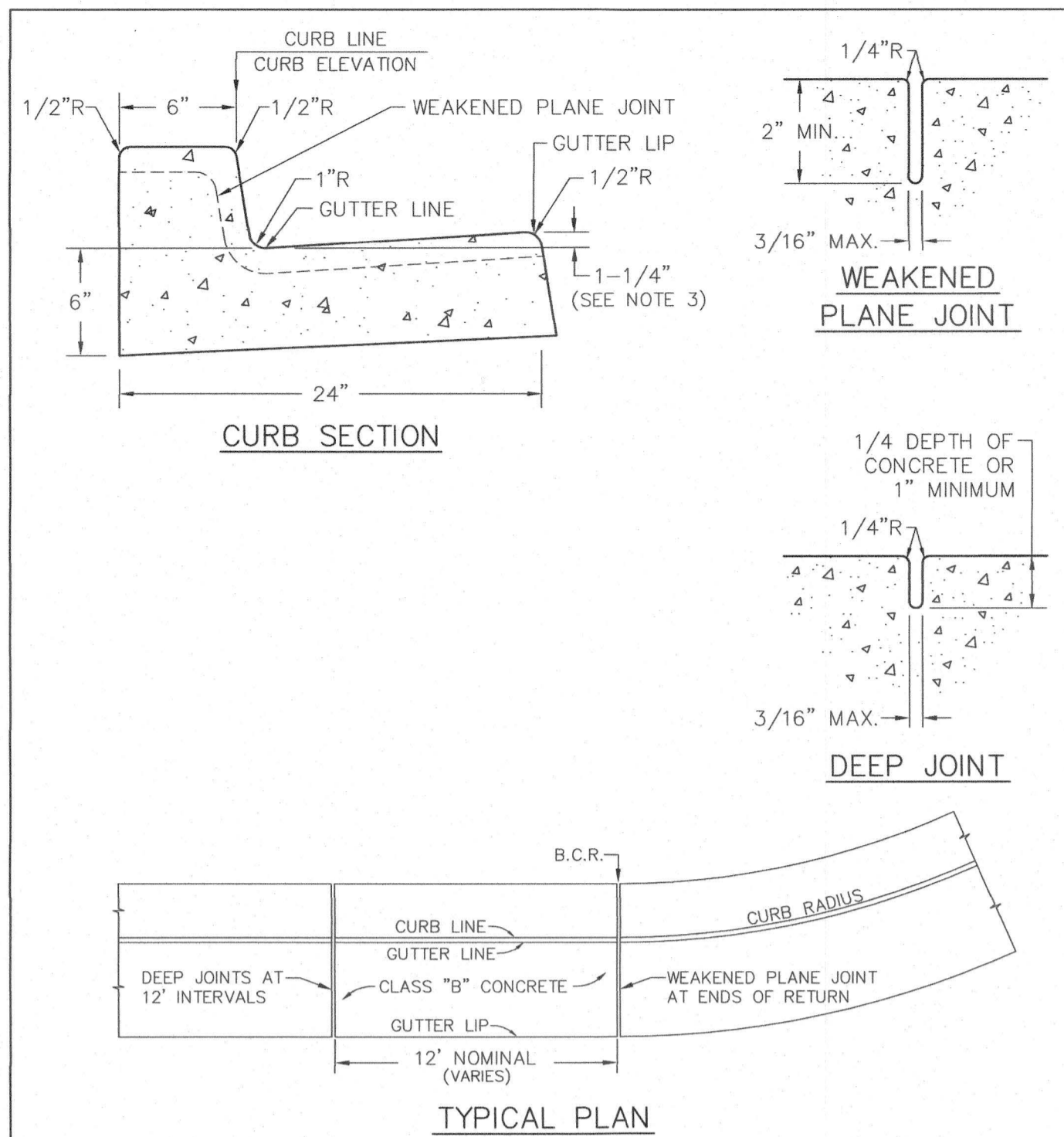




**NOTES**

1. DOWELS SHALL BE INSTALLED AS SHOWN BETWEEN NEW SIDEWALK AND EXISTING CURB AND GUTTER, OR VICE VERSA.
2. DOWELS SHALL BE INSTALLED AS SHOWN AT BOTH ENDS OF NEW IMPROVEMENTS AS THEY TIE INTO EXISTING SIDEWALK, AND/OR CURB AND GUTTER. (EXCEPTION - SEE NOTE 3)
3. DOWELS SHALL NOT BE INSTALLED WHERE AN EXPANSION JOINT EXISTS, OR IS REQUIRED. EXISTING EXPANSION JOINT SHALL BE REPLACED AS REQUIRED.
4. SAWCUTS ARE TYPICALLY MADE AT EXISTING SCORE LINES.

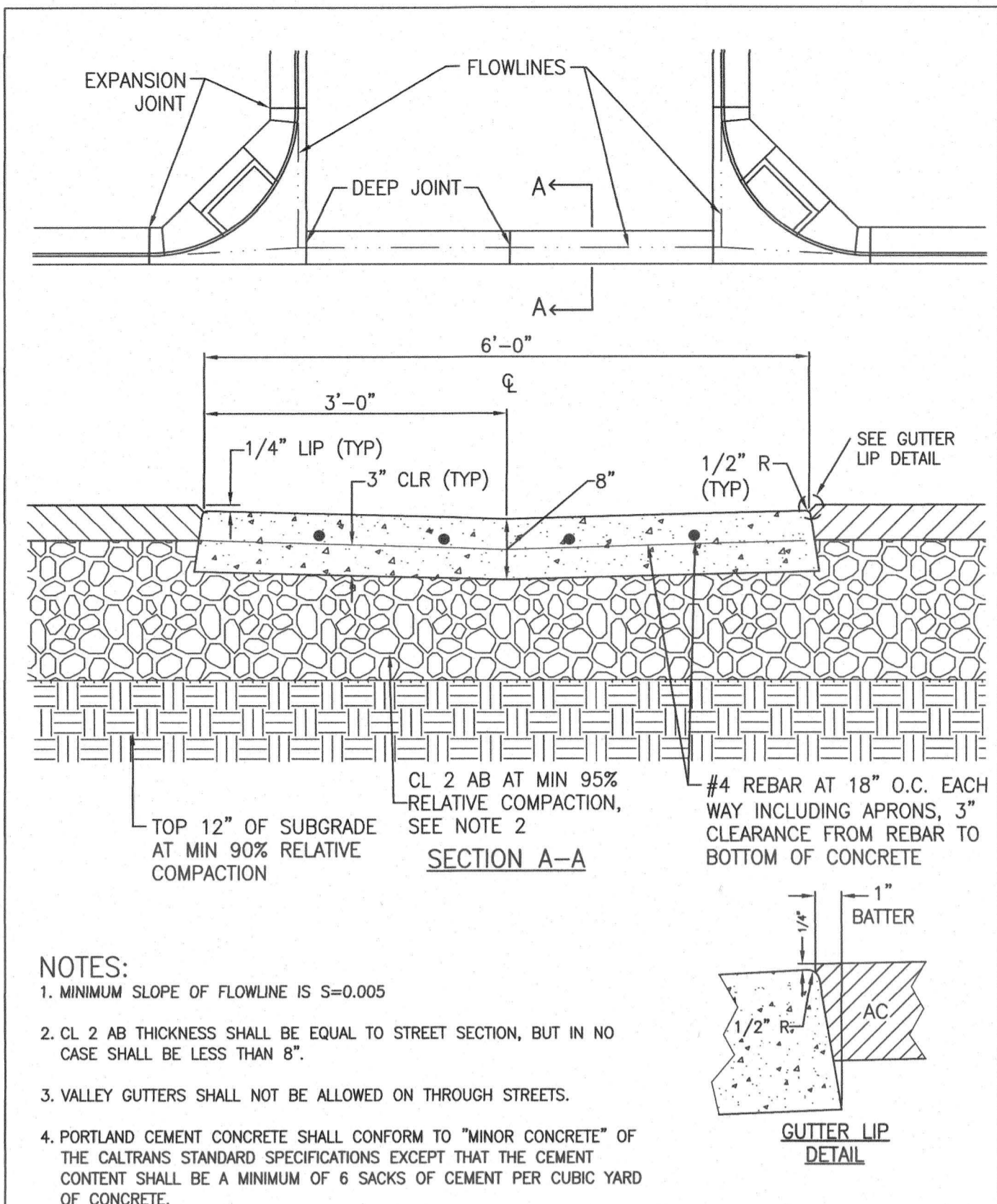
**CITY OF VALLEJO STANDARD DETAIL**  
**STANDARD CURB, GUTTER, & SIDEWALK DOWELING DETAIL**  
 APPROVED BY: [Signature]  
 DIRECTOR OF PUBLIC WORKS  
 DRAWING NO: **3-08**  
 SCALE: NONE  
 DATE: 09/13/11



**GENERAL NOTES**

1. BROOM FINISH UNLESS OTHERWISE DIRECTED.
2. USE PIGMENTED SEALING COMPOUND FOR CURING.
3. EXCEPT WHERE ELEVATIONS SHOWN INDICATE OTHERWISE.

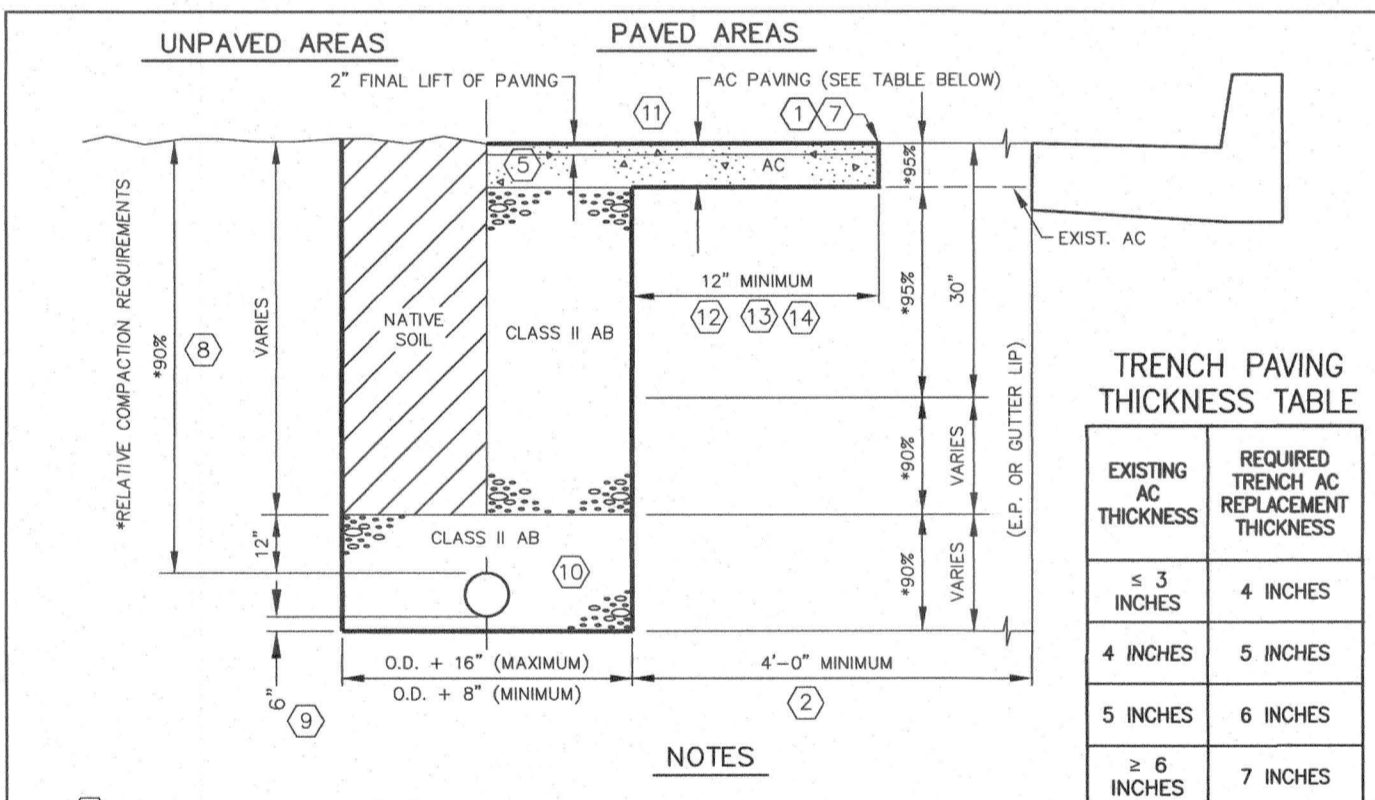
**CITY OF VALLEJO STANDARD DETAIL**  
**STANDARD EXPANSION AND OTHER JOINT DETAILS**  
 APPROVED BY: [Signature]  
 DIRECTOR OF PUBLIC WORKS  
 DRAWING NO: **3-09**  
 SCALE: NONE  
 DATE: 09/13/11



**NOTES:**

1. MINIMUM SLOPE OF FLOWLINE IS S=0.005
2. CL 2 AB THICKNESS SHALL BE EQUAL TO STREET SECTION, BUT IN NO CASE SHALL BE LESS THAN 8".
3. VALLEY GUTTERS SHALL NOT BE ALLOWED ON THROUGH STREETS.
4. PORTLAND CEMENT CONCRETE SHALL CONFORM TO "MINOR CONCRETE" OF THE CALTRANS STANDARD SPECIFICATIONS EXCEPT THAT THE CEMENT CONTENT SHALL BE A MINIMUM OF 6 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.

**CITY OF VALLEJO STANDARD DETAIL**  
**STANDARD VALLEY GUTTER**  
 APPROVED BY: [Signature]  
 DIRECTOR OF PUBLIC WORKS  
 DRAWING NO: **3-11**  
 SCALE: NONE  
 DATE: 09/13/11

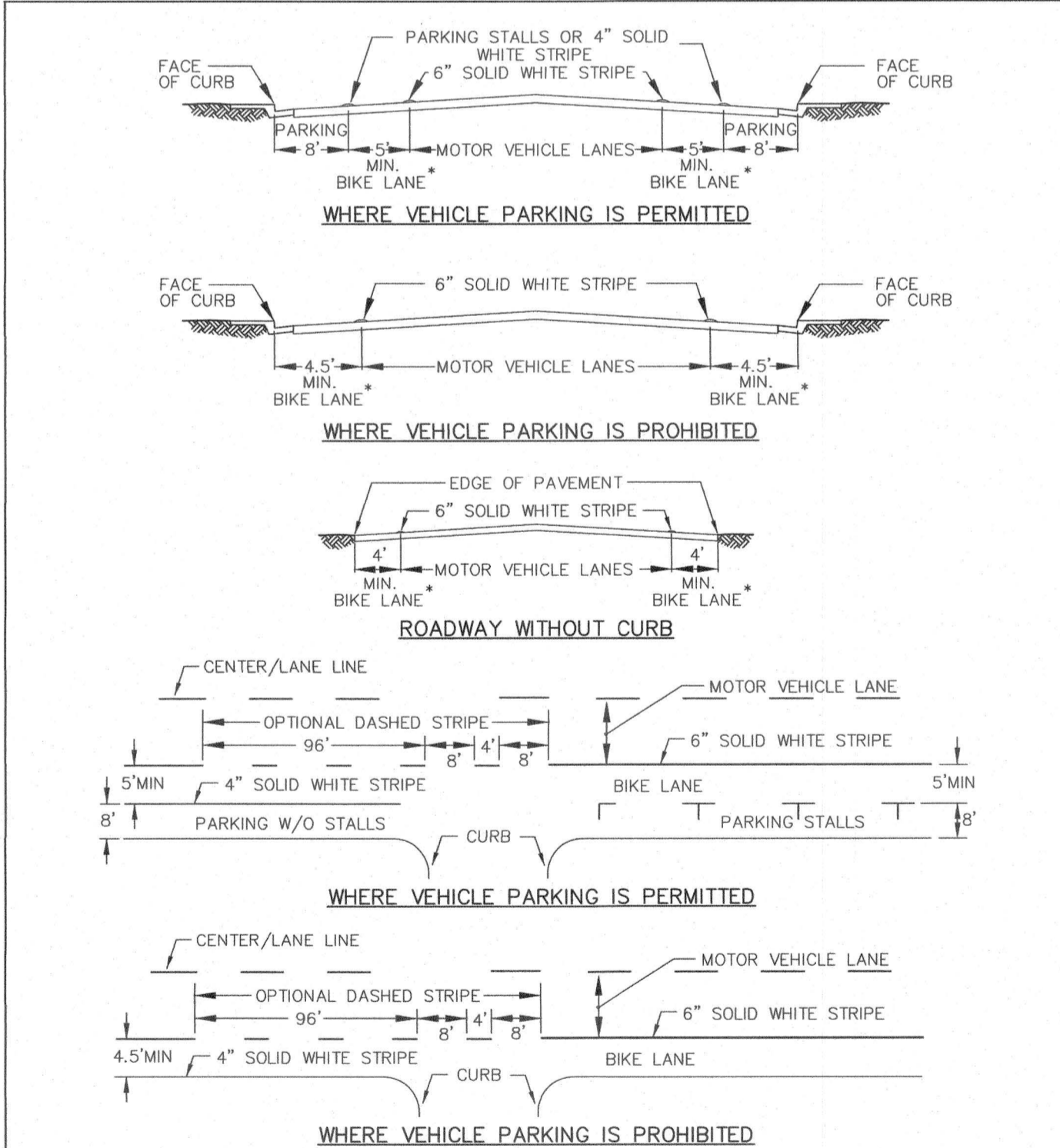


**TRENCH PAVING THICKNESS TABLE**

EXISTING AC THICKNESS	REQUIRED TRENCH AC REPLACEMENT THICKNESS
≤ 3 INCHES	4 INCHES
4 INCHES	5 INCHES
5 INCHES	6 INCHES
≥ 6 INCHES	7 INCHES

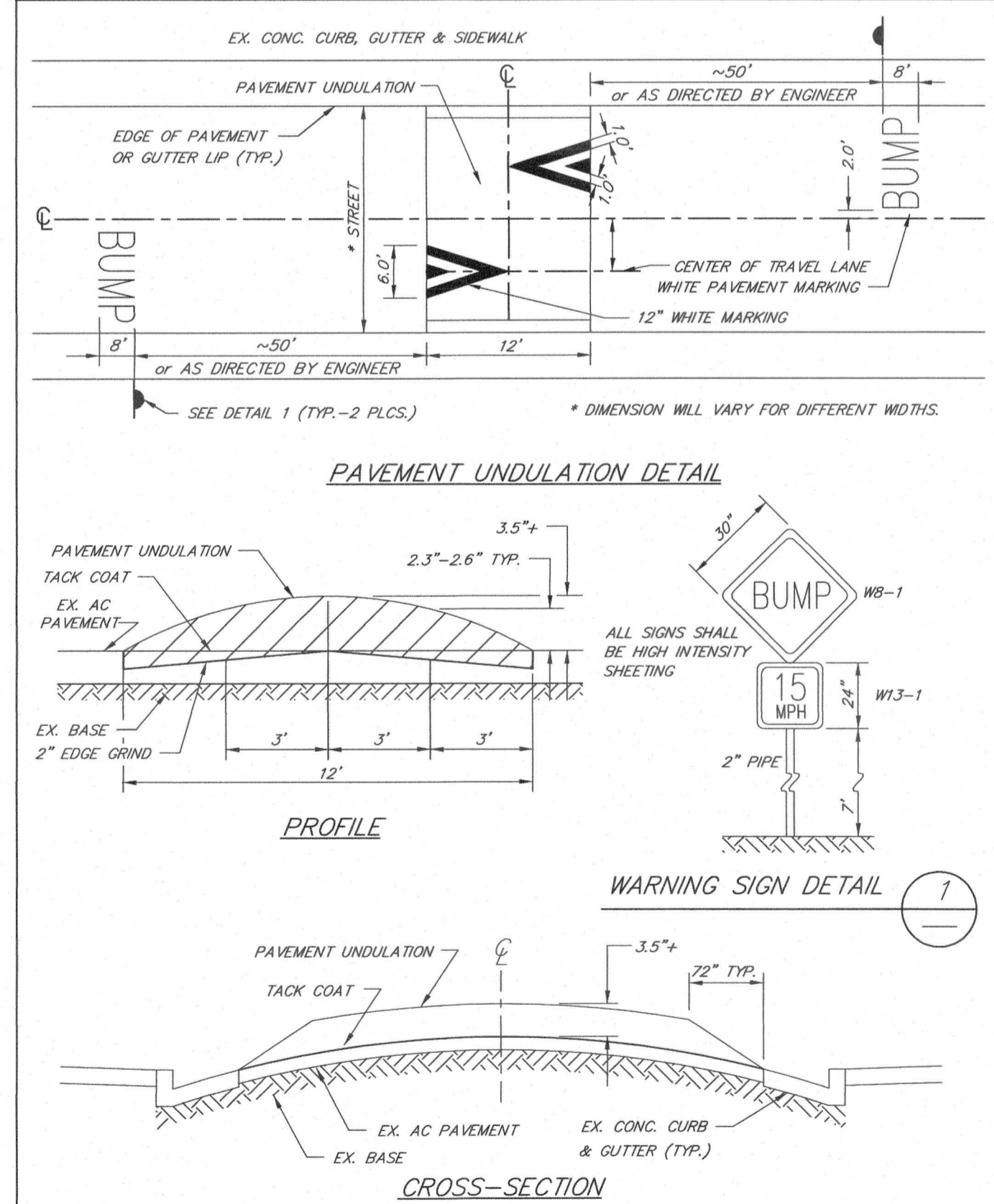
- NOTES**
1. ASPHALT CONCRETE (AC) MUST BE SAWCUT FULL DEPTH.
  2. IF DISTANCE BETWEEN EDGE OF TRENCH TO GUTTER LIP (OR EDGE OF PAVEMENT) IS 4' OR LESS, THEN REMOVE ALL AC UP TO GUTTER LIP (OR E.P.) AND REPAVE.
  3. SHORING SHALL BE REQUIRED FOR TRENCH DEPTH OF 5'-0" OR GREATER AND WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED.
  4. IN BACKFILLING UTILITY WIRES, A MAXIMUM OF 12" OF SAND ABOVE THEM WILL BE PERMITTED.
  5. AC SHALL BE TYPE B; 1/2" MAX.; AND MEDIUM GRADING. TO INSURE ADEQUATE BONDING, A TACK COAT (SS-1) SHALL BE APPLIED OVER EXISTING AC PAVEMENT AND A PRIME COAT (MC-250) SHALL BE APPLIED OVER COMPACTED AB (SS-1 MAYBE SUBSTITUTED FOR EXISTING STREETS). USE OF MC-250 SHALL COMPLY WITH E.P.A. (ENVIRONMENTAL PROTECTION AGENCY) REGULATIONS.
  6. TRAFFIC CONTROL AND WARNING SIGNS SHALL BE PER THE MANUAL OF TRAFFIC CONTROLS; PUBLISHED BY THE DEPARTMENT OF TRANSPORTATION, STATE OF CALIFORNIA.
  7. SPRAY AC JOINT WITH SS-1.
  8. IN PREVIOUSLY UNDEVELOPED AREAS TO BE PAVED; THE RELATIVE COMPACTION REQUIREMENTS IS AS SHOWN UNDER PAVED AREAS.
  9. IF SURROUNDING MATERIALS ARE OF A HIGHLY IMPERMEABLE COMPOSITION, THEN TYPE I BEDDING IS REQUIRED.
  10. USE SAND BACKFILL FOR DUCTILE IRON PIPE.
  11. MATCH EXISTING AC THICKNESS IF GREATER THAN 4".
  12. STREET PAVEMENT CONSTRUCTED WITHIN THE MORATORIUM PERIOD (5 YEARS) SHALL BE GROUND AND PAVED A MINIMUM DEPTH OF 2 IN. THICKNESS AND A MINIMUM WIDTH OF 20 FEET FROM EACH SIDE OF TRENCH CENTER LINE FROM GUTTER LIP TO GUTTER LIP OF THE EXISTING ROADWAY UNLESS APPROVED BY THE CITY ENGINEER.
  13. GRINDING AND PAVING SHALL BE PERFORMED AFTER THE TYPICAL BACKFILL & PAVING OF TRENCH HAS BEEN COMPLETED AND INSPECTED.
  14. THE EDGE OF THE GRIND AND PAVE AREA SHALL BE PERPENDICULAR TO ALL CONTIGUOUS LANES OF A TRAVELED WAY. THE DISTANCE BETWEEN EACH PERPENDICULAR EDGE SHALL NOT BE GREATER THAN 10 FEET NOR LESS THAN 5 FEET.

**CITY OF VALLEJO STANDARD DETAIL**  
**STANDARD TYPICAL TRENCH BACKFILL**  
 APPROVED BY: [Signature]  
 DIRECTOR OF PUBLIC WORKS  
 DRAWING NO: **3-29**  
 SCALE: NONE  
 DATE: 09/13/11



**NOTE:**  
 \* ALL BIKEWAY ROUTES SHALL BE POSTED WITH STATE REGULATORY AND GUIDE SIGNS AS DIRECTED.

**CITY OF VALLEJO STANDARD DETAIL**  
**TYPICAL BIKE LANE CROSS-SECTION AND LANDE MARKINGS**  
 APPROVED BY: [Signature]  
 DIRECTOR OF PUBLIC WORKS  
 DRAWING NO: **7-13**  
 SCALE: NONE  
 DATE: 09/13/11



**CITY OF VALLEJO STANDARD DETAIL**  
**STANDARD SPEED HUMPS & PAVEMENT UNDULATIONS**  
 APPROVED BY: [Signature]  
 DIRECTOR OF PUBLIC WORKS  
 DRAWING NO: **7-15**  
 SCALE: NONE  
 DATE: 09/13/11

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**CITY OF VALLEJO**  
 WATER DEPARTMENT

APPROVED: [Signature] 9/28/18  
 MICHAEL WILSON, PE., - ENGINEERING MANAGER

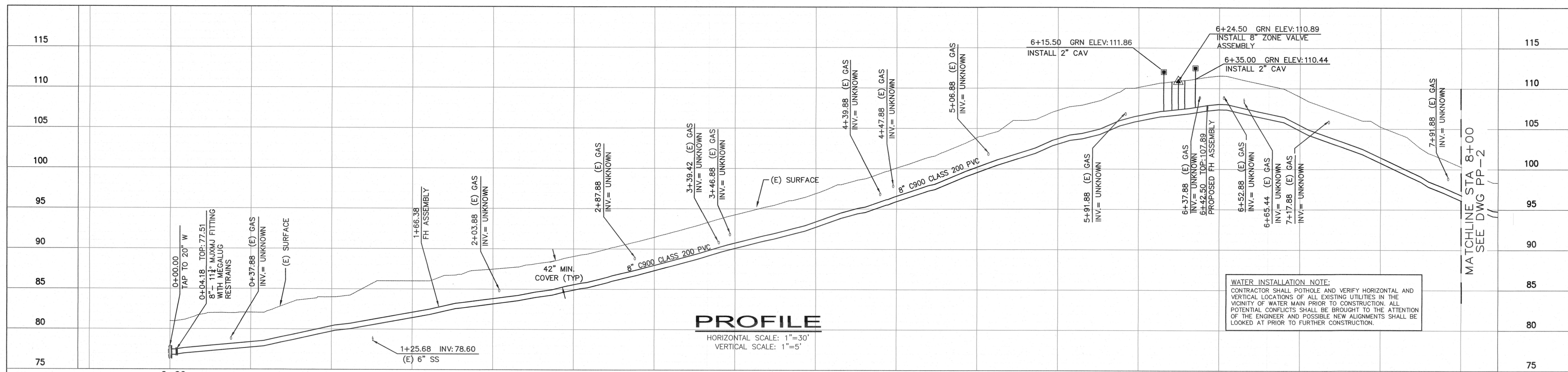
**DETAILS SHEET**

WATER MAINS CIP FY18-19 WTR050

NO.	DATE	REVISION

CITY PROJECT # **WTR050**  
 DESIGN BY **R. ZAMBRANA**  
 DRAWN BY **R. ZAMBRANA**  
 CHECKED BY **D. RASMUSSEN V. GONZALEZ**  
 DATE **09/17/2018**  
 SCALE **AS SHOWN**  
 SHEET **5**  
**D-3**  
 OF 12 SHEETS  
 DRAWING FILE # **12-935**

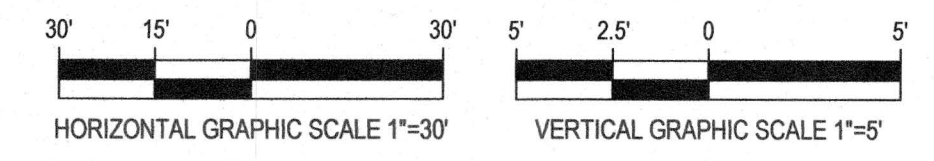




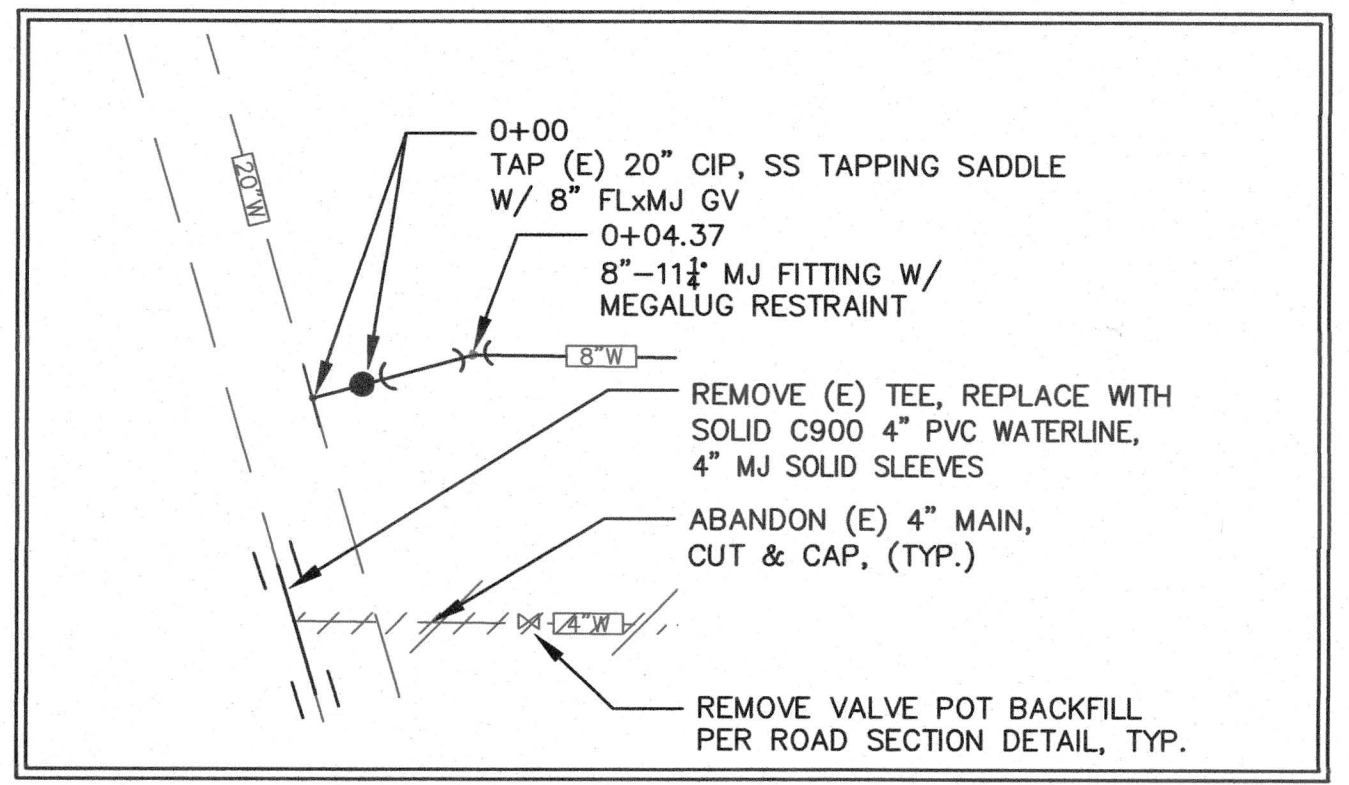
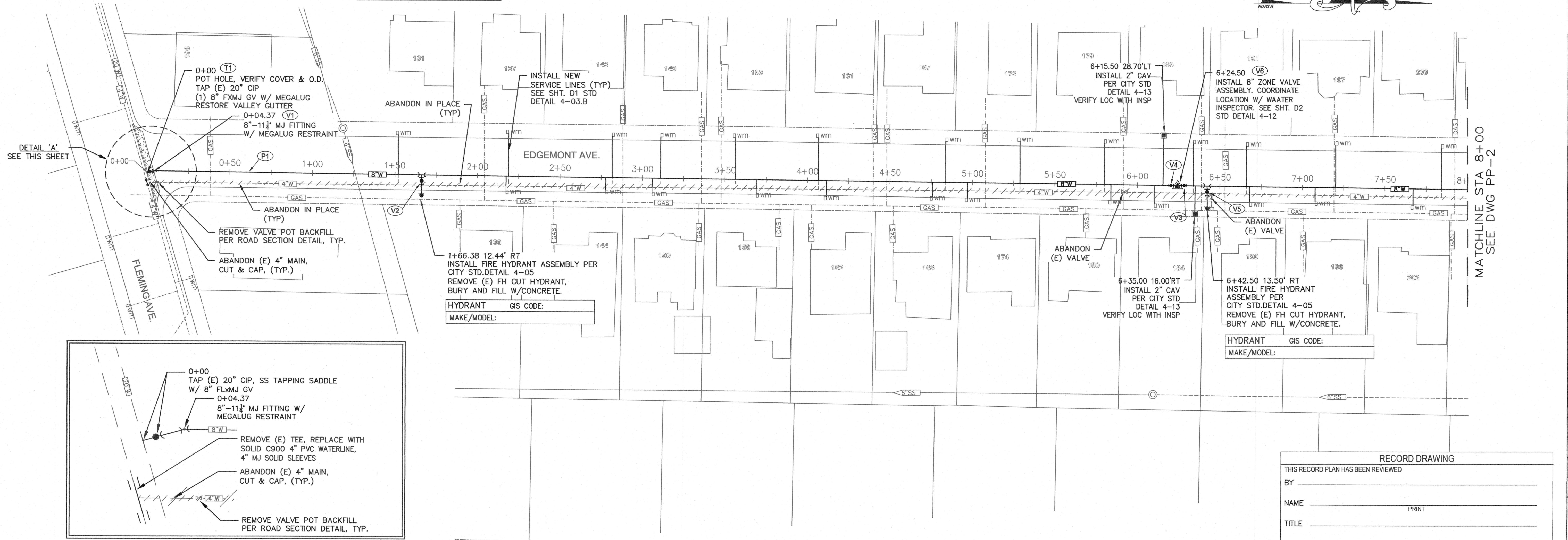
**WATER INSTALLATION NOTE:**  
 CONTRACTOR SHALL POT HOLE AND VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES IN THE VICINITY OF WATER MAIN PRIOR TO CONSTRUCTION. ALL POTENTIAL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND POSSIBLE NEW ALIGNMENTS SHALL BE LOOKED AT PRIOR TO FURTHER CONSTRUCTION.

**PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=5'

<b>VALVE (V1) GIS CODE:</b> SIZE: _____ TYPE: _____ TURNS: _____ ENDS: _____ DEPTH OF OPERATING NUT: _____ DIRECTION TO OPEN: _____ MODEL: _____ USE: _____	<b>VALVE (V3) GIS CODE:</b> SIZE: _____ TYPE: _____ TURNS: _____ ENDS: _____ DEPTH OF OPERATING NUT: _____ DIRECTION TO OPEN: _____ MODEL: _____ USE: _____	<b>VALVE (V5) GIS CODE:</b> SIZE: _____ TYPE: _____ TURNS: _____ ENDS: _____ DEPTH OF OPERATING NUT: _____ DIRECTION TO OPEN: _____ MODEL: _____ USE: _____	<b>PIPE (P1) GIS CODE:</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ ENDS: _____ MAKE/MODEL: _____ PIPE COVER (DEPTH): _____ RESTRAINED JOINTS? YES NO THRUST BLOCKS? YES NO	<b>PIPE (P3) GIS CODE:</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ ENDS: _____ MAKE/MODEL: _____ PIPE COVER (DEPTH): _____ RESTRAINED JOINTS? YES NO THRUST BLOCKS? YES NO
<b>VALVE (V2) GIS CODE:</b> SIZE: _____ TYPE: _____ TURNS: _____ ENDS: _____ DEPTH OF OPERATING NUT: _____ DIRECTION TO OPEN: _____ MODEL: _____ USE: _____	<b>VALVE (V4) GIS CODE:</b> SIZE: _____ TYPE: _____ TURNS: _____ ENDS: _____ DEPTH OF OPERATING NUT: _____ DIRECTION TO OPEN: _____ MODEL: _____ USE: _____	<b>VALVE (V6) GIS CODE:</b> SIZE: _____ TYPE: _____ TURNS: _____ ENDS: _____ DEPTH OF OPERATING NUT: _____ DIRECTION TO OPEN: _____ MODEL: _____ USE: _____	<b>PIPE (P2) GIS CODE:</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ ENDS: _____ MAKE/MODEL: _____ PIPE COVER (DEPTH): _____ RESTRAINED JOINTS? YES NO THRUST BLOCKS? YES NO	<b>PIPE ASSESSMENT AT TIE IN (T1)</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ INTERIOR LINING: _____ LINING CONDITION: _____ PIPE COVER (DEPTH): _____ RESTRAINED JOINTS? YES NO OVERALL PIPE CONDITION: _____ PAVEMENT THICKNESS: _____



\*SPECIAL NOTE:  
 REFER TO CITY STANDARD SPECIFICATION SECTION 7.3.8  
 "SIGNAL INTERCONNECT CABLE" (si) IF FIBER OPTIC CABLE  
 (fo) OR SI CABLE IS DAMAGED.



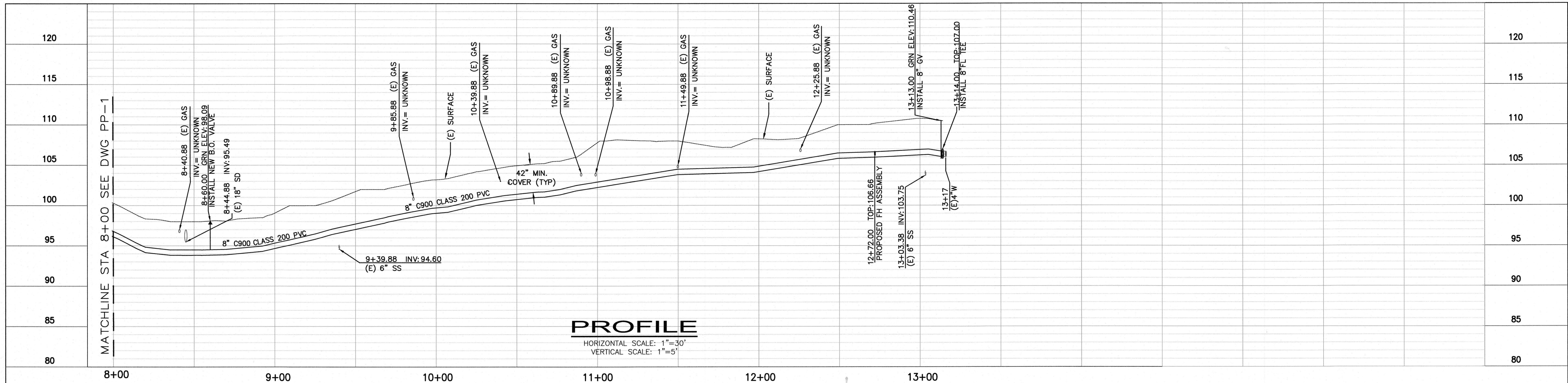
**PLAN**  
 HORIZONTAL SCALE: 1"=30'

**RECORD DRAWING**  
 THIS RECORD PLAN HAS BEEN REVIEWED  
 BY: \_\_\_\_\_  
 NAME: \_\_\_\_\_ PRINT  
 TITLE: \_\_\_\_\_  
 DATE: \_\_\_\_\_

INIT.	
REVISION	
MARK	
DATE	
CITY OF VALLEJO WATER DEPARTMENT 9/28/18 APPROVED: RICHARD WILSON, PE. - ENGINEERING MANAGER	
WATER MAINS CIP FY18-19 WT8050 <b>EDGEMONT AVE</b> FROM FLEMING AVE TO CLAREMONT AVE	
CITY PROJECT #	WTR050
DESIGN BY	M. SOKOL
DRAWN BY	M. SOKOL
CHECKED BY	D. RASMUSSEN/V. GONZALEZ
DATE	09/17/2018
SCALE	AS SHOWN
SHEET	06
<b>PP-1</b>	
OF 12 SHEETS	
DRAWING FILE #	12-935

9/28/2018 10:05 AM V:\CAD\2018-2019\WMCIP\06-07-P1 & P2 - EDGEMONT ST.DWG

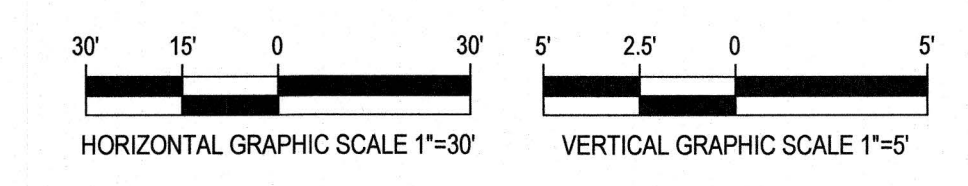




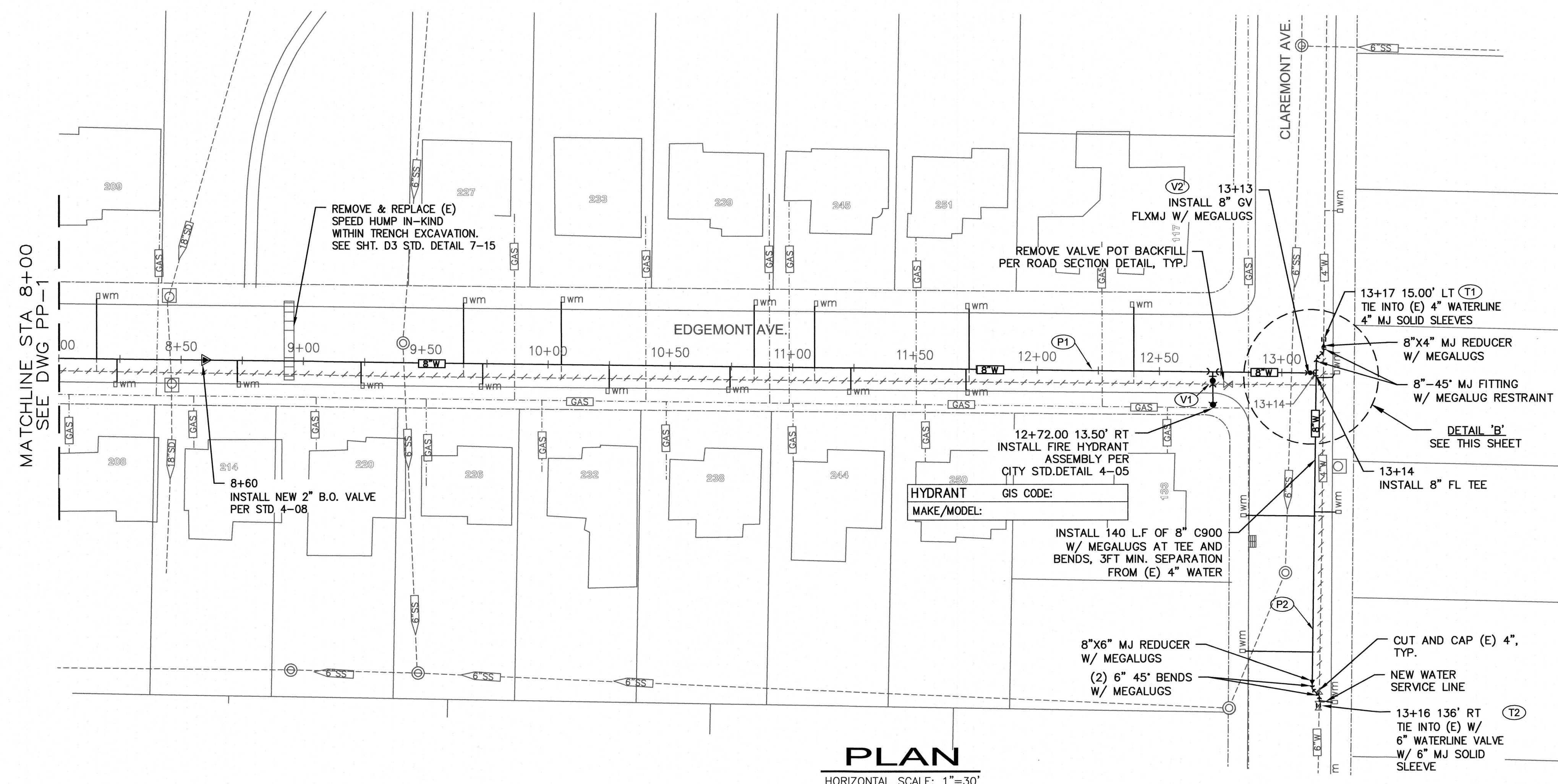
**PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=5'

<b>VALVE (V1) GIS CODE:</b> SIZE: _____ TYPE: _____ TURNS: _____ ENDS: _____ DEPTH OF OPERATING NUT: _____ DIRECTION TO OPEN: _____ MODEL: _____ USE: _____ <small>(LINE, ZONE, CAV, BLOW-OFF, ETC)</small>	<b>VALVE (V2) GIS CODE:</b> SIZE: _____ TYPE: _____ TURNS: _____ ENDS: _____ DEPTH OF OPERATING NUT: _____ DIRECTION TO OPEN: _____ MODEL: _____ USE: _____ <small>(LINE, ZONE, CAV, BLOW-OFF, ETC)</small>	<b>PIPE ASSESSMENT AT TIE IN (T1)</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ INTERIOR LINING: _____ LINING CONDITION: _____ PIPE COVER (DEPTH): _____ OVERALL PIPE CONDITION: _____ PAVEMENT THICKNESS: _____	<b>PIPE ASSESSMENT AT TIE IN (T2)</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ INTERIOR LINING: _____ LINING CONDITION: _____ PIPE COVER (DEPTH): _____ OVERALL PIPE CONDITION: _____ PAVEMENT THICKNESS: _____
<b>PIPE (P1) GIS CODE:</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ ENDS: _____ MAKE/MODEL: _____ PIPE COVER (DEPTH): _____ RESTRAINED JOINTS? YES NO THRUST BLOCKS? YES NO	<b>PIPE (P2) GIS CODE:</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ ENDS: _____ MAKE/MODEL: _____ PIPE COVER (DEPTH): _____ RESTRAINED JOINTS? YES NO THRUST BLOCKS? YES NO		

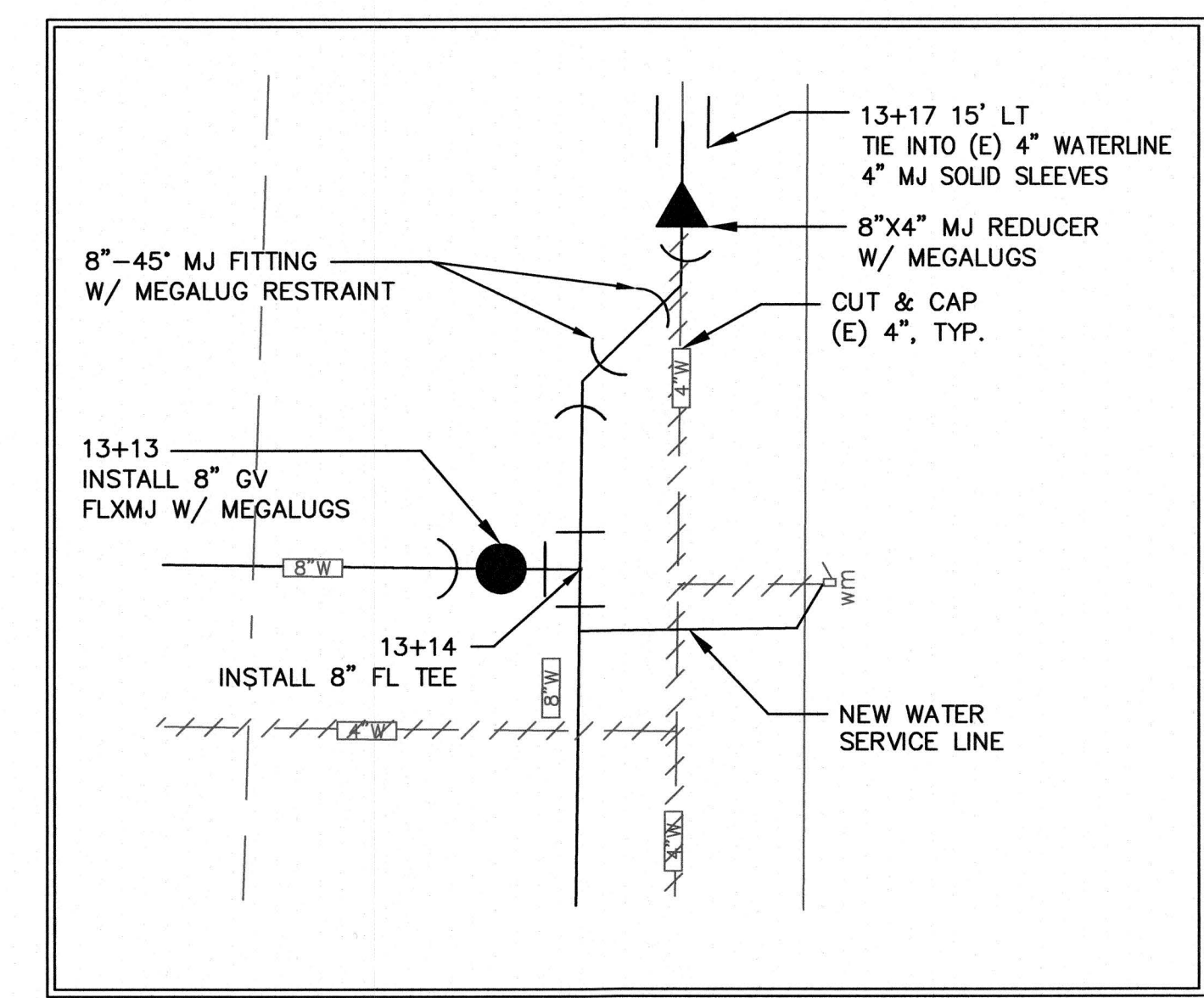
**WATER INSTALLATION NOTE:**  
 CONTRACTOR SHALL POTHOLE AND VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES IN THE VICINITY OF WATER MAIN PRIOR TO CONSTRUCTION. ALL POTENTIAL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND POSSIBLE NEW ALIGNMENTS SHALL BE LOOKED AT PRIOR TO FURTHER CONSTRUCTION.



**\*SPECIAL NOTE:**  
 REFER TO CITY STANDARD SPECIFICATION SECTION 7.3.8 "SIGNAL INTERCONNECT CABLE" (si) IF FIBER OPTIC CABLE (fo) OR SI CABLE IS DAMAGED.



**PLAN**  
 HORIZONTAL SCALE: 1"=30'



**DETAIL 'B'**  
 N.T.S.

**RECORD DRAWING**

THIS RECORD PLAN HAS BEEN REVIEWED

BY \_\_\_\_\_

NAME \_\_\_\_\_ PRINT \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

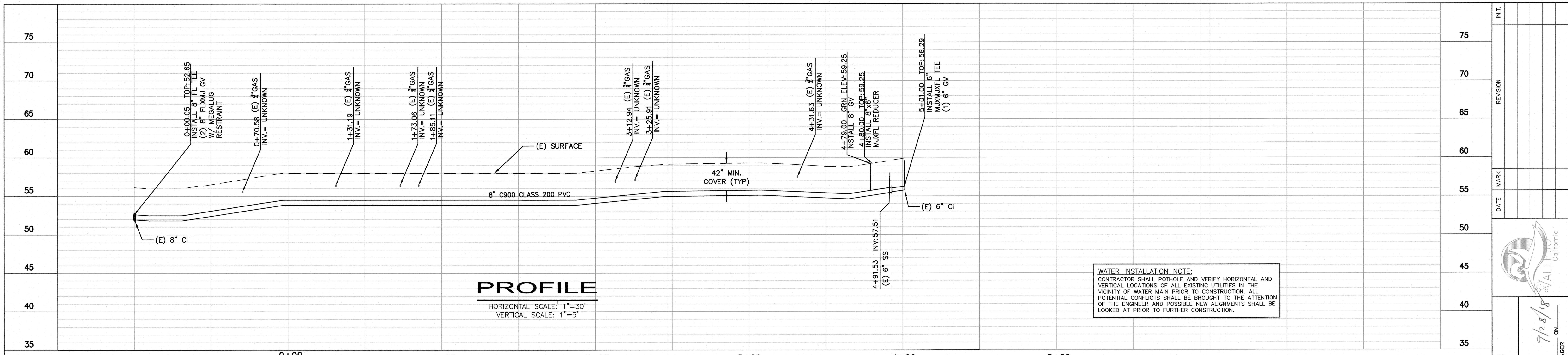
CITY OF VALLEJO  
 WATER DEPARTMENT

WATER MAINS CIP FY18-19 WTR050  
**EDGEMONT AVE**  
 FROM FLEMING AVE TO CLAREMONT AVE

DATE: 09/17/2018  
 SCALE: AS SHOWN  
 SHEET: 07  
**PP-2**  
 OF 12 SHEETS  
 DRAWING FILE # 12-935

APPROVED: RICHARD WILSON, PE - ENGINEERING MANAGER

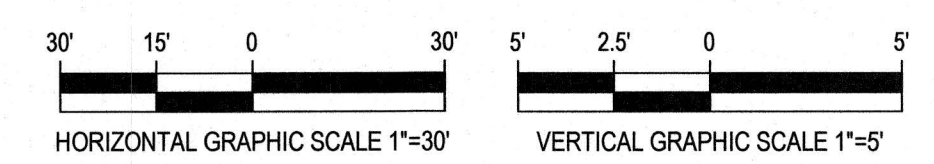




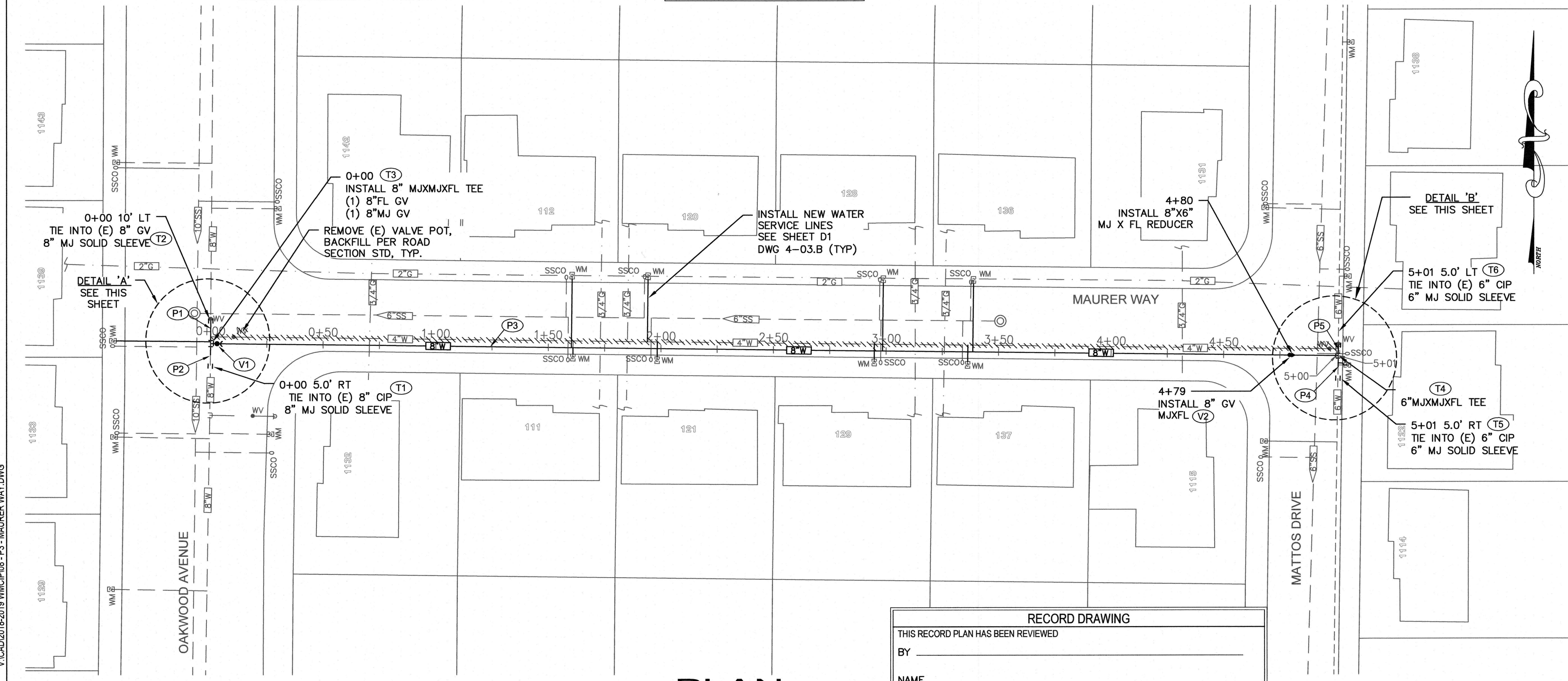
**PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=5'

**WATER INSTALLATION NOTE:**  
 CONTRACTOR SHALL POthOLE AND VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES IN THE VICINITY OF WATER MAIN PRIOR TO CONSTRUCTION. ALL POTENTIAL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND POSSIBLE NEW ALIGNMENTS SHALL BE LOOKED AT PRIOR TO FURTHER CONSTRUCTION.

<b>VALVE (V1) GIS CODE:</b> SIZE: _____ TYPE: _____ TURNS: _____ ENDS: _____ (PLAIN, FLANGED, ETC) DEPTH OF OPERATING NUT: _____ DIRECTION TO OPEN: _____ MODEL: _____ USE: _____ (LINE, ZONE, CAV, BLOW-OFF, ETC)	<b>VALVE (V2) GIS CODE:</b> SIZE: _____ TYPE: _____ TURNS: _____ ENDS: _____ (PLAIN, FLANGED, ETC) DEPTH OF OPERATING NUT: _____ DIRECTION TO OPEN: _____ MODEL: _____ USE: _____ (LINE, ZONE, CAV, BLOW-OFF, ETC)	<b>PIPE ASSESSMENT AT TIE IN (T2)</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ INTERIOR LINING: _____ (TYPE & THICKNESS) LINING CONDITION: _____ PIPE COVER (DEPTH): _____ OVERALL PIPE CONDITION: _____ PAVEMENT THICKNESS: _____	<b>PIPE ASSESSMENT AT TIE IN (T4)</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ INTERIOR LINING: _____ (TYPE & THICKNESS) LINING CONDITION: _____ PIPE COVER (DEPTH): _____ OVERALL PIPE CONDITION: _____ PAVEMENT THICKNESS: _____	<b>PIPE ASSESSMENT AT TIE IN (T6)</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ INTERIOR LINING: _____ (TYPE & THICKNESS) LINING CONDITION: _____ PIPE COVER (DEPTH): _____ OVERALL PIPE CONDITION: _____ PAVEMENT THICKNESS: _____	<b>PIPE (P2) GIS CODE:</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ ENDS: _____ (PLAIN, FLANGED, ETC) MAKE/MODEL: _____ PIPE COVER (DEPTH): _____ RESTRAINED JOINTS? YES ___ NO ___ THRUST BLOCKS? YES ___ NO ___	<b>PIPE (P4) GIS CODE:</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ ENDS: _____ (PLAIN, FLANGED, ETC) MAKE/MODEL: _____ PIPE COVER (DEPTH): _____ RESTRAINED JOINTS? YES ___ NO ___ THRUST BLOCKS? YES ___ NO ___
<b>PIPE ASSESSMENT AT TIE IN (T1)</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ INTERIOR LINING: _____ (TYPE & THICKNESS) LINING CONDITION: _____ PIPE COVER (DEPTH): _____ OVERALL PIPE CONDITION: _____ PAVEMENT THICKNESS: _____	<b>PIPE ASSESSMENT AT TIE IN (T3)</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ INTERIOR LINING: _____ (TYPE & THICKNESS) LINING CONDITION: _____ PIPE COVER (DEPTH): _____ OVERALL PIPE CONDITION: _____ PAVEMENT THICKNESS: _____	<b>PIPE ASSESSMENT AT TIE IN (T5)</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ INTERIOR LINING: _____ (TYPE & THICKNESS) LINING CONDITION: _____ PIPE COVER (DEPTH): _____ OVERALL PIPE CONDITION: _____ PAVEMENT THICKNESS: _____	<b>PIPE (P1) GIS CODE:</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ ENDS: _____ (PLAIN, FLANGED, ETC) MAKE/MODEL: _____ PIPE COVER (DEPTH): _____ RESTRAINED JOINTS? YES ___ NO ___ THRUST BLOCKS? YES ___ NO ___	<b>PIPE (P3) GIS CODE:</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ ENDS: _____ (PLAIN, FLANGED, ETC) MAKE/MODEL: _____ PIPE COVER (DEPTH): _____ RESTRAINED JOINTS? YES ___ NO ___ THRUST BLOCKS? YES ___ NO ___	<b>PIPE (P5) GIS CODE:</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ ENDS: _____ (PLAIN, FLANGED, ETC) MAKE/MODEL: _____ PIPE COVER (DEPTH): _____ RESTRAINED JOINTS? YES ___ NO ___ THRUST BLOCKS? YES ___ NO ___	

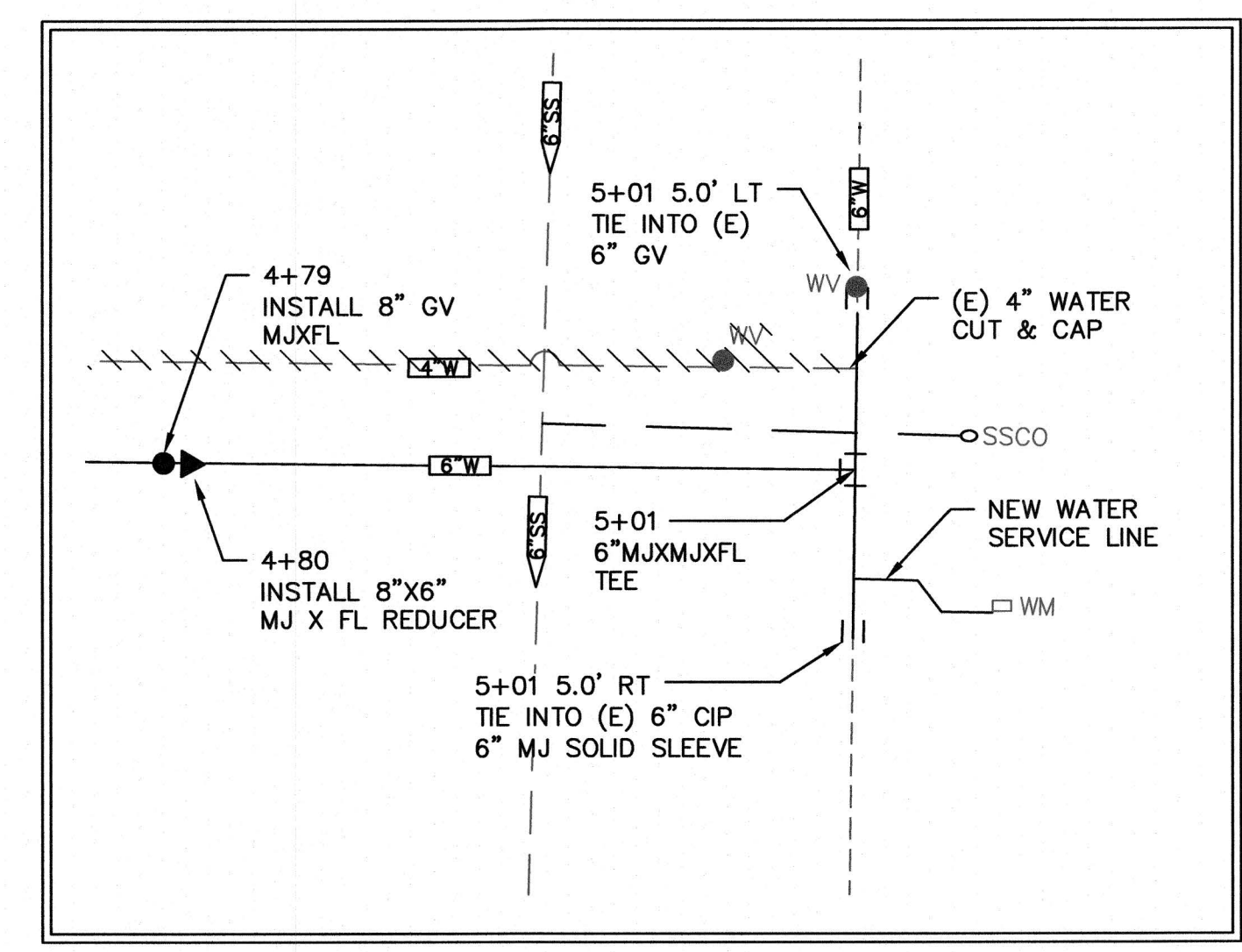
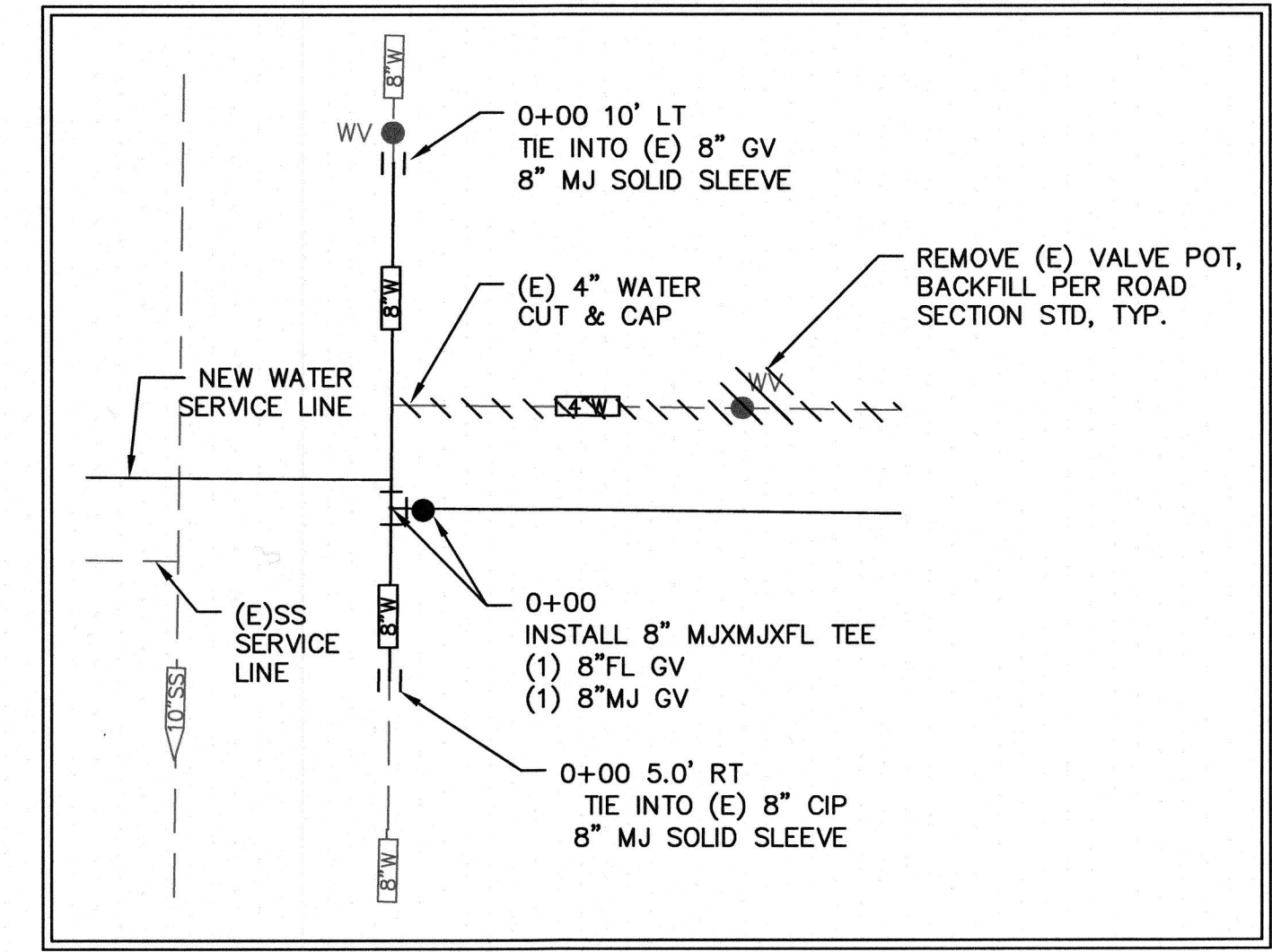


\*SPECIAL NOTE:  
 REFER TO CITY NDRD SPECIFICATION SECTION 7.3.8  
 "SIGNAL INTERCONNECT CABLE" (SI) IF FIBER OPTIC CABLE  
 (FO) OR SI CABLE IS DAMAGED.



**PLAN**  
 HORIZONTAL SCALE: 1"=30'

**RECORD DRAWING**  
 THIS RECORD PLAN HAS BEEN REVIEWED  
 BY: \_\_\_\_\_  
 NAME: \_\_\_\_\_ PRINT  
 TITLE: \_\_\_\_\_  
 DATE: \_\_\_\_\_



INIT.	
REVISION	
DATE	MARK
CITY OF VALLEJO WATER DEPARTMENT APPROVED: RICHARD WILSON, PE - ENGINEERING MANAGER DATE: 9/25/18	
<b>WATER MAINS CIP FY18-19 WT8050</b> <b>Maurer Way</b> from Oakwood Ave. to Mattos Dr.	
CITY PROJECT #	WT8050
DESIGN BY	R. ZAMBRANA
DRAWN BY	R. ZAMBRANA
CHECKED BY	D. RASMUSSEN / V. GONZALEZ
DATE	09/17/2018
SCALE	AS SHOWN
SHEET	08
<b>PP-3</b> OF 12 SHEETS DRAWING FILE # 12-935	

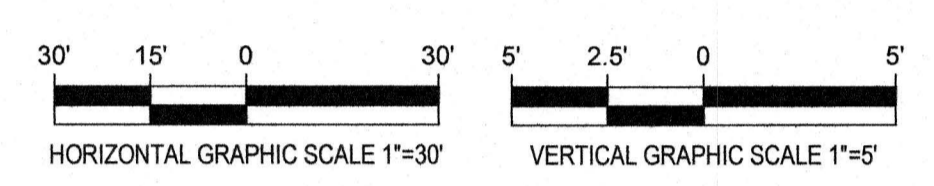




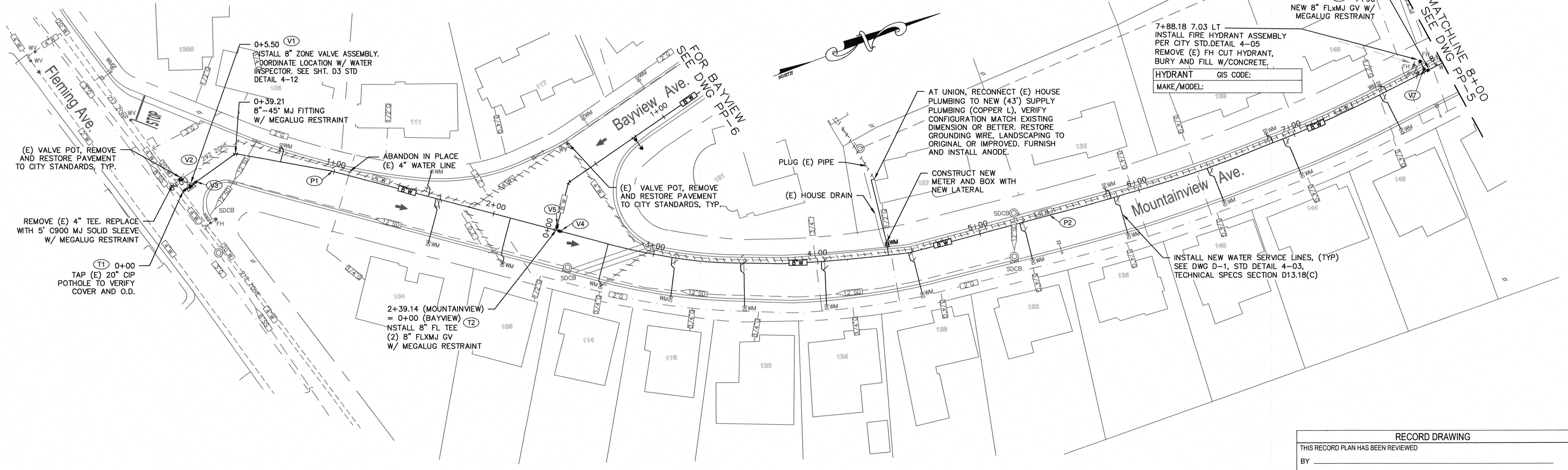
**PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=5'

**WATER INSTALLATION NOTE:**  
 CONTRACTOR SHALL POthOLE AND VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES IN THE VICINITY OF WATER MAIN PRIOR TO CONSTRUCTION. ALL POTENTIAL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND POSSIBLE NEW ALIGNMENTS SHALL BE LOOKED AT PRIOR TO FURTHER CONSTRUCTION.

<b>VALVE (V1) GIS CODE:</b> SIZE: _____ TYPE: _____ TURNS: _____ ENDS: _____ (PLAIN, FLANGED, ETC) DEPTH OF OPERATING NUT: _____ DIRECTION TO OPEN: L MAKE/MODEL: _____ USE: _____ (LINE, ZONE, CAV, BLOW-OFF, ETC)	<b>VALVE (V2) GIS CODE:</b> SIZE: _____ TYPE: _____ TURNS: _____ ENDS: _____ (PLAIN, FLANGED, ETC) DEPTH OF OPERATING NUT: _____ DIRECTION TO OPEN: L MAKE/MODEL: _____ USE: _____ (LINE, ZONE, CAV, BLOW-OFF, ETC)	<b>VALVE (V3) GIS CODE:</b> SIZE: _____ TYPE: _____ TURNS: _____ ENDS: _____ (PLAIN, FLANGED, ETC) DEPTH OF OPERATING NUT: _____ DIRECTION TO OPEN: L MAKE/MODEL: _____ USE: _____ (LINE, ZONE, CAV, BLOW-OFF, ETC)	<b>VALVE (V4) GIS CODE:</b> SIZE: _____ TYPE: _____ TURNS: _____ ENDS: _____ (PLAIN, FLANGED, ETC) DEPTH OF OPERATING NUT: _____ DIRECTION TO OPEN: L MAKE/MODEL: _____ USE: _____ (LINE, ZONE, CAV, BLOW-OFF, ETC)	<b>PIPE (P1) GIS CODE:</b> NOMINAL SIZE: _____" ID: _____" OD: _____" MATERIAL TYPE: _____ ENDS: _____ (PLAIN, FLANGED, ETC) MAKE/MODEL: _____ PIPE COVER (DEPTH): _____ RESTRAINED JOINTS? YES ___ NO ___ THRUST BLOCKS? YES ___ NO ___	<b>PIPE (P2) GIS CODE:</b> NOMINAL SIZE: _____" ID: _____" OD: _____" MATERIAL TYPE: _____ ENDS: _____ (PLAIN, FLANGED, ETC) MAKE/MODEL: _____ PIPE COVER (DEPTH): _____ RESTRAINED JOINTS? YES ___ NO ___ THRUST BLOCKS? YES ___ NO ___
<b>VALVE (V5) GIS CODE:</b> SIZE: _____ TYPE: _____ TURNS: _____ ENDS: _____ (PLAIN, FLANGED, ETC) DEPTH OF OPERATING NUT: _____ DIRECTION TO OPEN: L MAKE/MODEL: _____ USE: _____ (LINE, ZONE, CAV, BLOW-OFF, ETC)	<b>VALVE (V6) GIS CODE:</b> SIZE: _____ TYPE: _____ TURNS: _____ ENDS: _____ (PLAIN, FLANGED, ETC) DEPTH OF OPERATING NUT: _____ DIRECTION TO OPEN: L MAKE/MODEL: _____ USE: _____ (LINE, ZONE, CAV, BLOW-OFF, ETC)	<b>VALVE (V7) GIS CODE:</b> SIZE: _____ TYPE: _____ TURNS: _____ ENDS: _____ (PLAIN, FLANGED, ETC) DEPTH OF OPERATING NUT: _____ DIRECTION TO OPEN: L MAKE/MODEL: _____ USE: _____ (LINE, ZONE, CAV, BLOW-OFF, ETC)	<b>PIPE ASSESSMENT AT TIE IN (T1)</b> NOMINAL SIZE: _____" ID: _____" OD: _____" MATERIAL TYPE: PVC INTERIOR LINING: _____ (TYPE & THICKNESS) LINING CONDITION: _____ PIPE COVER (DEPTH): _____ OVERALL PIPE CONDITION: _____ PAVEMENT THICKNESS: _____	<b>PIPE ASSESSMENT AT TIE IN (T2)</b> NOMINAL SIZE: _____" ID: _____" OD: _____" MATERIAL TYPE: PVC INTERIOR LINING: _____ (TYPE & THICKNESS) LINING CONDITION: _____ PIPE COVER (DEPTH): _____ OVERALL PIPE CONDITION: _____ PAVEMENT THICKNESS: _____	



\*SPECIAL NOTE:  
 REFER TO CITY STANDARD SPECIFICATION SECTION 7.3.8  
 "SIGNAL INTERCONNECT CABLE" (si) IF FIBER OPTIC CABLE  
 (fo) OR SI CABLE IS DAMAGED.



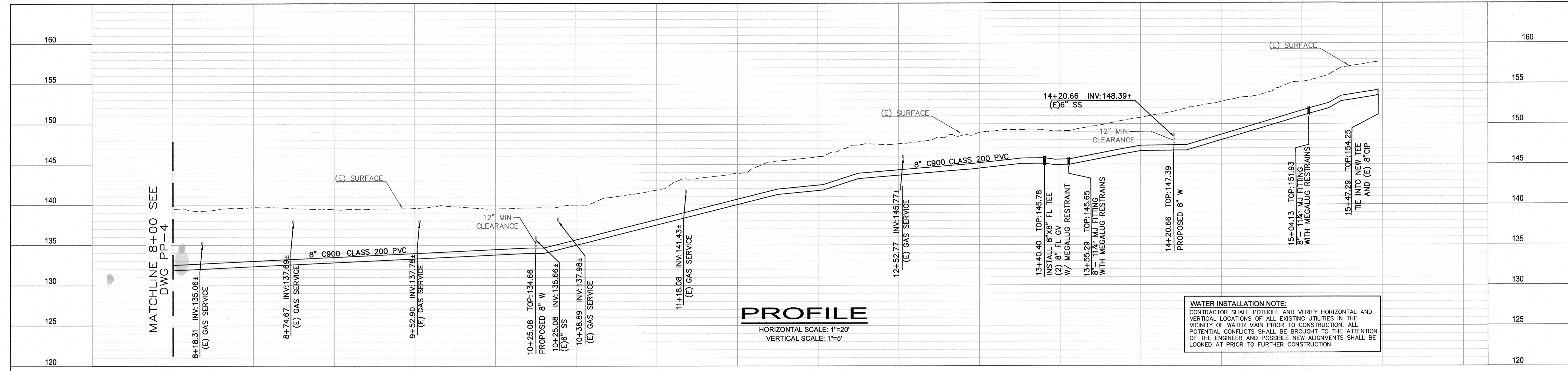
**PLAN**  
 HORIZONTAL SCALE: 1"=30'

**RECORD DRAWING**  
 THIS RECORD PLAN HAS BEEN REVIEWED  
 BY \_\_\_\_\_  
 NAME \_\_\_\_\_ PRINT  
 TITLE \_\_\_\_\_  
 DATE \_\_\_\_\_

INT.	
REVISION	
DATE	MARK
CITY OF VALLEJO WATER DEPARTMENT APPROVED: RICHARD WILSON, PE. - ENGINEERING MANAGER DATE: 9/28/18	
<b>WATER MAINS CIP FY18-19 - WT8050</b> <b>Mountainview Avenue</b> <b>From Fleming Ave. to Greenfield Ave.</b> 0+00 to 8+00	
CITY PROJECT #	WT8050
DESIGN BY	R. ZAMBRANA
DRAWN BY	R. ZAMBRANA
CHECKED BY	D. RASMUSSEN / V. GONZALEZ
DATE	09/17/2018
SCALE	AS SHOWN
SHEET	9
<b>PP-4</b> OF 12 SHEETS DRAWING FILE # <b>12-935</b>	

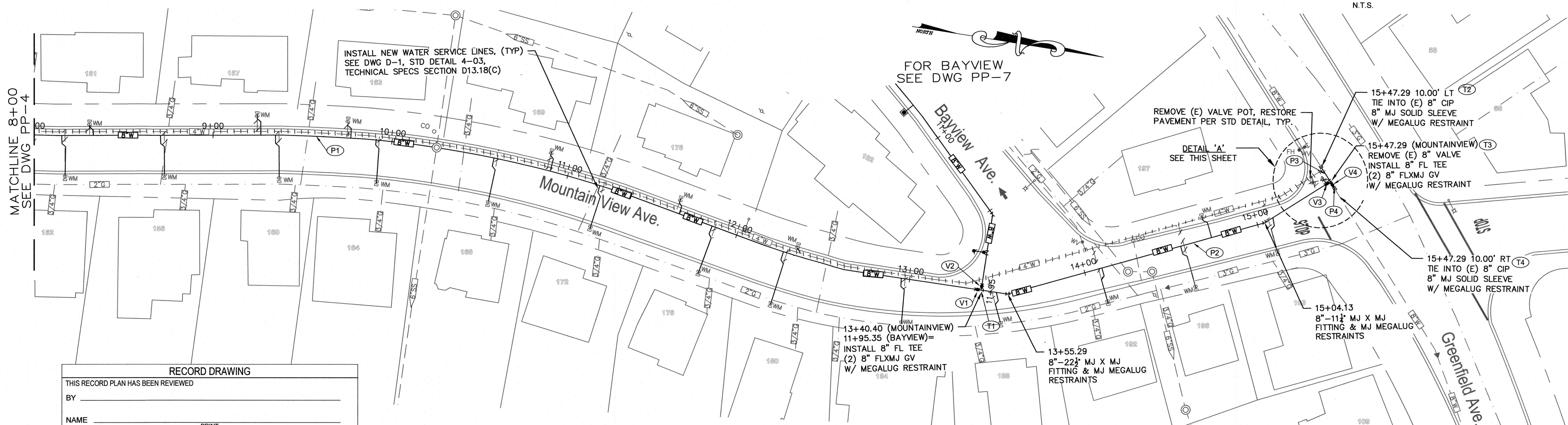
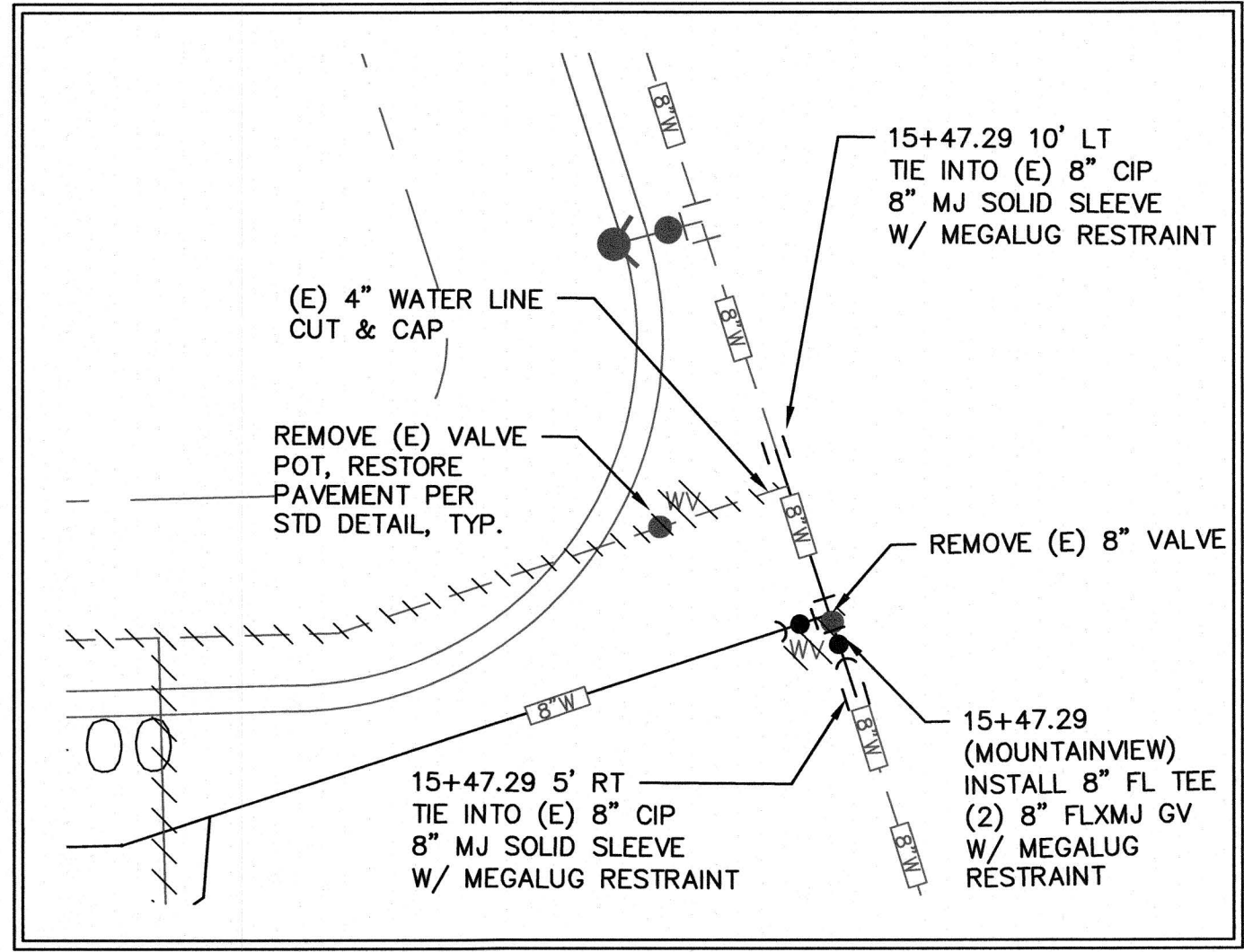
9/27/2018 5:59 PM V:\CAD\2018-2019\MMCFP05-12-P4-P7-BAYVIEW AND MOUNTAINVIEW.DWG



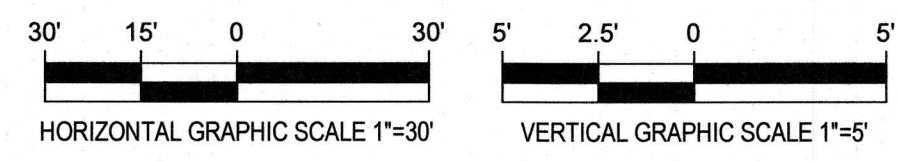


**WATER INSTALLATION NOTE:**  
 CONTRACTOR SHALL POthOLE AND VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES IN THE VICINITY OF WATER MAIN PRIOR TO CONSTRUCTION. ALL POTENTIAL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND POSSIBLE NEW ALIGNMENTS SHALL BE LOOKED AT PRIOR TO FURTHER CONSTRUCTION.

<p><b>VALVE (V1) GIS CODE:</b>          SIZE: _____ TYPE: _____          TURNS: _____ ENDS: _____ x _____          (PLAIN, FLANGED, ETC)          DEPTH OF OPERATING NUT: _____          DIRECTION TO OPEN: L          MAKE/MODEL: _____          USE: _____          (LINE, ZONE, CAV, BLOW-OFF, ETC)</p>	<p><b>VALVE (V2) GIS CODE:</b>          SIZE: _____ TYPE: _____          TURNS: _____ ENDS: _____ x _____          (PLAIN, FLANGED, ETC)          DEPTH OF OPERATING NUT: _____          DIRECTION TO OPEN: L          MAKE/MODEL: _____          USE: _____          (LINE, ZONE, CAV, BLOW-OFF, ETC)</p>	<p><b>PIPE ASSESSMENT AT TIE IN (T1)</b>          NOMINAL SIZE: 8" ID: _____ OD: _____          MATERIAL TYPE: CIP          INTERIOR LINING: _____          (TYPE &amp; THICKNESS)          LINING CONDITION: _____          PIPE COVER (DEPTH): _____          OVERALL PIPE CONDITION: _____          PAVEMENT THICKNESS: 6"</p>	<p><b>PIPE ASSESSMENT AT TIE IN (T2)</b>          NOMINAL SIZE: 8" ID: _____ OD: _____          MATERIAL TYPE: CIP          INTERIOR LINING: _____          (TYPE &amp; THICKNESS)          LINING CONDITION: _____          PIPE COVER (DEPTH): _____          OVERALL PIPE CONDITION: _____          PAVEMENT THICKNESS: 6"</p>	<p><b>PIPE (P1) GIS CODE:</b>          NOMINAL SIZE: _____ ID: _____ OD: _____          MATERIAL TYPE: _____ ENDS: _____ x _____          (PLAIN, FLANGED, ETC)          MAKE/MODEL: _____          PIPE COVER (DEPTH): _____          RESTRAINED JOINTS? YES ___ NO ___          THRUST BLOCKS? YES ___ NO ___</p>	<p><b>PIPE (P2) GIS CODE:</b>          NOMINAL SIZE: _____ ID: _____ OD: _____          MATERIAL TYPE: _____ ENDS: _____ x _____          (PLAIN, FLANGED, ETC)          MAKE/MODEL: _____          PIPE COVER (DEPTH): _____          RESTRAINED JOINTS? YES ___ NO ___          THRUST BLOCKS? YES ___ NO ___</p>
<p><b>VALVE (V3) GIS CODE:</b>          SIZE: _____ TYPE: _____          TURNS: _____ ENDS: _____ x _____          (PLAIN, FLANGED, ETC)          DEPTH OF OPERATING NUT: _____          DIRECTION TO OPEN: L          MAKE/MODEL: _____          USE: _____          (LINE, ZONE, CAV, BLOW-OFF, ETC)</p>	<p><b>VALVE (V4) GIS CODE:</b>          SIZE: _____ TYPE: _____          TURNS: _____ ENDS: _____ x _____          (PLAIN, FLANGED, ETC)          DEPTH OF OPERATING NUT: _____          DIRECTION TO OPEN: L          MAKE/MODEL: _____          USE: _____          (LINE, ZONE, CAV, BLOW-OFF, ETC)</p>	<p><b>PIPE ASSESSMENT AT TIE IN (T3)</b>          NOMINAL SIZE: 8" ID: _____ OD: _____          MATERIAL TYPE: CIP          INTERIOR LINING: _____          (TYPE &amp; THICKNESS)          LINING CONDITION: _____          PIPE COVER (DEPTH): _____          OVERALL PIPE CONDITION: _____          PAVEMENT THICKNESS: 6"</p>	<p><b>PIPE ASSESSMENT AT TIE IN (T4)</b>          NOMINAL SIZE: 8" ID: _____ OD: _____          MATERIAL TYPE: CIP          INTERIOR LINING: _____          (TYPE &amp; THICKNESS)          LINING CONDITION: _____          PIPE COVER (DEPTH): _____          OVERALL PIPE CONDITION: _____          PAVEMENT THICKNESS: 6"</p>	<p><b>PIPE (P3) GIS CODE:</b>          NOMINAL SIZE: _____ ID: _____ OD: _____          MATERIAL TYPE: _____ ENDS: _____ x _____          (PLAIN, FLANGED, ETC)          MAKE/MODEL: _____          PIPE COVER (DEPTH): _____          RESTRAINED JOINTS? YES ___ NO ___          THRUST BLOCKS? YES ___ NO ___</p>	<p><b>PIPE (P4) GIS CODE:</b>          NOMINAL SIZE: _____ ID: _____ OD: _____          MATERIAL TYPE: _____ ENDS: _____ x _____          (PLAIN, FLANGED, ETC)          MAKE/MODEL: _____          PIPE COVER (DEPTH): _____          RESTRAINED JOINTS? YES ___ NO ___          THRUST BLOCKS? YES ___ NO ___</p>



**RECORD DRAWING**  
 THIS RECORD PLAN HAS BEEN REVIEWED  
 BY \_\_\_\_\_  
 NAME \_\_\_\_\_ PRINT \_\_\_\_\_  
 TITLE \_\_\_\_\_  
 DATE \_\_\_\_\_



**PLAN**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=5'

**\*SPECIAL NOTE:**  
 REFER TO CITY STANDARD SPECIFICATION SECTION 7.3.8 "SIGNAL INTERCONNECT CABLE" (si) IF FIBER OPTIC CABLE (fo) OR SI CABLE IS DAMAGED.

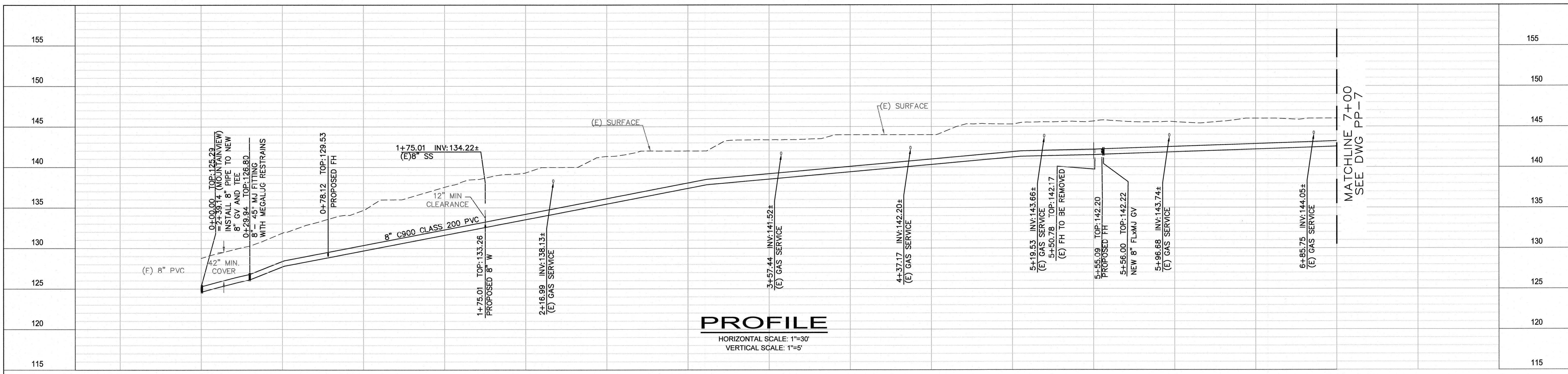
CITY OF VALLEJO  
 WATER DEPARTMENT  
 WATER MAINS CIP FY18-19 WTR050  
 Mountain View Avenue  
 From Fleming Ave. to Greenfield Ave.  
 8+00 TO 15+64.49

APPROVED: RICHARD WILSON, PE - ENGINEERING MANAGER  
 DATE: 9/28/18

INT.	
REVISION	
DATE	MARK

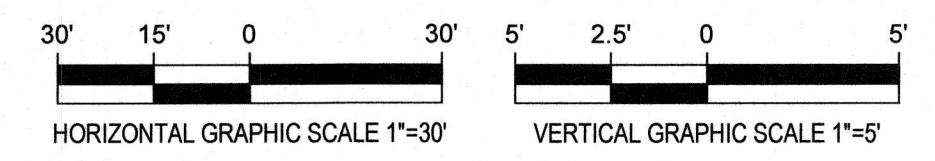
CITY PROJECT # WTR050  
 DESIGN BY R. ZAMBRANA  
 DRAWN BY R. ZAMBRANA  
 CHECKED BY D. RASMUSSEN/V. GONZALEZ  
 DATE 09/17/2018  
 SCALE AS SHOWN  
 SHEET 10  
**PP-5**  
 OF 12 SHEETS  
 DRAWING FILE # 12-935





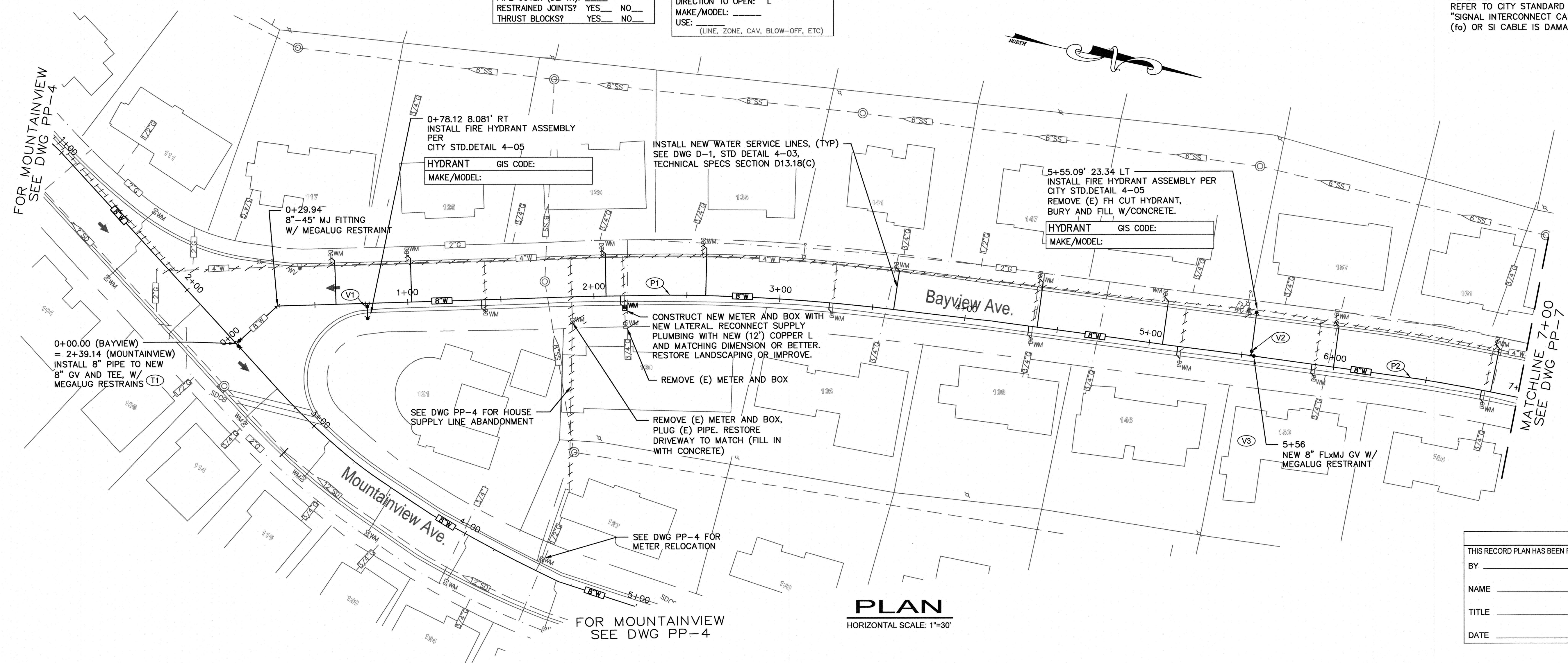
**PROFILE**  
 HORIZONTAL SCALE: 1"=30'  
 VERTICAL SCALE: 1"=5'

<b>PIPE ASSESSMENT AT TIE IN (T1)</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ INTERIOR LINING: _____ (TYPE & THICKNESS) LINING CONDITION: _____ PIPE COVER (DEPTH): _____ OVERALL PIPE CONDITION: _____ PAVEMENT THICKNESS: _____	<b>PIPE (P1) GIS CODE:</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ ENDS: _____ X _____ (PLAIN, FLANGED, ETC) MAKE/MODEL: _____ PIPE COVER (DEPTH): _____ RESTRAINED JOINTS? YES _____ NO _____ THRUST BLOCKS? YES _____ NO _____	<b>VALVE (V1) GIS CODE:</b> SIZE: _____ TYPE: _____ TURNS: _____ ENDS: _____ X _____ (PLAIN, FLANGED, ETC) DEPTH OF OPERATING NUT: _____ DIRECTION TO OPEN: L MAKE/MODEL: _____ USE: _____ (LINE, ZONE, CAV, BLOW-OFF, ETC)	<b>VALVE (V2) GIS CODE:</b> SIZE: _____ TYPE: _____ TURNS: _____ ENDS: _____ X _____ (PLAIN, FLANGED, ETC) DEPTH OF OPERATING NUT: _____ DIRECTION TO OPEN: L MAKE/MODEL: _____ USE: _____ (LINE, ZONE, CAV, BLOW-OFF, ETC)
<b>PIPE (P2) GIS CODE:</b> NOMINAL SIZE: _____ ID: _____ OD: _____ MATERIAL TYPE: _____ ENDS: _____ X _____ (PLAIN, FLANGED, ETC) MAKE/MODEL: _____ PIPE COVER (DEPTH): _____ RESTRAINED JOINTS? YES _____ NO _____ THRUST BLOCKS? YES _____ NO _____	<b>VALVE (V3) GIS CODE:</b> SIZE: _____ TYPE: _____ TURNS: _____ ENDS: _____ X _____ (PLAIN, FLANGED, ETC) DEPTH OF OPERATING NUT: _____ DIRECTION TO OPEN: L MAKE/MODEL: _____ USE: _____ (LINE, ZONE, CAV, BLOW-OFF, ETC)		



**WATER INSTALLATION NOTE:**  
 CONTRACTOR SHALL POTHOLE AND VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES IN THE VICINITY OF WATER MAIN PRIOR TO CONSTRUCTION. ALL POTENTIAL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND POSSIBLE NEW ALIGNMENTS SHALL BE LOOKED AT PRIOR TO FURTHER CONSTRUCTION.

**\*SPECIAL NOTE:**  
 REFER TO CITY STANDARD SPECIFICATION SECTION 7.3.8  
 \*SIGNAL INTERCONNECT CABLE\* (s) IF FIBER OPTIC CABLE (fo) OR SI CABLE IS DAMAGED.



**PLAN**  
 HORIZONTAL SCALE: 1"=30'

**RECORD DRAWING**

THIS RECORD PLAN HAS BEEN REVIEWED

BY \_\_\_\_\_ DATE \_\_\_\_\_

NAME \_\_\_\_\_ SCALE \_\_\_\_\_

TITLE \_\_\_\_\_ PRINT \_\_\_\_\_

DATE \_\_\_\_\_

INIT.	
REVISION	
DATE	
MARK	

CITY OF VALLEJO  
 WATER DEPARTMENT

APPROVED: *[Signature]*  
 RICHARD WILSON, PE. - ENGINEERING MANAGER

9/28/18

WATER MAINS CIP FY18-19 WT8050  
**Bayview Avenue**  
**From Fleming Ave. to Greenfield Ave.**  
 0+00 to 7+00

CITY PROJECT #  
 WTR050

DESIGN BY  
 R. ZAMBRANA

DRAWN BY  
 R. ZAMBRANA

CHECKED BY  
 D. RASMUSSEN V. GONZALEZ

DATE  
 09/17/2018

SCALE  
 AS SHOWN

SHEET  
 11

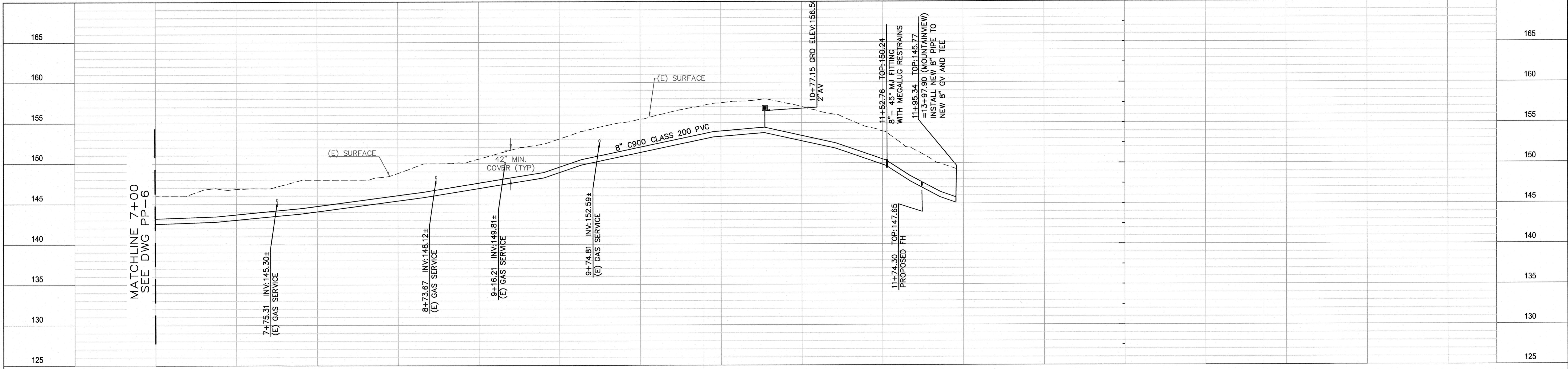
**PP-6**

OF 12 SHEETS

DRAWING FILE #  
 12-935

9/28/2018 2:09 PM V:\CAD\2018-2019 MNCIP\05-12-P4-P7 - BAYVIEW AND MOUNTAINVIEW.DWG

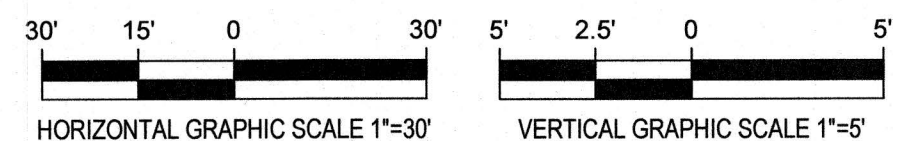




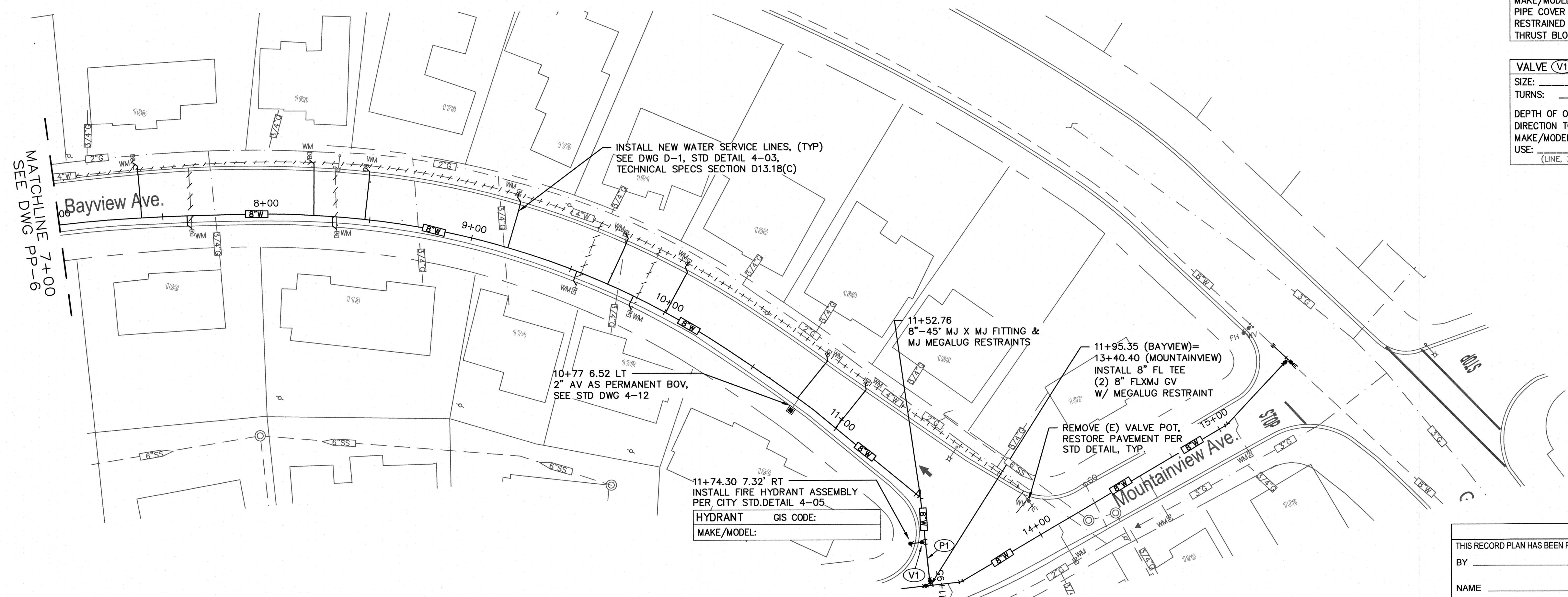
**PROFILE**

HORIZONTAL SCALE: 1"=30'  
VERTICAL SCALE: 1"=5'

**WATER INSTALLATION NOTE**  
CONTRACTOR SHALL POT-HOLE AND VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES IN THE VICINITY OF WATER MAIN PRIOR TO CONSTRUCTION. ALL POTENTIAL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND POSSIBLE NEW ALIGNMENTS SHALL BE LOOKED AT PRIOR TO FURTHER CONSTRUCTION.



**\*SPECIAL NOTE:**  
REFER TO CITY STANDARD SPECIFICATION SECTION 7.3.8 "SIGNAL INTERCONNECT CABLE" (si) IF FIBER OPTIC CABLE (fo) OR SI CABLE IS DAMAGED.



**PLAN**

HORIZONTAL SCALE: 1"=30'

FOR MOUNTAINVIEW  
SEE DWG PP-5

**PIPE (P1) GIS CODE:**  
NOMINAL SIZE: \_\_\_\_\_ ID: \_\_\_\_\_ OD: \_\_\_\_\_  
MATERIAL TYPE: \_\_\_\_\_ ENDS: \_\_\_\_\_ X \_\_\_\_\_  
(PLAIN, FLANGED, ETC)  
MAKE/MODEL: \_\_\_\_\_  
PIPE COVER (DEPTH): \_\_\_\_\_  
RESTRAINED JOINTS? YES NO  
THRUST BLOCKS? YES NO

**VALVE (V1) GIS CODE:**  
SIZE: \_\_\_\_\_ TYPE: \_\_\_\_\_  
TURNS: \_\_\_\_\_ ENDS: \_\_\_\_\_ X \_\_\_\_\_  
(PLAIN, FLANGED, ETC)  
DEPTH OF OPERATING NUT: \_\_\_\_\_  
DIRECTION TO OPEN: L  
MAKE/MODEL: \_\_\_\_\_  
USE: \_\_\_\_\_  
(LINE, ZONE, CAV, BLOW-OFF, ETC)

**RECORD DRAWING**

THIS RECORD PLAN HAS BEEN REVIEWED

BY \_\_\_\_\_

NAME \_\_\_\_\_ PRINT \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

INT.	
REVISION	
DATE	
MARK	

CITY OF VALLEJO  
WATER DEPARTMENT

APPROVED: *[Signature]* ON 7/28/18  
RICHARD WILSON, PE - ENGINEERING MANAGER

WATER MAINS CIP FY18-19 WT8050  
**Bayview Avenue**  
**From Fleming Ave. to Greenfield Ave.**  
7+00 TO 12+59.60

CITY PROJECT #  
WTR050

DESIGN BY  
R. ZAMBRANA

DRAWN BY  
R. ZAMBRANA

CHECKED BY  
D. RAMUSSON V. GONZALEZ

DATE  
09/17/2018

SCALE  
AS SHOWN

SHEET 12

**PP-7**

OF 12 SHEETS  
DRAWING FILE #  
12-935