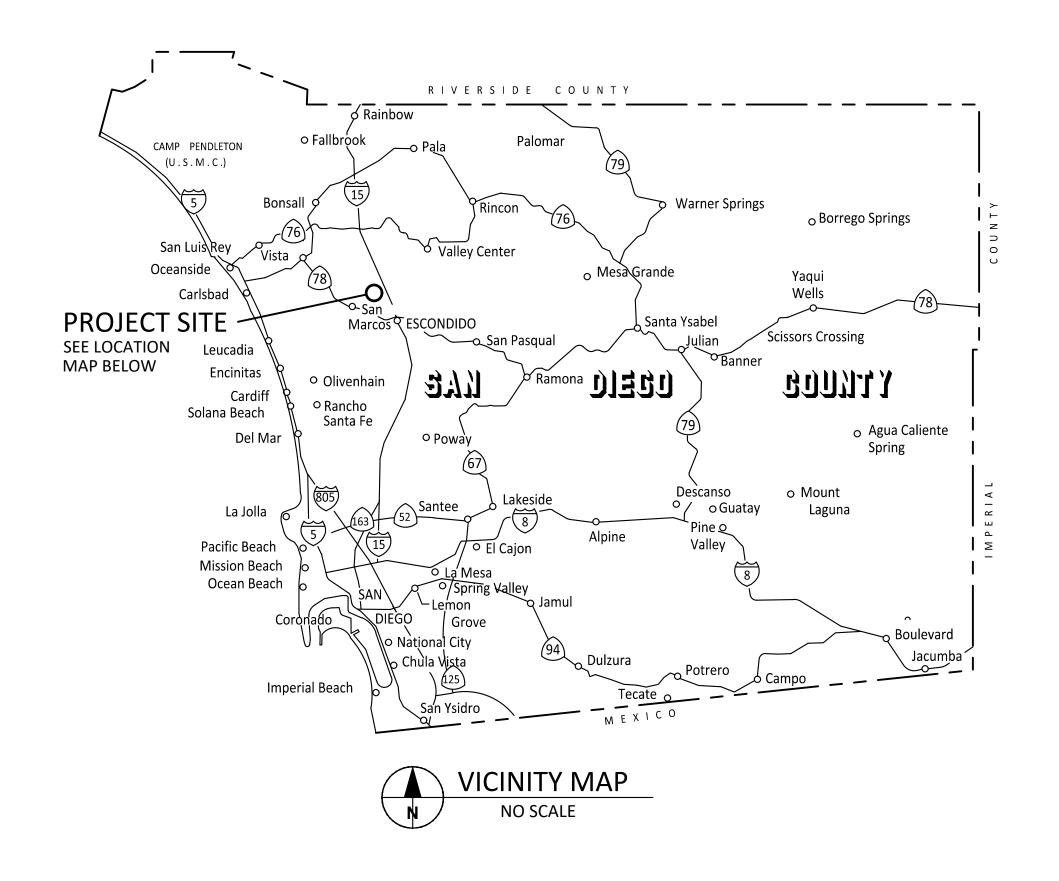
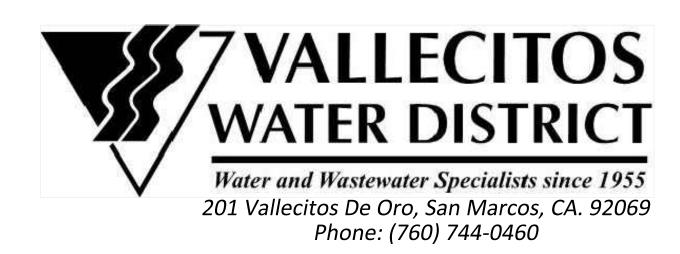
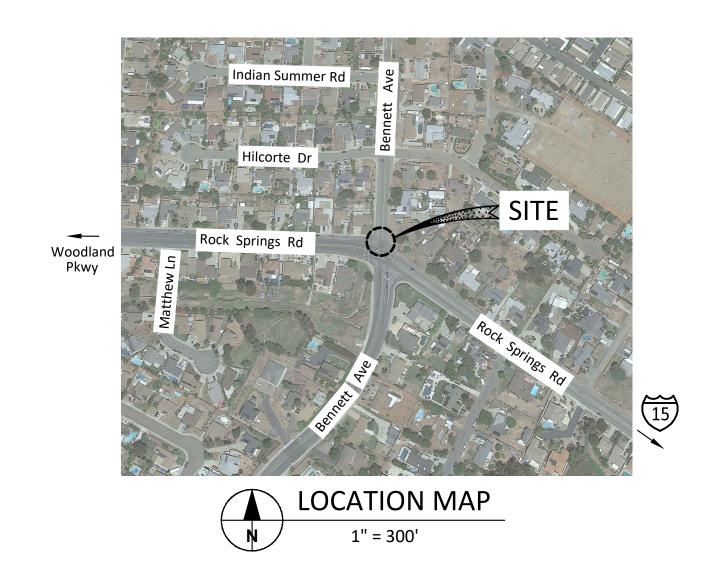
# ROCK SPRINGS VALVE REPLACEMENT PROJECT

# ROCK SPRINGS RD & BENNETT AVE





**JULY 2023** 



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#### DECLARATION OF ENGINEER OF WORK

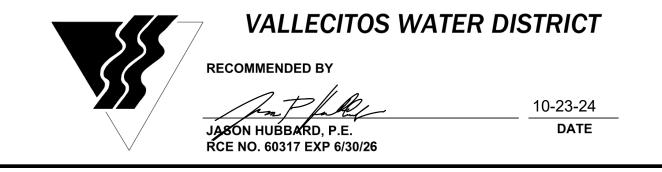
I HEREBY DECLARE THAT THE DESIGN OF THE IMPROVEMENTS AS SHOWN ON THESE PLANS COMPLIES WITH PROFESSIONAL ENGINEERING STANDARDS AND PRACTICES. AS THE ENGINEER IN RESPONSIBLE CHARGE OF THE DESIGN OF THESE IMPROVEMENTS, I ASSUME FULL RESPONSIBLE CHARGE FOR SUCH DESIGN. I UNDERSTAND AND ACKNOWLEDGE THAT THE SIGNATURE OF THESE PLANS BY VALLECITOS WATER DISTRICT, IS A REVIEW OF GENERAL COMPLIANCE WITH DISTRICT STANDARDS. THIS APPROVAL IS NOT A DETERMINATION OF THE TECHNICAL ADEQUACY OR ACCCURACY OF THE DESIGN OF THE IMPROVEMENTS. SUCH APPROVAL DOES NOT, THEREFORE, RELIEVE ME OF MY RESPONSIBILITY FOR THE DESIGN OF THESE IMPROVEMENTS.

FIRM:	HOCH CONSULTING								
ADDRESS:	804 PIER VIEW WAY - SUITE 100								
CITY, ST.:	OCEANSIDE, CALIFORNIA 92054								
	858-431-9767								
BY:	ADAM HOCH, PE	DA	ΛΤΕ: _	7/28/2023					
RCE NO.:	C77635								
REGISTRATIO	REGISTRATION EXPIRATION DATE: 06-30-25								

VWD AS-BUILT					
BY: NAME (ENGINEER OF WORK) R.C.E. NO.	DATE				
VALLECITOS WATER DISTRICT					
PRESSURE ZONE:	920 <sub>HGL</sub>				
PUMP ZONE:					



DESIGNED BY:	APPROVED	DATE	DESCRIPTION	NO.
RR				
AS-BUILTED BY:				
CHECKED BY:				
AR/AH				
''''				





TITLE SHEET, SHEET INDEX, VICINITY MAP & LOCATION MAP

J. 1661 140.		
1	OF	4
WORK ORD	DER:	
258	330	)5
		)5

#### WORK TO BE DONE

THE WORK INCLUDES BUT NOT NECESSARILY LIMITED TO THE FOLLOWING: THE REMOVAL & REPLACEMENT OF AN EXISTING 14" PLUG VALVE. TWO 10" GATE VALVES WITH 4 NEW IN-KIND GATE VALVES & STEEL TEE AND REDUCER. REMOVAL & REPLACEMENT OF VARIOUS 4" BLOW-OFFS AND INSTALLATION OF ONE NEW 18" GATE VALVE & CROSS ON EXISTING WATER PIPELINES, AT THE INTERSECTION OF ROCK SPRINGS RD & BENNETT AVE; DEWATERING OF TRENCH EXCAVATIONS; POTABLE BYPASS (HIGH LINE), NEW PIPING, APPURTENANCES, TESTING, DISINFECTION, RESTORATION OF WATER SERVICE AND ROADWAY/SURFACE RESTORATION AND ALL INCIDENTAL WORK AS SHOWN OR OTHERWISE REQUIRED IN THE CONTRACT DOCUMENTS.

#### RECOMMENDED SEQUENCE OF CONSTRUCTION

- 1. PROVIDE POTABLE WATER BYPASS (HIGHLINE) TO EXISTING METER NOS.: 39589, 39590, 39594, 35952, 39596, 46521, 46519, 39617, 39618, 39621, 39598, 39600, 39611, 39613, 39615, 91449, 39622, AND FIRE HYDRANT NO. 33652.
- 2. TURN OFF VALVE TO FIRE SERVICE NO. 10140 TO WOODLAND PARK MIDDLE SCHOOL. THE AUTOMATIC SPRINKLER FIRE SUPPRESSION SYSTEM SHALL BE OPERATIONAL AT ALL TIMES WITH AN APPROVED BYPASS OR AN APPROVED 24-HOUR FIRE WATCH MUST BE IN PLACE.
- 3. TURN OF EX VALVES 3473, 3520, 6301, 6302, 1965 TO ISOLATE EX 1-14" DIAMETER, AND 2-10" DIAMETER GATE VALVES AND DISTRIBUTION PIPING FOR REMOVAL AND REPLACEMENT.
- 4. REMOVE AND REPLACE EX VALVES, PIPING, AND APPURTENANCES PER PLAN. PROVIDE TESTING AND DISINFECTION PER DISTRICT STANDARDS AND ACHIEVE ACCEPTANCE.
- 5. TURN ON EX VALVES 3473, 3520, 6301, 6302, 1965, AND RETURN POTABLE DISTRIBUTION SERVICE TO METERS AND FIRE HYDRANT, AND FIRE SERVICE NOTED ABOVE.
- 6. REMOVE HIGHLINE.

#### SPECIFICATIONS AND DRAWINGS

IN ORDER OF PRECEDENCE

- CONTRACT DRAWINGS
- 2. CONTRACT SPECIFICATIONS
- 3. VALLECITOS WATER DISTRICT STANDARD DRAWINGS AND SPECIFICATIONS FOR THE CONSTRUCTION OF WATER AND SEWER FACILITIES (LATEST EDITION). REVISIONS THERETO, AS CONTAINED IN THESE PROJECT SPECIFIC DRAWINGS AND SPECIFICATIONS, SHALL TAKE PRECEDENCE OVER THE STANDARD SPECIFICATIONS AND DRAWINGS.
- STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).
- SAN DIEGO COUNTY HYDRAULIC DESIGN MANUAL (LATEST EDITION).
- 6. SAN DIEGO REGIONAL STANDARD DRAWINGS (LATEST EDITION).

#### GENERAL NOTES

NO.

- 1. ALL WATER AND SEWER LINES SHALL BE INSTALLED ACCORDING TO THE CURRENT STANDARD SPECIFICATIONS DRAWINGS AND APPROVED MATERIAL LIST OF THE VALLECITOS WATER DISTRICT FOR THE CONSTRUCTION OF WATER AND SEWER FACILITIES. ANY CHANGES OR REVISIONS THEREFROM SHALL BE APPROVED BY THE CITY/COUNTY ENGINEER AND VALLECITOS WATER DISTRICT ENGINEER PRIOR TO CONSTRUCTION.
- WATER LINES SHALL HAVE A MINIMUM COVER OF 42 INCHES. SEWER LINES SHALL HAVE A MINIMUM COVER OF 5 FEET.
- 3. CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES 48 HOURS PRIOR TO CONSTRUCTION. A VALID UNDERGROUND SERVICE ALERT TICKET SHALL BE ON FILE

VALLECITOS WATER DISTRICT	1-760-744-046
COX COMMUNICATION	1-800-227-2600
S.D.G.& E.	1-800-227-2600
AT&T	1-800-227-2600
UNDERGROUND SERVICE ALERT	

- 4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL SUBSTRUCTURES, WHETHER SHOWN ON THE PLANS OR NOT, AND PROTECT THEM FROM DAMAGE. THE ACTUAL LOCATION AND DEPTH OF ALL EXISTING WATER AND SEWER LINES IS TO BE VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCY IS TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF WORK FOR CORRECTION AND THEN SUBMITTED TO THE DISTRICT FOR APPROVAL.
- NEITHER THE ENGINEER, OWNER NOR THE VALLECITOS WATER DISTRICT SHALL BE RESPONSIBLE FOR THE ENFORCEMENT OF SAFETY STANDARDS.
- 6. A PRECONSTRUCTION CONFERENCE MEETING WITH VALLECITOS WATER DISTRICT PERSONNEL SHALL BE HELD A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION.
- A SIGNED SET OF IMPROVEMENT PLANS DOES NOT IMPLY THAT CONSTRUCTION MAY BEGIN. THE CONTRACTOR MUST CONTACT THE VALLECITOS WATER DISTRICT ENGINEERING DEPARTMENT.
- ANY PROPOSED CHANGES IN THE APPROVED IMPROVEMENT PLANS MUST BE REVIEWED AND APPROVED BY THE DISTRICT PRIOR TO THE INSTALLATION OF SUCH CHANGES AND THE CHANGES SHALL BE SHOWN ON THE IMPROVEMENT PLANS.
- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO MAINTAIN AT ALL TIMES ON THE JOB SITE, AN "AS-BUILT" RECORD OF ALL WATER AND SEWER MAINS AND APPURTENANCES INSTALLED UNDER HIS CONTRACT AND PROVIDE SAID RECORD TO THE ENGINEER AT THE COMPLETION OF THE CONTRACT. THE ENGINEER SHALL PROVIDE TWO (2) RED-LINED SETS OF "AS-BUILTS" TO THE DISTRICT PRIOR TO THE WATER AND SEWER SYSTEM BEING PLACED INTO SERVICE, AND A FINAL "AS-BUILT" MYLAR AS A CONDITION OF ACCEPTANCE OF THE WATER AND SEWER SYSTEM.
- 10. ALL CONTRACTORS WORKING IN THE PUBLIC RIGHTS-OF-WAY SHALL OBTAIN A SEPARATE ENCROACHMENT PERMIT OR EXCAVATION PERMIT FROM THE APPROPRIATE AGENCY. INSPECTION OF ALL WORK IS REQUIRED. FORTY-EIGHT (48) HOURS ADVANCE NOTICE IS REQUIRED FOR INSPECTION. (NO WORK SHALL BE PERFORMED IN THE PUBLIC RIGHT-OF-WAY OR DISTRICT EASEMENTS OR ON DISTRICT FACILITIES ON SATURDAYS, SUNDAYS OR LEGAL HOLIDAYS OBSERVED BY THE DISTRICT AND/OR THE CITY WITHOUT THE EXPRESS PERMISSION OF THE DISTRICT.
- 11. CONTRACTOR SHALL POTHOLE (EXCAVATE AND EXPOSE) ALL UTILITIES ALONG CONSTRUCTION EXCAVATION CORRIDOR AS SHOWN ON PLANS OR IDENTIFIED BY USA MARK-OUT. THE POTHOLE INFORMATION (UTILITY SIZE, TYPE, LOCATION, ELEVATION, GRADE AND ALIGNMENT) SHALL BE SUBMITTED TO VALLECITOS WATER DISTRICT PRIOR TO CONSTRUCTION. POTHOLING SHALL NOT BE SCHEDULED FOR MONDAYS OR FRIDAYS. IN ADDITION, POTENTIAL CONFLICTS WITH EXISTING UTILITIES, AS IDENTIFIED BY CONTRACTOR, SHALL BE SUBMITTED PRIOR TO CONSTRUCTION. CONSEQUENCES OF CONTRACTOR'S FAILURE TO POTHOLE AND PROVIDE INFORMATION TO DISTRICT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY AND LIABILITY.
- 12. A BLASTING PLAN SHALL BE SUBMITTED FOR DISTRICT APPROVAL PRIOR TO THE USE OF EXPLOSIVES NEAR DISTRICT FACILITIES.

DESCRIPTION

APPROVED | DESIGNED BY:

RR

AS-BUILTED BY

CHECKED BY:

AR/AH

DATE

- 13. STREETS AND EASEMENTS SHALL BE CONSTRUCTED TO COMPACTED SUB GRADE PRIOR TO INSTALLATION OF THE PUBLIC WATER OR SEWER SYSTEM UNLESS APPROVED BY DISTRICT ENGINEER. ANY EXISTING WATER AND SEWER FACILITIES MUST REMAIN ACCESSIBLE AND AT GRADE AT ALL TIMES.
- 14. ALL WATER LINES SHALL BE PVC. C900 DR14. OR AS NOTED. ALL FITTINGS ARE TO BE PUSH ON, UNLESS OTHERWISE SHOWN AND APPROVED BY THE DISTRICT ENGINEER. NO DEFLECTION WILL BE ALLOWED FOR PVC PIPE. THE USE OF HIGH DEFLECTION COUPLINGS MAY BE ALLOWED AT THE DISCRETION OF THE DISTRICT ENGINEER. ALL SEWER LINES SHALL BE BELL AND SPIGOT SDR35 PVC GREEN PIPE. OR AS NOTED. LATERALS MAY BE WHITE OR GREEN.
- 15. A 10 GAUGE INSULATED TRACER WIRE (BLUE) WITH WARNING TAPE SHALL BE INSTALLED IN A CONTINUOUS RUN ALONG PVC WATER MAINS TO AND FROM SNAKE PIT CD-14 TRACER BOXES LOCATED IN FIRE HYDRANT PADS. NO SPLICES UNLESS APPROVED BY VALLECITOS WATER DISTRICT (VWD).
- 16. THE CONTRACTOR SHALL TEST HIS LINES AGAINST HIS OWN BLOCKING AND NOT AGAINST DISTRICT VALVES.
- 17. UPON CONNECTION OF THE NEW WATER SYSTEM TO THE EXISTING SYSTEM, ALL VALVES ON THE EXISTING AND NEW SYSTEM SHALL BE OPERATED ONLY BY DISTRICT PERSONNEL. THE DEVELOPER OR CONTRACTOR SHALL NOTIFY DISTRICT INSPECTOR IN WRITING A MINIMUM OF 6 WORKING DAYS PRIOR TO A PLANNED SHUTDOWN. SHUTDOWNS SHALL NOT BE SCHEDULED FOR MONDAYS OR FRIDAYS. ALL SHUTDOWNS REQUIRE STATE CERTIFIED BACTERIA TEST.
- 18. UNLESS OTHERWISE SHOWN, SEWER LATERALS AND WATER SERVICES SHALL BE RUN PERPENDICULAR TO THE MAIN.
- 19. THE MINIMUM SIZE FOR WATER SERVICES SHALL BE ONE-INCH (1"). ALL WATER SERVICES SHALL BE MARKED WITH A "W" ON THE CURB AND SHALL BE SHOWN ON THE "AS-BUILT" DRAWINGS.
- 20. ALL INSTALLATIONS WITH STATIC PRESSURE GREATER THAN 175 PSI FOR ¾" & 1" METERS OR 200 PSI FOR 1 ½" & 2" METERS WILL REQUIRE A PRESSURE REGULATING VALVE TO BE INSTALLED BEFORE THE WATER METER. 1" HIGH PRESSURE WATER SERVICES WILL REQUIRE A #6B METER BOX. AN ADDITIONAL PRESSURE REGULATING VALVE MAY BE INSTALLED AFTER THE METER AS DEEMED NECESSARY BY THE OWNER/DEVELOPER TO PROTECT ON-SITE FIXTURES.
- 21. ALL MATERIALS SHALL BE UTILIZED ONLY WITHIN THE PRESSURE RATING OF THE DEVICE.
- 22. SEWER MAINS SHALL BE CONSTRUCTED WITH A CONSISTENT GRADE BETWEEN MANHOLES. THE USE OF HORIZONTAL OR VERTICAL CURVES SHALL NOT BE ALLOWED.
- 23. ALL SEWER LATERALS SHALL BE CONSTRUCTED TO A MINIMUM FIVE-FOOT (5') DEPTH (TO TOP OF PIPE) AT PROPERTY LINE AND SHALL BE CLEAR OF DRIVEWAYS. ALL LATERALS SHALL BE CLEARLY MARKED WITH AN "S" ON THE CURB AND SHALL BE SHOWN ON THE "AS-BUILT" DRAWINGS. SEWER SERVICE LATERALS ARE TO BE INSTALLED PERPENDICULAR TO THE MAIN WITH NO BENDS.
- 24. ALL ABANDONED SEWER LATERALS SHALL BE CAPPED AT THE MAIN. ALL ABANDONED WATER SERVICES SHALL BE PLUGGED OFF AT THE MAIN, AND THE CONNECTION SEVERED. BAILS AND SERVICE SADDLES OTHER THAN BRASS SHALL BE REPLACED PRIOR TO ABANDONMENT. RELOCATE EXISTING SERVICES AS DIRECTED BY THE DISTRICT ENGINEER. WATER MAIN STUBS WHICH ARE NOT USED SHALL BE ABANDONED AT THE MAIN BY REMOVING VALVE AND INSTALLING BLIND FLANGE AT TEE. SHUTDOWN OF WATER MAINS MAY BE REQUIRED DURING ABANDONMENT. ABANDONING EXISTING WATER OR SEWER MAINS SHALL CONSIST OF REMOVAL OR SLURRY FILL AS APPROVED BY DISTRICT.
- 25. DEVELOPER OR CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ACP PIPE WHICH SHALL BE PERFORMED BY A CONTRACTOR REGISTERED BY CAL/OSHA AND CERTIFIED BY THE STATE CONTRACTORS LICENSING BOARD FOR ASBESTOS REMOVAL.
- 26. WATER SERVICES WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN FULL WITH A COPPER SERVICE PER DISTRICT SPECIFICATIONS AS DIRECTED BY THE DISTRICT. SEWER LATERALS OR WYES DAMAGED OR MODIFIED DURING CONSTRUCTION SHALL BE REPLACED IN FULL, AS DIRECTED BY THE DISTRICT.
- 27. RELOCATION OR EXTENSION OF AN EXISTING WATER METER SHALL MEAN INSTALLATION OF THE METER AT A LOCATION IN CONFORMANCE WITH DISTRICT SPECIFICATIONS AS DIRECTED BY THE DISTRICT AND PERPENDICULAR TO THE MAINLINE CONNECTION. UNLESS OTHERWISE NOTED, SERVICE LATERALS OTHER THAN COPPER SHALL BE REPLACED TO THE MAIN. BAILS AND SERVICE SADDLES OTHER THAN BRASS SHALL ALSO BE REPLACED. SHUTDOWN OF MAIN MAY BE REQUIRED.
- 28. PRIOR TO ACCEPTANCE OF ANY SEWER LINE BY THE DISTRICT, ALL MAINS SHALL BE AIR TESTED, FLUSHED CLEAN USING A VACTOR TRUCK, AND SHALL PASS A 5% MANDREL THROUGH THE PIPE. A VIDEO CAMERA INSPECTION OF THE SEWER MAIN SHALL BE CONDUCTED BY PRIVATE CONTRACTOR.
- 29. THE DISTRICT WILL NOT SUPPLY WATER SERVICE, EXCEPT FOR FIRE PROTECTION, TO ANY PROJECT UNTIL ALL PROVISIONS OF THE DISTRICT STANDARDS AND IMPROVEMENT PLANS HAVE BEEN MET, AND FINAL ACCEPTANCE OF THE PROJECT HAS BEEN GRANTED BY THE DISTRICT BOARD OF DIRECTORS.
- 30. ALL VWD EASEMENTS ARE EXCLUSIVE FOR VWD WATER AND SEWER FACILITIES ONLY. NO OTHER UTILITIES ARE ALLOWED WITHIN VWD EASEMENTS. CROSSING MAY BE ALLOWED PROVIDED THERE IS A MINIMUM OF 12-INCHES VERTICAL SEPARATION. CROSSINGS MUST BE PRE-APPROVED BY VWD AND PROCESSED THROUGH THE ENGINEERING DEPARTMENT WITH THE RECORDATION OF AN ENCROACHMENT AGREEMENT. THE VWD EASEMENT AND ENCROACHMENT AGREEMENT RECORDED DOCUMENT NUMBERS MUST BE NOTED ON PLANS.
- 31. THE INTERIOR OF MANHOLES GREATER THAN 48-INCH IN DIAMETER SHALL BE COATED WITH A POLYURETHANE
- 32. ALL FIRE HYDRANT TOPS SHALL BE PAINTED IN ACCORDANCE WITH NFPA 291, AS DIRECTED BY THE LOCAL FIRE PROTECTION AGENCY.
- CONTRACTOR SHALL FURNISH AND INSTALL PRE-APPROVED MATERIALS FROM THE VWD APPROVED MATERIALS LIST, UNLESS OTHERWISE APPROVED.

#### SAN DIEGO GAS & ELECTRIC (SDG&E) NOTES

- 1. WHEN EXCAVATING WITHIN TEN (10) FEET OF A HIGH PRESSURE GAS MAIN, STANDBY WITH SDG&E SHALL BE COORDINATED THROUGH DIG ALERT BY CALLING 811 TO MONITOR SAFETY PRECAUTIONS. AN ACTIVE USA TICKET WILL NEED TO BE OPENED. THE CONTRACTOR SHALL NOTIFY SDG&E AT LEAST TWO (2) WEEKS PRIOR TO ANY WORK, INCLUDING BUT NOT LIMITED TO POTHOLING AND CONSTRUCTION EXCAVATION ACTIVITIES, TO REQUEST STANDBY.
- 2. THE GAS TRANSMISSION LINES WITHIN THE AREA OF WORK MUST BE POTHOLED AT CONTRACTOR'S EXPENSE PRIOR TO THE START OF ANY WORK TO VERIFY DEPTH AND LOCATION. UPON REQUEST, SDG&E WILL POTHOLE THE MAIN AT THE CONTRACTOR'S EXPENSE OR THE CONTRACTOR MAY POTHOLE THE MAIN WITH AN SDG&E STANDBY REPRESENTATIVE ON SITE.
- THE CONTRACTOR SHALL HAND DIG ANY WORK, INCLUDING BUT NOT LIMITED TO POTHOLING AND CONSTRUCTION EXCAVATION ACTIVITIES, WITHOUT THE USE OF MECHANICAL EQUIPMENT WITHIN FIVE (5) FEET OF ANY PORTION OF THE GAS MAIN PIPELINES. CROSSING GAS TRANSMISSION LINES WITH HEAVY EQUIPMENT REQUIRES PRIOR APPROVAL.
- 4. THE CONTRACTOR SHALL MAINTAIN THE FOLLOWING CLEARANCES BETWEEN ALL GAS AND ELECTRIC FACILITIES: ONE (1) FOOT MINIMUM HORIZONTAL CLEARANCE FROM ANY PROPOSED STRUCTURES. ONE (1) FOOT MINIMUM VERTICAL SEPARATION FROM PROPOSED FOREIGN UTILITIES. THREE (3) FEET MINIMUM OF UNDISTURBED SOIL FROM ANY FOREIGN UTILITY TRENCHING; AND FIVE (5) FEET MINIMUM HORIZONTAL SEPARATION FROM ANY FOREIGN, PARALLELING UTILITIES.

#### TRAFFIC CONTROL NOTES

- 1. THE CONTRACTOR IS RESPONSIBLE FOR PROMPTLY RESTORING THE ROAD BACK TO SATISFACTORY CONDITION WHICH INCLUDES, BUT IS NOT LIMITED TO PAVING, STRIPING, MARKINGS, SIGNING AND LOOP DETECTION.
- 2. THE AGENCY RESERVES THE RIGHT TO OBSERVE THESE TRAFFIC CONTROL PLANS IN OPERATION AND TO MAKE CHANGES AS FIELD CONDITIONS WARRANT.
- 3. TRENCHES SHALL BE BACKFILLED OR STEEL PLATED DURING NON-WORK HOURS. STEEL PLATES SHALL HAVE AN ASPHALTIC RAMP ON ALL EDGES, OR RECESSED AND FLUSH W/ ROAD SURFACE SECURELY SUPPORTED SO THEY WON'T ROCK AND A SIGN POSTED NEAR THE PLATES IDENTIFYING THE CONTRACTORS NAME AND 24 HOUR EMERGENCY TELEPHONE NUMBER. ALL DIRT, DUST, AND DEBRIS SHALL BE REMOVED FROM THE STREET AT THE END OF EACH DAY AND AT THE END OF THE JOB WITH ALL USA MARKOUTS. THE STREET SHALL BE KEPT IN A DRIVEABLE CONDITION AT ALL TIMES.
- 4. ANY WORK THAT CREATES AN UNDUE SAFETY RISK OR THAT CREATES SEVERE CONGESTION MAY BE SHUT DOWN BY THE AGENCY.
- 5. A COPY OF ALL TRAFFIC REQUIREMENTS AND TRAFFIC CONTROL PLANS ISSUED BY THE AGENCY MUST BE KEPT ON THE JOB SITE.
- 6. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE AN OFFICIAL PERMIT. CONTACT THE AGENCY FOR INFORMATION ON OBTAINING A PERMIT.
- 7. ALL TRAVEL LANES WILL TYPICALLY BE A MINIMUM OF 12 FEET WIDE, 14 FEET IF ADJACENT TO CLOSED BIKE LANES, UNLESS OTHERWISE SPECIFICALLY APPROVED BY THE AGENCY.
- 8. FLASHING ARROW BOARDS AS REQUIRED BY THE AGENCY.
- 9. WARNING (W) SERIES SIGNS USED IN WORK ZONES SHALL BE BLACK ON AN ORANGE BACKGROUND.
- 10. CONES AND PYLONS SHALL HAVE WHITE REFLECTORIZED SLEEVES WHEN PLACED ALONG THE CENTERLINE OR ALONG THE OUTSIDE SHOULDER.
- 11. IF PARKING IS ALLOWED IN THE ADVANCE WARNING AREA, ADVANCE WARNING SIGNS SHALL BE MOUNTED ON HIGH LEVEL DEVICES.
- 12. ALL CONFLICTING SIGNS SHALL BE COVERED.
- 13. THE CONTRACTOR SHALL POST TOW-AWAY/NO PARKING SIGNS AT LEAST FORTY EIGHT (48) HOURS IN ADVANCE, WITH THE DAY OF WEEK, DATE, AND WORK HOURS NOTED, AND SHALL BAG PARKING METERS (WHERE APPLICABLE).
- 14. PLACE W20-1 AND G20-2 SIGNS ON ALL SIDE STREETS WITH THE CONSTRUCTION ZONE AND PER TCP-4 AS FIELD CONDITIONS PERMIT.
- 15. FLAGGERS SHALL BE ILLUMINATED AT NIGHT PER THE MOST CURRENT CA MUTCD.
- 16. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM WITH THE MOST CURRENT CA MUTCD REQUIREMENTS REGARDING MINIMUM SIZE, MINUMUM MOUNTING HEIGHTS, AND USAGE. LARGER DEVICE SIZES MAY BE SPECIFIED BY THE AGENCY.
- 17. TRAFFIC CONTROL SIGNS SHALL NOT BE MODIFIED IN THE FIELD WITH DUCT TAPE, ELECTRICAL TAPE, OR ANY OTHER NON-APPROVED METHOD.
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING THE LOCATIONS OF SCHOOLS THAT WILL BE AFFECTED IN THE AREA OF IMPENDING WORK. DUE TO PEAK VOLUMES OF PEDESTRIAN AND VEHICULAR TRAFFIC ASSOCIATED WITH SCHOOLS, THE CONTRACTOR MAY BE REQUIRED TO DELAY THE START OF CONSTRUCTION OPERATIONS UNTIL AFTER SCHOOL IS IN SESSION AND COMPLETE CONSTRUCTION OPERATIONS BEFORE SCHOOL IS OUT OF SESSION.
- 19. EXISTING SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL MAY BE BAGGED, COVERED, AND REMOVED SHALL BE HANDLED WITH CARE SO THAT THEY MAY BE LATER RE-INSTALLED OR RETURNED TO THE AGENCY IN GOOD CONDITION AS DIRECTED BY THE AGENCY.
- 20. CONTRACTOR SHALL NOTIFY ALL AFFECTED EMERGENCY SERVICES AT LEAST ONE (1) WEEK IN ADVANCE.
- 21. FOR SIGNALIZED INTERSECTIONS, THE CONTRACTOR SHALL COORDINATE WITH AGENCY TO DETERMINE **HOW TO OPERATE THE SIGNAL**
- 22. TRAFFIC CONTROL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL COORDINATE WITH THE AGENCY OF JURISDICTION.

## MONUMENTS, SIGNING & STRIPING NOTES

CONTRACTOR SHALL REPLACE ALL MONUMENTS, SIGNING, STRIPING AND LETTERING IN-KIND PER AGENCY WITH JURISDICTION STANDARDS.

#### **BASIS OF BEARINGS**

THE BEARINGS SHOWN HEREON ARE BASED UPON THE STATE PLANE COORDINATE SYSTEM OF 1983 (NAD 83), CALIFORNIA ZONE 6

#### **BENCHMARK**

THE BEARINGS OF ELEVATIONS FOR THIS SURVEY IS GPS POINT 3055 (SM 1047) PER VALLECITOS WATER DISTRICT SURVEY CONTROL RECORD OF SURVEY NO. 15376. FIRST ORDER

CONTROL VC 047, 1990" LOCATED AT THE INTERSECTION OF BENNETT AVENUE AND EL NORTE PARKWAY, WESTERLY END OF

3" BRASS DISC IN CONCRETE MONUMENT BEHIND SIDEWALK MARKED "CITY OF SAN MARCOS VERTICAL

NORTHWEST CURB RETURN, 7.5' NORTHERLY OF CURB FACE, 2.0' BEHIND SIDEWALK, 3' EASTERLY OF STREET LIGHT.

EL=709.058 NAVD 88 [EL =706.771 NGVD 29]

### **LEGEND**

EX OR NEW	SIZE	DESCRIPTION	SYMBOL	QTY	VWE	STD DWG/SPEC
EX		INDEX CONTOUR				
EX		INTERMEDIATE CONTOUR				
EX		RIGHT-OF-WAY				
EX		WATER MAIN	W			
EX		SEWER MAIN	S			
EX		GAS MAIN				
EX		ELECTRICAL	——E——			
EX		WATER SERVICE				
EX		WATER METER	WM			
EX		FIRE HYDRANT	<b>&gt;0</b> 4			
NEW		WATER PIPE		32 LF	±	15064, 15041, 15076
NEW		WATER VALVE	8	4		W-16/15102
NEW	4"	BLOW-OFF ASSY	•	3		W-23
EX		COMB AIR RELEASE ASSY	•			
EX		MANUAL AIR RELEASE ASSY	<b>′</b>			
EX		SEWER MANHOLE	S			
EX		STORM DRAIN CLEANOUT				
EX		GAS VALVE	G			
EX		TELEPHONE PEDESTAL	T			
EX		POWER POLE	$\bigcirc_{\sf pp}$			
EX		STREET LIGHT	<del>\</del>			
EX		STREET LIGHT PULLBOX	PB			
EX		TREE				
EX		SIGN				
EX		SURVEY MONUMENT	$\triangle$			

#### **ABBREVIATIONS**

ACP	ASBESTOS CEMENT PIPE	MJ	MECHANICAL JOINT
AML	APPROVED MATERIALS LIST	MOD	MODIFIED
APPROX	APPROXIMATE	N	NORTHING
ASSY	ASSEMBLY	NG PCC	NATURAL GROUND
BC	BEGINNING OF CURVATURE	PCC	PORTLAND CEMENT CONCRETE
ВО	BLOW-OFF	PE	PLAIN END
CL	CENTERLINE, CLASS	PED	PEDESTRIAN
CLR	CLEAR	PH	POTHOLE
CONC	CONCRETE	PRC	POINT OF REVERSING CURVATURE
CML&C	CEMENT MORTAR LINED & COATED	PVC	POLYVINYL CHLORIDE
	CATHODIC PROTECTION	RCB	REINFORCED CONCRETE BOX
CPLG	COUPLING	RCP	REINFORCED CONCRETE PIPE
DG	DECOMPOSED GRANITE	RCP REST	RESTRAINED
DIP	DUCTILE IRON PIPE	REQ	REQUIRED
	DRIVEWAY	RFCA	RESTRAINED FLANGE COUPLING ADAPTER
DWG	DRAWING	R/W	RIGHT OF WAY
Ε	EASTING	ŔW	RECYCLED WATER
EC	END OF CURVATURE	RWGV	RESILIENT WEDGE GATE VALVE
ECC	ECCENTRIC	RT	RIGHT
ELEV	ELEVATION	SD	STORM DRAIN
E'LY	EASTERLY	SDCO	STORM DRAIN CLEANOUT
	EXISTING	SDMH	STORM DRAIN MANHOLE
	FLANGE	SDSD	SAN DIEGO STANDARD DRAWING
FC	FACE OF CURB		SAN DIEGUITO WATER DISTRICT
	FLANGE COUPLING ADAPTER	STD	STANDARD
FL	FLOWLINE	STL	STEEL
	FORCE MAIN	SWR	SEWER
	FIBER OPTIC	TER	TERRACE
	FINISH SURFACE	TG	TOP OF GRATE
GB	GRADE BREAK	TOT	TOTAL
GV	GATE VALVE	TYP	TYPICAL
HDPE	HIGH DENSITY POLYETHYLENE	UNK	UNKNOWN
HP	HIGH POINT/HIGH PRESSURE	VCP	VITRIFIED CLAY PIPE
INT	INTERSECTION	VWD	VALLECITOS WATER DISTRICT
	IRRIGATION	W/	
	LINEAR FEET	W'LY	
	LANE	WTR	WATER
	LEFT		
MAR	MANUAL AIR RELEASE		POFESSION

MIN MINIMUM



**ROCK SPRINGS VALVE REPLACEMENT PROJECT** 

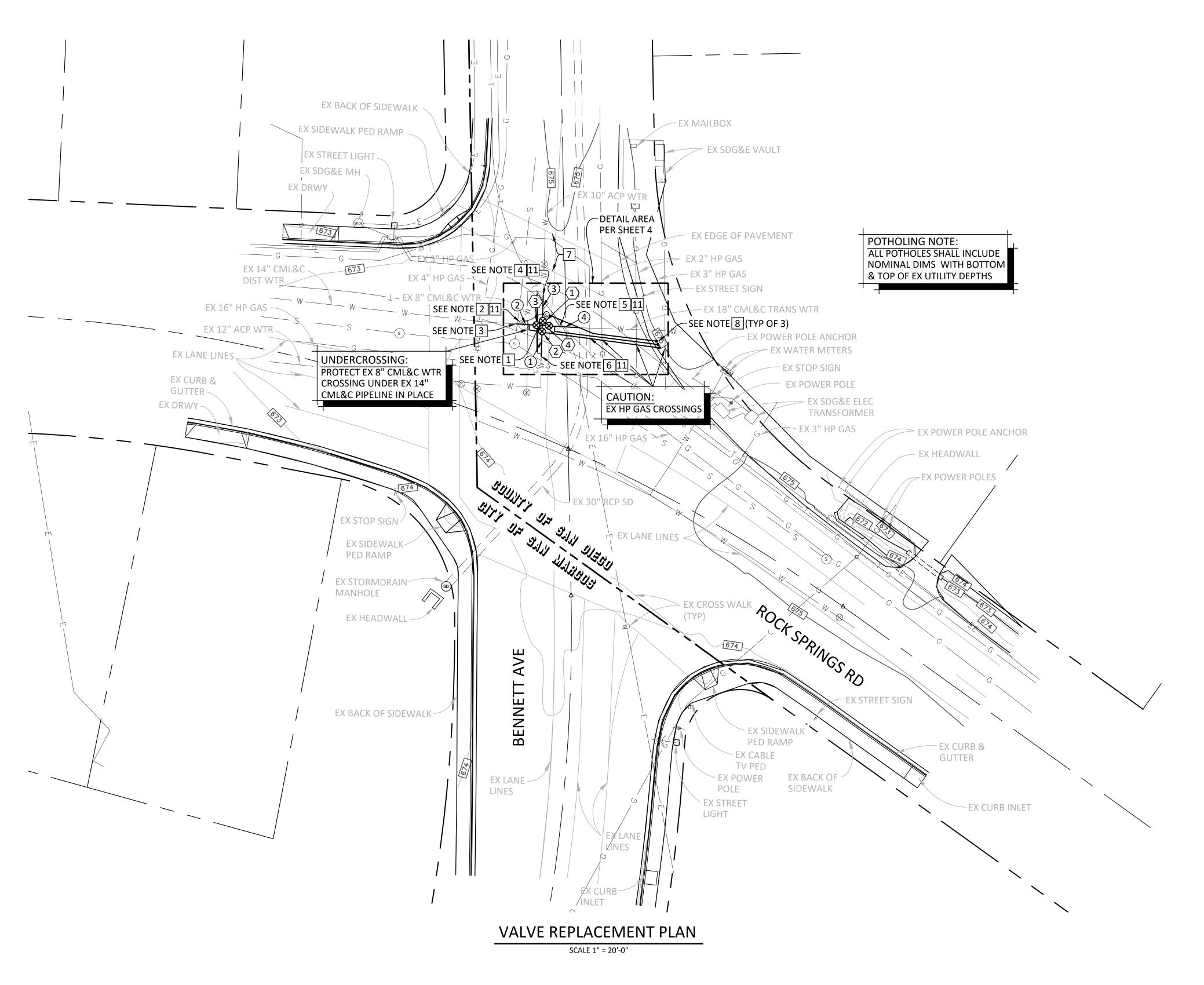
MAXIMUM MANHOLE

MAX

HEET NO: 2 OF

NOTES, ABBREVIATIONS, LEGEND & MISC

ORK ORDER: 258305



#### **CONSTRUCTION NOTES:**

- 1 REMOVE & DISPOSE EX CML&C STL 18" x 10" CROSS & 18" x 14" STL REDUCER. INSTALL NEW 18" x 10" CROSS, 1- 18" GATE VALVE, 2 10" GATE VALVES, 1 18" x 14" REDUCER & 1 14" GATE VALVE, SEE SHEET 4.
- 2 REMOVE & DISPOSE EX 14" PLUG VALVE, WATER MANHOLE W/ FRAME & COVER, 1" CORP STOP ASSY, 4" BLOW-OFF, GATE VALVE & 14" CML&C PIPELINE FROM EX CML&C STL REDUCER TO HORIZ ANGLE POINT BUTT-STRAP CONNECTION. SEE SHEET 4.
- 3 CONNECT 14" CML&C STL WTR FROM NEW 18" x 14" REDUCER TO EX 14" CML&C PIPELINE AFTER EX BUTT-STRAP IS REMOVED. INSTALL 4" BO ASSY PER VWD STD DWG W-23 AND STD SPEC 15076, SEE SHEET 4.
- REMOVE & DISPOSE 8 LF OF EX 10" CML&C WTR. CONNECT 10" PVC DR14 TO EX 10" x 8" TEE. INSTALL 4" BO ASSY PER VWD STD DWG W-23 AND STD SPEC 15064. SEE SHEET 4.
- FREMOVE & DISPOSE 10 LF± OF EX 18" CML&C STL WTR & BLOW-OFF ASSY.

  INSTALL NEW 18" CML&C STL WTR CONNECTION TO EX 18" CML&C PIPELINE & 4"

  BLOW-OFF ASSY PER VWD STD DWG W-23 AND STD SPEC 15076.
- REMOVE & DISPOSE 8 LF OF EX 10" CML&C WTR. CONNECT 10" PVC DR 14 TO EX 10" CML&C PIPELINE. SEE SHEET 4.
- 7 CONTRACTOR SHALL REPLACE IN-KIND ALL EX SIGNING, STRIPING & LETTERING AND MONUMENTS DAMAGED BY CONSTRUCTION ACTIVITIES PER AGENCY WITH JURISDICTION STANDARDS.
- 8 PLACEMENT OF BLOW-OFF RISER AND ELBOW OUTLETS SHALL BE DETERMINED BY A DISTRICT REPRESENTATIVE IN THE FIELD.
- 9 TRENCH COMPACTION & BACKFILL PER VWD STD DWG W-17.
- TRENCH RESURFACING PER SDRSD G-24A & G-24B. SEE SHEET 4.
- 11 SEE IMPROVEMENT PLAN DETAIL SHEET 4 FOR CATHODIC PROTECTION REQUIREMENTS.

	NO.	EXIS	TING	PROPOSED			CONANAENITO		
		SIZE	TYPE	SIZE	TYPE	CLASS	COMMENTS		
	1	10"	GATE	10"	GATE	150	SPEC 15102/STD DWG W-16		
	$\langle 2 \rangle$	10"	GATE	10"	GATE	150	SPEC 15102/STD DWG W-16		
	(3)	14"	PLUG	14"	GATE	150	SPEC 15102/STD DWG W-16		
	$\langle 4 \rangle$	-	-	18"	GATE	150	SPEC 15102/STD DWG W-16		

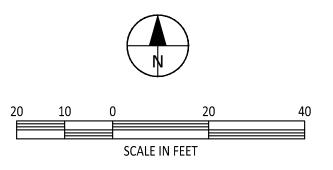
\*MANUFACTURING DATE MUST BE WITHIN 1 YEAR OF INSTALL

	WATERLINE ALIGNMENT TABLE								
NO.	BEARING/DELTA	RADIUS	LENGTH	REMARKS					
1	N 04°17'26" E	-	8.00'*	10" PVC (DR14) PER SPEC 15064					
2	N 85°42'34" W	-	6.00'*	14" CML&C STL** PER SPEC 15076					
3	N 04°17'26" E	-	8.00'*	10" PVC (DR14) PER SPEC 15064					
4	N 85°42'34" E	-	4.00'	18" CML&C STL** PER SPEC 15076					

\*PIPE LENGTHS DETERMINED PER VWD AS-BUILT DWG 1009-03

\*\*STANDARD WEIGHT STEEL PIPE - 0.2500" MIN.THICKNESS





NO.	DESCRIPTION	DATE	APPROVED	DESIGNED BY:
				RR
				AS-BUILTED BY:
				CHECKED BY:
				AR/AH
				''''''



SHEET NO: **3** OF **4** 

WATER MAIN VALVE REPLACEMENT PLAN WORK ORDER:

258305

