

EXISTING FACILITY KEYNOTES

- (1) EXISTING TREE TO REMAIN.
- (2) EXISTING POWER/TELEPHONE POLE TO REMAIN.
- (3) EXISTING A.C. PAVEMENT TO REMAIN.
- (4) EXISTING SIGN TO REMAIN.
- (5) EXISTING DRIVEWAY TO REMAIN.
- (6) EXISTING FENCE TO REMAIN.
- 7 EXISTING FIRE HYDRANT TO ABANDONED WHEN NEW LINE IS IN SERVICE. (PROTECT IN PLACE UNTIL NEW FIRE HYDRANT IS IN OPERATION). DISTRICT TO REMOVE.
- (8) EXISTING WATER METER TO REMAIN.
- (9) EXISTING GUY WIRE TO REMAIN.
- (10) EXISTING 6-INCH WATER VALVE TO REMAIN.
- 11) EXISTING WATER LINE TO REMAIN.
- (12) EXISTING WATER LINE TO BE CAPPED AND ABANDONED IN PLACE BY CONTRACTOR AFTER NEW PIPELINE IS IN SERVICE.
- (13) CAUTION EXISTING AT&T UNDERGROUND PIPELINE TO REMAIN.
- (14) EXISTING UTILITY BOX TO REMAIN.
- (15) CAUTION EXISTING OVERHEAD ELECTRICAL LINES.
- (16) EXISTING BUILDING TO REMAIN.
- (17) EXISTING EDGE OF PAVEMENT TO REMAIN.
- (18) EXISTING 2-INCH WATER VALVE TO REMAIN.

#### DEMOLITION KEYNOTES:

- SAWCUT OR GRIND OUT THE EXISTING A.C. PAVEMENT FOR THE FULL DEPTH OF THE A.C. PAVEMENT. REMOVE AND DISPOSE OF THE EXISTING A.C. PAVEMENT AND UNDERLYING MATERIAL TO SUBBASE DESIGN GRADE.
- 2 SAWCUT THE EXISTING ASPHALT DRIVEWAY FOR THE FULL DEPTH OF THE ASPHALT. REMOVE AND DISPOSE OF THE EXISTING ASPHALT AND UNDERLYING MATERIAL TO SUBBASE DESIGN GRADE.

#### NOTE:

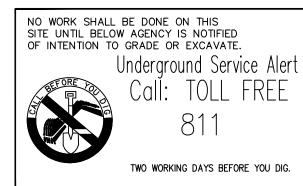
- 1. ALL EXISTING DRY AND WET UTILITIES ILLUSTRATED ARE APPROXIMATE. ALL UTILITIES CROSSING THE PROPOSED WATER LINE SHALL BE REQUIRED TO BE POT-HOLED. SEE NOTE 2.
- 2. IT WILL BE REQUIRED TO POT-HOLE THE EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF CONSTRUCTION WITHIN FIVE (5) DAYS FROM THE ISSUANCE OF THE NOTICE TO PROCEED. IT WILL BE REQUIRED TO COORDINATE THE POT-HOLING ACTIVITIES WITH THE UTILITY COMPANIES AND ENGINEER. IT WILL BE VERIFIED THAT THE EXISTING UTILITIES ARE LOCATED BELOW OR ABOVE THE PROPOSED NEW 6-INCH WATER PIPELINE. RELOCATION OF THE UTILITIES WILL BE COORDINATED WITH THE UTILITY COMPANY. THERE ARE EXISTING UNDERGROUND TELEPHONE CABLE, WATER, GAS, ELECTRICAL, COMMUNICATION, AND IRRIGATION UTILITIES. IT WILL BE REQUIRED TO POTHOLE AND EXPOSE THE UTILITIES PRIOR TO THE EXCAVATION OF THE NEW 6-INCH WATER PIPELINE. THE CONSTRUCTION MANAGER/INSPECTOR WILL OBSERVE THE UTILITIES DURING THE POTHOLE EXCAVATION WORK. THE CONSTRUCTION MANAGER/INSPECTOR SHALL OBTAIN THE ELEVATION OF THE EXPOSED UTILITY AND VERIFY THAT THE UTILITY DOES NOT CONFLICT WITH THE WATER PIPELINE GRADE AS ILLUSTRATED ON THE PROFILE DRAWING.
- 3. THE CONSTRUCTION MANAGER/INSPECTOR SHALL AS-BUILT ALL UTILITIES ENCOUNTERED DURING THE CONSTRUCTION ACTIVITIES. THE AS-BUILT DRAWING SHALL INCLUDE THE HORIZONTAL STATION, TOP OF UTILITY ELEVATION, UTILITY MATERIAL COMPOSITION, UTILITY DIMENSIONS OR DIAMETER AND THE TYPE OF UTILITY.
- 4. THERE IS AN EXISTING EARTHEN BERM WHERE THE NEW PIPELINE WILL BE INSTALLED AT MULTIPLE LOCATIONS. CONTRACTOR TO RECONSTRUCT EARTHEN BERM AFTER THE INSTALLATION OF THE WATER MAIN PIPELINE.

## CONSTRUCTION KEYNOTES:

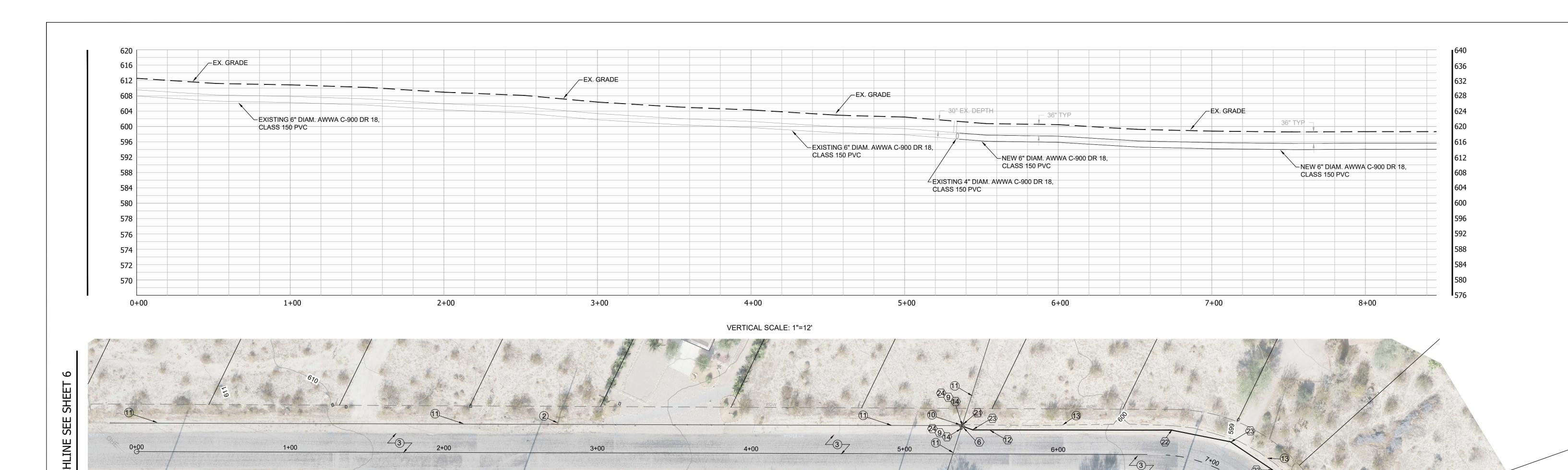
- INSTALL NEW 8-INCH DIAMETER AWWA C-900, DR 18 PRESSURE CLASS 150 PVC WATER PIPELINE IN NATIVE AREAS PER TRENCH DETAIL "WP-02" ON SHEET 8 AND WARNING/IDENTIFICATION TAPE AND TRACER WIRE DETAIL "WP-01" ON SHEET 8.
- (2) INSTALL NEW 8-INCH DIAMETER AWWA C-900 DR 18 PRESSURE CLASS 150 PVC WATER PIPELINE IN PAVED AREAS PER TRENCH DETAIL "G-24A AND G-24B" ON SHEET 8 AND WARNING/IDENTIFICATION TAPE AND TRACER WIRE DETAIL "WP-01" ON SHEET 8.
- (3) INSTALL NEW 8-INCH X 8-INCH X 8-INCH X 8-INCH DIAMETER FLANGED EPOXY COATED DUCTILE IRON CROSS WITH P.C.C. THRUST BLOCK. SEE CONCRETE THRUST AND ANCHOR BLOCK INSTALLATION DETAIL "WT-01" ON SHEET 9.
- (4) INSTALL NEW 8-INCH X 8-INCH X 8-INCH DIAMETER FLANGED EPOXY COATED DUCTILE IRON TEE WITH P.C.C. THRUST BLOCK. SEE CONCRETE THRUST AND ANCHOR BLOCK INSTALLATION DETAIL "WT-01" ON SHEET 9.
- (5) INSTALL NEW 6-INCH FIRE HYDRANT ASSEMBLY PER DETAIL "WF-01" ON SHEET 8.
- (6) INSTALL NEW 6-INCH DIAMETER FLANGED X MJ DUCTILE IRON RESILIENT WEDGE GATE VALVE WITH RESTRAINED JOINT FITTINGS AND VALVE COVER AND RISER. SEE DETAIL "WV-02" ON SHEET 9.
- (7) INSTALL NEW 8-INCH DIAMETER FLANGED X MJ DUCTILE IRON RESILIENT WEDGE GATE VALVE WITH RESTRAINED JOINT FITTINGS AND VALVE COVER AND RISER. SEE DETAIL "WV-02" ON SHEET 9
- $\ensuremath{\langle 8 \rangle}$  INSTALL 2-INCH BLOW-OFF ASSEMBLY, 6-INCH BLIND FLANGE, THRUST BLOCK. SEE DETAIL ON SHEET 9.
- (9) INSTALL NEW 4-INCH DIAMETER EPOXY COATED DUCTILE IRON TRANSITION COUPLING ADAPTER WITH STAINLESS STEEL HARDWARE.
- INSTALL NEW 4-INCHES OF A.C. PAVEMENT OVER 9-INCHES OF CLASS 2 BASE MATERIAL. COMPACT THE CLASS 2 BASE MATERIAL TO 95 PERCENT OF MAXIMUM DENSITY PER

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- INSTALL 1-INCH WATER LATERAL INCLUDING CONNECTION TO 6-INCH WATER MAIN, 1-INCH COPPER PIPE TO PROPERTY LINE AND 1-INCH BRONZE ANGLE METER STOP WITH LOCKWING. USE DIRECTION DRILL TO INSTALL PIPE UNDER PAVED AREAS. (WATER METER, METER BOX, AND SHUT OFF VALVE TO BE PROVIDED AND INSTALLED BY THE DISTRICT). LOCATION TO BE DETERMINED BY THE DISTRICT.
- INSTALL NEW 6-INCH DIAMETER AWWA C-900, DR 18 PRESSURE CLASS 150 PVC WATER PIPELINE IN NATIVE AREAS PER TRENCH DETAIL "WP-02" ON SHEET 13 AND WARNING/IDENTIFICATION TAPE AND TRACER WIRE DETAIL "WP-01" ON SHEET 8.
- (13) INSTALL FLANGE x FLANGE 8" x 6" DUCTILE IRON REDUCER FITTING.
- (14) INSTALL FLANGE x MJ 6" x 4" DUCTILE IRON REDUCER FITTING
- 15 INSTALL 6-INCH DUCTILE IRON BLIND FLANGE AND PCC THRUST BLOCK.
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- (17) CONNECT NEW 6-INCH PVC PIPE TO EXISTING 2-INCH SERVICE PIPE WITH A 2-INCH STAINLESS STEEL SADDLE, USE 2-INCH SCH. 40 PVC PIPE AND FITTINGS.
- INSTALL NEW 6-INCH DIAMETER AWWA C-900 DR 18 PRESSURE CLASS 150 PVC WATER PIPELINE IN PAVED AREAS PER TRENCH DETAIL "G-24A AND G-24B" ON SHEET 8 AND WARNING/IDENTIFICATION TAPE AND TRACER WIRE DETAIL "WP-01" ON SHEET 8.
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- INSTALL FLANGE X MJ 8" X 6" DUCTILE IRON REDUCER FITTING.



NO. REVISIONS: APPROVED	APPROVED FOR CONSTR	JCTION BY:	PREPARED UNDER THE DIRECT SUPERVISION OF:	PROJECT TITLE:	SCALE: 1" = 30'	SHEET
		DAVID B. DALE	<b>建</b> 69,121	BORREGO WATER DISTRICT (CAPITAL IMPROVEMENTS PROJECTS)   BENDING ELBOW, WEATHER VANE AND ROCKING CHAIR DRIVE WATER IMPROVEMENTS PROJECT		6
LINALITHODIZED CHANCES & USES. The engineer property these plane will not be		R.C.E. NO.   No. 63588   Exp. 9-30-20	DAVID B. DALE, PE R.C.E. NO.	SHEET CONTENT:		OF 10 SHEET
UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be for, or liable for, unauthorized changes to or uses of these plans. All changes must be in writing and must be approved by the preparer of these plans.	e plans DATE	REG. EXP.	DATE 06/30/20 REG. EXP.	WATER IMPROVEMENT PLANS WEATHER VANE DR. STA 26+00 TO STA 33+06		JOB NO.



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APPROVED DATE

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# CONSTRUCTION KEYNOTES:

DETAIL ON SHEET 10.

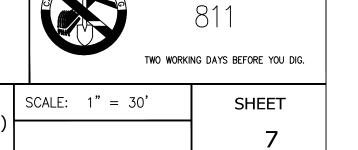
HORIZONTAL SCALE: 1"=30'

- (5) INSTALL NEW 6-INCH FIRE HYDRANT ASSEMBLY PER DETAIL "WF-01" ON SHEET 9.
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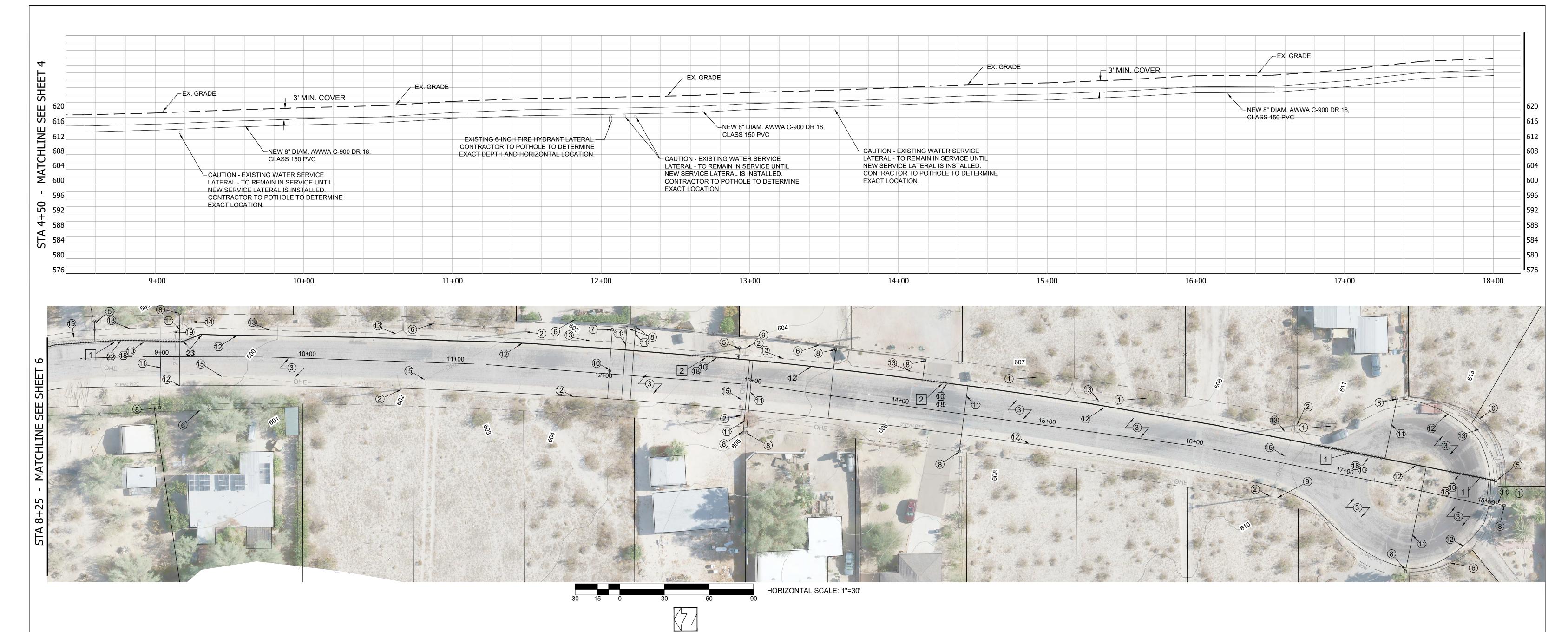
STA 8+25 - MATCHLINE SEE SHEET 6

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- 22 INSTALL NEW MJxMJ 6-INCH DIAMETER 11.25 DEGREE DUCTILE IRON FITTING
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- INSTALL NEW 6-INCH DIAMETER FLANGED X MJ DUCTILE IRON RESILIENT WED GREEN AGENCY IS NOTIFIED VALVE WITH RESTRAINED JOINT FITTINGS AND VALVE COVER AND RISER. SEE DETAIL Indorground Corvice "WV-02" ON SHEET 10 Jnderground Service Alert "WV-02" ON SHEET 10.



PROJECT TITLE: APPROVED FOR CONSTRUCTION BY: PREPARED UNDER THE DIRECT SUPERVISION OF: BORREGO WATER DISTRICT (CAPITAL IMPROVEMENTS PROJECTS) BENDING ELBOW, WEATHER VANE, ROCKING CHAIR DRIVE, WALKING H AND DOUBLE O WATER IMPROVEMENTS PROJECT 63,588 No. 63588 R.C.E. NO. R.C.E. NO OF  $\underline{10}$  SHEET DAVID B. DALE, PE  $\star \setminus \text{Exp. } 9-30-22$ WATER IMPROVEMENT PLANS JOB NO. 09/30/22 WALKING H - STATION 0+00 TO 8+25 REG. EXP. REG. EXP. DATE



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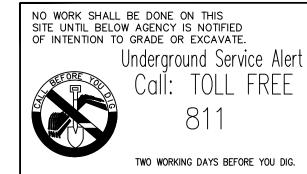
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DETAIL ON SHEET 10.

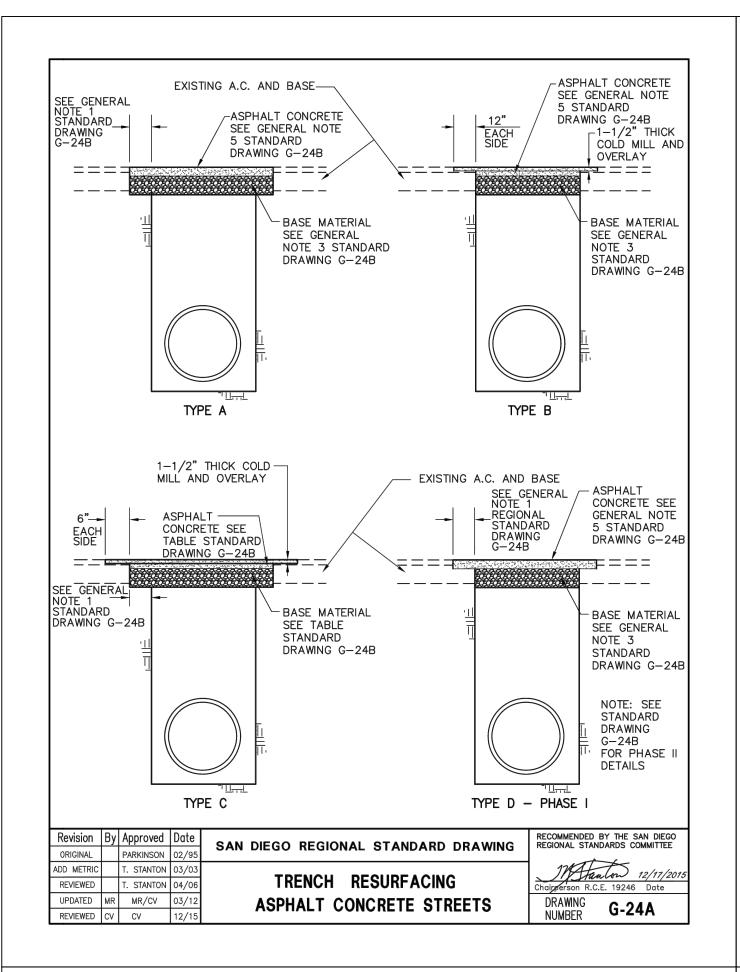
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			TWO WORKING DAYS B	EFORE YOU DIG.				
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			(State)	DAVID B. DALE	BE	REGO WATER DISTRICT (CAPITAL IMPROVEMENTS PROJECTS) ENDING ELBOW, WEATHER VANE, ROCKING CHAIR DRIVE, ALKING H AND DOUBLE O WATER IMPROVEMENTS PROJECT		8
			R.C.E. NO.	No. 63588	R.C.E. NO.	ET CONTENT:		OF 10 SHEET
_ I	eer preparing these plans will not be responsible uses of these plans. All changes to the plans	DATE		OP CALIFORITY  DATE		WATER IMPROVEMENT PLANS DOUBLE O - STATION 8+25 TO 18+00		JOB NO.



2" BLOWOFF

(PLAN VIEW)

IN AGENCY'S SPECIFICATIONS

APPROVED MATERIALS LIST

SIZE x 2" SERVICE SADDLE

(7) GATE WELL WITH CAP SEE WV-01 &

"K" RIGID OR SOFT

(2) DI END CAP

| WV-02

ORIGINAL Kercheval 12,

 Add Metric
 T. Stanton
 03/0

 Replaced W-07
 J. Tomasulo
 10/0

 Delete Metric
 MR
 B. KNOLL
 03/1

 Reviewed
 MR
 B. KNOLL
 10/1

WATER MAIN

3) FOR 2" BLOW-OFFS ON STEEL MAINS USE WELD ON

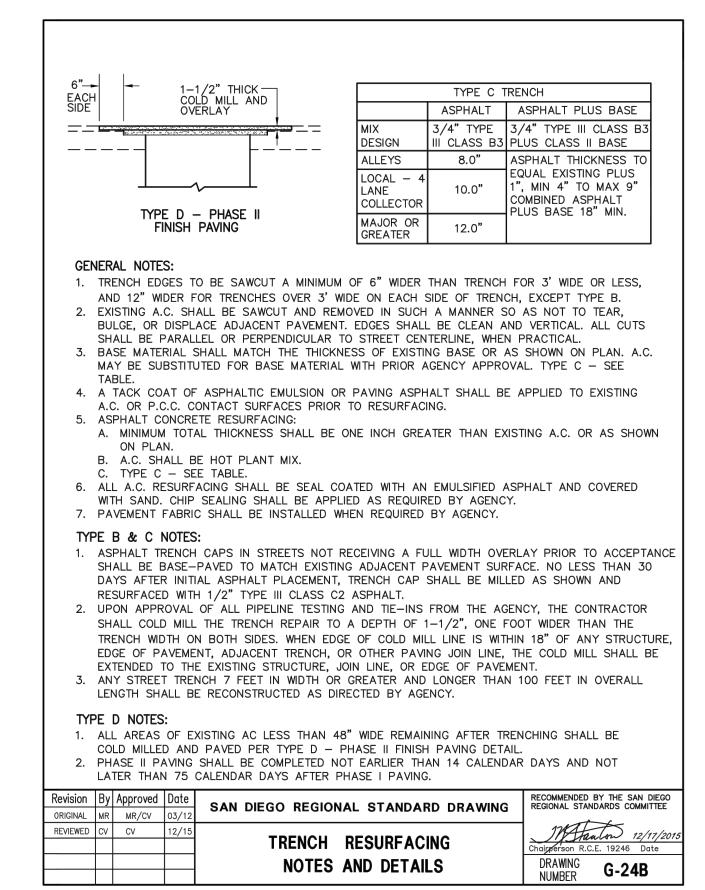
SIZE AND DESCRIPTION

CONCRETE THRUST BLOCKS SEE WT-01

2" BRONZE MIPT x COMP CORPORATION

2" x REQ'D LENGTH COPPER PIPE TYPE

FROM END OF MAIN



SIZE AND DESCRIPTION

TRACER WIRE (AS REQUIRED) PER WP-01

(1) GATE WELL WITH CAP SEE WV-01 OR

(13) | 6" FLG x MJ/PO ADAPTER (IF REQUIRED)

M Stanton 12/17/2

WF-01

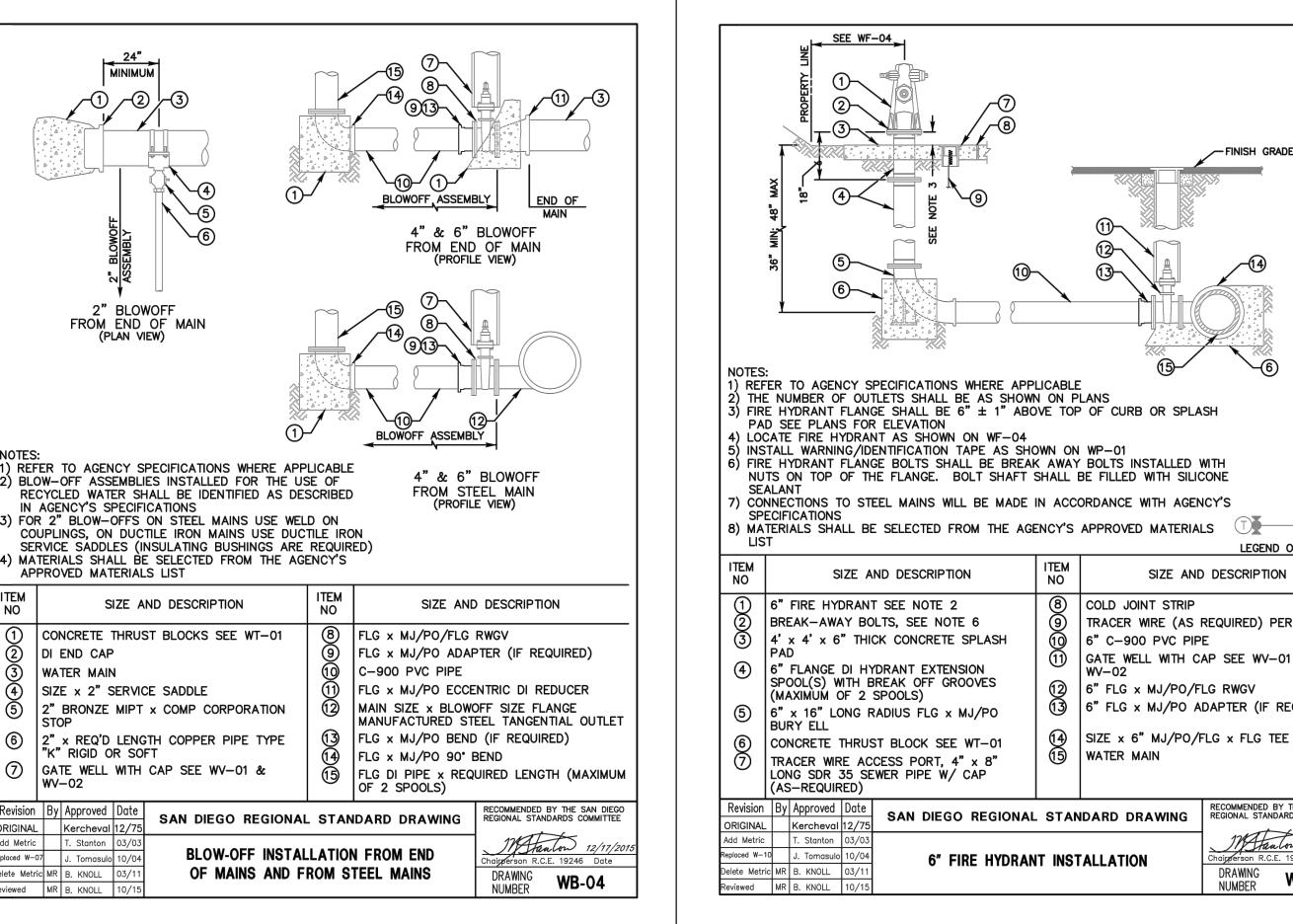
airperson R.C.E. 19246 Date

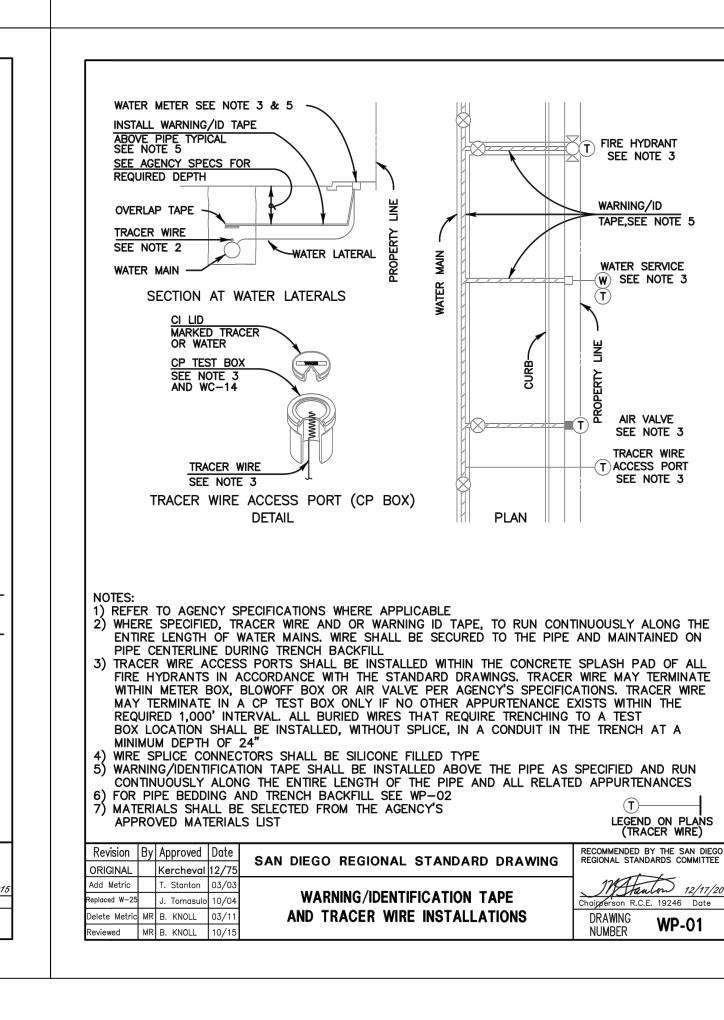
DRAWING

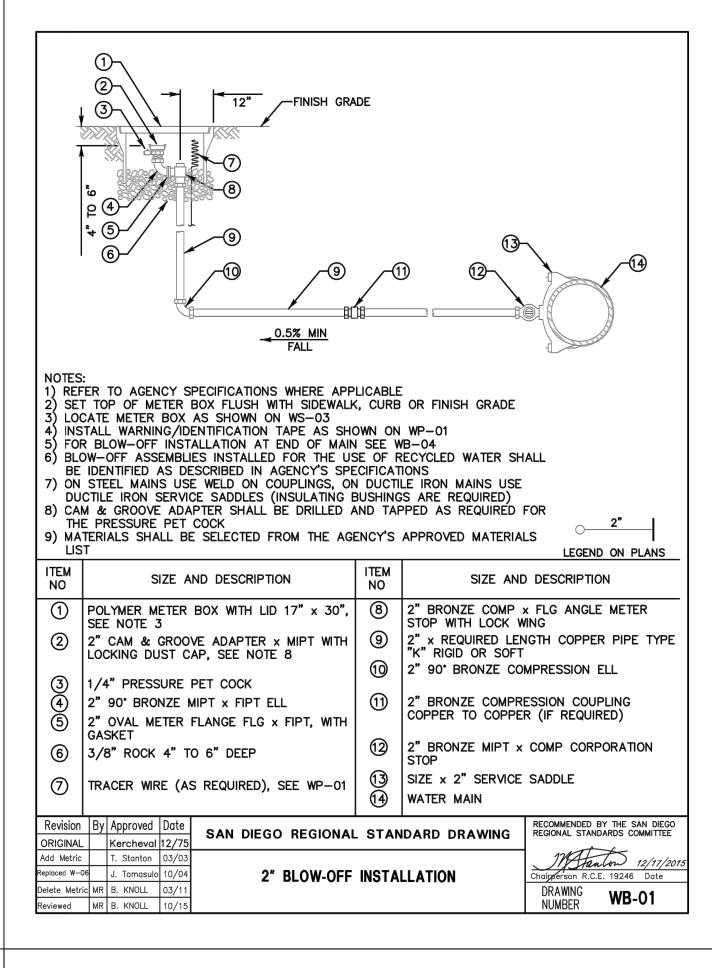
NUMBER

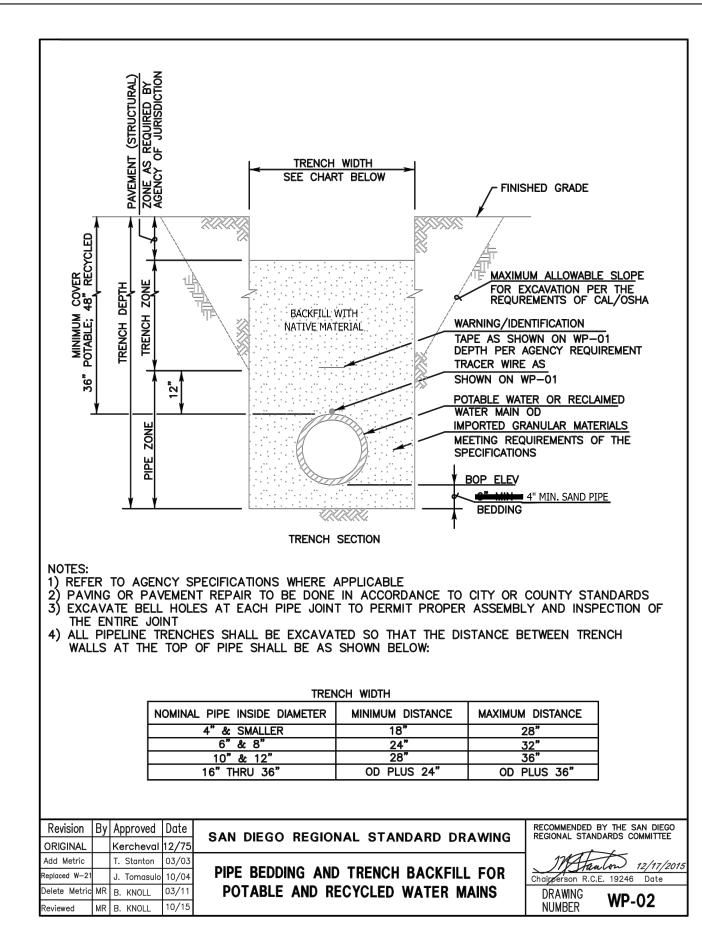
12 6" FLG x MJ/PO/FLG RWGV

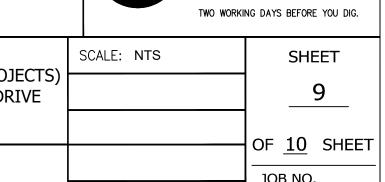
8 | COLD JOINT STRIP











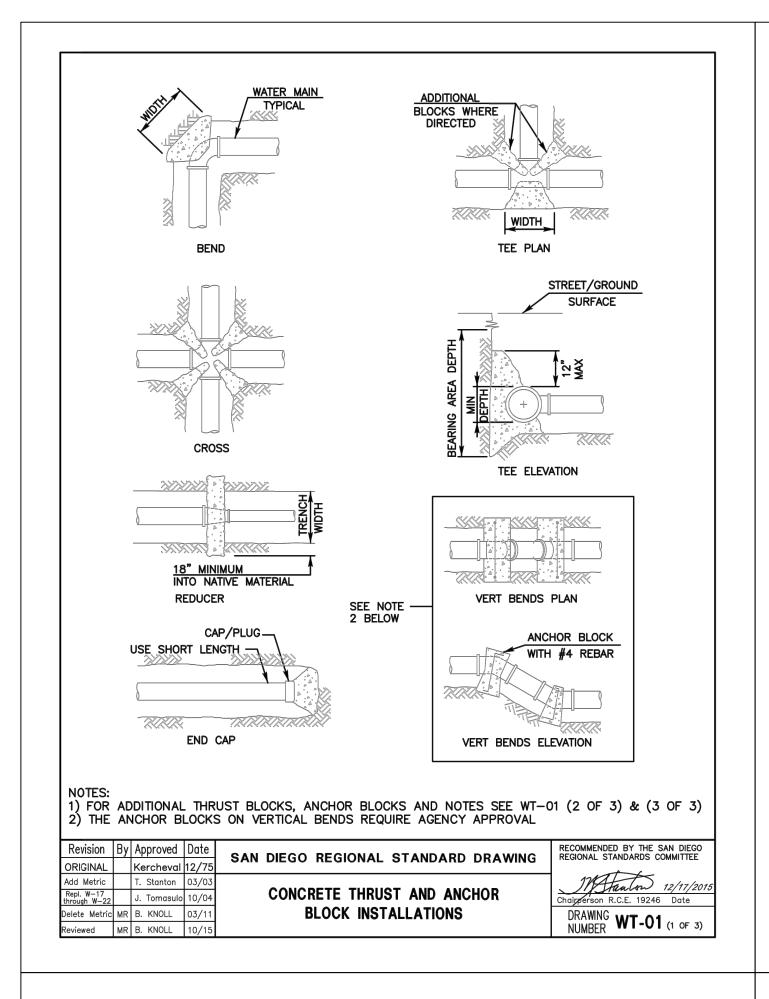
NO WORK SHALL BE DONE ON THIS

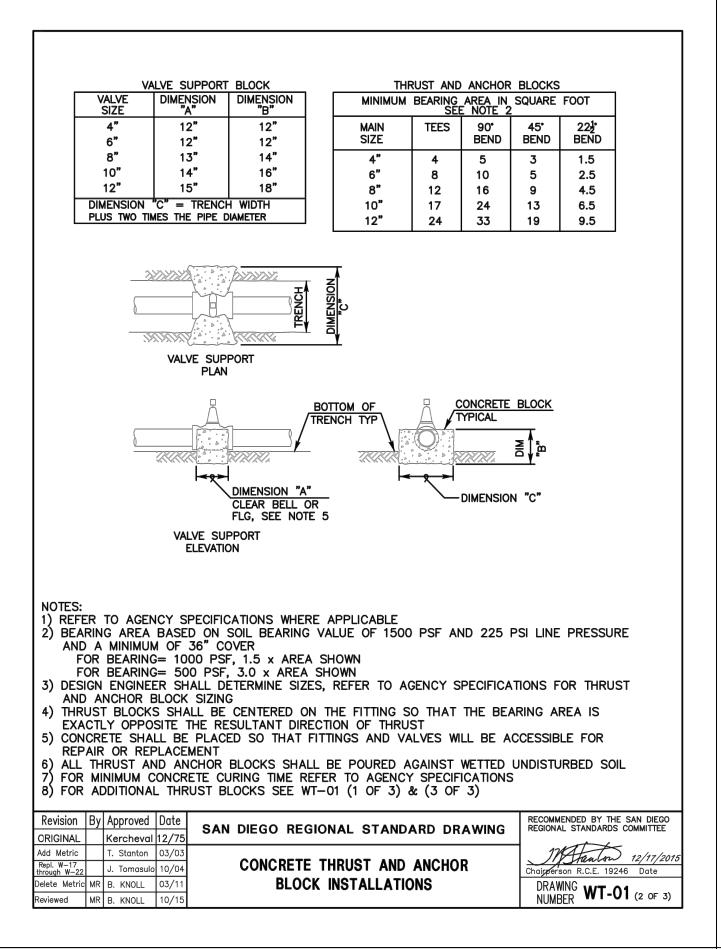
SITE UNTIL BELOW AGENCY IS NOTIFIED

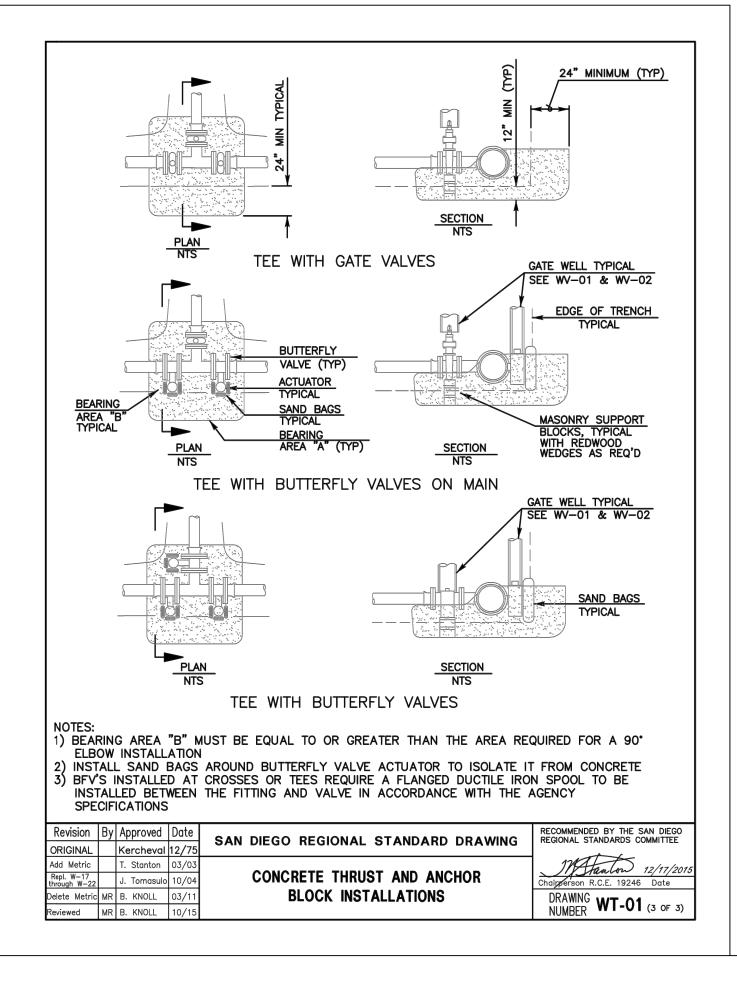
OF INTENTION TO GRADE OR EXCAVATE.

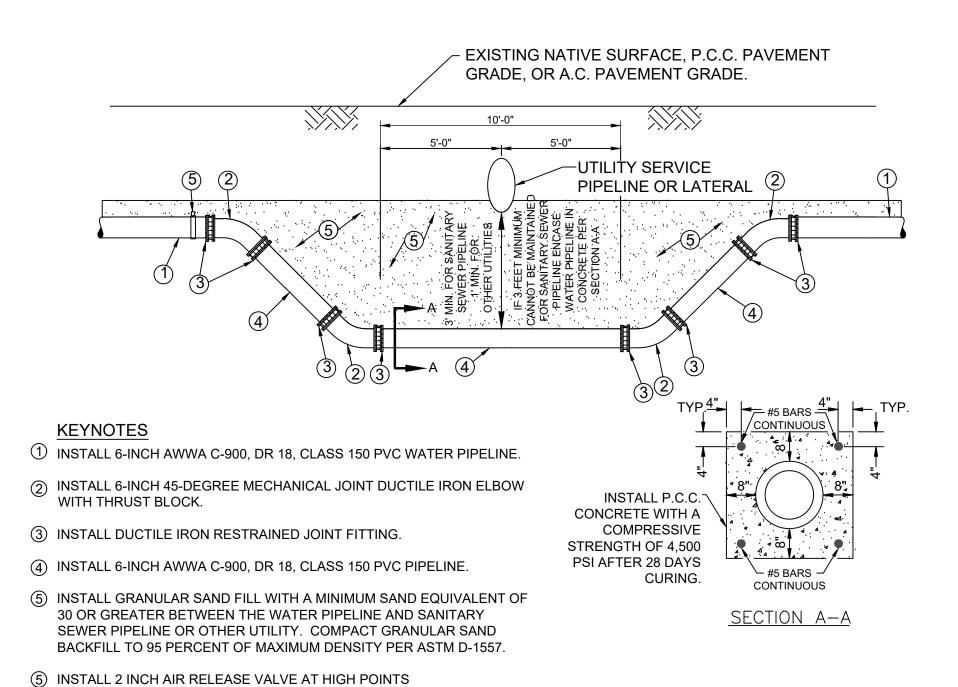
Underground Service Alert

					TWO WORK	NING DATS BEFORE 100 BIG.
NO. REVISIONS:  APPROVED DATE	APPROVED FOR CONSTRUCTION BY:	PREF	EPARED UNDER THE DIRECT SUPERVISION OF:		SCALE: NTS	SHEET
		DAVID B. DALE  No. 63588		BORREGO WATER DISTRICT (CAPITAL IMPROVEMENTS PROJECTS) BENDING ELBOW, WEATHER VANE AND ROCKING CHAIR DRIVE WATER IMPROVEMENTS PROJECT		9
UNAUTHORIZED CHANGES & USES: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans	R.C.E.	NO.   * Exp. 9-30-22 * DAVID	06/30/20_	SHEET CONTENT:  DETAILS		OF <u>10</u> SHEET JOB NO.
must be in writing and must be approved by the preparer of these plans.	DATE REG. E	(۲.	DATE REG. EXP.			







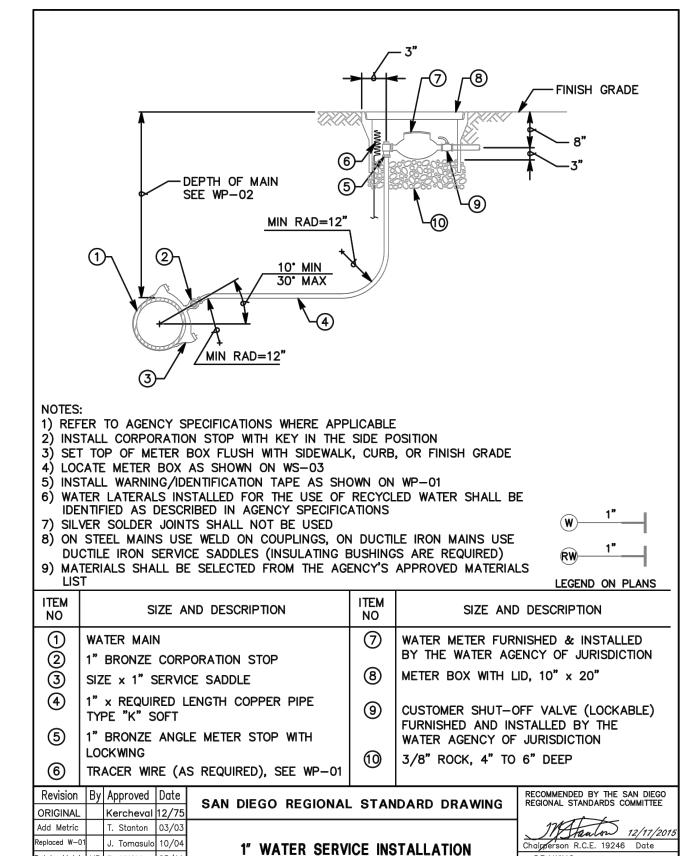




1. IF THE DISTANCE FROM THE TOP OF THE WATER PIPELINE TO THE EXISTING NATIVE SURFACE OR A.C. PAVEMENT IS LESS THAN 3 FEET, ENCASE THE WATER PIPELINE IN P.C.C. FOR A DISTANCE OF 5 FEET PERPENDICULAR TO EACH SIDE OF THE SANITARY SEWER PIPELINE OR UTILITY PER SECTION A-A TO THE RIGHT.

- 2. THIS DETAIL WILL BE REQUIRED IF UTILITY CONFLICTS ARE ENCOUNTERED DURING THE CONSTRUCTION OF THE NEW WATER PIPELINE.
- 3. WATER PIPELINE DIAMETER SIZE PER PLANS.

UTILITY CROSSING DETAIL (UNDER)

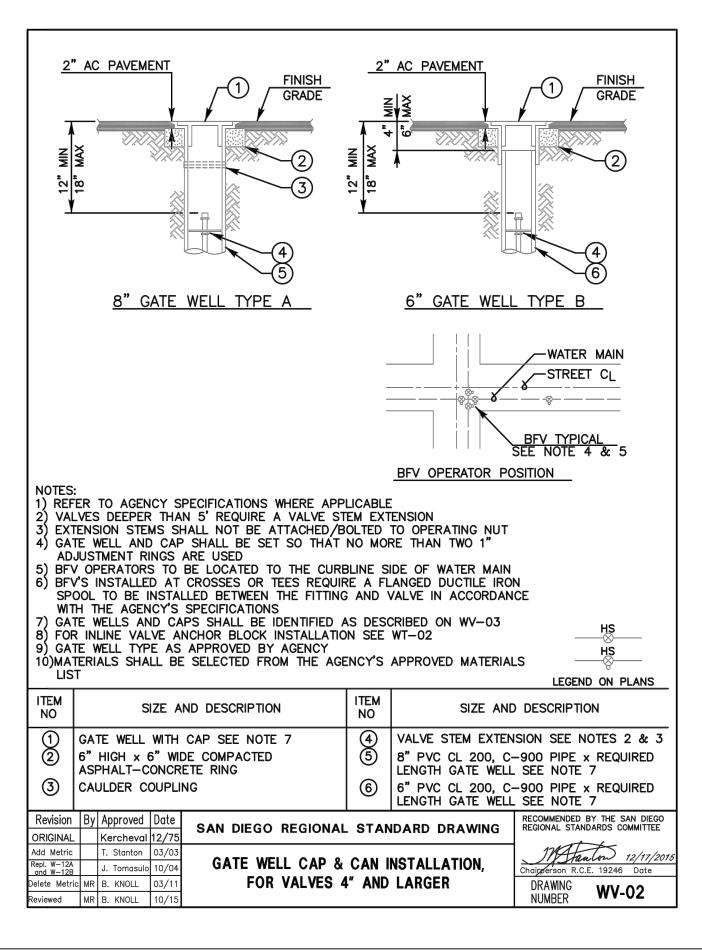


1" WATER SERVICE INSTALLATION

DRAWING WS-01

Replaced W-01 J. Tomasulo 10/04 Delete Metric MR B. KNOLL 03/1

Reviewed MR B. KNOLL 10/1





						TWO	VO WORKING DAYS BEFORE YOU DIG.
NO. REVISIONS:	APPROVED DATE	APPROVED FOR CONSTRUCTION BY:		PREPARED UNDER THE DIRECT SUPERVISION OF:	PROJECT TITLE:	SCALE: NTS	SHEET
			DAVID B. DALE No. 63588		BORREGO WATER DISTRICT (CAPITAL IMPROVEMENTS PROJECTS) BENDING ELBOW, WEATHER VANE AND ROCKING CHAIR DRIVE WATER IMPROVEMENTS PROJECT		
UNAUTHORIZED CHANGES & USES: The engine for, or liable for, unauthorized changes to or must be in writing and must be approved by	eer preparing these plans will not be responsible uses of these plans. All changes to the plans the preparer of these plans.	DATE R.C.E	Exp. 9-30-22 *	DAVID B. DALE, PE  R.C.E. N  06/30/2  DATE  REG. EXP	SHEET CONTENT:  DETAILS		OF <u>10</u> SHEET JOB NO.