APPLICANT TO FURNISH AND/OR INSTALL:

ALL TRENCHING AND EXCAVATION PER TMWA ENGINEERING & CONSTRUCTION STANDARDS SECTIONS 4 AND 5.

ALL SURVEY STAKING NECESSARY TO CLARIFY RIGHT-OF-WAY, EASEMENTS, PROPERTY

LINES, ELEVATIONS, ETC. ALL NECESSARY PERMITS, PAVEMENT CUTTING, PAVEMENT REMOVAL, AND PAVEMENT

APPLICANT TO INSTALL WATER METER SETTER AND ENCLOSURE.

WATER METER INSTALLED BY TMWA.

ALL REQUIRED LINE PRESSURE TESTS AND WELDING/FUSION QUALITY TESTS SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C600, C605 AND TMWA ENGINEERING & CONSTRUCTION STANDARDS. MOST STRINGENT STANDARD SHALL APPLY. ALL PRESSURE TESTS SHALL BE PERFORMED BEFORE THE PIPING IS FLUSHED, DISINFECTED OR SAMPLED FOR AN ANALYSIS OF WATER QUALITY. ADDRESSES OR BUILDING DESIGNATION.

LETTER TO VERIFY THAT ELEVATIONS ARE AT ENGINEERED SUB-GRADES PRIOR TO UTILITY CONSTRUCTION.

ALL PRIVATE DOMESTIC AND IRRIGATION LINES BEYOND THE POINT OF CONNECTION AT TMWA'S METER PROVISION AND ALL NECESSARY WATER PRESSURE REGULATION EQUIPMENT (REFER TO THE MOST CURRENT EDITION OF THE UNIFORM PLUMBING CODE WHICH HAS BEEN ADOPTED BY THE GOVERNMENTAL ENTITY HAVING JURISDICTION OVER THE PROJECT).

WATER MAINS SHALL NOT BE PLACED IN SERVICE UNTIL DISINFECTED PER AWWA STANDARD C651 AND AN ANALYSIS WHICH INDICATES IT MEETS PRIMARY STANDARDS FOR COLIFORM BACTERIA HAS BEEN OBTAINED. FINAL WATER QUALITY TESTS WILL BE FORWARDED TO THE REVIEWING AGENCY UPON COMPLETION OF ANALYSIS.

CONTRACTOR TO COORDINATE WITH TMWA INSPECTOR REGARDING DISCHARGE OF SPENT CHLORINATED WATER.

APPROX. 167' OF 10" AWWA C151 DUCTILE IRON MAIN PIPE WITH ALL FITTINGS AND APPURTENANCES.

(DUCTILE IRON MAIN PIPE SHALL BE PRESSURE CLASS 350 UNLESS OTHERWISE

V-BIO POLYETHYLENE WRAP TO BE USED ON ALL DUCTILE IRON PIPE (DIP) AND FITTINGS PER AWWA STANDARD C105.

ALL RESTRAINED JOINT PIPING SHALL BE DUCTILE IRON PIPE (RJ-DIP). BELL AND SPIGOT PUSH-ON JOINTS SHALL BE RESTRAINED USING RUBBER GASKETS WITH STAINLESS STEEL LOCKING SEGMENTS VULCANIZED INTO THE RUBBER GASKET. RESTRAINED JOINT FITTINGS SHALL BE MECHANICAL JOINT (MJ) DUCTILE IRON RESTRAINED WITH MECHANICAL JOINT WEDGE ACTION RESTRAINT GLANDS.

ALL CONCRETE FOR THRUST BLOCKS PER TMWA ENGINEERING & CONSTRUCTION STANDARDS AND DRAWING NUMBER 10L-2.

APPROX. 36' OF 2" AWWA C901 CTS HDPE TUBING WITH ALL FITTINGS AND APPURTENANCES. (INCLUDING ALL HOT TAPS 2" AND UNDER). DOMESTIC

SEPARATION BETWEEN WATER SERVICE TAPS:

C900 PVC PIPE, TRANSITE (AC) PIPE - SERVICE TAPS ON THE SAME SIDE OF PIPE SHALL HAVE A MINIMUM 36" SEPARATION. SERVICES STAGGERED SIDE TO SIDE OF PIPE SHALL HAVE A MINIMUM 18" SEPARATION. NO SERVICES ALLOWED WITHIN 24" OF CUT END OR PIPE TO BELL TRANSITION.

DUCTILE IRON PIPE, CAST IRON PIPE, STEEL PIPE - SERVICE TAPS ON THE SAME SIDE OF PIPE SHALL HAVE A MINIMUM 18" SEPARATION. SERVICES STAGGERED SIDE TO SIDE OF PIPE SHALL HAVE A MINIMUM 9" SEPARATION. NO SERVICES ALLOWED WITHIN 24" OF CUT END OR PIPE TO BELL TRANSITION. TRAFFIC RATED (TR) ENCLOSURES SHALL BE USED WHEN LOCATED IN TRAFFIC AREAS OR WITHIN 3' OF DRIVEWAYS.

1 - 17" x 30" SINGLE WATER METER PROVISION ASSEMBLY(IES).



PUBLIC FIRE HYDRANT LATERALS AND PUBLIC FIRE HYDRANT ASSEMBLIES WITH ALL FITTINGS AND APPURTENANCES. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL FIRE HYDRANT LOCATIONS AND CONSTRUCT FIRE HYDRANTS TO SPECIFICATIONS OUTLINED BY THE LOCAL FIRE JURISDICTION.

APPROX. 52' OF 6" AWWA C900 PVC PIPE FOR FIRE SERVICE(S).

APPROX. 36' OF 6" AWWA C151 RESTRAINED JOINT - DUCTILE IRON PIPE FOR FIRE SERVICE(S).

> PRESSURE REGULATOR VALVE (PRV) - PRV'S ARE REQUIRED WITHIN THIS DEVELOPMENT TO REDUCE WATER PRESSURE IN DOMESTIC LINES AND IRRIGATION SYSTEMS. WATER PRESSURE MAY BE GREATER THAN 80 PSI WHEN THE SERVICE IS INITIALLY CONNECTED OR IN THE FUTURE AS A RESULT OF PRESSURE INCREASES PLANNED WITHIN THE AREA. THE APPLICANT IS RESPONSIBLE FOR THE INITIAL INSTALLATION AND MAINTENANCE OF THE ASSEMBLY(IES). WHEN A CHANGE IN OWNERSHIP OCCURS, FUTURE MAINTENANCE OF THE ASSEMBLY(IES) BECOMES THE RESPONSIBILITY OF THE NEW OWNER.

NNPH PERMITTING **PURPOSES ONLY**

TRUCKEE MEADOWS WATER AUTHORITY APPROVED FOR CONSTRUCTION WATER FACILITIES ONLY

Karie Mason	10/24/2023
ENGINEERING Amie Marche	DATE 10/25/2023
BACKFLOW	DATE

TMWA TO FURNISH AND/OR INSTALL:

FIELD INSPECTOR TO INSPECT MAINS AND SERVICES

HOT TAP LABOR (GREATER THAN 2" ONLY)

1 − 2" OMNI R2 − SENSUS WATER METER(S) FOR DOMESTIC.

GENERAL COMMENTS:



CONTRACTOR TO CALL PROJECT COORDINATOR AT (775) 834-8101 48-HOURS PRIOR TO START OF CONSTRUCTION TO SCHEDULE ON-SITE INSPÉCTION. (INCLUDE WORK ORDER NUMBER 23-9264)

APPLICANT TO NOTIFY TMWA OF ANY DESIGN AND/OR ADDRESS CHANGES.

ALL MATERIALS, INCLUDING BACKFILL, SHALL BE AT THE JOB SITE PRIOR TO START OF CONSTRUCTION AND SHALL COMPLY WITH TMWA ENGINEERING & CONSTRUCTION STANDARDS.

MAINTAIN POTABLE WATER AND SS/SD/NON-POTABLE HORIZONTAL AND VERTICAL CLEARANCES AS SPECIFIED IN NEVADA ADMINISTRATIVE CODE (NAC) SECTION 445A AND TMWA ENGINEERING & CONSTRUCTION STANDARDS SECTION 1.1.

AT ALL CROSSINGS, UNDERGROUND ELECTRIC FACILITIES SHALL BE LOCATED BELOW WATER MAINS AND/OR WATER SERVICES WITH A MINIMUM OF 2-FEET VERTICAL CLEARANCE.

ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS SET FORTH IN THE TMWA ENGINEERING & CONSTRUCTION STANDARDS. THE CONTRACTOR SHALL SECURE COPIES OF THE AFOREMENTIONED CONSTRUCTION SPECIFICATIONS ON HIS/HER OWN BEHALF. THE ENGINEERING & CONSTRUCTION STANDARDS MAY BE DOWNLOADED FROM: www.tmwa.com/standards

SYMBOLS ARE NOT TO SCALE AND DO NOT NECESSARILY REPRESENT ACTUAL LOCATIONS OF FACILITIES.

THESE DRAWINGS ARE BASED ON CIVIL PLANS DATED: APRIL, 2023

THIS MAP ILLUSTRATES DATA COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT A SURVEY OF THE PREMISES. NO RESPONSIBILITY IS ASSUMED AS TO THE SUFFICIENCY OR ACCURACY OF THE DATA DISPLAYED HEREON.

CAUTION: CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING WORK AROUND ALL EXISTING UTILITIES. PRIOR TO EXCAVATION, CHECK TO ENSURE ADDITIONAL DEPTH IS NOT REQUIRED TO ACCOMMODATE INSTALLATION OF GAS FACILITIES.

SOILS RETENTION MAY BE REQUIRED AROUND WATER METER BOXES, FIRE HYDRANTS, AND OTHER FACILITIES IF SLOPES EXCEED 15%.

WATER METERS SHALL BE LOCATED WITHIN A PUBLIC UTILITY EASEMENT (PUE).

TOP OF WATER METER ENCLOSURE SHALL BE SET 0.2 FEET ABOVE HIGHEST FINISHED GRADE SURROUNDING ENCLOSURE WITHIN LANDSCAPED AREAS. FOR INSTALLATIONS IN CONCRETE OR OTHER PAVED AREAS, SET TOP OF LID FLUSH WITH SURROUNDING SURFACE.

APPLICANT TO ADVISE PLUMBING CONTRACTOR OF HIS/HER RESPONSIBILITY TO VERIFY WATER PRESSURE DURING STATIC CONDITIONS AT ALL SERVICE LOCATIONS. THE PLUMBING CONTRACTOR IS REQUIRED TO CONFORM TO THE MOST CURRENT EDITION OF THE UNIFORM PLUMBING CODE WHICH HAS BEEN ADOPTED BY THE GOVERNMENTAL ENTITY HAVING JURISDICTION OVER THE PROJECT. SPECIAL ATTENTION SHOULD BE GIVEN TO THE SECTION OF THE CODE CONCERNING STATIC WATER PRESSURE IN EXCESS OF 80 PSI.

UNUSED SERVICE LATERALS SHALL BE RETIRED BACK TO TMWA'S WATER MAIN.

WATER MAINS TO EXTEND A MINIMUM OF 10-FEET BEYOND END OF PAVING. MAINS ARE NOT TO BE INSTALLED UNDER SIDEWALK AND/OR CURB & GUTTER.

DURING CONSTRUCTION ALL OPEN ENDS OF PIPES OR FITTINGS SHALL BE SEALED AT THE END OF EACH WORKING DAY TO PREVENT THE ENTRY OF FOREIGN OBJECTS.

ALL PIPE AND APPURTENANCES SHALL BE NSF 61 CERTIFIED.

BACKFLOW PREVENTION:

BACKFLOW PREVENTION IS REQUIRED BY NEVADA ADMINISTRATIVE CODE (NAC) SECTION

- 445A.67185. 1. DOMESTIC AND IRRIGATION BACKFLOW PREVENTION ASSEMBLIES SHALL BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE METER.
- 2. FOR FIRE SERVICE BACKFLOW ASSEMBLY(IES): CONTACT BACKFLOW PREVENTION GROUP FOR TYPE AND REQUIRED LOCATION.

BACKFLOW PREVENTION GROUP WILL APPROVE WATER METER SET AND PERMANENT WATER SERVICE AFTER: 1. THE ASSEMBLY IS INSTALLED PER TMWA INSTALLATION STANDARDS AND INSPECTED BY

- THE BACKFLOW PREVENTION GROUP. 2. OPEN TRENCH, DITCH, AND/OR SLURRY INSPECTIONS COMPLETED BY THE BACKFLOW
- 3. FINAL INSTALLATION AND FREEZE PROTECTION INSPECTED BY THE BACKFLOW
- PREVENTION GROUP.
- 4. CALL (775) 834-8288 FOR INSPECTIONS OR QUESTIONS.

THE OWNER/DEVELOPER IS RESPONSIBLE TO CONTACT TMWA BACKFLOW PREVENTION GROUP FOR CURRENT BACKFLOW INSTALLATION STANDARDS.

USC APPROVED DCDA (DOUBLE CHECK DETECTOR ASSEMBLY)

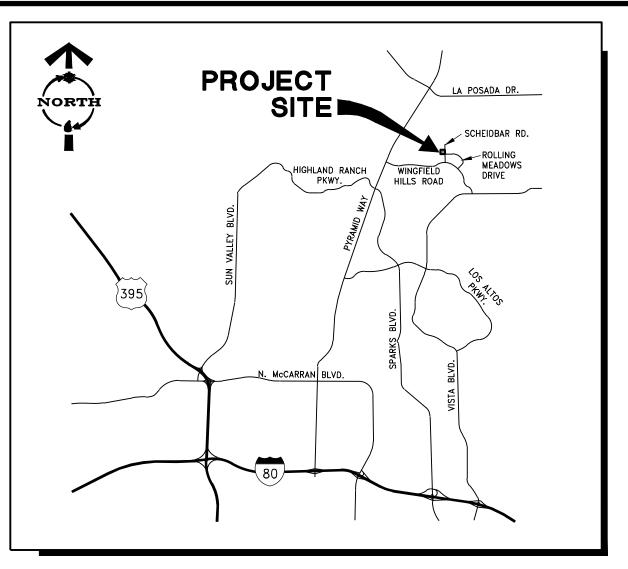
TESTING OF BACKFLOW PREVENTION ASSEMBLY IS REQUIRED WITHIN 7-10 DAYS AFTER METER IS SET OR SERVICE ACTIVATION. A COPY OF TEST RESULTS ARE TO BE FORWARDED TO TMWA WATER QUALITY/BACKFLOW PREVENTION PERSONNEL BY A CERTIFIED ASSEMBLY TESTER.

DOMESTIC SERVICES

FIRE SERVICES

USC APPROVED RP (REDUCED PRESSURE PRINCIPLE ASSEMBLY)

IF INITIAL TEST DONE BY TMWA FIELD PERSONNEL FAILS, RE-TESTING OF BACKFLOW PREVENTION ASSEMBLY IS REQUIRED WITHIN 7-10 DAYS AFTER METER IS SET OR SERVICE ACTIVATION. A COPY OF TEST RESULTS ARE TO BE FORWARDED TO TMWA WATER QUALITY/BACKFLOW PREVENTION PERSONNEL BY A CERTIFIED ASSEMBLY TESTER.



New Main Date Installed: Pressure Test Date: |Hours Tested: Inspector: Contractor: Feet Laid Size Type Main/Svc Retired / Abandoned / Removed Feet Ret. Size Type # of Meter boxes Inst./Size: # of Setters Inst./Size:

101

FOR TMWA USE ONLY

NEW BUSINESS WATER

|Map #

WO#

528-010-63

SR 95-BELVEDERE LLC

PROPOSED

FIRE STATION

528-010-61

CITY OF SPARKS

FUTURE ROLLING MEADOWS DR.

(BY OTHERS) DEDICATION AREA PM 5686

528-010-60

SR 95-BELVEDERE LLC

VICINITY MAP

NOT TO SCALE

NORTE

528-010-63

SR 95-BELVEDERE LLC

528-010-62

SR 95-BELVEDERE LLG

-(8"SS]-/

ABBREVIATIONS

ARV ASSY	AIR RELEASE VALVE ASSEMBLY
BOT BOV	BOTTOM (OF PIPE)
CL	BLOW-OFF VALVE
	CENTERLINE CONSTRUCT
	COPPER TUBE SIZE
	DUCTILE IRON PIPE
DIA	DIAMETER
	DOUBLE CHECK DETECTOR ASSEMBLY
	EXISTING
	FLANGE COUPLING ADAPTER
	FIRE HYDRANT
FLG OR FL	
	FLUSH VALVE ASSEMBLY
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HP	HIGH POINT
IE	INVERT ELEVATION
MJ	MECHANICAL JOINT
	MECHANICALLY RESTRAINED JOINT
	OUTSIDE DIAMETER
	PROPERTY LINE
PO	PUSH ON
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE PIPE
R	RADIUS
RFCA	RESTRAINED FLANGE COUPLING ADAPTER
	RIGHT OF WAY
RPBA	REDUCED PRESSURE BACKFLOW ASSEMBLY
STL	STEEL
TB	THRUST BLOCK

← 11° ELBOW ∠ 22° ELBOW

TEST STATION

TYPICAL

WATER

WITH CROSSING

ᅜ 90° ELBOW

ØØ BACKFLOW PREVENTOR



► FLUSH VALVE

[√] 45° ELBOW

 METER-DUAL METER−SINGLE

⋖ REDUCER SERVICE-DUAL SERVICE−SINGLE

> ഥ TEE

∨ VALVE

CHLORINE DOSAGE NUMBER OF 5 gram CALCIUM HYPOCHLORITE TABLETS REQUIRED FOR DOSE OF 25mg/L

TABLETS REGUIRE	D TON DOOL O	2511	'9/ L
PIPE DIAMETER	LENGTH OF PI	PE SE	CTION
INCHES	FE	ET	
	13 OR LESS	18	20
6	1	1	1
8	1	2	2
10	2	3	3
12	3	4	4



THIS MAP ILLUSTRATES DATA COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT A SURVEY OF THE PREMISES. NO RESPONSIBLILITY IS ASSUMED AS TO THE SUFFICIENCY OR ACCURACY OF THE DATA DISPLAYED HEREON.

WOOD RODGERS IS NOT RESPONSIBLE FOR PUBLIC WATER SYSTEM ANALYSIS, INCLUDING PIPE SIZING & SYSTEM PRESSURES.

WOOD RODGERS BUILDING RELATIONSHIPS ONE PROJECT AT A TIME

SITE PLAN

NOT TO SCALE

Tel 775.823.4068 1361 Corporate Boulevard Reno, NV 89502 Fax 775.823.4066 MATTHEW J ROULIAS Exp: 12-31-23 CIVIL

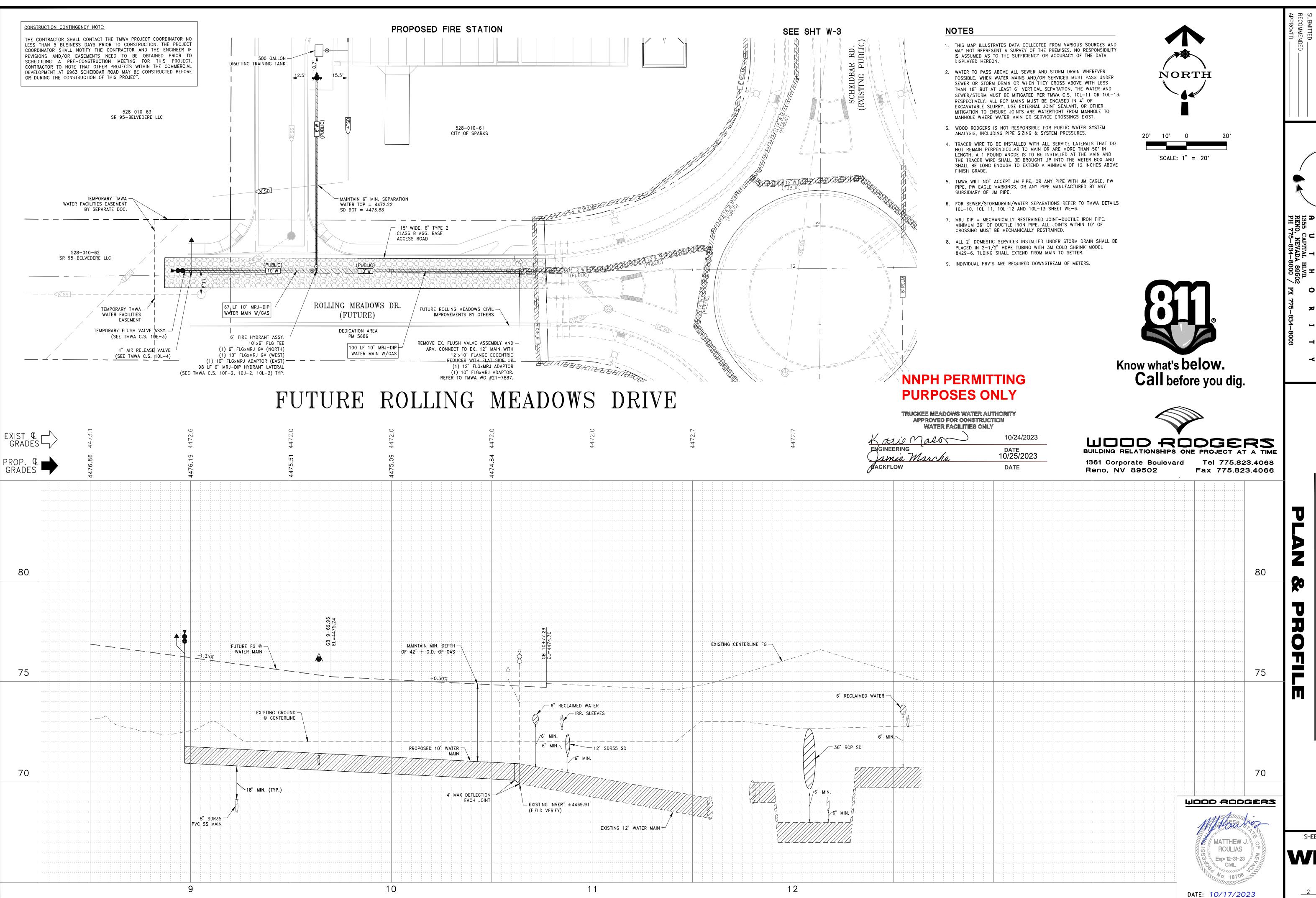
Method DATE: 10/19/2023

WOOD RODGERS

SHEET NUMBER WE- 1

0

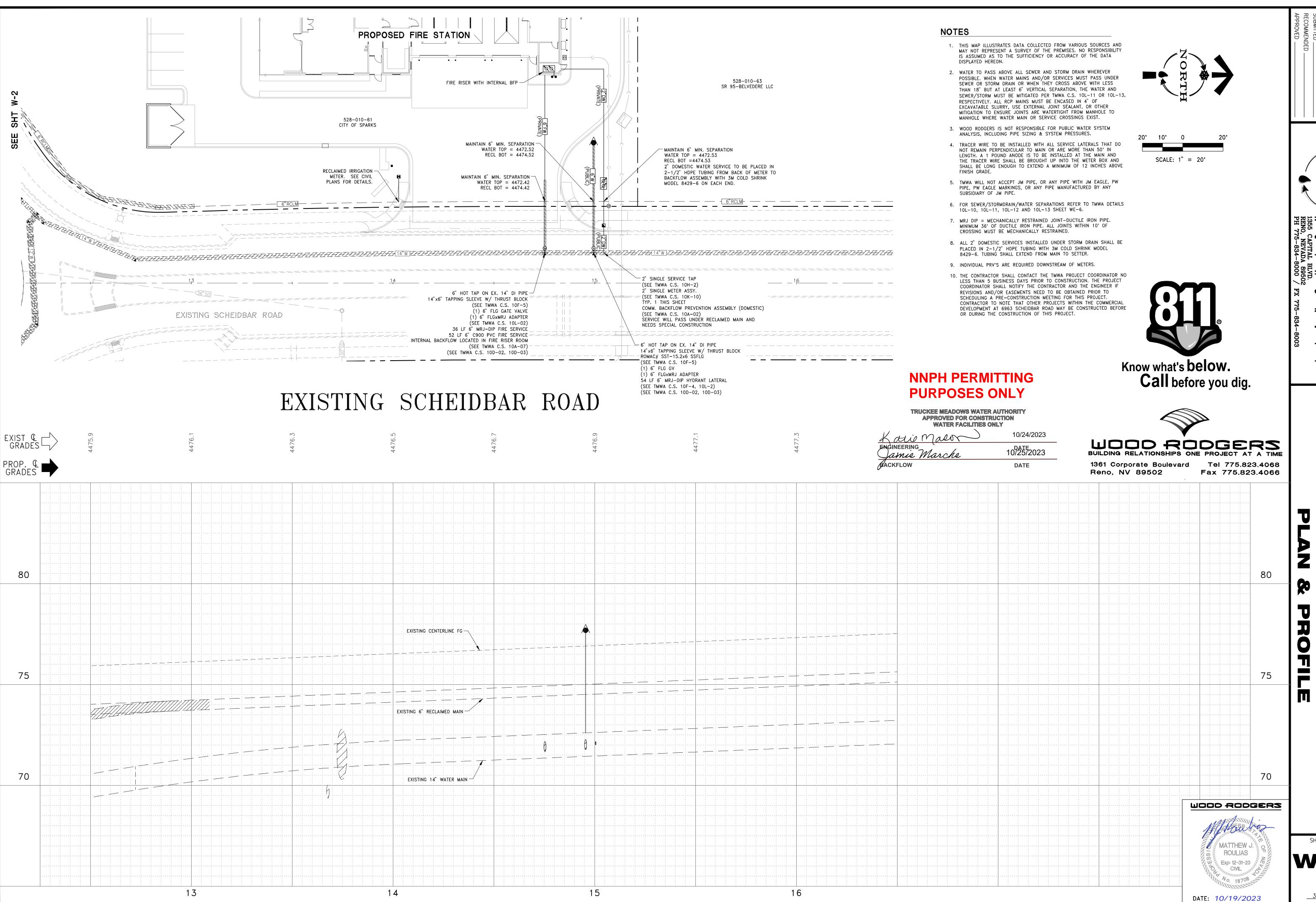
__1__ OF __7__



ATIO

SHEET NUMBER

0



OITA

ASSEMBLY SHALL BE A USC APPROVED LEAD FREE DEVICE.

THE RP SHALL BE INSTALLED ABOVE GRADE. GROUNDED ELECTRIC SUPPLY SHALL BE A MINIMUM OF 6" ABOVE BOTTOM OF RELIEF VALVE AND STUBBED

WATER TIGHT FLEXIBLE

SEALANT AT PIPE

PENETRATIONS

BEGIN RIGID PIPE

SEE NOTE 11

NO STOP AND WASTE VALVES.

<u></u> METER

FLOW

FREEZE PROOF INSULATED BOX AND 1 SOURCE OF HEAT ARE REQUIRED. 2 SOURCES OF HEAT ARE STRON INSULATED BOX SHALL SWING CLEAR OF ASSEMBLY TO PROVIDE CLEARANCES SHOWN OR INSULATED BOX

SIZED TO PROVIDE CLEARANCES SHOWN.

SPRING LOADED LID REQUIRED ON LARGE BOXES. THERMAL EXPANSION PROTECTION IS REQUIRED IN ANY DOMESTIC WATER SUPPLY SYSTEM THAT IS DOWNST

A BACKFLOW PREVENTION DEVICE. REFERENCE: UNIFORM PLUMBING CODE & NAC 445A.67235. INSPECTION BY TMWA BACKFLOW PREVENTION GROUP PERSONNEL REQUIRED BEFORE METER IS SET OR SE

1. REQUIRES ONE (1) TAPPING SLEEVE. REFER TO 10D-2.

4. ALL EXPOSED METAL MUST BE COATED WITH BRUSH ON MASTIC.

DATE

REV

3,000 PSI.

BELL TRANSISTION.

1 CONCRETE BULK

TŘUCKEĽ MEADOWS WATER

TAPPING SLEEVE (STAINLESS STEEL FLANGE)
FL x PO ADAPTER

1 MASTIC (1 GALLON CAN - BRUSH ON)

1 6" Ø SDR-35 PVC CONDUIT PIPE SECTION
1 6" Ø CAST IRON VALVE BOX WITH COVER MARKED "WATER"
1 FULL FACE GASKET

2. WHEN TAPPING STEEL OR OD STEEL BACKING PLATE MUST BE DESIGNED BY ENGINEER. WHEN

3. REFER TO DETAIL 10L-2 FOR THRUST BLOCK SIZING. BAG CONCRETE IS NOT ACCEPTABLE FOR

PAD OR THRUST BLOCK. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF

TAPPING OD STEEL SIZE ON SIZE, REDUCE TAP ONE SIZE THEN BELL UP AFTER TAP.

5. REMOVE TEST PLUG AND HYDROSTATICALLY PRESSURE TEST TAPPING SLEEVE NOT TO EXCEED

6. VALVE SHALL BE BLIND FLANGED AND PRESSURE TESTED AT TIME OF TAPPING SLEEVE PRESSURE

7. TAP SHALL BE A MINIMUM OF 24" FROM THE CUT OR SPIGOT END OF THE PIPE OR THE PIPE TO

MATERIAL LIST

APPENDIX 10D

DISTRIBUTION TAP INSTALLATIONS

STANDARD TAP 4" TO 12"

MANUFACTURER'S PRESSURE RATING, APPLY PIPE COMPOUND, AND REINSERT PLUG.

FL x FL RESILIENT WEDGE GATE VALVE WITH 2" OPERATING NUT (SIZE TO MATCH TAP DIAMETER

ACTIVATED. 10. IF INITIAL TEST DONE BY TMWA FIELD PERSONNEL FAILS, RETESTING OF BACKFLOW ASSEMBLY IS REQUIRED

DAYS AFTER METER IS SET OR SERVICE ACTIVATION. COPY OF TEST RESULTS TO BE FORWARDED TO TMWA BACKFLOW PREVENTION GROUP BY A CERTIFIED ASSEMBLY TESTER WITHIN THAT SAME TIMEFRAME.

11. MINIMUM DIMENSIONS FOR THE THRUST BLOCK BEARING AREA FOR PIPE 2" AND SMALLER SHALL BE 8" X 12" IN DEPTH. ALL OTHER SIZES TO BE DETERMINED BY ENGINEER.

~ th	DA
RUCKEE MEADOWS WATER	7/20
A U T H O R I T Y	RE
U -	0.70

DATE	APPENDIX 10A
7/2001	BACKFLOW PREVENTION ASSEMBLIES
REV	REDUCED PRESSURE PRINCIPLE ASSEMBLY FOR DOMESTIC USE
9/2016	EXTERNAL - HORIZONTAL

ED ELECTRIC AT LEAST 6" RELIEF VALVE.	
O TO THE NGLY SHALL BE	
TREAM FROM ERVICE IS O WITHIN 7 /A (8" AND	

DRAWING NUMBER

10A-2

DRAWING NUMBER

10D-3

REFER TO DETAIL 10J-2 FOR

REQUIREMENTS.

CONCRETE PAD UNDER VALVE

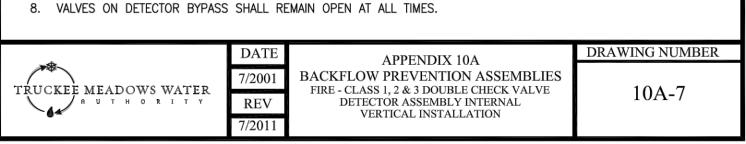
SHALL BE A MINIMUM OF 6" THICK. CONCRETE SHALL REMAIN CLEAR OF FLANGE AND

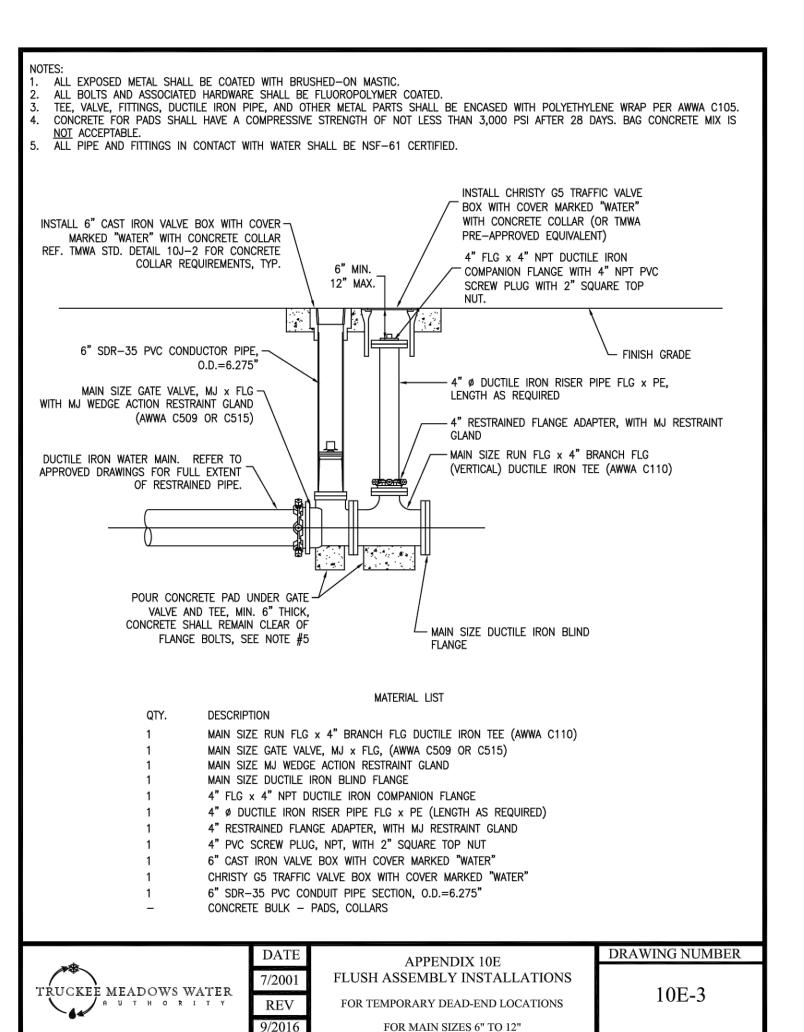
BOLTS.

- CONCRETE COLLAR AND CONDUIT

CONCRETE PAD

MIN. 4" THICK





MAIN SIZE	VENDOR	MAIN TYPE	4"	6"	8"	10"	12"
4"	SM ROM	DI/CI PVC	663-04800400-200 SST-4.90 x 4" FL				
6"	SM ROM	DI/CI PVC	663-06630400-000 SST-7.00 x 4" FL	663*06630600-200 SST-7.00 x 6" FL			
0	SM ROM	TR	663-(OD)400-000 SST-(OD) x 4" FL	663-(OD)0600-200 SST-(OD) x 6" FL			
	SM ROM	DI/CI PVC	663-09050400-000 SST-9.06 x 4" FL	663-09050600-000 SST-9.06 x 6" FL			
8"	SM ROM	TR	663-(OD)0400-000 SST-(OD) x 4" FL	663-(OD)0600-000 SST-(OD) x 6" FL			
	SM ROM	SCH 40 STEEL	663-08630400-000 SST-8.63 x 4" FL	663-08630600-000 SST-8.63 x 6" FL			
	SM ROM	DI/CI PVC		663-11100600-000 SST-11.45 x 6" FL			
10"	SM ROM	TR	663-(OD)0400-000 SST-(OD) x 4" FL	663-(OD)0600-000 SST-(OD) x 6" FL	663-(OD)0800-000 SST-(OD) x 8" FL	66(OD)1000-200 SST-(OD) x 10" FL	
	SM ROM	SCH 40 STEEL	663-10750400-000 SST-11.13 x 4" FL			663-10751000-200 SST-11.13 x 10" FL	
	SM ROM	DI/CI PVC				663-13201000-000 SST-13.30 x 10" FL	
12"	SM ROM	TR	663-(OD)0400-000 SST-(OD) x 4" FL	663-(OD)0600-000 SST-(OD) x 6" FL	663-(OD)0800-00004 SST-(OD) x 8" FL	663-(0D)1000-000 SST-(0D) x 10" FL	663-(OD)1200-200 SST-(OD) x 12" FL
	SM ROM	SCH 40 STEEL	663-12750400-000 SST-12.85 x 4" FL			663-12751000-000 SST-12.85 x 10" FL	
14"	ROM	DI		SST-15.2 x 6" FL			

MAXIMUM TEST PRESSURE IS 300 PSI FOR LISTED MANUFACTURERS.

- 2. FLANGES (FL) SHALL BE STAINLESS STEEL ASTM A 240, TYPE 304.
- VENDOR (MANUFACTURER): SM = SMITH-BLAIR, ROM = ROMAC INDUSTRIES
- 4. (OD) = PIPE OUTSIDE DIAMETER. CHECK WITH MANUFACTURER FOR CATALOG NUMBER FOR OTHER SIZES.

5. FOR TAPS ON TRANSITE MAINS OD MUST BE FIELD MEASURED PRIOR TO ORDERING PARTS.

anti-	DATE	
TOHOVE MEADOWS WATER	7/2011	D
TRUCKEE MEADOWS WATER	REV	
0~		

10D-2

DRAWING NUMBER

10F-5

REQUIREMENTS

Know what's **below**. **Call** before you dig.

NNPH PERMITTING

PURPOSES ONLY

TRUCKEE MEADOWS WATER AUTHORITY

APPROVED FOR CONSTRUCTION

WATER FACILITIES ONLY

REFER TO THRUST BLOCK SCHEDULE

ON SHEET WE-5 FOR THRUST BLOCK

10/24/2023

10/25/2023

DATE

DATE

THIS MAP ILLUSTRATES DATA COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT A SURVEY OF THE PREMISES. NO RESPONSIBLILITY IS ASSUMED AS TO THE SUFFICIENCY OR ACCURACY OF THE DATA DISPLAYED HEREON.

WOOD RODGERS IS NOT RESPONSIBLE FOR PUBLIC WATER SYSTEM ANALYSIS, INCLUDING



1361 Corporate Boulevard Reno, NV 89502

Fax 775.823.4066

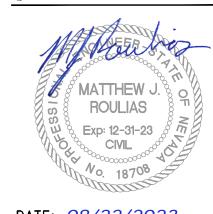




PIPE SIZING & SYSTEM PRESSURES.



WOOD RODGERS



SHEET NUMBER

0

X

S

__4__ OF __7__

GRADE PROPERTY 36" MAX. POC OR FLOW METER DISTANCE BETWEEN ASSEMBLY AND MAIN, PROPERTY LINE OR METER SHALL BE 12" MAX OR AS DETERMINED BY TMWA ASSEMBLY SHALL BE A USC APPROVED DEVICE. NO STOP AND WASTE VALVES. CALL LOCAL BUILDING AND/OR FIRE DEPARTMENTS FOR DEPTH AND TYPE OF PIPE TO BE USED. INSPECTION BY TMWA BACKFLOW PREVENTION GROUP PERSONNEL REQUIRED BEFORE METER IS SET OR SERVICE IS ACTIVATED TESTING OF BACKFLOW ASSEMBLY REQUIRED WITHIN 7 DAYS AFTER METER IS SET OR SERVICE ACTIVATION. COPY OF TEST RESULTS TO BE FORWARDED TO TMWA BACKFLOW PREVENTION GROUP PERSONNEL BY A CERTIFIED ASSEMBLY TESTER WITHIN THAT SAME TIMEFRAME. MINIMUM DIMENSIONS FOR THE THRUST BLOCK BEARING AREA FOR PIPE 2" AND SMALLER SHALL BE 8" X 8" AND 12" IN DEPTH. ALL OTHER SIZES TO BE DETERMINED BY ENGINEER. TMWWA'S BACKFLOW DEPARTMENT MUST APPROVE THE USE OF INTERNAL BACKFLOW ASSEMBLIES.

24" MIN FROM - TEST COCKS OR DETECTOR TO WALL

ASSEMBLY MUST BE

12" MIN. TO

ANY

OBSTRUCTION

FLEXIBLE

SEALANT

AT PIPE

- SEE NOTE 6

__ BEGIN RIGID

PENETRATIONS

APPROVED FOR VERTICAL

CLEARANCES SIDES OTHER INSTALLATIONS

THAN DETECTOR/TEST COCK:

12" FROM WALLS

12" MIN. – 36" MAX.

24" IN FRONT

FROM FLOOR

DRAWING NUMBER APPENDIX 10D DISTRIBUTION TAP INSTALLATION WATER TAPPING SLEEVES 6" Ø VALVE BOX, RISER REFER TO 10J-2 FOR AND COVER MARKED "WATER" - CONCRETE COLLAR REQUIREMENTS TAPPING SLEEVE - PROPERTY LINE SEE NOTE 1 FL x PO ADAPTER

> 1. REFER TO APPENDIX 10D FOR TAPPING SLEEVE DETAILS. 2. REFERENCE NAC 445A, TMWA CONSTRUCTION AND DESIGN STANDARDS AND JURISDICTIONAL FIRE

FIRE SERVICE REFER TO PLAN FOR DIAMETER

FL RESILIENT WEDGE GATE

VALVE WITH 2" OPERATING NUT

PIPE AND FITTINGS PER AWWA C105. 3. REFER TO PLAN FOR DIAMETER AND LENGHT OF SERVICE LATERAL.

7. KEEP A MINIMUM OF 2" CLEARANCE BETWEEN FLANGES/BOLTS AND CONCRETE.

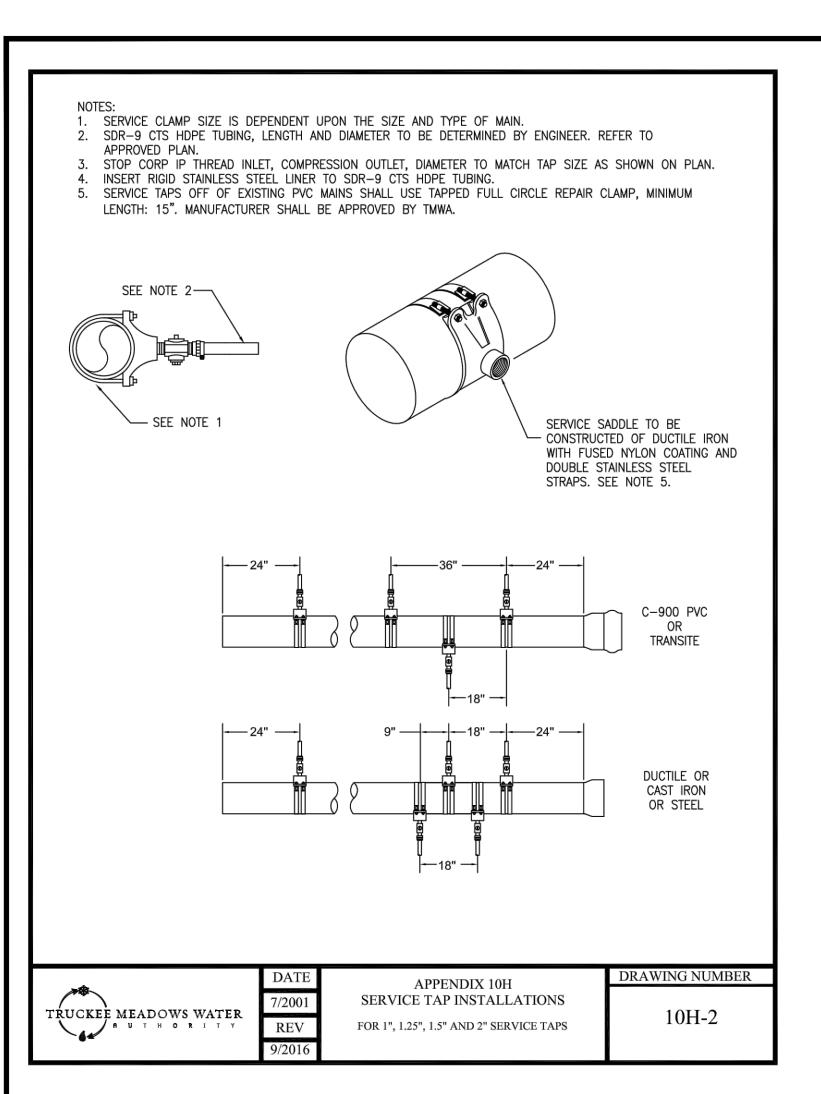
8. ALL EXPOSED METAL MUST BE COATED AND WRAPPED.

9. REFER TO CITY STANDARDS OR APPENDIX 10L FOR THRUST BLOCK REQUIREMENTS. USE THE MOST

AGENCY FOR REQUIRED PIPE MATERIALS. POLYETHYLENE WRAP TO BE USED ON ALL DUCTILE IRON

10. REFER TO APPROVED PLAN AND APPENDIX 10A FOR APPROPRIATE BACKFLOW DEVICE. 11. PRESSURE TEST TAPPING SLEEVE AND VALVE TO MANUFACTURER'S RECOMMENDATION.

TRUCKEE MEADOWS WATER	DATE 7/2001	APPENDIX 10F FIRE PROTECTION INSTALLATION
A U T H O R I T Y	REV	FIRE SERVICE OFF EXISTING MAIN



6"ø SDR 35 PIPE WITH CAST IRON ALVE BOX WITH COVER MARKED

"WATER". LOCATED OUT OF TRAFFIC

CHRISTY N36 BOX

WITH EXTENSION

INSTALLATION.

GRADE

2' MIN.

NOTES

1. REFER TO APPENDIX 10H FOR SERVICE TAP

. TOP OF ENCLOSURE AND VALVE CAP SHALL

AGGREGATE BASE WITHIN BOX TO EXTEND HALF

BRASS NIPPLE/COPPER TUBE. BASE TO EXTEND

BEYOND THE EXTENTS OF THE ENCLOSURE FOR

2. REFER TO 10L-6 FOR TRENCH BEDDING

BE SET 0.2 FEET ABOVE HIGHEST FINISHED

GRADE SURROUNDING ENCLOSURE WITH

WAY UP BODY OF THE ARV AND EXTEND UNDER BOX TO A DEPTH OF 6" BELOW THE

FROM THE ARY TO THE CURB VALVE AND

4. PLACE TYPE 2 CLASS B CRUSHED

AROUND HDPE PORTION OF THIS DETAIL.

BEDDING SAND TO BE USED UNLESS

OTHERWISE CALLED FOR

LANDSCAPE AREAS.

6-INCHES.

1"ø COMPRESSION

× FIP CURB VALVE

NO HAND WHEEL

SLOPE

WATER MAIN WITH 1" SERVICE

APPENDIX 10L

COMBINATION AIR RELEASE VALVE

TAP WITH SADDLE

SECTION B-B

1" SDR 9 CTS HDPE

ELBOW

MIP x COMPRESSION

1" FIP x FIP 90°

1" - MIP x MIP

CORP STOP

DRAWING NUMBER

AREA.

PLACER WATERWORKS.

#AE3618MT FOR

PLAN VIEW

1" SCREW-IN SCREENED VENT. NON-

2" RIGID

INSULATION

CORROSIVE SCREEN SHALL BE

1"ø BRASS OR TYPE K COPPER

22-24 MESH PER INCH.

3/6" HIGH OPENING

ALONG 2 SIDES OF

COMBINATION AIR

VALVE SINGLE BODY

FOR PRESSURES UP

TO 150 PSI. VALVE

1"ø BRASS

NIPPI F

CRUSHED

REDWOOD BOARD OR TYPE K COPPER

- AGGREGATE

BASE COURSE

1"Ø BRASS NIPPLE

REV

TO MEET AWWA C512.

UPRIGHT AT BASE

ID AND RISER TUBE

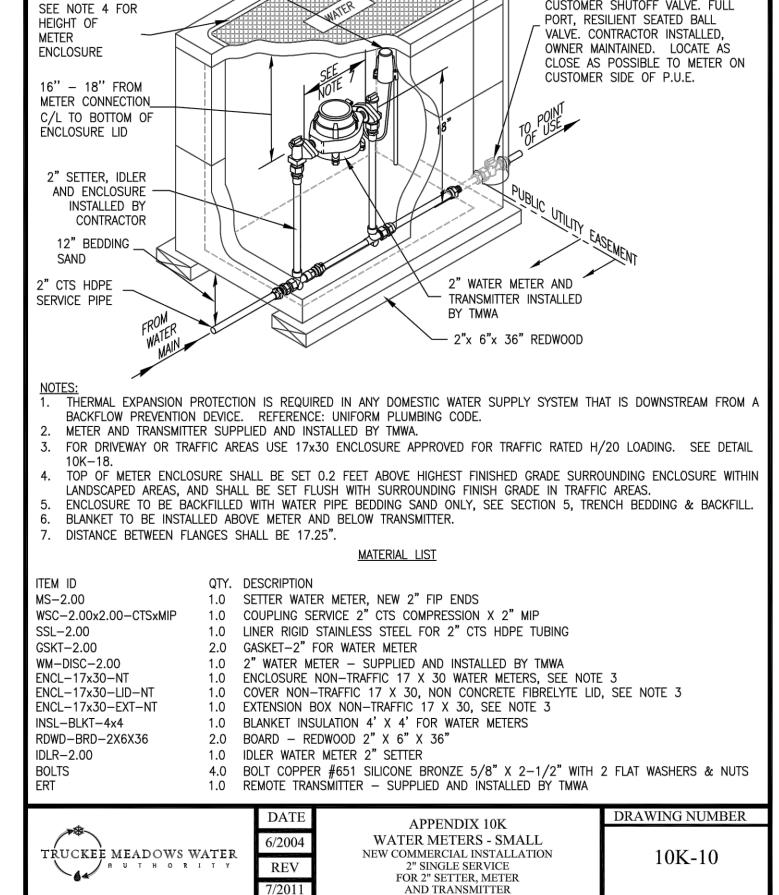
SEE

2 - 2"x6"x40"

SECTION A-A

TRUCKEE MEADOWS WATER

NOTE 4



MINIMUM OF 2"

TOP OF TRANSMITTER

BETWEEN BOTTOM

OF ENCLOSURE AND

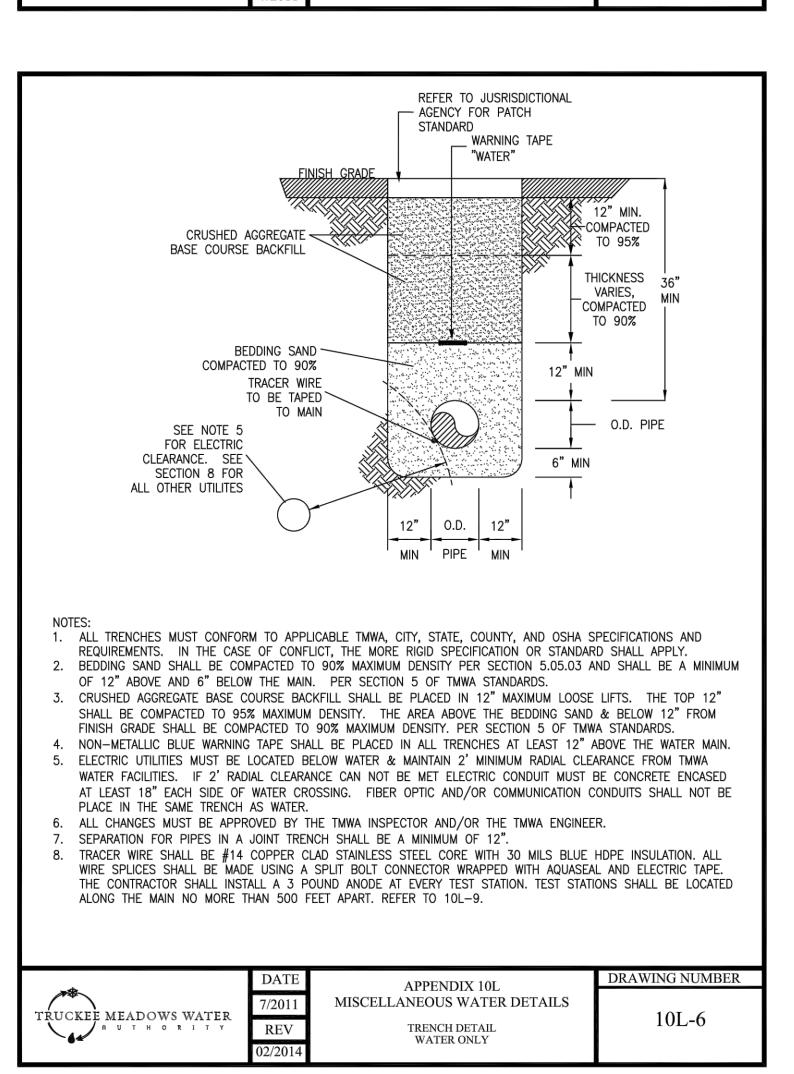
VALVE OPERATING CONDUIT.

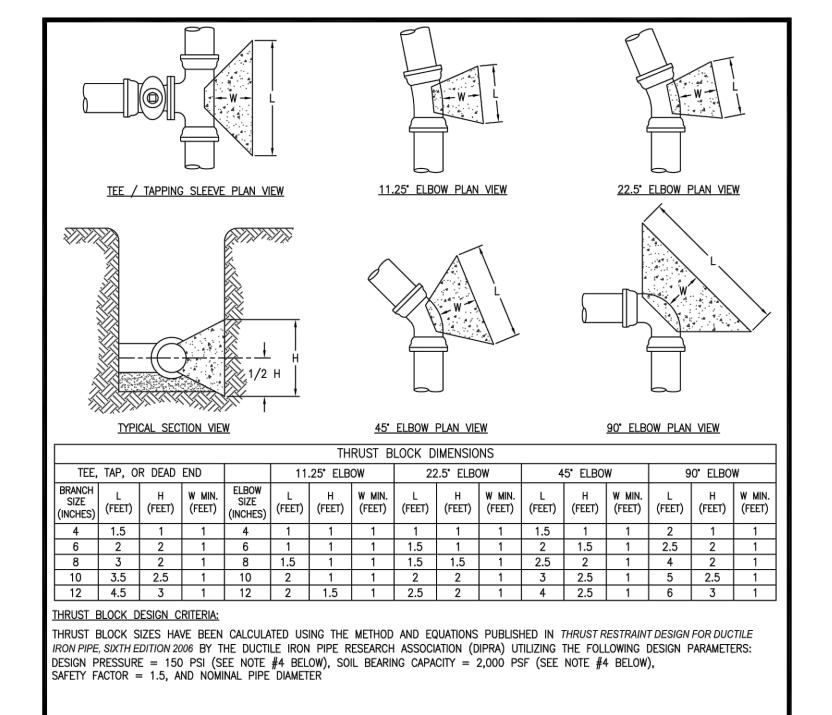
AND MAINTAINED BY

PROPERTY OWNER

RECOMMEND 4" PVC. OWNED

CUSTOMER SHUTOFF VALVE. FULL





- CONCRETE FOR THRUST BLOCKS SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI. REFERENCE SECTION 1.1.13 OF THE TRUCKEE MEADOWS WATER AUTHORITY ENGINEERING & CONSTRUCTION STANDARDS FOR ADDITIONAL REQUIREMENTS. BAG
- CONCRETE MIX IS NOT ACCEPTABLE. ALL FITTINGS SHALL BE WRAPPED WITH POLYETHYLENE WRAP PER AWWA C105. MASTIC (BRUSH-ON) SHALL BE APPLIED TO ALL BOLTS,
- THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL. IN CASES WHERE THIS IS NOT PRACTICAL, BACKFILL AREA BEHIND WHERE THRUST BLOCK WILL BE POURED WITH TYPE 2, CLASS B AGGREGATE BASE (PER SECTION 200.01.03 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - ORANGE BOOK) COMPACTED TO 95% MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT AS DETERMINED BY PROCEDURES SET FORTH IN ASTM D 1557, CUT-BACK COMPACTED AGGREGATE BASE TO EXPOSE A FIRM SURFACE, THEN POUR THRUST BLOCK.
- FOR SOIL BEARING CAPACITY LESS THAN 2,000 PSF AND/OR DESIGN PRESSURE IN EXCESS OF 150 PSI, INCREASE THRUST BLOCK BEARING AREAS ACCORDINGLY. REVISED THRUST BLOCK SCHEDULE FOR SPECIFIC CONDITIONS SHALL BE SUBMITTED BY THE DESIGN ENGINEER.

REFER TO JUSRISDICTIONAL

GAS AND WATER

LOCATOR TAPE

≶ 12" MIN.

COMPACTED

TO 95%

THICKNESS

VARIES,

COMPACTED TO 90%

O.D. WATER

MAIN

MIN

DRAWING NUMBER

10L-7

- AGENCY FOR PATCH

STANDARD

	DATE	APPENDIX 10L	DRAWING
UCKEE MEADOWS WATER	7/2011 REV	THRUST BLOCKS TEES, TAPPING SLEEVES, DEAD ENDS 11.25, 22.5, 45 AND 90 DEGREE ELBOWS 4" TO 12"	10

FINISH GRADE

1. ALL TRENCHES MUST CONFORM TO APPLICABLE TMWA, CITY, STATE, COUNTY, AND OSHA SPECIFICATIONS AND

REQUIREMENTS. IN THE CASE OF CONFLICT, THE MORE RIGID SPECIFICATION OR STANDARD SHALL APPLY.

3. CRUSHED AGGREGATE BASE COURSE BACKFILL SHALL BE PLACED IN 12" MAXIMUM LOOSE LIFTS. THE TOP 12"

FINISH GRADE SHALL BE COMPACTED TO 90% MAXIMUM DENSITY. PER SECTION 5 OF TMWA STANDARDS.

4. METALLIC WATER AND GAS LOCATOR TAPE SHALL BE PLACED IN ALL TRENCHES AT LEAST 12" ABOVE THE GAS.

5. ELECTRIC UTILITIES MUST BE LOCATED BELOW WATER & MAINTAIN 2' MINIMUM RADIAL CLEARANCE FROM TMWA

OF 12" ABOVE AND 6" BELOW THE MAIN. PER SECTION 5 OF TMWA STANDARDS

ALL CHANGES MUST BE APPROVED BY THE TMWA INSPECTOR AND/OR THE TMWA ENGINEER.

7. SEPARATION FOR PIPES IN A JOINT TRENCH SHALL BE A MINIMUM OF 12".

REV

2. BEDDING SAND SHALL BE COMPACTED TO 90% MAXIMUM DENSITY PER SECTION 5.05.03 AND SHALL BE A MINIMUM

SHALL BE COMPACTED TO 95% MAXIMUM DENSITY. THE AREA ABOVE THE BEDDING SAND & BELOW 12" FROM

WATER FACILITIES. IF 2' RADIAL CLEARANCE CAN NOT BE MET ELECTRIC CONDUIT MUST BE CONCRETE ENCASED

AT LEAST 18" EACH SIDE OF WATER CROSSING. FIBER OPTIC AND/OR COMMUNICATION CONDUITS SHALL NOT BE

APPENDIX 10L

MISCELLANEOUS WATER DETAILS

TRENCH DETAIL

GAS AND WATER

CRUSHED AGGREGATE

BASE COURSE BACKFILL

BEDDING SAND ~

COMPACTED TO 90%

SEE NOTE 5

FOR ELECTRIC

CLEARANCE. SEE >

ALL OTHER UTILITES

SECTION 8 FOR

PLACED IN THE SAME TRENCH AS WATER.

TŘUCKEĽ MEADOWS WATER

REQUIREMENTS

3 NUMBER

Know what's **below**.

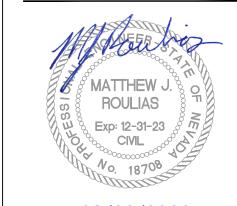
Call before you dig.

THIS MAP ILLUSTRATES DATA COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT A SURVEY OF THE PREMISES. NO RESPONSIBLILITY IS ASSUMED AS TO THE SUFFICIENCY OR ACCURACY OF THE DATA DISPLAYED HEREON

WOOD RODGERS IS NOT RESPONSIBLE FOR PUBLIC WATER SYSTEM ANALYSIS, INCLUDING PIPE SIZING & SYSTEM PRESSURES.



WOOD RODGERS



DATE: *08/22/2023*



TRUCKEE MEADOWS WATER AUTHORITY APPROVED FOR CONSTRUCTION WATER FACILITIES ONLY

Kacie Malor	10/24/2023
ENGINEERING amie Marche	DATE 10/25/2023
BACKFLOW	DATE

REFER TO THRUST BLOCK SCHEDULE ON SHEET WE-5 FOR THRUST BLOCK





1361 Corporate Boulevard Reno, NV 89502

Tel 775.823.4068 Fax 775.823.4066

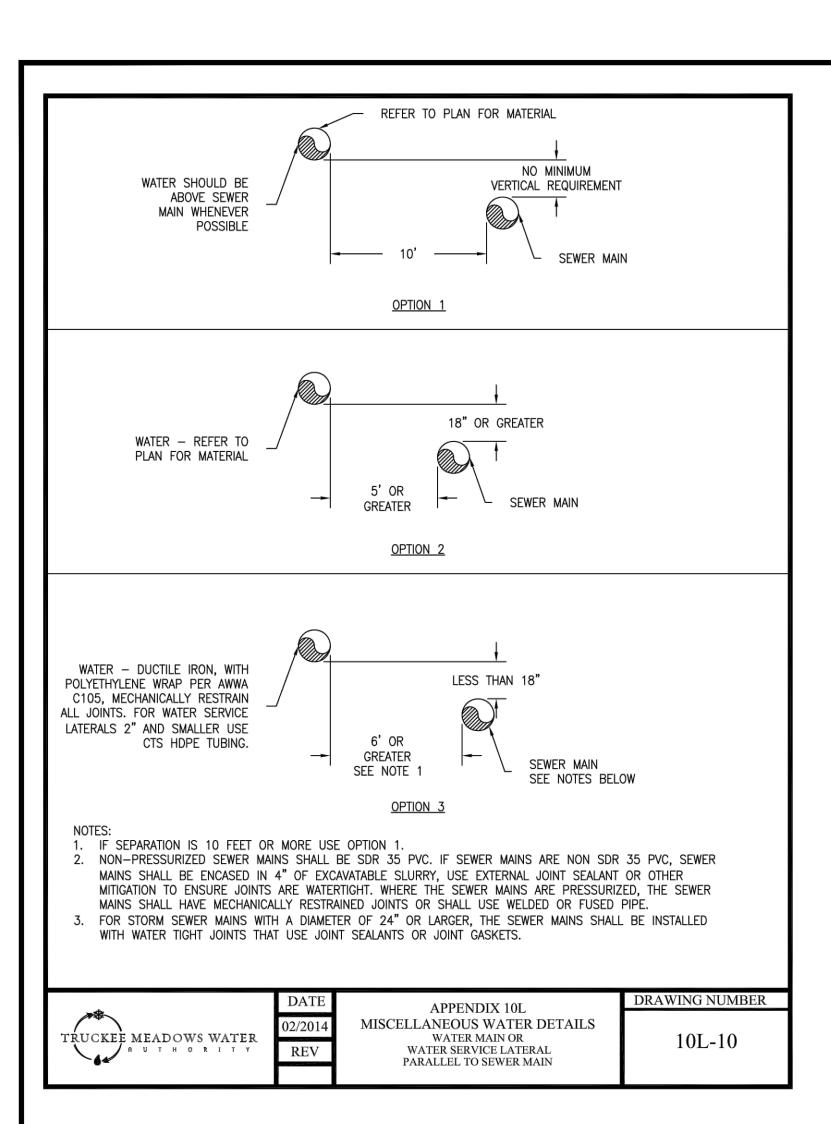


0

S

SHEET NUMBER **WE-5**

__5__ OF __7__



WATER SERVICE LATERAL REFER TO PLAN FOR MATERIAL

WATER SERVICE LATERALS: 2" AND SMALLER USE

WATER SERVICE LATERALS: 2" AND SMALLER USE

LARGER USE 1 FULL SECTION OF DUCTILE IRON.

MAIN AND THE WATER METER.

TRUCKEE MEADOWS WATER

NOTES:

CTS HDPE TUBING, SEE NOTE 5, FOR 4" AND _

OPTION 1 SHOULD BE UTILIZED WHEN POSSIBLE.

CTS HDPE TUBING, SEE NOTE 5, FOR 4" AND __/ LARGER USE 1 FULL SECTION OF DUCTILE IRON.

SEWER MAIN

MECHANICALLY RESTRAIN ALL WATER

SERVICE LATERAL JOINTS WITHIN

10' OF CROSSING OR CTS HDPE

TUBING FOR WATER SERVICE LATERALS

2" AND SMALLER

SEWER MAIN

MECHANICALLY RESTRAIN ALL WATER

SERVICE LATERAL JOINTS WITHIN

TUBING FOR WATER SERVICE LATERALS 2" AND SMALLER

SEWER MAIN

MECHANICALLY RESTRAINED JOINTS OR SHALL USE WELDED OR FUSED PIPE.

REV

10' OF CROSSING OR CTS HDPE

OPTION 1

OPTION 2

NON-PRESSURIZED SEWER MAINS SHALL BE SDR 35 PVC. IF SEWER MAINS ARE NON SDR 35 PVC, SEWER MAINS SHALL BE ENCASED IN 4" OF EXCAVATABLE SLURRY, USE EXTERNAL JOINT SEALANT OR OTHER MITIGATION TO ENSURE JOINTS ARE WATERTIGHT. WHERE THE SEWER MAINS ARE PRESSURIZED, THE SEWER MAINS SHALL HAVE

ALL MECHANICALLY RESTRAINED WATER PIPES SHALL BE DUCTILE IRON WITH POLYETHYLENE WRAP PER AWWA C105. FOR WATER SERIVICE LATERALS 2" AND SMALLER THERE SHALL BE NO JOINTS OR FITTINGS BETWEEN THE WATER

APPENDIX 10L

MISCELLANEOUS WATER DETAILS

WATER SERVICE LATERAL

CROSSING SEWER MAIN

MECHANICALLY RESTRAIN ALL WATER

SERVICE LATERAL JOINTS WITHIN

10' OF CROSSING OR CTS HDPE

TUBING FOR WATER SERVICE LATERALS

2" AND SMALLER

LESS THAN 18'

MIN. 6"

MECHANICALLY RESTRAIN ALL WATER

SERVICE LATERAL JOINTS WITHIN

TUBING FOR WATER SERVICE LATERALS

2" AND SMALLER

10' OF CROSSING OR CTS HDPE

MECHANICALLY

AND LARGER

MECHANICALLY

RESTRAIN JOINT

1 FULL SECTION OF

DRAWING NUMBER

10L-13

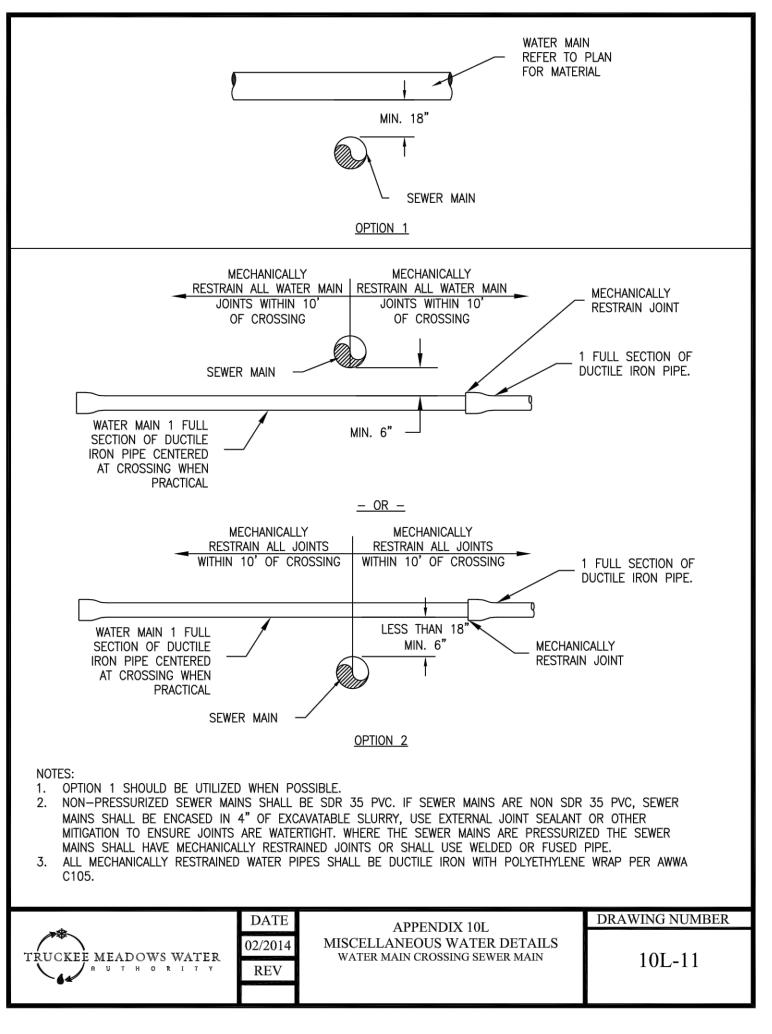
DUCTILE IRON PIPE.

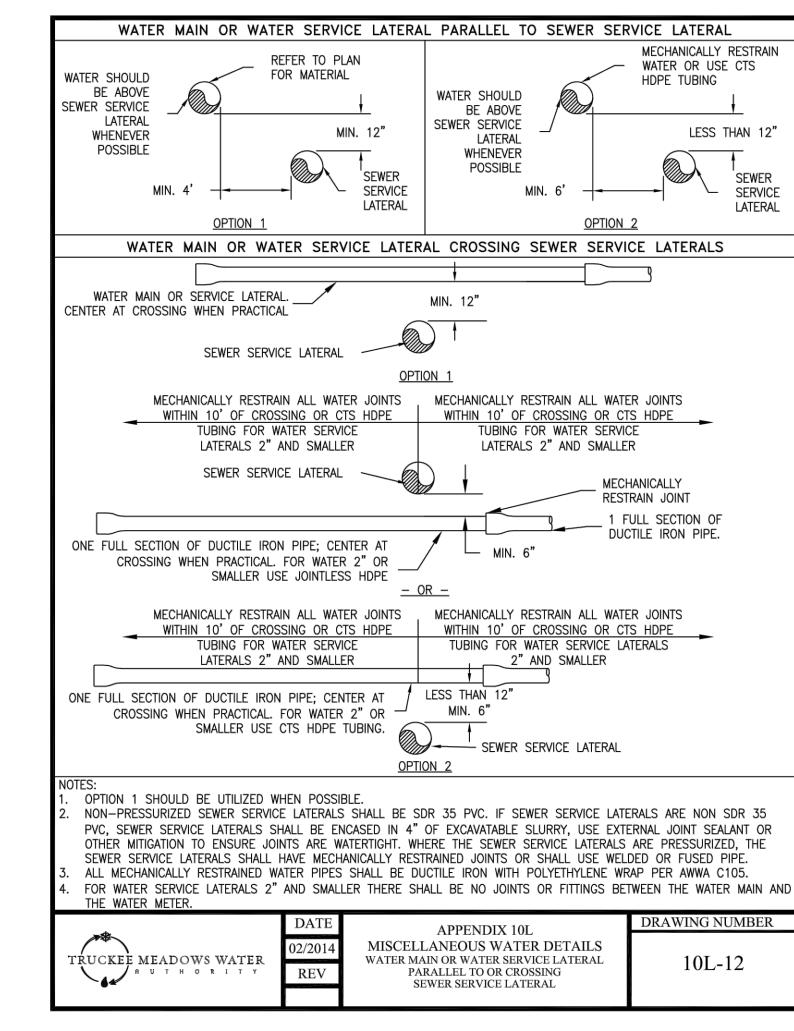
RESTRAIN JOINTS

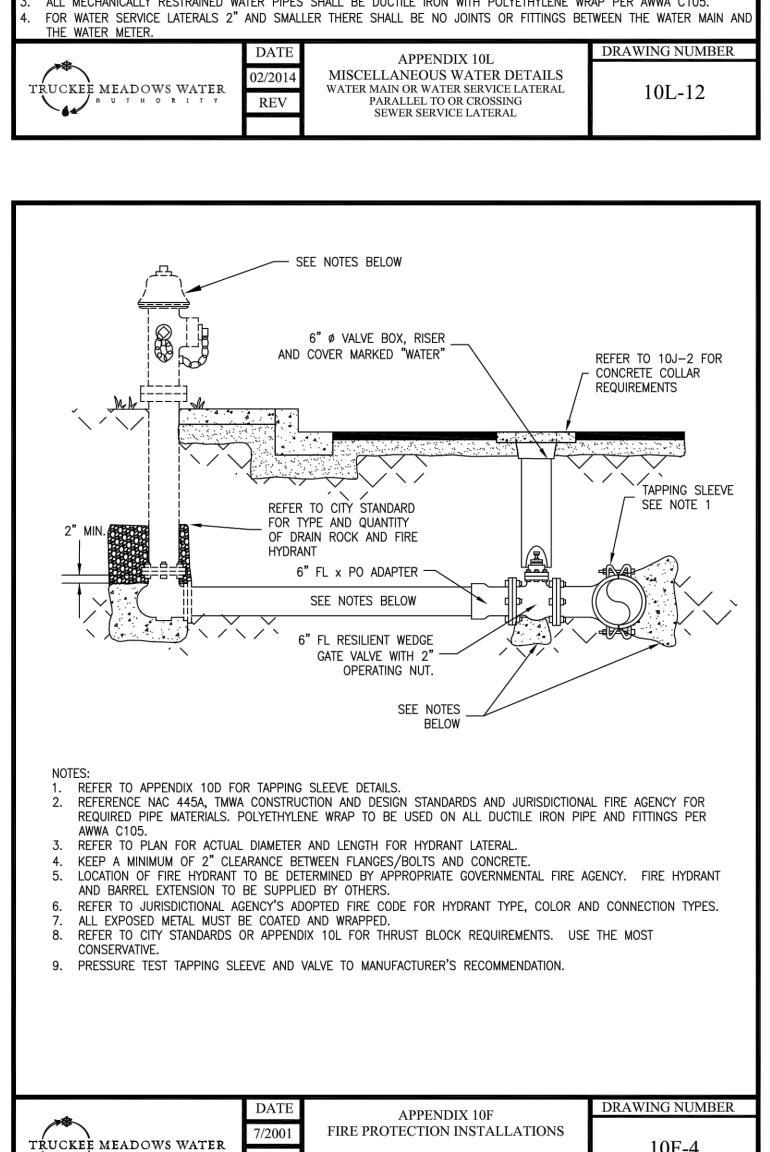
4" AND LARGER

1 FULL SECTION OF

DUCTILE IRON PIPE 4"









TRUCKEE MEADOWS WATER AUTHORITY APPROVED FOR CONSTRUCTION WATER FACILITIES ONLY 10/24/2023 DATE 10/25/2023

BACKFLOW

REFER TO THRUST BLOCK SCHEDULE ON SHEET WE-5 FOR THRUST BLOCK REQUIREMENTS

DATE



THIS MAP ILLUSTRATES DATA COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT A SURVEY OF THE PREMISES. NO RESPONSIBLILITY IS ASSUMED AS TO THE SUFFICIENCY OR ACCURACY OF THE DATA DISPLAYED HEREON.

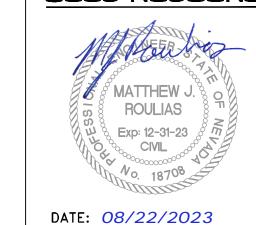
WOOD RODGERS IS NOT RESPONSIBLE FOR PUBLIC WATER SYSTEM ANALYSIS, INCLUDING PIPE SIZING & SYSTEM PRESSURES.



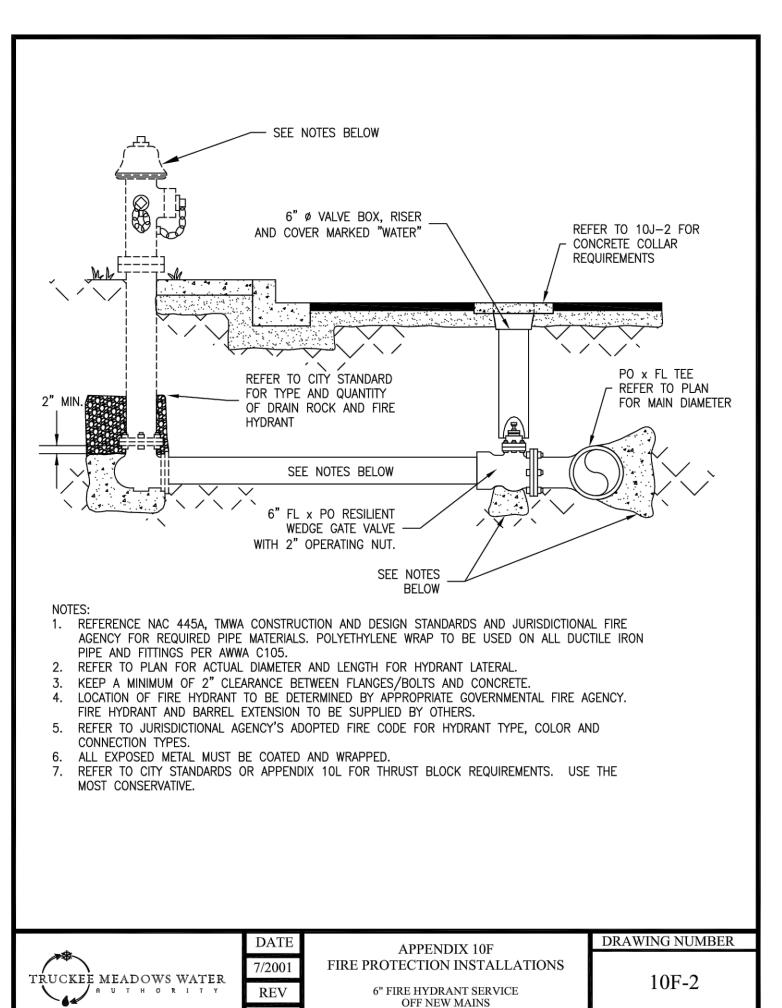
1361 Corporate Boulevard Tel 775.823.4068 Reno, NV 89502

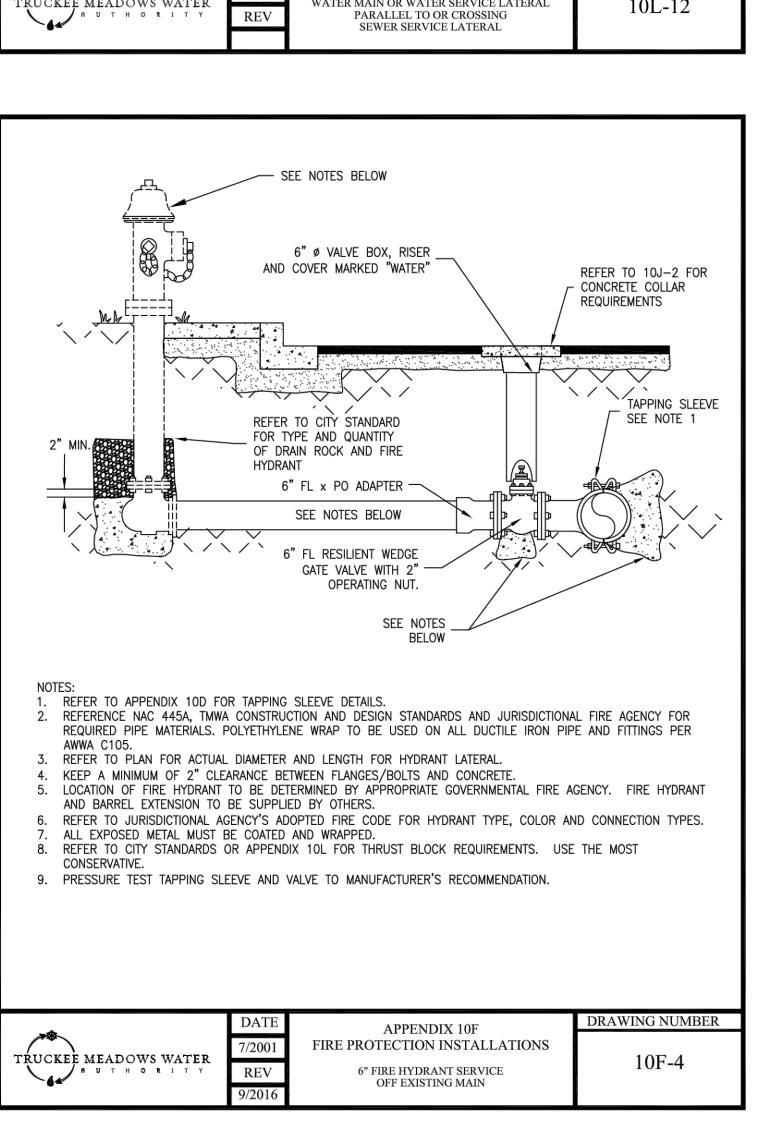
Fax 775.823.4066

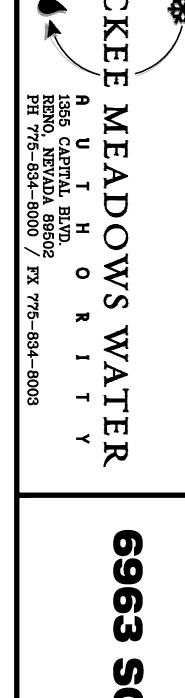
WOOD RODGERS



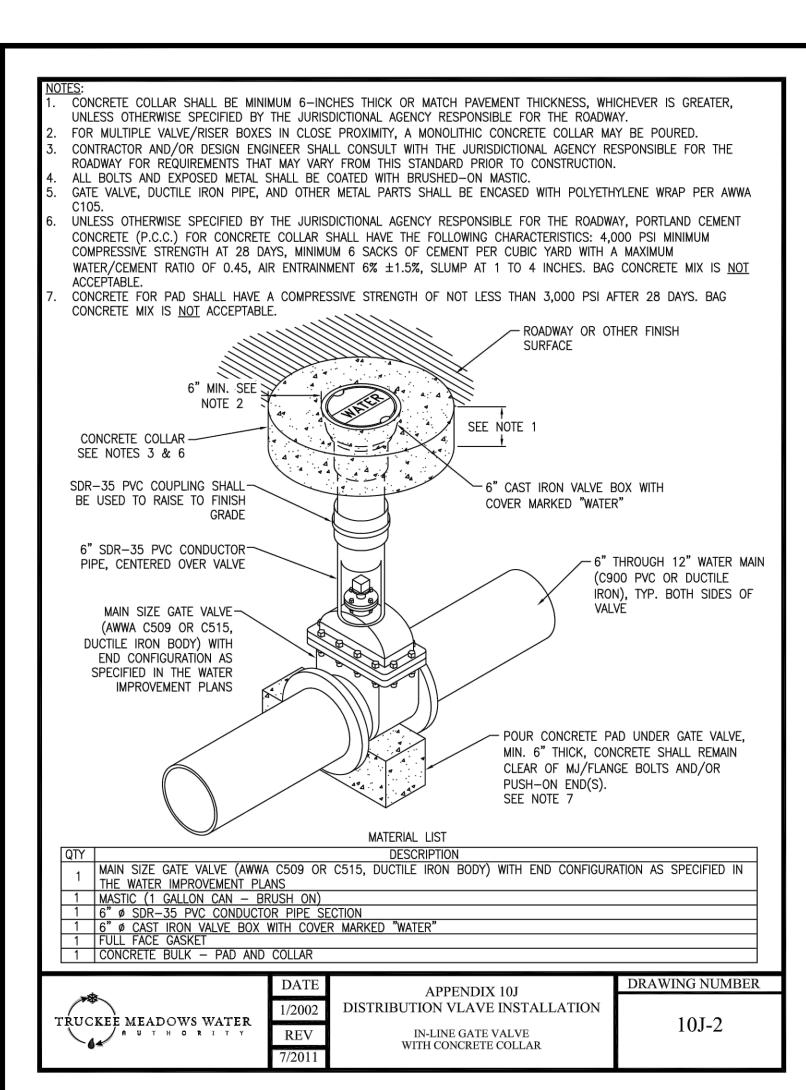
<u>6</u> OF <u>7</u>







SHEET NUMBER **WE-6**

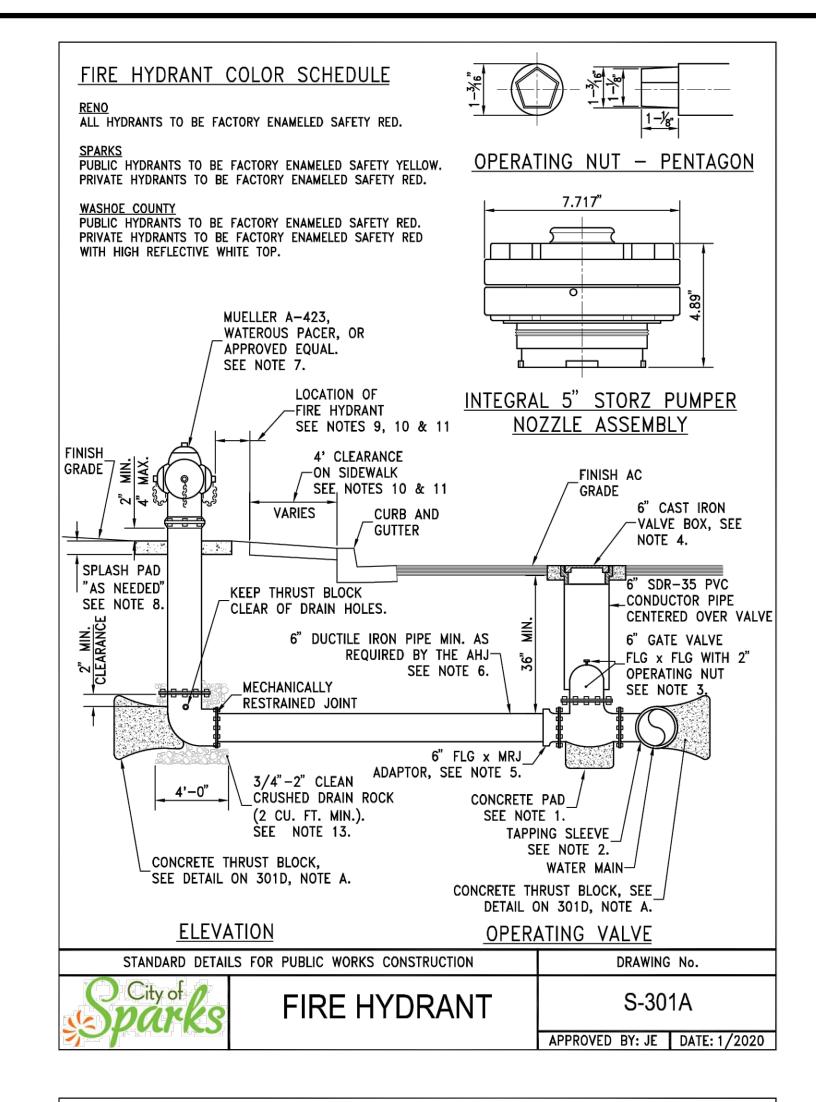


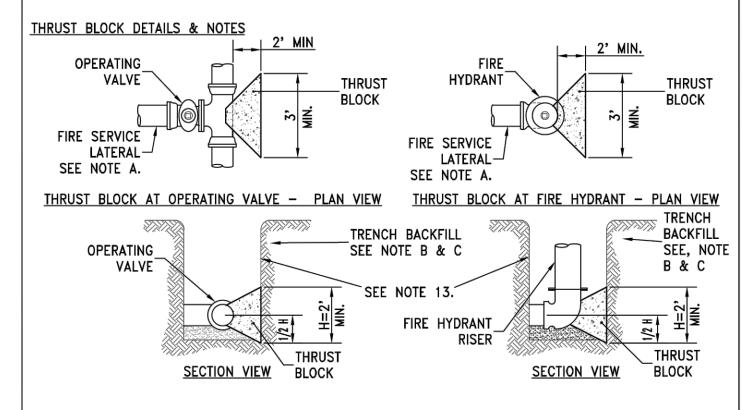
NOTES CONT:

- MUELLER A-423 OR AMERICAN WATEROUS PACER WB67-250 WITH 5-1/4" VALVE OPENING OR FIRE DEPARTMENT APPROVED EQUAL. RISER SHALL BE 4 FT OR 5 FT AND RISER TYPE SHALL BE SAME AS THE FIRE HYDRANT MANUFACTURER. HYDRANTS MUST BE FACTORY PAINTED TO BE ACCEPTED. ALL HYDRANTS SHALL HAVE TWO 2-1/2" HOSE NOZZLES AND ONE FACTORY INSTALLED INTEGRAL 5" STORZ PUMPER NOZZLE ASSEMBLY.
- IF PROPOSED HYDRANT LOCATION IS WITHIN PARKWAY OR LANDSCAPE WHERE NO CONCRETE EXISTS. PLACE 36" DIAMETER ROUND OR 36" x 36" SQUARE, 4" THICK REINFORCED CONCRETE SPLASH PAD AS REQUIRED BY THE AHJ. NO FENCES, LANDSCAPE FEATURES, OR OTHER OBSTRUCTIONS SHALL BE ALLOWED WITHIN 3-FEET OF ANY PORTION OF A FIRE HYDRANT. CLEARANCE IS MEASURED FROM ALL OBSTRUCTIONS TO THE NEAREST POINT ON THE FIRE HYDRANT. ANTICIPATED PLANT GROWTH TO BE CONSIDERED IN DESIGN AND INSTALLATION.
- FIRE HYDRANTS SHALL BE INSPECTED BY AHJ INSPECTOR. INSPECTIONS SHALL BE SCHEDULED A MINIMUM OF TWO BUSINESS DAYS PRIOR AND INSPECTIONS SHALL BE PERFORMED DURING REGULAR BUSINESS HOURS. CONTACT AHJ FIRE PREVENTION BUREAU TO SCHEDULE INSPECTIONS.
- 10. FIRE HYDRANTS SHALL BE PLACED WITHIN THE RIGHT-OF-WAY OR EASEMENT GRANTED OUTSIDE THE RIGHT-OF-WAY. FIRE HYDRANT PLACED WITHIN PEDESTRIAN WALKWAY AND/OR SIDEWALKS SHALL PROVIDE FOR A MINIMUM OF 4 FT CLEARANCE IN ACCORDANCE WITH PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG).
- AHJ APPROVAL IS REQUIRED FOR HYDRANT LOCATION WHERE NO SIDEWALK EXISTS BEHIND CURB OR WHERE A LANDSCAPE STRIP IS BETWEEN THE CURB AND THE SIDEWALK.
- 12. FIRE HYDRANTS SHALL BE TESTED BY THE AHJ PRIOR TO COMBUSTIBLES BEING BROUGHT ON SITE.
- 13. FOR TRENCH EXCAVATION/BACKFILL SPECIFICATIONS SEE DETAIL BELOW. ALL DRAIN ROCK SHALL BE PLACED PRIOR TO INSPECTION AND BACKFILL.

TRENCH		
EXCAVATION/BACKFILL		
AHJ	DETAIL #	
RENO	R-122	
SPARKS	S-117	
WASHOE COUNTY	W-22	

STANDARD DETAIL	S FOR PUBLIC V	WORKS	CONSTRUCTION	DRAWING	No.
(City of)	NOTES -		S-301C		
	EID	$\vdash \sqcup$	YDRANT		
	1 117	<u> </u>	IDIVANI	APPROVED BY: JE	DATE: 1/2020





THRUST BLOCK NOTES

- A. THRUST BLOCK SIZE ASSUMES MAXIMUM 6" DIAMETER FIRE HYDRANT SERVICE. THRUST BLOCKS FOR LARGER SERVICES REQUIRE APPROVAL OF AHJ.
- B. THE THRUST BLOCK DESIGN SHALL BE BASED ON THE FORCE RESISTING CAPACITY OF THE NATIVE SOILS AS STATED IN THE SOILS EVALUATION REPORT SPECIFIC TO THE PROJECT SITE. THE CALCULATIONS SHOWN WITH THE TRUST BLOCK DESIGN AND SIZING TABLE SHALL BE BASED ON THE REQUIREMENTS OF THE MOST CURRENT NFPA 24, ARTICLE 10.8.2 REQUIREMENTS. THE SOIL EVALUATION REPORT OR A SINGLE PAGE, STAMPED SUMMARY SHALL BE SUBMITTED WITH THE PROJECT PLANS.
- C. THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED SOIL. IN CASES WHERE THIS IS NOT PRACTICAL, BACKFILL AREA BEHIND WHERE THRUST BLOCK WILL BE PLACED WITH AGGREGATE BASE COMPACTED TO 95% RELATIVE COMPACTION, CUT-BACK COMPACTED AGGREGATE BASE TO EXPOSE A FIRM SURFACE, THEN PLACE THRUST BLOCK.

STANDARD DETAI	LS FOR PUBLIC WORKS CONSTRUCTION	DRAWING	No.
(D) City of	NOTES -	S-301D	
	FIRE HYDRANT	APPROVED BY: JE	DATE: 1/2020

- PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% $\pm 1.5\%$, SLUMP AT 1 TO 4 INCHES. MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC), AS ADOPTED BY AUTHORITY HAVING JURISDICTION (AHJ). CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE A COARSE AGGREGATE GRADATION CONFORMING TO SIZE No. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC, AS ADOPTED BY AHJ.
- HOT-TAP TAPPING SLEEVES SHALL BE FULL-CIRCLE ASTM A 240, TYPE 304 STAINLESS STEEL WITH FULL CIRCUMFERENCE GASKETS THROUGHOUT SLEEVE LENGTH WITH AWWA C207 CLASS D ANSI 150 LB. DRILLING ASTM A 240, TYPE 304 STAINLESS STEEL FLANGE. TYPE 304 STAINLESS STEEL STUD BOLTS, HEAVY HEX NUTS, AND WASHERS SHALL BE INCLUDED. HEAVY HEX NUTS AND STUD BOLTS SHALL BE COATED TO PREVENT GALLING. TYPE 304 STAINLESS STEEL TEST PLUG SHALL BE INCLUDED WITH THREADS COATED TO PREVENT GALLING. TAPPING SLEEVE SHALL BE RATED FOR A TEST PRESSURE OF 300 PSI AND WORKING PRESSURE OF 200 PSI. TAPPING SLEEVE SHALL BE ROMAC STYLE "SST" STAINLESS STEEL TAPPING SLEEVE AS MANUFACTURED BY ROMAC INDUSTRIES, INC.; SMITH-BLAIR 663 STAINLESS STEEL FLANGE TAPPING SLEEVE AS MANUFACTURED BY SMITH-BLAIR, INC.; OR EQUAL.

ALL WATER MAIN SHUT DOWNS AND/OR INSTALLATION OF TAPPING SLEEVES SHALL BE COORDINATED WITH THE WATER PURVEYOR IN THE AREA AND CONFORM TO THEIR REQUIREMENTS. TAPPING SLEEVES ARE TO BE USED ONLY FOR EXISTING INSTALLATIONS.

- GATE VALVE SHALL BE 6-INCH, FLG X FLG AND SHALL MEET AWWA C515, DUCTILE IRON BODY, NON-RISING STEM. RESILIENT-SEATED VALVE. GATE VALVE SHALL BE EQUIPPED WITH A 2-INCH OPERATING NUT FOR BURIED SERVICE. GATE VALVE SHALL BE FUSION EPOXY LINED AND COATED. ALL VALVES FOR BURIED SERVICE SHALL BE POLYETHYLENE ENCASED PER AWWA C105. GATE VALVE SHALL BE A MUELLER A-2361 RESILIENT WEDGE GATE VALVE; AMERICAN AVK COMPANY SERIES 65 AWWA C515 DUCTILE IRON GATE VALVE; OR APPROVED EQUAL.
- 6" VALVE BOX SHALL BE D&L #8044 & #8056 OR APPROVED EQUAL. CASTINGS SHALL BE CAST IRON GRAY AND MEET THE REQUIREMENTS OF ASTM A48-74, CLASS 30B, NO PAINT.

6-INCH FLG X MRJ ADAPTOR

6-INCH FLG X MRJ ADAPTOR SHALL BE DUCTILE IRON AND MEET THE REQUIREMENTS OF AWWA STANDARDS C110/C153 AND C104. ALL FITTINGS SHALL BE POLYETHYLENE ENCASED PER AWWA C105. ADAPTOR SHALL BE ASPHALTIC COATED WITH CEMENT-MORTAR LINING PER AWWA C110/C153 AND C104.

6-INCH MINIMUM DUCTILE IRON LATERAL PIPE

ALL DUCTILE IRON PIPE SHALL MEET THE REQUIREMENTS OF AWWA STANDARDS C151, C104, AND C111 WITH PRESSURE CLASS 350, STANDARD CEMENT LINING, BITUMINOUS COATING, AND SHALL BE NSF-61 CERTIFIED. ALL DUCTILE IRON PIPE SHALL BE POLYETHYLENE ENCASED WITH THICKNESS OF 4 MIL AND BE BLACK IN COLOR. MATERIAL SHALL BE HIGH-DENSITY, CROSS-LAMINATED FILM CONFORMING TO SECTION 4.1.3 OF AWWA STANDARD C105. TUBE SIZE SHALL BE AS LISTED IN TABLE 1 OF SAME STANDARD, DUCTILE IRON PIPE SHALL BE EQUIPPED WITH TYTON TYPE BELL AND SPIGOT JOINTS. DUCTILE IRON PIPE SHALL BE TYTON DUCTILE IRON PIPE AS MANUFACTURED BY U.S. PIPE, GRIFFIN TYTON JOINT DUCTILE IRON PIPE AS MANUFACTURED BY GRIFFIN PIPE PRODUCTS CO., INC., OR APPROVED EQUAL. EXCEPTIONS FOR PRIVATE INSTALLATION UPON APPROVAL FROM AHJ.

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION DRAWING No.

S-301B APPROVED BY: JE DATE: 1/2020

NNPH PERMITTING **PURPOSES ONLY**

TRUCKEE MEADOWS WATER AUTHORITY APPROVED FOR CONSTRUCTION WATER FACILITIES ONLY

Latio Malor	10/24/2023
ENGINEERING Jamie Marche	date 10/25/202
BACKFLOW	DATE

REFER TO THRUST BLOCK SCHEDULE ON SHEET WE-5 FOR THRUST BLOCK REQUIREMENTS



THIS MAP ILLUSTRATES DATA COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT A SURVEY OF THE PREMISES. NO RESPONSIBILITY IS ASSUMED AS TO THE SUFFICIENCY OR ACCURACY OF THE DATA DISPLAYED HEREON.

WOOD RODGERS IS NOT RESPONSIBLE FOR PUBLIC WATER SYSTEM ANALYSIS, INCLUDING PIPE SIZING & SYSTEM PRESSURES.



1361 Corporate Boulevard Reno, NV 89502

Tel 775.823.4068 Fax 775.823.4066

WOOD RODGERS



_______ OF _______ DATE: *08/22/2023*

X D S

0

SHEET NUMBER **WE-7**