

# Addendum No. 1 COS 2017 UNIT 3 WATER MAIN REPLACEMENT PROJECT

PWP Bid No. WA-2017-126 March 15, 2017

The following information, clarifications, changes and modifications are by reference incorporated into the bid documents for the above referenced project. Any work item or contract provision not changed or modified will remain in full force and effect. The bid date and time and construction schedule remain the same.

## **CLARIFICATION**

- The City of Sparks has a paving project following this waterline project and this project is broken down in to two phases as follows:
  - Phase 1 Cauble, 18th Street north and south, and Nash: to be completed by May 8th.
  - Phase 2 F and D Street: to be completed by June 12.
- Please note this project includes working with and removal of Asbestos Concrete Pipe (Transite). See TMWA's General Conditions, water general notes on sheet G2, and technical specifications.

## BIDDING CONTRACT TECHNICAL SPECIFICATION

- ADD SPECIFICATION SECTION 01661 REGULATORY REQUIREMENTS TO THE TABLE OF CONTENTS.
- $\bullet$  REPLACE BID SCHEDULE PAGES 3-5 WITH THE 3 PAGES ATTACHED:
  - The description of bid item 1.9 has been modified. Quantity of Bid Item 1.4 changed from 38 to 39 and Bid Item 1.5 from 10 to 9.
- ADD SPECIFICAITON SECTION 01661 REGULATORY REQUIREMENTS ATTACHED.
- MODIFICATIONS TO SECTION 01025 MEASUREMENT AND PAYMENT:
- 1. Remove and replace the first paragraph of subsection 1.3 with:

The bid price for this item shall include all labor, equipment and materials required to provide and install 6-inch CL 350 restrained joint (RJ) ductile iron pipe water main as indicated on the Plans. It also includes a minimal amount of 4" and 8" RJ DIP for connections to existing mains. Payment will be made at the unit price per linear foot, including pipe, tracer wire, dewatering, excavation, bedding, backfill, compaction, saw cutting, removal of old asphalt, water testing and disinfection, as well as temporary asphalt patching and stripping repairs as required by the City of Sparks and depicted in the contract drawings. No payment will be made for fittings, valves, blind flanges, tapping sleeves, flexible couplings,

mechanical joint retainers, reducers, flanged coupling adapters, or flange adapters, which shall be incidental to other items.

## 2. Remove subsection 1.9 in its entirety and replace with the following:

1.9 FURNISH AND PLACE PERMANENT ASPHALT CONCRETE (AC) PAVEMENT PATCH, PERMANENT CONCRETE PATCH, AND 2" GRIND AND OVERLAY

The bid price for this item shall include all labor, materials, and equipment required to permanently AC Pavement patch, concrete patch, and 2" grind and overlay those areas indicated on the drawings. The Contractor shall trench patch pave, concrete patch, and/or 2" grind and overlay those areas as indicated on the drawings. The AC patch shall be per the typical permanent patch detail. The concrete patch shall be per the typical details called out and material per the latest edition of the Orange Book. The overlay patch shall be the same AC mix as the permanent patch. This item shall also include removing existing AC to centerline of Nash alley, Condition and compact existing base, and pave as detailed in the drawings. Extents of permanent patch, concrete patch, and 2" grind and overlay areas shown on the drawings are a guide to indicate those areas of non-temporary paving and the contractor shall provide their own quantity take-off. This take off shall include but not limited to trench widths, excavations, requirements for abandonment items and removal of pipe, etc. This bid item shall also include but not limited to, saw cutting, removal of existing asphalt, and thermoplastic/paint striping repair for Victorian Ave as shown.

No measurement will be made for this item. Payment will be made at the lump sum price as indicated on the Bid Schedule:

## BIDDING CONTRACT DRAWING

• REPLACE DRAWING SHEET G3 WITH THE ATTACHED -

Added 2" grind and overlay hatch. Added Remove and Replace AC hatch and added material specification for disinfection tablets.

REPLACE DRAWING SHEET P3 WITH THE ATTACHED –

Added 2" grind and overlay hatch to the centerline of A-street and to the nearest lane line on Victorian Ave. Stripping repairs on Victorian Ave have been shown and called out. Change callout for alley patch from C400/D17 to C116/D16.

REPLACE DRAWING SHEET P4 WITH THE ATTACHED –

Added 2" grind and overlay hatch to the centerline of 16th street. Remove existing AC to centerline of Nash Alley; condition and compact existing base to 95% Maximum Dry Density, and pave 3" min or equal section to existing AC, whichever is greater. Move limits of future paving project line and extended permanent pavement patch in to the intersection of Nash and the Nash Alley. Changed the existing material callout for water service #15 from plastic to copper. Due to the material change the service no longer needs full replacement to the meter.

REPLACE DRAWING SHEET D<sub>17</sub> WITH THE ATTACHED

Removed and Replaced C400/D17 with a standard driveway detail for Nash Alley and 16th street.

## **SECTION 01661**

## **REGULATORY REQUIREMENTS**

## PART 1 GENERAL

## 1.1 DESCRIPTION

This Section includes requirements for complying with the National Sanitation Foundation/American National Standards Institute (NSF/ANSI) 61 regulations as set forth by NSF International and as required by federal, state and local governing agencies.

The NSF/ANSI 61 certification process includes specific product testing by NSF International or approved independent third party testing laboratories. The tests include gathering chemical composition of products and submergence of products to determine leaching of harmful constituents into drinking water.

Simple compliance with the requirements of NSF/ANSI 61 is not acceptable, nor does that equate to formal NSF/ANSI 61 Certification. The State of Nevada and Washoe County review all water improvements for compliance with NSF/ANSI 61 and have the authority to enforce these requirements including assessment of fines for non-compliance.

## 1.2 REFERENCES

A. NSF International web site: <a href="http://www.nsf.org/services/by-industry/water-wastewater/municipal-water-treatment/nsf-ansi-standard-61">http://www.nsf.org/services/by-industry/water-wastewater/municipal-water-treatment/nsf-ansi-standard-61</a>

## 1.3 SUBMITTALS

- A. In accordance with Section 01300.
- B. **All** materials, linings, coatings, lubricants, adhesives, treatment media, and equipment that are in physical contact with potable water must be NSF61 certified. The NSF61 certification mark(s) must be present on all submittals as required. No exception will be granted.
- C. Certification letters shall be submitted for all items in physical contact with potable water. No exception will be granted.

## PART 2 PRODUCTS

Not Used.

## PART 3 EXECUTION

Not Used.

## **END OF SECTION 01661**

## BID SCHEDULES (Cont)

## **BID SCHEDULES**

PWP #: PWP-WA-2017-126

BID TITLE: City of Sparks 2017 Unit 3 Water Main Replacement Project

NOTICE:

No substitution or revision to this Bid Schedule form will be accepted. Truckee Meadows Water Authority will reject any Bid that is received that has changes or alterations to this document. Although the Prevailing Wages are provided in this bid document, the bidder is responsible to verify with the Labor Commissioner if any addendums have been issued. If different, the successful bidder will be required to provide the current Prevailing Wages used in preparation of their bid within 24 hours of bid submission.

**PRICES** must be valid for 30 calendar days after the bid opening.

<u>A COPY OF THE "CERTIFICATE"</u> of eligibility to receive a preference in bidding on public works issued to him/her by the State Contractors' Board and (if claiming Locals Preference) the Local's Preference Affidavit (provided above) must be submitted with his/her bid to the Contracts Division for the preference to be considered. These Statutes do not apply to projects expected to cost less than \$250,000.

COMPLETION of this project is expected PURSUANT TO CONTRACT DOCUMENTS.

<b>DIDDLY</b> acknowledges receipt of Addendum	BIDDER a	cknowledges receipt of	Addendums
--	----------	------------------------	-----------

Item pricing on this schedule is for use in preparing the schedule of values that will be used as a basis for partial payment during construction and for internal TMWA use. Item descriptions are not intended to be all inclusive. Bidders shall include costs for work not specifically mentioned in the most appropriate item.

Refer to Article 7 of the General Conditions for a list of items that may be included in the mobilization bid item. TMWA reserves the right to perform extra work using time and expense or negotiated lump sum procedures.

The Contract Sum will be adjusted (increased or decreased) for actual quantities per unit price items. Lump sum items will not be adjusted.

Compliance with all permit and environmental requirements is incidental to the Work. No separate bid item, or additional payment provisions, shall be made for operational constraints or conditions placed on the Work by permitting agency requirements.

(signature)	

SUMMARY				
Description	Scheduled		Unit	Total
	Value	Unit	Price	Price
Gene	ral			
1.1 Mobilization and Demobilization	1	LS		

## BID SCHEDULES (Cont)

Description	Scheduled		Unit	Total					
	Value	Unit	Price	Price					
1.2 Traffic Control	1	LS							
1.3 6 inch restrained joint water service main and misc 4" and 8" pipe.	3,960	LF							
1.4 Reconnection of existing service lines from connection point on plans to new water main.	38 39	EA							
1.5 Reconnection of existing services lines from existing water meter to new water main.	10 9	EA							
1.6 Disconnect and abandon existing water main (grouting)	1	LS							
1.7 Removal of existing ACP (Transite) water mains	1,256	LF							
1.8 Furnish and install 4-inch and 6-inch tapping sleeve assembly	3	EA							
1.9 Furnish and place permanent asphalt concrete (ac) pavement patch, permanent concrete patch, and 2" grind and overlay.	1	LS							
Adjustable Unit Cost Items									
1.10 Rock Excavation (Reference Article 4 of the General Conditions)	25	CY							
1.11 Additional Trench Excavation Depth – Per Foot of Depth, for Additional Trench Depths Which Exceed 2 feet Below the Design Profile Depth	50	LF							
TOTAL BID PRICE		1		,					

Total Rid Price Written in Words:		
Total Bio Price Written in Words.		

## **NOTES TO BID SCHEDULE:**

1. This project is bid on a unit price basis and shall include all necessary incidentals and appurtenances for a complete in place, functional facility as described in the contract documents. Where applicable, all Bid Items shall include bolts and nuts, warning tape, cross laminated polyethylene encasement, excavation, bedding, backfill, compaction, asphalt concrete pavement patch, disinfection, flushing, testing, valve boxes, conductor riser pipes, concrete pads, thrust blocks, and any other incidentals and/or appurtenances required for a complete in place, functional facility. Prices include all labor, equipment, materials, supervision, profit, overhead, and incidental costs. Bid item descriptions are not intended to be all inclusive. Bidders shall include costs for work not specifically mentioned in the most appropriate item, including but not limited to: potholing (both where necessary to verify existing utilities and at the locations specifically identified on the Improvement Plans); pavement saw-cutting, grinding, or other method as approved by TMWA; removal and disposal of existing pavement, concrete, and trench spoils; removal and disposal of existing mains/facilities necessary to make

## BID SCHEDULES (Cont)

connections to existing water mains/facilities and/or to install new water mains/facilities; removal and disposal of existing valve/curb valve boxes, conductor pipes, meter boxes, and any other facilities identified in the Improvement Plans, including backfill with aggregate base and placement of asphalt concrete pavement patch; furnishing, installation, and/or removal of flush/test assemblies.

- 2. Refer to Article 7 of the General Conditions for a list of items that may be included in the mobilization bid item.
- 3. TMWA reserves the right to perform extra work using time and expense or negotiated lump sum procedures.
- 4. Trench and pavement patch widths depicted in the trench detail(s) are MINIMUM widths. NO ADDITIONAL PAYMENT will be made for additional backfill materials (sand, cement slurry, and/or base) and/or asphalt concrete (AC) pavement patch for trench and/or pavement patch widths in excess of those depicted in the trench detail(s). Theoretically, the trench and/or pavement patch width(s) could be the entire width of the street from lip of curb to lip of curb. Excavation, backfill, and asphalt concrete (AC) pavement patches required at water main connection locations, cut and cap locations, valve box removal locations, and any other locations not specifically mentioned, shall be as required to complete the task, with NO ADDITIONAL PAYMENT.
- 5. Compliance with all permit and environmental requirements is incidental to the Work. No separate bid item, or additional payment provisions, shall be made for operational constraints or conditions placed on the Work by permitting agency requirements.
- 6. \*Bid items 1.10 and 1.11 are contingent items and may not be required or authorized. Bid items 1.10 and 1.11 will be considered in the total bid price when selecting the best bidder pursuant to NRS 338.

## THESE MATERIAL SPECIFICATIONS SUPPLEMENT THE TECHNICAL SPECIFICATIONS, THE TRUCKEE MEADOWS WATER AUTHORITY ENGINEERING & CONSTRUCTION STANDARDS, AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION "ORANGE BOOK", LATEST EDITION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE TIMWA PROJECT REPRESENTATIVE FOR RESOLUTION.

## MATERIAL COMPLIANCE ALL MATERIALS SHALL BE NSF 61 CERTIFIED. DOCUMENTATION OF SUCH CERTIFICATION SHALL BE PROVIDED IN ALL SUBMITTALS. SEE SPECIFICATIONS SECTION 01300.

SCOPE

DUCTILE IRON PIPE
ALL PIPE MATERIALS AND APPURTENANCES SHALL BE PER THE TMWA ENGINEERING & CONSTRUCTION STANDARDS, UNLESS MODIFIED/AMENDED HEREIN. INSTALLATION, WORKMANSHIP, PRESSURE TESTING AT 300 PSI, AND DISINFECTION SHALL BE PER THE TMWA ENGINEERING & CONSTRUCTION STANDARDS.

ALL DUCTILE IRON PIPE SHALL BE CLASS 350 AND MEET THE REQUIREMENTS OF AWWA STANDARDS C151, C104 AND C111 WITH PRESSURE CLASS AS SPECIFIED IN THE IMPROVEMENT PLANS, ALL DUCTILE IRON PIPE SHALL BE POLYETHYLENE ENCASED PER AWWA C105. DUCTILE IRON PIPE SHALL BE EQUIPPED WITH TYTON TYPE BELL AND SPIGOT JOINTS. DUCTILE IRON PIPE SHALL BE TYTON JOINT DUCTILE IRON PIPE AS MANUFACTURED BY U.S. PIPE, GRIFFIN TYTON JOINT DUCTILE IRON PIPE AS MANUFACTURED BY GRIFFIN PIPE PRODUCTS CO., INC., OR EQUAL.

GATE VALVES FOR SIZES UP TO AND INCLUDING 12-INCHES SHALL MEET AWWA C509 OR C515, NON-RISING STEM, RESILIENT-SEATED VALVES WITH 2-INCH OPERATING NUT FOR BURIED SERVICE. VALVES MEETING THE AWWA C515 STANDARD SHALL HAVE A DUCTILE IRON BODY. 14-INCH AND LARGER GATE VALVES SHALL MEET AWWA C515, DUCTILE IRON BODY AND BONNET, NON-RISING STEM, RESILIENT-SEATED VALVES WITH 2-INCH OPERATING NUT FOR BURIED SERVICE. VALVE SHOULD SEATED VALVES WITH 2-INCH OPERATING NUT FOR BURIED SERVICE. VALVE SHOULD BE SPECIFIED IN THE IMPROVEMENT PLANS. ALL GATE VALVES HALL BE FUSION FEDYX UNDED AND COATED. ALL VALVES SHALL BE POLYETHYLENE ENCASED PER AWWA C105. GATE VALVES UP TO AND INCLUDING 12-INCHES SHALL BE MUELLER 2360 SERIES RESILIENT WEDGE GATE VALVES, OR EQUAL. GATE VALVES 14-INCH AND LARGER SHALL BE MUELLER A-2361 D.I. RESILIENT WEDGE GATE VALVES, AMERICAN SERIES 2500 RESILIENT WEDGE GATE VALVES, OR EQUAL.

### FITTINGS

ALL FITTINGS SHALL BE <u>DUCTILE IRON</u> AND MEET THE REQUIREMENTS OF AWWA STANDARDS C110/C153 AND C104 WITH END CONFIGURATIONS AS SPECIFIED IN THE IMPROVEMENT PLANS. ALL FITTINGS SHALL BE POLYETHYLENE ENCASED PER AWWA C105. FITTINGS SHALL BE ASPHALTIC COATED WITH CEMENT—MORTAR LININGS PER AWWA C110/C153 AND C104. FOR FITTINGS WHERE CEMENT—MORTAR LININGS ARE NOT NORMALLY SUPPLIED, SUCH AS CAPS, PLUGS, AND SLEEVES, THE INSIDE OF THESE FITTINGS SHALL BE ASPHALTIC COATED PER AWWA C110/C153 CONFORMING TO ALL APPROPRIATE REQUIREMENTS FOR SEAL COAT PER AWWA C104.

### 6. RESTRAINED JOINT PIPE AND RESTRAINED JOINT FITTINGS

ALL RESTRAINED JOINT PIPING SHALL BE DUCTILE IRON PIPE, UNLESS OTHERWISE SPECIFIED IN THE IMPROVEMENT PLANS. BELL AND SPIGOT PUSH—ON TYPE DUCTILE IRON TYTON JOINTS SHALL BE RESTRAINED USING RUBBER GASKETS WITH STAINLESS STEEL LOCKING SEGMENTS VULCANIZED INTO THE RUBBER GASKETS. RESTRAINED JOINT RUBBER GASKET SHALL BE FIELD LOK 350 GASKETS AS MANUFACTURED BY U.S. PIPE, THE GRIPPER GASKET LIC, OR EQUAL.

RESTRAINED JOINT FITTINGS SHALL BE MECHANICAL JOINT (MJ) DUCTILE IRON WITH MECHANICAL JOINT WEDGE ACTION RESTRAINT GLANDS COMPATIBLE WITH ALL MECHANICAL JOINTS CONFORMING TO ANSI/AWWA C110/A21.10. GLAND BODY, WEDGES, AND WEDGE ACTUATING COMPONENTS SHALL BE CAST FROM GRADE 65—45—12 DUCTILE IRON IN ACCORDANCE WITH ASTM AS36. DUCTILE IRON GRIPPING WEDGES SHALL BE HEAT TREATED WITHIN A RANGE OF 370 TO 470 BHN. WEDGE ASSEMBLIES SYLAND FLUOROPOLYWER COATED. CASTING BODIES SHALL BE COATED WITH A POLYESTER BASED POWDER TO PROVIDE CORROSION PROTECTION THAT IS ELECTROSTATICALLY APPLIED AND HEAT CURED. MECHANICAL JOINT WEDGE ACTION RESTRAINT GLANDS SHALL BE MEAT TREATED WITHIN A GRADE SHALL BE CAST FROM GRADE 65—65—16—17 DUCTILE IRON PIPE AS MANUFACTURED BY STAR PIPE PRODUCTS, OR EQUAL.

### 7. STRAIGHT AND TRANSITION COUPLINGS

STRAIGHT AND TRANSITION COUPLINGS SHALL MEET THE REQUIREMENTS OF AWWA C219. SLEEVE MATERIAL SHALL BE CARBON STEEL OR DUCTILE IRON WITH NSF-61 REGISTERED FUSION-BONDED EPOXY COATING, BOLTS AND NUTS FOR BURIED SERVICE APPLICATIONS SHALL BE 304 STRILE. COUPLINGS SHALL BE DESIGNED SPECIFICALLY FOR THE PIPE MATERIAL/SIZE AND APPLICATION COUPLINGS SHALL WITH A MAXIMUM OF ONE BOLT AT EACH END. AT EACH END. AT A MAYINGHON COUPLINGS SHALL BE HYMAX 2000 SERIES AS MANUFACTURED BY TOTAL PIPING SOLUTIONS, INC., ROMAC MACRO TWO-BOLT WIDE RANGE DUCTILE IRON COUPLING AS MANUFACTURED BY ROMAC INDUSTRIES, INC., OR EQUAL.

FLANGED COUPLING ADAPTERS SHALL MEET THE REQUIREMENTS OF AWWA C219. SLEEVE MATERIAL SHALL BE CARBON STEEL WITH NSF-61 REGISTERED FUSION-BONDED EPOXY COATING. BOLTS AND NUTS FOR BURIED SERVICE APPLICATIONS SHALL BE ANSI 304/303 STAINLESS STEEL. FLANGED COUPLING ADAPTERS SHALL BE DESIGNED SPECIFICALLY FOR THE PIPE MATERIAL/SIZE AND APPLICATION AND SHALL INSTALL WITH A MAXIMUM OF ONE BOLT ON THE COMPRESSION END. FLANGED COUPLING ADAPTERS SHALL BE FC400 (CLASS F) FLANGED ADAPTERS AS MANUFACTURED BY ROMAC INDUSTRIES, INC., OR EQUAL. FLANGED GASKETS SHALL BE FULL FACE WITH PROFILE BY ACIPCO (TORUSEA), US PIPE (FLANGETYTE) OR APPROVED EQUAL.

### 9. FLANGE AND MECHANICAL JOINT T-HEAD BOLTS AND NUTS

FLANGE BOLTS AND NUTS: BOLTS AND NUTS SHALL BE CARBON STEEL WITH A MINIMUM 60,000 PSI TENSILE STRENGTH CONFORMING TO ASTM A307, GRADE A. BOLTS SHALL BE STANDARD ANSI B1.1, CLASS 2A COARSE THREADS. NUTS SHALL CONFORM TO ASTM A563 AND BE STANDARD ANSI B1.1, CLASS 2A COARSE THREADS. ALL BOLT HEAD S AND NUTS SHALL BE HEXAGONAL. IDENTIFICATION ON THE HEAD OF THE BOLT SHALL BE: A 307 A MCCHANICAL JOINT T-HEAD BOLTS AND NUTS: BOLTS SHALL BE ASTM A242 WEATHERING STEEL WITH A MINIMUM YIELD STRENGTH OF 45,000 PSI. ALL T-HEAD BOLTS AND NUTS SHALL BE THREADED IN ACCORDANCE WITH ANSI B1.1, CLASS 2A COARSE THREADS. HEAVY HEX NUTS SHALL BE USED. BOLT HEADS SHALL BE IN ACCORDANCE WITH THE DIMENSIONS OF ANSI/AWWA

C111/A21.11-95.

C111/A

## 10. CORPORATION STOPS FOR SERVICE CONNECTIONS

CORPORATION STOPS SHALL BE BALL VALVE, BRASS CONFORMING TO AWWA C800 AND ASTM B-62, AND SUITABLE FOR A WORKING PRESSURE OF 300 PSI. INLET END SHALL BE MALE IRON PIPE THREAD (MIP) OR AWWA I.P. THREAD, OUTLET END SHALL BE COMPRESSION CONNECTION SUITABLE FOR CONNECTION TO CTS 0.D. HDPE TUBING, SIZE AS SPECIFED IN THE IMPROVEMENT PLANS. CORPORATION STOPS FOR SERVICE CONNECTIONS SHALL BE FORD BALLCORP CORPORATION STOPS FOR SERVICE CONNECTIONS SHALL BE FORD BALLCORP CORPORATION STOPS FOR SERVICE CONNECTION OUTLET MODEL # FB1100-X-Q AS MANUFACTURED BY THE FORD METER BOX COMPANY, INC., MUELLER 300 BALL TYPE CORPORATION VALVES WITH MUELLER 110 COMPRESSION CONNECTION OUTLET MODEL # B-25028, OR EQUAL.

### 11. CORPORATION STOPS FOR 2-INCH TEMPORARY FLUSHING AND TESTING ASSEMBLIES

DESCRIPTION

CORPORATION STOPS SHALL BE BALL VALVE, BRASS CONFORMING TO AWWA C800 AND ASTM B-62, AND SUITABLE FOR A WORKING PRESSURE OF 300 PSI. INLET END SHALL BE MALE IRON PIPE THREAD (MIP) OR AWWA I.P. THREAD, OUTLET END SHALL BE MALE IRON PIPE THREAD (MIP). CORPORATION STOPS FOR 2-INCH TEMPORARY FLUSHING AND TESTING ASSEMBLIES SHALL BE FORD BALLCORP CORPORATION STOPS MODEL # FB500-7 AS MANUFACTURED BY THE FORD METER BOX COMPANY, INC., MUELLER 300 BALL TYPE CORPORATION VALVES MODEL # B-2969, OR EQUAL.

THE GASKET SHALL BE OF SUCH SIZE AND SHAPE TO PROVIDE AN ADEQUATE COMPRESSIVE FORCE AGAINST THE PLAIN END AND SOCKET AFTER ASSEMBLY TO AFFECT A POSITIVE SEAL UNDER ALL CONDITIONS OF JOINT AND GASKET TOLERANCES. THE SIZE, MOLD NUMBER, GASKET MANUFACTURER'S MARK, THE TRADEMARK OF THE JOINT, AND YEAR OF MANUFACTURER SHALL BE MOLDED ON THE GASKETS. MARKINGS SHALL NOT BE ON THE SEALING SURFACES. ONE GASKET SHALL BE TRADEMARK OF THE JOINT, AND YEAR OF MANUFACTURER SHALL BE MONTOXIC, SHALL NOT SUPPORT THE GROWTH OF BACTERIA, AND SHALL HAVE NO DETERIORATION EFFECTS ON THE GASKET MATERIAL NOR SHALL II IMPART TASTE OR ODDRETO, ON WATER IN A PIPE. THE LUBRICANT SHALL BE DELIVERED TO THE SITE IN UNOPENED, SEALED CONTAINERS LABELED WITH THE TRADEMARK OR TRADE NAME AND THE PIPE MANUFACTURER'S NAME. FLANGED GASKETS: USE FULL FACE DEPORT OF THE SITE IN UNOPENED, SEALED CONTAINERS LABELED WITH THE TRADEMARK OR TRADE NAME AND THE PIPE MANUFACTURER'S NAME. FLANGED GASKETS: USE FULL FACE DEPORT OF THE SITE IN UNOPENED, SEALED CONTAINERS LABELED WITH THE TRADEMARK OR TRADE NAME AND THE PIPE MANUFACTURER'S NAME. FLANGED GASKETS: USE FULL FACE TYPE WITH PROFILE BY ACIPCO (TORUSEAL), US PIPE (FLANGE-TYTE), OR APPROVED EQUAL.

POLYETHYLENE ENCASEMENT SHALL COMPLY WITH ISO 8180, ANSI A21.5, AWWA C105, AND ASTM A674. POLYETHYLENE ENCASEMENT SHALL HAVE A THICKNESS OF 4 MIL. MATERIAL SHALL BE HIGH-DENSITY, CROSS-LAMINATED FILM CONFORMING TO SECTION 4.1.3 OF AWWA STANDAR C105. TUBE SIZE SHALL BE AS LISTED IN TABLE 1 OF SAME STANDARD.

16. SERVICE SADDLES SERVICE SADDLE CLAMPS SHALL BE FUSION NYLON COATING DUCTILE IRON CASING WITH DOUBLE STAINLESS STEEL STRAPS. 17. HOT TAP TAPPING SLEEVES SERVICE TAPPING SLEEVES SHALL BE ROMAC SST WITH FULL CIRCUMFERENTIAL GASKET, OR TMWA APPROVED EQUAL.

18. DISINFECTION TABLETS
DISINFECTION TABLETS SHALL BE CALCIUM HYPOCHLORITE AS OUTLINED IN AWWA C651, TABLET METHOD, LATEST EDITION. A NSF-61 APPROVED, FOOD-GRADE ADHESIVE (LOCTITE AA H3101, NO EQUAL) SHALL BE USED TO ADHERE CALCIUM HYPOCHLORITE TABLETS TO THE INTERIOR OF THE PIPE LENGTHS AS THE PIPE IS INSTALLED. LOCTITE AA H3101 SHALL BE USED ALONE, AND NOT WITH THE PRIMER 2000 PRODUCT.

DESIGNED

DATE

CHECKED

SUBMITTED

APPROVED

RECOMMENDED

3/13/1

DAD DAD

WORK ORDER NO. 10-0002

DAD

RCO/EHP/DAD

FEBRUARY 2017

ADDENDUM 1

19. PERMANENT PAVEMENT SHALL BE PG64-28 TYPE 2 (TYPE 3 IN ALLEYS) PER THE LATEST EDITION OF THE ORANGE BOOK.

## TRUCKEE MEADOWS WATER R U T H O R I T Y 1355 CAPITAL BLVD. / PO BOX 30013 RENO, NEVADA 89520-3013 PH 775-834-8080 / FX 775-834-8003

## NOT REPRODUCIBL

TRUCKEE MEADOWS WATER (Per Homeland Security Act)

**ABBREVIATIONS** 

ASBESTOS CEMENT PIPE

APPROXIMATE(LY)

CURE IN PLACE PIPE

CLASS/CENTERLINE

COPPER TUBING SIZE

DEPRESSED CURB

EXISTING GRADE

GATE VALVE

LINEAR FEET

MALE IRON PIPE

MECHANICAL JOINT

MAXIMUM

PLAIN END

REFERENCE

SHEET

DUCTILE IRON PIPE

FEMALE IRON PIPE

DUCTILE IRON/DROP INLET

FLANGED COUPLING ADAPTER FIRE DEPARTMENT CONNECTION

GALVANIZED HIGH DENSITY POLYETHYLENE

NATIONAL SANITATION FOUNDATION NOT TO SCALE OUTSIDE DIAMETER

PORTLAND CEMENT CONCRETE

POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH

POLYVINYL CHLORIDE REINFORCED CONCRETE PIPE

RESTRAINED MECHANICAL JOINT

REMOVE & WASTE STORM DRAIN STORM DRAIN MANHOLE

TRANSITE (AC) PIPE

TYPICAL WATER METER

 $\overline{\sim}$ 

RESTRAINED—JOINT
RESTRAINED—JOINT DUCTILE IRON PIPE

SANITARY SEWER MANHOLE
STANDARD SPECIFICATIONS FOR PUBLIC WORKS
CONSTRUCTION, LATEST EDITION

PERMANENT PAVEMENT PATCH

2" GRIND AND OVERLAY EXTENTS

REMOVE EXISTING AC. RECONDITION

AND COMPACT, REPLACE AC

EXISTING CONCRETE

TO BE ABANDONED
TRUCKEE MEADOWS WATER AUTHORITY

CAST IRON

CORPORATION

DRIVEWAY

EXISTING

PLUS OR MINUS ASPHALT CONCRETE PAVEMENT

AMERICAN NATIONAL STANDARDS INSTITUTE

AMERICAN WATER WORKS ASSOCIATION CURB AND GUTTER

DIAMETER

ACP, (AC)

APPROX.

CTS

EX./(E)

NTS O.D. P.C.C.

R&W SD SDMH

SSPWC

## PROPOSED 45° ELBOW

PLAN AND PROFILE SYMBOL LEGEND

PROPOSED TEE / TAPPING SLEEVE PROPOSED 90° ELBOW PROPOSED 11.25° ELBOV PROPOSED VERTICAL ELBOW EXISTING VERTICAL ELBOW PROPOSED THRUST BLOCK PROPOSED REDUCER PROPOSED GATE VALVE PLAN PROPOSED GATE VALVE PROFILE PROPOSED GATE VALVE — NORMALLY CLOSED EXISTING ISOLATION VALVE EXISTING ISOLATION VALVE - NORMALLY CLOSED PROPOSED COUPLING PROPOSED CAP  $\slash$  FCA WITH BLIND FLANGE EXISTING CAP PROPOSED NEW WATER METER BOX AND COVER EXISTING WATER METER FACILITY PROPOSED FLUSH ASSEMBLY EXISTING FLUSH ASSEMBLY PROPOSED SSMH BY OTHERS PROPOSED TEST STATION EXISTING SSMH TO BE DEMO BY OTHERS EXISTING SINGLE CHECK VALVE EXISTING FIRE HYDRANT EXISTING STORM DRAIN MANHOLE (SDMH) EXISTING SANITARY SEWER MANHOLE (SSMH)

EXISTING STORM DRAIN CATCH BASIN TYPE 1 EXISTING STORM DRAIN CATCH BASIN TYPE 4-R EXISTING ROUND STORM DRAIN CATCH BASIN WITH GRATE EXISTING NATURAL GAS VALVE EXISTING NATURAL GAS CAP EXISTING NATURAL GAS REDUCER EXISTING UTILITY POLE

EB ET

(T)

TV

MSP

EXISTING TELECOMMUNICATIONS BOX / VAULT (SIZES VARY) EXISTING TELECOMMUNICATIONS VAULT WITH MANHOLE ACCESS EXISTING CHARTER COMMUNICATIONS CABLE TV/FIBER OPTIC BOX (SIZES VARY)

> EXISTING TRAFFIC SIGNAL CABLE MANHOLE ACCESS BOX EXISTING TRAFFIC SIGNAL - MULTIPLE LIGHTS WITH ARM EXISTING TRAFFIC SIGNAL - SINGLE LIGHT

EXISTING UNDERGROUND ELECTRIC VAULT WITH MANHOLE ACCESS

EXISTING ELECTRIC BOX / VAULT (SIZES VARY)

EXISTING (FOUND) MONUMENT

SURVEY CONTROL POINT EXISTING METAL SIGN POST FLOW ARROW REMOVABLE BARRIER POST

GENERAL NOTE, TYP. ON ALL P-SHEETS, NO CALL-OUT CONSTRUCTION NOTE, TYP. ON ALL P-SHEETS, WITH CALL OUT

SHEET NOTE, SPECIFIC TO CURRENT SHEET

DIFGI F 12/31/18 CIVIL

TMWA COS 2017 UNIT 3 WATER MAIN **REPLACEMENT PROJECT - SPARKS, NV** 

LINETYPE LEGEND

 $\cdot \ / \cdot \$  Previously abandoned water service line ---- 18"SD --- Existing storm drain main/lateral with size

---- 12"SS --- Existing sanitary sewer main with size

— — — — UGE — EXISTING UNDERGROUND ELECTRIC FACILITY

- imes i

— — — — RW —— EXISTING RECLAIMED WATER

---- --- GAS ---- EXISTING NATURAL GAS MAIN/LATERAL

— — — — CATV — EXISTING UNDERGROUND CABLE TV

----- EXISTING PROPERTY LINE

→···→···→···→···→···→··· EXISTING FLOWLINE

- - - - - EXISTING MAJOR CONTOUR

· · · · · · · · · · · · · · · · EXISTING MINOR CONTOUR

MJ ADAPTOR (FOSTER ADAPTOR)

MECHANICAL JOINT OR BELL & SPIGOT FITTING

FLANGED COUPLING ADAPTER

FLEXIBLE/TRANSITION COUPLING

EXISTING GROUND ELEVATION (TYP)

RESTRAINED FLANGED COUPLING ADAPTER

RESTRAINED FLEXIBLE/TRANSITION COUPLING

HYMAX COUPLING OR APPROVED EQUAL

GATE VALVE COUPLER (GREY COLOR = EXISITNG)

PROFILE ELEVATION INDICATORS

FLANGED FITTING

------ EXTENTS OF FUTURE PAVING PROJECT

PIPING DETAIL LEGEND

- MEGALUG RESTRAINT OR APPROVED EQUAL

\_\_\_\_ \_ \_ W \_\_\_ EXISTING WATER MAIN

- NEW WATER MAIN/SERVICE LINE

EXISTING WATER SERVICE LINE

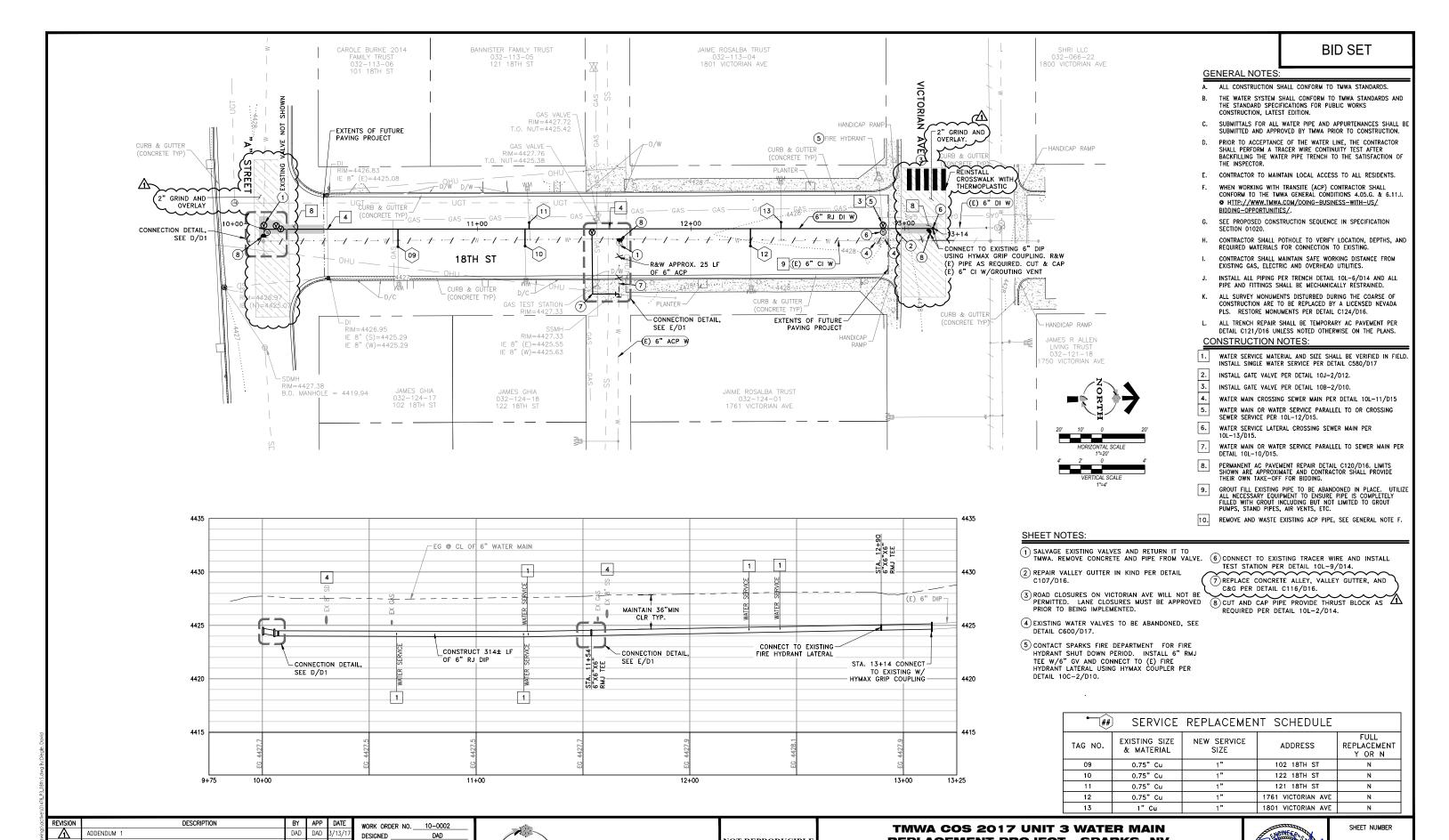
------ ATT ------ EXISTING UNDERGROUND AT&T TELECOMMUNICATIONS FACILITY

FO EXISTING FIBER OPTIC CABLE - CHARTER COMMUNICATIONS

---- — TS --- Existing underground traffic signal facility

**SYMBOLS AND ABBREVIATIONS** 

REVISION



NOT REPRODUCIBLE

(Per Homeland Security Act)

RCO/EHP/DAD FEBRUARY 2017

TRUCKEE MEADOWS WATER

R U T H O R I T Y 1355 CAPITAL BLVD. / PO BOX 30013 RENO, NEVADA 89520-3013

PH 775-834-8080 / FX 775-834-8003

DATE

CHECKED

SUBMITTED

APPROVED

RECOMMENDED

**REPLACEMENT PROJECT - SPARKS, NV** 

**18TH STREET SOUTH ALIGNMENT** 

A ST TO VICTORIAN AVE

DIEGLE

12/31/10 CIVIL

TMWA\_2016.ct



### GENERAL NOTES:

- A. ALL CONSTRUCTION SHALL CONFORM TO TMWA STANDARDS.
- B. THE WATER SYSTEM SHALL CONFORM TO THIWA STANDARDS AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION.
- C. SUBMITTALS FOR ALL WATER PIPE AND APPURTENANCES SHALL BE SUBMITTED AND APPROVED BY TMWA PRIOR TO CONSTRUCTION.
- D. PRIOR TO ACCEPTANCE OF THE WATER LINE, THE CONTRACTOR SHALL PERFORM A TRACER WIRE CONTINUITY TEST AFTER BACKFILLING THE WATER PIPE TRENCH TO THE SATISFACTION OF THE INSPECTOR.
- E. CONTRACTOR TO MAINTAIN LOCAL ACCESS TO ALL RESIDENTS.
- F. WHEN WORKING WITH TRANSITE (ACP) CONTRACTOR SHALL CONFORM TO THE THWA GENERAL CONDITIONS 4.05.G. & 6.11.I. 

  OHTTP://WWW.THWA.COM/DOING-BUSINESS-WITH-US/BIDDING-OPPORTUNITIES/.
- SEE PROPOSED CONSTRUCTION SEQUENCE IN SPECIFICATION SECTION 01020.
- H. CONTRACTOR SHALL POTHOLE TO VERIFY LOCATION, DEPTHS, AND REQUIRED MATERIALS FOR CONNECTION TO EXISTING.
- I. CONTRACTOR SHALL MAINTAIN SAFE WORKING DISTANCE FROM EXISTING GAS, ELECTRIC AND OVERHEAD UTILITIES.
- J. INSTALL ALL PIPING PER TRENCH DETAIL 10L-6/D14 AND ALL PIPE AND FITTINGS SHALL BE MECHANICALLY RESTRAINED.
- K. ALL SURVEY MONUMENTS DISTURBED DURING THE COARSE OF CONSTRUCTION ARE TO BE REPLACED BY A LICENSED NEVADA PLS. RESTORE MONUMENTS PER DETAIL C124/D16.
- L. ALL TRENCH REPAIR SHALL BE TEMPORARY AC PAVEMENT PER DETAIL C121/D16 UNLESS NOTED OTHERWISE ON THE PLANS. CONSTRUCTION NOTES:
- . WATER SERVICE MATERIAL AND SIZE SHALL BE VERIFIED IN FIELD. INSTALL SINGLE WATER SERVICE PER DETAIL C580/D17
- 2. INSTALL GATE VALVE PER DETAIL 10J-2/D12.
- INSTALL GATE VALVE PER DETAIL 10B-2/D10.
- 4. WATER MAIN CROSSING SEWER MAIN PER DETAIL 10L-11/D15
- 5. WATER MAIN OR WATER SERVICE PARALLEL TO OR CROSSING SEWER SERVICE PER 10L-12/D15.
- 6. WATER SERVICE LATERAL CROSSING SEWER MAIN PER 10L-13/D15.
- . WATER MAIN OR WATER SERVICE PARALLEL TO SEWER MAIN PER
- DETAIL 10L-10/D15.
- 8. PERMANENT AC PAVEMENT REPAIR DETAIL C120/D16. LIMITS SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL PROVIDE THEIR OWN TAKE-OFF FOR BIDDING.
- 9. GROUT FILL EXISTING PIPE TO BE ABANDONED IN PLACE. UTILIZE ALL NECESSARY EQUIPMENT TO ENSURE PIPE IS COMPLETELY FILLED WITH GROUT INCLUDING BUT NOT LIMITED TO GROUT PUMPS, STAND PIPES, AIR YENTS, ETC.
- 10. REMOVE AND WASTE EXISTING ACP PIPE, SEE GENERAL NOTE F

## SHEET NOTES:

- 1 SALVAGE EXISTING VALVES AND RETURN TO TMWA. REMOVE CONCRETE AND PIPE FROM VALVES.
- 2 CUT AND CAP PIPE PROVIDE THRUST BLOCK AS REQUIRED PER DETAIL 10L-2/D14.
- 3 EXPOSE EXISTING VALVE COVERED BY ASPHALT .
- (4) CONTRACTOR TO PROTECT POWER POLE IN PLACE. CONTRACTOR TO COORDINATE WITH NV ENERGY PRIOR TO TRENCHING NEAR EXISTING POWER POLE.
- (5) INSTALL FLUSH ASSEMBLY PER DETAIL 10E-3/D11.
- 6 INSTALL RESTRAINED JOINT VERTICAL OFFSET, SEE DETAIL 101-4/D12.
- $\bigcirc$  Connect to existing tracer wire and install test station per detail 10L-9/D14.

*# SERVICE REPLACEMENT SCHEDULE								
TAG NO.	EXISTING MATERIAL & SIZE	NEW SERVICE SIZE	ADDRESS	FULL REPLACEMENT Y OR N				
14	0.75" Cu	1"	526 16TH ST	N				
15	<b>∕1</b> \( 0.75" CU )	1"	1550 D ST	N				
16	1.5" POLYBUTYLENE	1.5"	426 NASH ST	Υ				
17	1.5" POLYBUTYLENE	1.5"	436 NASH ST	Y				
18	1.5" POLYBUTYLENE	1.5"	446 NASH ST	Y				
19	1.5" POLYBUTYLENE	1.5"	456 NASH ST	Y				
20	2" HDPE (TYP OF 4)	2"	1559 PRATER WAY	N				

VISION	DESCRIPTION	BY	APP	DATE	WORK ORDER NO. 10-0002	<u> </u>
$\Lambda$	ADDENDUM 1	DAD	DAD	3/13/17	DESIGNED DAD	
					DRAWNRCO/EHP/DAD	
					DATEFEBRUARY 2017	TRUCKEE MEADOWS WATER
					CHECKEDDAD/RCK	/
					SUBMITTED	1355 CAPITAL BLVD. / PO BOX 30013
					RECOMMENDED	RENO, NEVADA 89520-3013
					APPROVED	PH 775-834-8080 / FX 775-834-8003

LYNCH LIVING TRUST 032-73-17 526 16TH ST

IN PLÁCE)

-EX. D/W (PROTECT (

EXTENTS OF FUTURE

PAVING PROJECT (TYP)

 $\Delta$ 

14 v

11+00

MATCHLINE STA: 12+14 THIS SHEET

90° ELB.

NASH ALLEY

NOT REPRODUCIBLE
PROPERTY OF
TRUCKEE MEADOWS WATER
AUTHORITY, RETURN UPON
COMPLETION OF PROJECT
(Per Homeland Security Act)

CURB & GUTTER

6" RJ DI W

(CONC TYP)

(E) 4" CI W

NASH ST

TISHOO X X GAX X GAX X GAX

TMWA COS 2017 UNIT 3 WATER MAIN REPLACEMENT PROJECT - SPARKS, NV NASH STREET ALIGNMENT 16TH ST TO PRATER WAY

HOUSING AUTHORITY CITY OF RENO 032-73-28 1559 PRATER WAY

GAS VALVE --RIM=4427.09 T.O. NUT=4424.23

- GAS METERS

20 (TYP OF 4)

CURB & GUTTER



SHEET NUMB

**P4** 

5 TMWA 2016 ctb

NORTH

CURB & GUTTER

(CONC TY

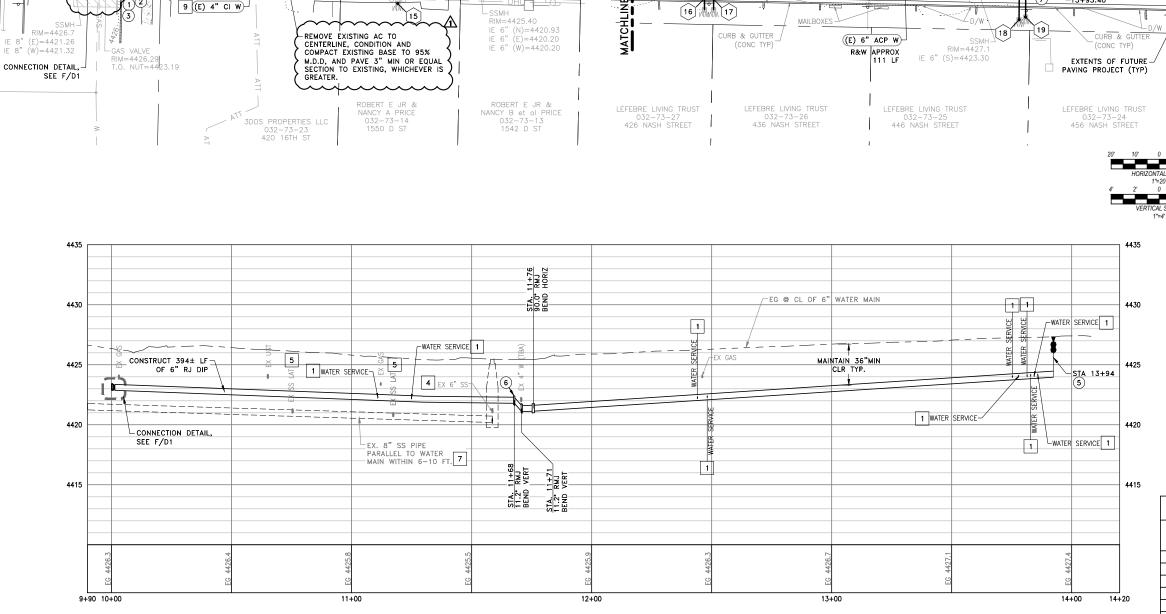
 $\Delta X$ 

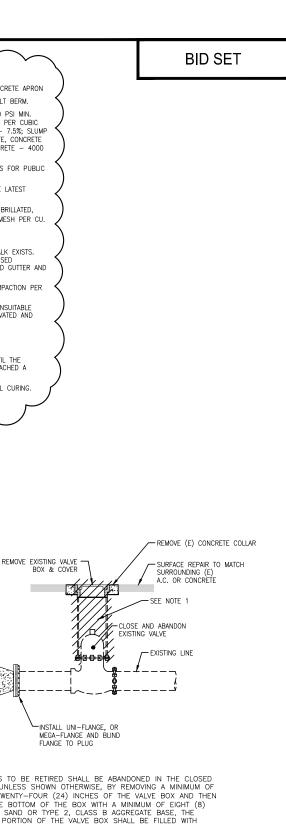
2" GRIND AND

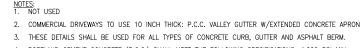
REMOVE & REPLACE CONCRETE DRIVE PER

DETAIL C400/D17

OVERLAY







- 4. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL MEET THE FOLLOWING SPECIFICATIONS; 4,000 PSI MIN. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL MELT INFORMATION SPECIFICATIONS; 4,000 PSI MICOMPRESSIVE STRENGTH @ 28 DAYS W/ MIN. 6.25 SACKS OF TYPE II CEMENT (588 LBS) PER CUBIC YARD OF CONCRETE; WATER/CEMENT RATIO 0.45 MAX; AIR ENTRAINMENT SHALL BE 4.5% - 7.5%; SLUMP SHALL RANGE FROM 1" MIN TO 4" MAX. IF P.C.C. DRIVEWAY APRON IS COLORED CONCRETE, CONCRETE SHALL BE A MINIMUM OF 7 SACKS OF TYPE II CEMENT (658 LBS) PER CU. YD. OF CONCRETE - 4000 PSI COMPRESSIVE STRENGTH @ 28 SAYS WITH 4.5 - 7.5% AIR.
- 5. ALL MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).
- CONCRETE SHALL BE FINISHED AND CURED IN ACCORDANCE WITH METHODS FOUND IN THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- REINFORCING FOR ALL DRIVEWAY APRONS/CURB/GUTTERS SHALL CONSIST OF COLLATED, FIBRILLATED, POLYPROPYLENE FIBERS AS MFD. BY FIBERMESH OR APPROVED EQUAL ADD 1½ LBS FIBERMESH PER CU. YD. OF CONCRETE.
- 8. CONCRETE FOR DRIVEWAY APRON SHALL RECEIVE A MEDIUM BROOM FINISH.
- 9. REMOVE CONCRETE WHEN CONSTRUCTING DRIVEWAY WHERE CURB, GUTTER AND/OR SIDEWALK EXISTS. CURB REMOVAL SHALL BE TO NEAT SAW—CUT LINES AND ALONG LIP OF GUTTER. ALL UNUSED DEPRESSED CURB SHALL BE REMOVED AND REPLACED WITH FULL HEIGHT CURB. CURB AND GUTTER AND APRON MAY BE POURED MONOLITHIC.
- TYPE 2 CLASS B AGGREGATE BASE SHALL BE COMPACTED TO 95% MINIMUM RELATIVE COMPACTION PER ASTM D-1557.
- 11. SUBGRADE SHALL BE COMPACTED TO 90% MIN RELATIVE COMPACTION. IF EXPANSIVE OR UNSUITABLE MATERIALS ARE ENCOUNTERED AT SUBGRADE ELEVATION, THE SOILS SHALL BE OVER-EXCAVATED AND APPROVED BY CITY OF SPARKS PRIOR TO PLACEMENT OF AGGREGATE BASE.
- 12. MAXIMUM SLOPE ON DRIVEWAYS SHALL BE 14%.

FXIST SIDEWALK

TOOLED CRACK CONTROL JOINTS (TYP)

35 IN RISE

<u>PLAN</u>

TOOLED CRACK JOINTS ON APPROX 5 FT

DRIVEWAY CURB OPENING

TOOLED CRACK CONTROL JOINTS

MIN CONCRETE . . . 6 IN. GUTTER

4'-0" 3½ IN. RISE

SECTION B-B N.T.S

4 IN MIN OF TYPE 2 CLASS B

CUTTER PAN

CENTERS IN CLIRB AND CLITTER AND DRIVEWAY APRON WITHIN THE LIMITS OF THE DEPRESSED CURB

DEPRESSED CURB

EXIST LANDSCAPE

PAVEMENT } IN. ABOVE LIP

6 IN MIN OF TYPE 2 CLASS B.

**CONCRETE DRIVEWAY (NASH ALLEY)** 

- 14. NO EQUIPMENT SHALL BE PERMITTED ADJACENT TO OR ACROSS THE DRIVEWAY APRON UNTIL THE FOURTH DAY FOLLOWING PLACEMENT OF THE CONCRETE OR UNTIL THE CONCRETE HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.
- 15. EVAPORATION REDUCERS (SUCH AS CONFLIM) SHALL BE APPLIED IMMEDIATELY AFTER INITIAL CURING.

C400

D17

CONNECT NEW SERVICE LINE TO EXISTING SERVICE W/TRANSITION FITTING. SERVICE SIZES SHOWN ON PLANS. MIN. COVER CONNECT SERVICE WIRE TO MAIN WIRE PER (SS) -Locating wire (#12 AWG, 304 SS, BY COPPERHEAD INDUSTRIES) 10H-2 NOTES:

- ALL SERVICE LINE COUPLING FITTINGS SHALL BE MUELLER CTS 110 COMP. x MIP.
- 2. ALL SERVICE VALVES SHALL BE SAME SIZE AS SERVICE LINES (ON 3" SERVICE, USE 4" GATE VALVE AND PIPE.)
- 3. SERVICE CLAMPS SHALL BE FACTORY COATED EPOXY WITH STAINLESS STEEL BAND.
- 4. MINIMUM DISTANCE BETWEEN TAPS AND MAINLINE FITTINGS, INCLUDING BELLS SHALL BE 18".
- 5. TAPPING SADDLES 3" OR LARGER SHALL BE STAINLESS STEEL, HAVE A FULL CIRCUMFERENTIAL SEAL AND HAVE EITHER A STAINLESS STEEL OR DUCTILE IRON FLANGE.
- 6. ALL PLUMBING SHALL BE DISCONNECTED FROM CORP AND PLUGGED AT BOTH ENDS. WATER UTILITY SHALL BE NOTIFIED FOR INSPECTION OF CORP ASSEMBLY PRIOR TO BACKFILLING.
- 7. ALL NEW SERVICE LINES SHALL CONNECT TO EXISTING METER PIT SETTER AT EXISTING COMPRESSION
- 8. IF EXISTING COMPRESSION FITTING IS IPS, IT SHALL BE REMOVED AND REPLACED WITH A CTS COMPRESSION FITTING TO FIT THE NEWLY INSTALLED PE SERVICE LINE.

WATER SERVICE TAP & METER CONNECTION



(10L-2) TYP

THRUST BLOCK (TYP)

1. ALL VALVES TO BE RETIRED SHALL BE ABANDONED IN THE CLOSED POSITION, UNLESS SHOWN OTHERWISE, BY REMOVING A MINIMUM OF THE TOP TWENTY—FOUR (24) INCHES OF THE VALVE BOX AND THEN FILLING THE BOTTOM OF THE BOX WITH A MINIMUM OF EIGHT (8) INCHES OF SAND OR TYPE 2, CLASS B AGGREGATE BASE, THE REMAINING PORTION OF THE VALVE BOX SHALL BE FILLED WITH CONCEPTE CONCRETE.

TYPICAL ABANDONED VALVE & PIPE

C600

: 1						
į	REVISION	DESCRIPTION	BY	APP	DATE	W
ò	$\Lambda$	ADDENDUM 1	DAD	DAD	3/6/17	DE
						DF
						D/
3						CH
2						SU
						RE
2						

WORK ORDER NO. 10-0002 DESIGNED DAD RCO/EHP/DAD FEBRUARY 2017 DATE CHECKED SUBMITTED RECOMMENDED APPROVED



TRUCKEE MEADOWS WATER R U T H O R I T Y 1355 CAPITAL BLVD. / PO BOX 30013 RENO, NEVADA 89520-3013 PH 775-834-8080 / FX 775-834-8003

EXIST SIDEWALK

EXIST LANDSCAPE

CONCRETE 4 IN MIN OF TYPE 2 CLASS B AGGREGATE BASE (SEE NOTE 10)

 $\Delta$ 

8 IN MIN THK. CONCRETE IN WINGS, AND TAPERS

AGGREGATE BASE (SEE NOTE 10)

SUBGRADE (SEE NOTE 11)

NOT REPRODUCIBLE PROPERTY OF TRUCKEE MEADOWS WATER AUTHORITY, RETURN UPON (Per Homeland Security Act)

**TMWA COS 2017 UNIT 3 WATER MAIN REPLACEMENT PROJECT - SPARKS, NV** TYPICAL MECHANICAL **DETAILS** 



SHEET NUMBER