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July 1, 2020

RFP# 2020-0220-PW/CW
Construction Services for the Canoncito-Eldorado Waterline Project

ADDENDUM #2
*****ADDITIONAL INFORMATION *****

Dear Proponents,

This addendum is issued to reflect the following immediately. It shall be the responsibility of interested Offerors to adhere to any changes or revisions to the IFB as identified in this Addendum No. 2. This documentation shall become permanent and made part of the departmental files.

Please note that the Santa Fe County Public Works Department and the Purchasing Division for the County have provided additional information relating to the Request for Proposals # 2020-0220-PW/CW.

RESPONSES TO QUESTIONS
Responses are shown in bold.

1. Would it be possible to delay the submission of the technical proposal information regarding subcontractor qualifications and information to July 16th? We will be receiving quotes right up until bid time, which will leave no time at all to incorporate the subcontractor qualifications into the package.
 - a. **Please refer to Addendum #1, posted to the County's website on June 26th, with date changes. The critical date changes are: proposals are due on July 29th at 2:00 pm; the statement of qualifications for subcontractors are due on July 31st at 2:00 pm. The list of subcontractors is due with the proposals on July 29th. Questions regarding information disseminated in addenda will be accepted until July 20th.**
2. Are there any deadlines for any portion of the work bidders need to be aware of?
 - a. **Answered in Addendum #1 via the modified sequence of events (Attachment A).**
3. Bid Items 1.09, 2.05, and 3.10. Bid item description includes haul off of water. Where can water from flushing activities be disposed of?
 - a. **Contractor is responsible for proper disposal of highly chlorinated water.**

4. Bid Item 1.25. Does work include furnishing and install of the meter, or will the meter be supplied by owner?
 - a. **Work includes furnishing of specified meter and installation.**
5. Sheet W-510 Note 8. Note is called out on the drawings, but no description.
 - a. **Reissue of Drawing W-510 with this Addendum.**
6. Bid Items 1.08, 2.04, and 3.09. Is there a location where excavated rock can be disposed of?
 - a. **Contractor is responsible for disposal of waste material.**
7. Sheet W-507. Which detail for the ARV is to be used?
 - a. **Match the size of the air valve station to the size of the air valve noted on the profiles.**
8. Bid Item 2.01. Bid item references sheet W-220. We can't find this work on sheet W-220.
 - a. **Sheet W-220: Replace note for Station 10+09 with the following:
"STA. 10+09
Remove 8" Cap and Connect to waterline extension from the District's Master Meter Flow Control Valve Vault"**
 - b. **Sheet W-220: Replace the note that reads "Future EAWSD Water Meter by Others" with the following:
"Existing EAWSD Master Meter Flow Control Valve Vault"**
9. Specification 01 45 16.14. Spec requires DVD format. Will other media forms be acceptable?
 - a. **Other forms of media for delivery of digital video recordings are acceptable such as a flash drive or Dropbox.**
10. HDD Bid Items. Is there a location where drill cuttings can be disposed of?
 - a. **Contractor is responsible for disposal of waste material.**
11. Bid Item 3.18 Will there be a casing for this work? If so what size and material?
 - a. **Issue of new drawing W-513 of HDD crossing detail with this Addendum.**
12. Where can grubblings from site clearing be disposed of?
 - a. **Contractor is responsible for disposal of waste material.**
13. Have the NMDOT Permits been obtained?
 - a. **Molzen Corbin (engineers) will secure pre-approval of the 6 NMDOT utility permits prior to award.**
14. What is the subcontractor listing threshold?
 - a. **\$5,000**
15. Bid Item 6.11. Can you clarify this item? Is it 10% of the total cost including all allowances or 10% of the cost before the allowances?
 - a. **Item will be removed from Bid Form and the Bid Form will be reissued with this Addendum.**
16. Can you provide estimated cost of any Santa Fe County Permits that would be applicable?
 - a. **County PM has submitted a Conditional Use Permit application required by the Santa Fe County Land Use Code.**
17. Will a full time TCS be required for the work along the Old Las Vegas Highway? (Lines 2 and 3)
 - a. **Contractor to follow all applicable guidelines spelled out in the NMDOT Utility Permits for providing Traffic Control Supervisor.**
18. Both Architectural and Structural plan sheets show 9ea Type A windows, but elevation sheets only show 7ea Type A windows. Please verify.

- a. **Furnish 9 Type A windows as shown on the Architectural Plan A-101 and Structural Plan S-101. Architectural elevations are incorrect.**
- 19. Per the Geotechnical Report it is requiring 3 foot of structural fill under the tank with 3" of sand, but Sheet 301 is indicating 4" asphalt concrete. Please advise. If asphalt concrete is required can the sand be eliminated?
 - a. **The design shown on the Drawings supersedes the recommendations in the Geotechnical report. The asphalt design shown on the Drawings replaces the recommended sand cushion.**
- 20. Bid Item #4.05- 12" Isolation valve, there is an 8" valve on the inlet line to tank and 12" outlet line from the tank. Please verify that 1 ea 8" gate valve and 1 ea 12" gate valve should be included in this bid item.
 - a. **Bid Form is incorrect, there will be an 8" gate valve on the inlet line and a 12" gate valve on the outlet line. The Bid Form will be reissued.**
- 21. Drawing Sheet W-512 shows the surge tank volume as 3,434 gallons while Section 3.04.A.2 lists it as 3,232 gallons. We believe the correct volume is 3,434 which matches the model number in Section 3.04.A.19 but please confirm.
 - a. **The correct volume of the surge tank is 3,434 gallons.**
 - b. **Specification 33 12 17 Paragraph 3.04 A.2.: Change paragraph to read:
"2. Minimum Capacity: 3,434 gallons."**
- 22. Specification Section 33 12 17 Hydropneumatic Tanks - Section 3.04.A.12 requires a rubber pipe expansion joint which the manufacturer Charlotte recommends but drawing W-512 does not show it. The minimum length Proco Model 231HP joint is 6" long and will increase the overall tank height by that amount. Is this acceptable?
 - a. **Yes.**
 - b. **Drawing W-512, Section A: Add 6" pipe expansion joint PROCO Model 231HP, 6" neutral length, other details as specified in Section 33 12 17. Expansion joint placed between the slab and the tank tee. Raise tank 6" to accommodate expansion joint by means of leg extensions.**
- 23. Specification Section 33 12 17 Hydropneumatic Tanks - Neither Drawings W-101 nor W-512 show a 6" isolation valve for the surge tank. This valve can be buried or located directly below the surge tank. If located directly below the surge tank, it will increase the overall tank height by the length of the valve. A 6" flanged butterfly valve is 5" long and a 6" flanged RW gate valve is 10.5" Long. The tank manufacturer typically prefers an above-grade valve for maintenance purposes. It is possible to offset the underground piping from the center of the tank and provide a short horizontal run to contain both the expansion joint and isolation valve. In this case, the tank will be provided with a 90-degree outlet in lieu of a bottom outlet. This arrangement minimizes overall tank height. Please clarify which type of valve is required and include it in the appropriate drawings with the required arrangement.
 - a. **Sheet W-101 Plan: Add buried 6" gate valve, MJ with valve box on the 6" branch line to the surge tank between the 10"x6" Tee and the 6" 11.25-degree bend. 6" valve shall be included in the Lump Sum of Bid Item 5.03.**
- 24. Drawing Sheet W-505 - The drawing shows a vault lid of 12" thickness and a live loading requirement of 300 PSF. It is possible to meet this live load requirement with a steel

- reinforced concrete lid measuring 8" thick. Please confirm this will be acceptable if the vault design is accompanied by PE stamped structural calculations by the manufacturer.
- a. **Yes, slab thickness shall be designed in accordance with the procedures specified in Section 33 05 63.01. Supplier shall submit Structural calculations stamped by a P.E.**
 25. Specification Section 40 27 02.13 - The hydraulic control valve Section 40 27 02.13 lists the design basis model numbers in Section 3.03 which include stainless steel seats and pilots. Please update Section 2.03.E&I to remove bronze materials.
 - a. **Specification 40 27 02.13, Paragraphs 2.03 E and I: Change material to Stainless Steel only.**
 26. Specification Section 40 27 02.13 - Each hydraulic control valve in Section 3.03 requires a closed position limit switch but electrical requirements are listed as "none". Please clarify limit switch voltage if the switch is required.
 - a. **Electrical connections are not included.**
 27. Specification Section 40 27 02.13 - Please add "inlet and outlet pressure gauges" on Section 3.03.C and "inlet pressure gauge" on 3.03.D valves.
 - a. **Specification 40 27 02.13: Add new Paragraph 3.03 C. 8. f.: "f. Inlet and outlet pressure gauges."**
 - b. **Specification 40 27 02.13: Add new Paragraph 3.03 D. 8. f.: "f. Inlet and outlet pressure gauges."**
 28. Specification Section 40 27 02.13 - Please update altitude valve size in Section 3.03.A to 8" which is consistent with Drawing W-509.
 - a. **Specification 40 27 02.13, Paragraph 3.03 A.1., change paragraph to read: "1. Size: 8".**
 29. Specification Section 43 23 32 - Section 3.05.C.3 lists the high service pump connections as Class 125 where the booster pump and the relief valve are ANSI Class 300. Please confirm this is correct.
 - a. **The Booster Pump has 2" inlet and outlet connections. Grundfos only offers 300 lb pattern flanges for 2" connections. The High Service Pumps have 4" inlet and outlet connections and Grundfos offers 125/150 lb pattern and 250 lb pattern flanges, the 125/150 lb pattern is adequate for the designed head conditions.**
 30. Contract drawings S-102 & S-301 shows the tank foundation design. Can the foundation be designed per AWWA and the Geotechnical Report? Anchor bolts are not required per AWWA calculations.
 - a. **For bidding purposes, include the anchors as shown in the Drawings.**
 31. There is a conflict between the Specifications 33 16 13.13-4 sec. 3.03.A.3 and the elevation on drawing W-105. Please clarify.
 - a. **High water level of 16.75' is correct.**
 - b. **Specification 33 16 13.13, Paragraph 3.03 A. 1., change paragraph to read: "1. Capacity: 0.157 million gallons."**
 - c. **Specification 33 16 13.13, Paragraph 3.03 A. 2., change paragraph to read: "2. Diameter: 40 feet I.D."**
 32. Sheet W-235 - what size of casing is to be used for the 8" waterline offset around the existing culvert? Is this material to be paid under bid item# 3.22?
 - a. **Sheet W-223: In the Plan and Profile view, replace note from STA. 24+44 to STA 25+41 with the following: "WATERLINE STA. 24+44 TO STA. 25+41 IN 20" STEEL CASING"**

- b. **Sheet W-235: In the Profile view, replace note at STA. 171+50 to STA. 171+70 with the following:**
“WATERLINE STA. 171+50 TO STA. 171+70 IN 20” STEEL CASING”
 - c. **Sheet W-235: In the Plan view, add note at STA. 171+50 to STA. 171+70 that reads as follows:**
“WATERLINE STA. 171+50 TO STA. 171+70 IN 20” STEEL CASING”
- 33. Bid Item #3.16 - The quantity of 25 EA- Fire Hydrant Assemblies appears to include hydrants that are included in the Additive Alternate Bid Item #7. Can you please review and confirm the quantity of fire hydrant assemblies in Bid Lot #3?
 - a. **Bid Item #3.16 – Base Bid quantity of Fire Hydrant Assemblies reduced from 25 to 24, Bid Form will be reissued with this Addendum.**
 - b. **Additive Alternate Bid Item #7 is correct as is.**
- 34. Sheet G-001 Index of Drawings
 - a. **Update to include addition of Sheet “W-513 HORIZONTAL DIRECTIONAL DRILL – METERED SERVICE CONNECTION DETAIL – ADDENDUM 2”.**
- 35. Sheet W-511 HORIZONTAL DIRECTIONAL DRILL AND JACK AND BORE STANDARD DETAILS – updates to tracer wire detail.
 - a. **Reissue of Drawing W-511 with this Addendum.**
- 36. Under the insurance requirements section, on page 11, Professional Liability is listed. We wanted to verify that this will be required for this specific project.
 - a. **Required insurances will be in accordance with section “14. Insurance” in the sample construction contract; they are as follows:**
 - 14.4 General Liability Insurance, Including Automobile. The Contractor shall procure and maintain during the life of this Agreement a comprehensive general liability and automobile insurance policy with liability limits in amounts not less than \$1,000,000.00 combined single limits of liability for bodily injury, including death, and property damage for any one occurrence. Said policies of insurance shall include coverage for all operations performed for the County by the Contractor; coverage for the use of all owned, non-owned, hired automobiles, vehicles and other equipment, both on and off work; and contractual liability coverage under which this Agreement is an insured contract. Santa Fe County shall be a named additional insured on the policy.
 - 14.5 Subcontractor's Public Liability and Property Damage Insurance and Vehicle Liability Insurance. The Contractor shall require each of its subcontractors to procure and to maintain during the life of its subcontract, Subcontractor's Public Liability and Property Damage Insurance and Vehicle Liability Insurance of the type and in the amounts specified in 14.4 above.
 - 14.6 Workers' Compensation Insurance. The Contractor shall comply with the provisions of the Workers' Compensation Act, 52-1-1 to 52-1-70, NMSA 1978. The Contractor shall procure and shall maintain during the life of this contract Workmen's Compensation insurance as required by applicable State law for all of its employees to be engaged in work at the site of the project under this contract and, in case of any such work sublet, the Contractor shall require the subcontractor similarly to provide Workmen's Compensation insurance for all of the latter's employees to be

engaged in such work unless such employees are covered by the protection afforded by the Contractor's Workmen's Compensation insurance. In case any class of employees engaged in hazardous work on the project under this contract is not protected under the Workmen's Compensation law, the Contractor shall provide and shall cause each subcontractor to provide adequate employer's liability insurance for the protection of such of its employees as are not otherwise protected.

14.7 Scope of Insurance and Special Hazards. The insurance required under subparagraphs 14.4 and 14.5 hereof shall provide adequate protection for the Contractor and its subcontractors, respectively, against damage claims which may arise from operations under this contract, whether such operations be by the insured or by anyone directly or indirectly employed by it and, also against any of the special hazards which may be encountered in the performance of this contract.

14.8 Builder's Risk Insurance (Fire and Extended Coverage). Until the project is completed and accepted by the County, the County, or Contractor at the County's option is required to maintain Builder's Risk Insurance (fire and extended coverage) on a 100% completed value basis on the insurable portion of the project for the benefit of the County, the Contractor, subcontractors as their interests may appear. The Contractor shall not include any costs for Builder's Risk Insurance (fire and extended coverage) premiums during construction unless the Contractor is required to provide such insurance; however, this provision shall not release the Contractor from its obligation to complete, according to plans and specifications, the project covered by the contract, and the Contractor and his Surety shall be obligated to full performance of the Contractor's undertaking.

ATTACHMENTS:

REVISED COST FORM
WSF-104
WSF-105
WSF 106
WSF 501
WSF- 510
WSF-511
WSF-513

Please add this Addendum #2 to the original bid documents and refer to bid documents, hereto as such. This and all subsequent addenda will become part of any resulting contract documents and have effects as if original issued. All other unaffected sections will have their original interpretation and remain in full force and effect. Offerors are reminded that any questions or need for clarification must be addressed to Coralie Whitmore, Senior Procurement Specialist at cgwhitmore@santafecountynm.gov

**Santa Fe County - Canoncito-Eldorado WaterLine
BID FORM**

BID					
Item No.	Description	Unit	Quantity	Unit Price	Amount
Bid Lot 1: Water Transmission Line #1 (Sheets: W-202 to W-218)					
1.01	Horizontal wet tap connection to existing 16-inch ductile iron pipe shown on Sheet W-202 (Station 10+00), including: excavation, backfill, wet tap connection and 12" tapping valve, valve box, fittings, pipe, installation, all appurtenances, and all incidental work, complete in place.	LS	1		
1.02	Vertical wet tap connection to existing 16-inch ductile iron pipe for 3-inch air valve shown on Sheet W-202, including: excavation, backfill, wet tap connection and 4" tapping valve, fittings, pipe, installation, all appurtenances, and all incidental work, complete in place.	LS	1		
1.03	Connection Detail 1, including: piping, fittings, and all appurtenances, complete in place, excluding Pipe. (Connection Detail W-508) Stations: 54+10, 90+63, 116+85, 130+69, and 162+95.	LS	5		
1.04	8-inch Polyvinyl Chloride Pipe, including: pipe, all fittings, restraint devices, installation in trench, wrapping of metallic fitting components for corrosion protection, and all incidental work, complete in place.	LF	100		
1.05	12-inch Polyvinyl Chloride Pipe, including: pipe, all fittings, restraint devices, installation in trench, wrapping of metallic fitting components for corrosion protection, and all incidental work, complete in place.	LF	15,505		
1.06	Trenching for 8-inch water transmission line for limits shown on Drawings, including: trenching, backfill, compaction, shoring, riprap, all associated appurtenances, and incidental work, complete in place. Excluding HDD pits.	LF	100		
1.07	Trenching for 12-inch water transmission line for limits shown on Drawings, including: trenching, backfill, compaction, shoring, riprap, all associated appurtenances, and incidental work, complete in place. Excluding HDD pits.	LF	15,505		

1.08	Rock Excavation for waterlines; include removal and disposal of unsuitable backfill material, and supply and hauling of imported backfill material. Does not include placement and compaction of backfill.	LF	500		
1.09	Pressure testing, flushing, and disinfection of all waterlines, including: all temporary piping connections, hauling or pumping of water as needed, all incidental work to complete the work, and bacteriological testing costs.	LF	20,200		
1.10	Pipe Detection System and Pipe Markers, including: underground cable tracing equipment, identification tape, tracer wire and terminal boxes, pipe markers, field testing of tracer wire, install tracer wire and identification tape continuously in trench over all pipe and valves, and all incidental work, complete in place. Excludes tracing wire in horizontal directional drills.	LF	15,605		
1.11	8-inch Buried Valves, including fittings, external restraint devices and valve box, complete in place.	EA	5		
1.12	12-inch Buried Valves, including fittings, external restraint devices and valve box, complete in place.	EA	15		
1.13	1-inch, 2-inch and 3-inch Combination Air Valve Stations, including: precast manhole vault, piping, insulated wraps, all appurtenances, and all incidental work, complete in place.	EA	11		
1.14	Flushing Port Station, including: piping, fittings, valve with box, concrete pad, and all appurtenances, complete in place.	EA	8		
1.15	HDD - Pull head rental fee	LS	1		
1.16	Pair of HDD pits, to include earthwork, stabilization and shoring.	EA	8		
1.17	Arroyo Crossing 1 - Horizontal Directional Drill (HDD), 14-inch HDPE pipe, Station 31+47 to Station 42+73 (1,126 feet); including: all work associated with the HDD work, restrained transition couplings, all fittings and appurtenances, mud disposal, unloading, staging, installation, pipe rollers, earthwork, site power, diesel fuel, fittings for connection work, installation of 3 10-gauge insulated tracer wires, and all incidental work, complete in place.	LF	1,126		

1.18	Arroyo Crossing 2 - Horizontal Directional Drill (HDD), 14-inch HDPE pipe, Station 72+15 to Station 80+21 (806 feet); including: all work associated with the HDD work, restrained transition couplings, all fittings and appurtenances, mud disposal, unloading, staging, installation, pipe rollers, earthwork, site power, diesel fuel, fittings for connection work, installation of 3 10-gauge insulated	LF	806		
1.19	Arroyo Crossing 3 - Horizontal Directional Drill (HDD), 14-inch HDPE pipe, Station 102+57 to Station 109+45 (688 feet); including: all work associated with the HDD work, restrained transition couplings, all fittings and appurtenances, mud disposal, unloading, staging, installation, pipe rollers, earthwork, site power,	LF	688		
1.20	Arroyo Crossing 4 - Horizontal Directional Drill (HDD), 14-inch HDPE pipe, Station 113+53 to Station 116+08 (255 feet); including: all work associated with the HDD work, restrained transition couplings, all fittings and appurtenances, mud disposal, unloading, staging, installation, pipe rollers, earthwork, site power, diesel fuel, fittings for connection work, installation of 3 10-gauge	LF	255		
1.21	Arroyo Crossing 5 - Horizontal Directional Drill (HDD), 14-inch HDPE pipe, Station 131+56 to Station 137+33 (577 feet); including: all work associated with the HDD work, restrained transition couplings, all fittings and appurtenances, mud disposal, unloading, staging, installation, pipe rollers, earthwork, site power, diesel fuel, fittings for connection work, installation of 3 10-gauge insulated tracer wires and all incidental work, complete in place.	LF	577		
1.22	Arroyo Crossing 6 - Horizontal Directional Drill (HDD), 14-inch HDPE pipe, Station 147+12 to Station 151+75 (463 feet); including: all work associated with the HDD work, restrained transition couplings, all fittings and appurtenances, mud disposal, unloading, staging, installation, pipe rollers, earthwork, site power, diesel fuel, fittings for connection work, installation of 3 10-gauge insulated tracer wires and all incidental work, complete in place.	LF	463		

1.23	Arroyo Crossing 7 - Horizontal Directional Drill (HDD), 14-inch HDPE pipe, Station 180+07 to Station 183+89 (382 feet); including: all work associated with the HDD work, restrained transition couplings, all fittings and appurtenances, mud disposal, unloading, staging, installation, pipe rollers, earthwork, site power, diesel fuel, fittings for connection work, installation of 3 10-gauge insulated tracer wires and all incidental work, complete in place.	LF	382		
1.24	Arroyo Crossing 8 - Horizontal Directional Drill (HDD), 14-inch HDPE pipe, Station 194+04 to Station 197+02 (298 feet); including: all work associated with the HDD work, restrained transition couplings, all fittings and appurtenances, mud disposal, unloading, staging, installation, pipe rollers, earthwork, site power, diesel fuel, fittings for connection work, installation of 3 10-gauge insulated tracer wires and all incidental work, complete in place.	LF	298		
1.25	County-to-District Connection Vault - Water Master Meter: All work associated with the installation of the Water meter, all fittings and appurtenances, trenching, backfilling, compaction, and all incidental work. See Sheet W-218 and W-510.	LS	1		
1.26	Revegetative Seeding of all areas scheduled in the Construction Notes on Sheet G-002, including: all work, all appurtenances and incidental work for all open-cut trenching, complete in place.	LF	15,605		
Bid Lot 2: Water Transmission Line #2 (Sheets: W-220 to W-222)					
2.01	Remove 8" Cap and Connect to waterlines extension from the District's Master Meter Flow Control Valve Vault, Including All materials. All work associated with the connection, all fittings and appurtenances, trenching, backfilling, compaction. Connection at Existing EAWSD Meter. See Sheet W-220.	LS	1		
2.02	8-inch Polyvinyl Chloride Pipe, including: pipe, all fittings, restraint devices, installation in trench, wrapping of metallic fitting components for corrosion protection, and all incidental work, complete in place.	LF	2,354		
2.03	Trenching for 8-inch water transmission line for limits shown on Drawings, including: trenching, backfill, compaction, shoring, riprap, all associated appurtenances, and incidental work, complete in place. Excluding HDD Pits	LF	2,354		

2.04	Rock Excavation for waterlines; include removal and disposal of unsuitable backfill material, and supply and hauling of imported backfill material. Does not include placement and compaction of backfill.	LF	589		
2.05	Pressure testing, flushing, and disinfection of all waterlines, including: all temporary piping connections, hauling or pumping of water as needed, all incidental work to complete the work, and bacteriological testing costs.	LF	2,972		
2.06	Pipe Detection System and Pipe Markers, including: underground cable tracing equipment, identification tape, tracer wire and terminal boxes, pipe markers, field testing of tracer wire, install tracer wire and identification tape continuously in trench over all pipe and valves, and all incidental work, complete in place. Excludes tracing wire in horizontal directional drills.	LF	2,354		
2.07	8-inch Buried Valves, including fittings, external restraint devices and valve box, complete in place.	EA	2		
2.08	1-inch, 2-inch and 3-inch Combination Air Valve Stations, including: precast manhole vault, piping, insulated wraps, all appurtenances, and all incidental work, complete in place.	EA	6		
2.09	Horizontal Directional Drill (HDD), 8-inch HDPE pipe, Station 29+52 to Station 30+20 (68 feet); including: all work associated with the HDD work, restrained transition couplings, all fittings and appurtenances, mud disposal, unloading, staging, installation, pipe rollers, earthwork, site power, diesel fuel, fittings for connection work, installation of 3 10-gauge insulated tracer wires and all incidental work, complete in place.	LF	68		
2.10	Horizontal Directional Drill (HDD), 8-inch HDPE pipe, Station 31+70 to Station 35+80 (410 feet): including: all work associated with the HDD work, restrained transition couplings, all fittings and appurtenances, mud disposal, unloading, staging, installation, pipe rollers, earthwork, site power, diesel fuel, fittings for connection work, installation of 3 10-gauge insulated tracer wires and all incidental work, complete in place.	LF	410		

2.11	Horizontal Directional Drill (HDD), 8-inch HDPE pipe, Station 36+00 to Station 37+40 (140 feet); including: all work associated with the HDD work, restrained transition couplings, all fittings and appurtenances, mud disposal, unloading, staging, installation, pipe rollers, earthwork, site power, diesel fuel, fittings for connection work, installation of 3 10-gauge insulated tracer wires and all incidental work, complete in place.	LF	140		
2.12	HDD - Pull head rental fee	LS	1		
2.13	Pair of HDD pits, to include earthwork, stabilization and shoring.	EA	3		
2.14	Revegetative Seeding of all areas scheduled in the Construction Notes on Sheet G-002, including: all work, all appurtenances and incidental work for all open-cut trenching, complete in place.	EA	2,354		
Bid Lot 3: Water Transmission Line #3 (Sheets W-223 to W-238)					
3.01	6-inch Polyvinyl Chloride Pipe, including: pipe, all fittings, restraint devices, installation in trench, wrapping of metallic fitting components for corrosion protection, and all incidental work, complete in place.	LF	569		
3.02	8-inch Polyvinyl Chloride Stubout Pipes, including: pipe, all fittings, restraint devices, installation in trench, wrapping of metallic fitting components for corrosion protection, and all incidental work, complete in place.	LF	3,995		
3.03	10-inch Polyvinyl Chloride Pipe, including: pipe, all fittings, restraint devices, installation in trench, wrapping of metallic fitting components for corrosion protection, and all incidental work, complete in place.	LF	15,051		
3.04	6-inch Ductile Iron Carrier Pipe for Jack and Bore, Including pipe, all fittings, restraint devices, installation in trench, wrapping of metallic fitting components and ductile iron pipe for corrosion protection, and all incidental work, complete in place.	Not Used	0		
3.05	10-inch Ductile Iron Carrier Pipe for Jack and Bore, Including pipe, all fittings, restraint devices, installation in trench, wrapping of metallic fitting components and ductile iron pipe for corrosion protection, and all incidental work, complete in place.	LF	167		

3.06	Trenching for 6-inch water stubout lines for limits shown on Drawings, including: trenching, backfill, compaction, shoring, riprap, all associated appurtenances, and incidental work, complete in place.	LF	569		
3.07	Trenching for 8-inch water transmission line for limits shown on Drawings, including: trenching, backfill, compaction, shoring, riprap, all associated appurtenances, and incidental work, complete in place.	LF	3,995		
3.08	Trenching for 10-inch water transmission line for limits shown on Drawings, including: trenching, backfill, compaction, shoring, riprap, all associated appurtenances, and incidental work, complete in place.	LF	15,148		
3.09	Rock Excavation for waterlines; include removal and disposal of unsuitable backfill material, and supply and hauling of imported backfill material. Does not include placement and compaction of backfill.	LF	1,000		
3.10	Pressure testing, flushing, and disinfection of all waterlines, including: all temporary piping connections, hauling or pumping of water as needed, all incidental work to complete the work, and bacteriological and radionuclides testing costs.	LF	19,782		
3.11	Pipe Detection System and Pipe Markers, including: underground cable tracing equipment, identification tape, tracer wire and terminal boxes, pipe markers, field testing of tracer wire, install tracer wire and identification tape continuously in trench over all pipe and valves, and all incidental work, complete in place. Includes tracing wire in jack and bores	LF	19,782		
3.12	6-inch Buried Valves, including fittings, external restraint devices and valve box, complete in place.	EA	10		
3.13	8-inch Buried Valves, including fittings, external restraint devices and valve box, complete in place.	EA	3		
3.14	10-inch Buried Valves, including fittings, external restraint devices and valve box, complete in place.	EA	14		
3.15	1-inch, 2-inch and 3-inch Combination Air Valve Stations, including: precast manhole vault, piping, insulated wraps, all appurtenances, and all incidental work, complete in place.	EA	6		

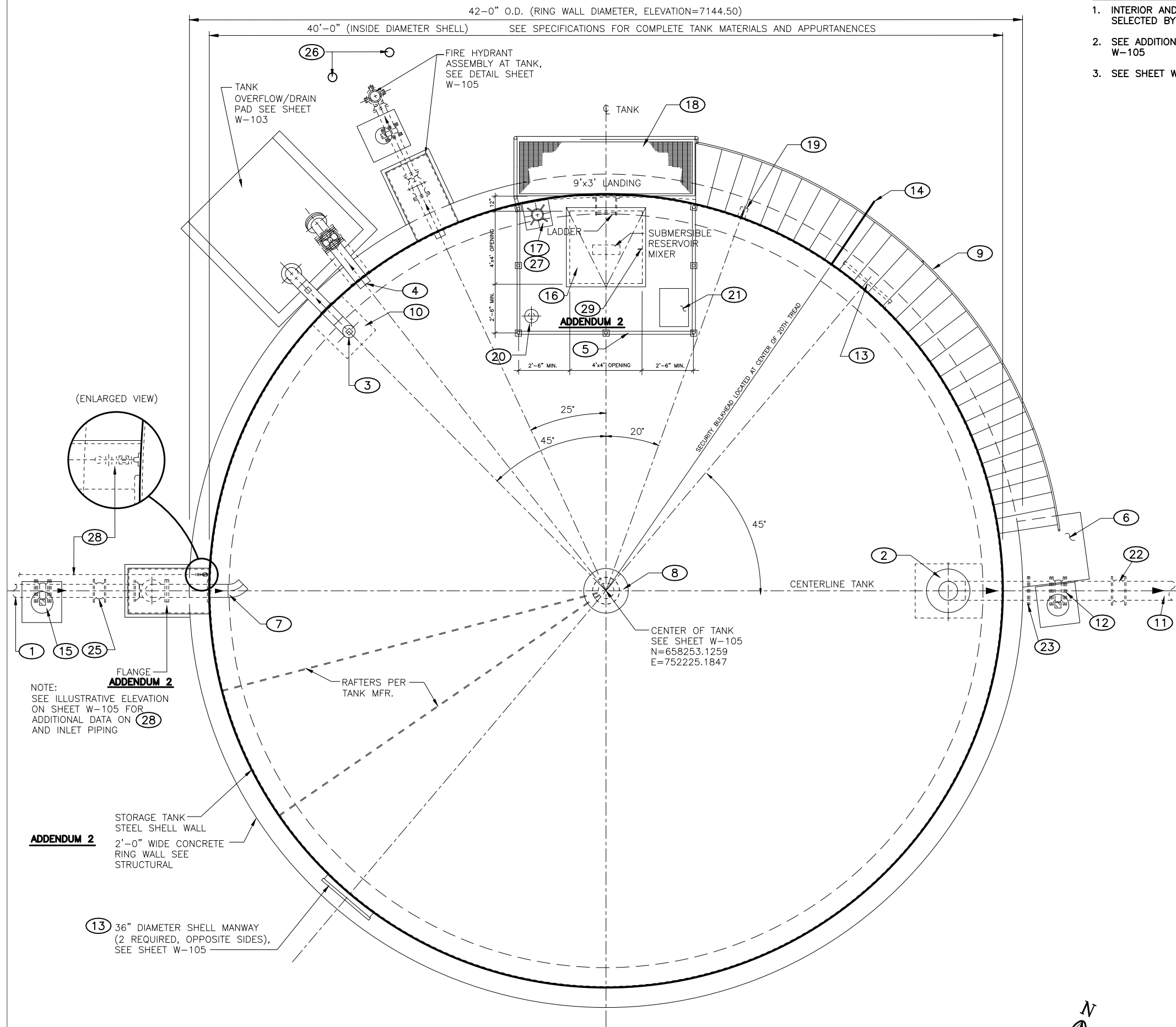
3.16	Fire Hydrant Assembly, including hydrant, gate valve and valve box, piping, fittings, external restraint devices, all appurtenances, and all incidental work, complete in place.	EA	24		
3.17	Residential water service connection and meter box, including saddle tap, corporation stop, service line, meter yoke and tubing, and all associated appurtenances, and all incidental work, complete in place for properties adjacent to the waterline.	EA	17		
3.18	Horizontal Directional Drilling under Old Las Vegas Highway for residential water service connections, see sheet W-513.	LF	1,010		
3.19	Jack and bore underneath Old Las Vegas HWY For 10" Waterline (18" CASING) Including: Materials, Bore pits, Complete in Place, Excluding Carrier pipe. See sheet W-232	LF	70		
3.20	Jack and bore underneath Old Las Vegas HWY For 6" Waterline Stubouts, Complete in Place, Excluding Carrier pipe.	Not Used	0		
3.21	Open-Cut Trench through the Arroyo For 10" Waterline (18" CASING) Including: Materials, bore pits, Rip-Rap, Flowable lean Backfill, Complete in Place, Excluding Carrier pipe. See Sheet W-223	LF	97		
3.22	10" waterline offset around culvert on Old Las Vegas HWY including flowable lean backfill. See Sheet W-235.	LS	1		
3.23	PRV Station, Complete In Place	LS	1		
3.24	Revegetative Seeding of all areas scheduled in the Construction Notes on Sheet G-002, including: all work, all appurtenances and incidental work for all open-cut trenching, complete in place.	LF	19,712		
Bid Lot 4: Hondo 2 Fire Storage Tank					
4.01	157,000 Gallon Ground Steel Tank, complete in place. Including tank disinfection, area sitework, yard piping, tank engineered fill and ring wall foundation and asphalt base, access stairway, overflow structure, rip-rap, retention pond and appurtenances and tank foundation.	LS	1		
4.02	Tank Mixer and Davit Crane, Complete in Place	LS	1		
4.03	Altitude Control Valve Vault. Include control valve, piping, valve vault structure, excavation and backfill, all appurtenances, and incidental work, complete in place.	LS	1		
4.04	Fire Hydrant assembly at Tank	EA	1		

4.05	8" Isolation gate valve before and 12" Isolation gate valve after storage tank including, fittings, external restraint devices, and valve boxes, complete in place.	LS	1		
Bid Lot 5: Hondo 2 Pump Station and Yard Piping					
5.01	Construct Pump station building with concrete masonry unit walls with a metal truss roof and roofing system, including: foundation requirements, subgrade preparation, fill material, structural work, pump skid system, discharge hydropneumatic tank assembly, piping systems, gantry crane, architectural work and features, HVAC and plumbing work, coating systems, all appurtenances, including riprap swale, and all incidental work, complete in place.	LS	1		
5.02	Site Work for Pump Station. Include clearing and grubbing, all grading and drainage work, retention pond, subsurface drain, gravel surfaces, drive pad, sidewalk, removal of existing pavement and or foundations, tree removal, removal of containers, removal of all other material located on site, all appurtenances, and all incidental work, complete in place.	LS	1		
5.03	Yard Piping for Pump Station and Tank Site. Construct all piping work from the altitude valve vault to the meter vault, including connection to and from the Tank and connection to the fire station, including: trenching, backfill, compaction, pipe, fittings, fire hydrant assembly, isolation valves, restraint devices, installation in trench, all appurtenances, and all incidental work, complete in place.	LS	1		
5.04	Meter Vault. Include meter and transmitter, piping, fittings, vault structure, excavation and backfill, all appurtenances and incidental work, Complete in Place.	LS	1		
5.05	Electrical Power, Diesel Engine Generator, Controls and Instrumentation associated with the Tank and Pump Station. Coordinate with PNM for construction of extension of underground primary electrical service.	LS	1		
Bid Lot 6: Other Project Construction Requirements					
6.01	Mobilization, Insurance, and Bonds.	LOT	1		
6.02	Demobilization and Submittal of All Closeout Documents.	LOT	1		
6.03	Traffic Control	LS	1		

6.04	Prepare and execute Storm Water Pollution Prevention Plan	LS	1		
6.05	Construction Staking by New Mexico Registered Surveyor and	LS	1		
6.06	Relocation of Underground Utilities Allowance	ALLOW	1	\$300,000.00	\$300,000.00
6.07	Testing Allowance	ALLOW	1	\$125,000.00	\$125,000.00
6.08	Electrical Service Allowance	ALLOW	1	\$30,000.00	\$30,000.00
6.09	Pre-Authorized Changes During Construction Allowance	ALLOW	1	\$150,000.00	\$150,000.00
6.10	Water Meter Allowance	ALLOW	1	\$6,800.00	\$6,800.00

Additive Alternative 1:					
1	Jack and bore underneath Old Las Vegas HWY For 6" Waterline Stubouts, Complete in Place, Excluding Carrier pipe.	LF	930		
2	6-inch Polyvinyl Chloride Pipe, including: pipe, all fittings, restraint devices, installation in trench, wrapping of metallic fitting components for corrosion protection, and all incidental work, complete in place.	LF	741		
3	6-inch Ductile Iron Carrier Pipe for Jack and Bore, Including pipe, all fittings, restraint devices, installation in trench, wrapping of metallic fitting components and ductile iron pipe for corrosion protection, and all incidental work, complete in place.	LF	1050		
4	Pressure testing, flushing, and disinfection of all waterlines, including: all temporary piping connections, hauling or pumping of water as needed, all incidental work to complete the work, and bacteriological testing costs.	LF	1791		

5	Pipe Detection System and Pipe Markers, including: underground cable tracing equipment, identification tape, tracer wire and terminal boxes, pipe markers, field testing of tracer wire, install tracer wire and identification tape continuously in trench over all pipe and valves, and all incidental work, complete in place. Includes tracing wire in jack and bores	LF	1791		
6	6-inch Buried Valves, including fittings, external restraint devices and valve box, complete in place.	EA	24		
7	Fire Hydrant Assembly, including hydrant, gate valve and valve box, piping, fittings, external restraint devices, all appurtenances, and all incidental work, complete in place.	EA	9		



GENERAL NOTES

1. INTERIOR AND EXTERIOR COATINGS PER SPECIFICATIONS, COLOR TO BE SELECTED BY THE OWNER.
2. SEE ADDITIONAL FIRE STORAGE TANK CONSTRUCTION NOTES – SEE SHEET W-105
3. SEE SHEET W-001 FOR ORIENTATION AND YARD PIPING LAYOUT

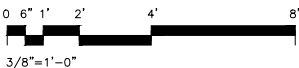
KEYED NOTES:

- 1 8" INLET PIPE SEE ILLUSTRATIVE SECTION SHEET W-105
- 2 12" SUCTION PIPE TO BOOSTER STATION. SEE ILLUSTRATIVE SECTION SHEET W-105
- 3 8" TANK OVERFLOW PIPE SEE DETAILS SHEETS W-103
- 4 8" TANK DRAIN LINE & GV.
- 5 TOP HATCH W/ GUARDRAILS SEE SHEET W-105 & W-106
- 6 STAIR LANDING SEE SHEET W-107
- 7 8" STEEL INLET PIPE W/ 45° BEND @ END SEE SHEET W-105
- 8 TANK SECURITY VENT, SEE SHEETS W-105 AND W-106
- 9 SPIRAL STAIR TREAD DETAIL SEE SHEET W-107
- 10 OVERFLOW WEIR BOX SEE SHEET W-105
- 11 12" DIP TO BOOSTER PUMPS **ADDENDUM 2**
- 12 12" GV W/ VALVE BOX

- 13 36" DIA. MANWAY, SEE SHEET W-105 & W-106
- 14 SECURITY BULKHEAD DETAIL SEE SHEET W-107
- 15 8" GV W/ VALVE BOX SEE SHEET W-105
- 16 ALUMINUM ACCESS HATCH, 4'-0"x 4'-0", SINGLE LEAF, SPRING ASSIST, SLAM LOCK W/ PAD LOCK HASP. 4" MINIMUM CURB HEIGHT, 2" COVER OVERLAP OVER CURB, BILCO TYPE SS, OR ENGINEER REVIEWED EQUIVALENT. SHEET W-106 **ADDENDUM 2**
- 17 STEEL BASE PLATE ON ROOF BY TANK MANUFACTURER SET LEVEL TO ACCEPT PEDESTAL BASE BY DAVIT CRANE MANUFACTURER. COORDINATE DIMENSIONS AND MEANS OF FASTENING WITH DAVIT CRANE MANUFACTURER.
- 18 UPPER LANDING, 1-1/2" ALUMINUM GRATING, SERRATED. DETAIL SEE SHEET W-105, W-106 AND W-107.
- 19 SAMPLING STATION, SEE DETAIL ON SHEET W-106
- 20 4" SCHEDULE 40 STEEL FLANGED NOZZLE BY 3" LONG ROOF PENETRATION FOR ELECTRICAL INSTRUMENTATION. SEE INSTRUMENTATION NOZZLE FLANGE DETAIL ON W-106. INSTALL NOZZLE WITH 4" CLASS 150 LB. FLANGE IN TRUE HORIZONTAL PLANE. SEE ELECTRICAL FOR INSTRUMENTATION.
- 21 2'-6" X 1'-6" X 1'-6"H X 1/4" PLATE STEEL BOX BY TANK SUPPLIER WITH HINGED LID AND PAD LOCK HASP FOR SAFETY HARNESS. TACK WELD BOX TO ROOF.
- 22 12" DIP MJ SOLID SLEEVE, RESTRAINED.
- 23 12" FLANGE **ADDENDUM 2**
- 24 NOT USED.
- 25 8" SOLID SLEEVE, RESTRAINED.
- 26 BOLLARD
- 27 PEDESTAL BASE BY DAVIT CRANE MANUFACTURER. SEE SPECIFICATION 41 22 00.
- 28 ALTITUDE VALVE PILOT SENSOR TUBE. 1" TYPE K SOFT TEMPER (BENDABLE) COPPER TUBING. FIELD WRAPPED W/ 20 MIL. PVC PIPE WRAP TAPE FOR CORROSION PROTECTION.
- 29 PROVIDE STAINLESS STEEL HOOK ON INSIDE OF HATCH FRAME TO HOLD END OF MIXER LIFT CHAIN. **ADDENDUM 2**

HONDO 2 FIRE STORAGE TANK – PLAN

REFER TO ILLUSTRATIVE SECTION ON SHEET W-105



MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE
PAYMENT WITHIN 45 DAYS AFTER SUBMISSION
OF AN UNDISPUTED REQUEST FOR PAYMENT

REVISION

SYMBOL	DATE:	BY:

SANTA FE COUNTY

UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

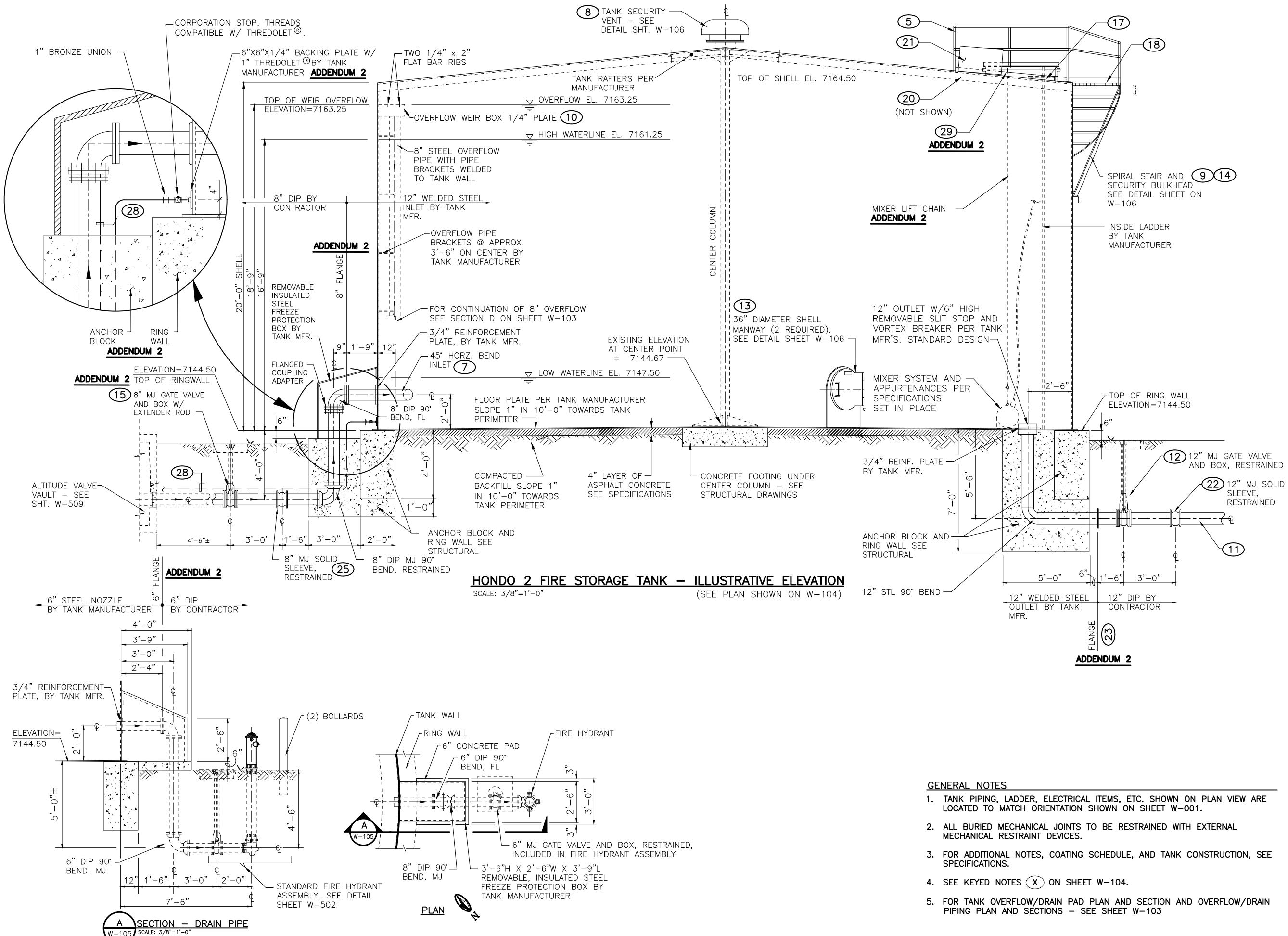
PROJECT NAME:
CANONCITO-ELDORADO WATERLINE

HONDO 2 PUMP STA.
FIRE STORAGE TANK - PLAN

APPROVED BY: REVIEWED BY: S. MORROW

DATE: FEBRUARY 2020 SHEET:

DRAWN BY: C. SPINELLO W-104



HONDO 2 FIRE STORAGE TANK - ILLUSTRATIVE ELEVATION
SCALE: 3/8"=1'-0" (SEE PLAN SHOWN ON W-104)

GENERAL NOTES

1. TANK PIPING, LADDER, ELECTRICAL ITEMS, ETC. SHOWN ON PLAN VIEW ARE LOCATED TO MATCH ORIENTATION SHOWN ON SHEET W-001.
2. ALL BURIED MECHANICAL JOINTS TO BE RESTRAINED WITH EXTERNAL MECHANICAL RESTRAINT DEVICES.
3. FOR ADDITIONAL NOTES, COATING SCHEDULE, AND TANK CONSTRUCTION, SEE SPECIFICATIONS.
4. SEE KEYED NOTES (X) ON SHEET W-104.
5. FOR TANK OVERFLOW/DRAIN PAD PLAN AND SECTION AND OVERFLOW/DRAIN PIPING PLAN AND SECTIONS - SEE SHEET W-103

REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
CANONCITO-ELDORADO WATERLINE

HONDO 2 PUMP STA.
FIRE STORAGE TANK - ELEVATION

APPROVED BY: REVIEWED BY: S. MORROW
DATE: FEBRUARY 2020 SHEET:
DRAWN BY: C. SPINELLO W-105



2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

5 1 1/2" DIAMETER SCHEDULE 40 GUARDRAIL AND POSTS

3'-6" MIN.

(NOT SHOWN) 20

21

12

5" SQUARE x 3/8" THICK STEEL REINFORCING PLATE SEAL WELD TO ROOF

16 ALUMINUM ACCESS HATCH 4'X4' SINGLE LEAF

2'-0" LADDER w/ RUNGS @ 12" ON CENTER AND SAF-T-CLIMB DEVICE OR ENGINEER APPROVED EQUIVALENT. (ALUMINUM NOT ACCEPTABLE)

1-1/8" DIA LADDER RUNGS AT 12" ON CENTER

TYPICAL LADDER SIDE RAIL BAR 2-1/2"x1/2"

3/8"x6"x6" PLATE TYP.

TANK FLOOR

1'-0" MAX

2'-6" 4'-0" 1'-0" 3'-0"

ROOF HATCH

STAIRWAY

27

ADDENDUM 2

5"x1/4" GRATING STOP AND KICK PLATE

18 GRATING/PLATFORM (3'W X 9'L)

TOP OF GRATING ELEVATION = 7164.50

LADDER SAFETY POST:

1. BOLTED TO TOP TWO RUNGS OF LADDER.
2. 42" TELESCOPING TUBULAR EXTENSION.
3. LOCKING AND RELEASE MECHANISMS.
4. STAINLESS STEEL TUBULAR CONSTRUCTION.
5. TYPE 316 STAINLESS STEEL MOUNTING HARDWARE.
6. BILCO LADDERUP SAFETY POST, OR ENGINEER REVIEWED EQUIVALENT.

L3-1/2"x3-1/2"x1/4", 4 REQUIRED, ONE AT EACH CORNER & TWO EQUALLY SPACED

L4"x4"x1/4"x16'-10" COPED FOR DRAINAGE W/ 3"x3/4" SLOTS AT 12" ON CENTER

TANK SHELL

L3"x3"x1/4" @ 6'-0" ON CENTER AT EACH SIDE RAIL, WELD ALL AROUND AT BOTH ENDS

L3-1/2"x3-1/2"x1/4"

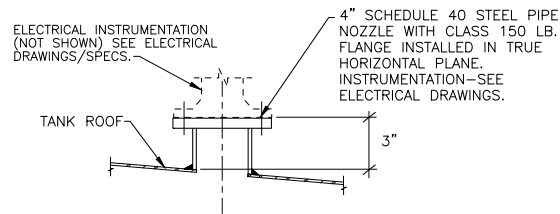
3/16 3/16

L4"x4"x1/4"

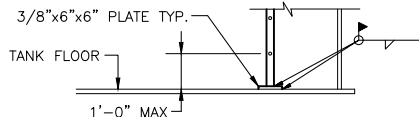
GENERAL NOTES

1. FOR KEYED NOTES (X) SEE SHEET W-104
2. FOR FLOAT & MAGNETIC SWITCH AND BRACKET DETAILS - SEE ELECTRICAL DRAWINGS/SPECS.

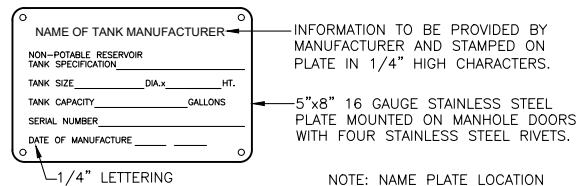
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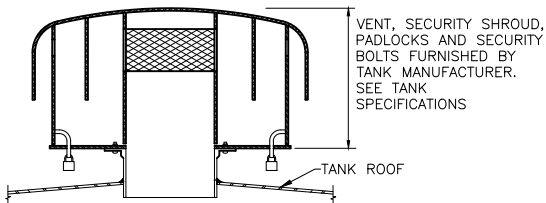
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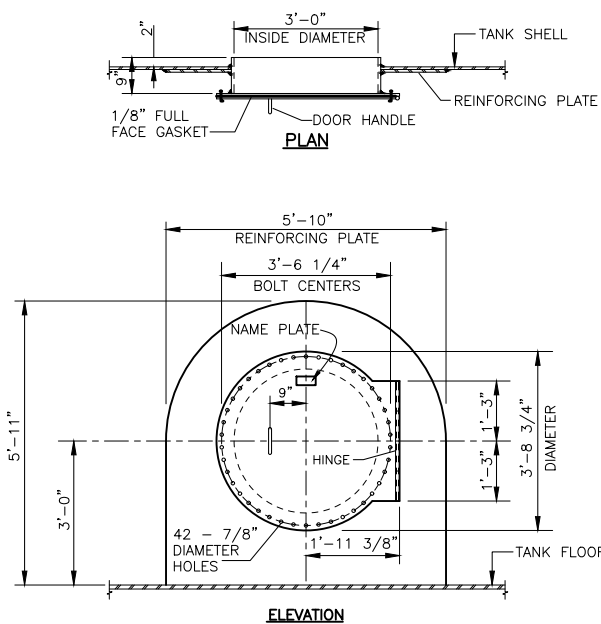
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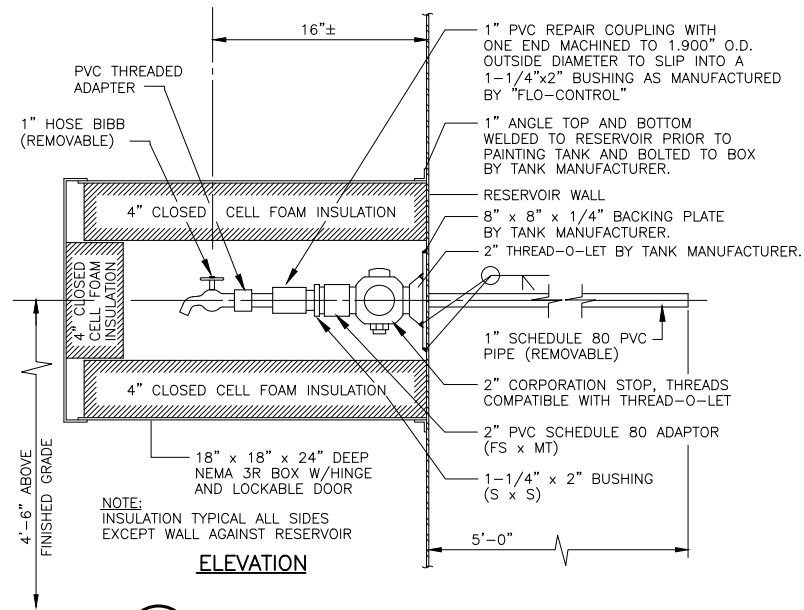
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W-102 SCALE: NONE

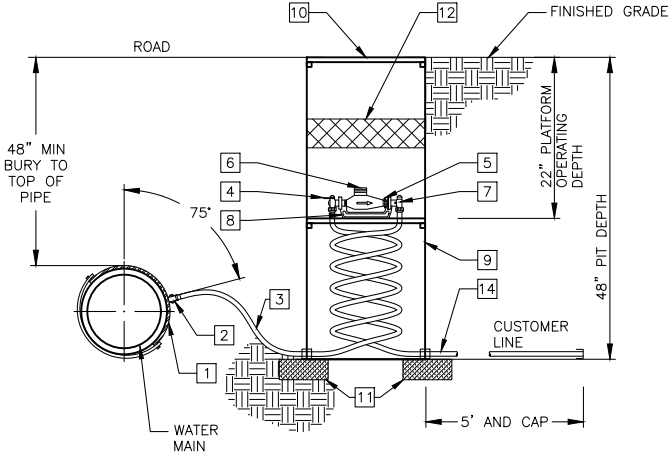
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PROJECT NAME:
CANONCITO-ELDORADO WATERLINE

DATE: FEBRUARY 2020	SHEET :
DRAWN BY: C. J. SPINELLO	W-106

5/8" SINGLE SERVICE DETAIL	
ITEM	ITEM
1. 3/4" SERVICE SADDLE : SEE C.23	8. 3/4" CAST IRON METER YOKE : SEE C.17
2. 3/4" CORPORATION STOP : SEE C.22 (A.W.W.A. TAPERED THREAD)	9. 15" DIAMETER x 48" DEEP THERMAL COIL METER PIT FOR ONE 5/8" X 3/4" METER, 3/4" MIP INLET AND OUTLET CONNECTIONS, FORD METER BOX COMPANY, MUELLER COMPANY, OR ENGINEER REVIEWED EQUIVALENT. ADDENDUM 2
3. 3/4" COPPER TUBING (TYPE "K"): SEE C.13	10. 15" FLAT CAST IRON OR COMPOSITE POLYMER LOCKING LID. ADDENDUM 2
4. 3/4" ANGLE VALVE : SEE C.18	11. BLOCKS - USE AS DIRECTED BY SFC UTILITIES.
5. 3/4" EXPANSION CONNECTION : SEE C.20 (5/8" X 3/4" M.T.R. CONNECTION)	12. 6" THICK CLOSED CELL FOAM INSULATING DISC WITH LIFTING STRAP. ADDENDUM 2
6. 5/8" X 3/4" NEPTUNE T-10 WATER METER W/E-CODER R900/ REGISTER AND RADIO TRANSMITTER	13. NOT USED. ADDENDUM 2
7. 3/4" ANGLE CARTRIDGE W/DUAL CHECK VALVE: SEE C.19	14. 3/4" COPPER TUBING (TYPE "K"): SEE C.13

NOTE: SEE APPROVED CONSTRUCTION PLANS FOR SERVICE LOCATION DETAIL FOR PLACEMENT DIMENSIONS AND DIRECTIONS.
NOTE: DETAILS ON THIS SHEET ARE REFERENCED FROM THE SANTA FE COUNTY WATER UTILITIES WATER AND SEWER CONSTRUCTION STANDARDS AND SPECIFICATIONS AND THE SANTA FE COUNTY 2014 DESIGN GUIDE.
SEE APPENDIX D OF PROJECT MANUAL FOR COUNTY STANDARDS SECTION C - APPROVED MATERIALS LIST.

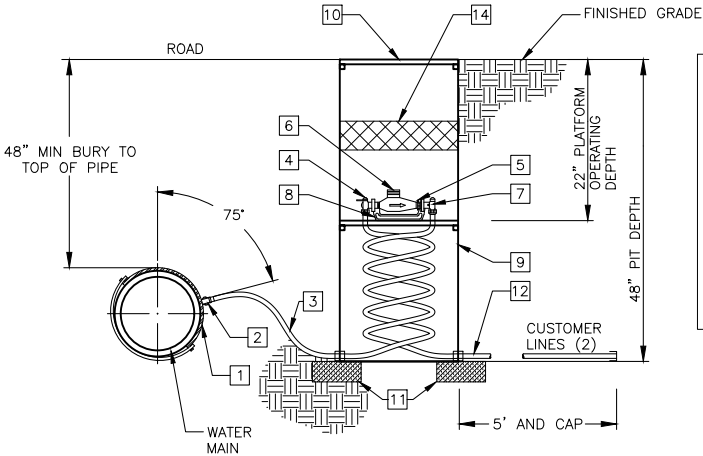


5/8" SINGLE SERVICE DETAIL - FOR INFORMATIONAL PURPOSES - ADDENDUM 2

NOT TO SCALE

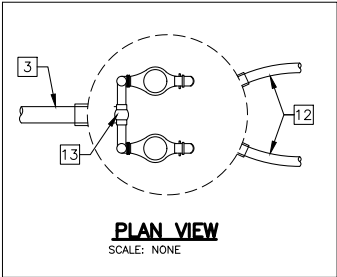
5/8" DOUBLE SERVICE DETAIL	
ITEM	ITEM
1. 1" SERVICE SADDLE : SEE C.23	8. 3/4" CAST IRON METER YOKE (2 EACH) : SEE C.17
2. 1" CORPORATION STOP : SEE C.22 (A.W.W.A. TAPERED THREAD)	9. 15" DIAMETER x 48" DEEP THERMAL COIL TANDEM METER PIT FOR TWO 5/8" X 3/4" METERS, 3/4" MIP INLET AND OUTLET CONNECTIONS, FORD METER BOX COMPANY, MUELLER COMPANY, OR ENGINEER REVIEWED EQUIVALENT. ADDENDUM 2
3. 1" COPPER TUBING (TYPE "K"): SEE C.13	10. 15" FLAT CAST IRON OR COMPOSITE POLYMER LOCKING LID. ADDENDUM 2
4. 3/4" ANGLE VALVE (2 EACH) : SEE C.18	11. BLOCKS - USE AS DIRECTED BY SFC UTILITIES.
5. 3/4" EXPANSION CONNECTION (2 EACH): SEE C.20 (5/8" X 3/4" M.T.R. CONNECTION)	12. 3/4" COPPER TUBING (TYPE "K") (2 EACH): SEE C.13
6. 5/8" X 3/4" NEPTUNE T-10 WATER METER W/E-CODER R900/ REGISTER AND RADIO TRANSMITTER	13. BRANCH PIECE : SEE C.18.1
7. 3/4" ANGLE CARTRIDGE W/DUAL CHECK VALVE: (2 EACH) SEE C.19	14. 6" THICK CLOSED CELL FOAM INSULATING DISC WITH LIFTING STRAP. ADDENDUM 2

NOTE: SEE APPROVED CONSTRUCTION PLANS FOR SERVICE LOCATION DETAIL FOR PLACEMENT DIMENSIONS AND DIRECTIONS.
NOTE: DETAILS ON THIS SHEET ARE REFERENCED FROM THE SANTA FE COUNTY WATER UTILITIES WATER AND SEWER CONSTRUCTION STANDARDS AND SPECIFICATIONS AND THE SANTA FE COUNTY 2014 DESIGN GUIDE.
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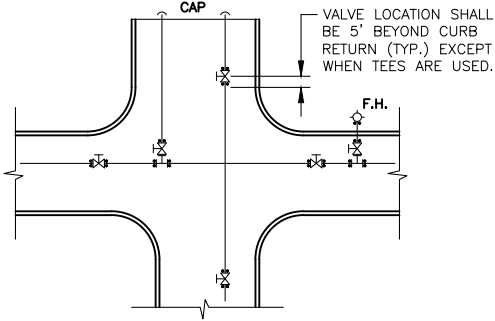
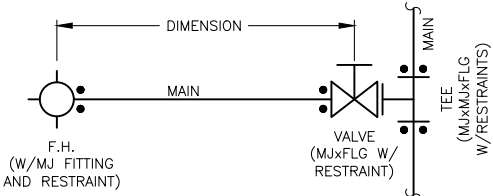


5/8" DOUBLE SERVICE DETAIL - FOR INFORMATIONAL PURPOSES - ADDENDUM 2

NOT TO SCALE

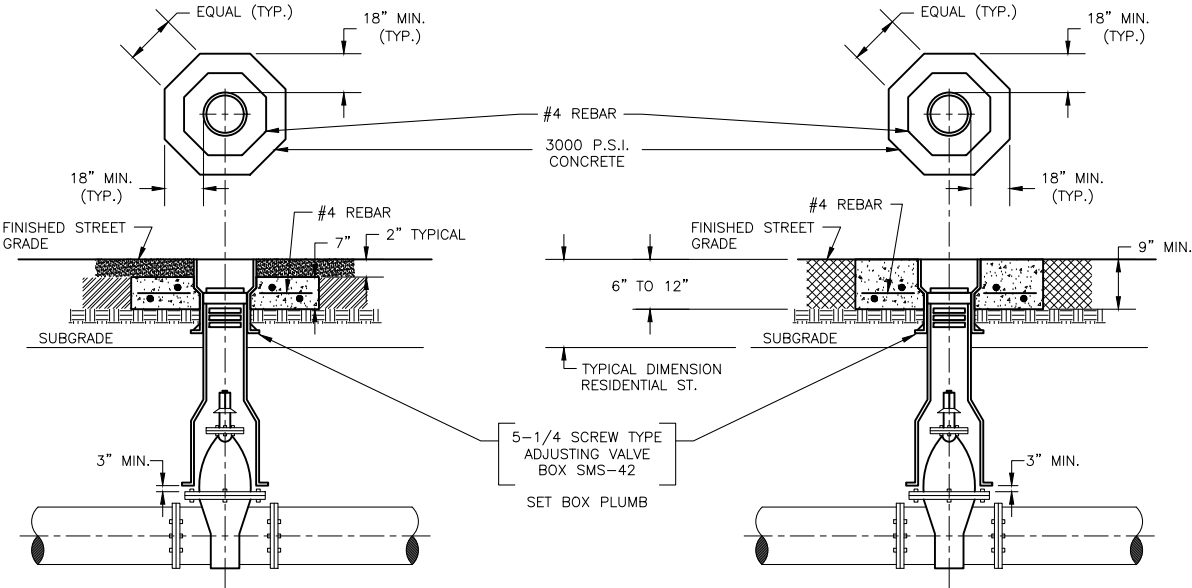


NOTE: SEE APPROVED CONSTRUCTION PLANS FOR HYDRANT LOCATION DETAIL FOR PLACEMENT DIMENSIONS AND DIRECTIONS.



VALVE INSTALLATION

1. VALVES SHALL BE LOCATED AT ROAD INTERSECTION WITH THE INTENT OF ISOLATING THE WATER DISTRIBUTION SYSTEM WITH THE N-1 RULE OR AS APPROVED BY SFC UTILITIES.
2. INLINE VALVES SHALL TYPICALLY BE INSTALLED FIVE (5) FEET BEYOND THE CURB RETURN AS SHOWN IN THE DETAIL AND CONSIST OF MECHANICAL JOINT FITTINGS WITH RESTRAINTS EXCEPT WHEN USING TEES, WHICH SHALL HAVE MECHANICAL JOINT X FLANGE FITTINGS.
3. VALVES ON FIRE HYDRANT LEGS SHALL HAVE MECHANICAL JOINT X FLANGE FITTINGS AND SHALL CONNECT TO FIRE HYDRANT TEE WITH THE FLANGE FITTING AND THE MECHANICAL JOINT FITTING SHALL HAVE A RESTRAINT, AS SHOWN IN THE DETAIL.
4. VALVES ON TEES SHALL HAVE VALVES AND TEES WITH MECHANICAL JOINT X FLANGE FITTINGS. THE MECHANICAL JOINT FITTING SHALL HAVE A RESTRAINT AS SHOWN IN THE DETAIL.



NEW PAVING

SCALE: NONE

EXISTING PAVING

SCALE: NONE

VALVE BOX INSTALLATION:

NEW PAVING

VALVE BOXES SHALL BE INSTALLED AND RAISED TO GRADE IN THE FOLLOWING MANNER FOR NEW PAVING.

1. VALVE BOX SHALL BE INSTALLED OVER VALVE DURING MAIN INSTALLATION. TOP OF VALVE BOX SHALL BE LEFT BELOW THE TOP OF SUB GRADE UNTIL VALVE IS READY TO BE RAISED TO FINAL GRADE.
2. WHEN THE VALVE BOX IS READY TO BE RAISED, AN OCTAGON SHAPE SHALL BE CUT-OUT AROUND THE VALVE BOX FROM THE FIRST PAVING LIFT (AS SHOWN IN DETAIL) THE VALVE BOX SHALL BE RAISED TO THE FINISHED STREET GRADE; THE SOIL AROUND THE VALVE BOX SHALL BE THOROUGHLY COMPACTED IN ACCORDANCE WITH SFC STANDARDS; THE CONCRETE COLLAR (CONSISTING OF 3,000 PSI CONCRETE AND #4 REBAR) SHALL BE POURED FLUSH WITH TOP OF THE FIRST PAVING COURSE (INCLUDING HAND RODDING CONCRETE TO REMOVE VOIDS) AND THE VALVE BOX SHALL BE PROTECTED FROM VEHICULAR TRAFFIC FOR 24 HOURS.

EXISTING PAVING

INSTALL VALVE BOXES PER "NEW PAVING" (ABOVE) WITH THE CONCRETE COLLAR POURED FLUSH WITH THE FINISHED GRADE OF THE EXISTING PAVING WITH A SMOOTH TROWELED FINISH. NOTE: IF EXCAVATION OVER 42" SQUARE IS REQUIRED TO ADJUST VALVE BOX TO GRADE, "NEW PAVING" CONCRETE COLLAR PROCEDURES SHALL BE FOLLOWED AS WELL AS ANY NECESSARY PAVING SHALL BE COMPLETED.

UNPAVED AREAS

IN DIRT OR GRAVEL STREETS, TOP OF VALVE BOX AND CONCRETE COLLAR SHALL BE LEFT 6" BELOW THE STREET GRADE. IN OTHER UNPAVED AREAS, VALVE BOX AND CONCRETE COLLAR SHALL BE LEFT 2" ABOVE FINISHED GRADE OR AS DIRECTED BY SFC UTILITIES.

PROTECTION OF VALVE BOXES:

VALVE BOXES SHALL BE PROTECTED FROM DAMAGE, LOSS AND SHALL NOT BE FILLED WITH DIRT AND DEBRIS. VALVES MUST BE ACCESSIBLE DURING CONSTRUCTION WITH MINIMUM EXCAVATION. VALVES IDENTIFIED BY SFC UTILITIES AS KEY SHUT OFF VALVES SHALL REMAIN AT GRADE AND PROTECTED DURING ALL PHASES OF CONSTRUCTION.

MOLZENCORBIN

2701 Miles Road SE
Albuquerque, New Mexico 87106
505 242 5700 office
505 242 0673 fax
MolzenCorbin.com

NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE
PAYMENT WITHIN 45 DAYS AFTER SUBMISSION
OF AN UNDISPUTED REQUEST FOR PAYMENT

REVISION

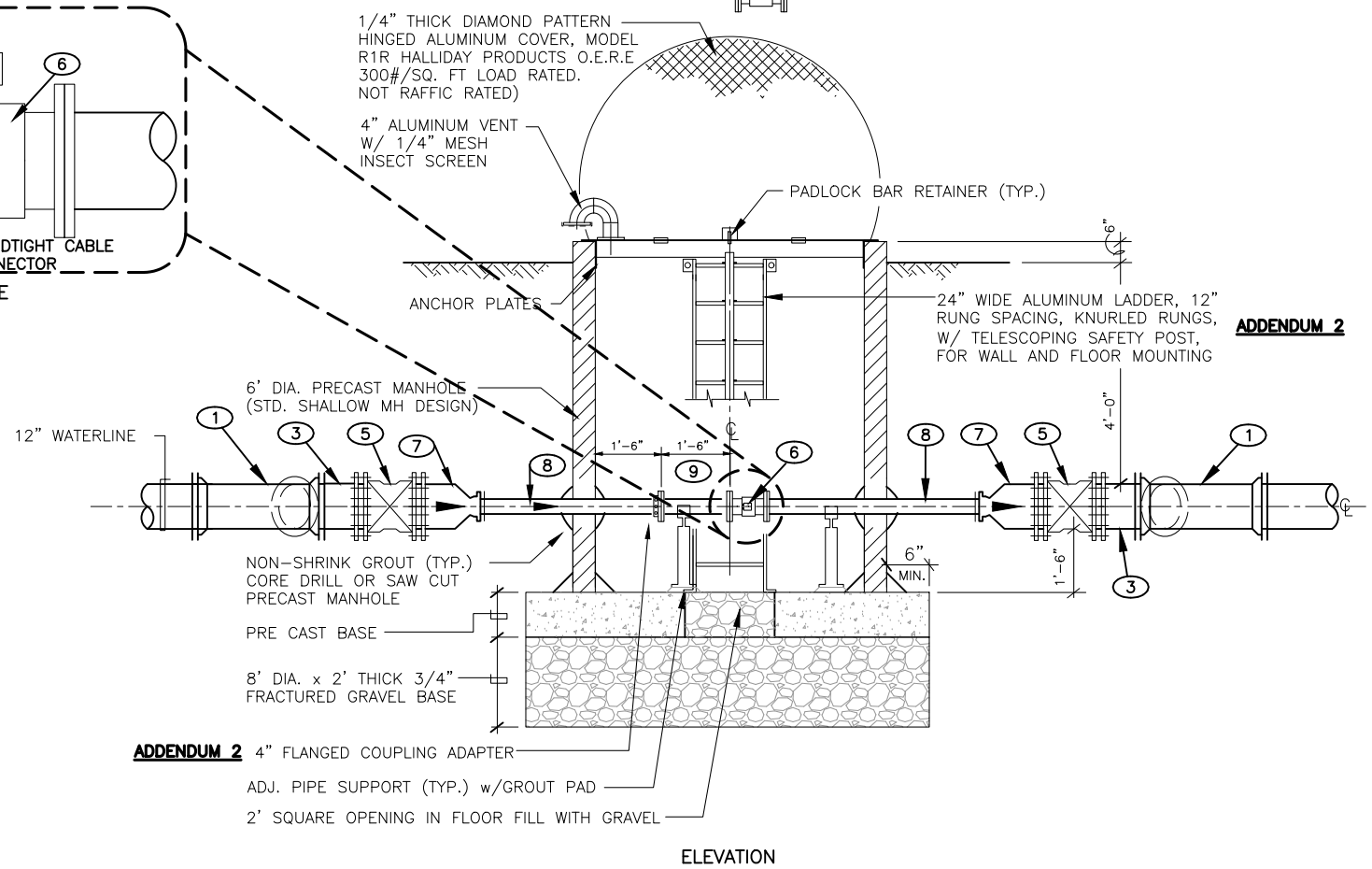
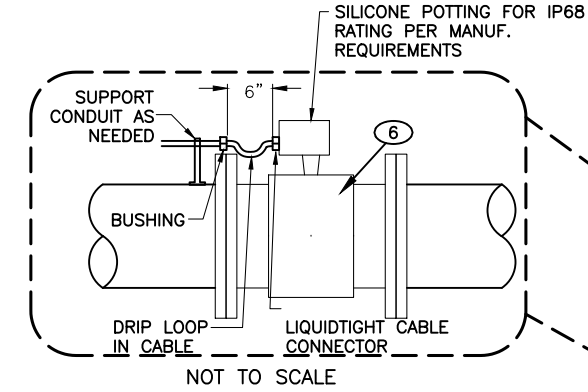
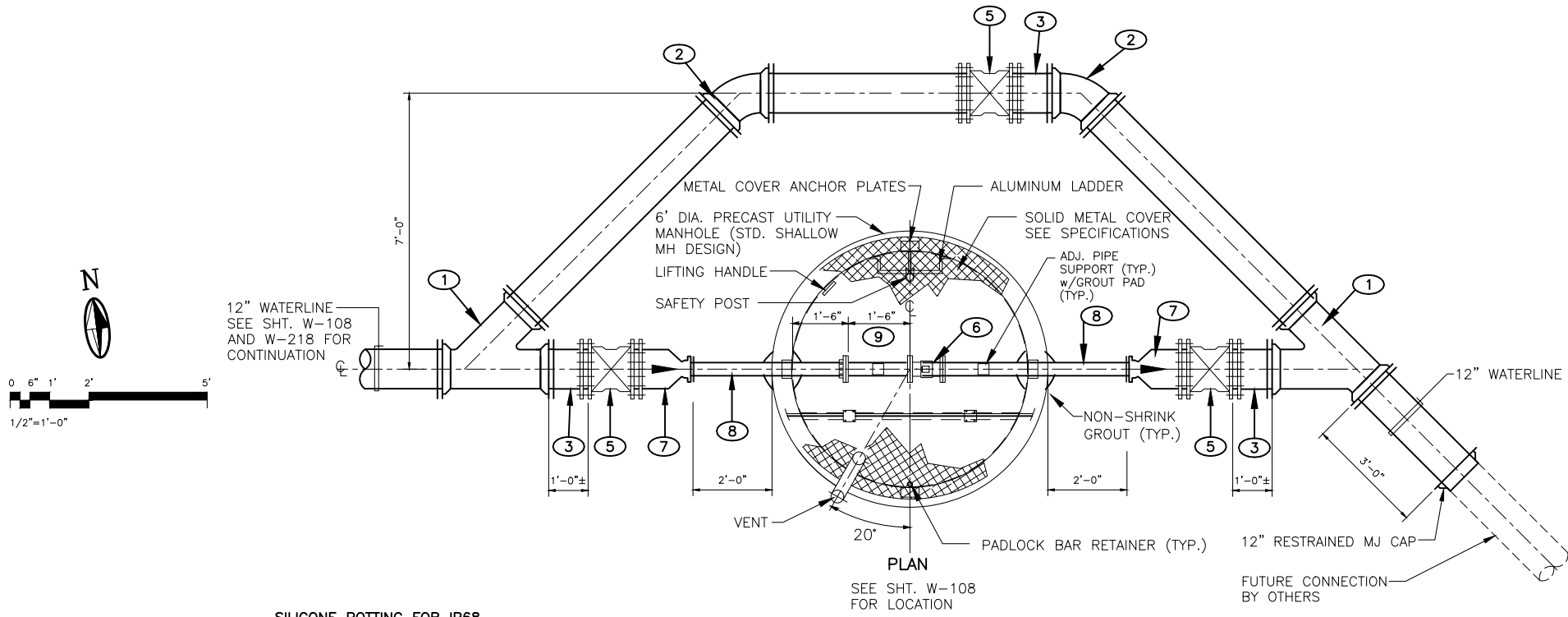
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

PROJECT NAME:
CANONCITO-ELDORADO WATERLINE

STANDARD WATERLINE DETAILS I

APPROVED BY:	REVIEWED BY: S. MORROW	SHEET :
DATE: FEBRUARY 2020		W-501
DRAWN BY: J. BEHREND		



MASTER METER VAULT ASSEMBLY – DETAIL – ADDENDUM 2
SCALE: 1/2"=1'-0"

GENERAL NOTES
1. RESTRAIN ALL BURIED PIPES.

- KEYED NOTES**
- ① 12" MJ WYE
 - ② 12"-45° MJ BEND
 - ③ 12" DIP SPOOL PE×PE **ADDENDUM 2**
 - ④ NOT USED
 - ⑤ 12" GATE VALVE (MJ ENDS) WITH VALVE BOX
 - ⑥ 4" MAG. METER, FL, WITH ABOVE-GROUND PANEL-MOUNTED TRANSMITTER. SEE ELEC. DRAWINGS. **ADDENDUM 2**
 - ⑦ 12"x4" DIP REDUCER PE-MJ SMALL END BELLED. **ADDENDUM 2**
 - ⑧ 4" DIP SPOOL, PE-PE. **ADDENDUM 2**
 - ⑨ 4" DIP SPOOL, FL-FL. **ADDENDUM 2**


MOLZENCORBIN

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NOTICE OF EXTENDED PAYMENT PROVISION:
THIS CONTRACT ALLOWS THE OWNER TO MAKE
PAYMENT WITHIN 45 DAYS AFTER SUBMISSION
OF AN UNDISPUTED REQUEST FOR PAYMENT

REVISION		
SYMBOL	DATE:	BY:

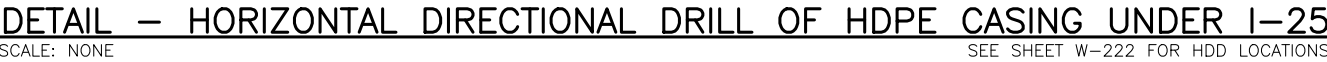
SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507



PROJECT NAME:
CANONCITO-ELDORADO WATERLINE

MASTER METER VAULT DETAIL		
APPROVED BY:	REVIEWED BY: S. MORROW	SHEET : W-510
DATE: FEBRUARY 2020		
DRAWN BY: P. DE LA ROSA		

NOTICE OF EXTENDED PAYMENT PROVISION:
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[illegible]

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507



PROJECT NAME:
CANONCITO-ELDORADO WATERLINE

HORIZONTAL DIRECTIONAL DRILL AND
JACK AND BORE STANDARD DETAIL

APPROVED BY: REVIEWED BY: S. MORROW

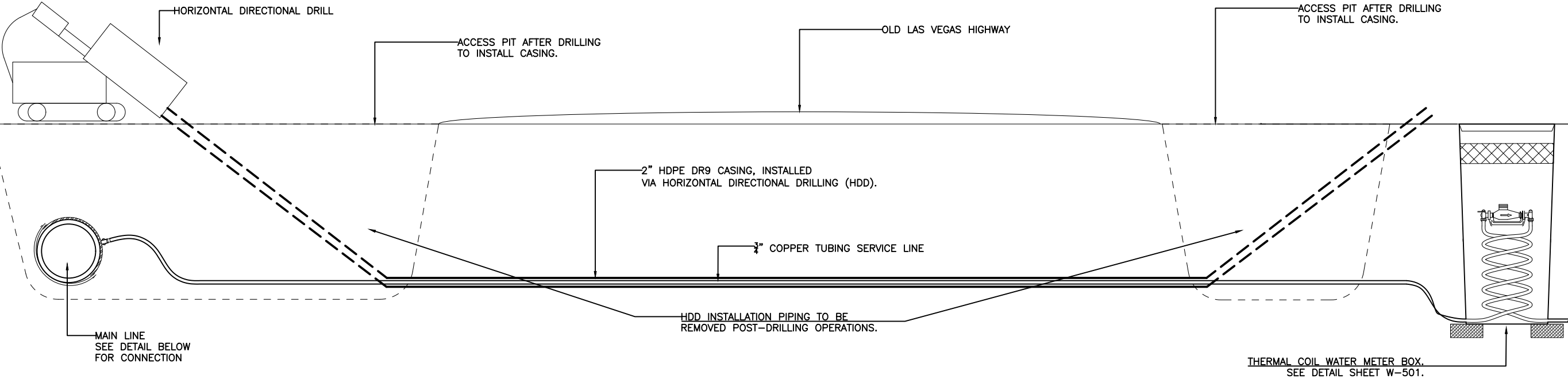
DATE: FEBRUARY 2020 SHEET :

SHEET :

MOLZENCORBIN

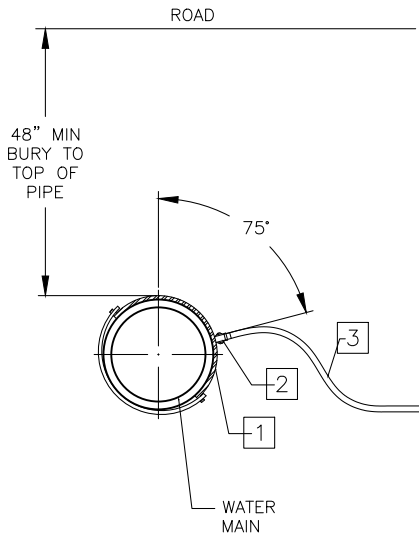
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PROFILE DETAIL – HORIZONTAL DIRECTIONAL DRILL OF HDPE CASING FOR 3/4” SERVICE CONNECTIONS

NOT TO SCALE



5/8" X 3/4" METERED SINGLE SERVICE DETAIL	
ITEM	
1.	3/4" SERVICE SADDLE : SEE C.23
2.	3/4" CORPORATION STOP : SEE C.22 (A.W.W.A. TAPERED THREAD)
3.	3/4" COPPER TUBING (TYPE "K"): SEE C.13


NOTE: SEE APPROVED CONSTRUCTION PLANS FOR SERVICE LOCATION DETAIL FOR PLACEMENT DIMENSIONS AND DIRECTIONS.
NOTE: DETAILS ON THIS SHEET ARE REFERENCED FROM THE SANTA FE COUNTY WATER UTILITIES WATER AND SEWER CONSTRUCTION STANDARDS AND SPECIFICATIONS AND THE SANTA FE COUNTY 2014 DESIGN GUIDE.
SEE APPENDIX D OF PROJECT MANUAL FOR COUNTY STANDARDS SECTION C – APPROVED MATERIALS LIST.

5/8” X 3/4” SINGLE SERVICE WATER MAIN CONNECTION DETAIL

NOT TO SCALE

REVISION		
SYMBOL	DATE:	BY:

SANTA FE COUNTY
UTILITIES DIVISION 424 NM 599, SANTA FE, NM 87507

	PROJECT NAME:
	CANONCITO-ELDORADO WATERLINE

HORIZONTAL DIRECTIONAL DRILL - METERED
SERVICE CONNECTION DETAIL - ADDENDUM 2

APPROVED BY:	REVIEWED BY: S. MORROW
DATE: FEBRUARY 2020	SHEET :
DRAWN BY: A. TRUJILLO	W-513