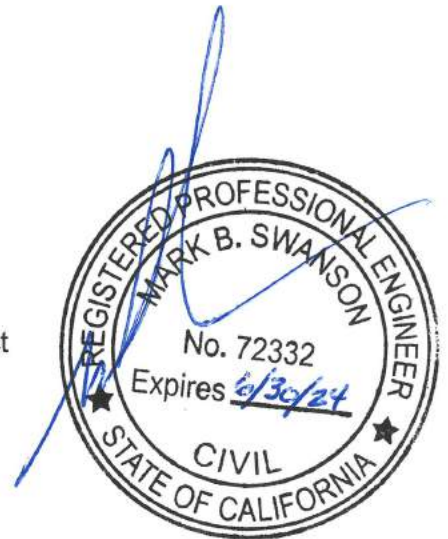


BEAUMONT-CHERRY VALLEY WATER DISTRICT
CONTRACT DOCUMENTS
FOR
PIPELINE RELOCATION PROJECT
for
BEAUMONT MASTER DRAINAGE PLAN LINE 16
 PIPELINE 6A – GRAND AVENUE EAST OF MARTIN LANE
 PIPELINE 7 – P-3040-0027
 PIPELINE 8 – NOBLE STREET TO EL MONTE DRIVE



Beaumont-Cherry Valley Water District
 Attn: **Mark Swanson**
 560 Magnolia Avenue
 Beaumont, CA 92223
mark.swanson@bcvwd.org



Signature:

Mark Swanson, Director of Engineering
 Beaumont-Cherry Valley Water District

KEY DATES (Subject to change at discretion of District):

Issue Date:	July 1, 2022
Bid Opening Date:	July 18, 2022, 3:00 pm
District Project Manager:	Mark Swanson

BEAUMONT-CHERRY VALLEY WATER DISTRICT
MDP LINE 16 WATER PIPELINE RELOCATION PROJECT

Pipeline 6A – Grand Avenue east of Martin Lane
Pipeline 7 – P-3040-0027
Pipeline 8 – Noble Street to El Monte Drive

CONTRACT DOCUMENTS

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REPLACEMENT PIPELINE CONSTRUCTION COST ESTIMATE
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REPLACEMENT PIPELINE CONSTRUCTION COST ESTIMATE
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REPLACEMENT PIPELINE CONSTRUCTION COST ESTIMATE
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SPECIAL REQUIREMENTS

BASIC/TECHNICAL SPECIFICATIONS

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NOTICE INVITING BIDS

NOTICE INVITING BIDS Sealed bids will be received only at Beaumont-Cherry Valley Water District (Owner), 560 Magnolia Avenue, Beaumont, California, 92223 Telephone (951) 845-9581 until **3:00 p.m.** local time on **Monday, July 18, 2022**, for construction of the Work entitled:

MDP LINE 16 WATER PIPELINE RELOCATION PROJECT

Pipeline 6A – Grand Avenue east of Martin Lane

Pipeline 7 – P-3040-0027

Pipeline 8 – Noble Street to El Monte Drive

DESCRIPTION WORK: The Work includes the provision of all equipment, labor, and traffic control, disinfection, and testing to install District furnished pipeline materials and appurtenances necessary to complete the construction of the following, as specified and shown in the Construction Documents:

- **Pipeline 6A** - Approximately 500 Linear Feet (LF) of 8" cement mortar lined Ductile Iron Pipe (DIP) plus various laterals, valves, connections, and appurtenances generally along Grand Avenue, east of Martin Lane.
- **Pipeline 7 (P-3040-0027)** – Approximately 2,500 LF of 12" cement mortar lined DIP plus various laterals, valves, connections, and appurtenances along Grand Avenue, from Jonathan Avenue east to Bellflower Avenue.
- **Pipeline 8** – Approximately 900 LF of 8" cement mortar lined DIP plus various laterals, valves, connections, and appurtenances generally along Grand Avenue, from Noble Street east to El Monte Drive.

Bids received after the Bid Deadline will be returned unopened. Bidders assume all risk of untimely delivery for bids mailed, or otherwise not personally delivered during normal District work hours. The notation by the District of time and date of bid receipt, shall be conclusive.

The site of work is located in the community of Cherry Valley, County of Riverside, California.

COMPLETION OF WORK. The work shall be performed by a single contractor under a single contract. All work must be completed within **ninety (90)** calendar days from Date of Award.

OBTAINING CONTRACT DOCUMENTS. A PDF copy of the complete bid package is available on the District Website at www.BCVWD.org. Alternatively, a copy of the complete bid package is available upon request from the District's Engineering Department. A charge of \$10.00 will be made for each hard copy of each bid package requested.

OPENING OF BIDS. Bids will be publicly opened and read aloud at the place and time stated above. Bidders are invited to be present. Bidders may examine the Contract Documents at Beaumont-Cherry Valley Water District, 560 Magnolia Ave., Beaumont, California, 92223.

PERIOD FOR AWARD. If Owner elects to award a contract for the Work, the award will be made within thirty (30) calendar days from the date of bid opening. No bidder may withdraw a proposal for this period. Bidders shall assume full responsibility to honor their bid price during this period.

WAGE RATES. The Director of the Department of Industrial Relations has ascertained the general prevailing rate of per diem wages and the general rate of holiday and over-time work in the locality in which the work is to be performed for each craft or type of workmen needed to execute the Contract or Work as hereinafter set forth (see Labor Code 1770 et.seq.). Copies of rates are on file at the office of the Owner, which copies shall be made available to any interested party on request. The successful Bidder shall post a copy of such determinations at each job site. Attention is called to the fact that not less than the minimum salaries and all Contractors and Subcontractors shall pay wages on this Project.

LICENSING REQUIREMENTS. Bidders shall be licensed in accordance with provisions of Chapter 9, Division 3, of the Business and Professional Code of the State of California on the date and time of submittal of the bid documents and shall maintain such license until final acceptance of the work. Required classifications are: Class A and/or General Engineering; Class C-34, Pipeline Contractor. Bidders shall have verifiable experience in similar work. Bidders and their sub-contractors shall also be registered to perform public work pursuant to Section 4104 of the public contract code with the State of California, Department of Industrial Relations.

The District cannot award a public works contract to any contractor or subcontractor whose company appears on the ineligible contractor's list published by the Labor Commission, per Labor Code, Section 1777.1.

PROJECT ADMINISTRATION. All questions relative to this project prior to the opening of bids shall be directed to:

Mark Swanson
Beaumont-Cherry Valley Water District
560 Magnolia Avenue
Beaumont, CA 92223
Telephone: (951) 845-9581
Fax: (951) 845-0159

The Owner reserves the right to reject any or all Bids, to waive any informality or irregularity in any Bid and to make awards in the interest of the Owner, including award to other than the lowest bidder. The Owner reserves the right to have performed the entire Work defined by the Contract Documents or such parts of said Work as the Owner may elect, to combine various alternative bids and bid items within a Bid, and to accept or reject one or more separately scheduled bid items within a Bid. The Owner further reserves the right to withhold issuance of the Notice to Proceed, after execution of the Contract Agreement, for the period not to exceed fifteen (15) days after the date the Contract Agreement is executed. No additional payment will be made to the successful Bidder on account of such withholding.

NON-MANDATORY PRE-BID CONFERENCE. A **non-mandatory** pre-bid conference with representatives of prospective bidders will be held at the Beaumont-Cherry Valley Water District offices, 560 Magnolia Avenue, Beaumont, California at 2:00 pm. on July 7, 2022. Prospective bidders are invited to present any relevant questions at the pre-bid conference, but insofar as practicable, questions should be prepared in written form and sent to Beaumont-Cherry Valley Water District so as to arrive not later than July 12, 2022 at 2:00 pm. The District will allow formal Requests for Information to be submitted in written form until July 12, 2022 at 2:00 pm, and the District will formally respond to written RFIs by July 14, 2022 at 5:00 pm.

INSTRUCTIONS TO BIDDERS

GENERAL. Sealed bids will be received only at Beaumont-Cherry Valley Water District (Owner), 560 Magnolia Avenue, Beaumont, California, 92223, Telephone (951) 845-9581 for the construction of the Work entitled:

MDP LINE 16 WATER PIPELINE RELOCATION PROJECT
Pipeline 6A – Grand Avenue east of Martin Lane
Pipeline 7 – P-3040-0027
Pipeline 8 – Noble Street to El Monte Drive

FORM OF PROPOSAL. Each proposal shall be enclosed in a sealed envelope bearing the name of the bidder and name of the project. Bidders must comply with and agree to all instructions and requirements in the Notice Inviting Bids and the Instructions to Bidders, including post-bidding procedures.

DELIVERY OF PROPOSAL. The bid proposal shall be delivered by the time and to the place stipulated in the Notice Inviting Bids. It is the bidder's sole responsibility to see that his proposal is received in proper time. Any proposal received after the scheduled closing time for receipt of proposals will be returned to the bidder unopened.

WITHDRAWAL OF PROPOSAL. The proposal may be withdrawn by the bidder by means of a written request, signed by the bidder or his properly authorized representative. Such written request must be delivered to the place stipulated in the Notice Inviting Bids for receipt of proposals prior to the scheduled closing time for receipt of proposals.

OPENING OF PROPOSALS. The proposals will be publicly opened and read at the time and place stipulated in the Notice Inviting Bids.

MODIFICATIONS AND ALTERNATIVE PROPOSALS. Unauthorized conditions, limitations, or provisos attached to a proposal will render it informal and may cause its rejection. The completed proposal forms shall be without interlineations, alterations, or erasures. Alternative proposals will not be considered unless called for. Oral, telegraphic, or telephone proposals or modifications will not be considered.

DISCREPANCIES IN PROPOSALS. In the event there is more than one bid item in a bidding schedule, the bidder shall furnish a price for all bid items in the schedule, and failure to do so will render the proposal incomplete and may cause its rejection. In the event there are unit price bid items in a bidding schedule and the "amount" indicated for a unit price bid item does not equal the product of the unit price and quantity, the unit price shall govern and the amount will be corrected accordingly. In the event there is more than one bid item in a bidding schedule and the total indicated for the schedule does not agree with the sum of the prices bid on the individual items, the prices bid on the individual items shall govern and the total for the schedule will be corrected accordingly.

CHANGES IN CONTRACT DOCUMENTS. Changes to Contract Documents, Plans and Specifications will be made by written addendum only. Oral statements by the Owner or Engineer are not changes to the project and shall not be the basis for preparing a bid.

BIDDER'S EXAMINATION OF SITE. Before submitting a proposal, the bidder shall carefully examine the Plans, Specifications, and other Contract Documents, and he may visit the site of the work. It shall be the Contractor's responsibility to make all examinations, inspections, field studies and measurements necessary for his own determination of the character of conditions that will be encountered in the work and to fully determine all related cost factors. It will be assumed that the bidder is familiar with existing site conditions and that he has a clear understanding of the requirements of the contract regarding the furnishing of materials and performance of work.

Bidders will have the opportunity to examine the Project Site at the pre-bid conference on July 7, 2022, as discussed in the "Notice Inviting Bids." Bidders may also obtain assistance in inspecting the site by contacting Mark Swanson or Knute Dahlstrom by telephone at (951) 845-9581.

COMPETENCY OF BIDDERS. In selecting the lowest responsible bidder, consideration will be given not only to the financial standing but also to the general competency of the bidder for the performance of the work covered by the proposal. To this end, each proposal shall be supported by a statement of the bidder's experience as of recent date on the form entitled "INFORMATION REQUIRED OF BIDDER," found herein. No proposal for the work will be accepted from a Contractor who is not licensed in accordance with applicable state law at the date of Bid opening.

Each bidder shall submit with the bid a statement setting forth his experience and business standing. Along with this statement each bidder shall include: a list of three similar projects completed within the last 5 years showing total project costs, when constructed, and the names, telephone numbers, and addresses of the owners; and, a summary of the qualifications of the Contractor's proposed Project Manager that highlights this individual's experience and skills relevant to the needs of this project. The Contractor shall not assign to the project an individual to whom the Owner expresses a reasonable objection and shall remove from the project any individual the Owner rejects with or without specific cause.

DISQUALIFICATION OF BIDDERS. More than one proposal from an individual, firm, partnership, corporation, or association under the same or different names will not be considered. Reasonable grounds for believing that any bidder is interested in more than one proposal for the work contemplated will cause the rejection of all proposals in which such bidder is interested. If there is reason for believing that collusion exists among the bidders, all bids will be rejected and none of the participants in such collusion will be considered in future proposals.

"INFORMATION REQUIRED OF BIDDER," found herein, also will be a determining factor in arriving at an award. Any such award will be made within the period specified in the Notice Inviting Bids. Any such award will be for the total of the lump sum bid items, unit price bid items if any, with or without inclusion of any number of additive bid items or options contained in each separate bidding schedule at the Owner's discretion.

EXECUTION OF CONTRACT. The bidder to whom award is made shall execute a written contract with the Owner on the form of agreement provided, shall secure all insurance and shall furnish all certificates and bonds required by the Specifications within 10 working days after receipt of the contract and/or Notice of Award from the Owner. Failure or refusal to enter into a contract as herein provided or to conform to any of the stipulated requirements in connection therewith shall be just cause for annulment of the award and the forfeiture of the proposal guarantee. If the successful bidder refuses or fails to execute the contract, the Owner may award the contract to the second lowest responsible bidder. If the second lowest responsible bidder refuses or fails to execute the contract, the Owner may award the contract to the third lowest responsible bidder. On the failure or refusal of such second or third lowest bidder to execute the contract, such bidders' guarantees shall be likewise forfeited to the Owner.

PAYMENT RETENTION. Notice is hereby given, to the successful bidder who is awarded the contract, of a 10% retention on all partial payments which will be paid to the Contractor thirty-five (35) days after the Notice of Completion is recorded.

ADDENDA. Full consideration shall be given to all Addenda in the preparation of Bids, as Addenda form a part of the Contract Documents. Bidders shall verify the number of Addenda issued, if any, and acknowledge the receipt of all Addenda in the Bid. Failure to so acknowledge may cause the Bid to be rejected. Addenda may modify previously issued Addenda. No Addendum will be issued after the second day preceding the date set for receipt of bids.

AWARD. Bids will be publicly opened and read aloud at BCVWD offices. Award of the Contract or the rejection of Bids will be made within thirty (30) calendar days from the date of bid opening.

- A. Award of a contract, if it be awarded, will be based primarily on the lowest overall cost to the Owner, and will be made to a responsible bidder whose proposal complies with all the requirements prescribed. Evaluation of the bidder's experience and additional information requested on the form "INFORMATION REQUIRED OF BIDDER," found herein, also will be a determining factor in arriving at an award. Any such award will be made within the period specified in the Notice Inviting Bids. Any such award will be for the total of the lump sum bid items, unit price bid items if any, with or without inclusion of any number of additive bid items or options contained in each separate bidding schedule at the Owner's discretion.
- B. By submitting a Bid, each Bidder agrees and consents that the Owner, in determining the successful Bidder and his eligibility for the award, may ascertain and consider the Bidder's experience and facilities, conduct and performance under other contracts, financial condition, reputation in the industry, and other factors which could affect the Bidder's performance of the Work.
- C. After all Contract contingencies are satisfied and the Notice of Award is issued, the successful Bidder shall execute the Contract Agreement within ten (10) days (not including Sundays and holidays) after the date of the Notice of Award. The contract time is hereby established as consecutive working days from the date of receipt of the Notice to Proceed. Bidder shall furnish Proof of Insurance as required herein, and the Contract Agreement shall be executed in the form provided by the Owner.
- D. If a Bidder receiving a Notice of Award fails or refuses to execute the Contract Agreement within the stated time limit or fails or refuses to furnish Proof of Insurance as required herein, the Owner may annul the award and issue an award to the next lowest responsive responsible Bidder or may reject all Bids.
- E. A corporation receiving the award shall furnish evidence of its corporate existence and evidence that the person signing the contract agreement for the corporation is duly authorized to do so.
- F. The Contractor shall start the work within ten (10) calendar days after the date of the Notice to Proceed.

BONDS AND INSURANCE. The successful Bidder shall furnish to the Owner evidence of insurance ensuring the payment of all obligations arising from the Work in accordance with the Contract Documents. Sureties, Insurance, and Bonds shall comply with the requirements in the General Conditions. Bonds and Insurance certificates shall be delivered to the Owner at the time and place the Contract Agreement is executed. Bonds shall conform exactly to the forms included in the Contract Forms and shall be acceptable to the owner and funding agencies.

SEPARATE BID PRICE FOR EXCAVATION SAFETY MEASURES. If it is necessary for the Contractor to perform an excavation of five (5) feet or more in depth to complete this project, then the requirements of Sections 6705 and 6707 of the California Labor Code apply to this Project. Accordingly, each Bidder shall state in the Bid the lump sum bid price for providing shoring, sheeting, bracing, and other safety measures for all excavations five (5) feet or more in depth. Before any Work is commenced, the Contractor shall secure and pay for the excavation permit required by the California Division of Occupational Safety and Health, and shall furnish the Owner with a copy thereof prior to commencing any excavation. The Contractor shall conform to Labor Code Section 6705 by submitting a detailed plan showing the design of shoring, bracing, sloping, or other provisions to be made for worker protection from the hazard of caving ground during the excavation of such trench or trenches or during the pipe installation therein. This plan must be prepared for all trenches five (5) feet or more in depth and submitted to the Owner for record purposes only and not for review or approval prior to excavation. If the plan varies from the shoring system standards established by the Construction Safety orders, the plan shall be prepared by a registered civil or structural Engineer at the Contractor's expense.

The Contract Documents show subsurface conditions or otherwise hidden conditions as they are supposed or believed by the Engineer to exist; but it is not intended or to be inferred that the conditions as shown thereon constitute a representation that such conditions actually exist. Except as otherwise specifically provided in the Contract Documents, the Owner, the Engineer, and their consultants shall not be liable for any loss sustained by the Contractor as a result of any variance to such conditions as shown on the Contract Documents or the actual conditions revealed or otherwise discovered during the progress of the Work.

GEOTECHNICAL INVESTIGATION. Geotechnical investigations at the site of the Work has been performed. The report summarizing these findings can be reviewed at the District's office during normal working hours. The foregoing investigation describes the nature of the material at the locations specified and any conclusions drawn by Bidders therefrom concerning the general nature of soils shall be the Bidder's responsibility. The geotechnical investigations are provided for information only and no claims for extra work or damages will be considered if it is found during construction that the actual soil or material conditions vary from those indicated. Refer also to Article 5.11, "Changed Conditions" of Section 01000, "General Conditions".

QUANTITIES. The amount of work to be done or materials to be furnished under the Contract, as shown in the Bid Documents, are estimates and are not to be taken as an expressed or an implied statement that the actual amount of the work or materials will correspond to the estimate. The District reserves the right to increase or decrease or to entirely eliminate items from the work or materials to be furnished if any such action is found to be desirable or expedient. Bidder is cautioned against the unbalancing of its bid by prorating its overhead only into one or two items when there are a number of items listed in a schedule.

BID FORM

NAME OF BIDDER: _____

The undersigned, hereby declare that we have carefully examined the location of the proposed Work, and have read and examined the Contract Documents, including all plans, specifications, and all addenda, if any, for the following Project:

BEAUMONT-CHERRY VALLEY WATER DISTRICT
MDP LINE 16 WATER PIPELINE RELOCATION PROJECT
Pipeline 6A – Grand Avenue east of Martin Lane
Pipeline 7 – P-3040-0027
Pipeline 8 – Noble Street to El Monte Drive

We hereby propose to furnish all labor, materials, equipment, tools, transportation, and services, and to discharge all duties and obligations necessary and required to perform and complete the Project for the following BASE BID TOTAL BID PRICE:

BASE BID	BID PRICE (IN WRITTEN FORM)	BID PRICE (IN NUMBERS)
BID SCHEDULE I PIPELINE 6A		
BID SCHEDULE II PIPELINE 7		
BID SCHEDULE III PIPELINE 8		
TOTAL BID PRICE (SCHEDULES I - III)		

In case of discrepancy between the written price and the numerical price, the written price shall prevail.

Name of Bidder _____

Signature _____

Name and Title _____

Dated _____

BID SCHEDULE I

MDP LINE 16 WATER PIPELINE RELOCATION PROJECT (PIPELINE 6A)

ITEM NO.	DESCRIPTION OF ITEMS	EST. QUANTITY	UNIT	UNIT PRICE (FIGURES)	TOTAL AMOUNT
101	Furnish project insurance, and project permits (not to exceed two percent (2%) of the Total Bid Price [Bid Schedules I-III]).	1	L.S.		
102	Mobilization / Demobilization including project sanitary facilities, and closeout and cleanup (not to exceed three percent (3%) of Total Bid Price).	1	L.S.		
103	State required line item for California Code Sections 6705 and 6707, excavation safety measures.	1	L.S.		
104	Implement traffic control, in accordance with District prepared traffic control plans including, furnishing all signs, delineators, arrow boards, and flagmen in accordance with said plans.	1	L.S.		
105	Saw cut, remove, and dispose of existing AC paving and base as required prior to trenching, provide temporary asphalt pavement patch as required at end of each day.	510	L.F.		
106	Install District furnished 8" cement mortar lined potable ductile iron pipe, Class 350 to an average depth of 4.25 feet below existing roadway, including installation of restrained joints as shown on Sheet 7 of the Construction Drawings, installation of Contractor furnished backfill material (or native material, if suitable) and compaction per BCVWD Standard Plate 6-1 (36" min cover).	502	L.F.		
107	Install District furnished 1" service saddle, corporation stop, and service lateral piping per BCVWD Standard Plates 6-2 and 6-3. Once testing and disinfection is complete, remove existing meter and install new District furnished meter and connect to new service lateral.	8	EA		
108	Install 2" riser and test plate for disinfection and testing. Remove test plate at end of chlorination and testing process. Remove riser and plug test location.	2	EA		

BID SCHEDULE I (Continued)

ITEM NO.	DESCRIPTION OF ITEMS	EST. QUANTITY	UNIT	UNIT PRICE (FIGURES)	TOTAL AMOUNT
109	Once testing and disinfection is complete and new waterline (Pipeline 6A) is complete, abandon in place the existing waterline and plug severed pipe ends with 3' minimum Class "C" concrete plug.	1	L.S.		
110	Install District furnished valves, fittings, and appurtenances at Pipeline 6A – Station 5+08 per Construction Drawings, Detail "N" on Sheet 7 and BCVWD Standard Plates 2, 6-1, 11-1 and 11-2.	1	L.S.		
111	Install District furnished valves, fittings, and appurtenances at Pipeline 6A – Station 10+10 per Construction Drawings, Detail "O" on Sheet 7 and BCVWD Standard Plates 2, 6-1, 11-1 and 11-2.	1	L.S.		
112	Install District furnished type Jones 3765 wet barrel fire hydrant assembly including piping, valve, and fittings per BCVWD Plate 1.	1	EA		
113	Export of all excavated native material to the District's Noble Creek Recharge Facilities – Phase II, located generally at the northeast corner of Beaumont Avenue and Brookside Avenue.	1	L.S.		
TOTAL BID SCHEDULE I PRICE (Bid Items 101 Through 113)					

BID SCHEDULE II

MDP LINE 16 WATER PIPELINE RELOCATION PROJECT (PIPELINE 7 – P-3040-0027)

ITEM NO.	DESCRIPTION OF ITEMS	EST. QUANTITY	UNIT	UNIT PRICE (FIGURES)	TOTAL AMOUNT
201	Saw cut, remove, and dispose of existing AC paving and base as required prior to trenching, provide temporary asphalt pavement patch as required at end of each day.	2,500	L.F.		
202	Install District furnished 6" cement mortar lined potable ductile iron pipe, Class 350, including installation of restrained joints as shown on Sheets 8-12 of the Construction Plans, installation of Contractor furnished backfill material (or native material, if suitable) and compaction per BCVWD Standard Plate 6-1 (36" min cover).	35	L.F.		
203	Install District furnished 12" cement mortar lined potable ductile iron pipe, Class 350, including installation of restrained joints as shown on Sheets 8-12 of the Construction Drawings, installation of Contractor furnished backfill material (or native material, if suitable) and compaction per BCVWD Standard Plate 6-1 (36" min cover).	2,480	L.F.		
204	Install District furnished 16" cement mortar lined potable ductile iron pipe, Class 350, including installation of restrained joints as shown on Sheets 8-12 of the Construction Drawings, installation of Contractor furnished backfill material (or native material, if suitable) and compaction per BCVWD Standard Plate 6-1 (48" min cover).	85	L.F.		
205	Install District furnished 1" service saddle, corporation stop, and service lateral piping per BCVWD Standard Plates 6-2 and 6-3. Once testing and disinfection is complete, remove existing meter and install new District furnished meter and connect to new service lateral.	18	EA		
206	Install 2" riser and test plate for disinfection and testing. Remove test plate at end of chlorination and testing process. Remove riser and plug test location.	7	EA		

BID SCHEDULE II (Continued)

ITEM NO.	DESCRIPTION OF ITEMS	EST. QUANTITY	UNIT	UNIT PRICE (FIGURES)	TOTAL AMOUNT
207	Once testing and disinfection is complete and new waterline (Pipeline 7) is complete, abandon in place the existing waterline and plug severed pipe ends with 3' minimum Class "C" concrete plug.	1	L.S.		
208	Install District furnished valves, fittings, and appurtenances per Detail "P" on Sheet 8 of the Construction Drawings, and BCVWD Standard Plates 2, 6-1, 11-1 and 11-2.	1	L.S.		
209	Install District furnished valves, fittings, and appurtenances per Detail "Q" on Sheet 8 of the Construction Drawings, and BCVWD Standard Plates 2, 6-1, 11-1 and 11-2.	1	L.S.		
210	Install District furnished valves, fittings, and appurtenances at Pipeline 7 Sta 30+00 per Detail "R" on Sheet 9 of the Construction Drawings, and BCVWD Standard Plates 2, 6-1, 11-1 and 11-2.	1	L.S.		
211	Install District furnished valves, fittings, and appurtenances at Pipeline 7 Sta 30+34± per Detail "S" on Sheet 9 of the Construction Drawings, and BCVWD Standard Plate 6-1.	1	L.S.		
212	Install District furnished valves, fittings, and appurtenances at Pipeline 7 Sta 32+00± per Detail "T" on Sheet 9 of the Construction Drawings and BCVWD Standard Plate 6-1.	1	L.S.		
213	Install District furnished valves, fittings, and appurtenances at Pipeline 7 per Connection Detail "U" on Sheet 10 of the Construction Drawings, and BCVWD Standard Plates 2, 6-1, 11-1, and 11-2.	1	L.S.		
214	Install District furnished valves, fittings, and appurtenances at Pipeline 7 Sta 43+47± per Detail "V" on Sheet 10 of the Construction Drawings, and BCVWD Standard Plate 6-1.	1	L.S.		

BID SCHEDULE II (Continued)

ITEM NO.	DESCRIPTION OF ITEMS	EST. QUANTITY	UNIT	UNIT PRICE (FIGURES)	TOTAL AMOUNT
215	Install District furnished valves, fittings, and appurtenances at Pipeline 7 Sta 43+88± per Detail "W" on Sheet 10 of the Construction Drawings and BCVWD Standard Plate 6-1.	1	L.S.		
216	Install District furnished valves, fittings, and appurtenances at Pipeline 7 Sta 45+54± per Detail "X" on Sheet 10 of the Construction Drawings, and BCVWD Standard Plate 6-1.	1	L.S.		
217	Install District furnished valves, fittings, and appurtenances at Pipeline 7 Sta 50+16 per Detail "Y" on Sheet 11 of the Construction Drawings and BCVWD Standard Plate 6-1.	1	L.S.		
218	Install District furnished valves, fittings, and appurtenances at Pipeline 7 Sta 56+62± per Detail "Z" on Sheet 12 of the Construction Drawings, and BCVWD Standard Plate 6-1.	1	L.S.		
219	Install District furnished valves, fittings, and appurtenances per Detail "AA" on Sheet 12 of the Construction Drawings, and BCVWD Standard Plate 6-1.	1	L.S.		
220	Install District furnished type Jones 3765 wet barrel fire hydrant assembly including piping, valve, and fittings per BCVWD Plate 1.	4	EA		
221	Export of all excavated native material to the District's Noble Creek Recharge Facilities – Phase II, located generally at the northeast corner of Beaumont Avenue and Brookside Avenue.	1	L.S.		
222	Install District Furnished Air Release and Vacuum Valve Assembly at locations shown on the Construction Drawings (for Pipeline 7) per BCVWD Standard Plate 5.	3	EA		

BID SCHEDULE II (Continued)

ITEM NO.	DESCRIPTION OF ITEMS	EST. QUANTITY	UNIT	UNIT PRICE (FIGURES)	TOTAL AMOUNT
223	Install District furnished 4" Blowoff assembly at locations shown on the Construction Drawings (for Pipeline 7) per BCVWD Plate 3-1.	3	EA		
TOTAL BID SCHEDULE II PRICE (Bid Items 201 Through 223)					

BID SCHEDULE III

MDP LINE 16 WATER PIPELINE RELOCATION PROJECT (PIPELINE 8)

ITEM NO.	DESCRIPTION OF ITEMS	EST. QUANTITY	UNIT	UNIT PRICE (FIGURES)	TOTAL AMOUNT
301	Saw cut, remove, and dispose of existing AC paving and base as required prior to trenching, provide temporary asphalt pavement patch as required at end of each day	1,000	L.F.		
302	Install District furnished 8" cement mortar lined potable ductile iron pipe, Class 350, including installation of restrained joints as shown on Sheets 13-14 on the Construction Drawings, installation of Contractor furnished backfill material (or native material, if suitable) and compaction per BCVWD Standard Plate 6-1 (36" min cover).	890	L.F.		
303	Install District furnished 12" cement mortar lined potable ductile iron pipe, Class 350, including installation of restrained joints as shown on Sheets 13-14 on the Construction Drawings, installation of Contractor furnished backfill material (or native material, if suitable) and compaction per BCVWD Standard Plate 6-1 (36" min cover).	85	L.F.		
304	Install District furnished 1" service saddle, corporation stop, and service lateral piping per BCVWD Standard Plates 6-2 and 6-3. Once testing and disinfection is complete, remove existing meter and install new District furnished meter and connect to new service lateral.	11	EA		
305	Install 2" riser and test plate for disinfection and testing. Remove test plate at end of chlorination and testing process. Remove riser and plug test location.	4	EA		
306	Once testing and disinfection is complete and new waterline (Pipeline 8) is complete, abandon in place the existing waterline and plug severed pipe ends with 3' minimum Class "C" concrete plug.	1	L.S.		
307	Install District furnished valves, fittings, and appurtenances at Pipeline 8 Sta 10+00 per Detail "AB" on Sheet 13 of the Construction Drawings, and BCVWD Standard Plate 6-1.	1	L.S.		

BID SCHEDULE III (Continued)

ITEM NO.	DESCRIPTION OF ITEMS	EST. QUANTITY	UNIT	UNIT PRICE (FIGURES)	TOTAL AMOUNT
308	Install District furnished valves, fittings, and appurtenances to connect to existing to 10" Steel Water Main per Detail "AC" on Sheet 13 of the Construction Drawings, and BCVWD Standard Plate 6-1.	1	EA		
309	Install District furnished valves, fittings, and appurtenances to connect to existing to 12" Steel Water Main per Detail "AD" on Sheet 13 of the Construction Drawings, and BCVWD Standard Plate 6-1.	1	EA		
310	Install District furnished valves, fittings, and at Pipeline 8 Sta. 18+81± per Detail "AE" on Sheet 14 of the Construction Drawings, and BCVWD Standard Plate 6-1.	1	EA		
311	Install District furnished type Jones 3765 wet barrel fire hydrant assembly including piping, valve, and fittings per BCVWD Plate 1.	1	EA		
312	Export of all excavated native material to the District's Noble Creek Recharge Facilities – Phase II, located generally at the northeast corner of Beaumont Avenue and Brookside Avenue.	1	L.S.		
313	Install District Furnished Air Release and Vacuum Valve Assembly at locations shown on the Construction Drawings (Pipeline 8 Relocation Plan) per BCVWD Standard Plate 5	1	EA		
TOTAL BID SCHEDULE III PRICE (Bid Items 301 Through 312)					

In case of discrepancy between the unit price and the item cost set forth for a unit basis item, the unit price shall prevail and, shall be utilized as the basis for determining the lowest responsive, responsible bidder. However, if the amount set forth as a unit price is ambiguous, unintelligible, or uncertain for any cause, or is omitted, or is the same amount as the entry in the "Item Cost" column, then the amount set forth in the "Item Cost" column for the item shall prevail and shall be divided by the estimated quantity for the item and the price thus obtained shall be the unit price. Final payment shall be determined by the Engineer from measured quantities of work performed based upon the unit price.

In case of discrepancy between the written price and the numerical price, the written price shall prevail.

The undersigned agrees that this Bid Form constitutes a firm offer to the District for Bid Schedule I which cannot be withdrawn for the number of calendar days indicated in the Notice Inviting Bids from and after the bid opening, or until a Contract for the Work is fully executed by the District. The District reserves the right to award any and all combinations of Bid Schedule I and/or parts thereof.

The Contract duration shall commence on the date stated in the District's Notice to Proceed, and shall be completed by the Contractor in the time specified in the Contract Documents. In no case shall the Contractor commence construction prior to the date stated in the District's Notice to Proceed.

Bidder certifies that it is licensed in accordance with the law providing for the registration of Contractors, License No. _____, Expiration Date _____, class of license _____. If the bidder is a joint venture, each member of the joint venture must include the above information.

The undersigned acknowledges receipt, understanding and full consideration of the following addenda to the Contract Documents and information required of bidders.

1. Addenda No. _____ thru _____
2. Information Required of Bidders:
 - a. Executed General Information
 - b. Executed List of Sub Contractors
 - c. Executed Non-Collusion Affidavit form
 - d. Completed Iran Contracting Act Form

I hereby certify under penalty of perjury under the laws of the State of California, that all of the information submitted in connection with this Bid and all of the representations made herein are true and correct.

Name of Bidder _____

Signature _____

Name and Title _____

Dated _____

INFORMATION REQUIRED OF BIDDER

MDP LINE 16 WATER PIPELINE RELOCATION PROJECT

PIPELINE 6A – GRAND AVENUE EAST OF MARTIN LANE

PIPELINE 7 – P-3040-0027

PIPELINE 8 – NOBLE STREET TO EL MONTE DRIVE

GENERAL INFORMATION

The bidder shall furnish the following information. Additional sheets may be attached if necessary.

1. Contractor's Name and Address: _____

2. Type of Firm: Individual ___
(Check one) Partnership ___
Corporation ___

3. Telephone: _____

4. Contractor's license: Classification _____ No. _____

5. Names and titles of all owners/officers of the firm:

_____	_____
_____	_____
_____	_____
_____	_____

6. Number of years as a contractor in construction work of this type: _____

7. Answer the three (3) questions below and submit a brief description of the character of the work previously executed as required in the Instructions to Bidders as well as the locations of the major projects, giving the year in which it was done, the manner of its execution, name, telephone number, and address of owner, overall cost when constructed, and such other information as will tend to show ability to prosecute vigorously the work required by this Specification. Attach additional sheets if necessary.

1. Have you or any of your subcontractors been determined to have committed any serious or willful violations of Part 1 (commencing with Section 6300) of Division 5 of the Labor Code during the past five (5) years? _____ If yes, explain.

2. What are the most recent workers' compensation experience modification factors for your firm and each of the proposed subcontractors?

3. Have you and each of the proposed subcontractor(s) adopted injury prevention programs under Section 3201.4 or 6401.7 of the California Labor Code?

8. Person who inspected site of the proposed work for your firm:

Name: _____ Date of Inspection: _____

9. Proposed Project Manager

Name: _____

Qualifications: _____

10. NOTE: If required by the Owner, the bidder shall furnish a notarized financial statement, references, resume of superintendent, and other information sufficiently comprehensive to permit an appraisal of his current financial condition.

INFORMATION REQUIRED OF BIDDER

MDP LINE 16 WATER PIPELINE RELOCATION PROJECT

**PIPELINE 6A – GRAND AVENUE EAST OF MARTIN LANE
PIPELINE 7 – P-3040-0027**

PIPELINE 8 – NOBLE STREET TO EL MONTE DRIVE

LIST OF SUBCONTRACTORS

The bidder shall list below the name and business address of each subcontractor who will perform work under this contract in excess of one-half percent of the total bid price and shall also list the portion of the work which will be done by such subcontractor. After opening proposals, no changes or substitutions will be allowed without the written approval of the Owner.

Aggregate total of all subcontractors shall not exceed fifty percent (50%) of the total contract price.

1. Subcontractor's Name & Address:

Work to be performed:

2. Subcontractor's Name & Address:

Work to be performed:

3. Subcontractor's Name & Address:

Work to be performed:

4. Subcontractor's Name & Address:

Work to be performed:

5. Subcontractor's Name & Address:

Work to be performed:

6. Subcontractor's Name & Address:

Work to be performed:

7. Subcontractor's Name & Address:

Work to be performed:

8. Subcontractor's Name & Address:

Work to be performed:

Note: Attach additional sheets if required.

MDP LINE 16 WATER PIPELINE RELOCATION PROJECT Information Required of Bidder E-4
PIPELINE 6A, 7, 8

July 18, 2022

INFORMATION REQUIRED OF BIDDER
MDP LINE 16 WATER PIPELINE RELOCATION PROJECT

PIPELINE 6A – GRAND AVENUE EAST OF MARTIN LANE
PIPELINE 7 – P-3040-0027
PIPELINE 8 – NOBLE STREET TO EL MONTE DRIVE

NON-COLLUSION AFFIDAVIT

STATE OF CALIFORNIA

COUNTY OF _____



NON-COLLUSION AFFIDAVIT

_____, being first duly sworn, deposes and says that
(Name of Affiant)

he/she is _____ of _____
(Title) (Name of Bidder)

the party making the foregoing bid; that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

(Signature)

(Typed Name)

State of _____ }
County of _____ } ss.

Subscribed and sworn to (or affirmed) before me on this _____ day of _____, 20____, by _____, proved to me on the basis of satisfactory evidence to be the person/persons who appeared before me.

(SEAL)

Notary Public

Commission Expires: _____

BEAUMONT-CHERRY VALLEY WATER DISTRICT

MDP LINE 16 WATER PIPELINE RELOCATION PROJECT

PIPELINE 6A – GRAND AVENUE EAST OF MARTIN LANE

PIPELINE 7 – P-3040-0027

PIPELINE 8 – NOBLE STREET TO EL MONTE DRIVE

DRAFT CONTRACT FOR PUBLIC WORKS

(CONTRACTOR WILL BE REQUIRED TO EXECUTE CONTRACT)

BEAUMONT-CHERRY VALLEY WATER DISTRICT

CONTRACT FOR PUBLIC WORKS

1. Parties and Date

This Contract is entered into this ____ day of _____, 2022, between the BEAUMONT-CHERRY VALLEY WATER DISTRICT, a California Irrigation (Special) District ("District"), and _____ ("Contractor"), for the Work described as follows: MDP LINE 16 WATER PIPELINE RELOCATION PROJECT (PIPELINE 6A, 7, AND 8).

2. Consideration

In consideration of the mutual covenants hereinafter contained, District and Contractor agree to comply with the terms of this Contract and to faithfully perform their duties hereunder.

3. Duties of Contractor

3.1 Contractor agrees to furnish all labor, tools, and equipment necessary to complete the work hereinafter described. Contractor hereby guarantees that all work to be performed by it hereunder will be performed in a good and workmanlike manner. The Work to be performed by Contractor is described on the Construction Drawings and Specifications included herein attached hereto and by this reference incorporated herein. Pursuant to Public Contract Code Section 3300, Contractor shall possess an active and current Contractor's License, Class A or C-34, which shall be maintained throughout the term of this Contract.

3.2 Contractor shall complete all work required herein on or before **October 19, 2022**.

3.3 Contractor shall furnish District with labor ~~and material~~ releases from all subcontractors performing work on, ~~or furnishing materials for~~, the job prior to final payment by District.

3.4 **(Section 3.4 not required)** ~~Contractor shall furnish a performance bond in the amount of the full contract price, a payment bond in the amount of 50% of the full contract price, and a maintenance bond in the amount of the full contract price issued in forms consistent with industry standards by United States Treasury authorized bonding companies as approved by District, prior to commencement of the Work. Bonds shall be furnished on the forms attached at the back of this Contract if Additive Bid Item is exercised. Contractor hereby guarantees that all materials and workmanship furnished by him under the Contract will meet fully all requirements thereof as to quality or workmanship and of materials furnished by him. Contractor hereby agrees to replace all materials and pay for all installation costs made necessary by defects in materials or workmanship supplied by him that become evident within twelve (12) months after the date of final payment and to pay for all~~

~~work necessary to remove, restore, and replace the materials to full serviceability and to full compliance with the requirements of the Contract, including the test requirements for any part of the materials furnished hereunder which, during said twelve (12) month period, are found to be deficient with respect to any provision of the Contract. Contractor also agrees and does hereby hold District harmless from claims of any kind which may arise from injury or damage due to said defects. Contractor shall replace all defective materials promptly upon receipt of written orders for same from District. If Contractor fails to replace all defective materials promptly, District may secure the service of others to do this work, and Contractor and his surety shall be liable to District for the cost, including removal and replacement thereof. The guarantees, indemnifications and agreements set forth above shall continue to be secured following completion of the project by Contractor providing a maintenance bond in the amount of 100% of the full contract price on a form commonly used in the industry and acceptable to the District, and for this purpose said bond shall remain in force for a period of one (1) year after the date of the final payment.~~

3.5 Copies of the prevailing rate of per diem wages for each craft, classification or type of worker needed to execute this Contract are available to interested parties upon request. If the total amount of this Contract is \$1,000 or more, Contractor agrees to pay such prevailing rates to each workman needed to execute the work required under this Contract and further agrees to comply with the penalty provisions of Section 1775 of the Labor Code in the event of its failure to pay prevailing rates. Pursuant to Section 1727 of the Labor Code, all wages and penalties withheld for failure of Contractor to pay such per diem wages shall be transferred by District to the State Labor Commissioner for disbursement, should Contractor fail to bring suit for recovery within ninety (90) days after completion of the Contract or acceptance of the work.

3.6 Contractor shall pay travel subsistence payments to each workman needed to execute the work, as such travel and subsistence payments are defined in the applicable collective bargaining agreements filed in accordance with Section 1773.8 of the Labor Code.

3.7 When Contractor employs workmen in an apprenticeable craft or trade, Contractor shall comply with the provisions of Section 1777.5 of the Labor Code with respect to the employment of properly registered apprentices upon public works. The primary responsibility for compliance with said section for all apprenticeable occupations shall be with Contractor.

3.8 Contractor is advised that eight (8) hours labor constitutes a legal day's work. Pursuant to Section 1813 of the Labor Code, Contractor shall forfeit a penalty of \$25.00 per worker for each day that each worker is permitted to work more than eight (8) hours in any one calendar day and forty (40) hours in any one calendar week, except when payment for overtime is made at not less than one and one-half (1-1/2) times the basic rate for that worker.

3.9 In accordance with the requirements of Labor Code Section 1776, Contractor shall keep accurate payroll records on forms provided by the Division of Labor Standards Enforcement,

or keep payroll records containing the same information required by such forms, and shall make any such records available for inspection.

3.10 Contractor shall keep himself fully informed of all laws and regulations in any manner affecting the performance of the Contract work, and shall indemnify District and District's agents against any liability arising from violation of any such law or regulation.

3.11 Contractor shall at its own expense maintain at least the following insurance coverages throughout the performance of this Contract:

(a) Worker's compensation insurance coverages for all persons employed or to be employed in the performance of this Contract, which insurance shall at all times be maintained in strict accordance with the requirements of the current California Worker's Compensation Insurance Laws.

(b) General commercial liability insurance coverage of at least \$2,000,000 per occurrence and \$2,000,000 general aggregate insuring Contractor and naming District as an additional insured for all claims for bodily injury, personal injury and property damage, arising out of or in connection with any operations under this Contract.

(c) Automobile liability insurance coverage with a limit of liability of \$1,000,000 per accident Combined Single Limit.

(d) Course of construction insurance with a limit of liability equal to the full contract amount, unless waived in writing by District.

Prior to commencement of any work under this Contract, Contractor shall obtain and furnish to District a Certificate of Insurance as to each type of insurance required, which certificate shall be on the form provided to Contractor by District.

3.12 Contractor shall be responsible for all loss and damage which may arise out of the nature of the work agreed to herein, or from the action of the elements, or from any unforeseen difficulties which may arise or be encountered in the prosecution of the work until same is fully completed and accepted by District. However, Contractor shall be responsible for damage proximately caused by an act of God within the meaning of Section 4150 of the Government Code only to the extent of five percent (5%) of the contract amount.

3.13 Contractor shall indemnify and hold harmless District, its agents and employees, from and against all claims, damages, losses and expenses, including attorney's fees, arising out of or resulting from performance of work under this Contract and which are attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property, including the loss of use resulting therefrom, caused in whole or in part by any negligent or willful act or omission of the Contractor or anyone directly or indirectly employed by him or for whose acts he may be liable.

3.14 Contractor shall be responsible for securing and paying for all permits and licenses necessary to perform the work described herein.

3.15 If the work entails trenching of five (5) feet or more in depth, Contractor shall make adequate provisions for shoring, bracing, sloping, or other protection from the hazard of caving ground.

3.16 As required by Public Contract Code Section 7104, Contractor shall promptly, and prior to disturbance of conditions, notify District of (a) any material discovered in excavation that Contractor believes to be a hazardous waste that is required to be removed to a Class I, Class II, or Class III disposal site; (b) subsurface or latent physical conditions at the site differing from those indicated by District; and (c) unknown physical conditions of an unusual nature at the site, significantly different from those ordinarily encountered in such contract work. Upon notification, District will promptly investigate the conditions to determine whether a change order is appropriate. In the event of a dispute, Contractor shall not be excused from any scheduled completion date but will retain all rights provided by the Contract or by law for resolving the dispute.

4. **District's Responsibilities**

4.1 As consideration for performance of the work required herein, District agrees to pay Contractor the total contract amount of [REDACTED], (\$ [REDACTED]), provided that such amount shall be subject to adjustment pursuant to written change orders signed in advance by District.

4.2 Contractor shall submit progress payment invoices to District at the end of each calendar month during the term of the Contract. All progress payment invoices shall be subject to approval by the District prior to payment by the District. Such progress payment invoices shall be made in accordance with Section 20104.50 of the California Public Contract Code, requiring District to make a determination of suitability of the payment request within seven (7) days of receipt of such request and further requiring District to make payment on properly submitted progress payment invoices within thirty (30) days in order to avoid interest payments to the Contractor upon such amounts.

4.3 When the Contractor determines that he has completed the work required herein, Contractor shall so notify District in writing and shall furnish all labor and material releases required by Section 3.3 of this Contract. District shall thereupon inspect the work and, if acceptable, shall pay to Contractor the contract price, less any amount which District may be authorized or directed by law to retain. Payment of retention proceeds due to Contractor shall be made no later than sixty (60) calendar days after such final acceptance by District, in accordance with Section 7107 of the California Public Contract Code. Contractor is hereby alerted to provisions of Section 7107 of the California Public Contract Code, requiring Contractor to pay each of its subcontractors from whom retention has been withheld, each subcontractor's share of the retention received, within ten (10) calendar days from the time that all or any portion of such retention proceeds are received by Contractor from District. District will allow Contractor to substitute qualified securities, deposited with District or a qualified escrow agent, in lieu of contract retentions in accordance with provisions of California Public Contract Code, Section 22300. The escrow agreement used in such instance shall be substantially similar to that
Draft Contract for Public Works

form set out in Section 22300 of the Public Contract Code. District will provide this form to the Contractor upon request.

4.4 To the extent required by Section 4215 of the Government Code, District shall compensate Contractor for the costs of locating and repairing damage to underground utility facilities not due to the failure of Contractor to exercise reasonable care, and removing or relocating underground utility facilities not indicated in the construction drawings and for equipment necessarily idled during such work. Contractor shall not be assessed liquidated damages for delay caused by failure of District to provide for removal or relocation of such utility facilities.

5. Contractual Relationship

It is expressly agreed that Contractor is an independent contractor, and neither Contractor nor any of its employees shall be deemed employees of District. Contractor shall have full supervision over all workers on the job, including equipment, drivers, and operators, and neither District nor any of District's agents shall be held responsible for any action of Contractor under this Contract. Should any question arise regarding the meaning or import of any of the provisions of this Contract or written or oral instructions from District, the matter shall be referred to District's General Manager, whose decision shall be binding upon Contractor.

6. Assignment Forbidden

Contractor shall not assign or transfer this Contract or any right, title or interest herein without the prior written consent of District. If contractor attempts an assignment of this Contract or any right or interest herein, District may, at its option, terminate and revoke the Contract and shall thereupon be relieved from any and all obligations to Contractor or his assignee or transferee.

7. Time of Essence

Time is of the essence in the performance of this Contract. Contractor will be assessed liquidated damages in the amount of \$500.00 per calendar day for each day of unauthorized delay in completing performance.

8. Termination

This Contract may be terminated by District at any time by giving Contractor seven (7) days advance written notice. In the event of termination by District for any reason other than the fault of the Contractor, District shall pay Contractor for all work performed up to that time as provided herein. In the event of breach of the Contract by Contractor, District may terminate the Contract immediately without notice, may reduce payment to the Contractor in the amount necessary to offset District's resulting damages, and may pursue any other available recourse against Contractor.

9. **Dispute Resolution**

Any separate demand by Contractor for the payment of money or damages shall be resolved in accordance with Public Contract Code Sections 20104 et seq., if they apply. Copies of those sections are available upon request and by this reference are incorporated herein.

10. **Attorney's Fees and Costs**

If any action is necessary to enforce or interpret the terms of this Contract, the prevailing party shall be entitled to recover from the losing party attorney's fees in an amount determined to be reasonable by the court, together with costs and necessary disbursements.

11. **Notices**

Any notice required to be given under the terms of this Contract shall be sufficient and complete upon depositing the same in the United States mail, with postage prepaid and addressed as follows:

DISTRICT
Beaumont-Cherry Valley Water
District
P.O. Box 2037
560 Magnolia Avenue
Beaumont, CA 9223

Contractor

12. **Counterparts**

This Contract shall be executed in two (2) counterparts, each of which shall constitute an original.

13. **Certification of License**

Contractor certifies that as of the date of execution of this contract, Contractor has a current contractor's license of the classification indicated below Contractor's signature hereto.

IN WITNESS WHEREOF, each of the parties has caused this Contract to be executed on the day and year first above written.

ATTEST:

(Contractor)

By: _____

Title: _____

Contractor's License Number & Classification

Secretary

BEAUMONT-CHERRY VALLEY
WATER DISTRICT

ATTEST:

By: _____

Daniel K. Jagers
General Manager

Andy Ramirez
Secretary to the Board

CERTIFICATION

LABOR CODE – SECTION 1861

I, the undersigned Contractor, am aware of the provisions of Section 3700 et seq. of the Labor Code which requires every employer to be insured against liability for Worker's Compensation or to undertake self-insurance in accordance with the provisions of the Code, and I, the undersigned Contractor, agree to and will comply with such provisions before commencing the performance of the work of this Contract.

Contractor

By: _____

Title: _____

FAITHFUL PERFORMANCE BOND

KNOW ALL PERSONS BY THESE PRESENTS that:

WHEREAS the Beaumont-Cherry Valley Water District ("District"), has awarded to _____

("Principal") _____ (Name
and address of Contractor)

a contract (the "Contract") for the Work described as follows:

MDP LINE 16 WATER PIPELINE RELOCATION PROJECT (PIPELINE 6A, 7, 8)
(Project name)

WHEREAS, Principal is required under the terms of the Contract to furnish a Bond for the faithful performance of the Contract.

NOW, THEREFORE, we, the undersigned Principal, and _____

(Name and address of Surety)

("Surety") a duly admitted surety insurer under the laws of the State of California, as Surety, are held and firmly bound unto the District in the penal sum of _____

Dollars (\$ _____), this amount being not less than the total Contract Price, in lawful money of the United States of America, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, successors executors and administrators, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT, if the hereby bounded Principal, his, her or its heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions and provisions in the Contract and any alteration thereof made as therein provided, on the Principal's part, to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall indemnify and save harmless the District, its officers, agents and employees, as therein stipulated, then this obligation shall become null and void; otherwise, it shall be and remain in full force and effect.

As a part of the obligation secured hereby and in addition to the face amount specified therefor, there shall be included costs and reasonable expenses and fees, including reasonable attorneys' fees, incurred by District in successfully enforcing such obligation, all to be taxed as costs and included in any judgment rendered. Surety hereby waives any statute of limitations as it applies to an action on this Bond.

The Surety hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or of the Work to be performed thereunder or the specifications accompanying the same shall in anywise affect its obligations under this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the Contract or to the Work or to the specifications. Surety hereby waives the provisions of California Civil Code Sections 2845 and 2849. The District is the principal beneficiary of this Bond and has all rights of a party hereto.

IN WITNESS WHEREOF, two (2) identical counterparts of this instrument, each of which shall for all purposes be deemed an original hereof, have been duly executed by Principal and Surety, on the date set forth below, the name of each corporate party being hereto affixed and these presents duly signed by its undersigned representative(s) pursuant to authority of its governing body.

Dated: _____

“Principal”

“Surety”

By: _____
Its

By: _____
Its

By: _____
Its

By: _____
Its

(Seal)

(Seal)

*Note: This Bond must be executed in duplicate and dated, all signatures must be notarized, and evidence of the authority of any person signing as attorney-in-fact must be attached. **DATE OF BOND MUST NOT BE BEFORE DATE OF CONTRACT.** Surety companies executing Bonds must appear on the Treasury Department’s most current list (Circular 570 as amended) and be authorized to transact business in the State where the project is located.*

NOTICE OF AWARD

TO:

- _____

- _____

- _____

OWNER: _____ Beaumont-Cherry Valley Water District _____

PROJECT TITLE: MDP LINE 16 WATER PIPELINE RELOCATION PROJECT (PIPELINE 6A, 7, 8)

The Owner has considered the bid submitted by you dated _____, 20__ for the above-described work in response to its Notice Inviting Bids and in accordance with the BIDDING PROVISIONS.

You are hereby notified that your bid has been accepted in the total base amount of \$_____ including the following schedules and bid items: **[MUST MATCH NIB AND INST. TO BIDDERS]**

Bidding Schedule I – Bidding Schedule III for the MDP LINE 16 WATER PIPELINE RELOCATION PROJECT (PIPELINE 6A, 7, 8)

Pursuant to the Notice Inviting Bids, you are required to execute the Agreement and furnish the required bonds and certification of Insurance with endorsements within ten (10) work days from the date of this Notice to you.

If you fail to execute said Agreement and furnish said bonds and certification of Insurance and endorsements within ten (10) days from the date of this Notice, Owner will be entitled to consider all of your rights arising out of Owner's acceptance of your bid to be abandoned and your Proposal Guarantee to be forfeited. Owner will be entitled to such other rights as may be granted by law.

A Pre-Construction Conference is proposed at _____ office on _____, 20__, at _____.

PLEASE CONFIRM THIS DATE AND TIME.

You are required to return an acknowledged copy of this Notice of Award to Owner.

Dated this _____ day of _____, 20__.

By: _____

Title: _____

ACCEPTANCE OF NOTICE

Receipt of the foregoing Notice of Award is hereby acknowledged.

By Contractor: _____

this _____ day of _____ 20____.

By: _____

Title: _____

NOTICE TO PROCEED

TO: _____ DATE: _____

PROJECT: Beaumont-Cherry Valley Water District
MDP LINE 16 WATER PIPELINE
RELOCATION PROJECT
(PIPELINE 6A, 7, 8)

You are hereby notified to commence Work in accordance with the Agreement dated _____, 20____, and you shall achieve Final Completion of the Work no later than 30 calendar days from the District's Notice of Award date of _____. The date of completion of all Work is therefore _____, or sooner.

The Contract provides for an assessment of the sum of \$500 per day as liquidated damages for each consecutive calendar day after the above-established Contract completion date that the Work remains incomplete.

Beaumont-Cherry Valley Water District
Owner

Daniel Jagers
By

General Manager
Title

ACCEPTANCE OF NOTICE

Receipt of the above Notice to Proceed is hereby acknowledged by _____, this the _____ day of _____, 20____.

By: _____

Title: _____

Project # _____

Beaumont-Cherry Valley Water District
 560 Magnolia Avenue
 Beaumont, CA 92223
 (951) 845-9581

PARTIAL PAYMENT ESTIMATE # _____

Name of Contractor: _____

Name of Owner:

Beaumont-Cherry Valley Water District

Date of Completion:

Original _____
 Revised _____

Amount of Contract:

Original _____
 Revised _____

Dates of Estimate:

From _____
 To _____

Description of Job:

MDP LINE 16 WATER PIPELINE RELOCATION
 PROJECT (PIPELINE 6A, 7, 8)

Item #	Contract Items				This Period		Total to Date	
	Description	Quantity	Unit Price	Total	Quantity	Amount	Quantity	Amount

Project # _____

Amount	This Period	Total To Date
Amount Earned		
Amount Retained		
Previous Payments		
Amount Due		

Estimated Percentage of Job Completed _____

Is Contractor's Construction Progress on Schedule? _____ [] Yes [] No

I hereby certify that I have carefully inspected the work and as a result of my inspection and to the best of my knowledge and belief, the quantities shown in this estimate are correct and have not been shown in previous estimates and the work has been performed in accordance with the contract documents.

DATE: _____

Name of Contractor

BY: _____

Title

BEAUMONT-CHERRY VALLEY WATER DISTRICT

BY: _____
Engineer

BY: _____
Inspector

C.O. NO. _____

PAGE 1 OF 2

CONTRACT CHANGE ORDER NO. _____

CONTRACT MDP LINE 16 WATER PIPELINE RELOCATION PROJECT (PIPELINE 6A, 7, 8)

DATED _____

BY AND BETWEEN Beaumont-Cherry Valley Water District (OWNER),

AND _____ (CONTRACTOR),

is hereby directed to make the following change(s) in Contract Work:

ITEM NO.	DESCRIPTION OF CHANGE	DECREASE \$	INCREASE \$

Total DECREASE in Contract Amount _____

Total INCREASE in Contract Amount _____

Net change in Contract Amount _____

Contract Amount Prior to Change _____

Contract Amount Adjusted for Change _____

CONTRACT CHANGE ORDER NO. _____

PAGE 2 OF 2

By reason of Change Order No. _____, time of completion shall be adjusted as follows:

_____ Working Days. Adjusted Contract Completion Date shall be _____.

All provisions of the Contract shall apply hereto, and shall become effective when fully executed (signed and dated) by both parties.

Recommended by (Engineer) _____ Date: _____

Accepted by (Contractor) _____ Date: _____

Approved by (Owner) _____ Date: _____

Remarks _____

UNCONDITIONAL WAIVER AND RELEASE UPON FINAL PAYMENT

TO: Beaumont-Cherry Valley Water District
(District)

Work Order No. _____

Contract Dated _____, 20 ____

NOTICE TO CLAIMANT: THIS DOCUMENT WAIVES AND RELEASES LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS UNCONDITIONALLY AND STATES THAT YOU HAVE BEEN PAID FOR GIVING UP THOSE RIGHTS. THIS DOCUMENT IS ENFORCEABLE AGAINST YOU IF YOU SIGN IT, EVEN IF YOU HAVE NOT BEEN PAID. IF YOU HAVE NOT BEEN PAID, USE A CONDITIONAL WAIVER AND RELEASE FORM.

Identifying Information:

Name of Claimant:

Name of Customer:

Job Location:

Owner:

Unconditional Waiver and Release

This document waives and releases lien, stop payment notice, and payment bond rights the claimant has for all labor and service provided, and equipment and material delivered, to the customer on this job. Rights based upon labor or service provided, or equipment or material delivered, pursuant to a written change order that has been fully executed by the parties prior to the date that this document is signed by the claimant, are waived and released by this document, unless listed as an Exception below. The claimant has been paid in full.

Exceptions:

This document does not affect the following:

Disputed claims for extras in the amount of: \$

Signature:

Claimant's Signature:

Claimant's Title:

Date of Signature:

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of Riverside)

On _____, before me, _____,
(insert name and title of the officer)

Notary Public, personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____

(Seal)

NOTICE OF COMPLETION

To: Riverside County Assessor-County Clerk-Recorder Date: _____, 20____
2720 Gateway Drive
Riverside, California 92507 Work Order No.: _____

Owner: Beaumont-Cherry Valley Water District Date of Completion: _____
560 Magnolia Avenue
Beaumont, California 92223

OWNER'S ESTATE OF INTEREST:

Easement _____ Fee Title _____ Encroachment Permit _____

Other (describe) _____

CONTRACTOR:

Name: _____

Address: _____

TITLE OF PROJECT: _____

DESCRIPTION OF PROJECT: MDP LINE 16 WATER PIPELINE RELOCATION PROJECT
(PIPELINE 6A, 7, 8)

DESCRIPTION OF SITE (LOCATION): _____

ASSESSOR'S PARCEL NUMBER: _____

Final payment will be made to the above contractor no sooner than thirty-five (35) days from the recording date of this Notice of Completion, except where otherwise provided for by law.

I certify under penalty of perjury, under the laws of the State of California, that the foregoing is true and correct.

Executed on _____, 20____ at _____, California.

BEAUMONT-CHERRY VALLEY WATER DISTRICT

By: _____

Printed Name: _____

Title: _____

ESCROW AGREEMENT FOR SECURITY DEPOSITS IN LIEU OF RETENTION

**MDP LINE 16 WATER PIPELINE RELOCATION PROJECT
PIPELINE 6A – GRAND AVENUE EAST OF MARTIN LANE
PIPELINE 7 – P-3040-0027
PIPELINE 8 – NOBLE STREET TO EL MONTE DRIVE**

This Escrow Agreement is made and entered into by and between _____
Beaumont-Cherry Valley Water District whose address is
560 Magnolia Avenue, Beaumont, CA 92223 hereinafter called "Owner,"
_____ whose address is
_____ hereinafter called "Contractor",
and _____ whose address is
_____ hereinafter called "Escrow Agent."

For the consideration hereinafter set forth, the Owner, Contractor, and Escrow Agent agree as follows:

(1) Pursuant to Section 22300 of the Public Contract Code of the State of California, Contractor has the option to deposit securities with an Escrow Agent as a substitute for retention earnings required to be withheld by Owner pursuant to the Construction Contract entered into between the Owner and Contractor for _____ dated _____ (hereinafter referred to as the "Contract"). Alternatively, on written request of the Contractor, the Owner shall make payments of the retention earnings directly to the Escrow Agent. When Contractor deposits the securities as a substitute for Contract earnings, the Escrow Agent shall notify the Owner within ten (10) days of the deposit. The market value of the securities at the time of the substitution shall be at least equal to the cash amount then required to be withheld as retention under the terms of the Contract between the Owner and Contractor. Securities shall be held in the name of _____, and shall designate the Contractor as the beneficial Owner.

(2) The Owner shall make progress payments to the Contractor for such funds which otherwise would be withheld from progress payments pursuant to the Contract provisions, provided that the Escrow Agent holds securities in the form and amount specified above.

(3) When the Owner makes payment of retentions earned directly to the Escrow Agent, the Escrow Agent shall hold them for the benefit of the Contractor until such time as the escrow created under this Contract is terminated. The Contractor may direct the investment of the payments into securities. All terms and conditions of this agreement and the rights and responsibilities of the parties shall be equally applicable and binding when the Owner pays the Escrow Agent directly.

(4) Contractor shall be responsible for paying all fees for the expenses incurred by Escrow Agent in administering the escrow account and all expenses of Owner. These expenses and payment terms shall be determined by the Owner, Contractor and Escrow Agent.

(5) The interest earned on the securities or the money market accounts held in escrow and all interest earned on that interest shall be for the sole account of Contractor and shall be subject to withdrawal by the Contractor at any time and from time to time without notice to the Owner.

(6) Contractor shall have the right to withdraw all or any part of the principal in the Escrow Account only by written notice to Escrow Agent accompanied by written authorization from

the Owner to the Escrow Agent that Owner consents to the withdrawal of the amount sought to be withdrawn by Contractor.

(7) The Owner shall have a right to draw upon the securities in the event of default by the Contractor. Upon seven (7) days written notice to the Escrow Agent from the Owner of the default, the Escrow Agent shall immediately convert the securities to cash and shall distribute the cash as instructed by the Owner.

(8) Upon receipt of written notification from the Owner certifying that the Contract is final and complete, and that the Contractor has complied with all requirements and procedures applicable to the Contract, Escrow Agent shall release to Contractor all securities and interest on deposit less escrow fees and charges of the Escrow Account. The escrow shall be closed immediately upon disbursement of all moneys and securities on deposit and payments of fees and charges.

(9) Escrow Agent shall rely on the written notifications from the Owner and the Contractor pursuant to Sections (5) to (8), inclusive, of this agreement and the Owner and Contractor shall hold Escrow Agent harmless from Escrow Agent's release and disbursement of the securities and interest as set forth above.

(10) The names of the persons who are authorized to give written notice or to receive written notice on behalf of the Owner and on behalf of Contractor in connection with the foregoing, and exemplars of their respective signatures are as follows:

On behalf of Owner:

Title

Name

Signature

Address

On behalf of Escrow Agent:

Title

Name

Signature

Address

On behalf of Contractor:

Title

Name

Signature

Address

WORKERS' COMPENSATION INSURANCE CERTIFICATE

The Contractor shall execute the following form as required by the California Labor Code, Sections 1860 and 1861:

I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the Work of this Contract.

Date

Contractor

By:

Signature

Title

ATTEST:

By:

Signature

Title

CERTIFICATE OF CONTRACTOR

I, _____,
certify that I am a/the _____ [designate sole proprietor, partner in partnership,
or specify corporate office, e.g., secretary] in the entity named as Contractor in the foregoing Contract.

I hereby expressly certify that the name of the entity to which I am associated is

; that this entity is in good standing and has complied with all applicable laws and regulations, and that I
have been expressly authorized by the proper parties in this entity to execute this contract on behalf of
the above-named entity.

Signature

ATTEST:

Name: _____
(Please Type)

Title: _____

CONDITIONAL WAIVER AND RELEASE UPON PROGRESS PAYMENT

Description of Contract:

MDP LINE 16 WATER PIPELINE RELOCATION PROJECT

PIPELINE 6A – GRAND AVENUE EAST OF MARTIN LANE

PIPELINE 7 – P-3040-0027

PIPELINE 8 – NOBLE STREET TO EL MONTE DRIVE

FOR THE BEAUMONT-CHERRY VALLEY WATER DISTRICT

NOTICE: THIS DOCUMENT WAIVES THE CLAIMANT’S LIEN, STOP PAYMENT NOTICE, AND PAYMENT BOND RIGHTS EFFECTIVE ON RECEIPT OF PAYMENT. A PERSON SHOULD NOT RELY ON THIS DOCUMENT UNLESS SATISFIED THAT THE CLAIMANT HAS RECEIVED PAYMENT.

Identifying Information:

Name of Claimant:

Name of Customer:

Job Location:

Owner:

Through Date:

Conditional Waiver and Release

This document waives and releases lien, stop payment notice, and payment bond rights the claimant has for labor and service provided, and equipment and material delivered, to the customer on this job through the Through Date of this document. Rights based upon labor or service provided, or equipment or material delivered, pursuant to a written change order that has been fully executed by the parties prior to the date that this document is signed by the claimant, are waived and released by this document, unless listed as an Exception below. This document is effective only on the claimant’s receipt of payment from the financial institution on which the following check is drawn:

Maker of Check:

Amount of Check: \$

Check Payable to:

Exceptions:

This document does not affect any of the following:

(1) Retentions.

(2) Extras for which the claimant has not received payment.

(3) The following progress payments for which the claimant has previously given a conditional waiver and release but has not received payment:

Date(s) of waiver and release:

Amount(s) of unpaid progress payment(s): \$

(4) Contract rights, including (A) a right based on rescission, abandonment, or breach of contract, and (B) the right to recover compensation for work not compensated by the payment.

Signature:

Claimant’s Signature:

Claimant’s Title:

Date of Signature:

MDP LINE 16 WATER PIPELINE RELOCATION PROJECT
Pipeline 6A, 7, 8
July 18, 2022

Conditional Waiver and Release
Upon Progress Payment R-1

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)
County of Riverside)

On _____, before me, _____,
(insert name and title of the officer)

Notary Public, personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ **(Seal)**

CERTIFICATE OF INSURANCE

Description of Contract:

2017 WATER PIPELINE RELOCATION PROJECT

PIPELINE 6A – GRAND AVENUE EAST OF MARTIN LANE

PIPELINE 7 – P-3040-0027

PIPELINE 8 – NOBLE STREET TO EL MONTE DRIVE

FOR THE BEAUMONT-CHERRY VALLEY WATER DISTRICT

Type of Insurance: Workers' Compensation Insurance and Employers' Liability Insurance

THIS IS TO CERTIFY that the following policy has been issued by the below-stated company in conformance with the requirements of Section 2.5 of the General Conditions and is in force at this time.

The Company will give at least thirty (30) days written notice by certified mail to the Owner and Engineer/Architect prior to any material change or cancellation of said policy.

POLICY NO./EXPIRATION DATE

LIMITS OF LIABILITY

A. WORKERS' COMPENSATION

Statutory Limits Under the Laws of the State of California

B. EMPLOYERS' LIABILITY

Each Employee

Each Accident

Bodily Injury by Accident

\$ _____ \$ _____

Bodily Injury by Disease

\$ _____ \$ _____

Named Insured (Contractor)

Insurance Company

Street Number

Street Number

City and State

City and State

By: _____

(Company Representative)

MDP LINE 16 WATER PIPELINE RELOCATION PROJECT
Pipeline 6A, 7, 8
July 18, 2022

Certificate of Insurance
for Workers Compensation S-1

State of _____)
) ss.
County of _____)

On _____, 20____, before me,
_____, personally appeared
_____, who proved to me on the basis of satisfactory
evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and
acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies),
and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of
which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary (Notary Seal)

Insurance Company Agent for Service
of Process in California:

_____ Name	_____ Agency
_____ Street Number	_____ Street Number
_____ City and State	_____ City and State
_____ Telephone Number	_____ Telephone Number

This certificate or verification of insurance is not an insurance policy and does not amend, extend,
or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term,
or condition of any contract or other document with respect to which this certificate or verification of
insurance may be issued or may pertain, the insurance afforded by the policies described herein is
subject to all the terms, exclusions, and conditions of such policies.

*NOTICE: No substitution or revision to the above certificate form will be accepted, unless otherwise
specified by the Owner in its sole discretion. If the insurance called for is provided by more than
one insurance company, a separate certificate in the exact above form shall be provided for each
insurance company.*

INSURANCE ENDORSEMENT for WORKERS' COMPENSATION

Description of Contract:

MDP LINE 16 WATER PIPELINE RELOCATION PROJECT
PIPELINE 6A – GRAND AVENUE EAST OF MARTIN LANE
PIPELINE 7 – P-3040-0027
PIPELINE 8 – NOBLE STREET TO EL MONTE DRIVE
FOR THE BEAUMONT-CHERRY VALLEY WATER DISTRICT

Type of Insurance: Workers' Compensation Insurance and Employers' Liability Insurance

This endorsement forms a part of Policy No. _____.

ENDORSEMENT

It is agreed that with respect to such insurance as is afforded by the policy, the Company waives any right of subrogation it may acquire against the Owner, the Engineer/Architect, the Owner's Representative, and their consultants, and each of their directors, officers, agents, and employees by reason of any payment made on account of injury, including death resulting therefrom, sustained by any employee of the insured, arising out of the performance of the above-referenced Contract.

This endorsement does not increase the Company's total limits of liability.

Named Insured (Contractor)

Insurance Company

Street Number

Street Number

City and State

City and State

By: _____
(Company Representative)
(See Notice on Page S-4)

State of _____)
) ss.
County of _____)

On _____, 20____, before me,
_____, personally appeared
_____, who proved to me on the basis of satisfactory
evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and
acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies),
and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of
which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary

(Notary Seal)

NOTICE: No substitution or revision to the above endorsement form will be accepted, unless otherwise specified by the Owner in its sole discretion. If the insurance called for is provided by more than one policy, a separate endorsement in the exact above form shall be provided for each policy.

CERTIFICATE OF INSURANCE

Description of Contract:

MDP LINE 16 WATER PIPELINE RELOCATION PROJECT

PIPELINE 6A – GRAND AVENUE EAST OF MARTIN LANE

PIPELINE 7 – P-3040-0027

PIPELINE 8 – NOBLE STREET TO EL MONTE DRIVE

FOR THE BEAUMONT-CHERRY VALLEY WATER DISTRICT

Type of Insurance: Liability Insurance

THIS IS TO CERTIFY that the following policies have been issued by the below-stated company in conformance with the requirements of Section 2.5 of the General Conditions and are in force at this time. The policy shall be an occurrence policy with a deductible not to exceed \$5,000.

POLICY NUMBER EXPIRATION DATE		LIMITS OF LIABILITY (thousands)	
		Occurrence	Aggregate
_____	A. GENERAL LIABILITY		
	Bodily Injury, Personal Injury, and Property Damage Combined	\$ _____	\$ _____
_____	B. EXCESS GENERAL LIABILITY	\$ _____	\$ _____
_____	C. AUTOMOBILE LIABILITY		
	Bodily Injury and Property Damage Combined	\$ _____	\$ _____
_____	D. EXCESS AUTOMOBILE LIABILITY	\$ _____	\$ _____

The following types of coverage are included in said policies (indicate by "X" in space):

A. GENERAL LIABILITY

- Comprehensive FormYES ___ NO ___
- Premises-OperationsYES ___ NO ___
- Explosion and Collapse HazardYES ___ NO ___
- Underground Hazard.....YES ___ NO ___
- Products/Completed Operations Hazard.....YES ___ NO ___
- Contractual InsuranceYES ___ NO ___
- Broad Form Property Damage, Including
 - Completed Operations.....YES ___ NO ___
 - Independent ContractorsYES ___ NO ___
 - Personal Injury.....YES ___ NO ___

B. EXCESS GENERAL LIABILITY

- Umbrella Form.....YES ___ NO ___
 - Other Than Umbrella FormYES ___ NO ___
- If other than Umbrella Form, please explain below:

C. AUTOMOBILE LIABILITY

- Comprehensive Form Including Loading and UnloadingYES ___ NO ___
- Owned.....YES ___ NO ___
- Hired.....YES ___ NO ___
- Non-OwnedYES ___ NO ___

D. EXCESS AUTOMOBILE LIABILITY

- Umbrella Form.....YES ___ NO ___
 - Other Than Umbrella FormYES ___ NO ___
- If other than Umbrella Form, please explain below:

This certificate or verification of insurance is not an insurance policy and does not amend, extend, or alter the coverage afforded by the policies listed herein. However, the insurance provided shall meet the requirements of the Contract Documents and include coverage as specified in this certificate. The Company will give at least thirty (30) days written notice by certified mail to the Owner and the Engineer/Architect prior to any material change or cancellation of said policies.

Named Insured (Contractor)

Insurance Company

Street Number

Street Number

City and State

City and State

By: _____
(Company Representative)
(See Notice on Page T-4)

State of _____)
County of _____) ss.

On _____, 20____, before me, _____, personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary (Notary Seal)

Insurance Company Agent for Service of Process in California:

_____ Name	_____ Agency
_____ Street Number	_____ Street Number
_____ City and State	_____ City and State
_____ Telephone	_____ Telephone

This certificate or verification of insurance is not an insurance policy and does not amend, extend, or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term, or condition of any contract or other document with respect to which this certificate or verification of insurance may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, exclusions, and conditions of such policies.

Insurers must be authorized to do business and have an agent for service of process in California and have an "A" policyholder's rating and a financial rating of at least Class VI in accordance with the most current Best's Rating.

NOTICE: No substitution or revision to the above certificate form will be accepted, unless otherwise specified by the Owner in its sole discretion. If the insurance called for is provided by more than one insurance company, a separate certificate in the exact above form shall be provided for each insurance company.

INSURANCE ENDORSEMENT

Description of Contract:

MDP LINE 16 WATER PIPELINE RELOCATION PROJECT

PIPELINE 6A – GRAND AVENUE EAST OF MARTIN LANE

PIPELINE 7 – P-3040-0027

PIPELINE 8 – NOBLE STREET TO EL MONTE DRIVE

FOR THE BEAUMONT-CHERRY VALLEY WATER DISTRICT

Type of Insurance: Liability Insurance

This endorsement forms a part of Policy No. _____.

ENDORSEMENT

The Owner, the Engineer/Architect, the Owner's Representative, and their consultants, and each of their directors, officers, agents, and employees are included as additional insured under said policies but only while acting in their capacity as such and only as respects operations of the named insured, his contractors, any subcontractor, any supplier, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable in the performance of the above-referenced contract. This insurance shall not apply if the loss or damage is ultimately determined to be the result of the sole and exclusive negligence (including any connected with the preparation or approval of maps, drawings, opinions, reports, surveys, designs, or specifications) of one or more of the aforesaid additional insured. The insurance afforded to these additional insured is primary insurance. If the additional insured have other insurance which might be applicable to any loss, the amount of this insurance shall not be reduced or prorated by the existence of such other insurance.

The Contractual Liability Insurance afforded is sufficiently broad to insure all of the matters set forth in the article entitled "Indemnity" in the General Provisions of the above-referenced contract except those matters set forth in the third paragraph thereof.

This endorsement does not increase the Company's total limits of liability.

Named Insured (Contractor)

Insurance Company

Street Number

Street Number

City and State

City and State

By: _____
(Company Representative)
(See Notice on Page T-6)

State of _____)
County of _____) ss.

On _____, 20____, before me, _____, personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary (Notary Seal)

Insurers must be authorized to do business and have an agent for service of process in California and have an "A" policyholder's rating and a financial rating of at least Class VII in accordance with the most current Best's Rating.

NOTICE: No substitution or revision to the above endorsement form will be accepted, unless otherwise specified by the Owner in its sole discretion. If the insurance called for is provided by more than one policy, a separate endorsement in the exact above form shall be provided for each policy.

CERTIFICATE OF INSURANCE

Description of Contract:

MDP LINE 16 WATER PIPELINE RELOCATION PROJECT

PIPELINE 6A – GRAND AVENUE EAST OF MARTIN LANE

PIPELINE 7 – P-3040-0027

PIPELINE 8 – NOBLE STREET TO EL MONTE DRIVE

FOR THE BEAUMONT-CHERRY VALLEY WATER DISTRICT

Type of Insurance: Builders' Risk "All Risk" Insurance

THIS IS TO CERTIFY that the following policy has been issued by the below-stated company in conformance with the requirements of Sections 2.5 of the General Conditions and is in force at this time:

<u>POLICY NUMBER</u>	<u>EXPIRATION DATE</u>	<u>LIMITS OF LIABILITY</u>
_____	_____	\$ _____
		(Not Less Than Contract Amt)
	Deductible: _____	\$ _____
	(Not Sooner Than Contract Completion Date)	(Not More Than \$5,000)

This certificate or verification of insurance is not an insurance policy and does not amend, extend, or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term, or condition of any contract or other document with respect to which this certificate or verification of insurance may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, exclusions, and conditions of such policies.

The Company will give at least thirty (30) days written notice by certified mail to the Owner and the Engineer/Architect prior to any material change or cancellation of said policy.

Named Insured (Contractor)

Insurance Company

Street Number

Street Number

City and State

City and State

By: _____
(Company Representative)
(See Notice on Page U-2)

State of _____)
County of _____) ss.

On _____, 20____, before me, _____, personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary (Notary Seal)

Insurance Company Agent for Service of Process in California:

Name _____ Agency _____
Street Number _____ Street Number _____
City and State _____ City and State _____
Telephone _____ Telephone _____

This certificate or verification of insurance is not an insurance policy and does not amend, extend, or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term, or condition of any contract or other document with respect to which this certificate or verification of insurance may be issued or may pertain, the insurance afforded by the policies described herein is subject to all the terms, exclusions, and conditions of such policies.

Insurers must be authorized to do business and have an agent for service of process in California and have an "A" policyholder's rating and a financial rating of at least Class VI in accordance with the most current Best's Rating.

NOTICE: No substitution or revision to the above certificate form will be accepted, unless otherwise specified by the Owner in its sole discretion. If the insurance called for is provided by more than one insurance company, a separate certificate in the exact above form shall be provided for each insurance company.

INSURANCE ENDORSEMENT

Description of Contract:

MDP LINE 16 WATER PIPELINE RELOCATION PROJECT

PIPELINE 6A – GRAND AVENUE EAST OF MARTIN LANE

PIPELINE 7 – P-3040-0027

PIPELINE 8 – NOBLE STREET TO EL MONTE DRIVE

FOR THE BEAUMONT-CHERRY VALLEY WATER DISTRICT

Type of Insurance: Builders' Risk "All Risk" Insurance

This endorsement forms a part of Policy No. _____

ENDORSEMENT

The Owner, the Engineer/Architect, the Owner's Representative, and their consultants, and each of their directors, officers, agents, and employees are included as additional insured under said policy but only while acting in their capacity as such with respect to the above-referenced contract.

The insurance afforded to these additional insured is primary insurance. If the additional insured have other insurance which might be applicable to any loss, the amount of this insurance shall not be reduced or prorated by the existence of such other insurance.

This endorsement does not increase the Company's total limits of liability.

Named Insured (Contractor)

Insurance Company

Street Number

Street Number

City and State

City and State

By: _____

(Company Representative)
(See Notice on Page U-4)

State of _____)
) ss.
County of _____)

On _____, 20____, before me,
_____, personally appeared
_____, who proved to me on the basis of satisfactory
evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and
acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies),
and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of
which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary

(Notary Seal)

Insurers must be authorized to do business and have an agent for service of process in California
and have an "A" policyholder's rating and a financial rating of at least Class VI in accordance with
the most current Best's Rating.

**NOTICE: No substitution or revision to the above endorsement form will be accepted,
unless otherwise specified by the Owner in its sole discretion. If the insurance called for is
provided by more than one policy, a separate endorsement in the exact above form shall be
provided for each policy.**

IRAN CONTRACTING ACT CERTIFICATION

(Public Contract Code sections 2202-2208)

Pursuant to the Iran Contract Act of 2010 (Public Contract Code 2200-2208), Vendors/Bidders are ineligible to bid on or submit a proposal for any contract with a public entity for goods or services of one million dollars (\$1,000,000) or more if the Vendor/Bidder engages in investment activities in Iran.

For bids \$1,000,000 or more, bidders must certify that it is not on the list of ineligible vendors prohibited from doing business with the State of California and shall complete the Iran Contract Act Certification attached and submit with their proposal at the time of bid. Failure to do so may deem your bid non-responsive.

IRAN CONTRACTING ACT CERTIFICATION

Pursuant to the Iran Contract Act of 2010 (Public Contract Code 2200-2208), Vendors/Bidders are ineligible to bid on or submit a proposal for any contract with a public entity for goods or services of one million dollars (\$1,000,000) or more if the Vendor/Bidder engages in investment activities in Iran.

MUST BE SUBMITTED WITH BID PROPOSAL IF BID AMOUNT IS \$1,000,000 OR MORE

Prior to bidding on, submitting a proposal, or executing a contract or renewal for a public entity contract for goods or services of \$1,000,000 or more, a vendor must either: a) certify it is **not** on the current list of persons engaged in investment activities in Iran created by the California Department of General Services (“DGS”) pursuant to Public Contract Code section 2203(b) and is not a financial institution extending \$20,000,000 or more in credit to another person, for 45 days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS; or b) demonstrate it has been exempted from the certification requirement for that solicitation or contract pursuant to Public Contract Code section 2203(c) or (d).

To comply with this requirement, please insert your vendor or financial institution name and Federal ID Number (if available) and complete **one** of the options below. Please note: California law establishes penalties for providing false certifications, including civil penalties equal to the greater of \$250,000 or twice the amount of the contract for which the false certification was made, contract termination, and three-year ineligibility to bid on contracts. (Pub. Cont. Code § 2205.)

OPTION #1 - CERTIFICATION

I, the official named below, certify I am duly authorized to execute this certification on behalf of the vendor/financial institution identified below, and the vendor/financial institution identified below is **not** on the current list of persons engaged in investment activities in Iran created by DGS and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person/vendor, for 45 days or more, if that other person/vendor will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

I certify (or declare) under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

<i>Vendor Name/Financial Institution (Printed)</i>	<i>Federal ID Number (or n/a)</i>
<i>By (Authorized Signature)</i>	
<i>Printed Name and Title of Person Signing</i>	<i>Date Executed</i>

OPTION #2 – EXEMPTION

Pursuant to Public Contract Code sections 2203(c) and (d), a public entity may permit a vendor/financial institution engaged in investment activities in Iran, on a case-by-case basis, to be eligible for, or to bid on, submit a proposal for, or enters into or renews, a contract for goods and services.

If you have obtained an exemption from the certification requirement under the Iran Contracting Act, please fill out the information below, and attach documentation demonstrating the exemption approval.

<i>Vendor Name/Financial Institution (Printed)</i>	<i>Federal ID Number (or n/a)</i>
<i>By (Authorized Signature)</i>	
<i>Printed Name and Title of Person Signing</i>	<i>Date Executed</i>

PUBLIC WORKS CONTRACTOR REGISTRATION
(Pursuant to SB 854)

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

Pursuant to Section 1771.1 of the Labor Code, **no contractor or subcontractor** shall be qualified to bid on, be listed in a bid proposal pursuant to Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work unless currently registered to perform public work pursuant to Section 1725.5 of the Labor Code. It shall not be a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Sections 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.

BIDDERS AND THEIR SUBCONTRACTORS (listed on the Designation of Subcontractors List C-05) are to provide an extract (pdf) at time of bid showing active registration from the Public Works Contractor Registration online registration at <https://efiling.dir.ca.gov/PWCR/Search>

**SUBMIT BIDDER & SUBCONTRACTORS CONTRACTOR REGISTRATION
EXTRACTS WITH BID PROPOSAL**

Example:

Legal Name	Registration Number	County	City	Registration Date	Expiration Date
Contractors Name	0000000000	RIVERSIDE	Temecula	06/01/2015	06/30/2016

BEAUMONT-CHERRY VALLEY WATER DISTRICT

MDP LINE 16 WATER PIPELINE RELOCATION PROJECT

PIPELINE 6A – GRAND AVENUE EAST OF MARTIN LANE

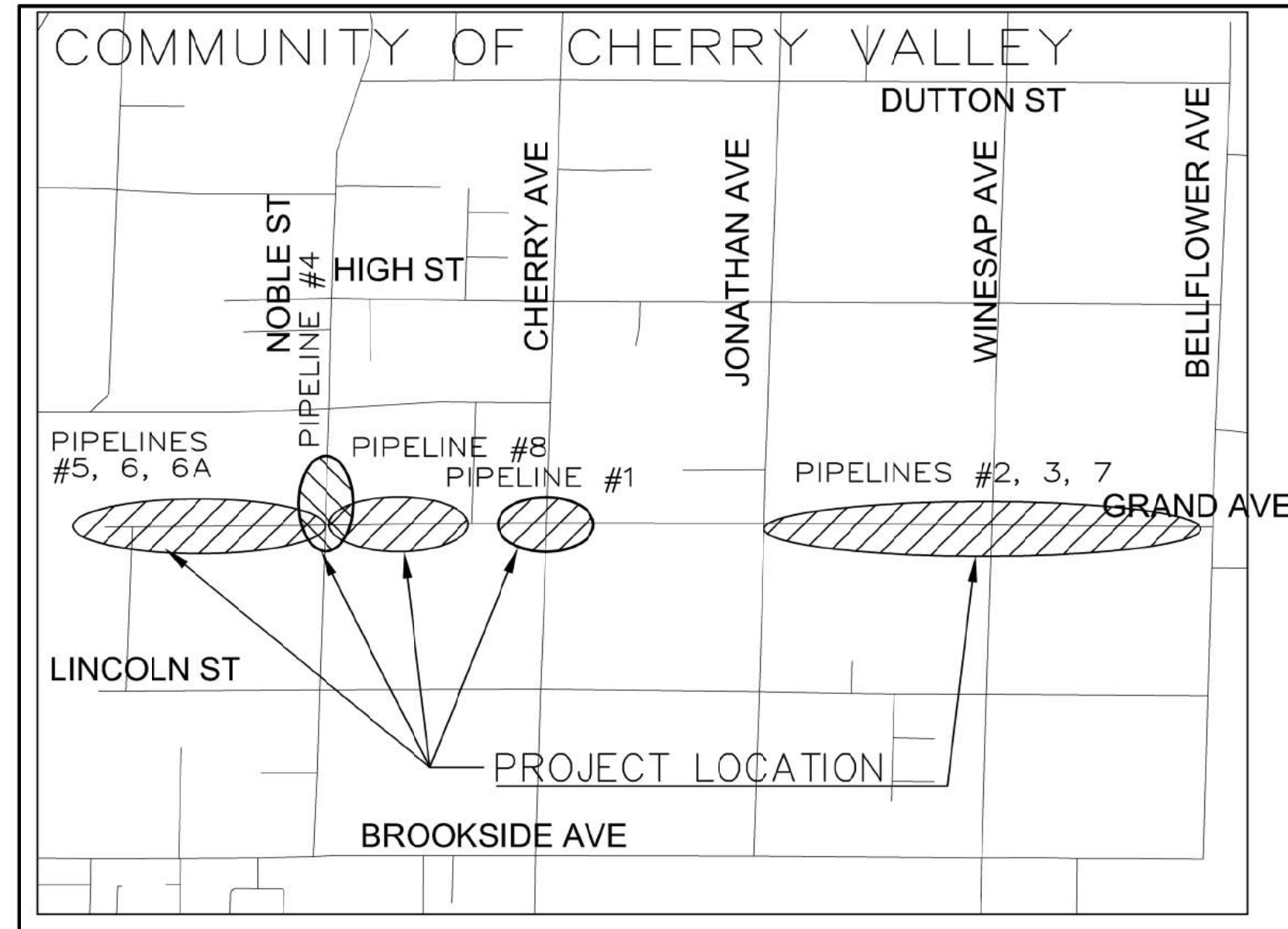
PIPELINE 7 – P-3040-0027

PIPELINE 8 – NOBLE STREET TO EL MONTE DRIVE

APPENDIX A

CONSTRUCTION PLANS

BEAUMONT-CHERRY VALLEY WATER DISTRICT PIPELINE RELOCATION PLAN FOR BEAUMONT MASTER DRAINAGE PLAN LINE 16



VICINITY MAP



GENERAL CONSTRUCTION & NOTES

1. ALL PIPELINES SHALL BE FULLY RESTRAINED WITH RESTRAINED JOINT GASKETS PER BCVWD STANDARD SPECIFICATIONS.
2. INSTALL CLASS II AGGREGATE BASE (FURNISHED BY DISTRICT) FROM TOP OF PIPE ZONE TO GROUND SURFACE ALONG ALL NEW AND EXISTING PIPELINE TRENCHES PER BCVWD PLATE 6-1 AND 6-2, OR AS APPROVED BY THE COUNTY OF RIVERSIDE IN LOCATIONS WHERE NATIVE MATERIAL IS NOT SUITABLE FOR PROPER BACKFILL AND COMPACTION.
3. DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES (PER AWWA STANDARD)
4. ALL STREET CENTERLINE STATIONING FROM BEAUMONT MDP LINE 16, STAGE 50 RECHARGE BASIN FEEDER PLANS
5. ALL PIPELINE STATIONING ALONG CENTERLINE OF PIPE, UNLESS OTHERWISE NOTED.

DISTRICT ENGINEER'S NOTICE TO CONTRACTOR(S)

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN, AND ANY OTHER LINES OR STRUCTURES NOT SHOWN ON THESE PLANS, AND IS REQUIRED FOR THE PROTECTION OF, AND ANY DAMAGE TO THESE LINES OR STRUCTURES.

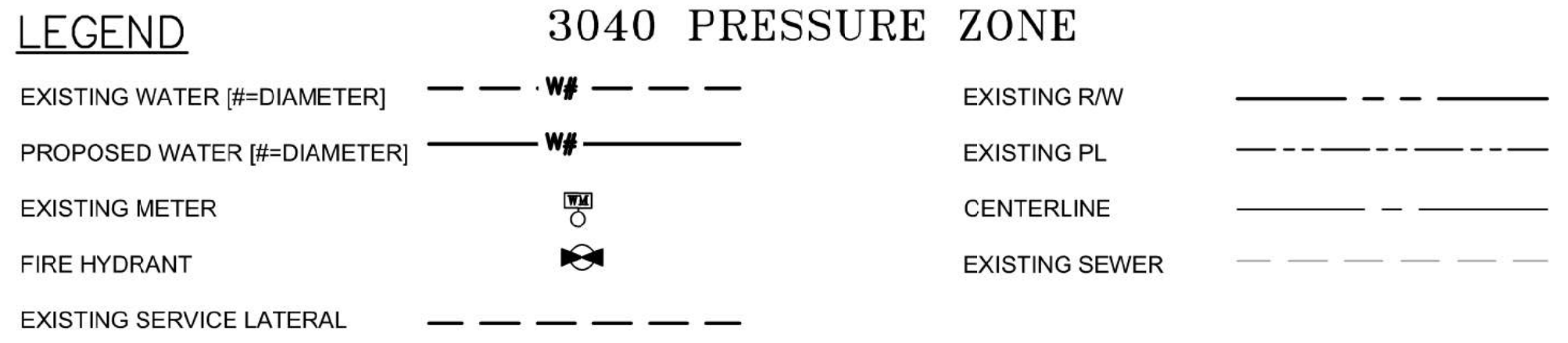
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER OF ALL UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

QUANTITIES SHOWN HEREON ARE PROVIDED FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES PRIOR TO BIDDING FOR CONSTRUCTION.

SHEET No.	DESCRIPTION
1	TITLE, SHEET INDEX, VICINITY MAP, AND CONSTRUCTION NOTES
2	PIPELINE 1: STA: 10+00 - STA: 15+48± - (GRAND AVE STA: 31+57± - STA: 37+00±)
3	PIPELINE 2: STA: 10+00 - STA: 11+81± - (GRAND AVE STA: 49+47± - STA: 51+24±) PIPELINE 3: STA: 10+00 - STA: 12+37± - (GRAND AVE STA: 62+52± - STA: 64+81±)
4	PIPELINE 4: STA: 10+00 - STA: 12+42± - (NOBLE ST STA: 10+58± - STA: 12+95±) PLATE 6-1
5	CHERRY AVENUE CUT-IN TEE DETAIL AND GRAND AVENUE - WEST OF MARTIN LANE
6	PIPELINE 6: STA: 10+00 - STA: 16+34± (MDP LINE 16 STA: 18+50± - STA: 24+82±)
7	PIPELINE 6A: STA: 5+08± - STA: 10+10± - (GRAND AVE STA: 11+60± - STA: 17+2±) (MDP LINE 16 STA: 13+50± - STA: 18+50±)
8	PIPELINE 7: STA: 30+00 - STA: 38+68± (GRAND AVE STA: 49+20± - STA: 53+25±) (MDP LINE 16: STA: 51+00 - STA: 55+20±)
9	PIPELINE 7: STA: 34+04± - STA: 40+47± - (GRAND AVE STA: 53+20± - STA: 59+65±) (MDP LINE 16: STA: 55+20± - STA: 61+63±)
10	PIPELINE 7: STA: 40+47± - STA: 46+89± - (GRAND AVE STA: 59+65± - 66+10±) (MDP LINE 16: STA: 61+63± - LINE 16-D STA: 13+80±)
11	PIPELINE 7: STA: 46+89± - STA: 52+10± - (GRAND AVE STA: 46+90± - 71+30±) (MDP LINE 16: STA: 13+80± - LINE 16-D STA: 19+00±)
12	PIPELINE 7: STA: 52+10± - STA: 56+62± - (GRAND AVE STA: 71+30± - 75+80±) (LINE 16-D: STA: 19+00± - STA: 23+61±)
13	PIPELINE 8: STA: 10+00 - STA: 14+47± - (GRAND AVE STA: 21+75± - 27+40±) - (MDP LINE 16: STA: 24+00± - STA: 29+34±)
14	PIPELINE 8: STA: 14+47± - STA: 18+81± - (GRAND AVE STA: 27+35± - 33+00±) - (MDP LINE 16: STA: 29+34± - STA: 34+97±)

SHEET INDEX



CONSTRUCTION NOTES	QTY	UNIT
1 PROTECT IN PLACE	-	-
2 INSTALL 8" DIP (CLASS 350) WITH POLYETHYLENE ENCASEMENT AND BEDDING PER BCVWD PLATE 6-1 (36" MIN COVER)	548	LF
3 INSTALL 8" - 45' FLG'D X MJ ELBOW, WITH EBAA IRON SERIES 1100 RESTRAINT	3	EA
4 INSTALL 8" FLG'D TEE	1	EA
5 INSTALL 8" FLG'D X MJ ADAPTER	4	EA
6 INSTALL 8" GATE VALVE	4	EA
7 INSTALL 8" X 4" FLG'D REDUCER	1	EA
8 INSTALL 8" TRANSITION FLEX COUPLING FROM 8.60" - 9.06" (ROMAC LONG BARREL) AND TIES PER BCVWD PLATE 9	2	EA
9 INSTALL 4" FLG'D GATE VALVE	2	EA
10 INSTALL 4" TRANSITION FLEX COUPLING FROM 4.5" - 4.81" (ROMAC LONG BARREL) AND TIES PER BCVWD PLATE 9	2	EA
11 DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES (PER AWWA STANDARD)	-	-
12 ABANDON IN PLACE EXISTING PIPELINE AND PLUG SEVERED PIPE ENDS WITH 3" MINIMUM CLASS "C" CONCRETE PLUG (EACH END)	-	-
13 INSTALL DISTRICT FURNISHED 1" SERVICE SADDLE, CORPORATION STOP, AND SERVICE LATERAL PIPING PER BCVWD STANDARD PLATE 6-3. ONCE TESTING AND DISINFECTION IS COMPLETE, REMOVE EXISTING METER AND INSTALL NEW DISTRICT FURNISHED METER AND CONNECT TO NEW SERVICE LATERAL.	14	EA
14 INSTALL RESTRAINED JOINTS (FIELD-LOK 350 GASKETS, MEGA LUGS (IF MECHANICAL JOINT) OR DISTRICT APPROVED EQUAL)	28	EA
15 INSTALL THRUST BLOCK PER BCVWD PLATE 11-1 AND 11-2 (ASSUME SOIL BEARING PRESSURE OF 1500 LB/SF)	0.10	CY
16 INSTALL 2" RISER AND TEST PLATE FOR DISINFECTION AND TESTING. REMOVE TEST PLATE AT END OF CHLORINATION AND TESTING PROCESS. REMOVE RISER AND PLUG TEST LOCATION.	10	EA
17 INSTALL 8" - 45' MJ ELBOW, WITH EBAA IRON SERIES 1100 RESTRAINT	4	EA
18 INSTALL 12" DIP (CLASS 350) WITH POLYETHYLENE ENCASEMENT AND BEDDING PER BCVWD PLATE 6-1 (36" MIN COVER)	660	LF
19 INSTALL 12" - 45' FLG'D X MJ ELBOW, WITH EBAA IRON SERIES 1100 RESTRAINT	5	EA
20 INSTALL 12" - 45' MJ ELBOW, WITH EBAA IRON SERIES 1100 RESTRAINT	7	EA
21 INSTALL 12" X 6" FLG'D REDUCER	4	EA
22 INSTALL 12" - FLG'D X MJ ADAPTER	1	EA
23 INSTALL 6" TRANSITION FLEX COUPLING FROM 6.60" - 6.91" (ROMAC LONG BARREL) AND TIES PER BCVWD PLATE 9	3	EA
24 INSTALL 6" X 36" (LONG) FLG'D X PE STL SPOOL	3	EA
25 REMOVE EXISTING 6" PIPELINE (LIMITS AS INDICATED)	55	LF
26 INSTALL 12" X 10" FLG'D REDUCER	2	EA
27 INSTALL 10" TRANSITION FLEX COUPLING FROM 10.89" - 11.40" (ROMAC LONG BARREL) AND TIES PER BCVWD PLATE 9	2	EA
28 INSTALL 10" X 36" (LONG) FLG'D X PE STL SPOOL	2	EA
29 INSTALL 4" X 36" (LONG) FLG'D X PE STL SPOOL	2	EA
30 INSTALL 16" D.I. FLG'D CROSS	1	EA
31 INSTALL 16" BUTTERFLY VALVE	2	EA
32 INSTALL 16" X 36" (LONG) FLG'D X PE STL SPOOL	2	EA
33 INSTALL 16" TRANSITION COUPLING AND TIES PER BCVWD PLATE 9. (ROMAC LONG BARREL, 16.00" - 16.40" GASKET)	2	EA
34 INSTALL 16" X 8" FLG'D REDUCER	2	EA
35 INSTALL 6" DIP (CLASS 350) WITH POLYETHYLENE ENCASEMENT AND BEDDING PER BCVWD PLATE 6-1 (36" MIN. COVER)	158	LF
36 INSTALL 6" - FLG'D TEE	1	EA
37 INSTALL 6" X 4" FLG'D ECCENTRIC REDUCER	1	EA
38 INSTALL 6" GATE VALVE PER BCVWD PLATE 2	1	EA
39 INSTALL 6" FLG'D X MJ ADAPTER	2	EA
40 INSTALL 8" X 24" (LONG) FLG'D X PE STL SPOOL	2	EA
41 INSTALL 4" BLOWOFF ASSEMBLY PER BCVWD PLATE 3-1	1	EA
42 INSTALL 12" GATE VALVE PER BCVWD PALTE 2	1	EA
43 COMPLETE ALL TRENCH EXCAVATION, BACKFILL, AND PAVEMENT REPAIR PER BCVWD PLATE 6-1	-	-
44 INSTALL 8" X 24" (LONG) FLG'D X PE DI SPOOL	1	EA
45 INSTALL 6" TRANSITION FLEX COUPLING FROM 6.60" - 6.91" X 7.15" - 7.35" (ROMAC LONG BARREL)	1	EA
46 INSTALL 6" X 36" (LONG) FLG'D X PE DI SPOOL	1	EA
47 INSTALL 10" X 8" TEE	1	EA
48 INSTALL 10" GATE VALVE	2	EA
49 WELD FLANGE TO EXISTING STEEL WATERLINE	3	EA
50 INSTALL 6" X 8" DIP FLG'D REDUCER	1	EA
51 INSTALL FIRE HYDRANT ASSEMBLY PER BCVWD STANDARD PLATE 1	2	EA

** Additional Construction Notes for Sheets 7-14 included herein with Delta 2 revision

GENERAL NOTES

1. ALL WORK SHOWN ON THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE "DISTRICT STANDARDS FOR THE FURNISHING OF MATERIALS AND THE CONSTRUCTION OF WATER AND RECYCLED WATER FACILITIES AND PREPARATION OF WATER SYSTEM PLANS," LATEST REVISION, AND THE ADOPTED ADDENDUMS THERETO.
2. WORK SHALL BE PERFORMED BY A CONTRACTOR LICENSED IN THE STATE OF CALIFORNIA, EXPERIENCED IN WATER UTILITY CONSTRUCTION.
3. UNLESS OTHERWISE INDICATED, ALL PIPES SHALL BE CEMENT MORTAR LINED DUCTILE IRON PIPE, MINIMUM PRESSURE CLASS 350, WITH PUSH-ON JOINTS. ALL PIPES SHALL BE INSTALLED WITH TRACER WIRE AND WITH POLYETHYLENE ENCASEMENT. TRACER WIRE SHALL BE 14-GAUGE, INSULATED (BLUE COLOR) SOLID COPPER WIRE.
4. FOR SEPARATION REQUIREMENTS BETWEEN WATER AND RECYCLED WATER, STORM DRAINS, AND SEWER LINES, SEE STATE OF CALIFORNIA CODE OF REGULATIONS, TITLE 22, SECTION 64572.
5. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA (TELEPHONE 811 / 800-227-2600) FOR LOCATION OF ALL UNDERGROUND UTILITIES TWO WORKING DAYS PRIOR TO COMMENCING WORK.
6. CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FROM CITY OF BEAUMONT AND/OR RIVERSIDE COUNTY, AS APPROPRIATE, PRIOR TO CONSTRUCTION.
7. CONTRACTOR SHALL NOTIFY THE DISTRICT AT (951) 845-9581 TWO WORKING DAYS PRIOR TO COMMENCING WORK ON THE WATER UTILITY INSTALLATION. CONTRACTOR SHALL NOTIFY DISTRICT BY PRECEDING WEDNESDAY AT 4:00 P.M. PRIOR TO WORKING DURING THE WEEKEND. CANCELLATIONS SHALL BE NOTIFIED TO THE DISTRICT BY PRECEDING FRIDAY AT 3:00 P.M.
8. NO EXISTING DISTRIBUTION SYSTEM VALVE SHALL BE OPERATED BY THE CONTRACTOR. DISTRICT PERSONNEL WILL OPERATE ALL NECESSARY VALVES.
9. NO DEVIATIONS FROM THESE PLANS SHALL BE PERMITTED WITHOUT THE APPROVAL OF THE DISTRICT.
10. EXISTING WATER MAINS SHALL NOT BE TAKEN OUT OF SERVICE FOR MORE THAN 4 HOURS. CONTRACTOR SHALL NOTIFY ALL WATER USERS AFFECTED BY THE SHUTDOWN A MINIMUM OF 48 HOURS PRIOR TO THE ACTUAL SHUTDOWN. INDICATE THE DATE AND PRECISE HOURS THAT THE MAIN WILL BE TAKEN OUT OF SERVICE.
11. CONTRACTOR SHALL CONFORM TO THE STREET EXCAVATION REPLACEMENT STANDARDS OF THE CITY OF BEAUMONT.
12. CONTRACTOR SHALL NOTIFY THE DISTRICT AT (951) 845-9581 TWO WORKING DAYS PRIOR TO PLACEMENT OF CONCRETE FOR SIDEWALKS.
13. CONTRACTOR TO INSTALL MINIMUM 1" COPPER, TYPE K, SERVICE LATERALS IN ACCORDANCE WITH DISTRICT SPECIFICATIONS SHOWN ON DISTRICT STANDARD PLATE 6-2, PLATE 6-3, AND PLATE 12. ALL COPPER SERVICES SHALL BE INSTALLED WITH TAPE WRAP AND WITH POLYETHYLENE ENCASEMENT.
14. CONTRACTOR SHALL COORDINATE ALL RECONNECTS WITH DISTRICT PERSONNEL PRIOR TO ANY CONNECTIONS OR RETIREMENTS OF ANY DISTRICT FACILITIES.
15. CONTRACTOR SHALL BEAR ALL COSTS FOR THE CORRECTION OR REMOVAL AND REPLACEMENT OF DEFECTIVE WORK, AND ALL ADDITIONAL DIRECT AND INDIRECT COSTS THE CITY, COUNTY, OR DISTRICT MAY INCUR ON ACCOUNT OF DEFECTIVE WORK, INCLUDING THE COSTS OF ADDITIONAL ADMINISTRATIVE, PROFESSIONAL CONSULTANT, INSPECTION, TESTING, AND OTHER SERVICES.
16. ALL PIPE SHALL BE HYDRO TESTED, DISINFECTED AND APPROVED PRIOR TO FINAL CONNECTION TO EXISTING WATER LINES.
17. ALL MATERIALS SHALL BE OF DOMESTIC ORIGIN AND NOT OF FOREIGN MANUFACTURE.
18. CONTRACTOR SHALL FURNISH TO THE DISTRICT COPIES OF ALL SOIL COMPACTION TEST REPORTS FOR THE INSTALLED WATER MAINS TWO (2) WORKING DAYS PRIOR TO HYDRO TESTING OF PIPELINES.
19. CONTRACTOR SHALL FURNISH DISTRICT WITH PROJECT SPECIFIC MATERIALS OF CONSTRUCTION SUBMITTALS (IN PDF FORMAT) FOR REVIEW APPROVAL PRIOR TO COMMENCING CONSTRUCTION.
20. CONTRACTOR SHALL KEEP AND MAINTAIN AT THE JOB SITE ONE (1) SET OF RECORD DRAWINGS. CONTRACTOR SHALL MARK ON DRAWINGS ALL CHANGES IN PROJECT CONDITIONS, LOCATIONS, CONFIGURATIONS AND ANY DEVIATIONS WHICH MAY VARY FROM THE DRAWINGS. THESE MASTER RECORD DRAWINGS SHALL BE MAINTAINED AND UP TO DATE DURING THE PROGRESS OF WORK. RECORD DRAWINGS SHALL BE ACCESSIBLE TO THE DISTRICT AT ALL TIMES DURING CONSTRUCTION AND A COPY OF SAID RECORD DRAWINGS SHALL BE DELIVERED TO THE DISTRICT UPON COMPLETION OF THE WORK.

CONTRACTOR'S RESPONSIBILITY FOR THE JOB SITE

CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

ABBREVIATIONS

BEAUMONT-CHERRY VALLEY WATER DISTRICT.....	BCVWD
DUCTILE IRON PIPE.....	DIP
EXISTING.....	EXT
NOT TO SCALE.....	NTS
PROPOSED.....	PROP
STATION.....	STA
STEEL.....	STL
PROTECT IN PLACE.....	PIP
FLANGED.....	FLG'D
MECHANICAL JOINT.....	MJ
PLAIN END.....	PE

NOTE:
WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT HAS BEEN ISSUED.

"FOR BIDDING PURPOSES ONLY" PZ 3040

48 hours BEFORE excavation
1-(800)227-2600
CALL Underground Service Alert

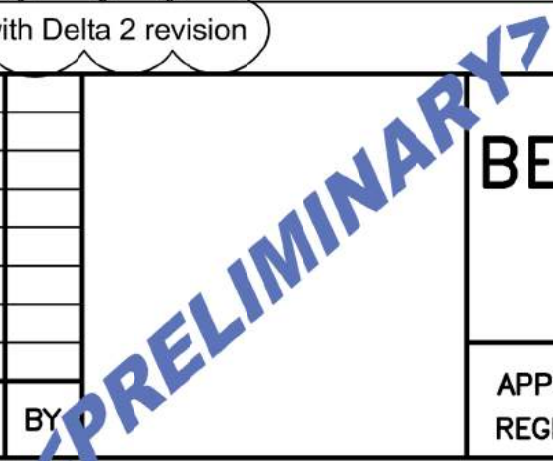
SYMBOL	REVISIONS	DATE	BY
▲	ADD SHEETS 7-14; DESIGN FOR PIPELINES 6A, 7, AND 8		
▲	ADD DESIGN FOR PIPELINE 6 WEST OF NOBLE STREET		

BEAUMONT-CHERRY VALLEY WATER DISTRICT

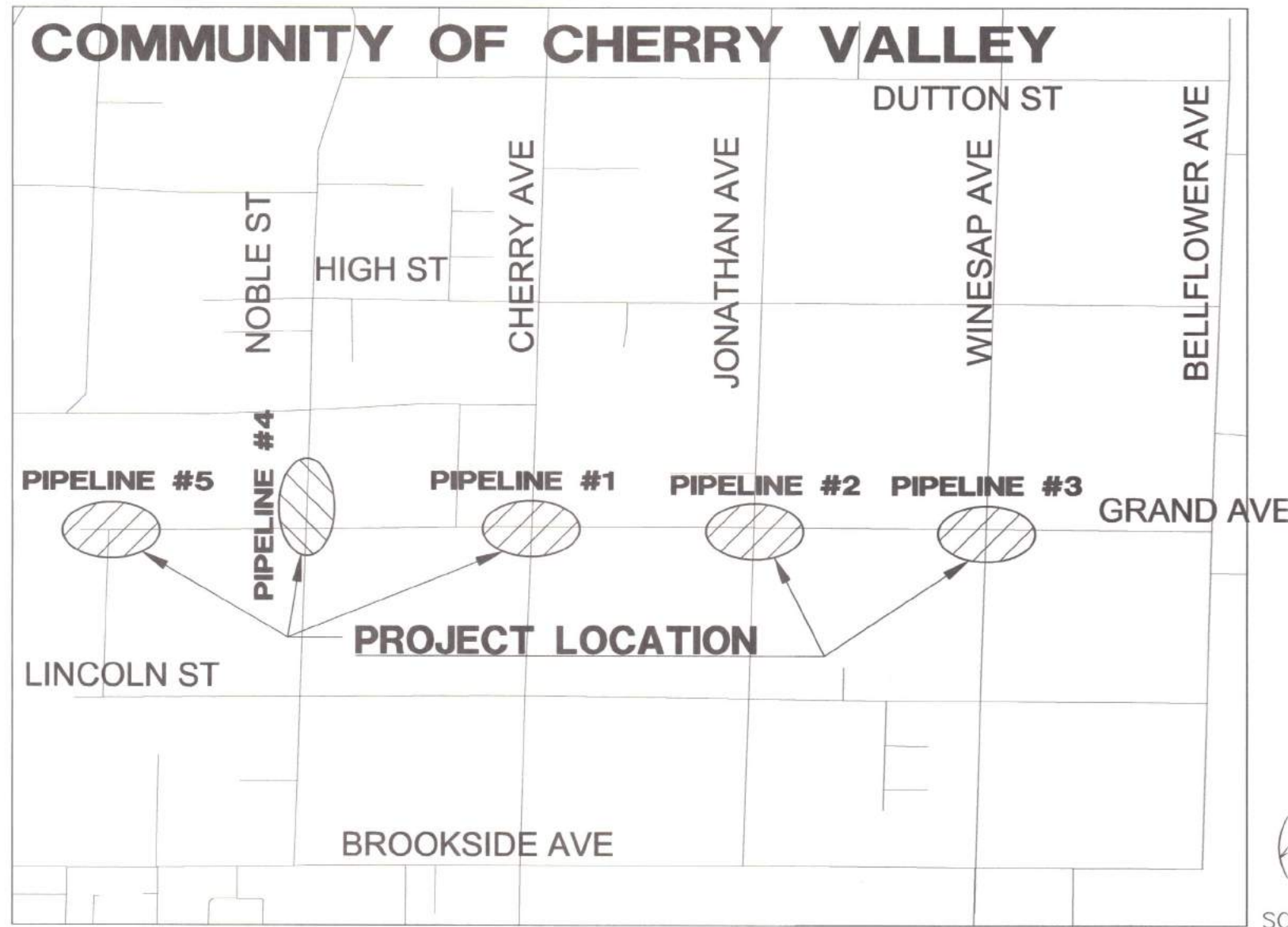
560 Magnolia Ave. • Beaumont, CA. 92223 • 951-845-9581

APPROVED BY _____ DATE _____
REGISTERED ENGINEER No. _____

SCALE AS NOTED	BCVWD	SHEET 1
FIELD BOOK N/A	PIPELINE RELOCATION PLAN	OF 14 SHEETS
DESIGN EJW	TITLE, SHEET INDEX, VICINITY MAP, AND CONSTRUCTION NOTES	WO ### 2021-0007
DRAWN EJW		
CHECKED MRS		



BEAUMONT-CHERRY VALLEY WATER DISTRICT PIPELINE RELOCATION PLAN FOR BEAUMONT MASTER DRAINAGE PLAN LINE 16 3040 PRESSURE ZONE



VICINITY MAP

GENERAL CONSTRUCTION & NOTES

1. ALL PIPELINES SHALL BE FULLY RESTRAINED WITH RESTRAINED JOINT GASKETS PER BCVWD STANDARD SPECIFICATIONS.
2. INSTALL CLASS II AGGREGATE BASE (FURNISHED BY DISTRICT) FROM TOP OF PIPE ZONE TO GROUND SURFACE ALONG ALL NEW AND EXISTING PIPELINE TRENCHES PER BCVWD PLATE 6-1 AND 6-2, OR AS APPROVED BY THE COUNTY OF RIVERSIDE IN LOCATIONS WHERE NATIVE MATERIAL IS NOT SUITABLE FOR PROPER BACKFILL AND COMPACTION.
3. DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES (PER AWWA STANDARD)
4. ALL STREET CENTERLINE STATIONING FROM BEAUMONT MDP LINE 16, STAGE 50 RECHARGE BASIN FEEDER PLANS
5. ALL PIPELINE STATIONING ALONG CENTERLINE OF PIPE, UNLESS OTHERWISE NOTED.

DISTRICT ENGINEER'S NOTICE TO CONTRACTOR(S)

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE ALL PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN, AND ANY OTHER LINES OR STRUCTURES NOT SHOWN ON THESE PLANS, AND IS REQUIRED FOR THE PROTECTION OF, AND ANY DAMAGE TO THESE LINES OR STRUCTURES.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER OF ALL UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK.

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR/OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

QUANTITIES SHOWN HEREON ARE PROVIDED FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES PRIOR TO BIDDING FOR CONSTRUCTION.

SHEET No.	DESCRIPTION
1	TITLE, SHEET INDEX, VICINITY MAP, AND CONSTRUCTION NOTES
2	PIPELINE 1: STA.: 10+00 - STA.: 15+48± (GRAND AVE STA.: 31+57± - STA.: 37+00±)
3	PIPELINE 2: STA.: 10+00 - STA.: 11+81± (GRAND AVE STA.: 49+47± - STA.: 51+24±) PIPELINE 3: STA.: 10+00 - STA.: 12+37± (GRAND AVE STA.: 62+52± - STA.: 64+81±)
4	PIPELINE 4: STA.: 10+00 - STA.: 12+42± (NOBLE ST STA.: 10+58± - STA.: 12+95±) PLATE 6-1
5	CHERRY AVENUE CUT-IN TEE DETAIL AND GRAND AVENUE - WEST OF MARTIN LANE

SHEET INDEX

NOTE:
WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT HAS BEEN ISSUED.

BENCHMARK: NAVD88 DATUM Z-17350
FD 1/2" IR WY RCFC TS CAP FL
EL. 2816.73

48 hours BEFORE excavation
1-(800)227-2600
CALL Underground Service Alert

BEAUMONT-CHERRY VALLEY WATER DISTRICT
ENGINEERING TRANSMISSION & DISTRIBUTION
09-23-2021

LEGEND

EXISTING WATER (#=DIAMETER)	--- W# ---
PROPOSED WATER (#=DIAMETER)	--- W# ---
EXISTING METER	⊕
FIRE HYDRANT	⊕
EXISTING SERVICE LATERAL	---
EXISTING RW	---
EXISTING PL	---
CENTERLINE	---
EXISTING SEWER	---

ABBREVIATIONS

BEAUMONT-CHERRY VALLEY WATER DISTRICT	BCVWD
DUCTILE IRON PIPE	DIP
EXISTING	EX
NOT TO SCALE	NTS
PROPOSED	PROP
STATION	STA
STEEL	STL
PROTECT IN PLACE	PIP
FLANGED	FLGD
MECHANICAL JOINT	MJ
PLAIN END	PE

CONSTRUCTION NOTES	QTY	UNIT
1) PROTECT IN PLACE	-	-
2) INSTALL 8" DIP (CLASS 350) WITH POLYETHYLENE ENCASEMENT AND BEDDING PER BCVWD PLATE 6-1 (36" MIN COVER)	548	LF
3) INSTALL 8" - 45' FLG'D X MJ ELBOW, WITH EBAA IRON SERIES 1100 RESTRAINT	3	EA
4) INSTALL 8" FLG'D TEE	1	EA
5) INSTALL 8" FLG'D X MJ ADAPTER	4	EA
6) INSTALL 8" GATE VALVE	4	EA
7) INSTALL 8" X 4" FLG'D REDUCER	1	EA
8) INSTALL 8" TRANSITION FLEX COUPLING FROM 8.60" - 9.06" (ROMAC LONG BARREL) AND TIES PER BCVWD PLATE 9	2	EA
9) INSTALL 4" FLG'D GATE VALVE	2	EA
10) INSTALL 4" TRANSITION FLEX COUPLING FROM 4.5" - 4.81" (ROMAC LONG BARREL) AND TIES PER BCVWD PLATE 9	2	EA
11) DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES (PER AWWA STANDARD)	-	-
12) ABANDON IN PLACE EXISTING PIPELINE AND PLUG SEVERED PIPE ENDS WITH 3" MINIMUM CLASS "C" CONCRETE PLUG (EACH END)	-	-
13) INSTALL DISTRICT FURNISHED 1" SERVICE SADDLE, CORPOF AND DISINFECTION IS COMPLETE, REMOVE EXISTING METER	14	EA
14) INSTALL RESTRAINED JOINTS (FIELD-LOK 350 GASKETS, M QUAL)	28	EA
15) INSTALL THRUST BLOCK PER BCVWD PLATE 11-1 AND 11-2 (ASSUME SOIL BEARING CAPACITY OF 1000 LB/SQ FT)	0.10	CY
16) INSTALL 2" RISER AND TEST PLATE FOR DISINFECTION AND TESTING. REMOVE TEST PLATE AT END OF CHLORINATION AND TESTING PROCESS. REMOVE RISER AND PLUG TEST LOCATION.	10	EA
17) INSTALL 8" - 45' MJ ELBOW, WITH EBAA IRON SERIES 1100 RESTRAINT	4	EA
18) INSTALL 12" DIP (CLASS 350) WITH POLYETHYLENE ENCASEMENT AND BEDDING PER BCVWD PLATE 6-1 (36" MIN COVER)	660	LF
19) INSTALL 12" - 45' FLG'D X MJ ELBOW, WITH EBAA IRON SERIES 1100 RESTRAINT	5	EA
20) INSTALL 12" - 45' MJ ELBOW, WITH EBAA IRON SERIES 1100 RESTRAINT	7	EA
21) INSTALL 12" X 6" FLG'D REDUCER	4	EA
22) INSTALL 12" - FLG'D X MJ ADAPTER	1	EA
23) INSTALL 6" TRANSITION FLEX COUPLING FROM 6.60" - 6.91" (ROMAC LONG BARREL) AND TIES PER BCVWD PLATE 9	3	EA
24) INSTALL 6" X 36" (LONG) FLG'D X PE STL SPOOL	3	EA
25) REMOVE EXISTING 6" PIPELINE (LIMITS AS INDICATED)	55	LF
26) INSTALL 12" X 10" FLG'D REDUCER	2	EA
27) INSTALL 10" TRANSITION FLEX COUPLING FROM 10.89" - 11.40" (ROMAC LONG BARREL) AND TIES PER BCVWD PLATE 9	2	EA
28) INSTALL 6" X 36" (LONG) FLG'D X PE STL SPOOL	2	EA
29) INSTALL 4" X 36" (LONG) FLG'D X PE STL SPOOL	2	EA
30) INSTALL 16" D.I. FLG'D CROSS	1	EA
31) INSTALL 16" BUTTERFLY VALVE	2	EA
32) INSTALL 16" X 36" (LONG) FLG'D X PE STL SPOOL	2	EA
33) INSTALL 16" TRANSITION COUPLING AND TIES PER BCVWD PLATE 9. (ROMAC LONG BARREL, 16.00" - 16.40" GASKET)	2	EA
34) INSTALL 16" X 8" FLG'D REDUCER	2	EA
35) INSTALL 6" DIP (CLASS 350) WITH POLYETHYLENE ENCASEMENT AND BEDDING PER BCVWD PLATE 6-1 (36" MIN. COVER)	158	LF
36) INSTALL 6" - FLG'D TEE	1	EA
37) INSTALL 6" X 4" FLG'D ECCENTRIC REDUCER	1	EA
39) INSTALL 6" GATE VALVE PER BCVWD PLATE 2	1	EA
40) INSTALL 6" FLG'D X MJ ADAPTER	2	EA
41) INSTALL 8" X 24" (LONG) FLG'D X PE STL SPOOL	2	EA
42) INSTALL 4" BLOWOFF ASSEMBLY PER BCVWD PLATE 3-1	1	EA
43) INSTALL 12" GATE VALVE PER BCVWD PALTE 2	1	EA
44) COMPLETE ALL TRENCH EXCAVATION, BACKFILL, AND PAVEMENT REPAIR PER BCVWD PLATE 6-1	-	-
45) INSTALL 8" X 24" (LONG) FLG'D X PE DI SPOOL	1	EA
46) INSTALL 6" TRANSITION FLEX COUPLING FROM 6.60" - 6.91" x 7.15" - 7.35" (ROMAC LONG BARREL)	1	EA
47) INSTALL 6" X 36" (LONG) FLG'D X PE DI SPOOL	1	EA

NOT A PART

GENERAL NOTES

1. ALL WORK SHOWN ON THESE PLANS SHALL BE PERFORMED IN ACCORDANCE WITH THE "DISTRICT STANDARDS FOR THE FURNISHING OF MATERIALS AND THE CONSTRUCTION OF WATER AND RECYCLED WATER FACILITIES AND PREPARATION OF WATER SYSTEM PLANS," LATEST EDITION, AND THE ADOPTED ADDENDUMS THERETO.
2. WORK SHALL BE PERFORMED BY A CONTRACTOR LICENSED IN THE STATE OF CALIFORNIA, EXPERIENCED IN WATER UTILITY CONSTRUCTION.
3. UNLESS OTHERWISE INDICATED, ALL PIPES SHALL BE CEMENT MORTAR LINED DUCTILE IRON PIPE, MINIMUM PRESSURE CLASS 350, WITH PUSH-ON JOINTS. ALL PIPES SHALL BE INSTALLED WITH TRACER WIRE AND WITH POLYETHYLENE ENCASEMENT. TRACER WIRE SHALL BE 14-GAUGE, INSULATED (BLUE COLOR) SOLID COPPER WIRE.
4. FOR SEPARATION REQUIREMENTS BETWEEN WATER AND RECYCLED WATER, STORM DRAIN AND SEWER LINES, SEE STATE OF CALIFORNIA CODE OF REGULATIONS, TITLE 22 SECTION 64572.
5. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA (TELEPHONE 811 / 800-227-2600) FOR LOCATION OF ALL UNDERGROUND UTILITIES TWO WORKING DAYS PRIOR TO COMMENCING WORK.
6. CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FROM CITY OF BEAUMONT AND/OR RIVERSIDE COUNTY, AS APPROPRIATE, PRIOR TO CONSTRUCTION.
7. CONTRACTOR SHALL NOTIFY THE DISTRICT AT (951) 845-9581 TWO WORKING DAYS PRIOR TO COMMENCING WORK ON THE WATER UTILITY INSTALLATION. CONTRACTOR SHALL NOTIFY DISTRICT BY PRECEDING WEDNESDAY AT 4:00 P.M. PRIOR TO WORKING DURING THE WEEKEND. CANCELLATIONS SHALL BE NOTIFIED TO THE DISTRICT BY PRECEDING FRIDAY AT 3:00 P.M.
8. NO EXISTING DISTRIBUTION SYSTEM VALVE SHALL BE OPERATED BY THE CONTRACTOR. DISTRICT PERSONNEL WILL OPERATE ALL NECESSARY VALVES.
9. NO DEVIATIONS FROM THESE PLANS SHALL BE PERMITTED WITHOUT THE APPROVAL OF THE DISTRICT.
10. EXISTING WATER MAINS SHALL NOT BE TAKEN OUT OF SERVICE FOR MORE THAN 4 HOURS. CONTRACTOR SHALL NOTIFY ALL WATER USERS AFFECTED BY THE SHUTDOWN A MINIMUM OF 48 HOURS PRIOR TO THE ACTUAL SHUTDOWN. INDICATE THE DATE AND PRECISE HOURS THAT THE MAIN WILL BE TAKEN OUT OF SERVICE.
11. CONTRACTOR SHALL CONFORM TO THE STREET EXCAVATION REPLACEMENT STANDARDS OF THE CITY OF BEAUMONT.
12. CONTRACTOR SHALL NOTIFY THE DISTRICT AT (951) 845-9581 TWO WORKING DAYS PRIOR TO PLACEMENT OF CONCRETE FOR SIDEWALKS.
13. CONTRACTOR TO INSTALL MINIMUM 1" COPPER, TYPE K, SERVICE LATERALS IN ACCORDANCE WITH DISTRICT SPECIFICATIONS SHOWN ON DISTRICT STANDARD PLATE 6-2, PLATE 6-3, AND PLATE 12. ALL COPPER SERVICES SHALL BE INSTALLED WITH TAPE WRAP AND WITH POLYETHYLENE ENCASEMENT.
14. CONTRACTOR SHALL COORDINATE ALL RECONNECTS WITH DISTRICT PERSONNEL PRIOR TO ANY CONNECTIONS OR RETIREMENTS OF ANY DISTRICT FACILITIES.
15. CONTRACTOR SHALL BEAR ALL COSTS FOR THE CORRECTION OR REMOVAL AND REPLACEMENT OF DEFECTIVE WORK, AND ALL ADDITIONAL DIRECT AND INDIRECT COSTS THE CITY, COUNTY, OR DISTRICT MAY INCUR ON ACCOUNT OF DEFECTIVE WORK, INCLUDING THE COSTS OF ADDITIONAL ADMINISTRATIVE, PROFESSIONAL CONSULTANT, INSPECTION, TESTING, AND OTHER SERVICES.
16. ALL PIPE SHALL BE HYDRO TESTED, DISINFECTED AND APPROVED PRIOR TO FINAL CONNECTION TO EXISTING WATER LINES.
17. ALL MATERIALS SHALL BE OF DOMESTIC ORIGIN AND NOT OF FOREIGN MANUFACTURE.
18. CONTRACTOR SHALL FURNISH TO THE DISTRICT COPIES OF ALL SOIL COMPACTION TEST REPORTS FOR THE INSTALLED WATER MAINS TWO (2) WORKING DAYS PRIOR TO HYDRO TESTING OF PIPELINES.
19. CONTRACTOR SHALL FURNISH DISTRICT WITH PROJECT SPECIFIC MATERIALS OF CONSTRUCTION SUBMITTALS (IN PDF FORMAT) FOR REVIEW APPROVAL PRIOR TO COMMENCING CONSTRUCTION.
20. CONTRACTOR SHALL KEEP AND MAINTAIN AT THE JOB SITE ONE (1) SET OF RECORD DRAWINGS. CONTRACTOR SHALL MARK ON DRAWINGS ALL CHANGES IN PROJECT CONDITIONS, LOCATIONS, CONFIGURATIONS AND ANY DEVIATIONS WHICH MAY VARY FROM THE DRAWINGS. THESE MASTER RECORD DRAWINGS SHALL BE MAINTAINED AND UP TO DATE DURING THE PROGRESS OF WORK. RECORD DRAWINGS SHALL BE ACCESSIBLE TO THE DISTRICT AT ALL TIMES DURING CONSTRUCTION AND A COPY OF SAID RECORD DRAWINGS SHALL BE DELIVERED TO THE DISTRICT UPON COMPLETION OF THE WORK.

CONTRACTOR'S RESPONSIBILITY FOR THE JOB SITE

CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

PZ 3040



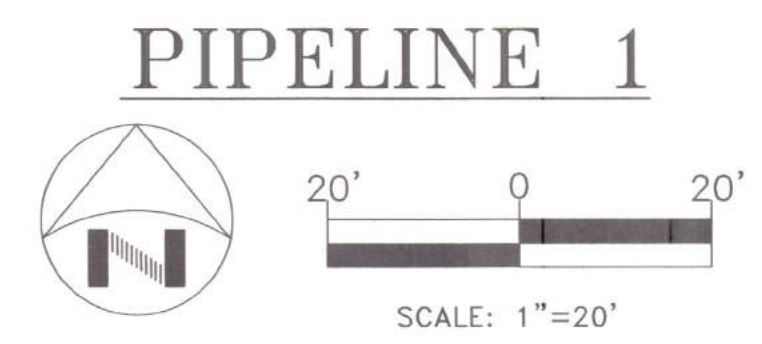
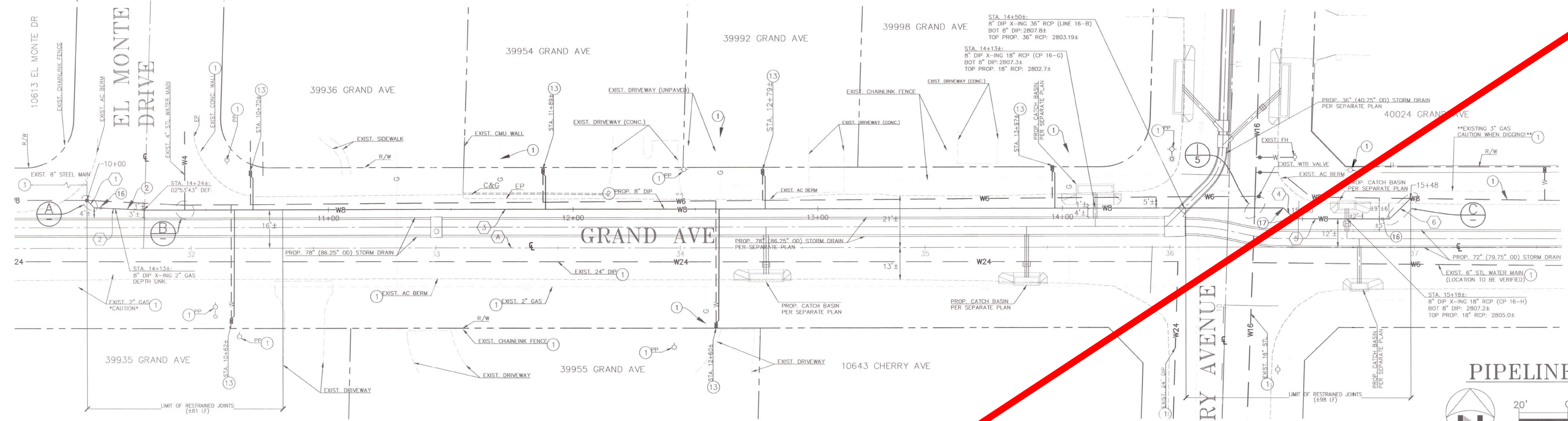
BEAUMONT-CHERRY VALLEY WATER DISTRICT
560 Magnolia Ave. • Beaumont, CA. 92223 • 951-845-9581

APPROVED BY: _____
REGISTERED ENGINEER No. 72332 DATE 9/29/21

SCALE	AS NOTED	BCVWD PIPELINE RELOCATION PLAN TITLE, SHEET INDEX, VICINITY MAP, AND CONSTRUCTION NOTES	SHEET	1
FIELD BOOK	N/A		OF 8 SHEETS	970 W
DESIGN	DAB		FILE No.	
DRAWN	DAB			
CHECKED	MBS			

REC'D COUNTY OVERSIGHT ENGINEER REGISTRATION # 78450 DATE SIGNED 9/29/21
APPROVED AS TO COMPLIANCE WITH APPLICABLE COUNTY STANDARDS AND PRACTICES (TRANSPORTATION DEPARTMENT ONLY - ROW/DISTRICT)

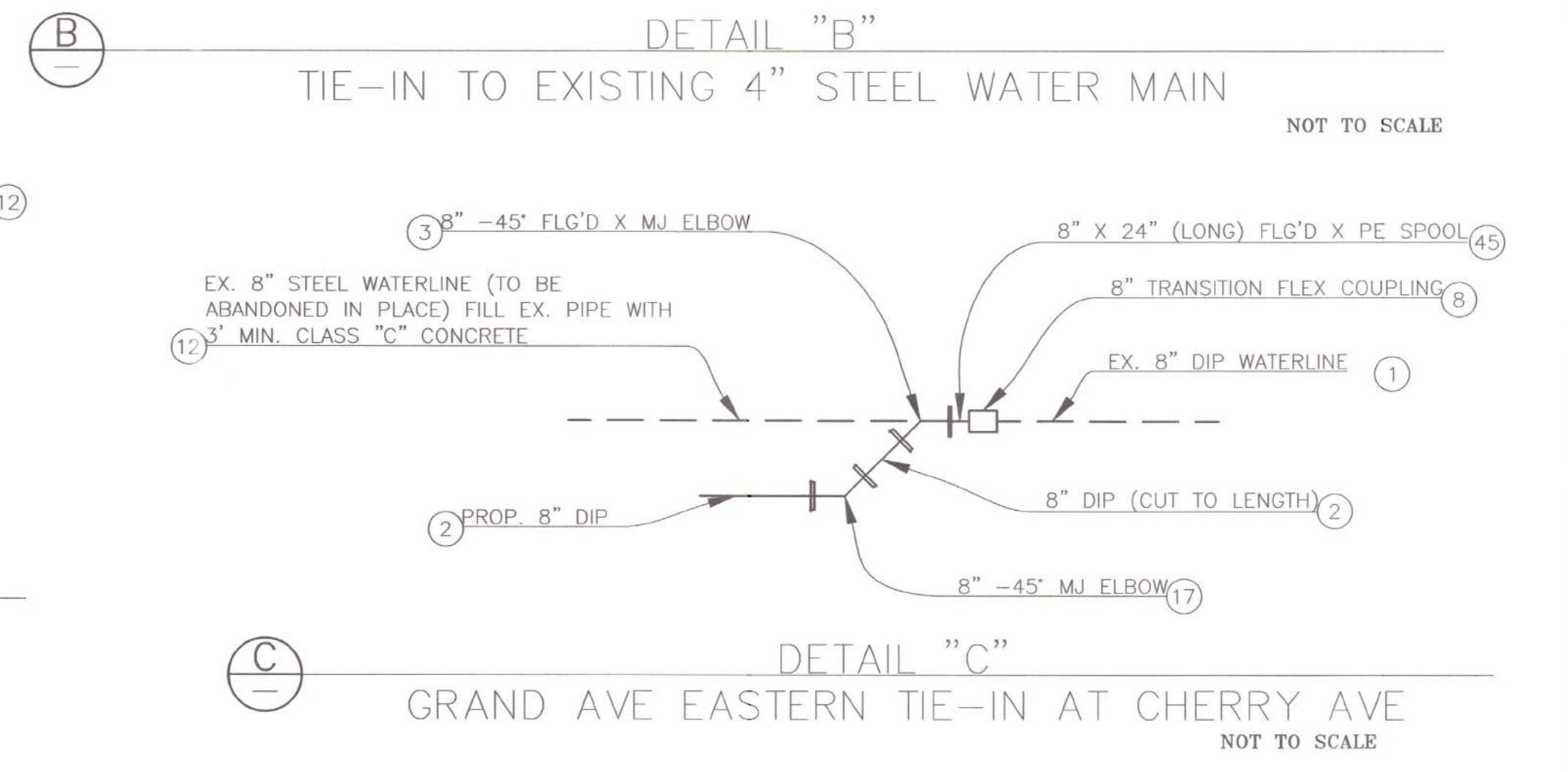
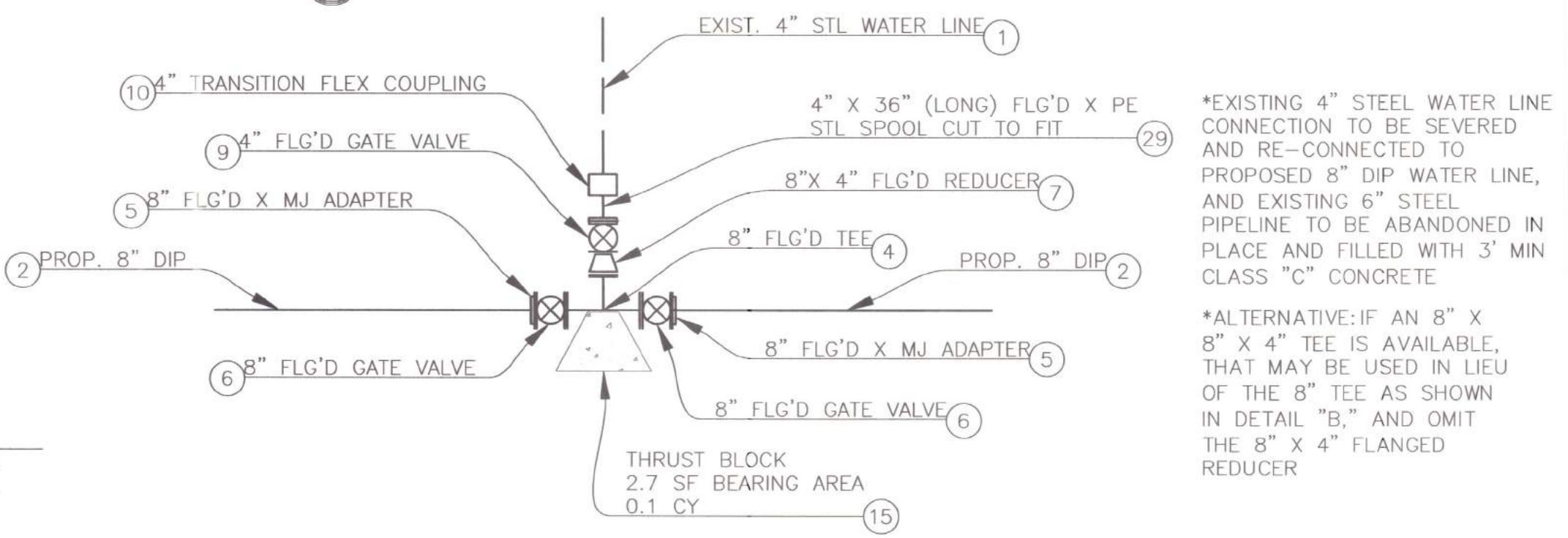
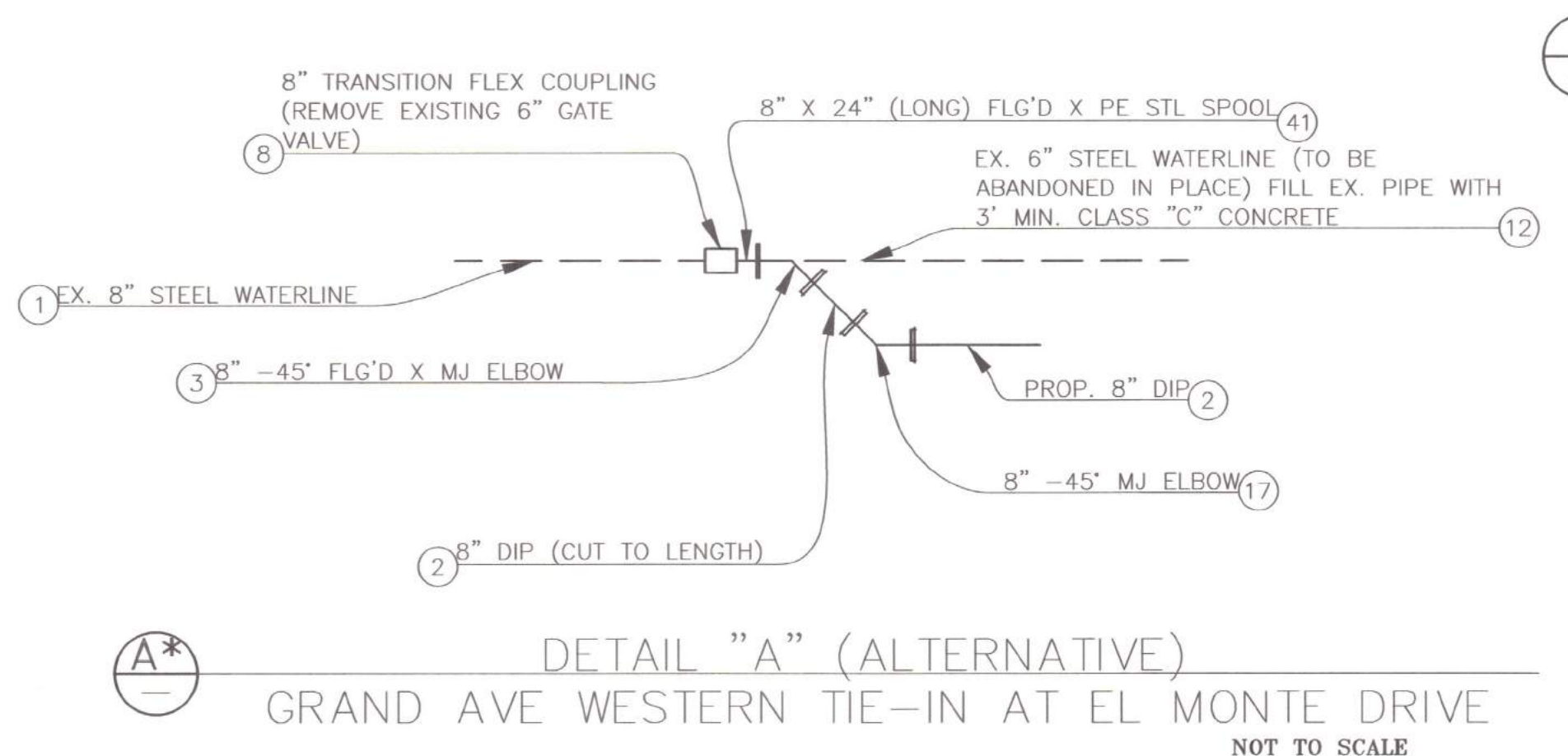
2021-007



- CONSTRUCTION NOTES**
- PROTECT IN PLACE
 - INSTALL 8" DIP (CLASS 350) WITH POLYETHYLENE ENCASEMENT AND BEDDING PER BCVWD PLATE 6-1 (36" MIN COVER)
 - INSTALL 8" - 45' FLG'D X MJ ELBOW, WITH EBAA IRON SERIES 1100 RESTRAINT
 - INSTALL 8" FLG'D TEE
 - INSTALL 8" FLG'D X MJ ADAPTER
 - INSTALL 8" GATE VALVE
 - INSTALL 8" X 4" FLG'D REDUCER
 - INSTALL 8" TRANSITION FLEX COUPLING FROM 8.60" - 9.60" (ROMAC LONG BARREL) AND TIES PER BCVWD PLATE 9
 - INSTALL 4" FLG'D GATE VALVE
 - INSTALL 4" TRANSITION FLEX COUPLING FROM 3.80" - 4.05" (ROMAC LONG BARREL) AND TIES PER BCVWD PLATE 9
 - DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES (PER AWWA STANDARD)
 - ABANDON IN PLACE EXISTING PIPELINE AND PLUG SEVERED PIPE ENDS WITH 3" MINIMUM CLASS "C" CONCRETE PLUG
 - INSTALL DISTRICT FURNISHED 1" SERVICE SADDLE, CORPORATION STOP, AND SERVICE LATERAL PIPING PER BCVWD STANDARD PLATE 6-3. ONCE TESTING AND DISINFECTION IS COMPLETE, REMOVE EXISTING METER AND INSTALL NEW DISTRICT FURNISHED METER AND CONNECT TO NEW SERVICE LATERAL.
 - INSTALL RESTRAINED JOINTS (FIELD-LOK 350 GASKETS, MEGA LUGS (IF MECHANICAL JOINT) OR DISTRICT APPROVED EQUAL)
 - INSTALL THRUST BLOCK PER BCVWD PLATE 11-1 AND 11-2 (ASSUME SOIL BEARING PRESSURE OF 1500 LB/SF)
 - INSTALL 2" RISER AND TEST PLATE FOR DISINFECTION AND TESTING. REMOVE TEST PLATE AT END OF CHLORINATION AND TESTING PROCESS. REMOVE RISER AND PLUG TEST LOCATION.
 - INSTALL 8" - 45' MJ ELBOW, WITH EBAA IRON SERIES 1100 RESTRAINT
 - INSTALL 4" X 36" (LONG) FLG'D X PE STL SPOOL
 - INSTALL 8" X 24" (LONG) FLG'D X PE STL SPOOL
 - INSTALL 8" X 24" (LONG) FLG'D X PE DI SPOOL

LINE/CURVE DATA TABLE

	BEARING/DELTA	RADIUS	LENGTH(±) (LF)
1	N 45°01'55" W	-	4
2	N 87°12'33" W	-	20
3	N 89°53'44" E	-	466
4	N 44°15'53" W	-	6
5	N 89°58'17" E	-	39
6	N 45°44'07" E	-	12
GRAND AVENUE CENTERLINE DATA TABLE			
A	N 89°56'57" E	-	632



- GENERAL CONSTRUCTION & NOTES**
- ALL PIPELINES SHALL BE FULLY RESTRAINED WITH RESTRAINED JOINT GASKETS PER BCVWD STANDARD SPECIFICATIONS.
 - FURNISH AND INSTALL CLASS II AGGREGATE BASE FROM TOP OF PIPE ZONE TO GROUND SURFACE ALONG ALL NEW AND EXISTING PIPELINE TRENCHES PER BCVWD PLATE 6-1 AND 6-2, OR AS APPROVED BY THE COUNTY OF RIVERSIDE IN LOCATIONS WHERE NATIVE MATERIAL IS NOT SUITABLE FOR PROPER BACKFILL AND COMPACTION.
 - DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES PER AWWA STANDARD
 - ALL STREET CENTERLINE STATIONING FROM BEAUMONT MDP LINE, STAGE 50 RECHARGE BASIN FEEDER PLANS.
 - ALL PIPELINE STATIONING ALONG CENTERLINE OF PIPE, UNLESS OTHERWISE NOTED.

NOTE: WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT HAS BEEN ISSUED.

BENCHMARK: NAVD88 DATUM 2-17350
FD 1/2" IR W/ RCFC TS CAP
FL
EL. 2816.73

BEAUMONT-CHERRY VALLEY WATER DISTRICT

48 hours BEFORE excavation
CALL Underground Service Alert
1-(800)227-2600

ENGINEER: [Signature]
TRANSMISSION & DISTRIBUTION
09-23-2021



BEAUMONT-CHERRY VALLEY WATER DISTRICT

560 Magnolia Ave. • Beaumont, CA. 92223 • 951-845-9581

APPROVED BY: [Signature]
REGISTERED ENGINEER No. 72332 DATE 7/29/21

SCALE AS NOTED

FIELD BOOK	N/A
DESIGN	DAB
DRAWN	DAB
CHECKED	MBS

BCVWD

PIPELINE RELOCATION PLAN

PIPELINE 1: STA.: 10+00 - STA.: 15+48±
(GRAND AVE STA.: 31+57± - STA.: 37+00±)

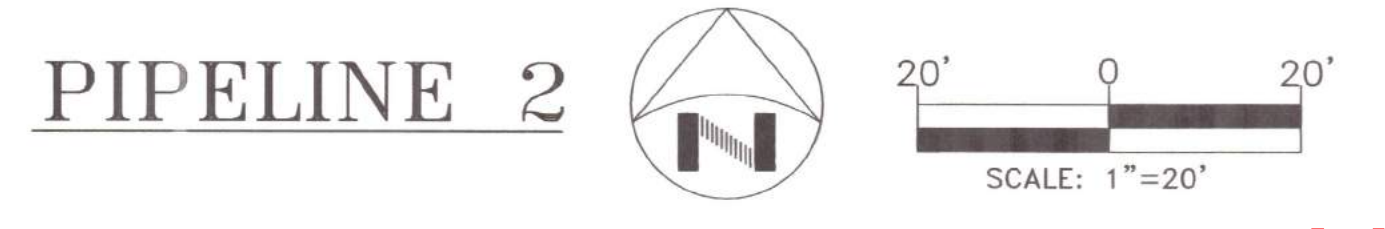
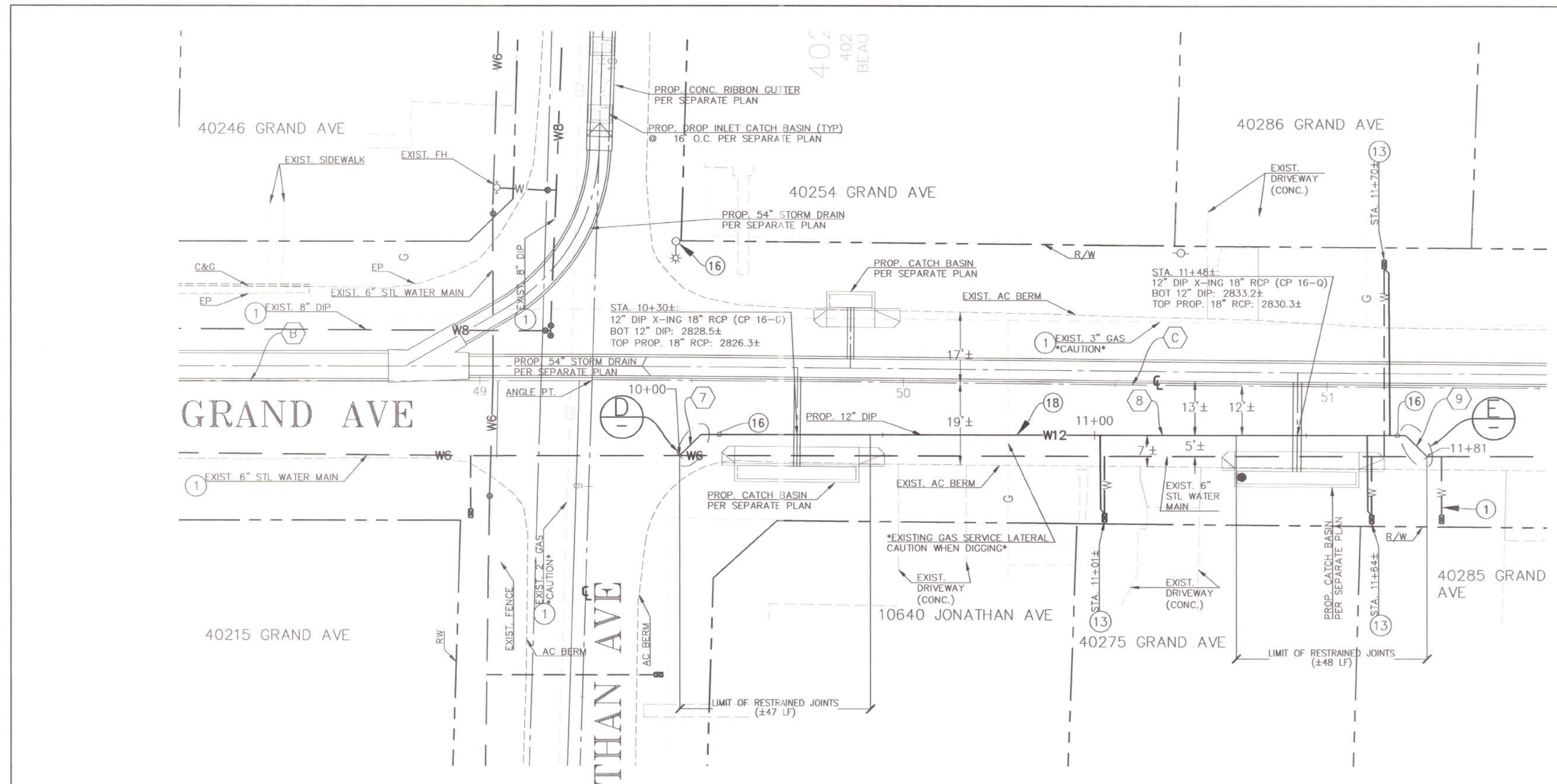
PZ 3040

SHEET 2 OF 6 SHEETS
970 W. FILE NO.

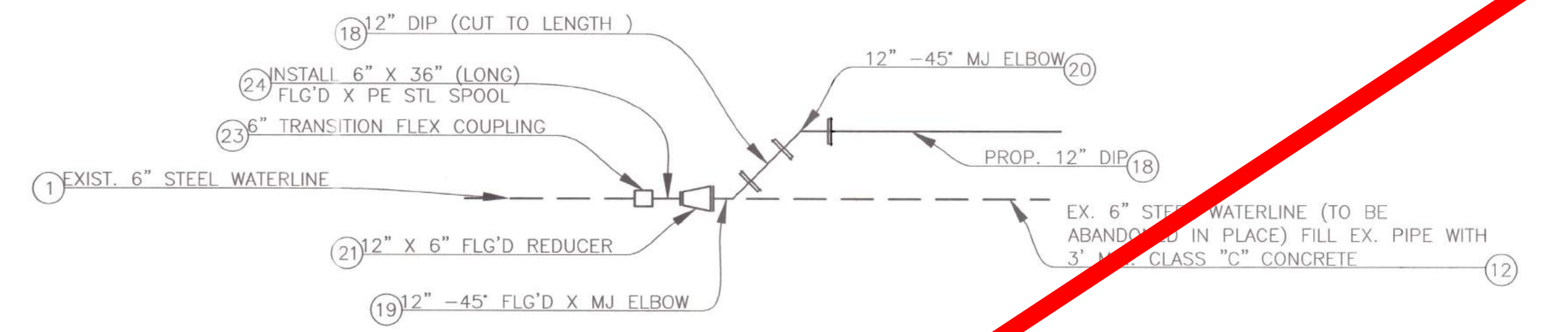
NOT A PART

RECVD COUNTY OVERSIGHT ENGINEER REGISTRATION # DATE SIGNED
76450 9/28/21
APPROVED AS TO COMPLIANCE WITH APPLICABLE COUNTY STANDARDS AND PRACTICES (TRANSPORTATION DEPARTMENT ONLY - ROW/OFFSITE)

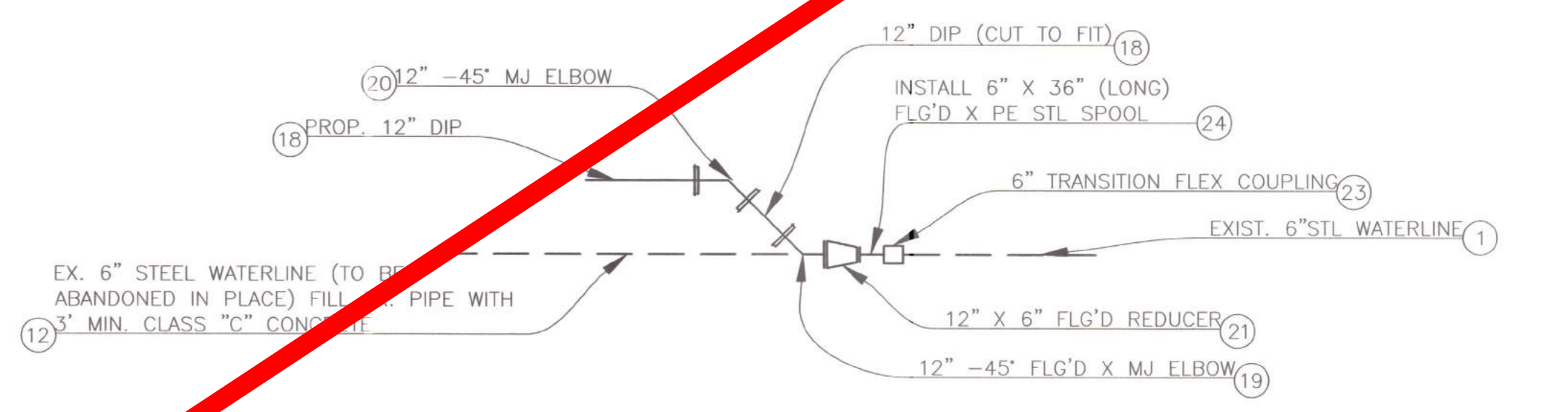
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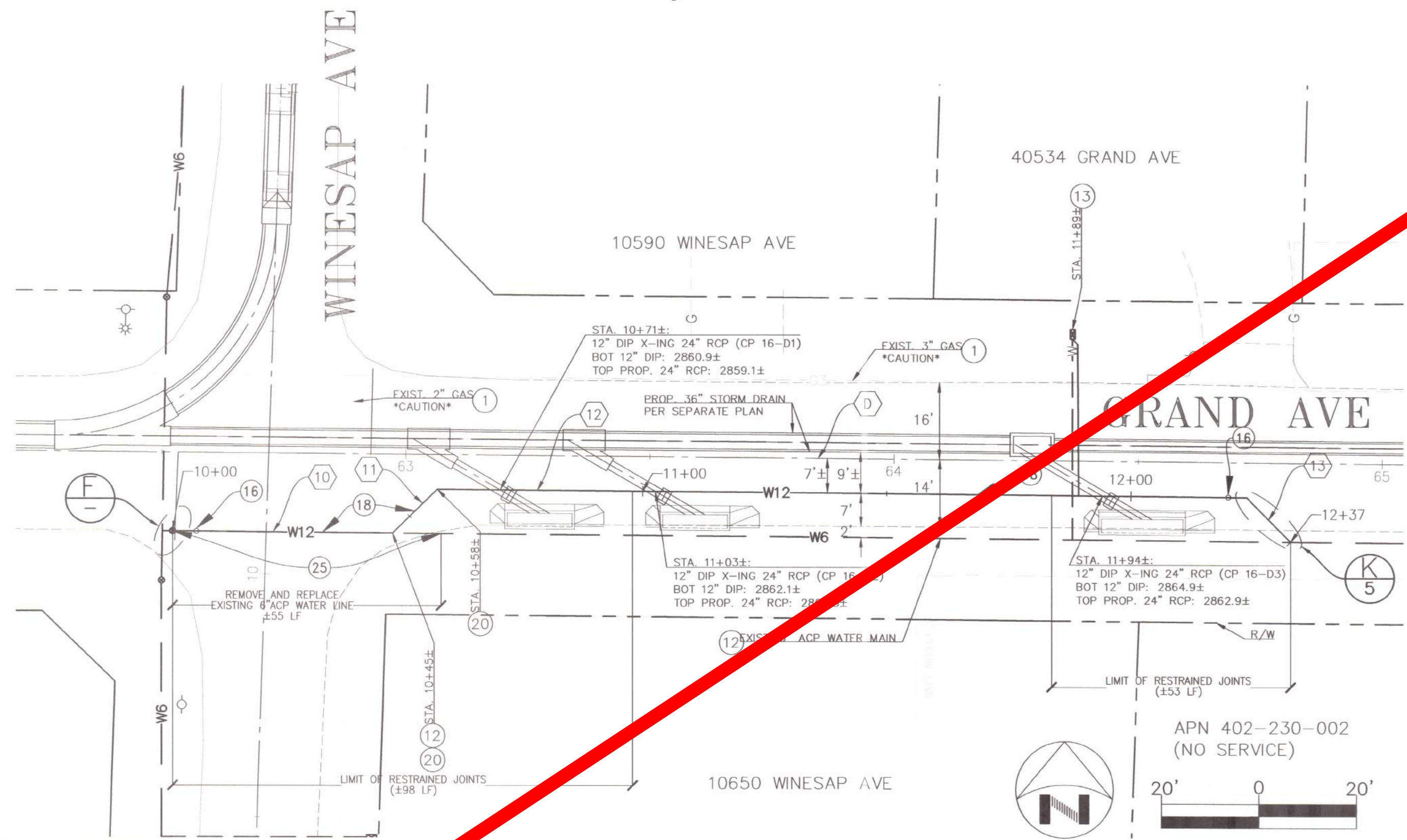
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DETAIL "D"
PIPELINE 2 WESTERN TIE-IN AT JONATHAN AVE
NOT TO SCALE



DETAIL "E"
12" DIP TIE-IN TO EXISTING 6" STEEL WATER MAIN
NOT TO SCALE



PIPELINE 3
SCALE: 1"=20'

DETAIL "F"
TIE-IN TO EXISTING 6" STEEL WATER MAIN
NOT TO SCALE

*CONTRACTOR TO COORDINATE WITH DISTRICT FIELD STAFF TO SHUT DOWN EXISTING 6" LINE IN WINESAP AVENUE USING VALVES AT THE NORTHWEST AND SOUTHWEST CORNERS OF GRAND AVENUE AND WINESAP AVENUE.

LINE/CURVE DATA TABLE			
	BEARING/DELTA	RADIUS	LENGTH(±) (LF)
7	N 45°00'00" E	-	7
8	N 90°00'00" E	-	166
9	N 45°00'00" W	-	7
10	N 89°28'40" W	-	45
11	N 45°31'20" E	-	13
12	N 89°28'40" W	-	166
13	N 44°28'40" W	-	13
GRAND AVENUE CENTERLINE DATA TABLE			
B	N 89°58'17" E	-	98
C	N 89°30'55" W	-	225
D	N 89°28'53" W	-	284

- CONSTRUCTION NOTES**
- PROTECT IN PLACE
 - DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES (PER AWWA STANDARD)
 - ABANDON IN PLACE EXISTING PIPELINE AND PLUG SEVERED PIPE ENDS WITH 3" MINIMUM CLASS "C" CONCRETE PLUG
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 - INSTALL RESTRAINED JOINTS (FIELD-LOK 350 GASKETS, MEGA LUGS (IF MECHANICAL JOINT) OR DISTRICT APPROVED EQUAL)
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 - INSTALL 12" DIP (CLASS 350) WITH POLYETHYLENE ENGAGEMENT AND BEDDING PER BCVWD PLATE 6-1 (36" MIN COVER)
 - INSTALL 12" - 45° FLG'D X MJ ELBOW, WITH EBAA IRON SERIES 1100 RESTRAINT
 - INSTALL 12" - 45° MJ ELBOW, WITH EBAA IRON SERIES 1100 RESTRAINT
 - INSTALL 12" X 6" FLG'D REDUCER
 - INSTALL 12" - FLG'D X MJ ADAPTER
 - INSTALL 6" TRANSITION FLEX COUPLING FROM 6.60" - 6.91" (ROMAC LONG BARREL) AND TIES PER BCVWD PLATE 9
 - INSTALL 6" X 36" (LONG) FLG'D X PE STL SPOOL
 - REMOVE EXISTING 6" PIPELINE (LIMITS AS INDICATED)
 - INSTALL 12" GATE VALVE PER BCVWD PLATE 2

- GENERAL CONSTRUCTION & NOTES**
- ALL PIPELINES SHALL BE FULLY RESTRAINED WITH RESTRAINED JOINT GASKETS PER BCVWD STANDARD SPECIFICATIONS.
 - INSTALL CLASS II AGGREGATE BASE (FURNISHED BY DISTRICT) FROM TOP OF PIPE ZONE TO GROUND SURFACE ALONG ALL NEW AND EXISTING PIPELINE TRENCHES PER BCVWD PLATE 6-1 AND 6-2, OR AS APPROVED BY THE COUNTY OF RIVERSIDE IN LOCATIONS WHERE NATIVE MATERIAL IS NOT SUITABLE FOR PROPER BACKFILL AND COMPACTION.
 - DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES (PER AWWA STANDARD)
 - ALL STREET CENTERLINE STATIONING FROM BEAUMONT MDP LINE 16, STAGE 50 RECHARGE BASIN FEEDER PLANS.
 - ALL PIPELINE STATIONING ALONG CENTERLINE OF PIPE, UNLESS OTHERWISE NOTED.

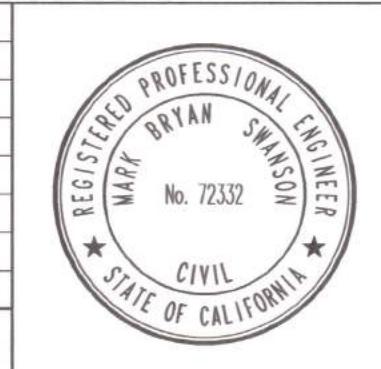
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Z-17350
FD 1/2" IR W/ RCFC TS CAP
FL
EL. 2816.73

BEAUMONT-CHERRY VALLEY WATER DISTRICT
ENGINEERING
TRANSMISSION & DISTRIBUTION
09-23-2021

SYM	REVISIONS	DATE	BY



BEAUMONT-CHERRY VALLEY WATER DISTRICT
560 Magnolia Ave. • Beaumont, CA. 92223 • 951-845-9581

APPROVED BY: [Signature]
REGISTERED ENGINEER No. 72332 DATE 9/29/24

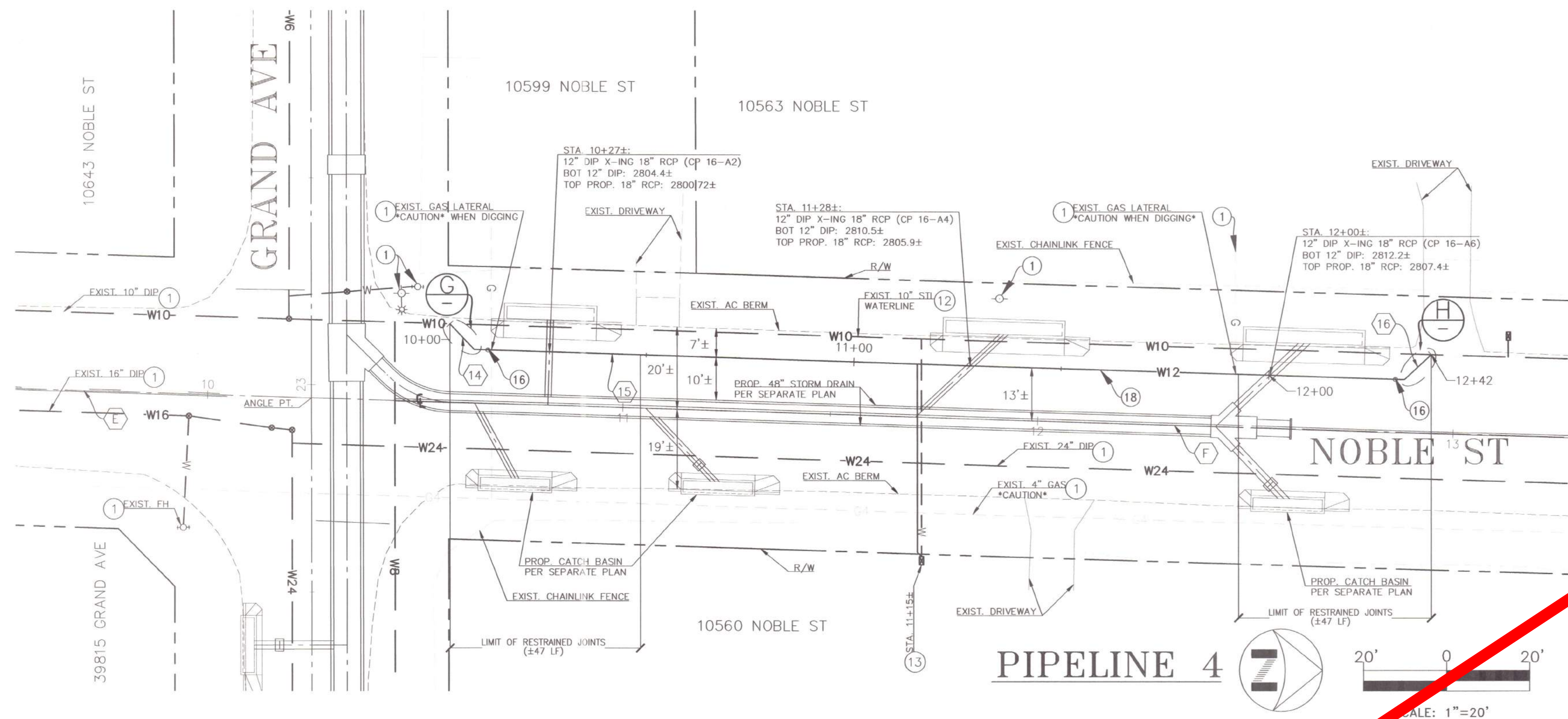
SCALE	AS NOTED
FIELD BOOK	N/A
DESIGN	DAB
DRAWN	DAB
CHECKED	MBS

BCVWD
PIPELINE RELOCATION PLAN
PIPELINE 2: STA.: 10+00 - STA.: 11+81±
(GRAND AVE STA.: 49+47± - STA.: 51+24±)
PIPELINE 3: STA.: 10+00 - STA.: 12+37±
(GRAND AVE STA.: 62+52± - STA.: 64+81±)

PZ 3040
SHEET
3
OF 6 SHEETS
970 W
FILE NO.

REC'D: COUNTY OVERSIGHT ENGINEER REGISTRATION # DATE SIGNED
76450 9/28/21
APPROVED AS TO COMPLIANCE WITH APPLICABLE COUNTY STANDARDS AND PRACTICES (TRANSPORTATION DEPARTMENT ONLY - ROW/OFFSITE)

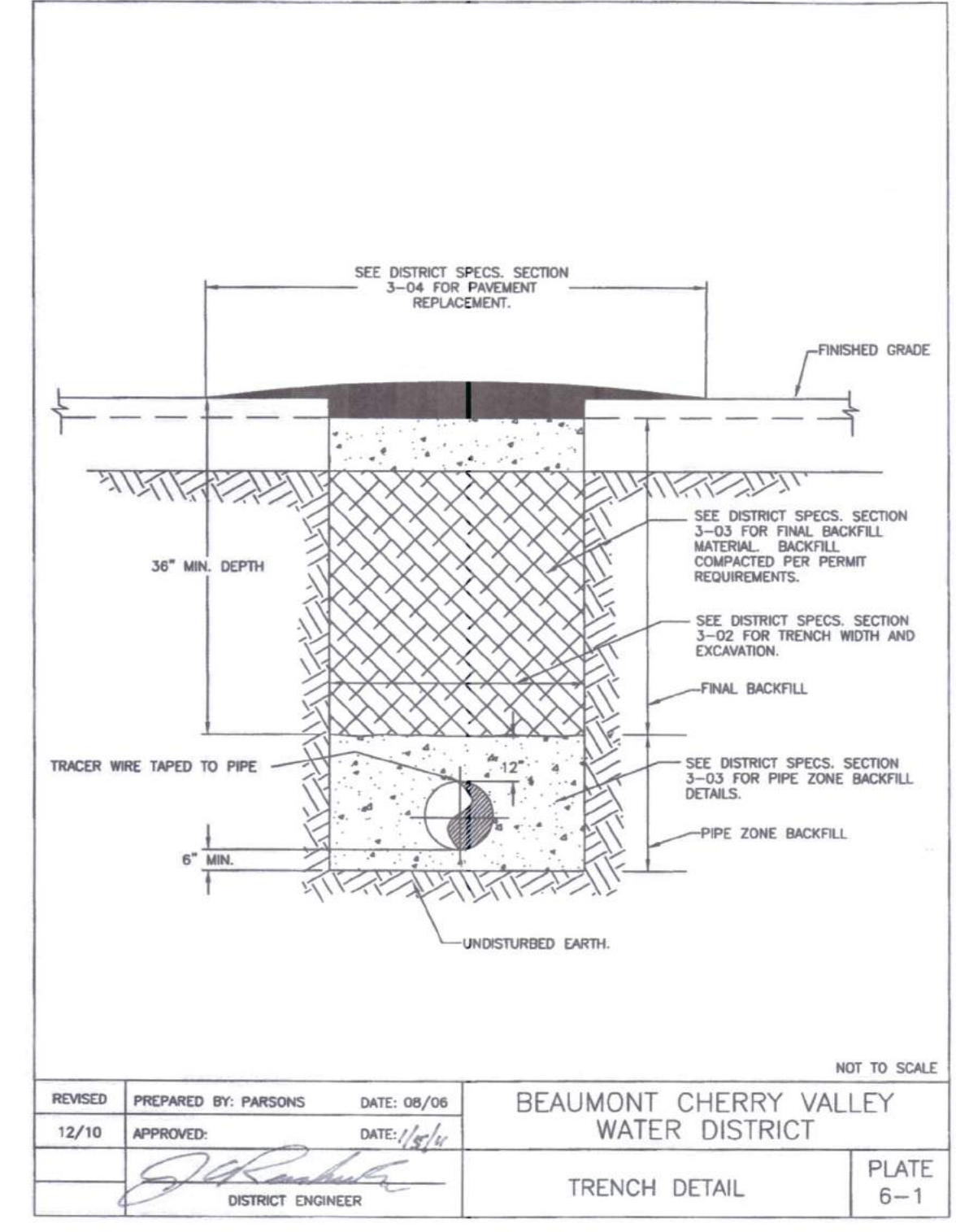
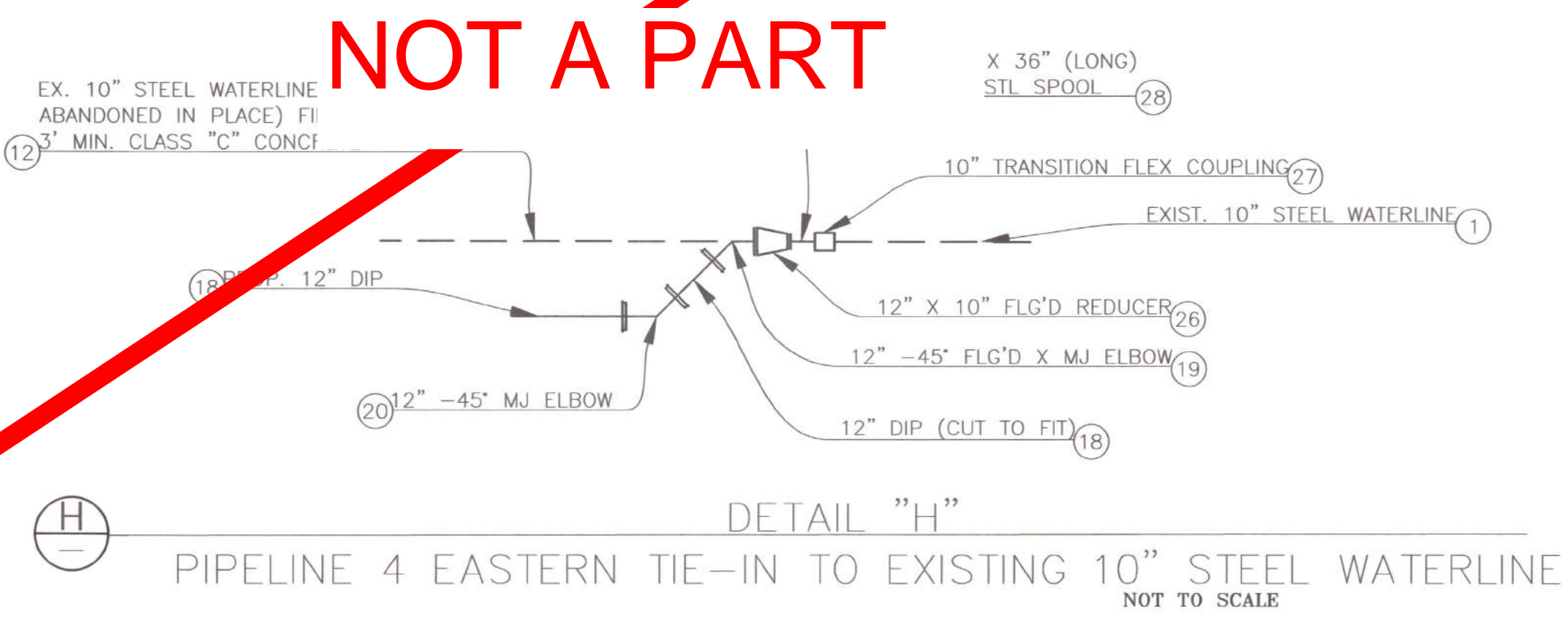
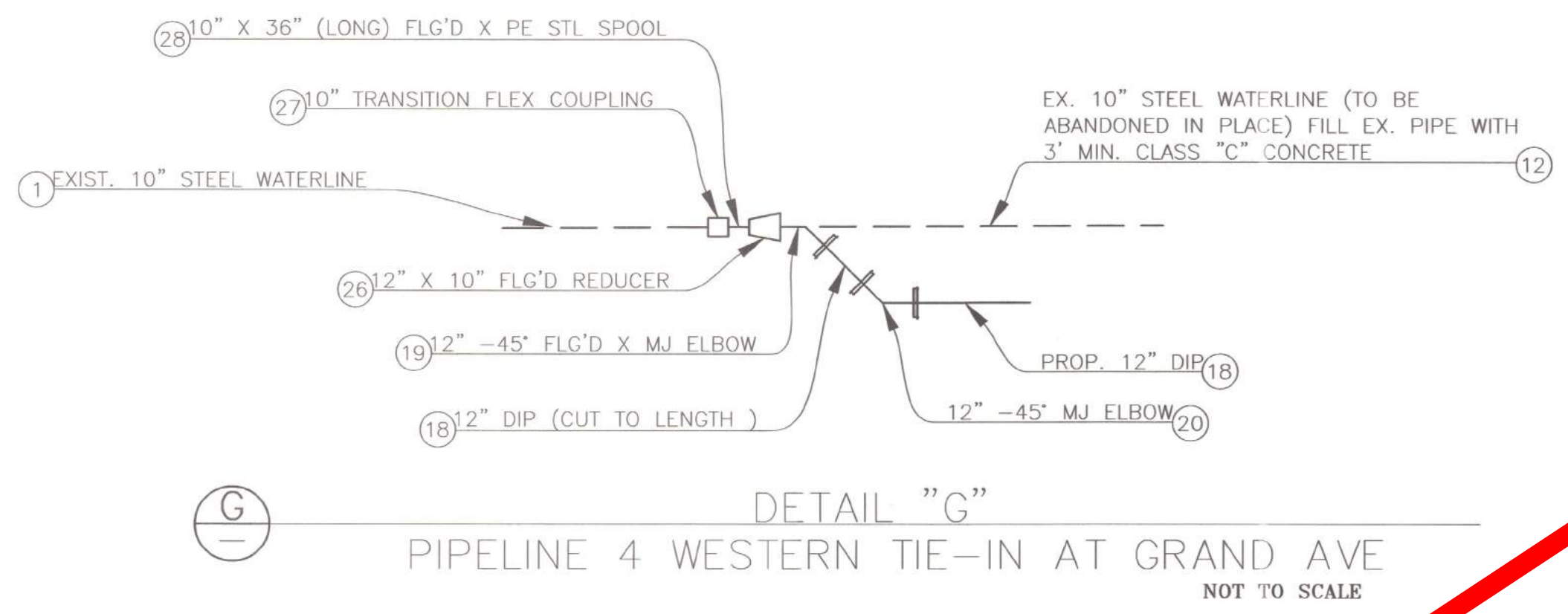
L201-000



- CONSTRUCTION NOTES**
- 1 PROTECT IN PLACE
 - 11 DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES (PER AWWA STANDARD)
 - 12 ABANDON IN PLACE EXISTING PIPELINE AND PLUG SEVERED PIPE ENDS WITH 3" MINIMUM CLASS "C" CONCRETE PLUG
 - 13 INSTALL DISTRICT FURNISHED 1" SERVICE SADDLE, CORROSION STOP, AND SERVICE LATERAL PIPING PER BCVWD STANDARD PLATE 6-3. ONCE TESTING AND DISINFECTION IS COMPLETE, REMOVE EXISTING METER AND INSTALL NEW DISTRICT FURNISHED METER AND CONNECT TO NEW SERVICE LATERAL
 - 14 INSTALL RESTRAINED JOINTS (FIELD-LOK 350 GASKETS, MEGA LUGS (IF MECHANICAL JOINT) OR DISTRICT APPROVED EQUAL)
 - 16 INSTALL 2" RISER AND TEST PLATE FOR DISINFECTION AND TESTING. REMOVE TEST PLATE AT END OF CHLORINATION AND TESTING PROCS. REMOVE RISER AND PLUG TEST LOCATION.
 - 18 INSTALL 12" DIP (CLASS 350 WITH POLYETHYLENE ENCASUREMENT AND BEDDING PER BCVWD PLATE 6-1 (36" MIN COVER)
 - 19 INSTALL 12" - 45° FLG'D X MJ ELBOW, WITH EBAA IRON SERIES 1100 RESTRAINT
 - 20 INSTALL 12" X 10" FLG'D REDUCER
 - 26 INSTALL 12" X 10" FLG'D REDUCER
 - 27 INSTALL 10" TRANSITION FLEX COUPLING FROM 10.89" - 11.40" (ROMAC LONG BARREL) AND TIES PER BCVWD PLATE 9.
 - 28 INSTALL 10" X 36" (LONG) FLG'D X PE STL SPOOL

- GENERAL CONSTRUCTION & NOTES**
1. ALL PIPELINES SHALL BE FULLY RESTRAINED WITH RESTRAINED JOINT GASKETS PER BCVWD STANDARD SPECIFICATIONS.
 2. INSTALL CLASS II AGGREGATE BASE (FURNISHED BY DISTRICT) FROM TOP OF PIPE ZONE TO GROUND SURFACE ALONG ALL NEW AND EXISTING PIPELINE TRENCHES PER BCVWD PLATE 6-1 AND 6-2, OR AS APPROVED BY THE COUNTY OF RIVERSIDE IN LOCATIONS WHERE NATIVE MATERIAL IS NOT SUITABLE FOR PROPER BACKFILL AND COMPACTION.
 3. DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES (PER AWWA STANDARD)
 4. ALL STREET CENTERLINE STATIONING FROM BEAUMONT MDP LINE 16, STAGE 50 RECHARGE BASIN FEEDER PLANS.
 5. ALL PIPELINE STATIONING ALONG CENTERLINE OF PIPE, UNLESS OTHERWISE NOTED.

NOT A PART



LINE/CURVE DATA TABLE

	BEARING/DELTA	RADIUS	LENGTH(±) (LF)
14	N 46°46' 01" E	-	9
15	N 01°48'55" E	-	166
16	N 43°13'59" W	-	6

NOBLE STREET CENTERLINE DATA TABLE

	BEARING/DELTA	RADIUS	LENGTH(±) (LF)
E	N 01°46'39" E	-	71
F	N 01°45'26" E	-	305

REVISION	PREPARED BY: PARSONS	DATE: 08/06	BEAUMONT CHERRY VALLEY WATER DISTRICT
12/10	APPROVED:	DATE: 11/16	
	DISTRICT ENGINEER		TRENCH DETAIL
			PLATE 6-1

NOTE:
WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT HAS BEEN ISSUED.

BENCHMARK: NAVD88 DATUM Z-17350
FD 1/2" IR W/ RCFC TS CAP FL
EL. 2816.73

BEAUMONT-CHERRY VALLEY WATER DISTRICT
48 hours BEFORE excavation
1-(800)227-2600
CALL Underground Service Alert



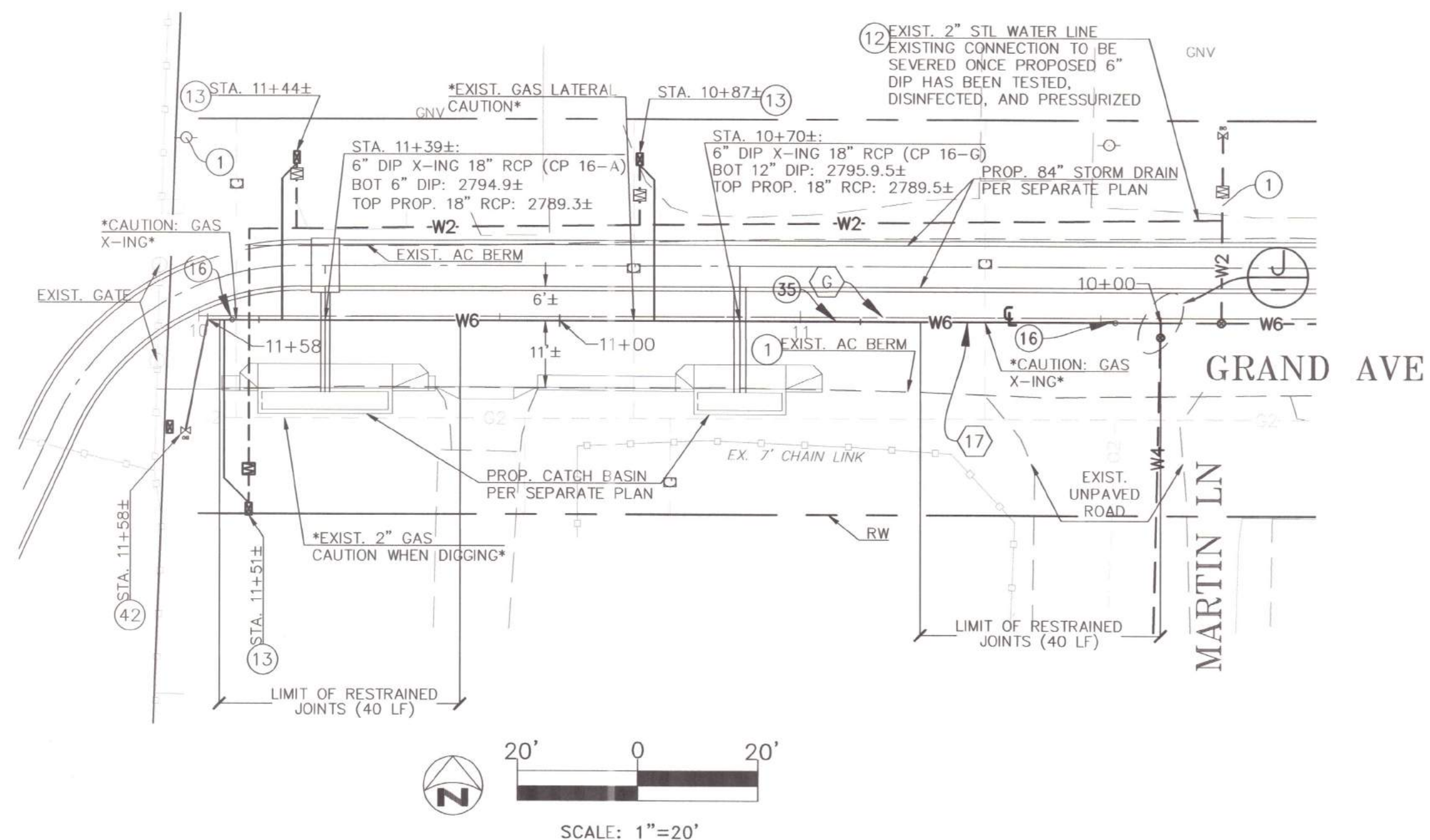
BEAUMONT-CHERRY VALLEY WATER DISTRICT
560 Magnolia Ave. • Beaumont, CA. 92223 • 951-845-9581

APPROVED BY: [Signature]
REGISTERED ENGINEER No. 72332 DATE 9/29/21

SCALE	AS NOTED
FIELD BOOK	N/A
DESIGN	DAB
DRAWN	DAB
CHECKED	MBS

BCVWD
PIPELINE RELOCATION PLAN
PIPELINE 4: STA.: 10+00 - STA.: 12+42±
(NOBLE ST STA.: 10+58± - STA.: 12+95±)
PLATE 6-1

PZ 3040
SHEET 4 OF 4 SHEETS
970 W
FILE No. 2021-0007



LINE/CURVE DATA TABLE			
	BEARING/Delta	RADIUS	LENGTH(±) (LF)
(17)	N 90°00'00" E	-	158
GRAND AVENUE CENTERLINE DATA TABLE			
(6)	N 90°00'00" E	-	186

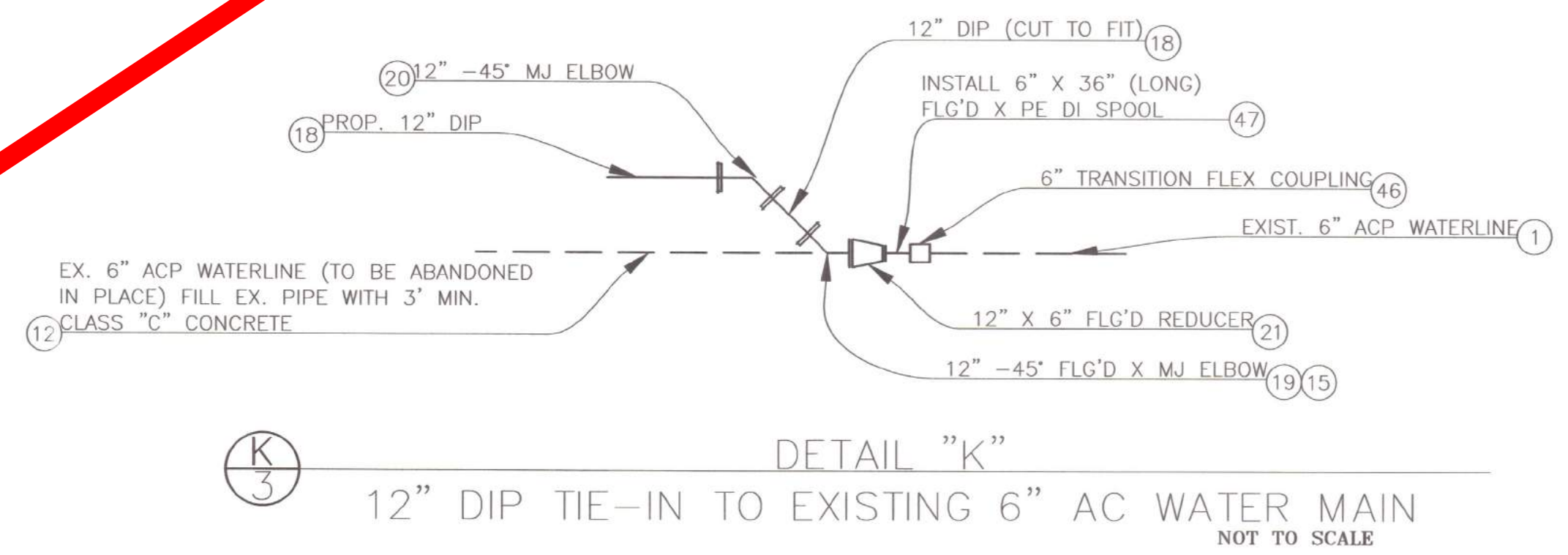
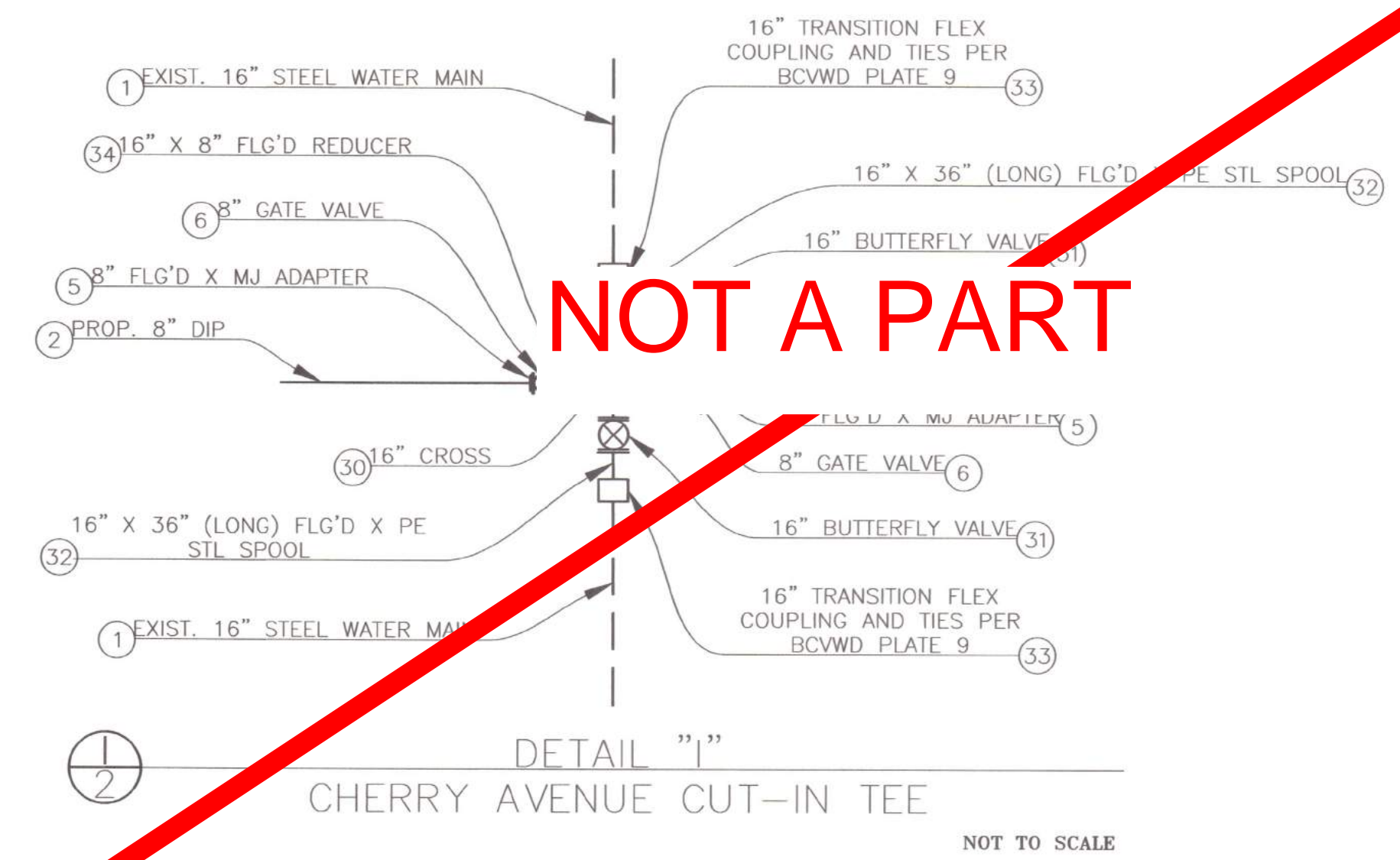
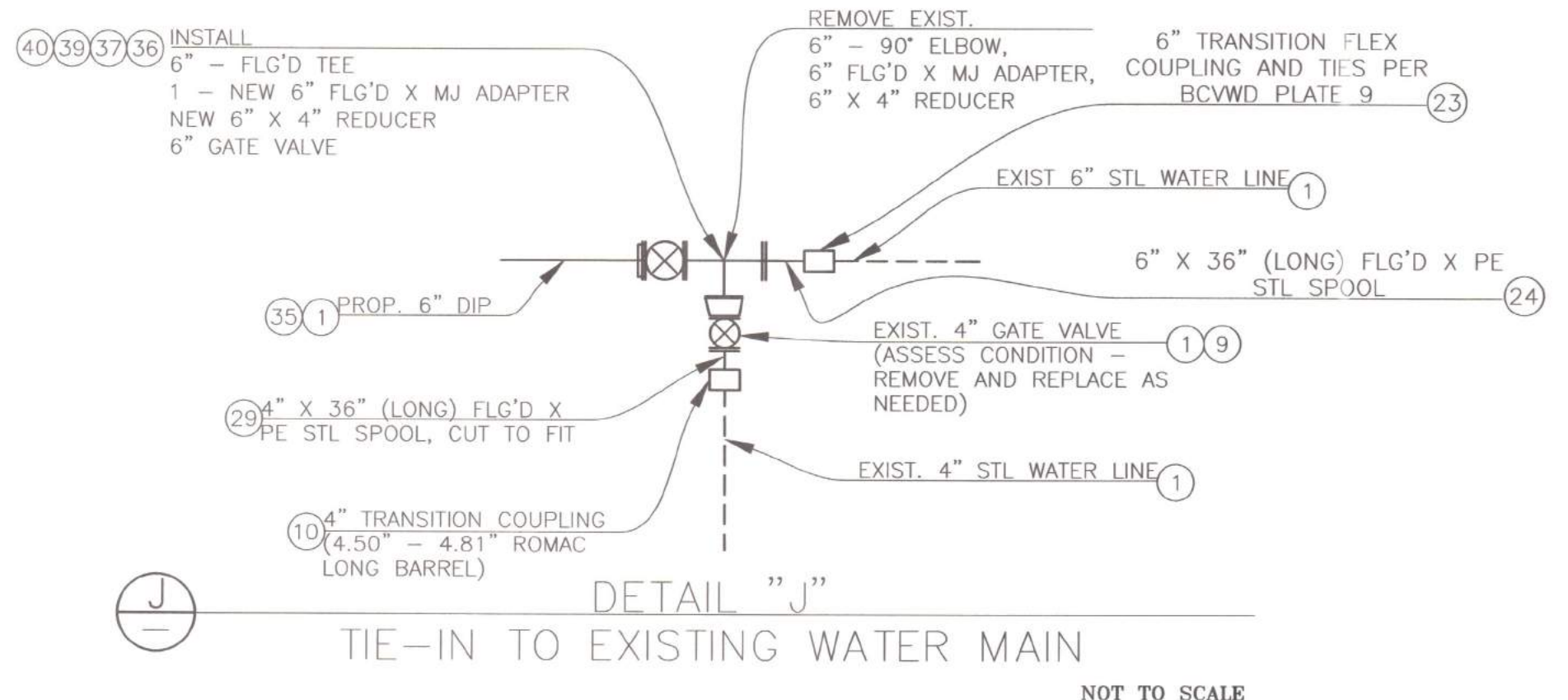
GENERAL CONSTRUCTION & NOTES

1. ALL PIPELINES SHALL BE FULLY RESTRAINED WITH RESTRAINED JOINT GASKETS PER BCVWD STANDARD SPECIFICATIONS.
2. INSTALL CLASS II AGGREGATE BASE (FURNISHED BY DISTRICT) FROM TOP OF PIPE ZONE TO GROUND SURFACE ALONG ALL NEW AND EXISTING PIPELINE TRENCHES PER BCVWD PLATE 6-1 AND 6-2, OR AS APPROVED BY THE COUNTY OF RIVERSIDE IN LOCATIONS WHERE NATIVE MATERIAL IS NOT SUITABLE FOR PROPER BACKFILL AND COMPACTION.
3. DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES (PER AWWA STANDARD)
4. ALL STREET CENTERLINE STATIONING FROM BEAUMONT MDP LINE 16, STATION 50 RECHARGE BASIN FEEDER PLANS.
5. ALL PIPELINE STATIONING ALONG CENTERLINE OF PIPE, UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES

- (1) PROTECT IN PLACE
- (2) INSTALL 8" DIP (CLASS 350) WITH POLYETHYLENE ENCASUREMENT AND BEDDING PER BCVWD PLATE 6-1 (36" MIN COVER)
- (5) INSTALL 8" FLG'D X MJ ADAPTER
- (6) INSTALL 8" GATE VALVE
- (9) INSTALL 4" GATE VALVE PER BCVWD PLATE 2
- (10) INSTALL TRANSITION FLEX COUPLING FROM 4.50 - 4.81 (ROMAC LONG BARREL)
- (11) DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES (PER AWWA STANDARD)
- (12) ABANDON IN PLACE EXISTING PIPELINE AND PLUG SERVED PIPE ENDS WITH 3" MINIMUM CLASS "C" CONCRETE PLUG (EACH END)
- (13) INSTALL DISTRICT FURNISHED 1" SERVICE SADDLE, CORPORATION STOP, AND SERVICE LATERAL PIPING PER BCVWD STANDARD PLATE 6-3. ONCE TESTING AND DISINFECTION IS COMPLETE, REMOVE EXISTING METER AND INSTALL NEW DISTRICT FURNISHED METER AND CONNECT TO NEW SERVICE LATERAL.
- (14) INSTALL RESTRAINED JOINTS (FIELD-LOK 350 GASKETS, MEGA LUGS (IF MECHANICAL JOINT) OR DISTRICT APPROVED EQUAL.
- (15) INSTALL THRUST BLOCK PER BCVWD PLATE 11-1 AND 11-2 (ASSUME SOIL BEARING PRESSURE OF 1500 LB/SF)
- (16) INSTALL 2" RISER AND TEST PLATE FOR DISINFECTION AND TESTING. REMOVE TEST PLATE AT END OF CHLORINATION AND TESTING PROCESS. REMOVE RISER AND PLUG TEST LOCATION.
- (23) INSTALL 6" TRANSITION FLEX COUPLING FROM 6.60" - 6.91" (ROMAC LONG BARREL) AND TIES PER BCVWD PLATE 9
- (24) INSTALL 6" X 36" (LONG) FLG'D X PE STL SPOOL
- (29) INSTALL 4" X 36" (LENGTH) FLG'D X PE STL SPOOL (CUT TO FIT).
- (30) INSTALL 16" D.I. FLG'D CROSS
- (31) INSTALL 16" BUTTERFLY VALVE
- (32) INSTALL 16" X 36" (LONG) FLG'D X PE STL SPOOL
- (33) INSTALL 16" TRANSITION COUPLING AND TIES PER BCVWD PLATE 9. (ROMAC LONG BARREL, 16.00" - 16.40" GASKET)
- (34) INSTALL 16" X 8" FLG'D REDUCER
- (35) INSTALL 6" DIP (CLASS 350) WITH POLYETHYLENE ENCASUREMENT AND BEDDING PER BCVWD PLATE 6-1 (36" MIN. COVER)
- (36) INSTALL 6" - FLG'D TEE
- (37) INSTALL 6" X 4" FLG'D ECCENTRIC REDUCER
- (39) INSTALL 6" GATE VALVE PER BCVWD PLATE 2
- (40) INSTALL 6" FLG'D X MJ ADAPTER
- (42) INSTALL 4" BLOWOFF ASSEMBLY PER BCVWD PLATE 3-1
- (46) INSTALL 6" TRANSITION FLEX COUPLING FROM 6.60" - 6.91" x 7.15" - 7.35" (ROMAC LONG BARREL)
- (47) INSTALL 6" X 36" (LONG) FLG'D X PE DI SPOOL

NOT A PART



NOTE:
 WORK CONTAINED WITHIN THESE PLANS SHALL NOT COMMENCE UNTIL AN ENCROACHMENT PERMIT HAS BEEN ISSUED.

BENCHMARK: NAVD88 DATUM Z-17350
FD 1/2" IR W/ RCFC TS CAP FL
EL. 2816.73
BEAUMONT-CHERRY VALLEY WATER DISTRICT
ENGINEERING: [Signature]
TRANSMISSION & DISTRIBUTION
PRINT DATE: 09-23-2021

48 hours BEFORE excavation
 1-(800)227-2600
 CALL Underground Service Alert



BEAUMONT-CHERRY VALLEY WATER DISTRICT
 560 Magnolia Ave. • Beaumont, CA. 92223 • 951-845-9581

APPROVED BY: [Signature]
 REGISTERED ENGINEER No. 72332 DATE 9/29/21

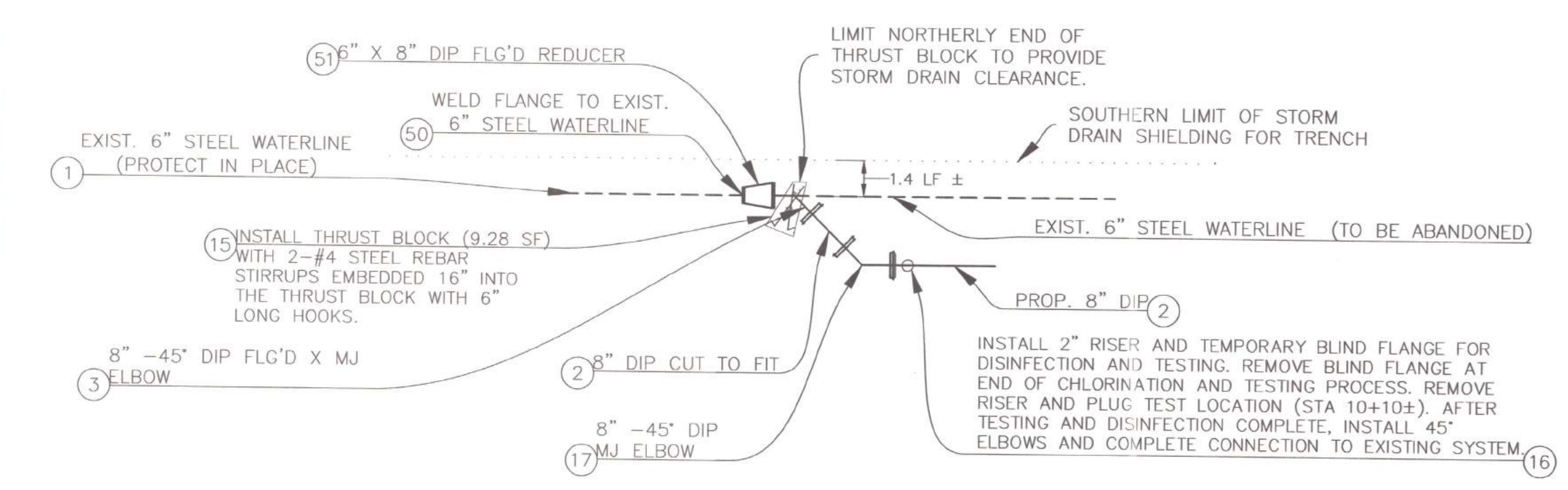
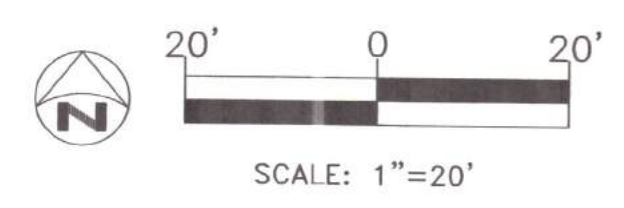
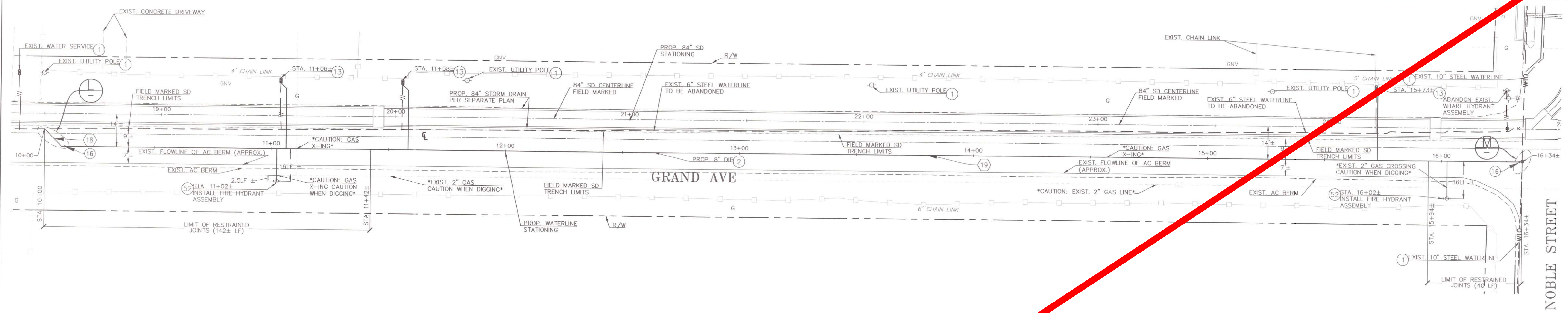
SCALE	AS NOTED
FIELD BOOK	N/A
DESIGN	DAB
DRAWN	DAB
CHECKED	MBS

BCVWD
 PIPELINE RELOCATION PLAN
 CHERRY AVENUE CUT-IN TEE DETAIL
 AND GRAND AVENUE - WEST OF
 MARTIN LANE

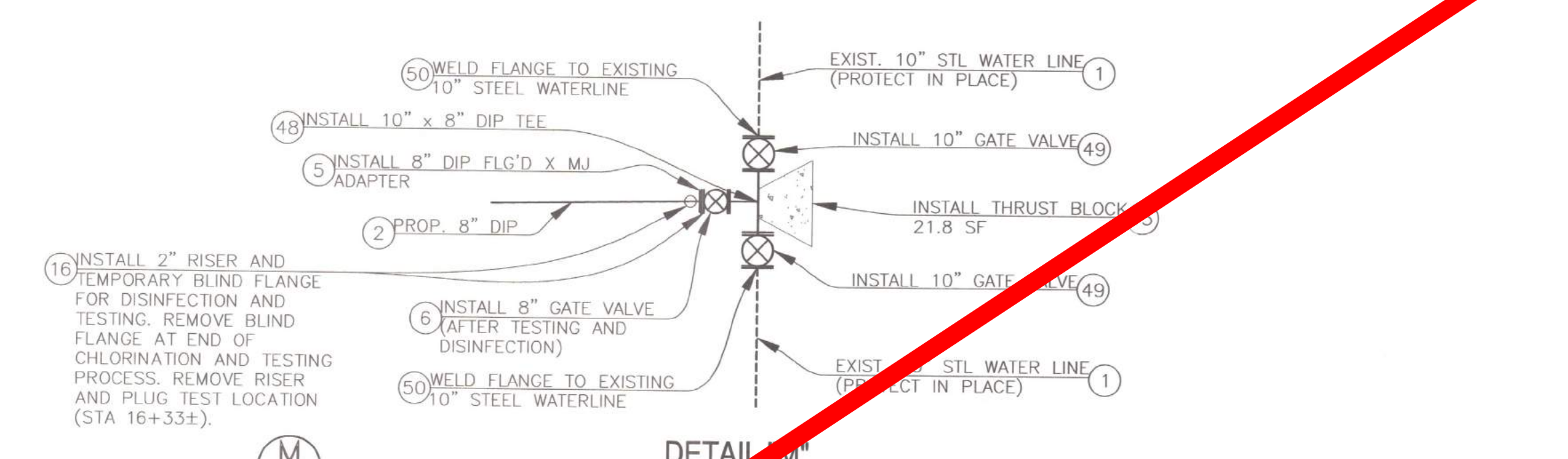
PZ 3040
 SHEET
5
 OF 5 SHEETS
 970 W
 FILE No.

REC'D COUNTY OVERSIGHT ENGINEER REGISTRATION # DATE SIGNED
 RT 76450 9/28/21

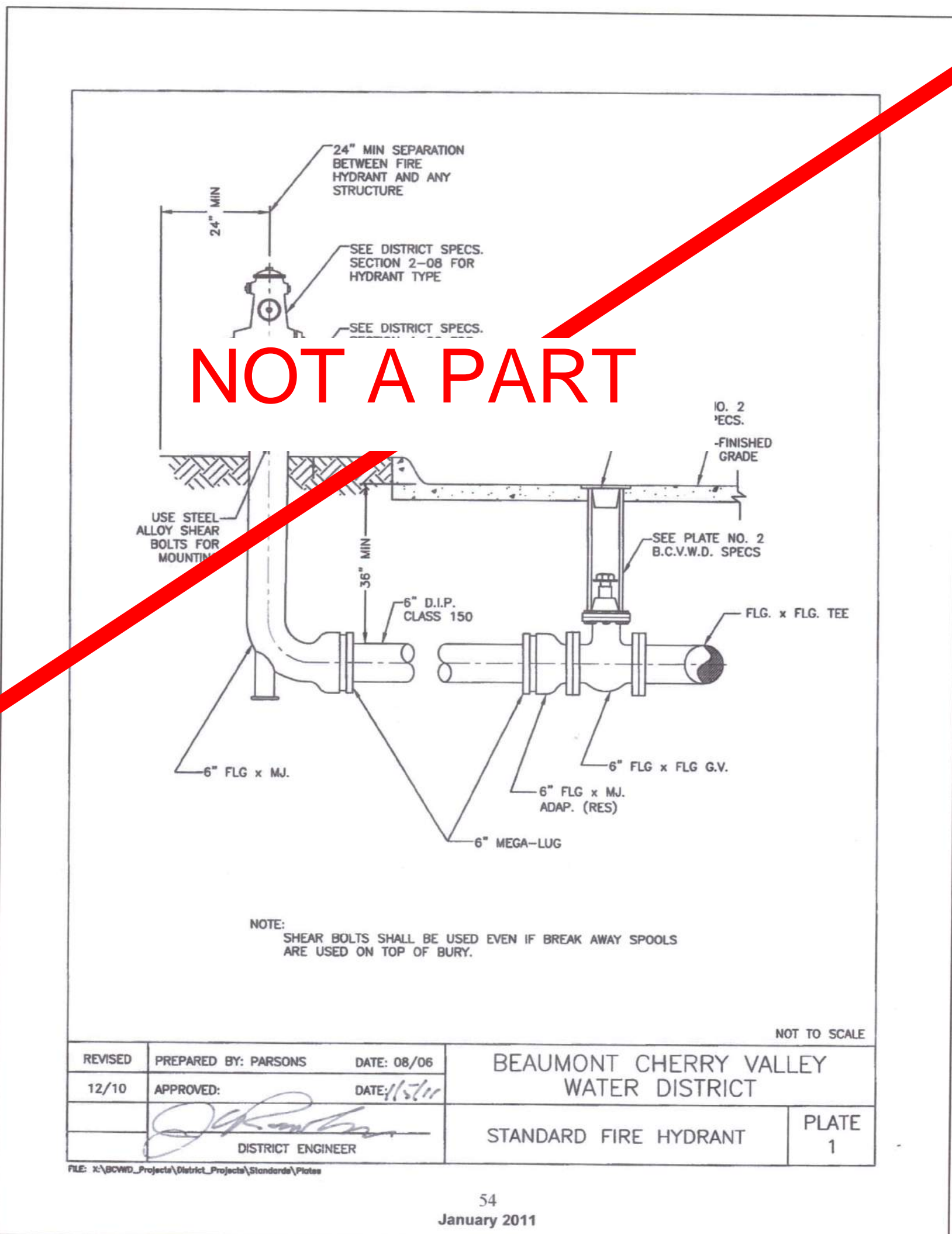
2021-0001



DETAIL "L"
8" DIP CONNECTION TO EXISTING 6" STEEL WATER MAIN
 (WATERLINE STA 10+00 = MDP LINE 16 STA 18+50±)
 NOT TO SCALE



DETAIL "M"
CONNECTION TO EXISTING WATER MAIN
 (WATERLINE STA 10+33± = MDP LINE 16 STA 24+82±)
 NOT TO SCALE



REVISED	PREPARED BY: PARSONS	DATE: 08/06	BEAUMONT CHERRY VALLEY WATER DISTRICT
12/10	APPROVED:	DATE: 1/1/11	STANDARD FIRE HYDRANT
			PLATE 1

CONSTRUCTION NOTES	UNIT	QTY
1 PROTECT IN PLACE		
2 INSTALL 8" DIP (CLASS 350) WITH POLYETHYLENE ENCASEMENT AND BEDDING PER BCVWD PLATE 6-1 (36" MIN COVER)	LF	635
3 INSTALL 8" - 45° FLG'D X MJ ELBOW, WITH EBAA IRON SERIES 1100 RESTRAINT	EA	1
5 INSTALL 8" DIP FLG'D X MJ ADAPTER	EA	1
11 DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES (PER AWWA STANDARD)		
13 INSTALL DISTRICT FURNISHED 1" SERVICE SADDLE, CORPORATION STOP, AND SERVICE LATERAL PIPING PER BCVWD STANDARD PLATE 6-3. ONCE TESTING AND DISINFECTION IS COMPLETE, REMOVE EXISTING METER AND INSTALL NEW DISTRICT FURNISHED METER AND CONNECT TO NEW SERVICE LATERAL	EA	3
14 INSTALL RESTRAINED JOINTS (FIELD-LOK 350 GASKETS, MEGA LUGS (IF MECHANICAL JOINT) OR DISTRICT APPROVED EQUAL)	LF	90
15 INSTALL THRUST BLOCK PER BCVWD PLATE 11-1 AND 11-2 (SCALE USING SOIL BEARING PRESSURE OF 1500 LB/SF)	SF	AS NOTED
16 INSTALL 2" RISER AND TEMPORARY BLIND FLANGE FOR DISINFECTION AND TESTING. REMOVE TEMPORARY BLIND FLANGE AT END OF CHLORINATION AND TESTING PROCESS. REMOVE RISER AND PLUG TEST LOCATION.	EA	2
17 INSTALL 8" - 45° MJ ELBOW, WITH EBAA IRON SERIES 1100 RESTRAINT	EA	1
48 INSTALL 10" x 8" TEE	EA	1
49 INSTALL 10" GATE VALVE	EA	2
50 WELD FLANGE TO EXISTING STEEL WATERLINE	EA	3
51 INSTALL 6" x 8" DIP FLG'D REDUCER	EA	1
52 INSTALL FIRE HYDRANT ASSEMBLY PER BCVWD STANDARD PLATE 1	EA	2

WATERLINE LINE/CURVE DATA TABLE			
	BEARING/DELTA	RADIUS	LENGTH (LF)
18	N 45° W	-	10±
19	N 90° E	-	625±

NOT A PART

REC'D COUNTY OVERSIGHT ENGINEER REGISTRATION # DATE SIGNED
 APPROVED AS TO COMPLIANCE WITH APPLICABLE COUNTY STANDARDS AND PRACTICES (TRANSPORTATION DEPARTMENT ONLY - ROW/OFFSITE)

48 hours BEFORE excavation
 1-(800)227-2600
 CALL Underground Service Alert

BEAUMONT-CHERRY VALLEY WATER DISTRICT
 TRANSMISSION & DISTRIBUTION

SYM	REVISIONS	DATE	BY
	ADD DESIGN FOR PIPELINE 6 WEST OF NOBLE STREET		



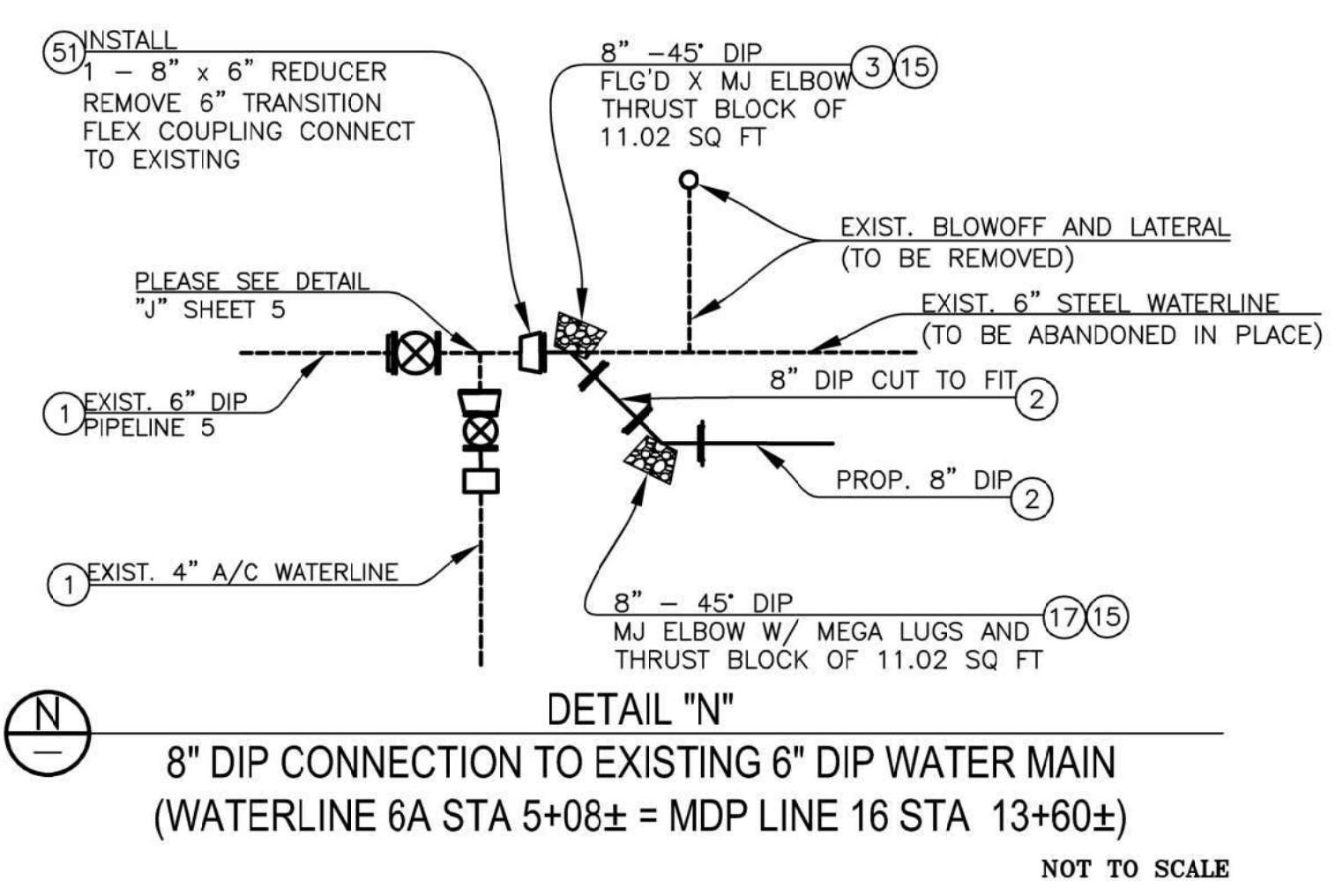
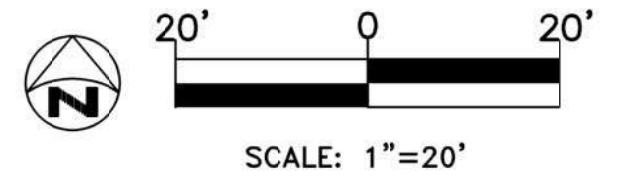
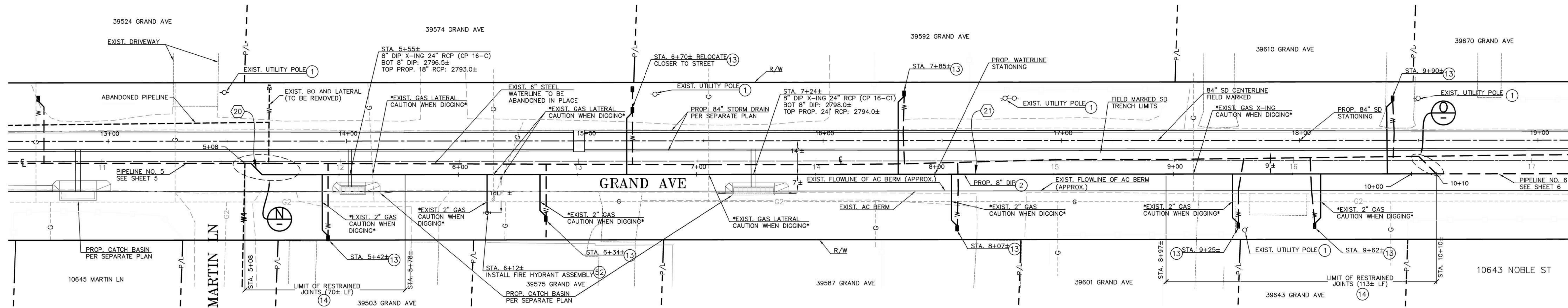
BEAUMONT-CHERRY VALLEY WATER DISTRICT
 560 Magnolia Ave. • Beaumont, CA. 92223 • 951-845-9581
 APPROVED BY: [Signature] No. 72332 DATE 4/7/22

SCALE	AS NOTED
FIELD BOOK	N/A
DESIGN	DAB
DRAWN	DAB
CHECKED	MBS

BCVWD
 PIPELINE RELOCATION PLAN
 PIPELINE 6: STA.: 10+00 - STA.: 16+34±
 (MDP LINE 16 STA. 18+50± - STA. 24+82±)

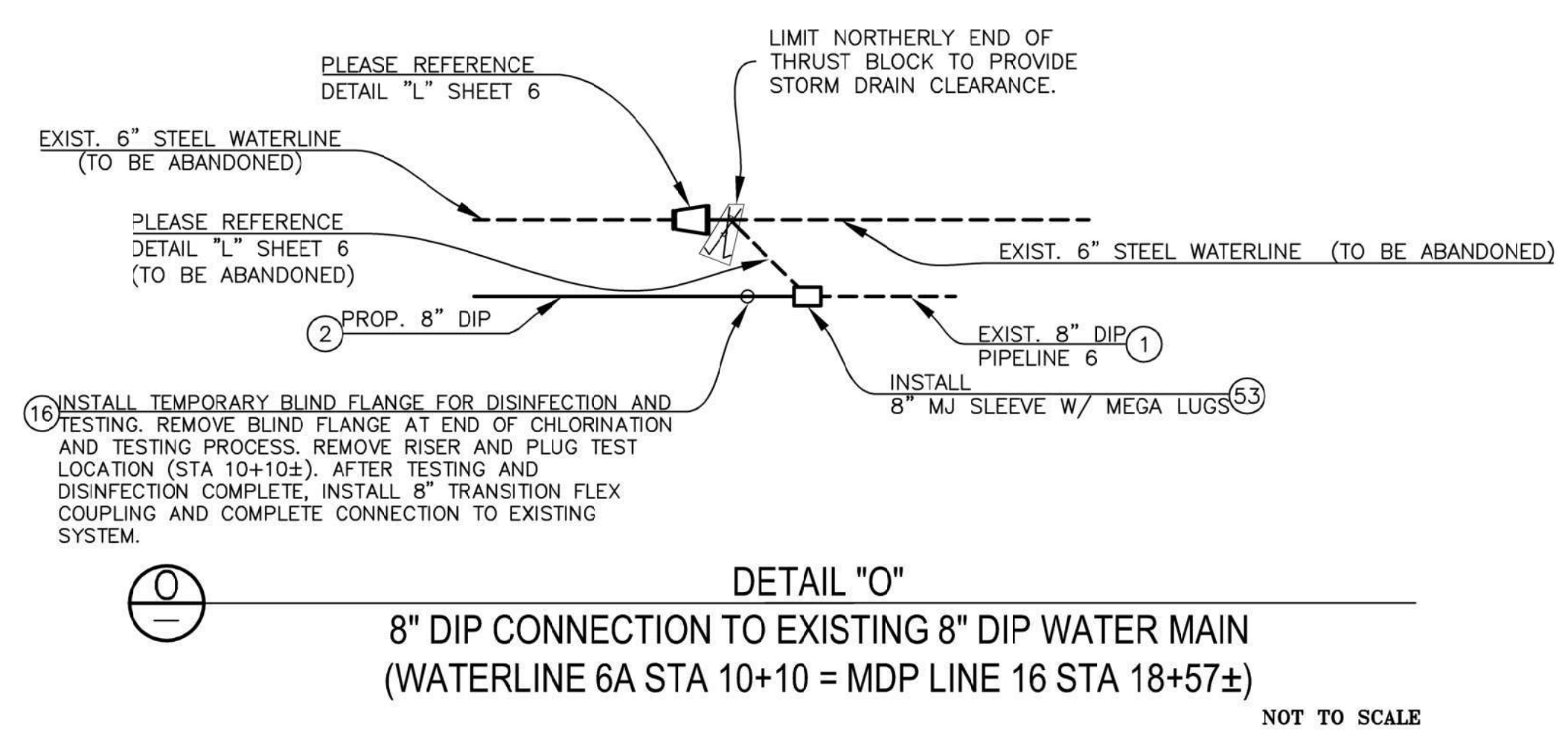
3040 PZ
 SHEET
6
 OF 6 SHEETS
 FILE NO.

2021-0807



CONSTRUCTION NOTES	UNIT	QTY
① PROTECT IN PLACE		
② INSTALL 8" DIP (CLASS 350) WITH POLYETHYLENE ENCASEMENT AND BEDDING PER BCVWD PLATE 6-1 (36" MIN COVER)	LF	502
③ INSTALL 8" - 45° FLG'D X MJ ELBOW, WITH EBAA IRON SERIES 1100 RESTRAINT	EA	1
⑬ INSTALL DISTRICT FURNISHED 1" SERVICE SADDLE, CORPORATION STOP, AND SERVICE LATERAL PIPING PER BCVWD STANDARD PLATE 6-3. ONCE TESTING AND DISINFECTION IS COMPLETE, REMOVE EXISTING METER AND INSTALL NEW DISTRICT FURNISHED METER AND CONNECT TO NEW SERVICE LATERAL.	EA	8
⑭ INSTALL RESTRAINED JOINTS (FIELD-LOK 350 GASKETS, MEGA LUGS (IF MECHANICAL JOINT) OR DISTRICT APPROVED EQUAL).	LF	183
⑮ INSTALL THRUST BLOCK PER BCVWD PLATE 11-1 AND 11-2 (SCALE USING SOIL BEARING PRESSURE OF 1500 LB/SF)	SF	AS NOTED
⑯ INSTALL 2" RISER AND TEMPORARY BLIND FLANGE FOR DISINFECTION AND TESTING. REMOVE TEMPORARY BLIND FLANGE AT END OF CHLORINATION AND TESTING PROCESS. REMOVE RISER AND PLUG TEST LOCATION.	EA	1
⑰ INSTALL 8" - 45° MJ ELBOW, WITH EBAA IRON SERIES 1100 RESTRAINT	EA	1
⑮ INSTALL 6" X 8" DIP FLG'D REDUCER	EA	1
⑳ INSTALL FIRE HYDRANT ASSEMBLY PER BCVWD STANDARD PLATE 1	EA	1
㉓ INSTALL 8" MECHANICAL JOINT SLEEVE W/ EBAA IRON SERIES 1100 RESTRAINT	EA	1

*THESE CONSTRUCTION NOTES AND QUANTITIES APPLY ONLY TO SHEET 7



WATERLINE LINE/CURVE DATA TABLE			
	BEARING/Delta	RADIUS	LENGTH (LF)
⑳	N 45° 00' 00" W	-	7±
㉑	N 90° 00' 00" E	-	493±

"FOR BIDDING PURPOSES ONLY" PZ 3040

48 hours BEFORE excavation
1-(800)227-2600
CALL Underground Service Alert

SYMBOL	REVISIONS	DATE	BY
▲	ADD SHEETS 7-14; DESIGN FOR PIPELINES 6A, 7, AND 8		
▲	ADD DESIGN FOR PIPELINE 6 WEST OF NOBLE STREET		

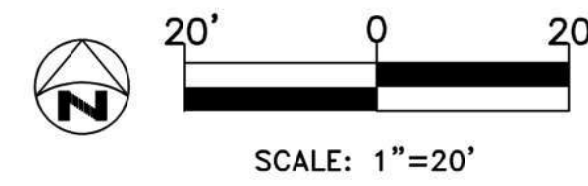
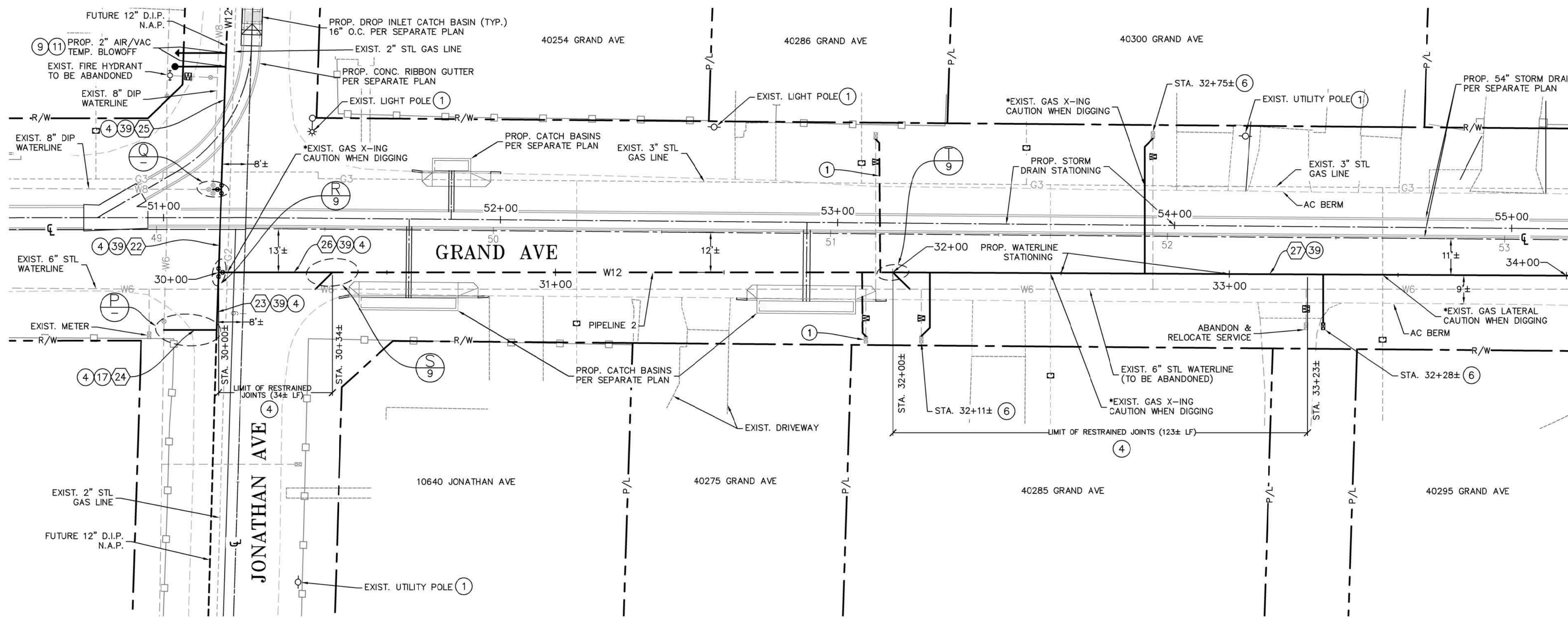
BEAUMONT-CHERRY VALLEY WATER DISTRICT
560 Magnolia Ave. • Beaumont, CA. 92223 • 951-845-9581

APPROVED BY: _____
REGISTERED ENGINEER No. _____ DATE _____

SCALE AS NOTED	BCVWD PIPELINE RELOCATION PLAN PIPELINE 6A: STA.: 5+08± - STA.: 10+10± (GRAND AVE STA.: 11+60± - STA.: 17+20±) (MDP LINE 16 STA.: 13+50± - STA.: 18+50±)	SHEET 7 OF 14 SHEETS WO ### 2021-0007
FIELD BOOK N/A		
DESIGN EJW		
DRAWN EJW		
CHECKED MRS		

REC'D COUNTY OVERSIGHT ENGINEER REGISTRATION # DATE SIGNED
APPROVED AS TO COMPLIANCE WITH APPLICABLE COUNTY STANDARDS AND PRACTICES (TRANSPORTATION DEPARTMENT ONLY - ROW/OFFSITE)

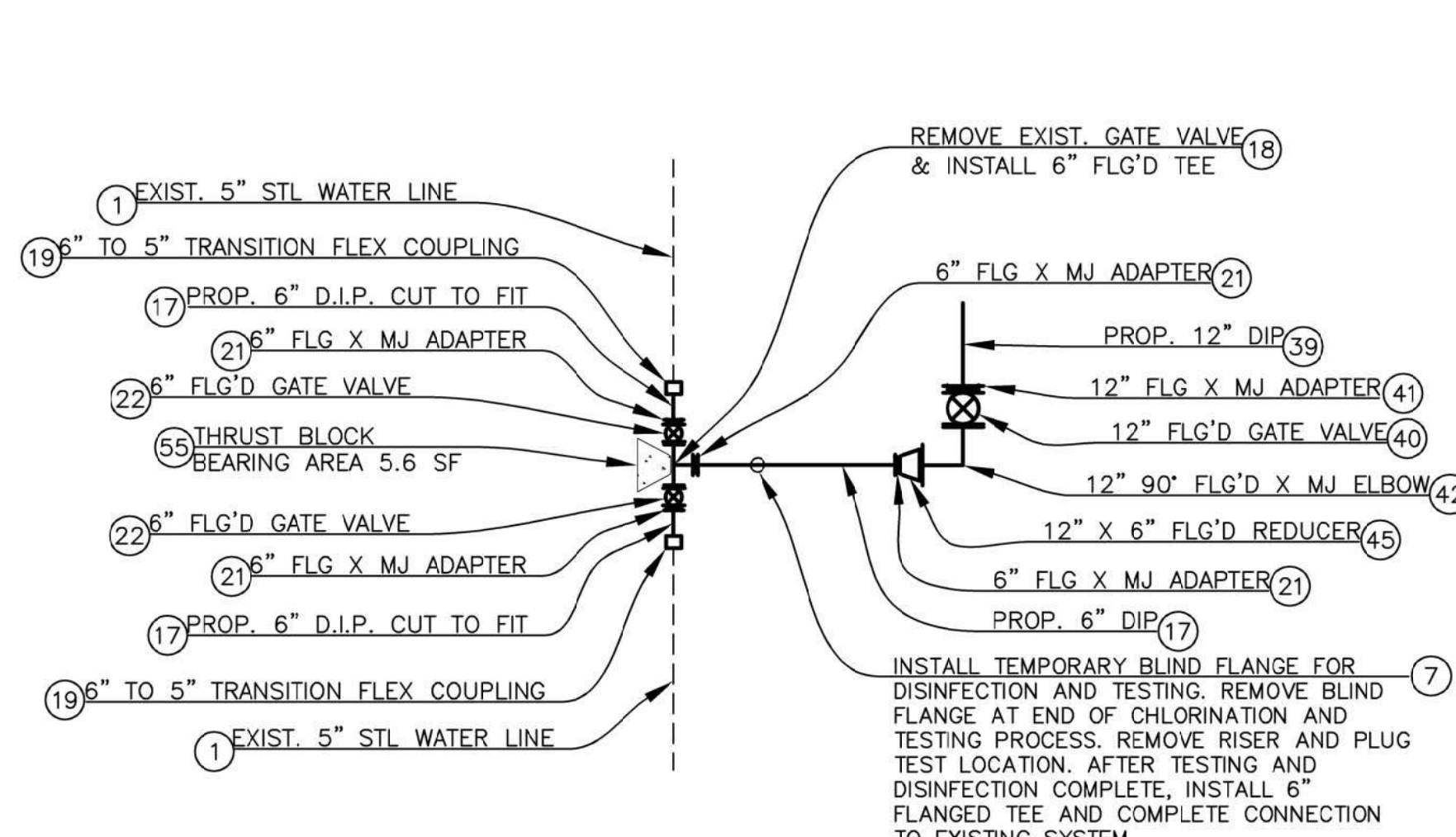
PRELIMINARY



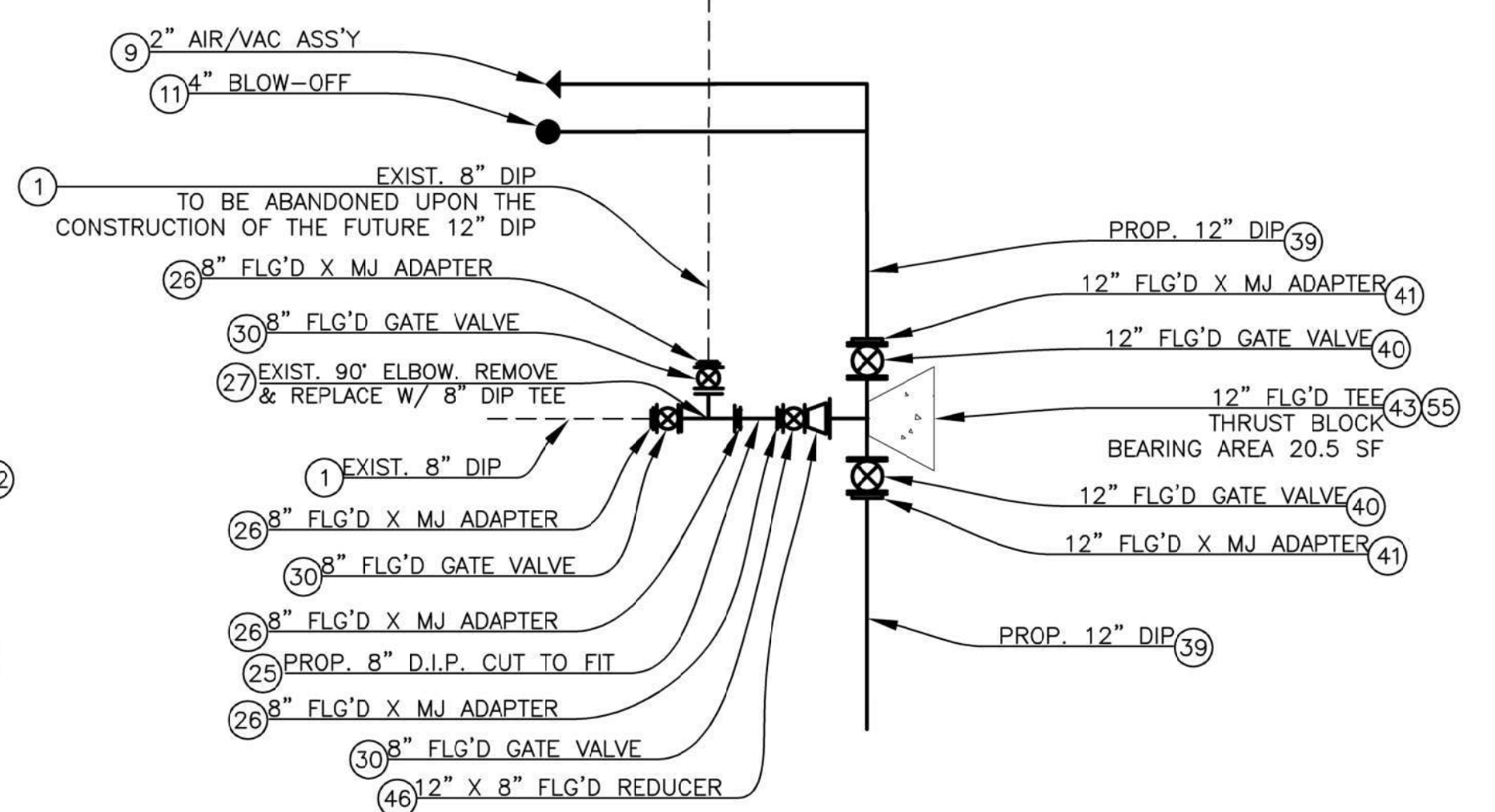
MATCHLINE - STA. 34+04±
SEE SHEET 9

CONSTRUCTION NOTES AND QUANTITIES		QTY	UNIT
1	PROTECT IN PLACE	-	-
2	COMPLETE ALL TRENCH EXCAVATION, BACKFILL, AND PAVEMENT REPAIR PER BCVWD PLATE 6-1	-	-
3	ABANDON IN PLACE EXISTING PIPELINE AND PLUG SEVERED PIPE ENDS WITH 3" MINIMUM CLASS "C" CONCRETE PLUG (EACH END)	AS NOTED	-
4	INSTALL RESTRAINED JOINTS (FIELD-LOK 350 GASKETS, MEGA LUGS (IF MECHANICAL JOINT) OR DISTRICT APPROVED EQUAL)	AS NOTED	-
5	DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES (PER AWWA STANDARD)	-	EA
6	INSTALL DISTRICT FURNISHED 1" SERVICE SADDLE, CORPORATION STOP, AND SERVICE LATERAL PIPING PER BCVWD STANDARD PLATE 6-3. ONCE TESTING AND DISINFECTION IS COMPLETE, REMOVE EXISTING METER AND INSTALL NEW DISTRICT FURNISHED METER AND CONNECT TO NEW SERVICE LATERAL.	29	EA
7	INSTALL NEW 2" RISER AND TEST PLATE FOR DISINFECTION AND TESTING. REMOVE TEST PLATE AT END OF CHLORINATION AND TESTING PROCESS. REMOVE RISER AND PLUG TEST LOCATION.	11	EA
8	INSTALL FIRE HYDRANT ASSEMBLY PER BCVWD PLATE NO. 1	5	EA
9	INSERT 2" AIR RELEASE AND VACUUM VALVE ASSEMBLY PER BCVWD PLATE NO. 5	4	EA
10	INSTALL 4" DIP PRESSURE CLASS 350 AND BEDDING PER BCVWD PLATE NO. 6-1	14	LF
11	INSTALL 4" BLOW-OFF ASSEMBLY PER BCVWD PLATE NO. 3-1	3	EA
12	INSTALL 4" FLANGED GATE VALVE PER BCVWD PLATE NO. 2	1	EA
13	INSTALL 4" TRANSITION FLEX COUPLING FROM 4.5" - 4.81" (ROMAC LONG BARREL) AND TIES PER BCVWD PLATE 9	2	EA
14	INSTALL 4" FLANGED END BY MECHANICAL JOINT ADAPTER	2	EA
15	NOT USED	-	EA
16	INSTALL 4" FLANGED 90 ELBOW	1	EA
17	INSTALL 6" DIP PRESSURE CLASS 350 AND BEDDING PER BCVWD PLATE NO. 6-1	47	LF
18	INSTALL 6" X 6" X 6" FLG'D TEE	2	EA
19	INSTALL 6" TO 5" TRANSITION FLEX COUPLING	2	EA
20	INSTALL 6" TRANSITION FLEX COUPLING	3	EA
21	INSTALL 6" FLG'D X MJ ADAPTER	9	EA
22	INSTALL 6" FLG'D GATE VALVE PER BCVWD PLATE NO. 2	5	EA
23	NOT USED	-	EA
24	INSTALL 6" 90 DEG FLG'D ELBOW	1	EA
25	INSTALL 8" DIP PRESSURE CLASS 350 AND BEDDING PER BCVWD PLATE NO. 6-1	891	LF
26	INSTALL 8" FLANGED END X MECHANICAL JOINT ADAPTER	8	EA
27	INSTALL 8" X 8" X 8" DIP FLANGED TEE	1	EA
28	INSTALL 8" FLANGED END X MECHANICAL JOINT 45 BEND	2	EA
29	NOT USED	-	EA
30	INSTALL 8" FLANGED GATE VALVE PER BCVWD PLATE NO. 2	4	EA
31	INSTALL 8" X 8" X 8" X 8" FLANGED DUCTILE IRON CROSS	1	EA
32	INSTALL 10" DIP PRESSURE CLASS 350 AND BEDDING PER BCVWD PLATE NO. 6-1	6	LF
33	INSTALL 10" FLANGED GATE VALVE PER BCVWD PLATE NO. 2	2	EA
34	INSTALL 10" FLANGED X MECHANICAL JOINT ADAPTER	6	EA
35	INSTALL 10" X 10" X 10" FLANGED TEE	1	EA
36	NOT USED	-	EA
37	SLIP ON WELDED FLANGE TO EXISTING 10" STEEL WATERLINE	2	EA
38	INSTALL 10" X 8" FLANGED REDUCER	2	EA
39	INSTALL 12" DIP PRESSURE CLASS 350 AND BEDDING PER BCVWD PLATE NO. 6-1	2,561	LF
40	INSTALL 12" FLANGED GATE VALVE PER BCVWD PLATE NO. 2	20	EA
41	INSTALL 12" FLANGED END BY MECHANICAL JOINT ADAPTER	19	EA
42	INSTALL 12" FLANGED END X MECHANICAL JOINT 90° ELBOW	2	EA
43	INSTALL 12" X 12" X 12" FLANGED TEE	5	EA
44	INSTALL 12" X 4" FLANGED REDUCER	2	EA
45	INSTALL 12" X 6" FLANGED REDUCER	2	EA
46	INSTALL 12" X 8" FLANGED REDUCER	3	EA
47	INSTALL 12" X 10" FLANGED REDUCER	1	EA
48	INSTALL 12" MECHANICAL JOINT SLEEVE WITH EBAA IRON SERIES 1100 RESTRAINT	5	EA
49	INSTALL 16" X 6" FLANGED REDUCER	1	EA
50	INSTALL 16" X 12" FLANGED REDUCER	2	EA
51	INSTALL 16" DIP PRESSURE CLASS 350 AND BEDDING PER BCVWD PLATE NO. 6-1	84	LF
52	INSTALL 16" X 16" X 16" X 16" FLANGED DUCTILE IRON CROSS	1	EA
53	INSTALL 16" FLANGED END X MECHANICAL JOINT ADAPTER	3	EA
54	INSTALL 16" FLANGED BUTTERFLY VALVE PER BCVWD PLATE NO. 2	3	EA
55	INSTALL THRUST BLOCK PER BCVWD PLATE 11-1 AND 11-2 (SCALE USING SOIL BEARING PRESSURE OF 1500 LBS/SF)	9	EA
56	INSTALL 12" X 12" X 12" X 12" FLANGED DUCTILE IRON CROSS	1	EA

*THESE CONSTRUCTION NOTES AND QUANTITIES APPLY ONLY TO SHEETS 8-14



DETAIL "P"
TIE-IN TO EXISTING 5" STEEL WATER MAIN
NOT TO SCALE



DETAIL "Q"
TIE-IN TO EXISTING 8" DIP WATER MAIN
NOT TO SCALE

ID	BEARING/Delta	RADIUS	LENGTH (LF)
22	N 02° 00' 00" E	-	25±
23	N 02° 00' 00" E	-	17±
24	N 90° 00' 00" E	-	16±
25	N 02° 00' 00" E	-	41±
26	N 90° 00' 00" E	-	34±
27	N 90° 00' 00" E	-	204±

RECORD COUNTY OVERSIGHT ENGINEER REGISTRATION # DATE SIGNED
APPROVED AS TO COMPLIANCE WITH APPLICABLE COUNTY STANDARDS AND PRACTICES (TRANSPORTATION DEPARTMENT ONLY - ROW/OFFSITE)

48 hours BEFORE excavation
1-(800)227-2600
CALL Underground Service Alert

SYM	REVISIONS	DATE	BY
▲	ADD SHEETS 7-14; DESIGN FOR PIPELINES 6A, 7, AND 8		
▲	ADD DESIGN FOR PIPELINE 6 WEST OF NOBLE STREET		

BEAUMONT-CHERRY VALLEY WATER DISTRICT
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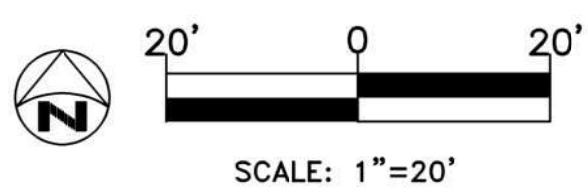
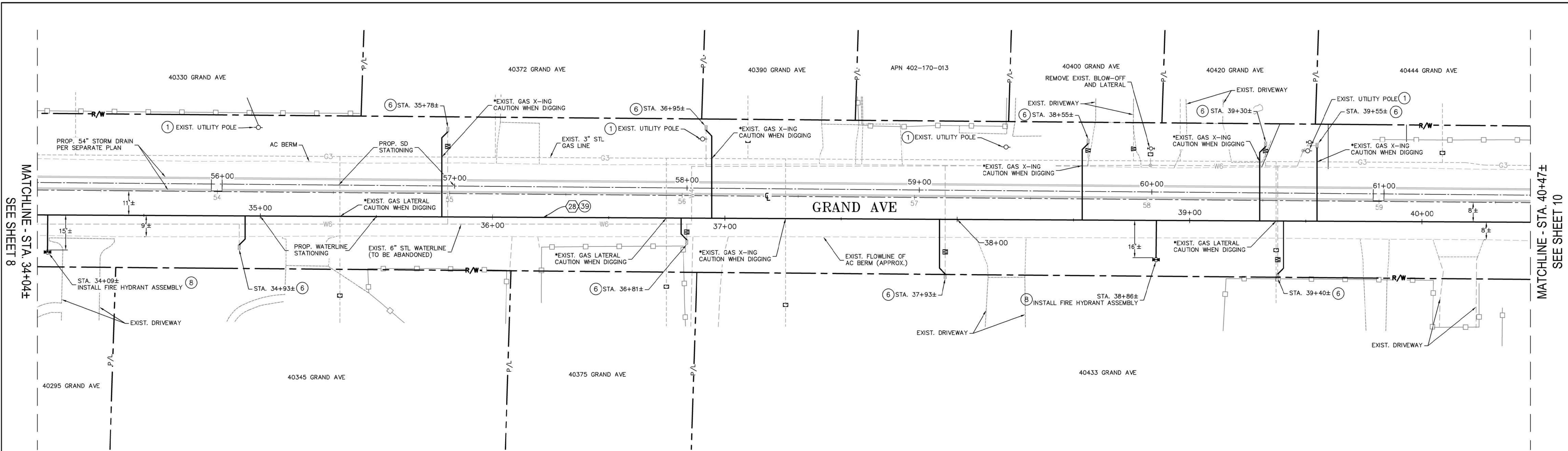
APPROVED BY _____ DATE _____
REGISTERED ENGINEER No. _____

"FOR BIDDING PURPOSES ONLY"

SCALE AS NOTED	BCVWD PIPELINE RELOCATION PLAN PIPELINE 7: STA. 30+00 - STA. 34+04± (GRAND AVE STA.: 49+20± - STA.: 53+25±) (MDP LINE 16: STA. 51+00 - STA. 55+20±)	SHEET 8 OF 14 SHEETS WO ### 2021-0007
FIELD BOOK N/A		
DESIGN EJW		
DRAWN EJW		
CHECKED MBS		

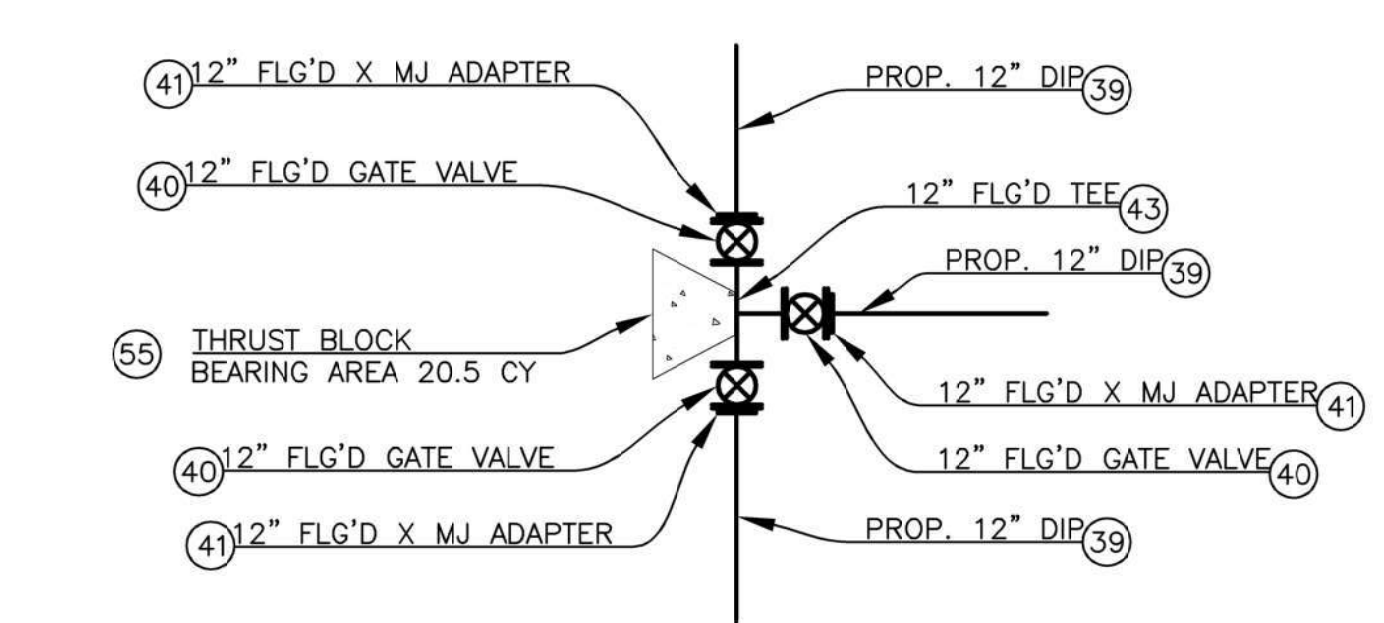
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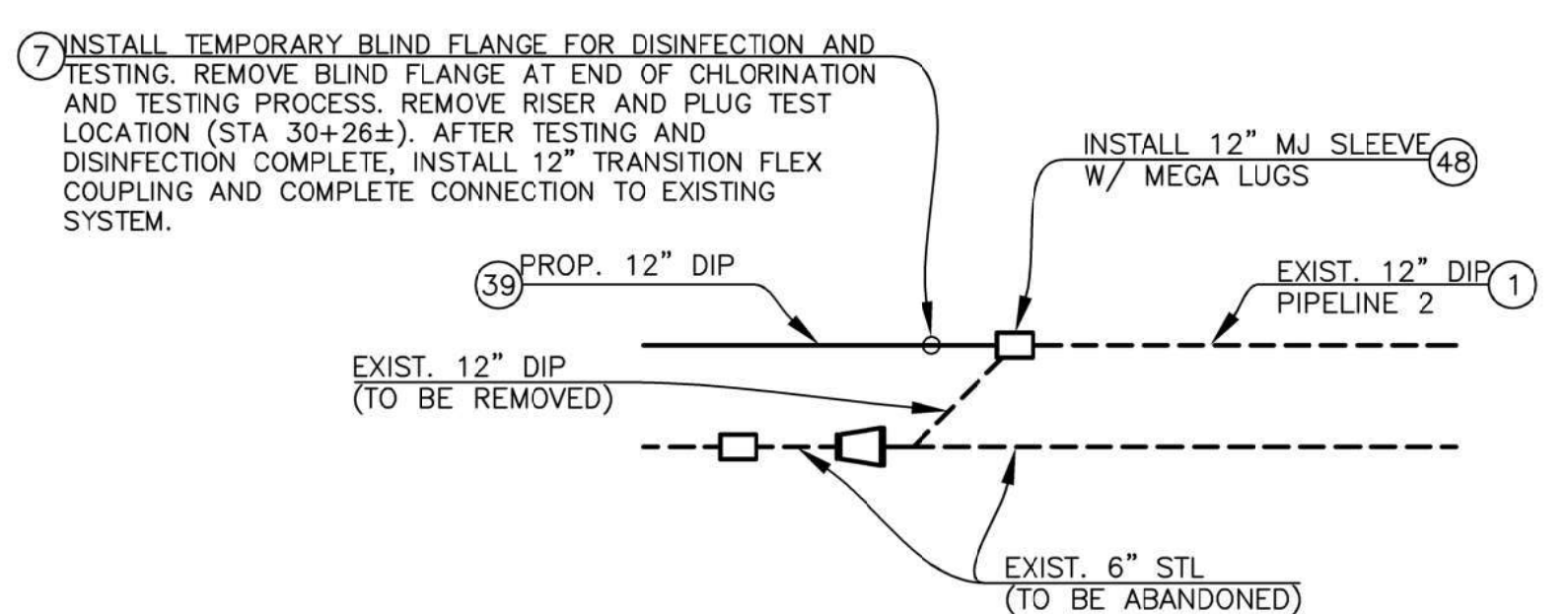


WATERLINE LINE/CURVE DATA TABLE			
ID	BEARING/DELTA	RADIUS	LENGTH (LF)
28	N 90° 00' 00" E	-	643±

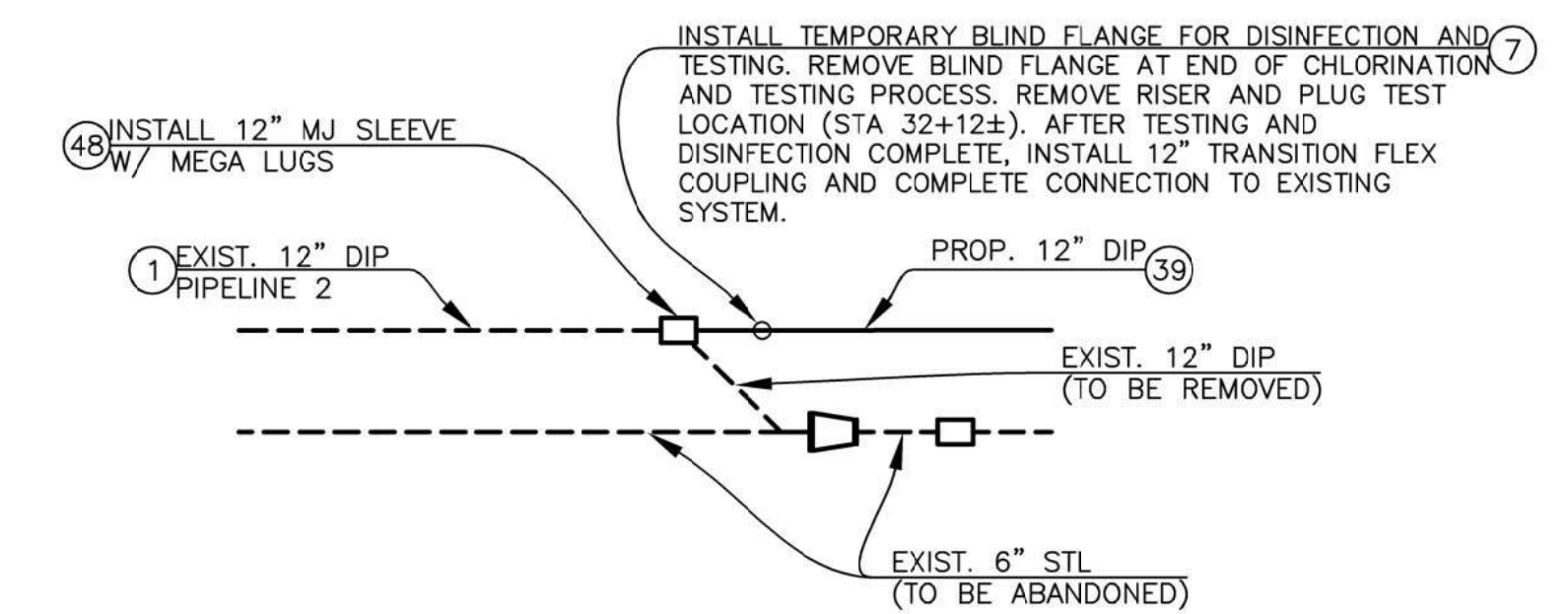
CONSTRUCTION NOTES AND QUANTITIES	
1	PROTECT IN PLACE
2	COMPLETE ALL TRENCH EXCAVATION, BACKFILL, AND PAVEMENT REPAIR PER BCVWD PLATE 6-1
3	ABANDON IN PLACE EXISTING PIPELINE AND PLUG SEVERED PIPE ENDS WITH 3" MINIMUM CLASS "C" CONCRETE PLUG (EACH END)
4	INSTALL RESTRAINED JOINTS (FIELD-LOK 350 GASKETS, MEGA LUGS (IF MECHANICAL JOINT) OR DISTRICT APPROVED EQUAL)
5	DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES (PER AWWA STANDARD)
6	INSTALL DISTRICT FURNISHED 1" SERVICE SADDLE, CORPORATION STOP, AND SERVICE LATERAL PER BCVWD STANDARD PLATE 6-3. ONCE TESTING AND DISINFECTION IS COMPLETE, REMOVE EXISTING METER AND INSTALL NEW DISTRICT FURNISHED METER AND CONNECT TO NEW SERVICE LATERAL.
7	INSTALL NEW 2" RISER AND TEST PLATE FOR DISINFECTION AND TESTING. REMOVE TEST PLATE AT END OF CHLORINATION AND TESTING PROCESS. REMOVE RISER AND PLUG TEST LOCATION.
8	INSTALL FIRE HYDRANT ASSEMBLY PER BCVWD PLATE NO. 1
39	INSTALL 12" DIP PRESSURE CLASS 350 AND BEDDING PER BCVWD PLATE NO. 6-1
40	INSTALL 12" FLANGED GATE VALVE PER BCVWD PLATE NO. 2
41	INSTALL 12" FLANGED END BY MECHANICAL JOINT ADAPTER
43	INSTALL 12" X 12" X 12" FLANGED TEE
48	INSTALL 12" MECHANICAL JOINT SLEEVE WITH EBAA IRON SERIES 1100 RESTRAINT
55	INSTALL THRUST BLOCK PER BCVWD PLATE 11-1 AND 11-2 (SCALE USING SOIL BEARING PRESSURE OF 1500 LBS/SF)



DETAIL "R"
PROPOSED 12" DIP TEE
 (WATERLINE STA. 30+00 = MDP LINE 16 STA. 51+16±)
 NOT TO SCALE



DETAIL "S"
12" DIP CONNECTION TO EXISTING 12" DIP WATER MAIN
 (WATERLINE STA 30+34± = MDP LINE 16 STA 51+50±)
 NOT TO SCALE



DETAIL "T"
EXISTING 12" DIP WATER MAIN CONNECTION TO PROPOSED 12" DIP
 (WATERLINE STA 32+00± = MDP LINE 16 STA 53+16±)
 NOT TO SCALE

RECORD COUNTY OVERSIGHT ENGINEER REGISTRATION # DATE SIGNED
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48 hours BEFORE excavation
1-(800)227-2600
 CALL Underground Service Alert

BEAUMONT-CHERRY VALLEY WATER DISTRICT	
ENGINEERING	DATE
TRANSMISSION & DISTRIBUTION	DATE
PRINT DATE	DATE
ADD SHEETS 7-14; DESIGN FOR PIPELINES 6A, 7, AND 8 ADD DESIGN FOR PIPELINE 6 WEST OF NOBLE STREET	
SYM	REVISIONS
	DATE BY

PRELIMINARY

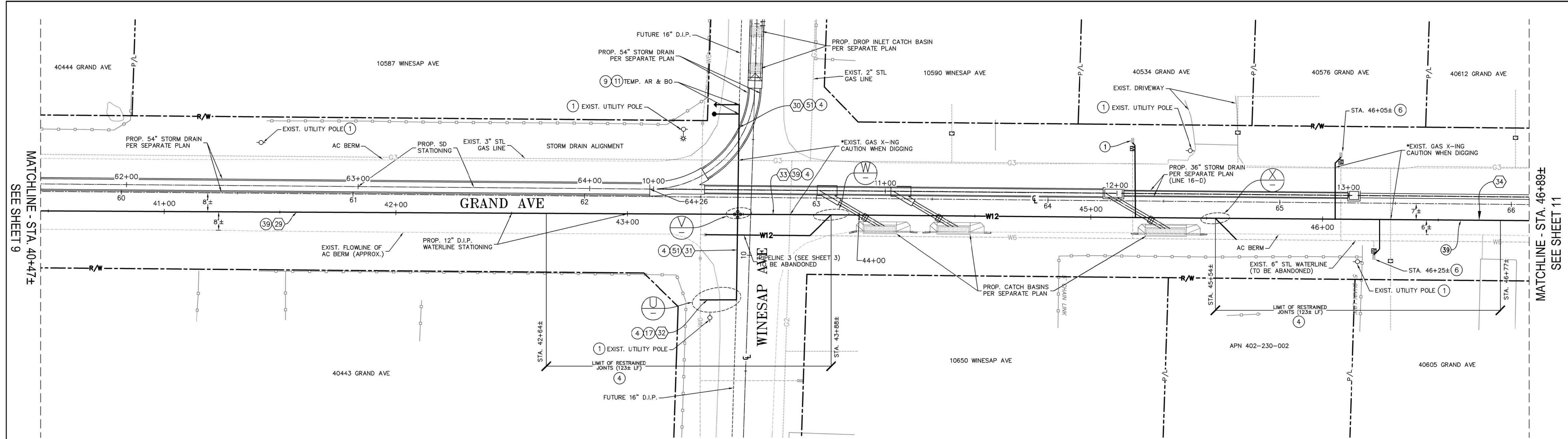
BEAUMONT-CHERRY VALLEY WATER DISTRICT
 560 Magnolia Ave. • Beaumont, CA. 92223 • 951-845-9581
 APPROVED BY _____ DATE _____
 REGISTERED ENGINEER No. _____ DATE _____

SCALE	AS NOTED
FIELD BOOK	N/A
DESIGN	EJW
DRAWN	EJW
CHECKED	MBS

BCVWD
 PIPELINE RELOCATION PLAN
 PIPELINE 7: STA. 34+04 - STA. 40+47±
 (GRAND AVE STA.: 53+20± - STA.: 59+65±)
 (MDP LINE 16: STA.: 55+20 - STA.: 61+63±)

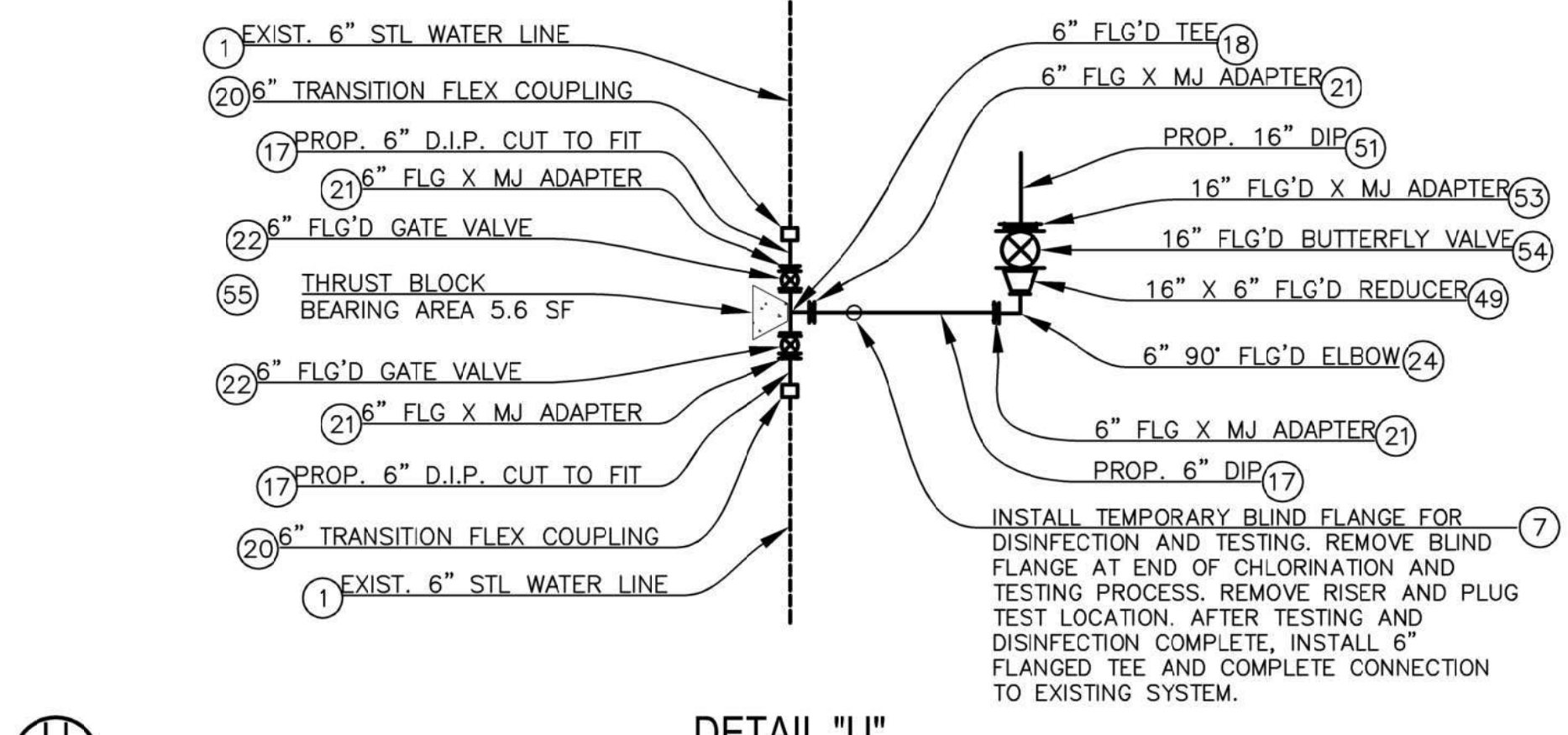
SHEET
9
 OF 14 SHEETS
 WO ###
 2021-0007

"FOR BIDDING PURPOSES ONLY" PZ 3040

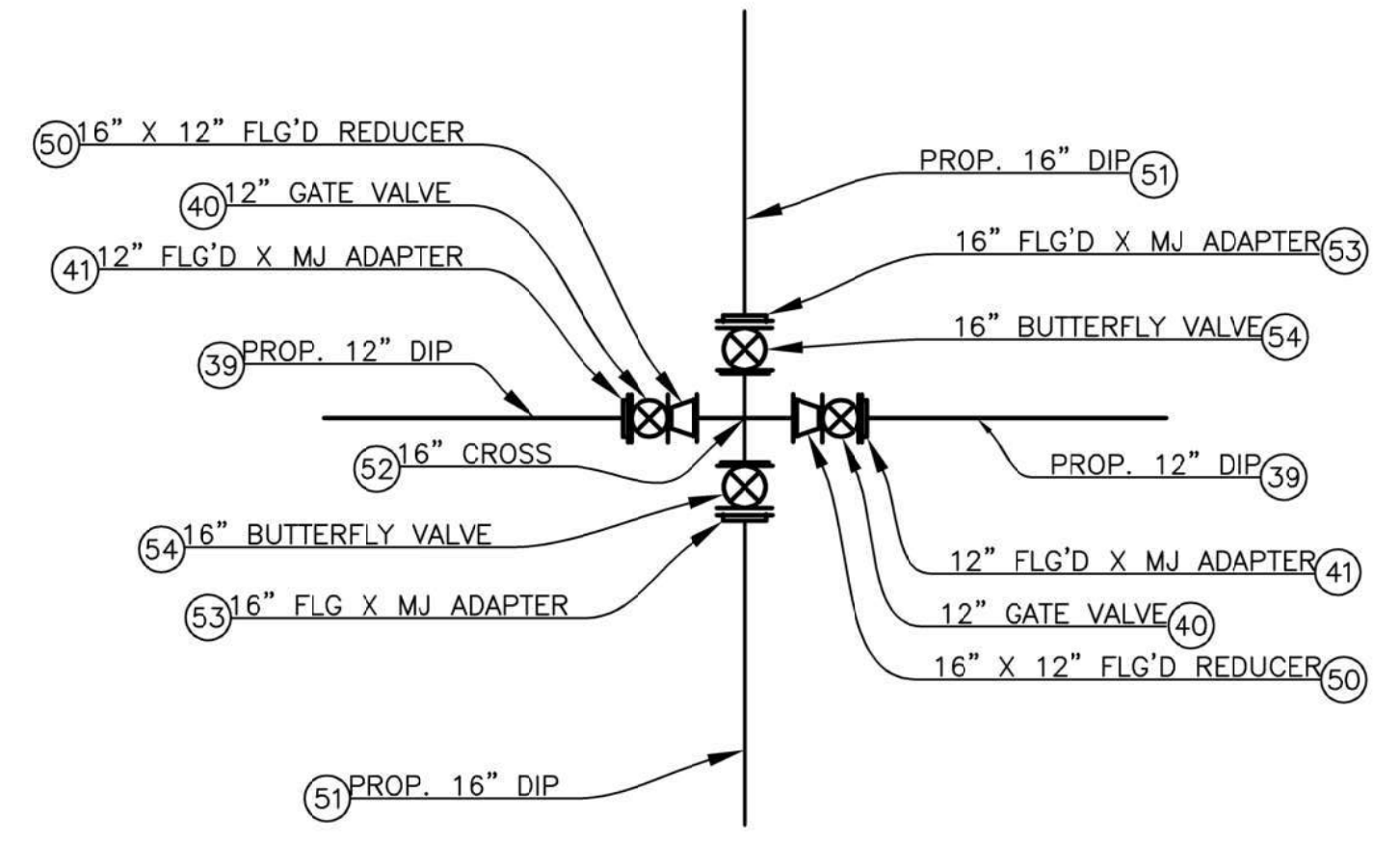


MATCHLINE - STA. 40+47±
SEE SHEET 9

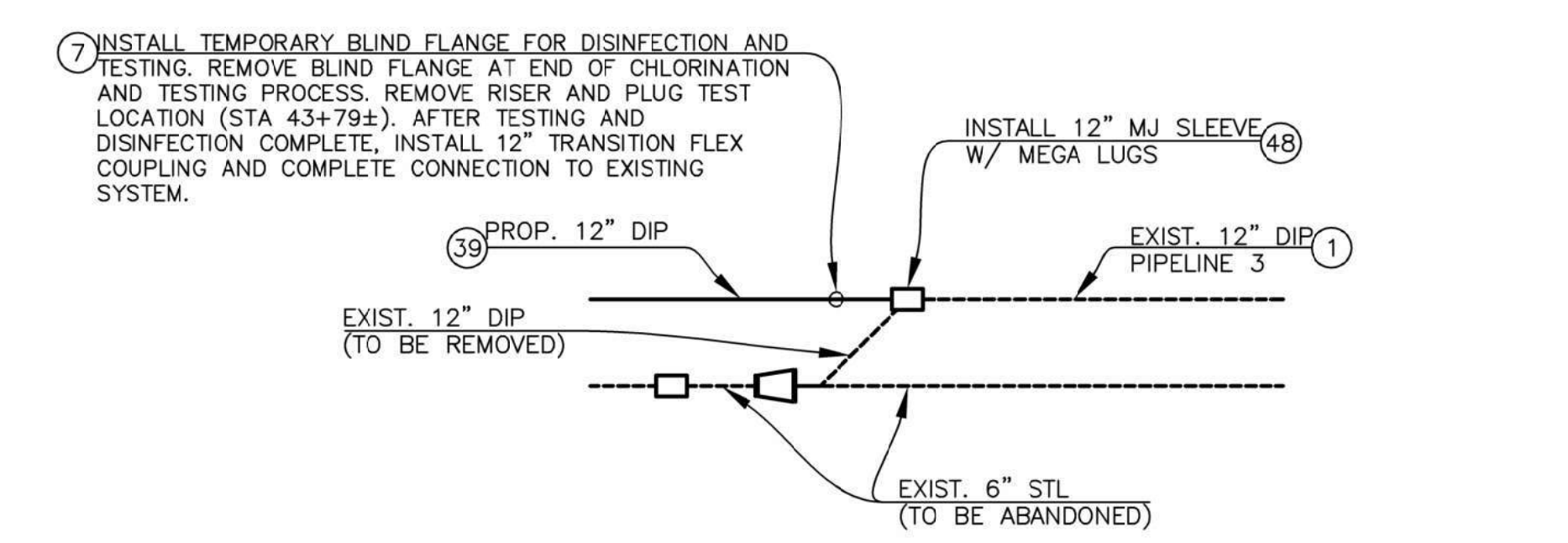
MATCHLINE - STA. 46+89±
SEE SHEET 11



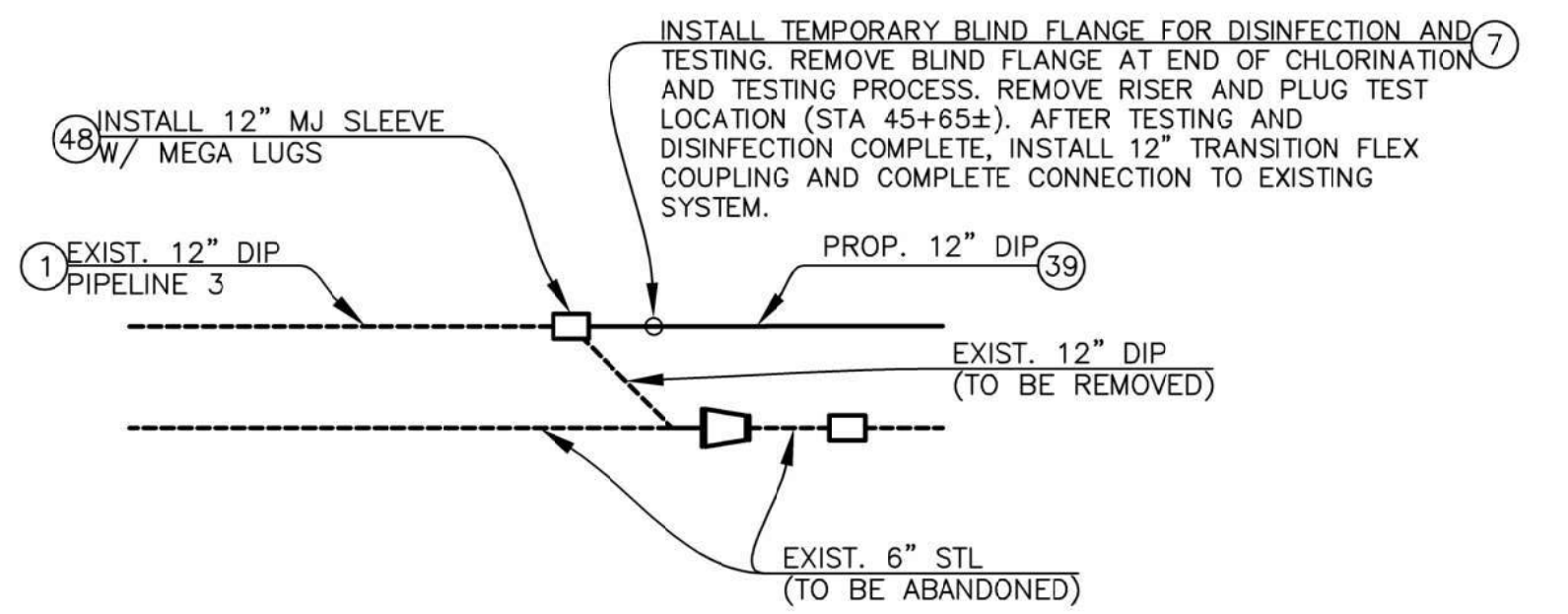
DETAIL "U"
TIE-IN TO EXISTING 6" STEEL WATER MAIN
NOT TO SCALE



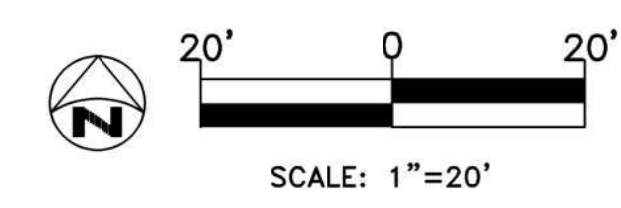
DETAIL "V"
PROPOSED WINESAP AVENUE CROSS
(WATERLINE STA. 43+47± = MDP LINE 16 AHEAD STA. 10+38±)
NOT TO SCALE



DETAIL "W"
12" DIP CONNECTION TO EXISTING 12" DIP WATER MAIN
(WATERLINE STA 43+88± = MDP LINE 16 AHEAD STA 10+78±)
NOT TO SCALE



DETAIL "X"
EXISTING 12" DIP WATER MAIN CONNECTION TO PROPOSED 12" DIP
(WATERLINE STA 45+54± = MDP LINE 16 AHEAD STA 12+44±)
NOT TO SCALE



ID	BEARING/DELTA	RADIUS	LENGTH (LF)
29	N 90° 00' 00" E	-	301±
30	N 01° 00' 00" E	-	47±
31	N 01° 00' 00" E	-	37±
32	N 90° 00' 00" E	-	16±
33	N 90° 00' 00" E	-	40±
34	N 90° 00' 00" E	-	135±

- CONSTRUCTION NOTES AND QUANTITIES**
- 1) PROTECT IN PLACE
 - 2) COMPLETE ALL TRENCH EXCAVATION, BACKFILL, AND PAVEMENT REPAIR PER BCVWD PLATE 6-1
 - 3) ABANDON IN PLACE EXISTING PIPELINE AND PLUG SEVERED PIPE ENDS WITH 3" MINIMUM CLASS "C" CONCRETE PLUG (EACH END)
 - 4) INSTALL RESTRAINED JOINTS (FIELD-LOK 350 GASKETS, MEGA LUGS (IF MECHANICAL JOINT) OR DISTRICT APPROVED EQUAL)
 - 5) DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES (PER AWWA STANDARD)
 - 6) INSTALL DISTRICT FURNISHED 1" SERVICE SADDLE, CORPORATION STOP, AND SERVICE LATERAL PIPING PER BCVWD STANDARD PLATE 6-3. ONCE TESTING AND DISINFECTION IS COMPLETE, REMOVE EXISTING METER AND INSTALL NEW DISTRICT FURNISHED METER AND CONNECT TO NEW SERVICE LATERAL.
 - 7) INSTALL NEW 2" RISER AND TEST PLATE FOR DISINFECTION AND TESTING. REMOVE TEST PLATE AT END OF CHLORINATION AND TESTING PROCESS. REMOVE RISER AND PLUG TEST LOCATION.
 - 9) INSERT 2" AIR RELEASE AND VACUUM VALVE ASSEMBLY PER BCVWD PLATE NO. 5
 - 11) INSTALL 4" BLOW-OFF ASSEMBLY PER BCVWD PLATE NO. 3-1
 - 17) INSTALL 6" DIP PRESSURE CLASS 350 AND BEDDING PER BCVWD PLATE NO. 6-1
 - 18) INSTALL 6" X 6" X 6" FLG'D TEE
 - 20) INSTALL 6" TRANSITION FLEX COUPLING
 - 21) INSTALL 6" FLG'D X MJ ADAPTER
 - 22) INSTALL 6" FLG'D GATE VALVE PER BCVWD PLATE NO. 2
 - 24) INSTALL 6" 90 DEG FLG'D ELBOW
 - 39) INSTALL 12" DIP PRESSURE CLASS 350 AND BEDDING PER BCVWD PLATE NO. 6-1
 - 40) INSTALL 12" FLANGED GATE VALVE PER BCVWD PLATE NO. 2
 - 41) INSTALL 12" FLANGED END BY MECHANICAL JOINT ADAPTER
 - 48) INSTALL 12" MECHANICAL JOINT SLEEVE WITH EBAA IRON SERIES 1100 RESTRAINT
 - 49) INSTALL 16" X 6" FLANGED REDUCER
 - 50) INSTALL 16" X 12" FLANGED REDUCER
 - 51) INSTALL 16" DIP PRESSURE CLASS 350 AND BEDDING PER BCVWD PLATE NO. 6-1
 - 52) INSTALL 16" X 16" X 16" X 16" FLANGED DUCTILE IRON CROSS
 - 53) INSTALL 16" FLANGED END X MECHANICAL JOINT ADAPTER
 - 54) INSTALL 16" FLANGED BUTTERFLY VALVE PER BCVWD PLATE NO. 2
 - 55) INSTALL THRUST BLOCK PER BCVWD PLATE 11-1 AND 11-2 (SCALE USING SOIL BEARING PRESSURE OF 1500 LBS/SF)

RECORD COUNTY OVERSIGHT ENGINEER REGISTRATION # DATE SIGNED
APPROVED AS TO COMPLIANCE WITH APPLICABLE COUNTY STANDARDS AND PRACTICES (TRANSPORTATION DEPARTMENT ONLY - ROW/OFFSITE)

48 hours BEFORE excavation
1-(800)227-2600
CALL Underground Service Alert

BEAUMONT-CHERRY VALLEY WATER DISTRICT				
ENGINEERING				
TRANSMISSION & DISTRIBUTION				
PRINT DATE				
SYM	ADD SHEETS 7-14; DESIGN FOR PIPELINES 6A, 7, AND 8 ADD DESIGN FOR PIPELINE 6 WEST OF NOBLE STREET	REVISIONS	DATE	BY

BEAUMONT-CHERRY VALLEY WATER DISTRICT
560 Magnolia Ave. • Beaumont, CA. 92223 • 951-845-9581

APPROVED BY: _____ DATE: _____
REGISTERED ENGINEER No. _____

BCVWD

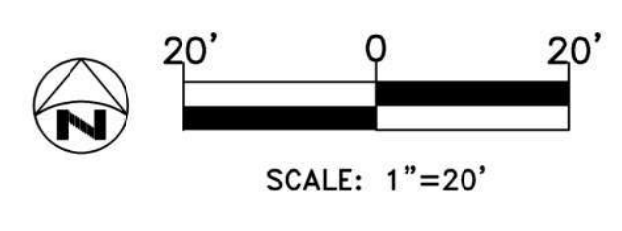
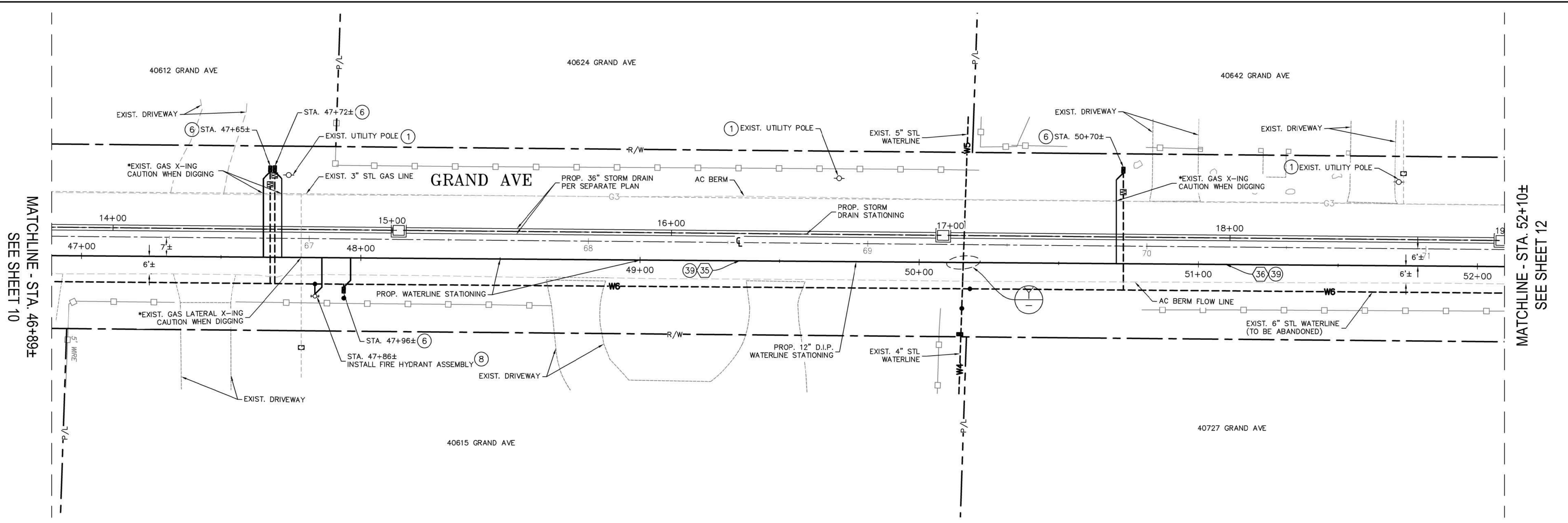
SCALE AS NOTED
FIELD BOOK N/A
DESIGN E/JW
DRAWN E/JW
CHECKED MRS

PIPELINE RELOCATION PLAN
PIPELINE 7: STA. 40+47± - STA. 46+89±
(GRAND AVE STA.: 50+85± - STA.: 66+10±)
(MDP LINE 16 STA.: 61+83± - LINE 16-D STA.: 13+80±)

SHEET **10**
OF 14 SHEETS
WO ###
2021-0007

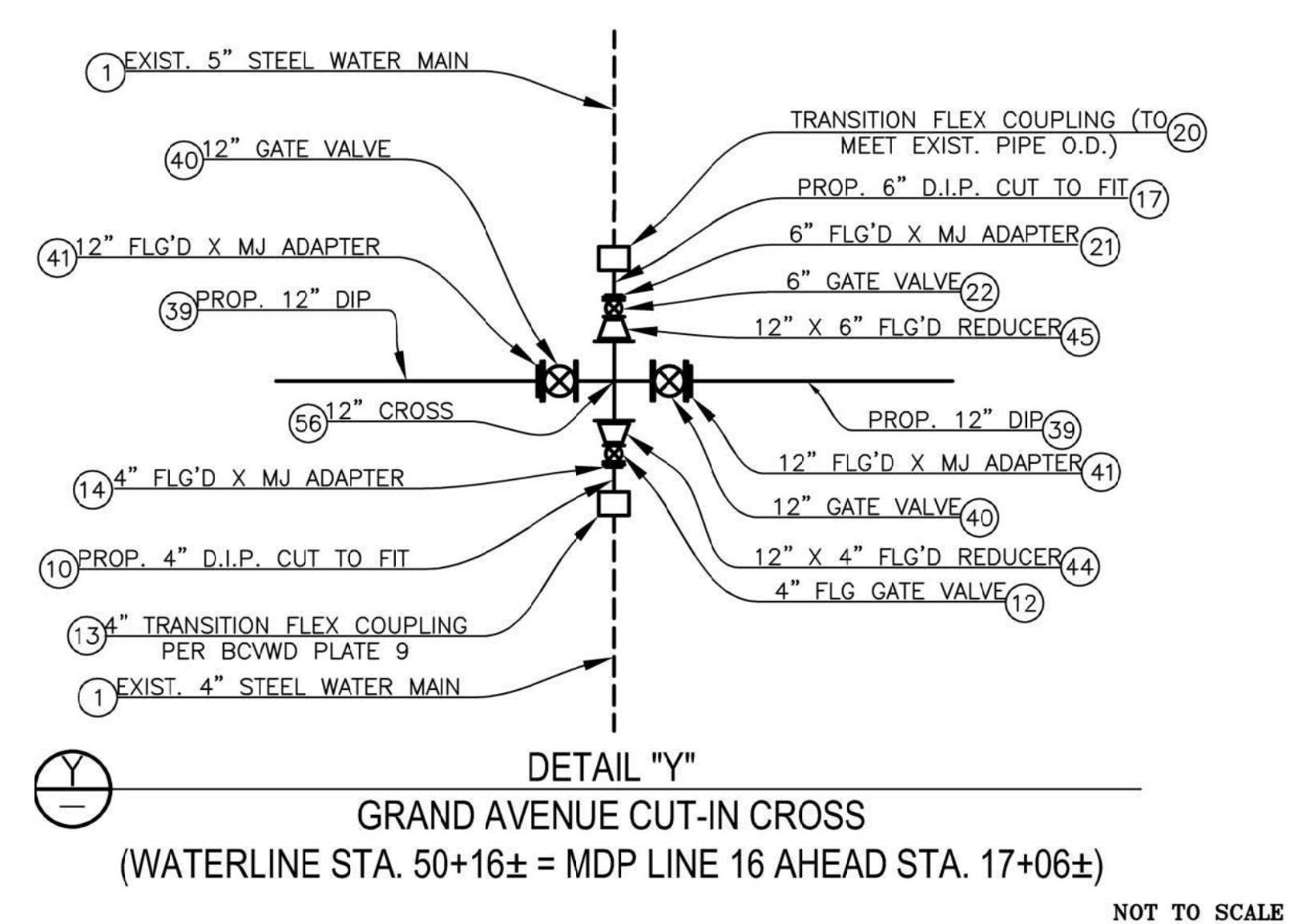
"FOR BIDDING PURPOSES ONLY" PZ 3040

PRELIMINARY



MATCHLINE - STA. 46+89±
SEE SHEET 10

MATCHLINE - STA. 52+10±
SEE SHEET 12



	BEARING/DELTA	RADIUS	LENGTH (LF)
(35)	N 90° 00' 00" E	-	327±
(36)	N 90° 00' 00" E	-	194±

(1)	PROTECT IN PLACE
(2)	COMPLETE ALL TRENCH EXCAVATION, BACKFILL, AND PAVEMENT REPAIR PER BCVD PLATE 6-1
(3)	ABANDON IN PLACE EXISTING PIPELINE AND PLUG SEVERED PIPE ENDS WITH 3" MINIMUM CLASS "C" CONCRETE PLUG (EACH END)
(4)	INSTALL RESTRAINED JOINTS (FIELD-LOK 350 GASKETS, MEGA LUGS (IF MECHANICAL JOINT) OR DISTRICT APPROVED EQUAL)
(5)	DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES (PER AWWA STANDARD)
(6)	INSTALL DISTRICT FURNISHED 1" SERVICE SADDLE, CORPORATION STOP, AND SERVICE LATERAL PIPING PER BCVD STANDARD PLATE 6-3. ONCE TESTING AND DISINFECTION IS COMPLETE, REMOVE EXISTING METER AND INSTALL NEW DISTRICT FURNISHED METER AND CONNECT TO NEW SERVICE LATERAL.
(8)	INSTALL FIRE HYDRANT ASSEMBLY PER BCVD PLATE NO. 1
(12)	INSTALL 4" FLANGED GATE VALVE PER BCVD PLATE NO. 2
(13)	INSTALL 4" TRANSITION FLEX COUPLING FROM 4.5" - 4.81" (ROMAC LONG BARREL) AND TIES PER BCVD PLATE 9
(14)	INSTALL 4" FLANGED END BY MECHANICAL JOINT ADAPTER
(20)	INSTALL 6" TRANSITION FLEX COUPLING
(21)	INSTALL 6" FLG'D X MJ ADAPTER
(22)	INSTALL 6" FLG'D GATE VALVE PER BCVD PLATE NO. 2
(39)	INSTALL 12" DIP PRESSURE CLASS 350 AND BEDDING PER BCVD PLATE NO. 6-1
(40)	INSTALL 12" FLANGED GATE VALVE PER BCVD PLATE NO. 2
(41)	INSTALL 12" FLANGED END BY MECHANICAL JOINT ADAPTER
(44)	INSTALL 12" X 4" FLANGED REDUCER
(45)	INSTALL 12" X 6" FLANGED REDUCER
(56)	INSTALL 12" X 12" X 12" X 12" FLANGED DUCTILE IRON CROSS

RECORD COUNTY OVERSIGHT ENGINEER REGISTRATION # DATE SIGNED
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48 hours BEFORE excavation
1-(800)227-2600
CALL Underground Service Alert

SYMBOL	REVISIONS	DATE	BY
▲	ADD SHEETS 7-14; DESIGN FOR PIPELINES 6A, 7, AND 8		
▲	ADD DESIGN FOR PIPELINE 6 WEST OF NOBLE STREET		

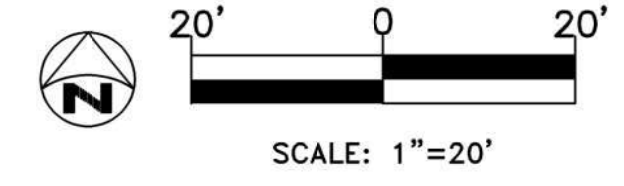
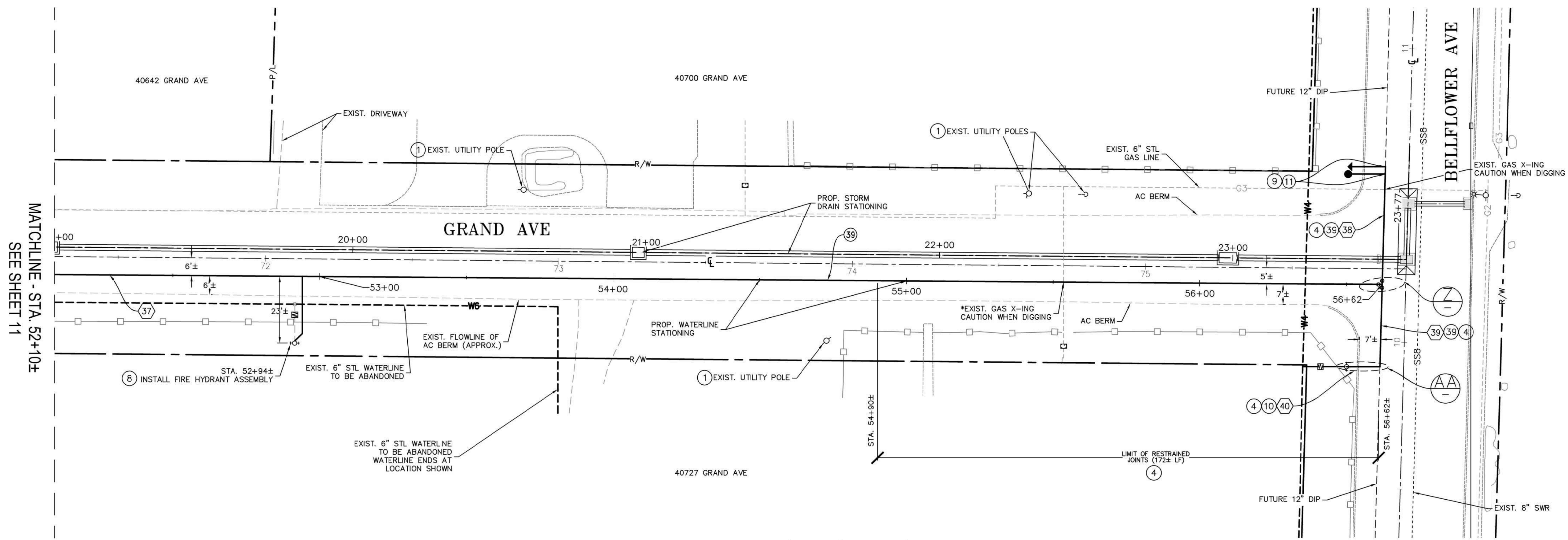
PRELIMINARY

BEAUMONT-CHERRY VALLEY WATER DISTRICT
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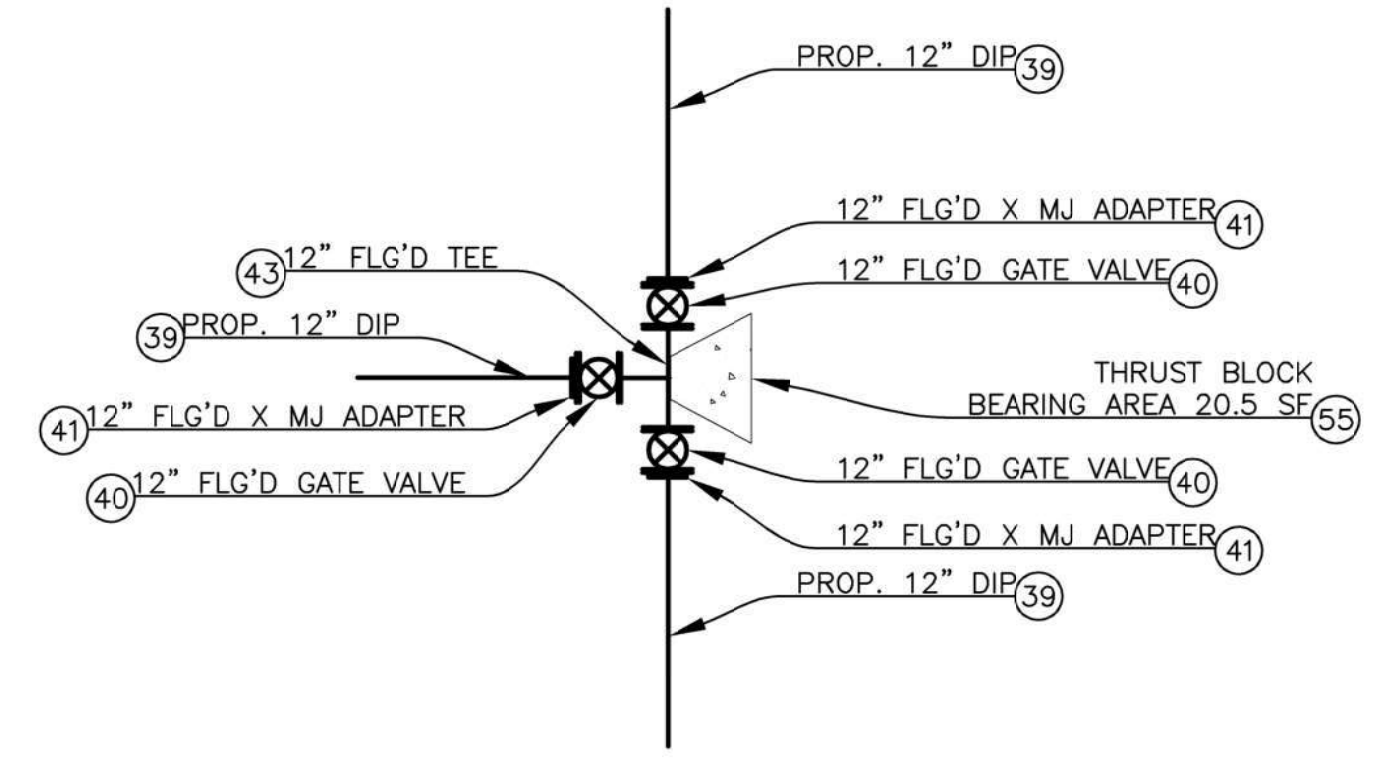
APPROVED BY _____ DATE _____
REGISTERED ENGINEER No. _____ DATE _____

"FOR BIDDING PURPOSES ONLY" PZ 3040

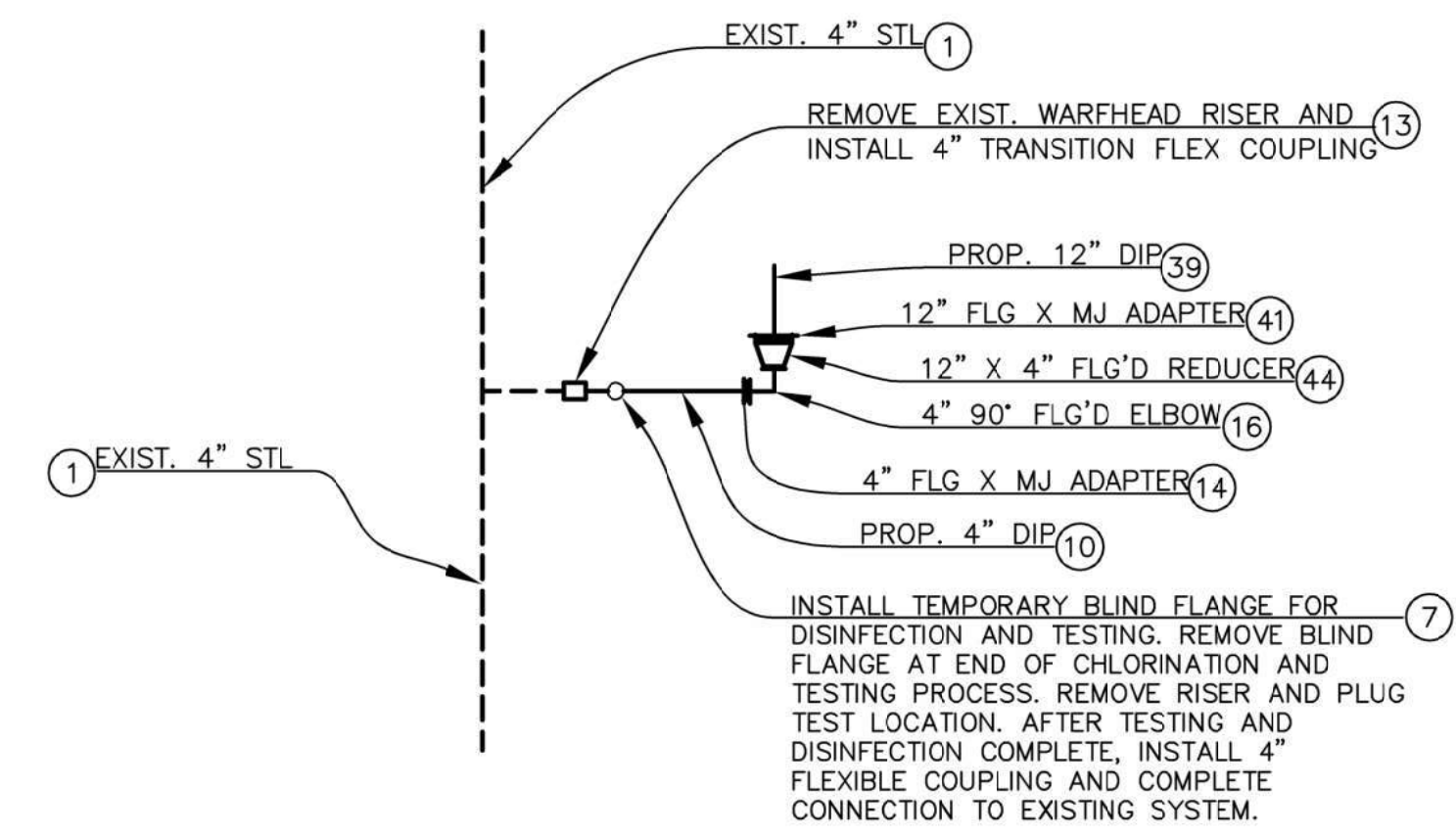
SCALE AS NOTED	BCVWD PIPELINE RELOCATION PLAN PIPELINE 7: STA. 46+89± - STA. 52+10± (GRAND AVE STA.: 46+90± - STA.: 71+30±) (LINE 16-D STA.: 13+80± - STA.: 19+00±)	SHEET 11 OF 14 SHEETS WO ### 2021-0007
FIELD BOOK N/A		
DESIGN EJW		
DRAWN EJW		
CHECKED MBS		



WATERLINE LINE/CURVE DATA TABLE			
	BEARING/DELTA	RADIUS	LENGTH (LF)
(37)	N 90° 00' 00" E	-	452±
(38)	N 2° 00' 00" E	-	40±
(39)	N 2° 00' 00" E	-	28±
(40)	N 90° 00' 00" E	-	11±



DETAIL "Z"
 PROPOSED 12" DIP TEE WITHIN BELLFLOWER AVE
 (WATERLINE STA. 56+62± = MDP LINE 16 AHEAD STA. 23+53±)
 NOT TO SCALE



DETAIL "AA"
 TIE-IN TO EXISTING 4" STEEL WATER MAIN
 NOT TO SCALE

CONSTRUCTION NOTES AND QUANTITIES	
(1)	PROTECT IN PLACE
(2)	COMPLETE ALL TRENCH EXCAVATION, BACKFILL, AND PAVEMENT REPAIR PER BCVWD PLATE 6-1
(3)	ABANDON IN PLACE EXISTING PIPELINE AND PLUG SEVERED PIPE ENDS WITH 3" MINIMUM CLASS "C" CONCRETE PLUG (EACH END)
(4)	INSTALL RESTRAINED JOINTS (FIELD-LOK 350 GASKETS, MEGA LUGS (IF MECHANICAL JOINT) OR DISTRICT APPROVED EQUAL)
(5)	DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES (PER AWWA STANDARD)
(7)	INSTALL NEW 2" RISER AND TEST PLATE FOR DISINFECTION AND TESTING. REMOVE TEST PLATE AT END OF CHLORINATION AND TESTING PROCESS. REMOVE RISER AND PLUG TEST LOCATION.
(8)	INSTALL FIRE HYDRANT ASSEMBLY PER BCVWD PLATE NO. 1
(9)	INSERT 2" AIR RELEASE AND VACUUM VALVE ASSEMBLY PER BCVWD PLATE NO. 5
(10)	INSTALL 4" DIP PRESSURE CLASS 350 AND BEDDING PER BCVWD PLATE NO. 6-1
(11)	INSTALL 4" BLOW-OFF ASSEMBLY PER BCVWD PLATE NO. 3-1
(13)	INSTALL 4" TRANSITION FLEX COUPLING FROM 4.5" - 4.81" (ROMAC LONG BARREL) AND TIES PER BCVWD PLATE 9
(14)	INSTALL 4" FLANGED END BY MECHANICAL JOINT ADAPTER
(16)	INSTALL 4" FLANGED 90 ELBOW
(39)	INSTALL 12" DIP PRESSURE CLASS 350 AND BEDDING PER BCVWD PLATE NO. 6-1
(40)	INSTALL 12" FLANGED GATE VALVE PER BCVWD PLATE NO. 2
(41)	INSTALL 12" FLANGED END BY MECHANICAL JOINT ADAPTER
(43)	INSTALL 12" X 12" X 12" FLANGED TEE
(44)	INSTALL 12" X 4" FLANGED REDUCER
(55)	INSTALL THRUST BLOCK PER BCVWD PLATE 11-1 AND 11-2 (SCALE USING SOIL BEARING PRESSURE OF 1500 LBS/SF)

RECORD COUNTY OVERSIGHT ENGINEER REGISTRATION # DATE SIGNED
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BEAUMONT-CHERRY VALLEY WATER DISTRICT	
ENGINEERING	
TRANSMISSION & DISTRIBUTION	
PRINT DATE	
SYMBOL	REVISIONS
	DATE BY
ADD SHEETS 7-14; DESIGN FOR PIPELINES 6A, 7, AND 8 ADD DESIGN FOR PIPELINE 6 WEST OF NOBLE STREET	

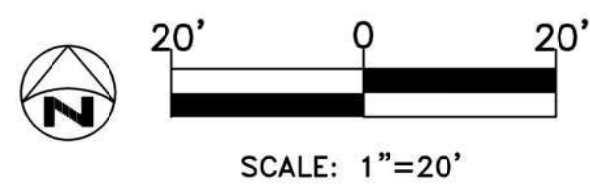
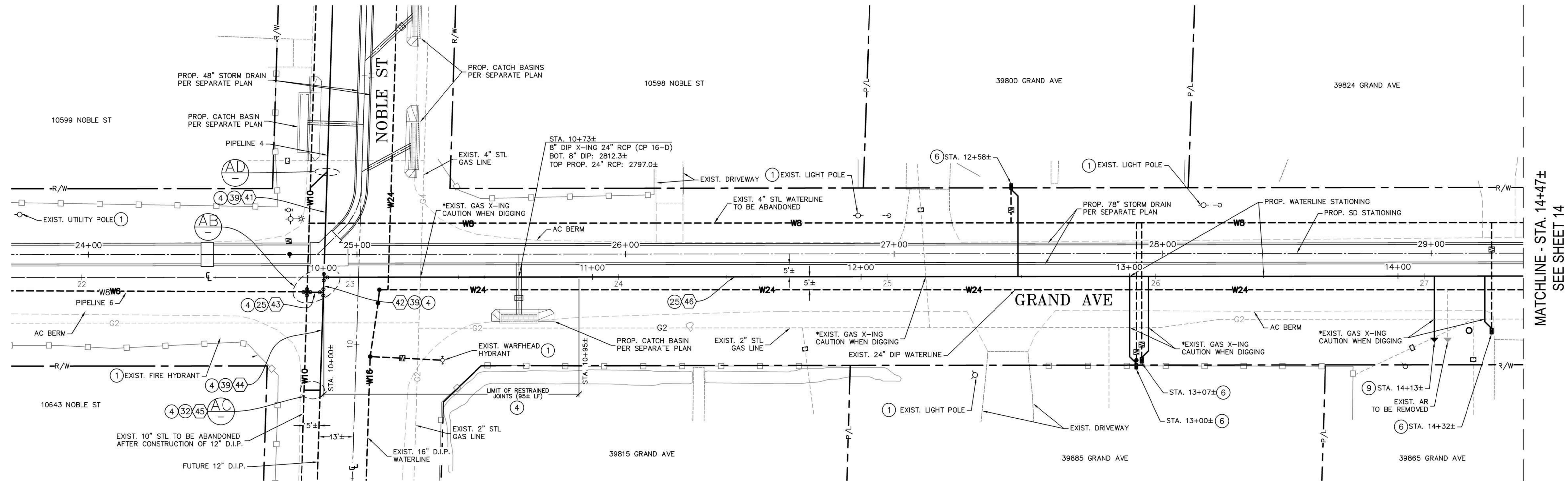
PRELIMINARY

BEAUMONT-CHERRY VALLEY WATER DISTRICT
 560 Magnolia Ave. • Beaumont, CA. 92223 • 951-845-9581
 APPROVED BY _____ DATE _____
 REGISTERED ENGINEER No. _____

"FOR BIDDING PURPOSES ONLY"

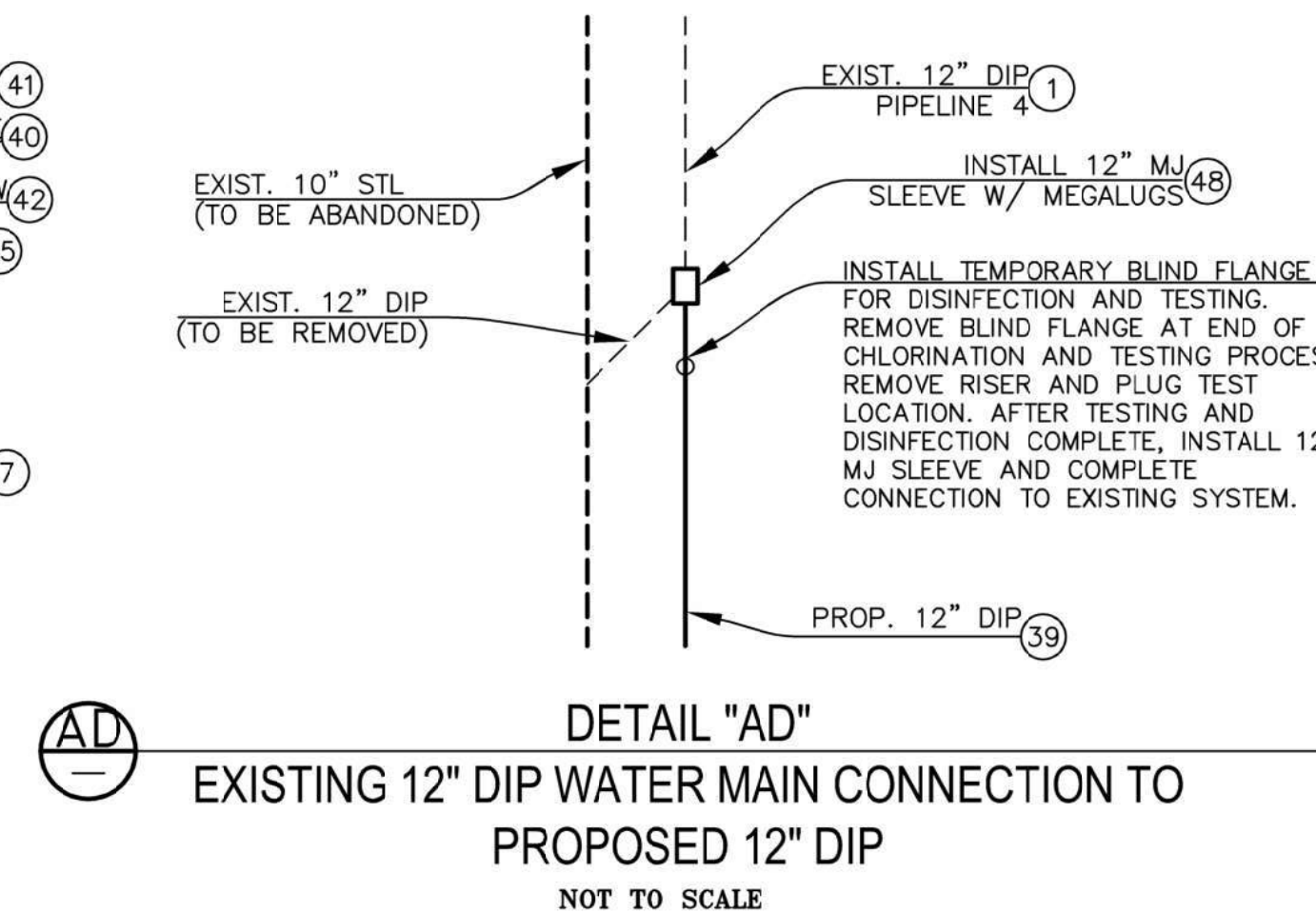
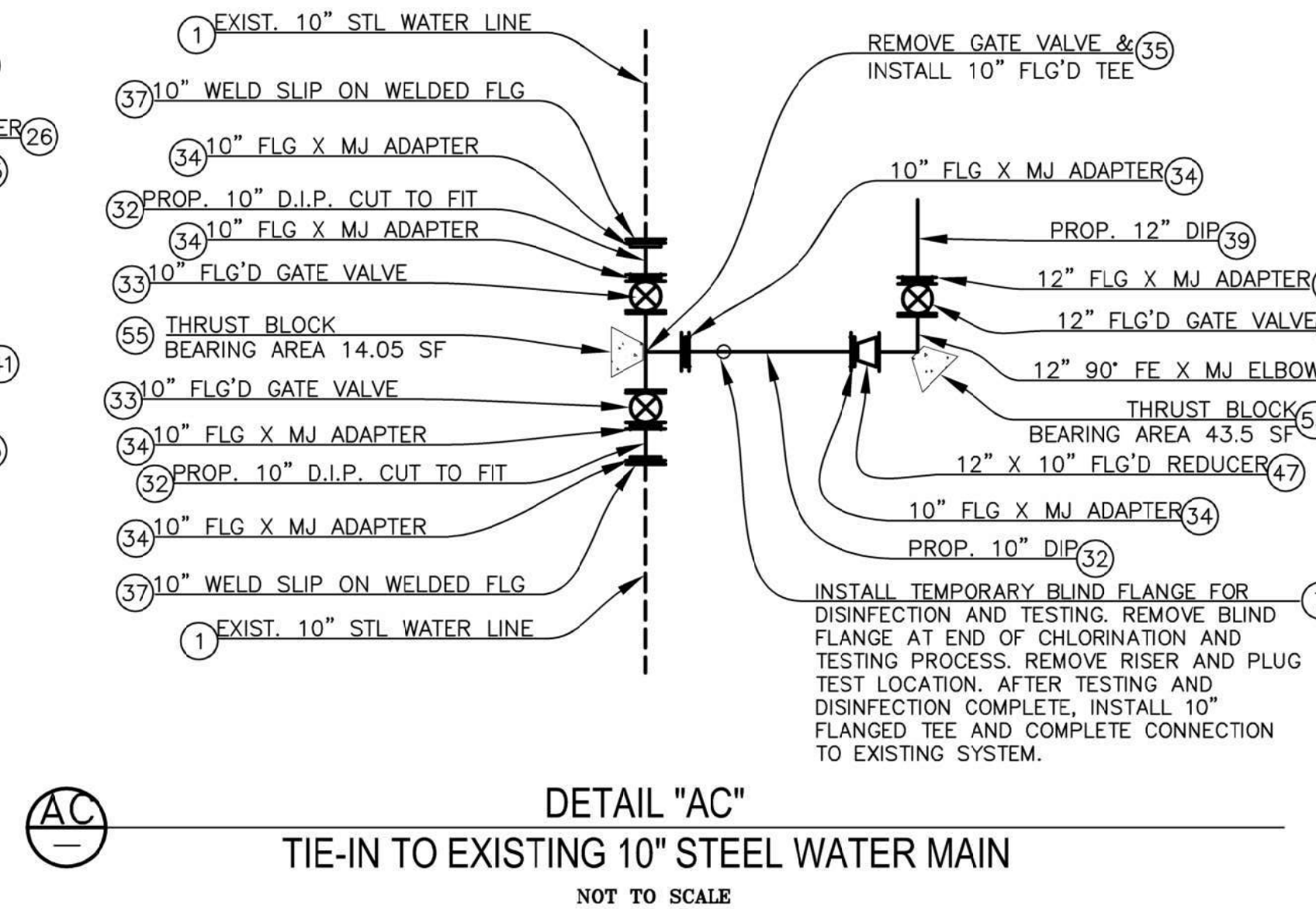
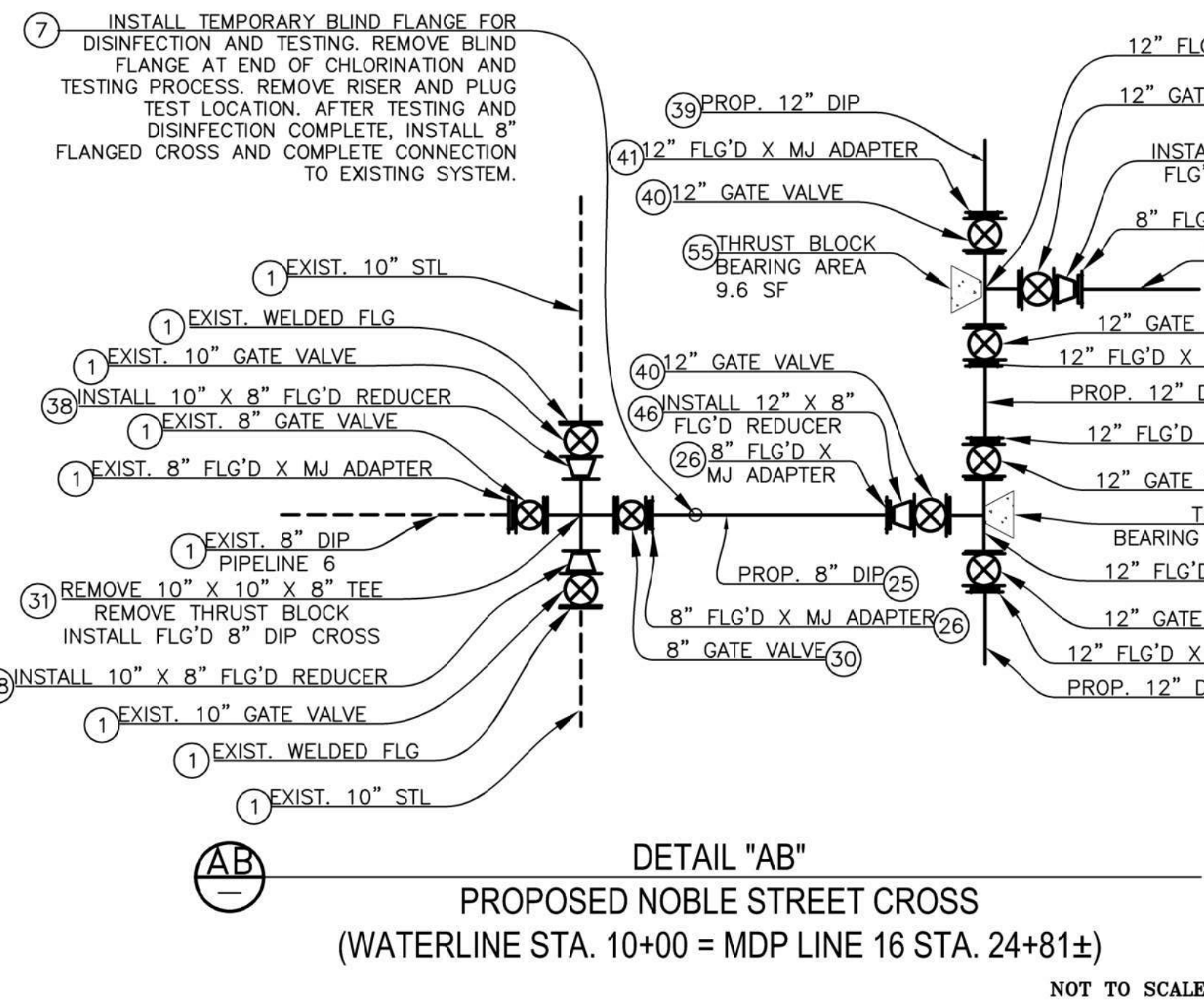
SCALE AS NOTED FIELD BOOK N/A DESIGN E/JW DRAWN E/JW CHECKED MBS	BCVWD PIPELINE RELOCATION PLAN PIPELINE 7: STA. 52+10± - STA. 56+62± (GRAND AVE STA.: 71+30± - 75+80±) (LINE 16-D STA.: 19+00± - STA.: 23+61±)	SHEET 12 OF 14 SHEETS WO ### 2021-0007
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PZ 3040



ID	BEARING/Delta	RADIUS	LENGTH (LF)
41	N 02° 00' 00" E	-	39±
42	N 02° 00' 00" E	-	6±
43	N 90° 00' 00" E	-	6±
44	N 2° 00' 00" E	-	37±
45	N 90° 00' 00" E	-	6±
46	N 90° 00' 00" E	-	447±

- | CONSTRUCTION NOTES AND QUANTITIES | |
|-----------------------------------|--|
| 1 | PROTECT IN PLACE |
| 2 | COMPLETE ALL TRENCH EXCAVATION, BACKFILL, AND PAVEMENT REPAIR PER BCVWD PLATE 6-1 |
| 3 | ABANDON IN PLACE EXISTING PIPELINE AND PLUG SEVERED PIPE ENDS WITH 3" MINIMUM CLASS "C" CONCRETE PLUG (EACH END) |
| 4 | INSTALL RESTRAINED JOINTS (FIELD-LOK 350 GASKETS, MEGA LUGS (IF MECHANICAL JOINT) OR DISTRICT APPROVED EQUAL) |
| 5 | DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES (PER AWWA STANDARD) |
| 6 | INSTALL DISTRICT FURNISHED 1" SERVICE SADDLE, CORPORATION STOP, AND SERVICE LATERAL PIPING PER BCVWD STANDARD PLATE 6-3. ONCE TESTING AND DISINFECTION IS COMPLETE, REMOVE EXISTING METER AND INSTALL NEW DISTRICT FURNISHED METER AND CONNECT TO NEW SERVICE LATERAL. |
| 7 | INSTALL NEW 2" RISER AND TEST PLATE FOR DISINFECTION AND TESTING. REMOVE TEST PLATE AT END OF CHLORINATION AND TESTING PROCESS. REMOVE RISER AND PLUG TEST LOCATION. |
| 9 | INSERT 2" AIR RELEASE AND VACUUM VALVE ASSEMBLY PER BCVWD PLATE NO. 5 |
| 10 | INSTALL 4" DIP PRESSURE CLASS 350 AND BEDDING PER BCVWD PLATE NO. 6-1 |
| 11 | INSTALL 4" BLOW-OFF ASSEMBLY PER BCVWD PLATE NO. 3-1 |
| 25 | INSTALL 8" DIP PRESSURE CLASS 350 AND BEDDING PER BCVWD PLATE NO. 6-1 |
| 26 | INSTALL 8" FLANGED END X MECHANICAL JOINT ADAPTER |
| 30 | INSTALL 8" FLANGED GATE VALVE PER BCVWD PLATE NO. 2 |
| 31 | INSTALL 8" X 8" X 8" X 8" FLANGED DUCTILE IRON CROSS |
| 32 | INSTALL 10" DIP PRESSURE CLASS 350 AND BEDDING PER BCVWD PLATE NO. 6-1 |
| 33 | INSTALL 10" FLANGED GATE VALVE PER BCVWD PLATE NO. 2 |
| 34 | INSTALL 10" FLANGED X MECHANICAL JOINT ADAPTER |
| 35 | INSTALL 10" X 10" X 10" FLANGED TEE |
| 37 | SLIP ON WELDED FLANGE TO EXISTING 10" STEEL WATERLINE |
| 38 | INSTALL 10" X 8" FLANGED REDUCER |
| 39 | INSTALL 12" DIP PRESSURE CLASS 350 AND BEDDING PER BCVWD PLATE NO. 6-1 |
| 40 | INSTALL 12" FLANGED GATE VALVE PER BCVWD PLATE NO. 2 |
| 41 | INSTALL 12" FLANGED END BY MECHANICAL JOINT ADAPTER |
| 42 | INSTALL 12" FLANGED END X MECHANICAL JOINT 90° ELBOW |
| 43 | INSTALL 12" X 12" X 12" FLANGED TEE |
| 46 | INSTALL 12" X 8" FLANGED REDUCER |
| 47 | INSTALL 12" X 10" FLANGED REDUCER |
| 48 | INSTALL 12" MECHANICAL JOINT SLEEVE WITH EBAA IRON SERIES 1100 RESTRAINT |
| 55 | INSTALL THRUST BLOCK PER BCVWD PLATE 11-1 AND 11-2 (SCALE USING SOIL BEARING PRESSURE OF 1500 LBS/SF) |



RECORD COUNTY OVERSIGHT ENGINEER REGISTRATION # DATE SIGNED
 APPROVED AS TO COMPLIANCE WITH APPLICABLE COUNTY STANDARDS AND PRACTICES (TRANSPORTATION DEPARTMENT ONLY - ROW/OFFSITE)

48 hours BEFORE excavation
 1-(800)227-2600
 CALL Underground Service Alert

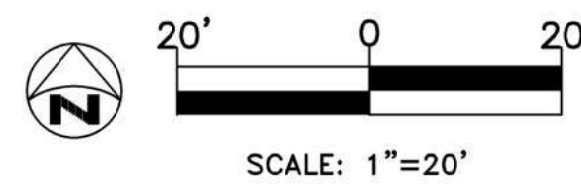
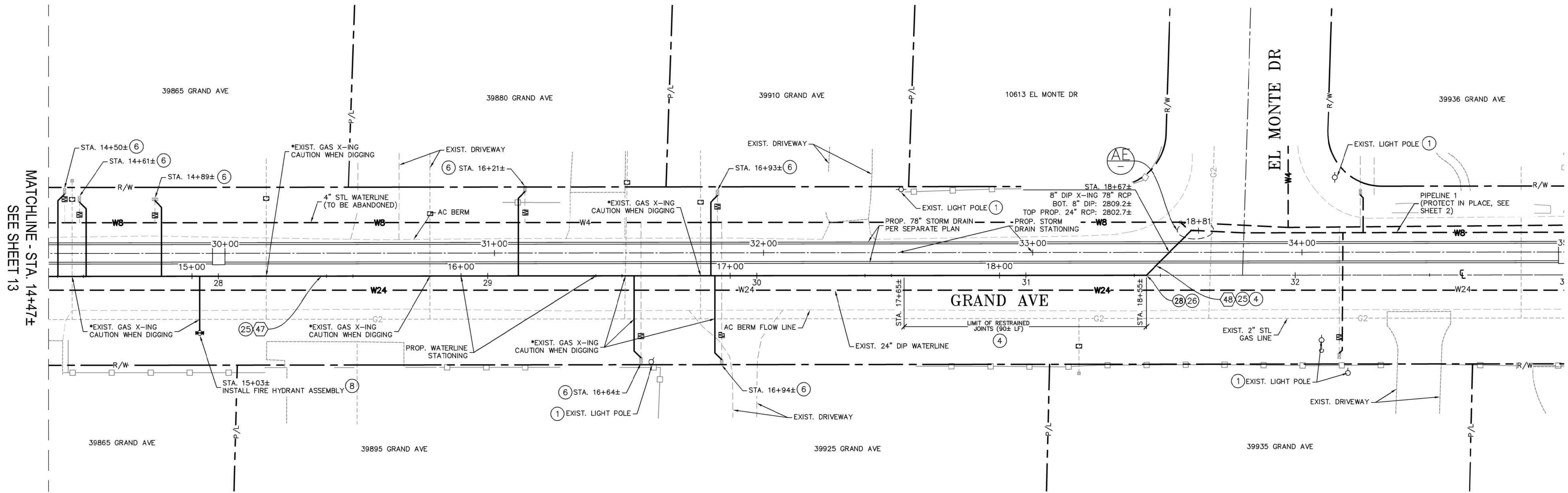
SYMBOL	REVISIONS	DATE	BY
▲	ADD SHEETS 7-14; DESIGN FOR PIPELINES 6A, 7, AND 8		
▲	ADD DESIGN FOR PIPELINE 6 WEST OF NOBLE STREET		

PRELIMINARY

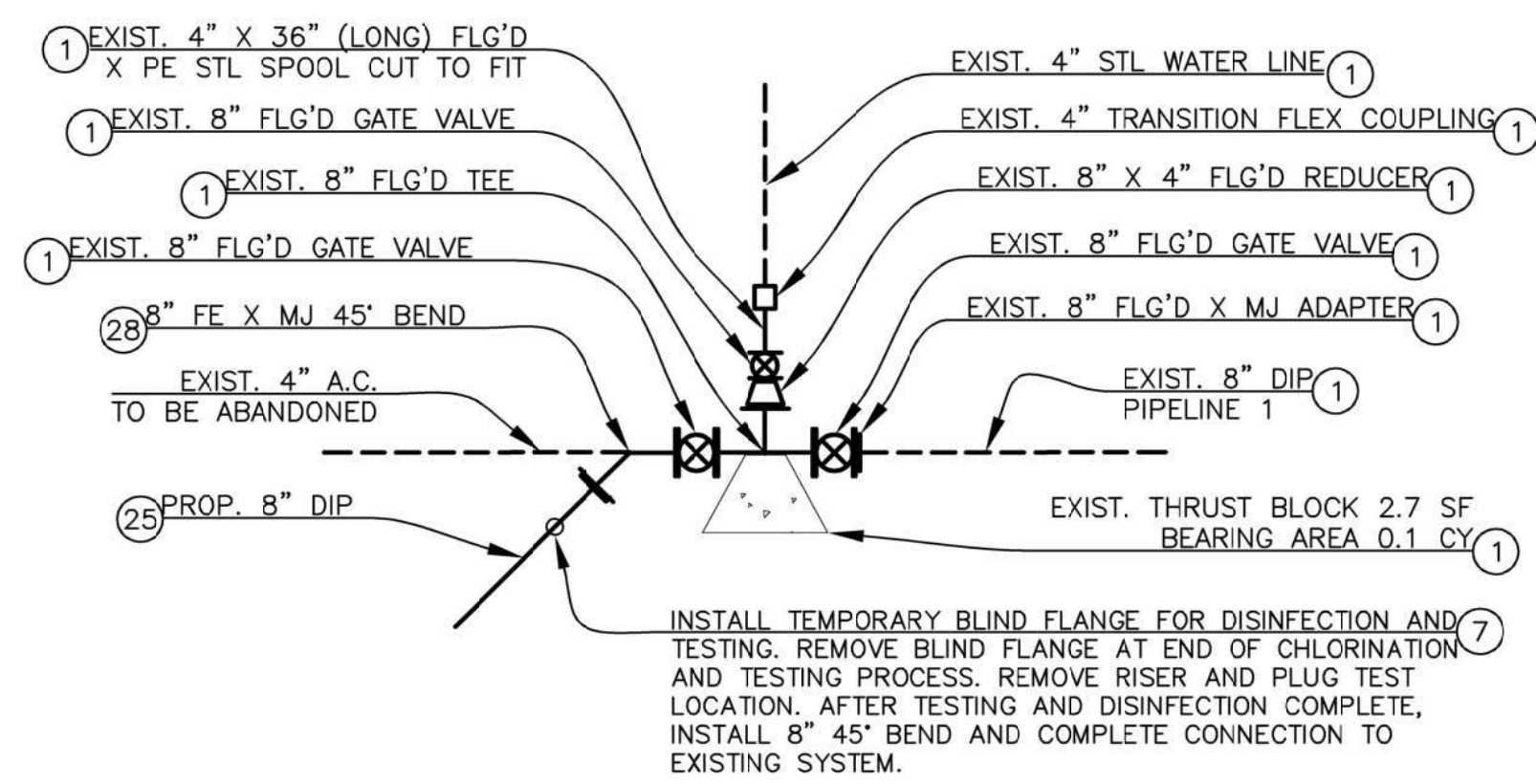
BEAUMONT-CHERRY VALLEY WATER DISTRICT
 560 Magnolia Ave. • Beaumont, CA. 92223 • 951-845-9581
 APPROVED BY _____ DATE _____
 REGISTERED ENGINEER No. _____

"FOR BIDDING PURPOSES ONLY" PZ 3040

SCALE AS NOTED	BCVWD PIPELINE RELOCATION PLAN PIPELINE 8: STA. 10+00 - STA. 14+47± (GRAND AVE STA.: 21+75± - STA.: 27+40±) (MDP LINE 16: STA. 24+00± - STA. 29+34±)	SHEET 13 OF 14 SHEETS
FIELD BOOK N/A		WO ### 2021-0007
DESIGN EJW		
DRAWN EJW		
CHECKED MRS		



WATERLINE LINE/CURVE DATA TABLE			
ID	BEARING/Delta	RADIUS	LENGTH (LF)
47	N 00° 00' 00" E	-	408±
48	N 45° 00' 00" E	-	23±



DETAIL "AE"
PROPOSED EL MONTE DRIVE TEE
 (WATERLINE STA. 18+81± = MDP LINE 16 STA. 33+62±)
 NOT TO SCALE

CONSTRUCTION NOTES AND QUANTITIES	
1	PROTECT IN PLACE
2	COMPLETE ALL TRENCH EXCAVATION, BACKFILL, AND PAVEMENT REPAIR PER BCVWD PLATE 6-1
3	ABANDON IN PLACE EXISTING PIPELINE AND PLUG SEVERED PIPE ENDS WITH 3" MINIMUM CLASS "C" CONCRETE PLUG (EACH END)
4	INSTALL RESTRAINED JOINTS (FIELD-LOK 350 GASKETS, MEGA LUGS (IF MECHANICAL JOINT) OR DISTRICT APPROVED EQUAL)
5	DISINFECT ALL POTABLE WATER SERVICE PIPING AND APPURTENANCES (PER AWWA STANDARD)
6	INSTALL DISTRICT FURNISHED 1" SERVICE SADDLE, CORPORATION STOP, AND SERVICE LATERAL PIPING PER BCVWD STANDARD PLATE 6-3. ONCE TESTING AND DISINFECTION IS COMPLETE, REMOVE EXISTING METER AND INSTALL NEW DISTRICT FURNISHED METER AND CONNECT TO NEW SERVICE LATERAL.
7	INSTALL NEW 2" RISER AND TEST PLATE FOR DISINFECTION AND TESTING. REMOVE TEST PLATE AT END OF CHLORINATION AND TESTING PROCESS. REMOVE RISER AND PLUG TEST LOCATION.
8	INSTALL FIRE HYDRANT ASSEMBLY PER BCVWD PLATE NO. 1
25	INSTALL 8" DIP PRESSURE CLASS 350 AND BEDDING PER BCVWD PLATE NO. 6-1
26	INSTALL 8" FLANGED END X MECHANICAL JOINT ADAPTER
28	INSTALL 8" FLANGED END X MECHANICAL JOINT 45 BEND

"FOR BIDDING PURPOSES ONLY" PZ 3040

RECORD COUNTY OVERSIGHT ENGINEER REGISTRATION # DATE SIGNED
 APPROVED AS TO COMPLIANCE WITH APPLICABLE COUNTY STANDARDS AND PRACTICES (TRANSPORTATION DEPARTMENT ONLY - ROW/OFFSITE)

48 hours BEFORE excavation
 1-(800)227-2600
 CALL Underground Service Alert

SYMBOL	REVISIONS	DATE	BY
▲	ADD SHEETS 7-14; DESIGN FOR PIPELINES 6A, 7, AND 8		
▲	ADD DESIGN FOR PIPELINE 6 WEST OF NOBLE STREET		

BEAUMONT-CHERRY VALLEY WATER DISTRICT
 560 Magnolia Ave. • Beaumont, CA. 92223 • 951-845-9581

APPROVED BY: _____ DATE: _____
 REGISTERED ENGINEER No. _____

SCALE AS NOTED	BCVWD PIPELINE RELOCATION PLAN PIPELINE 8: STA. 14+47 - STA. 18+81± (GRAND AVE STA.: 27+35± - STA.: 33+00±) (MDP LINE 16: STA. 29+34± - STA. 34+97±)	SHEET 14 OF 14 SHEETS WO ### 2021-0007
FIELD BOOK N/A		
DESIGN EJW		
DRAWN EJW		
CHECKED MBS		

PRELIMINARY

BEAUMONT-CHERRY VALLEY WATER DISTRICT

MDP LINE 16 WATER PIPELINE RELOCATION PROJECT

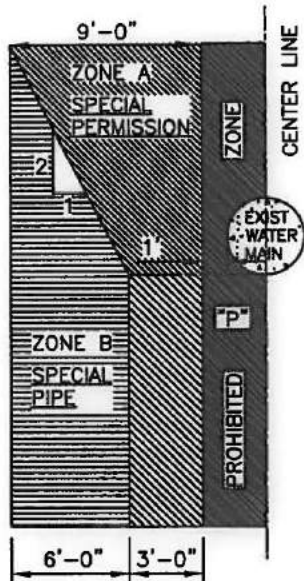
PIPELINE 6A – GRAND AVENUE EAST OF MARTIN LANE

PIPELINE 7 – P-3040-0027

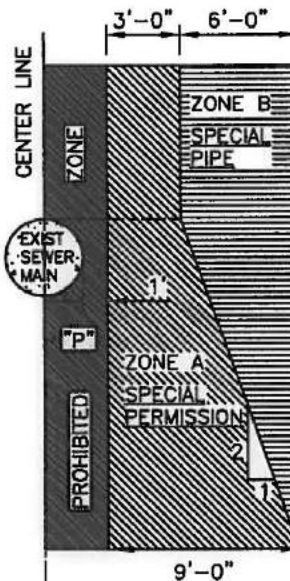
PIPELINE 8 – NOBLE STREET TO EL MONTE DRIVE

APPENDIX B

STANDARD DRAWINGS



NEW SEWER MAIN

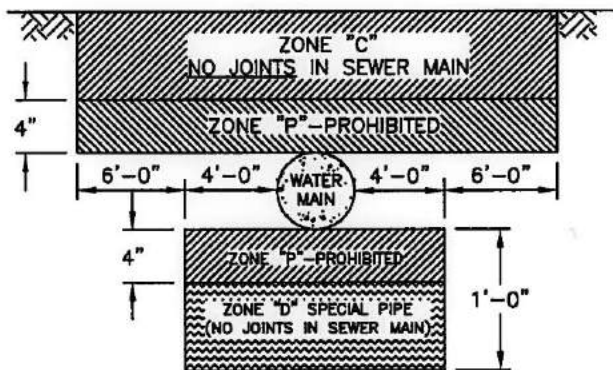


NEW WATER MAIN

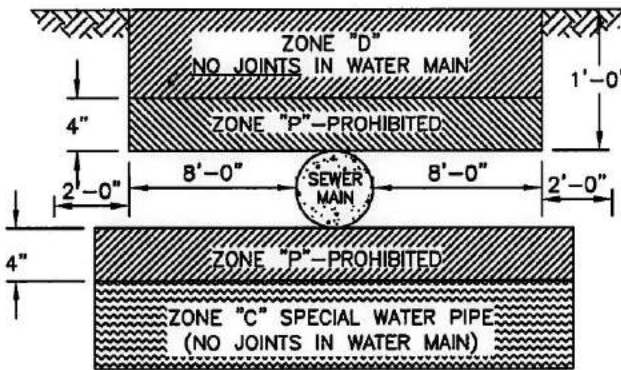
NOTE:

ZONES IDENTICAL ON EITHER SIDE OF CENTER LINES.
 ZONES "P" IS A PROHIBITED ZONE SECTION 64630 (e) (2) CALIFORNIA CODE OF REGULATIONS, TITLE 22 (CURRENT); OR SECTION 64572 (a) CALIFORNIA CODE OF REGULATIONS, TITLE 22 (PROPOSED).
 DIMENSIONS ARE FROM OUTSIDE OF WATER MAIN TO OUTSIDE OF SEWER.

PARALLEL CONSTRUCTION



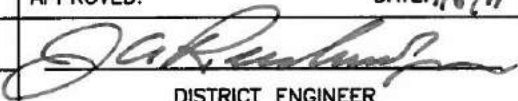
NEW SEWER MAIN



NEW WATER MAIN

CROSSINGS

NOT TO SCALE

REVISED	PREPARED BY: PARSONS	DATE: 08/06
03/10	APPROVED:	DATE: 1/6/11
 DISTRICT ENGINEER		

BEAUMONT CHERRY VALLEY WATER DISTRICT	
WATER-SEWER SEPARATION REQUIREMENTS	PLATE D4-1

BEAUMONT CHERRY VALLEY WATER DISTRICT

WATER - SEWER SEPARATION REQUIREMENTS

Appropriate alternative construction criteria for two different cases in which the regulatory criteria for sanitary sewer main and water main separation cannot be met are shown in District Standard Plate No. D4-1.


- Case 1 – New sanitary sewer main and a new or existing water main; alternative construction criteria apply to the sanitary sewer main.
- Case 2 – New water main and an existing sanitary sewer main; alternative construction criteria may apply to either or both the water main and sanitary sewer main.

Case 1: New Sanitary Sewer Main Installation

ZONE SPECIAL CONSTRUCTION REQUIRED FOR SEWER

- A. Sewer lines will not be permitted in this zone without prior written approval from the Health Department and Beaumont Cherry Valley Water District.
- B. If the water main does not meet the class 2 Zone B requirements given below, the sewer should be constructed of one of the following:
1. High-density-polyethylene (HDPE) pipe with fusion welded joints (per AWWA C906);
 2. Spirally-reinforced HDPE pipe with gasketed joints (per ASTM F-894);
 3. Extra strength vitrified clay pipe with compression joints;
 4. Class 4000, Type II, asbestos-cement pipe with rubber gasket joints;
 5. PVC sewer pipe with rubber ring joints (per ASTM D3034) or equivalent;
 6. Cast or ductile iron pipe with compression joints; or
 7. Reinforced concrete pressure pipe with compression joints (per AWWA C302).
- C. If the water main crossing below the sanitary sewer main does not meet the requirements for Case 2 Zone C, the sanitary sewer main should have no joints within ten feet from either side of the water main (in Zone C) and should be constructed of one of the following:
1. A continuous section of ductile iron pipe with hot dip bituminous coating; or
 2. One of the Zone D options 1, 3, 4, or 5 below.
- D. If the water main crossing above the sanitary sewer main does not meet the Case 2 Zone D requirements, the sanitary sewer main should have no joints within four feet from either side of the water main (in Zone D) and be constructed of one of the following:
1. HDPE pipe with fusion-welded joints (per AWWA C906)
 2. Ductile iron pipe with hot dip bituminous coating and mechanical joints (gasketed, bolter joints);
 3. A continuous section of Class 200 (DR 14 per AWWA C900) PVC pipe or equivalent, centered over the pipe being crossed; or
 4. A continuous section of reinforced concrete pressure pipe (per AWWA C302) centered over the pipe being crossed; or
 5. Any sanitary sewer main within a continuous sleeve.

NOT TO SCALE

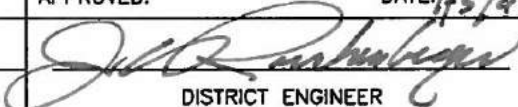
REVISED	PREPARED BY: PARSONS	DATE: 08/06	BEAUMONT CHERRY VALLEY WATER DISTRICT	
12/10	APPROVED:	DATE: 1/5/11	WATER-SEWER SEPARATION REQUIREMENTS	
			PLATE D4-2	
	DISTRICT ENGINEER			

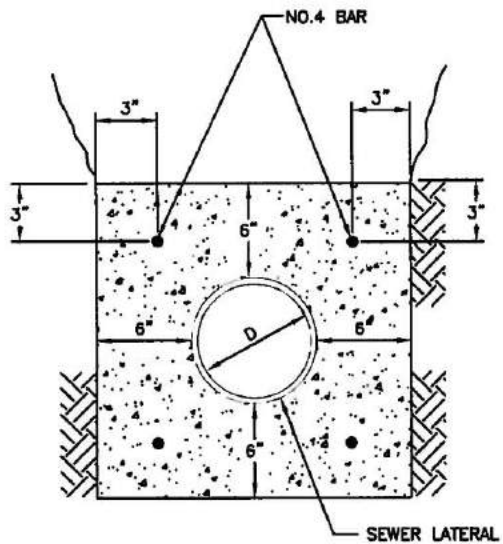
Case 2: Special Construction Required for Water Main

ZONE SPECIAL CONSTRUCTION REQUIRED FOR SEWER

- A. No water mains shall be constructed without prior written authorization from the Health Department.
- B. If the sewer does not meet the Case 1 Zone B requirements given above, the water main shall be constructed of one of the following:
 - 1. Ductile iron pipe with hot dip bituminous coating.
 - 2. Dipped and wrapped one-fourth-inch-thick welded steel pipe.
- C. If the sewer crossing above the water main does not meet the Class 1 Zone C requirements given above, the water main should have no joints within ten feet from either side of the sewer main (in Zone C) and be constructed of one of the following:
 - Ductile iron pipe with hot dip bituminous coating.
 - Dipped and wrapped one-fourth-inch-thick welded steel pipe.
- D. If the sanitary sewer main crossing below the water main does not meet the requirements for Case 1 Zone D, the water main should have no joints within eight feet from either side of the sanitary sewer main (in Zone D) and should be constructed as for Zone C.

NOT TO SCALE

REVIS	PREPARED BY: PARSONS	DATE: 08/06	BEAUMONT CHERRY VALLEY WATER DISTRICT	
12/10	APPROVED:	DATE: 1/5/11		
			WATER-SEWER SEPARATION REQUIREMENTS	PLATE D4-3
	DISTRICT ENGINEER			




HOUSE LATERALS:

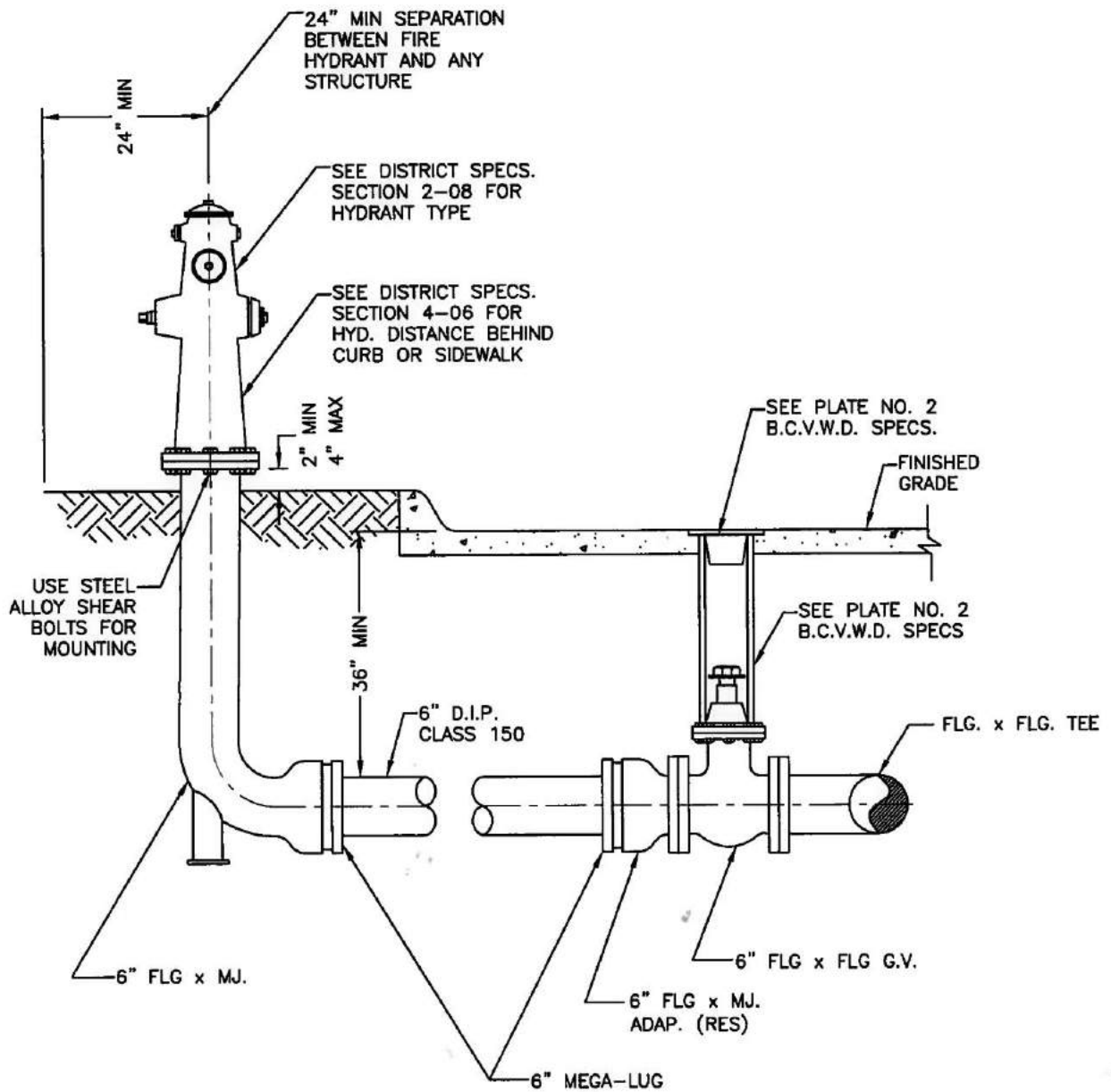
THE SPECIAL CONSTRUCTION REQUIREMENTS SHALL APPLY TO SEWER HOUSE LATERALS THAT CROSS ABOVE A WATER MAIN, BUT NOT TO THOSE SEWER HOUSE LATERALS THAT CROSS BELOW A WATER MAIN.

CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.

CONCRETE ENCASEMENT SHALL EXTEND 10' BEYOND WATER SERVICE ON BOTH SIDES.

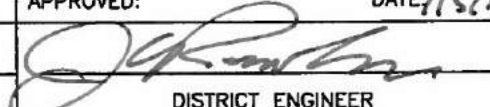
NOT TO SCALE

REVISED	PREPARED BY: PARSONS	DATE: 08/06	BEAUMONT CHERRY VALLEY WATER DISTRICT	
12/10	APPROVED:	DATE: 1/5/11		
	 DISTRICT ENGINEER		HOUSE WATER AND SEWER LATERAL CROSSINGS	PLATE D4-4

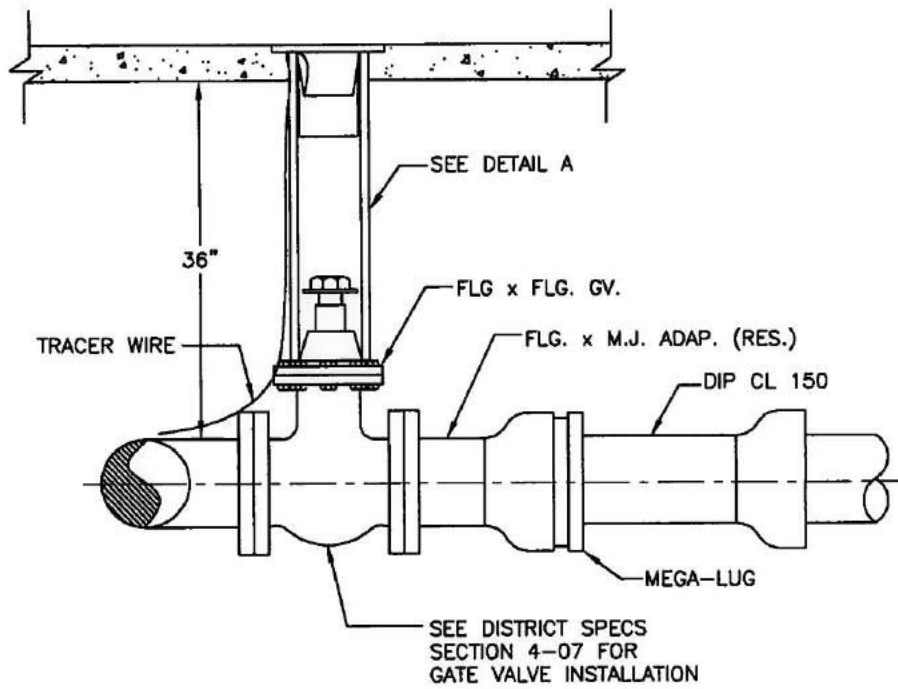


NOTE:
SHEAR BOLTS SHALL BE USED EVEN IF BREAK AWAY SPOOLS ARE USED ON TOP OF BURY.

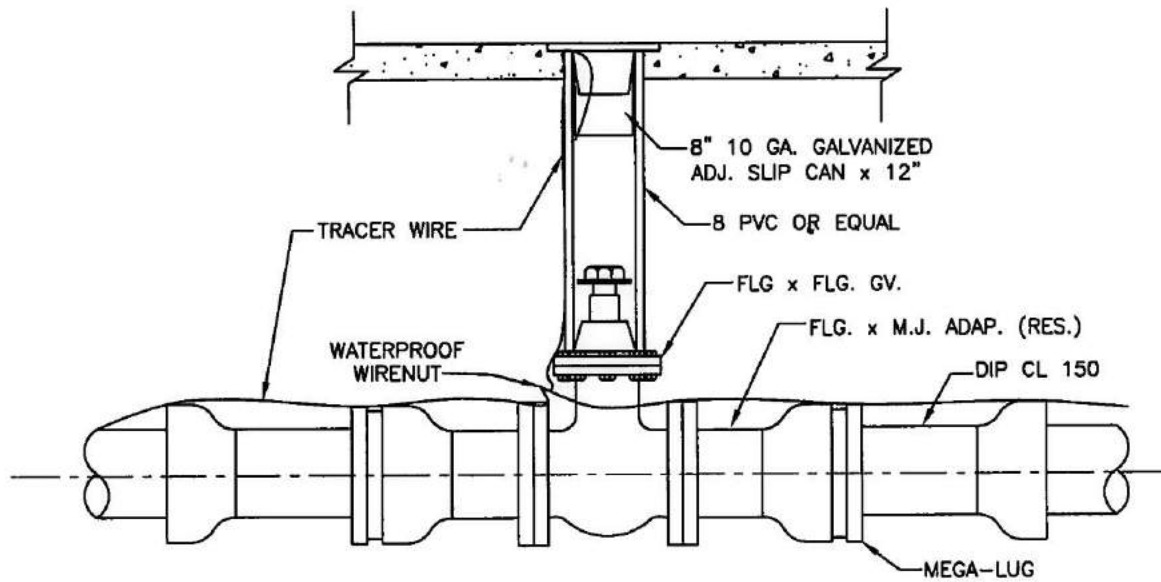
NOT TO SCALE

REVISED	PREPARED BY: PARSONS	DATE: 08/06	BEAUMONT CHERRY VALLEY WATER DISTRICT	
12/10	APPROVED:	DATE: 1/2/11		
	 DISTRICT ENGINEER		STANDARD FIRE HYDRANT	PLATE 1

FILE: X:\BCVWD_Projects\District_Projects\Standards\Plates

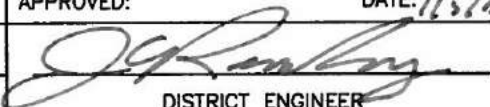


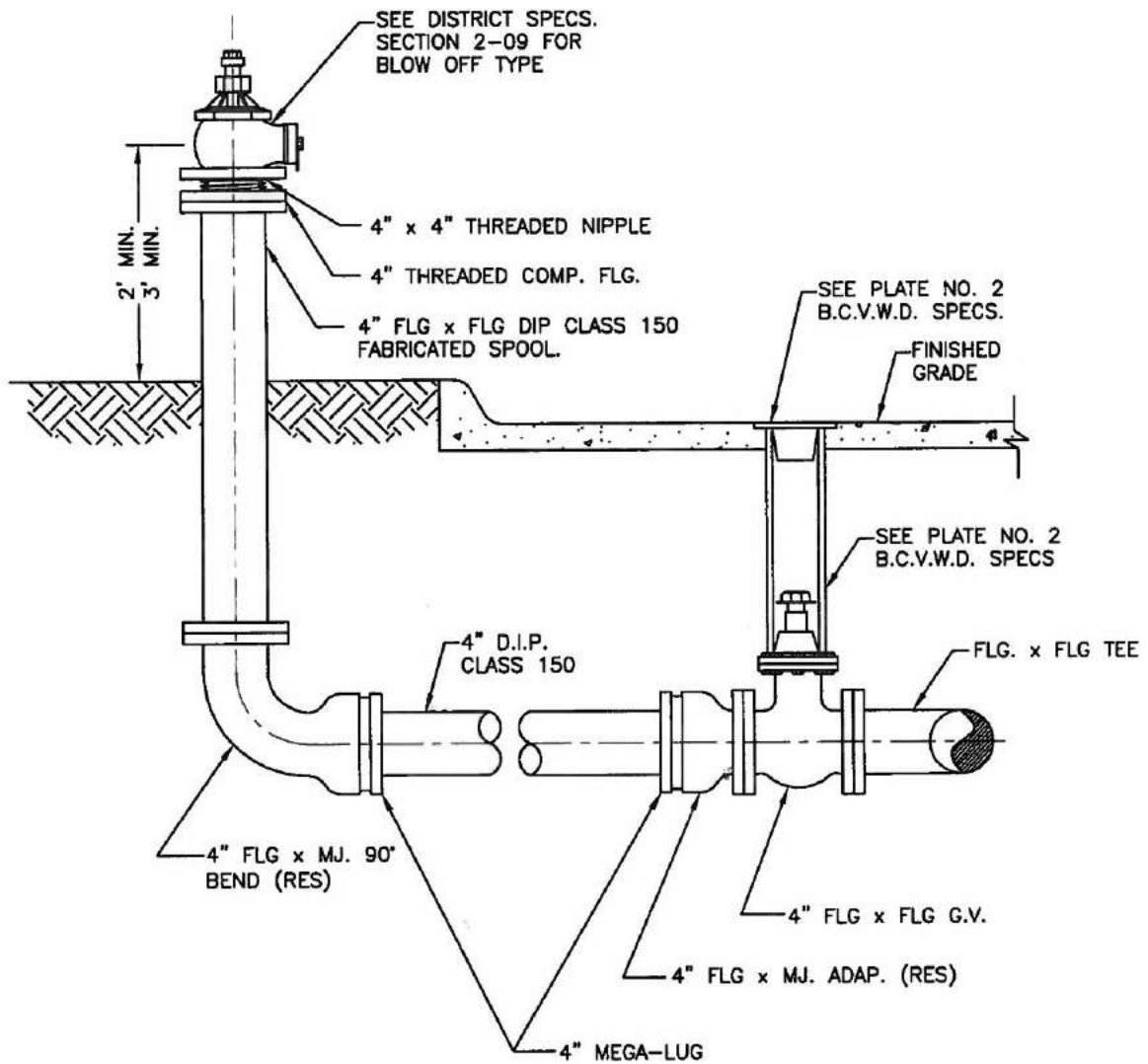
DETAIL B-(LATERAL VALVE)



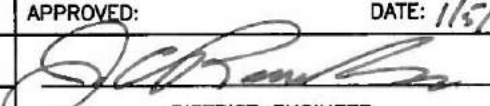
DETAIL-A (IN LINE VALVE)

NOT TO SCALE

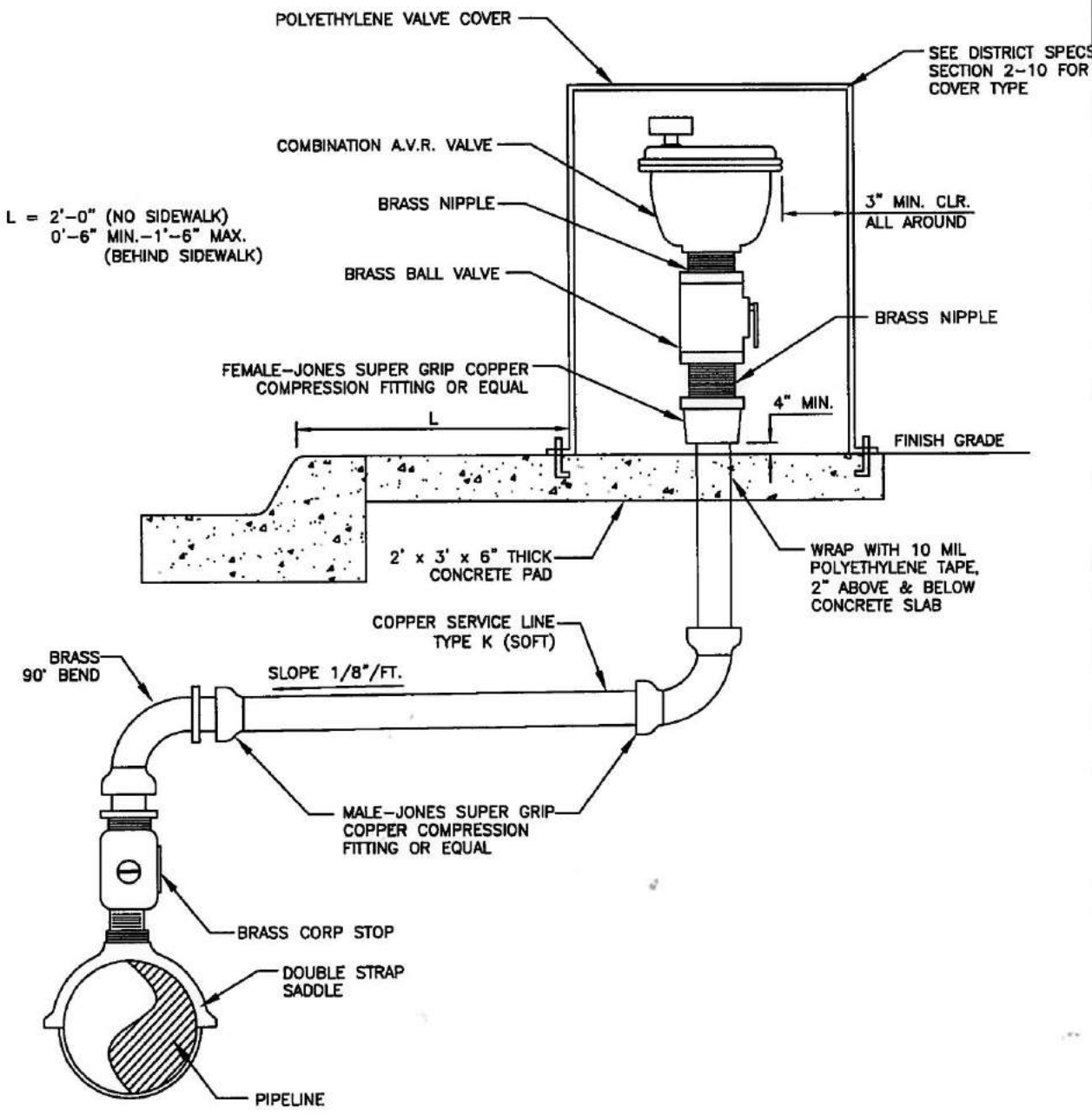
REVISED	PREPARED BY: PARSONS	DATE: 08/06	BEAUMONT CHERRY VALLEY WATER DISTRICT	
12/10	APPROVED:	DATE: 11/5/10		
	 DISTRICT ENGINEER		GATE VALVE/VALVE CAN INSTALLATION	PLATE 2



NOT TO SCALE

REVISED	PREPARED BY: PARSONS	DATE: 08/06	BEAUMONT CHERRY VALLEY WATER DISTRICT	
12/10	APPROVED:	DATE: 1/5/11		
 DISTRICT ENGINEER			4-INCH BLOWOFF DETAIL	PLATE 3-1

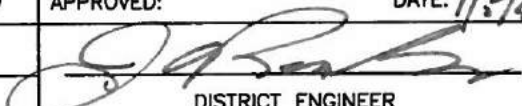
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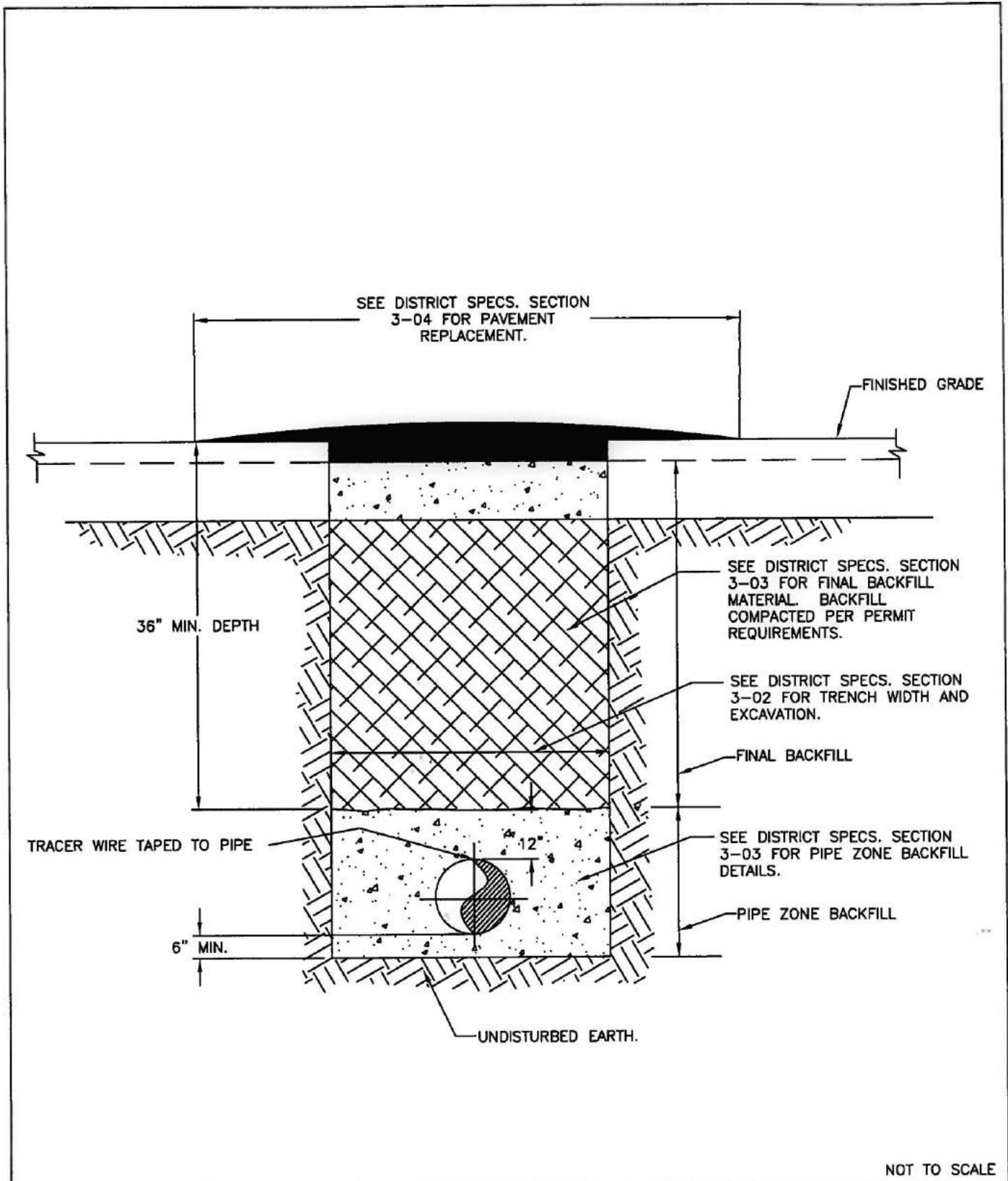


L = 2'-0" (NO SIDEWALK)
 0'-6" MIN.-1'-6" MAX.
 (BEHIND SIDEWALK)


NOTE:
 COLOR SHALL BE DETERMINED BY THE DISTRICT.

NOT TO SCALE

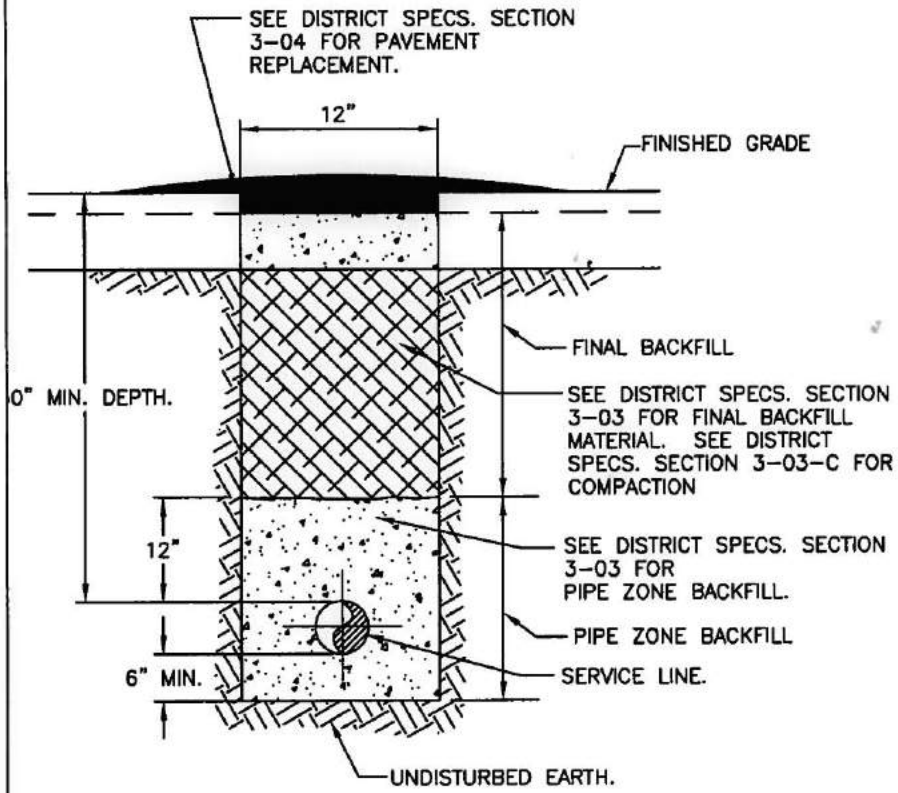
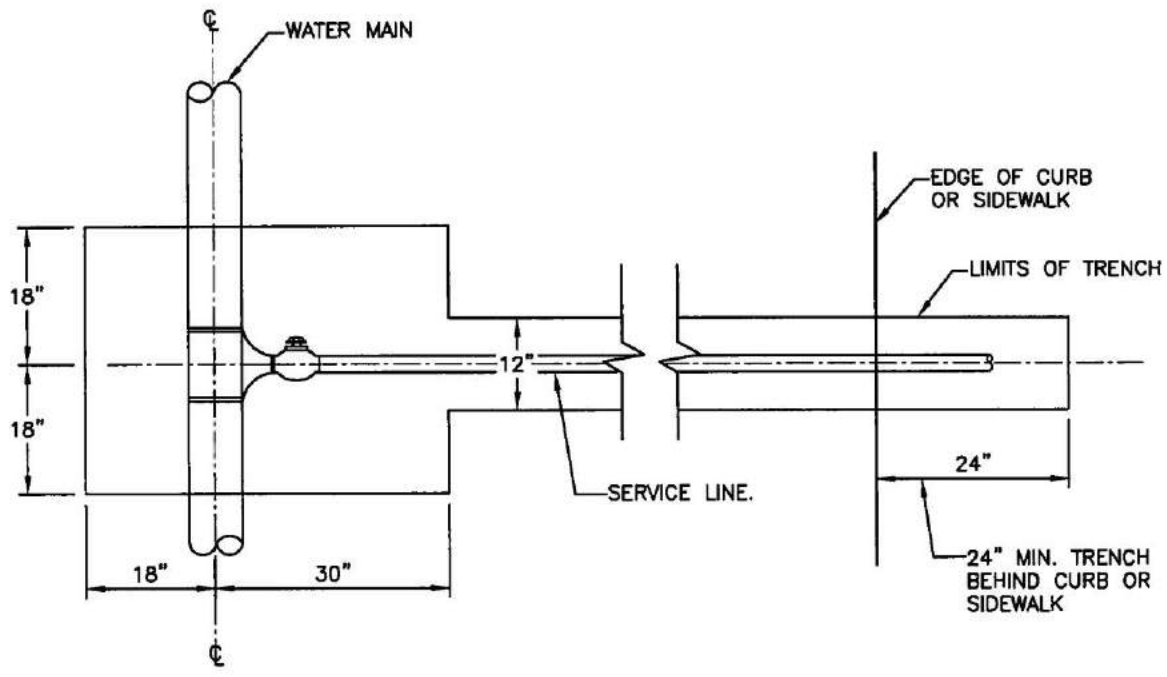
REVISED	PREPARED BY: PARSONS	DATE: 08/06	BEAUMONT CHERRY VALLEY WATER DISTRICT	
12/10	APPROVED:	DATE: 11/5/14		
 DISTRICT ENGINEER			2" COMBINATION AIR-VAC ASSEMBLY DETAIL	PLATE 5-1



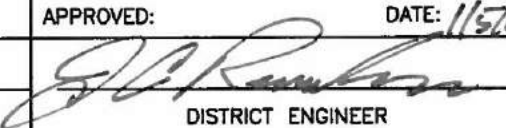
NOT TO SCALE

REVISED	PREPARED BY: PARSONS	DATE: 08/06	BEAUMONT CHERRY VALLEY WATER DISTRICT	
12/10	APPROVED:	DATE: 1/5/11		
 DISTRICT ENGINEER			TRENCH DETAIL	PLATE 6-1

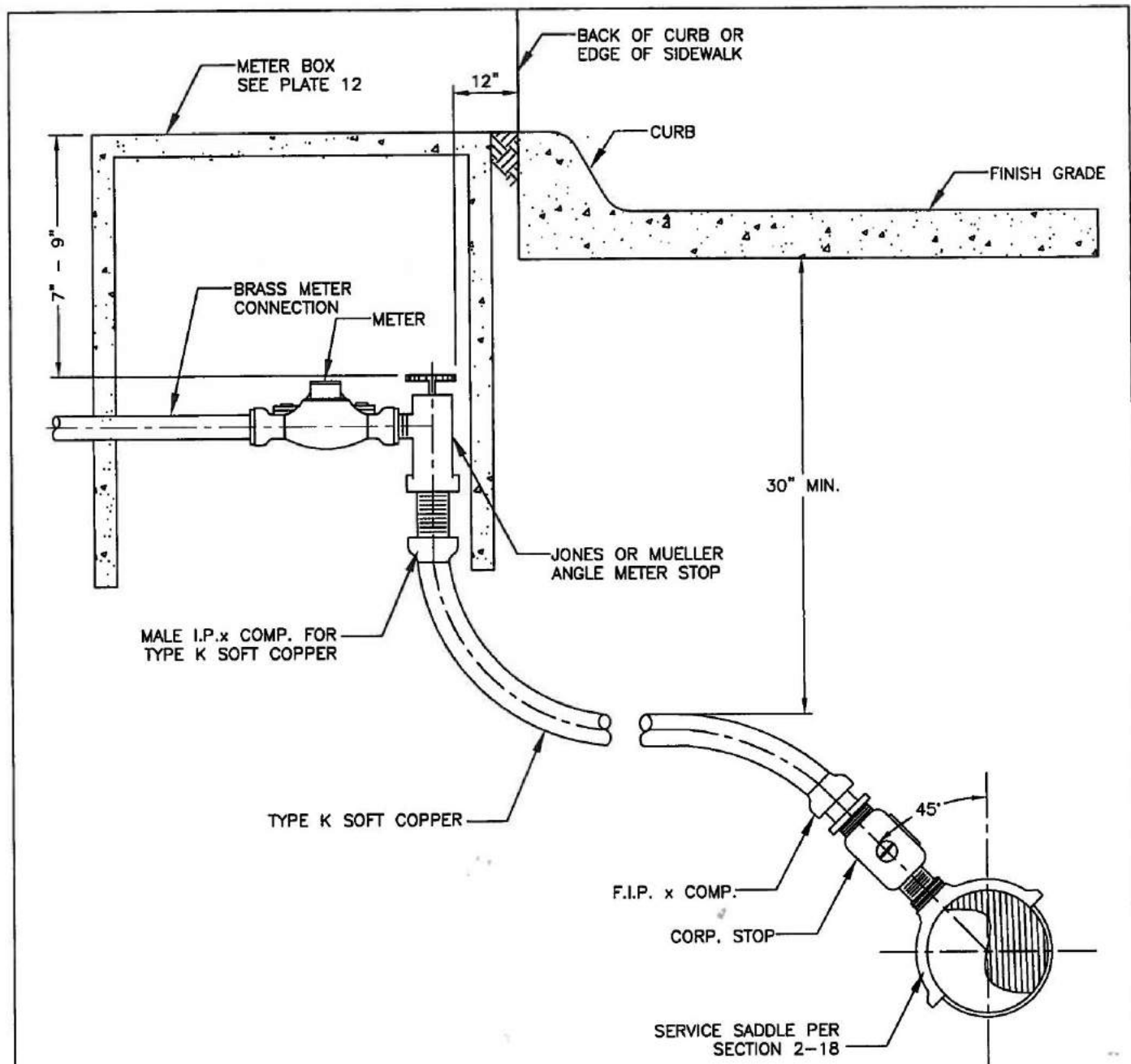
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NOT TO SCALE

REVISD	PREPARED BY: PARSONS	DATE: 08/06	BEAUMONT CHERRY VALLEY WATER DISTRICT	
12/10	APPROVED:	DATE: 11/5/11		
 DISTRICT ENGINEER			SERVICE TRENCH DETAIL	PLATE 6-2

FILE: X:\BCVWD_Projects\District_Projects\Standards\Plates



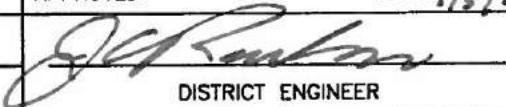
NOTES:

NO INTERMEDIATE COUPLINGS ARE ALLOWED BETWEEN CORPORATION STOP AND ANGLE METER STOP.

MINIMUM SPACING BETWEEN ANY 2 ADJACENT SADDLES ON THE MAIN LINE SHALL BE 18".

SERVICE LINE SHALL BE FREE OF KINKS AND COUPLINGS. ALL SERVICES WITH KINKS OR COUPLINGS SHALL BE REMOVED FROM CORPORATION STOP AT THE MAIN.

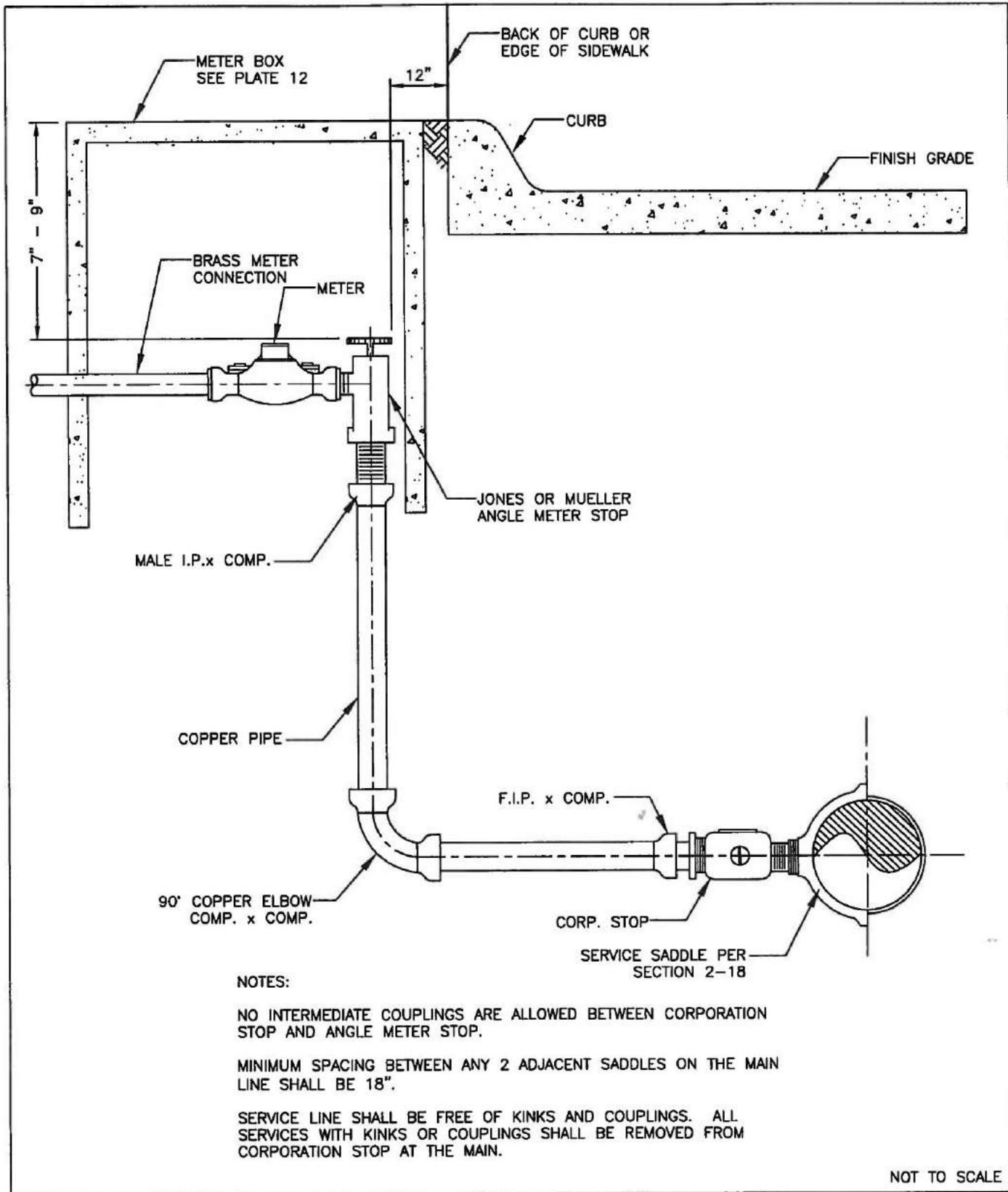
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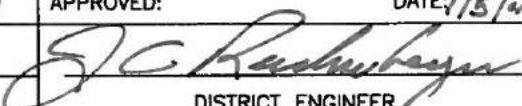
REVISED	PREPARED BY: PARSONS	DATE: 08/06
12/10	APPROVED:	DATE: 1/5/11
 DISTRICT ENGINEER		

BEAUMONT CHERRY VALLEY
WATER DISTRICT

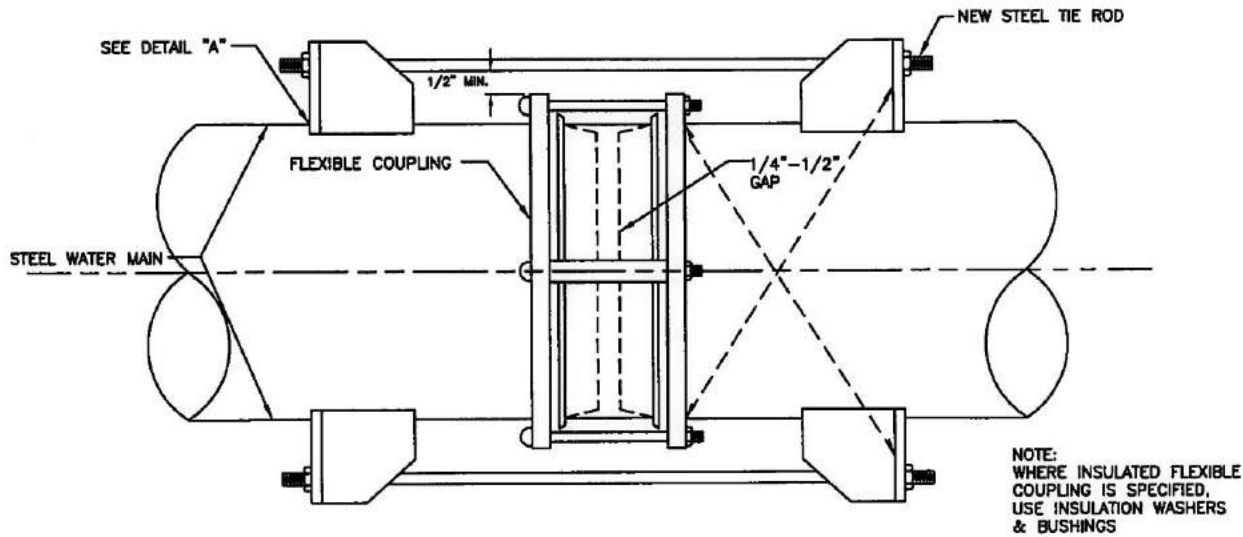
1" SERVICE LINE DETAIL

PLATE
6-3

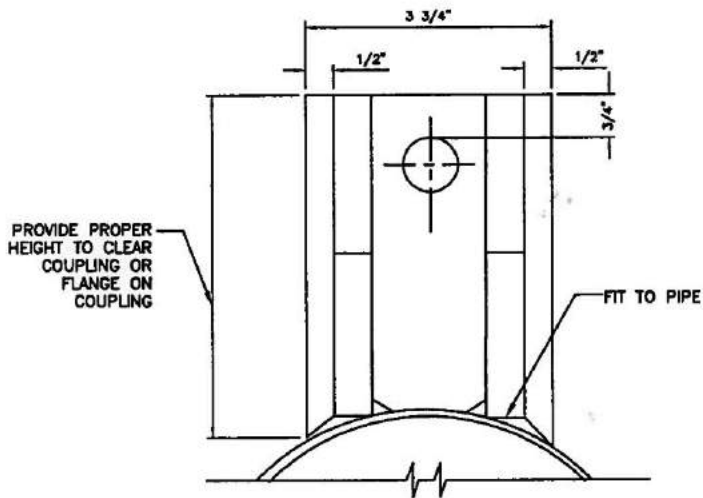


REVISED	PREPARED BY: PARSONS	DATE: 08/06	BEAUMONT CHERRY VALLEY WATER DISTRICT	
12/10	APPROVED:	DATE: 1/5/11		
 DISTRICT ENGINEER			2" SERVICE LINE DETAIL	PLATE 6-4

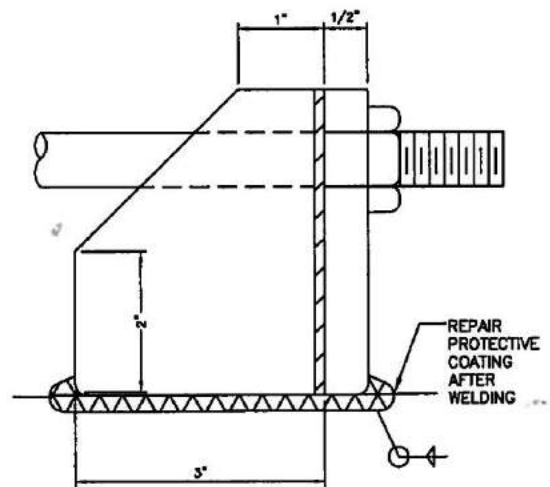
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PLAN VIEW

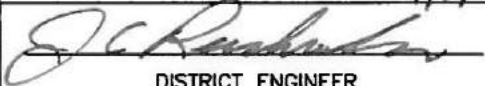


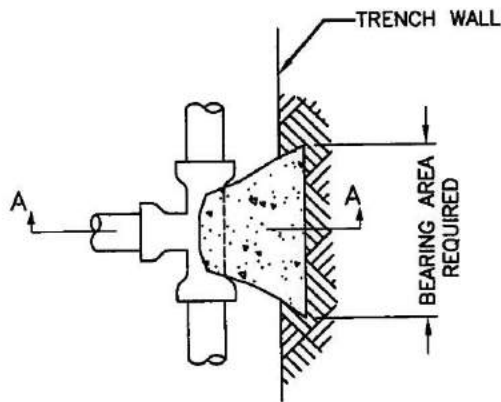
DETAIL "A"



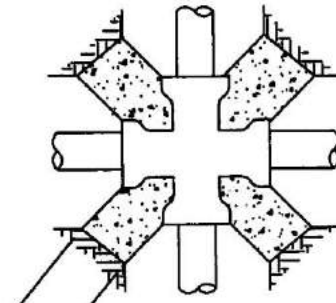
- NOTE:
1. INSTALL TIES ALONG THE HORIZONTAL AXIS OF PIPELINE.
 2. CONTRACTOR TO FURNISH COAL TAR ENAMEL AND PAINT ALL EXPOSED SURFACES.
 3. HARNESS LUG DESIGN SHALL BE PER AWWA M-11.

NOT TO SCALE

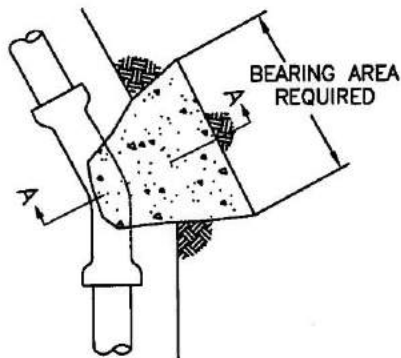
REVISED	PREPARED BY: PARSONS	DATE: 08/06	BEAUMONT CHERRY VALLEY WATER DISTRICT	
12/10	APPROVED:	DATE: 11/5/11		
	 DISTRICT ENGINEER		FLEXIBLE COUPLING TIE DETAILS	PLATE 9



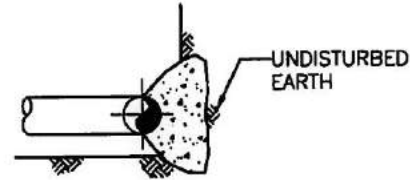
TEE



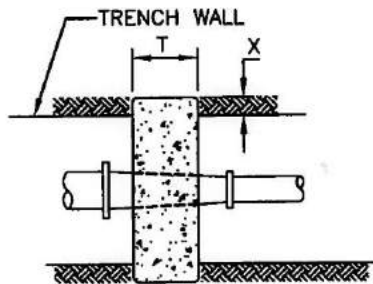
CROSS



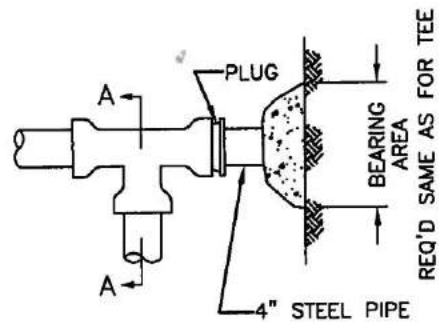
HORIZONTAL ELBOW



SECTION A




REDUCER



TEE WITH PLUG

NOTE:
FOR THRUST BLOCK SIZES SEE PLATE NO. 11-2.

NOT TO SCALE

REVISED	PREPARED BY: PARSONS	DATE: 08/06
12/10	APPROVED:	DATE: 11/24/04
 DISTRICT ENGINEER		

BEAUMONT CHERRY VALLEY
WATER DISTRICT

THRUST BLOCK DETAILS

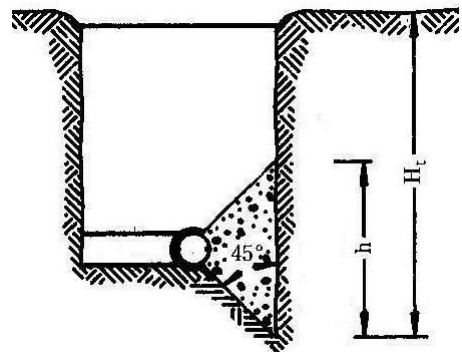
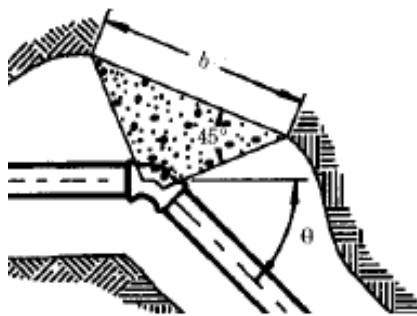
PLATE
11-1

**Beaumont Cherry Valley Water District
THRUST BLOCK SIZE FOR
HORIZONTAL PRESSURES
(BASED ON 2500 LB/SQ.FT. BEARING PRESSURE)**

PIPE DIA	PIPE CLASS	PRES psi	Area in Square Feet				
			Tee	90° Bend	45° Bend	22½° Bend	11¼° Bend
6	150	150	3.4	4.8	2.6	1.3	0.7
		225	5.0	7.1	3.9	2.0	1.0
8	150	150	5.8	8.2	4.4	2.3	1.1
		225	7.7	10.9	5.9	3.0	1.5
10	150	150	8.7	12.3	6.7	3.4	1.7
		225	13.1	18.5	10.0	5.1	2.6
12	150	150	12.3	17.4	9.4	4.8	2.4
		225	18.5	26.1	14.1	7.2	3.6
14	150	150	16.5	23.4	12.7	6.5	3.2
		225	24.8	35.1	19.0	9.7	4.9

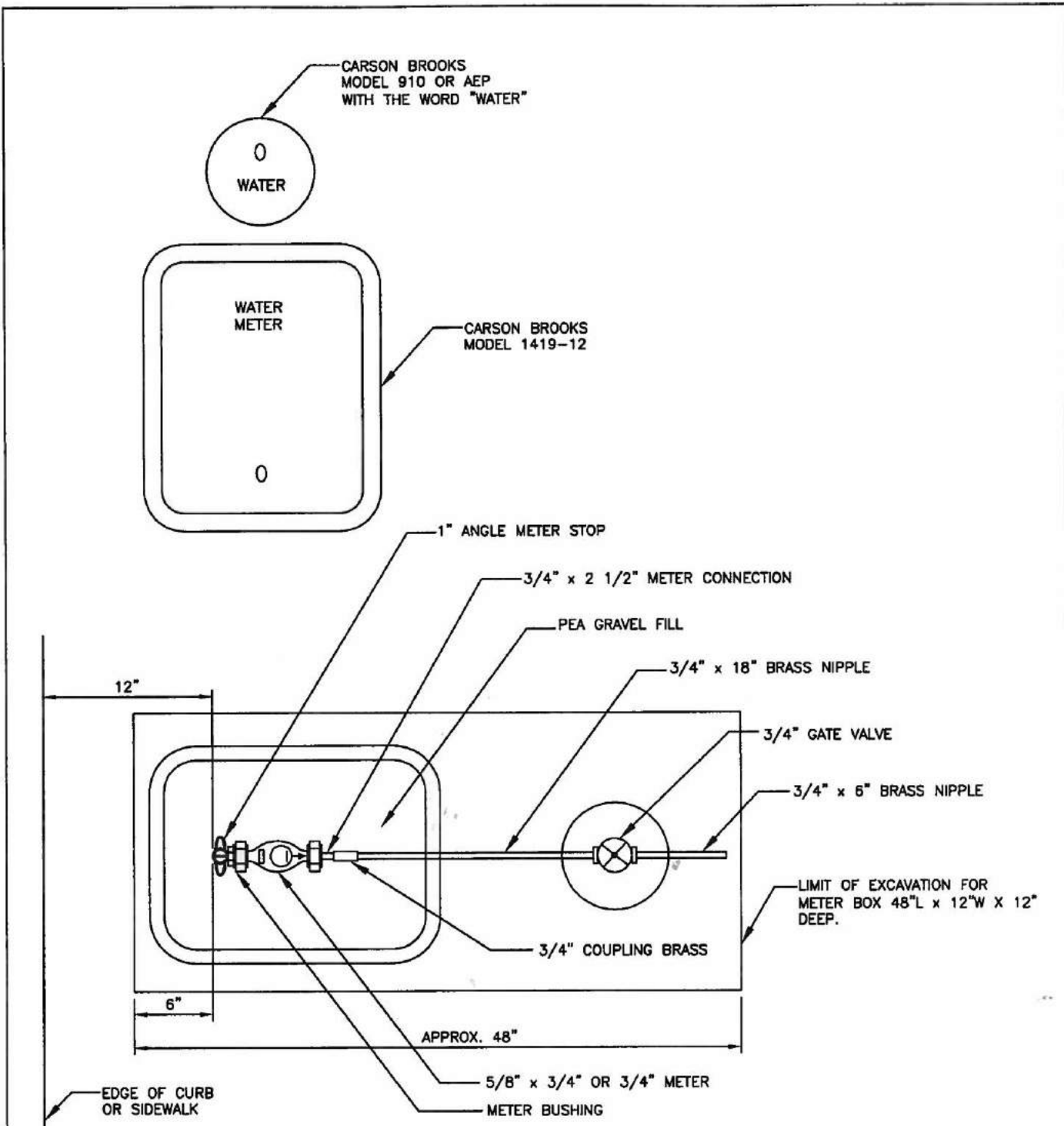
REDUCERS

Reducer Size	Pipe Class	Pressure (psi)	Dimensions		
			b	h	t
8 X 6	150	150	14"	2' - 2"	12"
		225	18"	2' - 6"	12"
10 X 8	150	150	16"	2' - 4"	12"
		225	20"	2' - 10"	12"
12 X 10	150	150	18"	2 - 6"	12"
		225	20"	3' - 4"	12"
14 X 12	150	150	18"	2 - 10"	12"
		225	22"	3' - 6"	12"



General criteria for bearing block design:

1. Bearing surface should, where possible, be placed against undisturbed soil. Where it is not possible, the fill between the bearing surface and undisturbed soil must be compacted to at least 90% Standard Proctor density.
2. Block height (h) should be equal to or less than one-half the total depth to the bottom of the block, (H_T), but not less than the pipe diameter (D).
3. Block height (h) should be chosen such that the calculated block width (b) varies between one and two times the height.
4. For bearing capacities less than 2500 LB/SQ.FT. a proportional increase in bearing area will be required. Provide supporting geotechnical report.



NOTE:
 5/8" x 3/4" & 3/4" METER INSTALLATIONS FOR THIS SIZE BOX ONLY.
 LARGER METERS 1" 1220-12, 1 1/2" & 2" 1730-12 BOXES.

NOT TO SCALE

REVISD	PREPARED BY: PARSONS	DATE: 08/06	BEAUMONT CHERRY VALLEY WATER DISTRICT	
12/10	APPROVED:	DATE: 1/5/11		
	<i>J.C. Reuther</i>		METER BOX INSTALLATION	PLATE 12
	DISTRICT ENGINEER			

BEAUMONT-CHERRY VALLEY WATER DISTRICT

2017 WATER PIPELINE REPLACEMENT PROJECT

PIPELINE 1 – P-3620-0012

BASIC/TECHNICAL SPECIFICATIONS

SECTION 01000
GENERAL REQUIREMENTS

1. Definitions

Whenever the terms herein defined occur in these Specifications or other related documents, they shall have the meanings here given.

- a. "District" or "Owner" shall mean the BEAUMONT-CHERRY VALLEY WATER DISTRICT 560 Magnolia Avenue, Beaumont, CA 92223, its Manager, and any other person or persons designated by the Owner to act on its behalf.
- b. "Manager" shall mean the person designated by the Board of Directors of the BEAUMONT-CHERRY VALLEY WATER DISTRICT to have charge, supervision, and administration of said Owner.
- c. "Contractor" shall mean the person, firm, or corporation responsible for the construction of facilities and improvements or any portions thereof to be integrated into Owner's facilities, either on behalf of the Owner or on behalf of a Developer.

Contractor shall at all times be represented on the Work in person or by a duly designated agent or superintendent. Contractor shall hold a valid Contractor's License in accordance with the provisions of Division 3, Chapter 9 of the Business and Professions Code of the State of California, and any amendments thereto.

- d. "Work" shall mean all Work to be performed by Contractor and shall be as specified by these Specifications and the Construction Drawings, Special Requirements, and Specific Directions for any particular project.

The Owner may at any time during Work, by written order, make such changes as found necessary in the character, quality, or quantity of the Work to be furnished.

- e. "Construction Drawings" shall mean those drawings approved by the Owner showing dimensions, details, features, and requirements of the Work. Said Construction Drawings shall be used in conjunction with Special Requirements or Specific Directions and shall be augmented by these Specifications and the Standard Drawings.
- f. "Special Requirements" shall mean those requirements describing Work not specified by Construction Drawings or Specific Directions, clarifying Work as shown by Construction Drawings or as described by Specific Directions, or supplementing or modifying these Specifications. Said requirements may be written or verbal.
- g. "Specific Directions" shall mean those instructions of the Owner supplementing or modifying the Construction Drawings, Special Requirements, and Specifications and shall include all Work not specified by Construction Drawings or Special Requirements. Said instructions may be written or verbal.
- h. "Specifications", also "Construction Specifications", shall mean the requirements contained herein and shall apply to all Work, where applicable, unless specified otherwise, in the Construction Drawings, Special Requirements, or Specific Directions. Said Specifications shall augment Construction Drawings, Special Requirements, or Specific Directions and shall pertain to all methods and materials of construction.
- i. "Standard Drawings" shall mean all drawings referenced as such and bound with the Specifications. Said Standard Drawings shall be considered an integral part of the Specifications.

- j. "Standard Specifications" shall mean the Standard Specifications for Public Works Construction, latest edition, as published by Building News, Inc, Los Angeles, California. The Standard Specifications shall augment, not supersede, the "Construction Specifications". As used herein, the Standard Specifications shall not apply to measurement, payment, schedule, delays, or extra work.

2. **Abbreviations**

Whenever used in these Specifications, the following abbreviations shall refer to the agency shown:

a.	AASHTO	American Association of State Highway and Transportation Officials
b.	ACI	American Concrete Institute
c.	AISC	American Institute of Steel Construction
d.	ANSI	American Iron and Steel Institute
e.	ANSI	American National Standards Institute
f.	API	American Petroleum Institute
g.	ASTM	American Society for Testing Materials
h.	AWWA	American Water Works Association
i.	AWS	American Welding Society
j.	CRSI	Concrete Reinforcement and Steel Institute
k.	DIPRA	Ductile Iron Pipe Research Institute
l.	EIA	Electronic Industries Association
m.	IEEE	Institute of Electrical and Electronic Engineers
n.	IPCEA	Insulated Power Cable Engineers' Association
o.	NBFU	National Board of Fire Underwriters
p.	NEC	National Electrical Code
q.	NEMA	National Electrical Manufacturing Association
r.	REA	Rural Electrification Administration
s.	SSPC	Steel Structures Painting Council
t.	UL	Underwriters' Laboratories

All references to Specifications of any of the above agencies shall mean the latest editions thereof.

3. **Permits, Certificates, Laws, and Ordinances**

Unless specified otherwise, Contractor shall at no cost to the Owner obtain all necessary permits, certificates, and licenses from such Federal, State, and local agencies as required to perform the Work. Contractor shall comply with all laws, ordinances, or rules and regulations of said agencies in performance of the Work.

4. **Contractor's Liability**

Contractor shall be responsible, and the Owner shall not be answerable or accountable in any manner, for any loss or damage that may happen to the Work performed by Contractor, subcontractors, or those associated with or working under Contractor, or for any of materials or equipment used or employed in performing the Work, or for injury to any person or persons, including employees, the public, or others, or for damage to property from any cause which might have been prevented by Contractor, subcontractors, or those associated with or working under Contractor. Contractor having control over such Work must properly guard and does indemnify and hold the Owner harmless, and will defend the Owner therefrom at Contractor's own expense, against all injuries or damages to persons and property.

Contractor shall indemnify, defend, and hold the Owner harmless from any and all claims, demands, fines, and penalties imposed or levied by any Federal, State, or local agency associated with or related to the taking (as defined by the United States Fish and Wildlife Service and, or the California Department of Fish and Game) of any protected animal or plant species or habitat by Contractor, subcontractors, or those associated with or working under Contractor.

5. Interferences

Any and all crossings of public utility facilities such as water mains, sewer lines, gas lines, electrical or control cables and/or conduits, telephone and/or telegraph cables and/or conduits shall be made by Contractor in accordance with requirements and Specifications of appropriate agencies. Contractor shall obtain any necessary permits, licenses, and/or agreements required by said agencies.

Whenever facilities are encountered by Contractor, he shall ascertain the ownership thereof and shall make all necessary arrangements with the owners for the protection, removal, relocation, and/or replacement thereof. Contractor shall give the owners due notice of his requirements and shall give them convenient access and cooperate with them in every way while any work of removal and/or replacement is being performed.

6. Sanitation

All parts of the Work shall be maintained in a neat, clean, sanitary condition. A portable toilet, inaccessible to insects, shall be provided by the Contractor wherever needed for use by the Contractor's employees and said toilet's use shall be strictly enforced. All waste and refuse from sanitary facilities shall be disposed of by the Contractor. All waste and refuse from any source related to Contractor's operations shall be disposed of in a sanitary manner satisfactory to the Owner and in accordance with laws and regulations pertaining thereto. Contractor shall rigorously prohibit and prevent committing of nuisance within the Work area or upon the Owner's right-of-way or adjacent private property.

7. Accident Prevention and First Aid

Contractor shall provide a safe working environment for all persons working on or affected by the Work. Contractor shall take precautions for the protection of persons and property at all times during the course of the Work. Contractor shall exercise and observe the safety provisions of applicable laws and building and construction codes. Contractor shall maintain in good and safe operating condition all equipment and facilities required for proper execution and inspection of the Work.

Contractor shall guard machinery, equipment, and hazards in accordance with safety provisions of the Manual of Accident Prevention in Construction, published by the Associated General Contractors of America, the Construction Safety Orders and Trench Construction Safety Orders as issued by the Division of Industrial Safety of the Department of Industrial relations of the State of California, and Chapter 8 ("Traffic Control and Protection of Workmen") of the Manual of Instruction for the Maintenance Department of the State of California Department of Transportation, to the extent that such provisions are not inconsistent with applicable laws or regulations.

All warning signs, lights, barricades, and other measures designed to protect the traveling public shall be erected and maintained in good order by Contractor in accordance with applicable provisions of Chapter 21 ("Maintenance Signs, Barricades, and Traffic Control") of the Manual of Instruction for the Maintenance Department of the State of California Department of Transportation and of the applicable ordinances of the public agency having jurisdiction over the maintenance and policing of highways, thoroughfares, and streets. Special regard shall be given to the rights and convenience of the traveling public and the property owners and residents in the area of Work. Cross-over boards or steel plates approved by the Owner shall be placed and other precautions taken whenever necessary to provide for at least one-way traffic along all traveled streets and to provide access to driveways and residences, unless specified otherwise.

8. First Aid Facilities

Contractor shall keep first aid facilities and supplies on the jobsite. Contractor shall provide instruction in first aid as required by State regulations. Contractor shall provide emergency first aid treatment and supplies for his employees sufficient to comply with all applicable laws.

9. Heat Illness Prevention Plan

In hot environments, Contractor shall comply with the California Code of Regulations Title 8, Section 3396, Heat Illness Prevention and shall refer to BCVWD Heat Illness Prevention Program and implement proper procedures to protect Contractors employees and Sub-Contractor employees from over exposure.

10. Materials

The District will furnish all pipeline materials and appurtenances in order to meet the required time schedule,

Contractor shall provide imported select pipe zone backfill and Class II Base backfill material (above the pipe zone to the road bed sub grade for the pipeline replacement project.

If required by the Contract Documents, Contractor shall furnish only approved materials as listed in the Owner's "District Standards for furnishing of Materials and Construction of Water and Recycled Water Facilities and Preparation of Water System Plans". All materials to be furnished by Contractor shall be new and of the best quality for their intended use. All like materials shall be of one manufacture for any particular project.

If required, the Contractor shall submit 3 copies of all material lists to the Owner for approval thereof. Said material lists shall include manufacturer's name, designation, description, and related information of all materials to be furnished and installed or otherwise used by Contractor in the performance of the Work. Said material lists shall be submitted at or prior to project preconstruction meeting and said lists shall be approved by the Owner prior to beginning construction.

11. Construction

Contractor alone shall be responsible for the safety, efficiency, and adequacy of his plant, equipment, appliances, and methods and for any damage which may result from their failure or their improper construction, maintenance, or operation.

Contractor shall be responsible for examining all Construction Drawings, Specifications, Standard Drawings, Work site, delivery routes, and local conditions which may affect the Work.

Before proceeding with the Work, Contractor shall furnish the Owner any information required of him by the Construction Drawings, Specifications, Standard Drawings, Special Requirements, and Directions of the Owner.

Contractor shall keep at jobsite a complete set of Construction Drawings, Specifications, Standard Drawings, permits, certificates and licenses for the Work, and all other data required by the Owner. Contractor shall be responsible for checking all dimensions and quantities on said drawings or schedules and shall notify the Owner of any errors and omissions found.

Until acceptance of the Work by the Owner, Contractor shall bear the risk of injury or damage to any part of the Work by action of the elements or from any other cause and Contractor shall rebuild, repair, restore, and make good any injuries or damages to the Work.

Contractor shall cooperate with other contractors who are working in the project area on behalf of other public entities and the City of Beaumont as the Owner may specify and he shall comply with all orders of

the Owner. Contractor shall employ only competent and skillful persons to perform the Work. Said persons shall be qualified or certified to perform the Work in accordance with requirements of said person's trade.

Contractor shall submit to the Owner for approval a construction schedule covering all Work based on normal work periods. Contractor shall not deviate from approved schedule without prior permission from the Owner. Whenever Contractor arranges to work at night or at any time other than normal work periods or to vary the period during which Work is to be carried on each day, he shall obtain special permission from the Owner to do so and he shall keep the Owner properly informed of his activities. Construction schedule shall show the order in which Contractor proposes to carry out Work, dates of anticipated commencement and completion of Work and salient components thereof, and estimated percentage of Work to be completed at any time during the construction period.

12. Records of Construction

Contractor shall maintain at least one complete set of Construction Drawings on the jobsite during the course of construction upon which he shall note any changes in the Work as they occur. Contractor shall maintain said Drawings so that the Owner may at any time during the course of construction ascertain the changes that have occurred. Said Construction Drawings shall be the basis of the two sets of record drawings that Contractor shall provide the Owner upon completion of the Work.

13. Inspection

All materials and equipment furnished and all Work performed shall be subject to rigid inspection by the Owner. Contractor may be required to remove and replace under proper inspection any Work performed in the absence of prescribed inspection, with the entire cost being borne by Contractor irrespective of whether such Work is found to be defective. Work covered up without authority of the Owner shall, upon order of the Owner, be uncovered to the extent required to permit inspection, repair, or replacement and thereafter be recovered, and Contractor shall bear entire cost.

14. Examination of Work

Contractor shall furnish the Owner every reasonable facility for ascertaining whether Work is being accomplished in accordance with the requirements and intention of the Construction Drawings, Specifications, Standard Drawings, Special Requirements, and Directions of the Owner.

15. Right to Occupy Work

The Owner may wish to occupy or place in service portions of the Work before its final completion and shall be at liberty to do so. Such occupancy or placing in service of any portion of the Work shall not relieve Contractor of his responsibility of protection and care of all Work until final completion and acceptance provided, however, that expense directly attributable to operation and placing portions of Work in service shall not be chargeable to Contractor.

16. Maintenance and Guarantee

Contractor shall guarantee that all Work performed by him meets all requirements specified as to character, quality, and quantity of materials and workmanship. Contractor shall replace all materials and pay all installation costs made necessary by defects of workmanship supplied by him that become evident within one year after acceptance of the facilities or the date of final payment, whichever occurs later.

Contractor shall replace all defective materials if said materials are related to defects in the Contractor's workmanship promptly upon receipt of written notice from the Owner. If Contractor fails to replace all defective materials promptly, the Owner may secure the service of others to perform the Work and Contractor shall be liable to the Owner for any costs including removal and replacement thereof.

17. Construction Power

Contractor shall provide all necessary power required for his operations, and shall provide and maintain in good order such modern power equipment and installation as shall be adequate, in the opinion of the Owner, to perform the required Work in a safe and satisfactory manner.

18. Construction Water

Unless specified otherwise, the Owner will provide construction water to Contractor from its existing system at established rates. Contractor shall furnish and install all necessary piping and appurtenances necessary to convey water from the Owner's metered service connection to place of use.

19. Welding

Welding shall be done by the electric arc method using a process which excludes the atmosphere from the molten metal, except where otherwise approved by the Owner. Welding electrodes used for manual welding shall be an approved type. Except as modified herein, welding process qualification and operator qualification shall comply with the applicable requirements of the "Code for Arc and Gas Welding in Building Construction" of the AWS.

Each weld shall be uniform in width and size throughout its entire length. Each layer shall be smooth, free from slag, cracks, pinholes, and undercut and shall be completely fused to adjacent weld beads and base metal. Cover pass shall be completely free of course ripples, irregular surfaces, non-uniform bead pattern, high crown, deep ridges, or valleys between beads, and shall blend smoothly and gradually into surface of base metal. Butt welds shall be slightly convex, of uniform height, and shall have full penetration. Fillet welds shall be of size indicated, with full throat, and with each leg of equal length. Repair, chipping, or grinding of welds shall not gouge, groove, or reduce base metal thickness.

20. Environmental Factors

Contractor shall take all reasonable precautions to protect the environment.

a. Air Pollution

Contractor shall use only machinery and equipment which is equipped with suitable air pollution control devices so that undue quantities of pollutants are not added to the atmosphere in the vicinity of the Work site. Contractor's equipment shall meet all Federal, State, and local requirements for air quality emissions and Contractor shall comply with all applicable Federal, State, and local air pollution control regulations.

Contractor shall also take all necessary precautions to control dust created by construction operations. Contractor shall be especially diligent in implementing his dust control program and he shall be prepared to respond immediately and positively to any instructions for corrective action given by the Owner. Contractor shall use dust palliatives if necessary to satisfactorily control dust; however, Contractor shall secure the Owner's approval for use of dust palliatives other than water.

b. Explosives

Contractor shall handle, transport, store, and use explosives in accordance with applicable Federal, State, and local laws and regulations. Contractor shall be responsible for and make good any damage caused by his use of explosives.

c. Fires

Contractor shall exercise all precautions necessary to prevent unauthorized fires within or adjacent to the limits of the Work. Contractor shall be responsible for all damage resulting from fire due directly or indirectly to his or his employees' activities or the activities of his subcontractors or their employees.

d. Drainage and Flooding

Contractor shall manage excavation and spoil banks such that existing drainage conditions are not impaired. Contractor shall provide drainage in all cases where the existing drainage conditions are being unavoidably altered or disturbed by his operations. Temporary diversions, ditches, checks, swales, or other drainage structures or features necessary to ensure proper drainage and flood control shall be provided by Contractor at no extra cost to the Owner.

e. Historical and Archaeological Sites

If Contractor should encounter any evidence of historical or archaeological significance, he shall immediately cease construction, notify the Owner, and refrain from any activity until the Owner orders Work to resume. The Owner will assume full responsibility for any delays caused by historical or archaeological investigations.

f. Noise Pollution

Contractor shall equip all machinery and equipment used for construction with noise control devices such as mufflers for internal combustion engines or other suitable noise suppressors. Noise produced by construction operations shall be kept to a minimum and shall be consistent with reasonable human health requirements considering time of day and location of Work site. Contractor shall comply with all applicable Federal, State, and local noise pollution control regulations.

Unless specified otherwise, noise levels in connection with the Work shall not exceed 75 dB(A) at a distance of one hundred (100) feet for relatively continuous exposure and they shall not exceed 90 dB(A) at that same distance for relatively infrequent intermittent exposure. Contractor shall be prepared to respond immediately and positively to any instructions for corrective action given by the Owner particularly with respect to complaints from the public.

g. Public Relations

Contractor shall give due consideration to the comfort and convenience of the public and he shall instruct his employees to be polite and respectful in their dealings with the public at the Work site and in traveling to and from the Work site.

h. Traffic

Contractor shall adequately protect the public using any roads which are involved in Contractor's operations and he shall maintain safe traffic flow in the vicinity of the Work. Contractor shall use signs, barricades, delineators, flashers, and flagmen, all in strict compliance with Federal, State, and local rules and regulations regarding traffic control. Public roadways shall not be barricaded or blockaded except in accordance with requirements of public agencies having jurisdiction over same. Contractor shall provide access to all walkways, sidewalks, driveways, and streets at all times. Contractor shall furnish and implement traffic control plan for the Work, and Contractor shall modify said traffic control plan (as approved by the City of Beaumont), if required to provide a safe work space.

i. Vegetation and Wildlife

Contractor shall not destroy or disturb any vegetation or habitat unless absolutely necessary for the performance of the Work. Contractor shall take all steps necessary to ensure that his employees do not destroy or disturb any vegetation or wildlife in the prosecution of the Work or incidental thereto, including travel to and from the Work site.

j. Water Pollution

Contractor shall discard materials which might adversely affect ground or surface water at approved dump sites only. Chemicals and other water pollutants shall not be discharged into natural watercourses or on land tributary to said watercourses. Contractor shall comply with all applicable Federal, State, and local water pollution control regulations.

k. Cleanup

Contractor shall keep the premises occupied by him in a neat, clean condition free from unsightly accumulation of rubbish. Contractor shall maintain all Work areas within or without the project limits free from dust which would cause a hazard to the Work, operations of other contractors, or other persons or property. Upon completion of the Work, Contractor shall at his own expense satisfactorily dispose of or remove from the vicinity of the Work all plants, building, rubbish, unused materials, concrete forms, and other equipment and materials belonging to him or used under his direction during construction and, if he fails to do so, the same may be removed and disposed of by the Owner at Contractor's expense.

BEAUMONT-CHERRY VALLEY WATER DISTRICT

MDP LINE 16 WATER PIPELINE RELOCATION PROJECT

PIPELINE 6A – GRAND AVENUE EAST OF MARTIN LANE

PIPELINE 7 – P-3040-0027

PIPELINE 8 – NOBLE STREET TO EL MONTE DRIVE

SPECIAL REQUIREMENTS

**BEAUMONT-CHERRY VALLEY WATER DISTRICT
MDP LINE 16 WATER PIPELINE RELOCATION PROJECT**

**PIPELINE 6A – GRAND AVENUE EAST OF MARTIN LANE
PIPELINE 7 – P-3040-0027
PIPELINE 8 – NOBLE STREET TO EL MONTE DRIVE**

SPECIAL REQUIREMENTS

These Special Requirements set forth requirements for work related to the replacement of Beaumont-Cherry Valley Water District water facilities (i.e. pipelines and appurtenances).

SR-01 Contract Documents, Specifications, and Drawings The Contractor shall recognize and acknowledge the condition that Bid Schedule I shall include all work activities necessary to install the new pipeline, water services, fire hydrants, and appurtenances identified on the Contract Plans (Construction drawings) and abandon existing pipelines, blow offs, and associated water services being replaced and that there will be no additional compensation from the Owner for the completion of said work.

SR-02 District Standard Specifications Work shall be completed in accordance with the Beaumont-Cherry Valley Water District “District Standards for the Furnishing of Materials and Construction of Water and Recycled Water Facilities and Preparation of Water System Plans.” Copies of said standards are available at the District website: www.bcvwd.org and specific referenced Standard Drawings are included at the back of this specification.

SR-03 Construction Drawings

The following Beaumont-Cherry Valley Water District Drawings are made a part of these Contract Documents:

Beaumont-Cherry Valley Water District Construction Drawings (24" x 36")

Titled:

PIPELINE RELOCATION PLAN FOR BEAUMONT MASTER DRAINAGE PLAN LINE 16

<u>Title</u>	<u>Sheet No.</u>
Title, Sheet Index, Vicinity Map, and Construction Notes	1 of 14
Pipeline 6A: Sta. 5+08 – Sta. 10+10± (MDP Line 16: Sta. 13+50± - Sta. 18+50±)	7 of 14
Pipeline 7: Sta. 30+00 – Sta. 34+04± (MDP Line 16: Sta. 51+00 - Sta. 55+20±)	8 of 14
Pipeline 7: Sta. 34+04± – Sta. 40+47± (MDP Line 16: Sta. 55+20± - Sta. 61+63±)	9 of 14
Pipeline 7: Sta. 40+47± – Sta. 46+89± (MDP Line 16: Sta. 61+63± - Line 16D Sta. 13+80±)	10 of 14
Pipeline 7: Sta. 46+89± – Sta. 52+10± (Line 16D Sta. 13+80± - Line 16D Sta. 19+00±)	11 of 14
Pipeline 7: Sta. 52+10± – Sta. 56+62± (MDP Line 16: Sta. 19+00± - Sta. 23+61±)	12 of 14
Pipeline 8: Sta. 10+00 – Sta. 14+47± (MDP Line 16: Sta. 24+00 - Sta. 29+34±)	13 of 14
Pipeline 8: Sta. 14+47± – Sta. 18+81± (MDP Line 16: Sta. 29+34± - Sta. 34+97±)	14 of 14

***Sheets 2 – 6 omitted, work pertaining to Pipelines 1 – 6 not part of this bid package**

Beaumont-Cherry Valley Water District Standard Drawings (8-1/2" x 11")
(Bound at the Back of these Special Requirements)

<u>Title</u>	<u>Plate No.</u>
Water Sewer Separation Requirements	Plate D4-1, D4-2, D4-3, and D4-4
Standard Fire Hydrant	Plate 1
Gate Valve/Valve Can Installation	Plate 2
4-inch Blowoff Detail	Plate 3-1
2" Combination Air-Vac Assembly Detail	Plate 5-1
Trench Detail	Plate 6-1
Service Trench Detail	Plate 6-2
1" Service Line Detail	Plate 6-3
2" Service Line Detail	Plate 6-4
Flexible Coupling Tie Details	Plate 9
Thrust Block Details	Plate 11-1 to 11-2
Meter Box Installation	Plate 12

SR-04 Special Work Requirements At the end of every workday, the Contractor shall completely backfill and compact all open pipeline and water service trenches. No trench shall be left open after work hours without special approval of the District and the County of Riverside.

SR-05 Scope of Work Under these Specifications the Contractor shall furnish all labor and equipment to complete Construction of the MDP Line 16 Water Pipeline Relocation Plan (Pipeline 6A, 7, 8) in accordance with the Contract Documents (plans and specifications). Work generally consists of installing District furnished materials and appurtenances necessary to construct new pipeline, new cut in tee assemblies, valves, and appurtenances (as shown on the Drawings), service saddles, corporation stops, and service lateral runs to existing water meter locations installed behind existing curb and gutter, and test and disinfect said pipeline and service installations. Work shall include installation of new District furnished water meters and connection of those meters to customer service lines (from the back of meter to each residence). Said pipeline points of connections and water meter locations are further described hereafter and as shown on the Construction Drawings.

A brief scope description of work to perform as shown on the contract drawings is as follows:

NOTE: Quantities provided below are approximate. Bidders are responsible to verify actual quantities from the detailed design drawings to accurately calculate quantity take-offs.

General Description of the MDP Line 16 Water Pipeline Relocation Project (Pipeline 6A, 7, 8) work activities:

- Install approximately **1,400 linear feet** of District furnished 8" ductile iron pipeline materials and appurtenances as shown on the Construction Drawings, install new cut in points of connection with temporary bulkheads and test risers, pressure and leak test and disinfect said new pipeline.
- Install approximately **2,560 linear feet** of District furnished 12" ductile iron pipeline materials and appurtenances as shown on the Construction Drawings, install new cut in points of connection with temporary bulkheads and test risers, pressure and leak test and disinfect said new pipeline.
- Install approximately **15 linear feet** of District furnished 4" ductile iron pipeline materials

and appurtenances as shown on the Construction Drawings, install new cut in points of connection with temporary bulkheads and test risers, pressure and leak test and disinfect said new pipeline.

- Install approximately **50 linear feet** of District furnished 6" ductile iron pipeline materials and appurtenances as shown on the Construction Drawings, install new cut in points of connection with temporary bulkheads and test risers, pressure and leak test and disinfect said new pipeline.
- Install District furnished 1" service saddle(s) and corporation stop(s) per BCVWD Standard Drawing 6-1 for new service lateral locations as shown on the Construction Drawings.
- Install District furnished, 1" water service lateral(s) and new angle meter stop(s) on new pipeline per Standard Drawings 6-1 and 6-2 (excluding meter(s) initially). Upon completion and testing of new water main, abandon existing water main services and disconnect existing service and angle meter stop from existing water meter and connect new service and new angle meter stop to new District furnished water meter. Said meters are located in behind curb and gutter, and/or in right of way. Contractor shall connect new meters to existing customer service line (i.e. customer piping).
- After the new water laterals are installed and service is restored to the water meter, abandon the existing service lateral(s).
- Relocate existing water service(s) if necessary, including all coordination of said relocation with BCVWD.
- Disinfect all potable water pipelines, appurtenances, and water service piping and appurtenances (per AWWA Standard).
- Provide Water District customer notifications (letters and door-hangers) detailing water pipeline installation and replacement water service installation.
- Some meter boxes and lids may be damaged and require replacement. Said items will be furnished by the District on an as needed basis and shall be replaced as needed in accordance with District Standards.
- Once new water line facilities are installed, Contractor shall abandon all existing water lines in place as indicated on the construction drawings and insert a 3 foot minimum concrete plug on the end of all open abandoned water pipelines and appurtenances such as existing blow off assemblies.
- Contractor shall coordinate all work and connection activities with District to ensure disruption of water service to each connection is minimized.

SR-06 Water Pipeline Installation and Water Service Connections The Contractor shall notify the District one (1) week in advance of the planned water pipeline and water service installation work and also provide forty-eight (48) hour and twenty-four (24) hour advance confirmation of when the work will be performed.

Contractor shall be responsible for dewatering, de-chlorination, and disposal of all water from all points of connection locations and all testing/flushing activities. Discharge of all water must abide by the District's NPDES permit which limits total residual chlorine to a maximum concentration of 0.1 mg/l.

Contractor shall also protect existing water pipelines and residential and commercial services from contamination during water service installation and connection procedures. Contractor shall disinfect all water pipelines, new water services and appurtenances, pipeline closure materials (tie-in materials) and the existing pipeline at connection points per AWWA Section C- 651. All costs associated with connections to existing water pipelines shall be included in the appropriate bid item.

Sequence of Disinfection for New Water Pipeline and Service Laterals, Facilities, and Appurtenances: The new pipeline and water service laterals, facilities, and appurtenances shall be disinfected only after all of the new water pipeline, fire hydrants, service lateral, and appurtenances are installed and pressure tested.

- **EXISTING WATER SERVICE LATERALS MUST BE KEPT IN SERVICE UNTIL NEW DOMESTIC WATER SERVICE LATERALS ARE INSTALLED AND CONNECTED TO THE EXISTING SERVICE.**

SR-07 Reference to District's Standard Drawings and Detailed Provisions Any and all referenced "District Standards for the Furnishing of Materials and Construction of Water and Recycled Water Facilities and Preparation of Water Plans" shall be considered part of the contract drawings and specifications. All referenced Standard Drawings and Standards of the District are available from the District upon request or on the District's website at www.bcvwd.org. The Contractor shall not be entitled to any compensation due to referenced documents not included in the Specifications and Contract Drawings.

SR-08 Construction Soils Compaction Tests Upon Contractor's request, the District's consultant will provide soil/compaction testing for the project. However, any cost of re-compaction due to the Contractor's negligence will be at the Contractor's expense. A forty-eight (48) hour notice is required for soil services.

SR-09 Coordination It shall be the Contractor's responsibility to coordinate his activities with any other contractors performing work in the project area and to cooperate with all other contractors within reasonable and professional norms so that all construction may be completed in a timely manner. In the event a scheduling conflict arises between contractors performing work on the job site and if both parties are unable to reach an agreement, the County of Riverside and/or the District shall be the final authority in resolving said scheduling conflict. No additional compensation will be allowed due to conflicts with other construction in the area.

SR-10 Existing Underground Utilities and Potholing for Existing Utilities Unless otherwise indicated on the plans or directly by the utility owner, all utilities shall be protected in place and service maintained as part of the project work. The existing and proposed water pipeline alignments, water service lateral alignments and known utilities are plotted on the plan view of the plans. Contractor shall notify USA (Dig alert) of identified project area, and pothole all existing utilities and points of connection, and protect in place all points of connections, water service crossings and utilities affected by the proposed water pipeline and water service lateral installations.

The Contractor is responsible for performing exploratory excavations (potholing) along the alignment of the project to confirm location of existing utilities and to establish water service lateral installation requirements to existing pipelines and water meters. **The Contractor is hereby granted permission to use vacuum excavation on BCVWD facilities. Vacuum excavations may not be used on any other facilities unless written permission is obtained from the owner of the facility in accordance with State Law 4216.** The Contractor shall field survey the elevation and location of utilities, including tie-in points, and verify no conflict exists between existing utilities and new water service laterals. All associated costs with potholing shall be

included in the unit bid price of water service laterals stated in the Bid Schedule and no additional compensation will be allowed.

SR-11 Provisions for Securing of Trenches and Continuous access All trenches within the street right-of-way must be backfilled at the end of each workday per typical County of Riverside Encroachment Permit requirements. The Contractor will be required to provide complete unobstructed access to each resident's driveway at the end of every workday. The Contractor will be required to provide complete unobstructed access for emergency vehicles at all times during construction.

The Contractor will be responsible for notifying the residents seventy-two (72) hours in advance that construction activities will occur in front of their residence and that their driveways may be blocked for short durations by these construction activities.

The cost of securing trenches and providing continuous access shall be included in the Contractor's bid and no additional compensation will be allowed.

SR-12 Preservation of Existing Improvements, Restoration of Work Site and Disposal of Spoil and Waste Materials

- A. Contractor shall perform his operations so that existing improvements (including roads and other paved surfaces adjacent to or in the vicinity of the work site) are not damaged. Contractor shall repair and restore any disturbed or damaged private or public improvements, which results from his operations (except that which is specifically a part of the Contract Work) to the satisfaction of the District, or the agency having jurisdiction over said improvements, all at the Contractor's expense.
- B. All work sites shall be restored to pre-job conditions and shall meet the requirements of the District and property owner.
- C. Contractor shall be responsible for the proper disposal of all waste materials resulting from his operations, including rubbish, packaging materials, discarded equipment parts, and damaged construction materials, in a manner and at locations suitable to the District and all health and other regulatory agencies.
- D. Contractor shall be responsible for the proper disposal of all excavated soils resulting from the placement of the proposed pipeline, service laterals, and appurtenances.

SR-13 Valve Cans After the street improvements have been completed, valve cans over the new and or existing valves shall be replaced as necessary (with District furnished materials) to match the new pavement section (where applicable) in accordance with the City of Beaumont's recently completed and/or new pavement rehabilitation projects.

SR-14 Owner Furnished, Contractor Installed Items The District will furnish all water pipeline materials required to complete work as indicated on the Construction Drawings.

The Contractor shall coordinate delivery of all materials and appurtenances with District staff and shall also request water meter boxes, lids, and meters a minimum of 48 hours prior to the time they are needed for installation and the District will deliver said items to the project site. The Contractor shall complete a Meter Change-Out Form provided by the District which identifies existing replaced

meter information together with new meter and automatic read radio unit information (i.e. serial numbers, sizes, existing and new meter reads, etc.).

SR-15 Records of Construction Contractor shall keep and maintain, at the job site, one record set of Construction Drawings.

SR-16 Protection of Buried Metal Appurtenances All metal appurtenances including water service laterals shall be taped or polyethylene encased.

SR-17 Local Conditions The Contractor shall assess, by personal investigation, local conditions affecting the work. Neither the information contained in this section nor that derived from any maps or plats, or from the District or employees shall act to relieve the Contractor of any responsibility herein or from fulfilling any and all of the terms and requirements of this Contract. The Contractor shall protect existing curbs and gutters in place or remove and replace sections of said concrete curb and gutter (as necessary) to install the new water service lateral piping in accordance with City of Beaumont requirements.

Nuisance water, such as rainfall, irrigation water, or local surface runoff may occur within construction areas during the period of construction under this Contract. The Contractor, by submitting his bid, will be held responsible for having investigated the risks arising from such water and shall take all due measures to prevent delays in progress of the work caused by such waters. All costs associated with coordination of work with regards to local conditions, including nuisance water, shall be included in the bid and no additional compensation will be allowed.

The cost of this Work, including permits and retention of licensed subcontractors, shall be included in the appropriate bid item and no additional compensation will be allowed.

SR-18 Shutdown Requirements, Work Restrictions and Operations Coordination Contractor shall coordinate the shutdown operation of existing systems with the District. No work shall be performed without 2 week prior notice followed by forty-eight (48) hour prior and twenty-four (24) hour confirmation notices to the District. No shutdown work shall be done without a District representative present.

SR-19 Utility Service Lines There may be existing individual utility services and service crossings such as water, sewer, gas, electric, telephone and cable TV. The Contractor shall pothole and locate all individual utility services prior to construction

SR-20 Customer Notification Door-Hanger Contractor shall place door-hanger notices for every Customer prior to construction. The door-hanger shall be double sided; one side for English language and the other side for Spanish language. The Contractor shall provide contact information for questions and a brief description of the water service lateral installation work and temporary breaks of service during said work activities.

BEAUMONT-CHERRY VALLEY WATER DISTRICT

MDP LINE 16 WATER PIPELINE REPLACEMENT PROJECT

PIPELINE 6A – GRAND AVENUE EAST OF MARTIN LANE

PIPELINE 7 – P-3040-0027

PIPELINE 8 – NOBLE STREET TO EL MONTE DRIVE

APPENDIX C

PROJECT COST ESTIMATE SUMMARY

BEAUMONT-CHERRY VALLEY WATER DISTRICT
REPLACEMENT PIPELINE CONSTRUCTION COST ESTIMATE
Replacement Pipeline 6A Project for Beaumont MDP Line 16

ITEM NO.	DESCRIPTION	QTY	UNIT	ENGINEER'S ESTIMATE	
				UNIT PRICE	TOTAL
1	Mobilization				
1.1	Mobilization	0	L.S.	\$3,700.00	\$0.00
1.2	Bonds/Insurance	0	L.S.	\$3,330.00	\$0.00
1.3	Schedule of Values	0	L.S.	\$925.00	\$0.00
1.4	Preliminary Project Schedule	0	L.S.	\$925.00	\$0.00
1.5	Demobilization	0	L.S.	\$2,312.50	\$0.00
				Sub Total:	\$0.00
2	Dust Control				
2.1	Dust Control	0	L.S.	\$2,500.00	\$0.00
				Sub Total:	\$0.00
3	SWPPP				
3.1	Erosion Control Plan	0	L.S.	\$1,000.00	\$0.00
3.2	Install Initial BMPS	0	L.S.	\$1,200.00	\$0.00
3.3	Maintain BMPS	0	L.S.	\$500.00	\$0.00
				Sub Total:	\$0.00
4	Traffic Control				
4.1	Implement Traffic Control	1	L.S.	\$1,500.00	\$1,500.00
				Sub Total:	\$1,500.00
5	Potable Water Pipeline				
5.1	8" Potable Water Pipeline (DIP) - Delivered and Offloaded	504	L.F.	\$ 29.70	\$14,968.80
5.2	Installation of District Furnished Pipeline, contractor furnished backfill and compaction	504	L.F.	\$ 95.00	\$47,880.00
5.5	Test, Disinfection and Cleanup	1	LS	\$ 2,500.00	\$2,500.00
5.6	Sand Material	104	CY	\$ 15.00	\$1,560.45
5.7	Excess Dirt Hauloff & Haulin	249	CY	\$ 5.00	\$1,244.44
5.8	Process Backfill Material	249	CY	\$ 5.00	\$1,244.44
5.10	8" Waterline Appurtenances (Material Only)	1	LS	\$ 5,060.00	\$5,060.00
5.11	6" Gate Valve Assembly and Appurtenances (Material Only)	1	LS	\$ 5,090.00	\$5,090.00
5.12	1" Domestic Service Assemblies and Appurtenances (Material Only)	1	LS	\$ 8,365.00	\$8,365.00
5.13	Install District furnished 1" Service assemblies	8	EA	\$ 1,600.00	\$12,800.00
5.14	Temporary Blowoff Assembly (Material Only)	1	LS	\$ 290.00	\$290.00
5.16	Connect to Existing Waterline	2	EA	\$ 3,500.00	\$7,000.00
5.17	Abandon in Place Existing Waterline	1	LS	\$ 2,500.00	\$2,500.00
				Sub Total:	\$110,500.00

BEAUMONT-CHERRY VALLEY WATER DISTRICT
REPLACEMENT PIPELINE CONSTRUCTION COST ESTIMATE
Replacement Pipeline 6A Project for Beaumont MDP Line 16

ITEM NO.	DESCRIPTION	QTY	UNIT	ENGINEER'S ESTIMATE	
				UNIT PRICE	TOTAL
6	Pavement Removal Repair and Replacement				
6.1	Temporary Pavement (as required at end of each day, contractor furnished)	504	LF	\$16.00	\$8,064.00
6.2	Furnish all Labor and Materials for 4" HMA and Min 6" Class II Base	504	LF	\$45.00	\$22,680.00
				Sub Total:	\$30,744.00
7	Field Inspection/Engineering Support				
7.1	Field Inspections	1	LS	\$2,000.00	\$2,000.00
7.2	Engineering Support	1	LS	\$700.00	\$700.00
				Sub Total:	\$2,700.00
8	Contract Administration				
8.1	Construction Administration	1	LS	\$750.00	\$750.00
8.2	Review of Submittals	1	LS	\$500.00	\$500.00
8.3	Labor Compliance	1	LS	\$750.00	\$750.00
8.4	Project Management	1	LS	\$1,000.00	\$1,000.00
				Sub Total:	\$3,000.00
SUBTOTAL ENGINEERS ESTIMATE (CONSTRUCTION)					\$148,444.00
CONSTRUCTION CONTINGENCY (20%) (CONSTRUCTION)					\$29,688.80
TOTAL PIPELINE CONSTRUCTION ESTIMATE AND CONTINGENCIES					\$178,132.80

BEAUMONT-CHERRY VALLEY WATER DISTRICT
REPLACEMENT PIPELINE CONSTRUCTION COST ESTIMATE
Replacement Pipeline 7 (P-3040 -0027) for Beaumont MDP Line 16

ITEM NO.	DESCRIPTION	QTY	UNIT	ENGINEER'S ESTIMATE	
				UNIT PRICE	TOTAL
1	Mobilization				
1.1	Mobilization	1	L.S.	\$5,000.00	\$5,000.00
1.2	Bonds/Insurance	1	L.S.	\$16,579.80	\$16,579.80
1.3	Schedule of Values	1	L.S.	\$4,605.50	\$4,605.50
1.4	Preliminary Project Schedule	1	L.S.	\$4,605.50	\$4,605.50
1.5	Demobilization	1	L.S.	\$11,513.75	\$11,513.75
				Sub Total:	\$42,300.00
2	Dust Control				
2.1	Dust Control	0	L.S.	\$2,500.00	\$0.00
				Sub Total:	\$0.00
3	SWPPP				
3.1	Erosion Control Plan	0	L.S.	\$1,000.00	\$0.00
3.2	Install Initial BMPS	0	L.S.	\$1,200.00	\$0.00
3.3	Maintain BMPS	0	L.S.	\$500.00	\$0.00
				Sub Total:	\$0.00
4	Traffic Control				
4.1	Implement Traffic Control	1	L.S.	\$5,000.00	\$5,000.00
				Sub Total:	\$5,000.00
5	Potable Water Pipeline				
5.1	12" Potable Water Pipeline (DIP) - Delivered and Offloaded	2319	L.F.	\$ 44.50	\$103,195.50
5.2	12" Potable Water Pipeline (DIP) Field Lok Gaskets	160	EA	\$ 118.79	\$19,006.40
5.3	Contractor install District furnished 12" DIP, including installation of all appurtenances. Installation of Contractor furnished backfill	2319	L.F.	\$ 100.00	\$231,900.00
5.4	Test and Cleanup	1	LS	\$ 7,500.00	\$7,500.00
5.5	Sand Material	588	CY	\$ 14.10	\$8,295.18
5.6	Excess Dirt Hauloff & Haulin	1288	CY	\$ 6.25	\$8,052.08
5.7	Process Backfill Material	1288	CY	\$ 6.25	\$8,052.08
5.8	Restrained Joints (Romac)	6	EA	\$ 350.00	\$2,100.00
	Jonathan Avenue Connection				
5.9	12" Cross	1	EA	\$ 6,000.00	\$6,000.00
5.10	12" Gate Valve	4	EA	\$ 2,300.00	\$9,200.00
5.11	12" Blind Flange	2	EA	\$ 150.00	\$300.00
5.12	12" Flg'd x MJ Adapter	4	EA	\$ 375.00	\$1,500.00
5.13	12" x 6" Reducer	1	EA	\$ 1,000.00	\$1,000.00
5.14	6" Tee	1	EA	\$ 1,000.00	\$1,000.00
5.15	6" Gate Valve	2	EA	\$ 820.00	\$1,640.00
5.16	6" Flg'd x MJ Adapter	1	EA	\$ 120.26	\$120.26
5.17	6" x 36" Flg'd x PE Steel Spool	2	EA	\$ 500.00	\$1,000.00
5.18	5" - 6" Transition Flex Coupling w/ Welded Ties	2	EA	\$ 250.00	\$500.00
5.19	Temporary Blowoff Assembly	2	LS	\$ 289.25	\$578.50
5.20	Temporary Air Vac Assembly	1	LS	\$ 289.25	\$289.25
5.21	All labor to complete Jonathan Avenue Connection	1	LS	\$ 4,500.00	\$4,500.00

BEAUMONT-CHERRY VALLEY WATER DISTRICT
REPLACEMENT PIPELINE CONSTRUCTION COST ESTIMATE
Replacement Pipeline 7 (P-3040 -0027) for Beaumont MDP Line 16

ITEM NO.	DESCRIPTION	QTY	UNIT	ENGINEER'S ESTIMATE	
				UNIT PRICE	TOTAL
Winesap Avenue Connection					
5.22	16" Cross	1	EA	\$ 12,000.00	\$12,000.00
5.23	16" Butterfly Valve	2	EA	\$ 3,000.00	\$6,000.00
5.24	16" x 12" Reducer	2	EA	\$ 1,500.00	\$3,000.00
5.25	16" x 6" Reducer	2	EA	\$ 1,300.00	\$2,600.00
5.26	16" Flg'd x MJ Adapter	2	EA	\$ 825.00	\$1,650.00
5.27	6" x 36" Flg'd x PE Steel Spool	2	EA	\$ 850.00	\$1,700.00
5.28	12" Flg'd x MJ Adapter	2	EA	\$ 375.00	\$750.00
5.29	12" Gate Valve	2	EA	\$ 2,300.00	\$4,600.00
5.30	6" Flex Coupling w Welded Ties	1	EA	\$ 250.00	\$250.00
5.31	All labor to complete Winesap Avenue Connection	1	LS	\$ 4,500.00	\$4,500.00
Bellflower Avenue Connection					
5.32	12" Tee	1	EA	\$ 3,000.00	\$3,000.00
5.33	12" Gate Valve	3	EA	\$ 2,300.00	\$6,900.00
5.34	12" x 6" Flg'd Reducer	2	EA	\$ 1,000.00	\$2,000.00
5.35	12" Flg'd x MJ Adapter	1	EA	\$ 375.00	\$375.00
5.36	6" x 4" Reducer	2	EA	\$ 500.00	\$1,000.00
5.37	6" Flg'd x MJ Adapter	4	EA	\$ 120.26	\$481.04
5.38	6" DIP	75	LF	\$ 22.47	\$1,685.25
5.39	4" x 36" Flg'd x PE Steel Spool	2	EA	\$ 400.00	\$800.00
5.40	4" Flex Coupling w/ Welded Ties	2	EA	\$ 180.00	\$360.00
5.41	All labor to complete Bellflower Avenue Connection	1	LS	\$ 4,500.00	\$4,500.00
Detail "F" Connection, between Winesap and Bellflower					
5.42	12" Cross	1	EA	\$ 6,000.00	\$6,000.00
5.43	12" Gate Valve	4	EA	\$ 2,300.00	\$9,200.00
5.44	12" x 6" Flg'd Reducer	2	EA	\$ 1,000.00	\$2,000.00
5.45	12" Flg'd x MJ Adapter	2	EA	\$ 375.00	\$750.00
5.46	6" x 4" Reducer	1	EA	\$ 500.00	\$500.00
5.47	6" Flg'd x MJ Adapter	1	EA	\$ 120.26	\$120.26
5.48	6" DIP	50	LF	\$ 22.47	\$1,123.50
5.49	4" x 36" Flg'd x PE Steel Spool	1	EA	\$ 400.00	\$400.00
5.50	4" Flex Coupling w/ Welded Ties	1	EA	\$ 180.00	\$180.00
5.51	5" - 6" Transition Flex Coupling w/ Welded Ties	1	EA	\$ 250.00	\$250.00
5.52	6" x 36" Flg'd x PE Steel Spool	1	EA	\$ 850.00	\$850.00
5.53	All labor to complete Detail "F" Connection	1	LS	\$ 4,500.00	\$4,500.00
				Sub Total:	\$499,754.30
6 Pavement Removal Repair and Replacement					
6.1	Temporary Pavement (as required at end of each day, contractor furnished labor and materials)	2319	LF	\$16.50	\$38,263.50
6.2	Contractor furnished labor and materials for 4" HMA and 6" min Class II Base	2319	LF	\$45.00	\$104,355.00
				Sub Total:	\$142,618.50
7 Field Inspection/Engineering Support					
7.1	Field Inspections	1	LS	\$5,000.00	\$5,000.00
7.2	Engineering Support	1	LS	\$750.00	\$750.00
				Sub Total:	\$5,750.00

BEAUMONT-CHERRY VALLEY WATER DISTRICT
REPLACEMENT PIPELINE CONSTRUCTION COST ESTIMATE
 Replacement Pipeline 7 (P-3040 -0027) for Beaumont MDP Line 16

ITEM NO.	DESCRIPTION	QTY	UNIT	ENGINEER'S ESTIMATE	
				UNIT PRICE	TOTAL
8	Contract Administration				
8.1	Construction Administration	1	LS	\$750.00	\$750.00
8.2	Review of Submittals	1	LS	\$500.00	\$500.00
8.3	Labor Compliance	1	LS	\$750.00	\$750.00
8.4	Project Management	1	LS	\$1,000.00	\$1,000.00
				Sub Total:	\$3,000.00
SUBTOTAL ENGINEERS ESTIMATE (CONSTRUCTION)					\$698,422.80
CONSTRUCTION CONTINGENCY (20%) (CONSTRUCTION)					\$139,684.56
TOTAL PIPELINE CONSTRUCTION ESTIMATE AND CONTINGENCIES					\$838,107.36

BEAUMONT-CHERRY VALLEY WATER DISTRICT
REPLACEMENT PIPELINE CONSTRUCTION COST ESTIMATE
Replacement Pipeline 8 Project for Beaumont MDP Line 16

ITEM NO.	DESCRIPTION	QTY	UNIT	ENGINEER'S ESTIMATE	
				UNIT PRICE	TOTAL
1	Mobilization				
1.1	Mobilization	0	L.S.	\$3,700.00	\$0.00
1.2	Bonds/Insurance	0	L.S.	\$3,330.00	\$0.00
1.3	Schedule of Values	0	L.S.	\$925.00	\$0.00
1.4	Preliminary Project Schedule	0	L.S.	\$925.00	\$0.00
1.5	Demobilization	0	L.S.	\$2,312.50	\$0.00
				Sub Total:	\$0.00
2	Dust Control				
2.1	Dust Control	0	L.S.	\$2,500.00	\$0.00
				Sub Total:	\$0.00
3	SWPPP				
3.1	Erosion Control Plan	0	L.S.	\$1,000.00	\$0.00
3.2	Install Initial BMPS	0	L.S.	\$1,200.00	\$0.00
3.3	Maintain BMPS	0	L.S.	\$500.00	\$0.00
				Sub Total:	\$0.00
4	Traffic Control				
4.1	Implement Traffic Control	1	L.S.	\$1,500.00	\$1,500.00
				Sub Total:	\$1,500.00
5	Potable Water Pipeline				
5.1	8" Potable Water Pipeline (DIP) - Delivered and Offloaded	868	L.F.	\$ 29.70	\$25,779.60
5.2	Installation of District Furnished Pipeline, contractor furnished backfill and compaction	868	L.F.	\$ 95.00	\$82,460.00
5.5	Test, Disinfection and Cleanup	1	LS	\$ 2,500.00	\$2,500.00
5.6	Sand Material	179	CY	\$ 15.00	\$2,687.43
5.7	Excess Dirt Hauloff & Haulin	429	CY	\$ 5.00	\$2,143.21
5.8	Process Backfill Material	429	CY	\$ 5.00	\$2,143.21
5.10	8" Waterline Appurtenances (Material Only)	1	LS	\$ 5,060.00	\$5,060.00
5.11	6" Gate Valve Assembly and Appurtenances (Material Only)	1	LS	\$ 5,090.00	\$5,090.00
5.12	1" Domestic Service Assemblies and Appurtenances (Material Only)	1	LS	\$ 8,365.00	\$8,365.00
5.13	Install District furnished 1" Service assemblies	8	EA	\$ 1,600.00	\$12,800.00
5.14	Temporary Blowoff Assembly (Material Only)	1	LS	\$ 290.00	\$290.00
5.16	Connect to Existing Waterline	2	EA	\$ 3,500.00	\$7,000.00
5.17	Abandon in Place Existing Waterline	1	LS	\$ 2,500.00	\$2,500.00
				Sub Total:	\$158,800.00

BEAUMONT-CHERRY VALLEY WATER DISTRICT
REPLACEMENT PIPELINE CONSTRUCTION COST ESTIMATE
Replacement Pipeline 8 Project for Beaumont MDP Line 16

ITEM NO.	DESCRIPTION	QTY	UNIT	ENGINEER'S ESTIMATE	
				UNIT PRICE	TOTAL
6	Pavement Removal Repair and Replacement				
6.1	Temporary Pavement (as required at end of each day, contractor furnished)	868	LF	\$16.00	\$13,888.00
6.2	Furnish all Labor and Materials for 4" HMA and Min 6" Class II Base	868	LF	\$45.00	\$39,060.00
				Sub Total:	\$52,948.00
7	Field Inspection/Engineering Support				
7.1	Field Inspections	1	LS	\$2,000.00	\$2,000.00
7.2	Engineering Support	1	LS	\$700.00	\$700.00
				Sub Total:	\$2,700.00
8	Contract Administration				
8.1	Construction Administration	1	LS	\$750.00	\$750.00
8.2	Review of Submittals	1	LS	\$500.00	\$500.00
8.3	Labor Compliance	1	LS	\$750.00	\$750.00
8.4	Project Management	1	LS	\$1,000.00	\$1,000.00
				Sub Total:	\$3,000.00
SUBTOTAL ENGINEERS ESTIMATE (CONSTRUCTION)					\$218,948.00
CONSTRUCTION CONTINGENCY (20%) (CONSTRUCTION)					\$43,789.60
TOTAL PIPELINE CONSTRUCTION ESTIMATE AND CONTINGENCIES					\$262,737.60