

ADDENDUM NO. 1

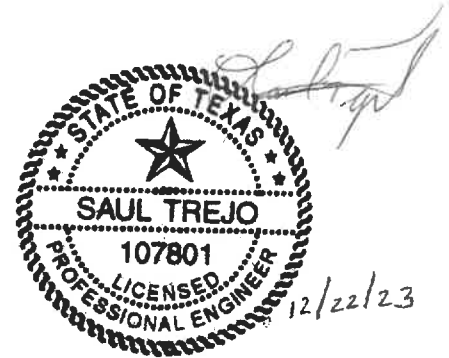
DECEMBER 22, 2023

LOWER VALLEY WATER DISTRICT

PANORAMA VILLAGE LIFT STATION 19 (PACKAGE 4)

BID No. 24-0105-01

**RECEIPT OF THIS ADDENDUM MUST BE
ACKNOWLEDGED IN WRITING TO LOWER VALLEY WATER DISTRICT**



Rosa Rivera
Purchasing Agent
Lower Valley Water District*

Saul Trejo, P.E.
Moreno Cardenas Inc.
Firm Registration No. F-000554

*The Purchasing Agent's signature certifies only that this document shall become part of the Contract Documents for this Project. Her signature is not a representation that the content of the document is technically correct.

I. BIDDING REQUIREMENTS, CONTRACT FORMS, AND CONDITIONS OF THE CONTRACT CLARIFICATION

1. The Bid Opening will be postponed until **January 12th, 2024**, at **3:00 p.m.** local time (MST). The deadline for questions will not be extended.
2. Technical Specification Section 01025 – Measurement and Payment to be **DELETED** and **REPLACED** in its entirety with **ATTACHMENT A**.

II. DESIGN DRAWINGS

1. Design Sheet “C1.2” was updated to reflect the corrected easement limits. Design Sheet “C1.2” sheet to be **DELETED** and **REPLACED** in its entirety with **ATTACHMENT B**.
2. Design Sheets “C3.0”, “C4.0”, “C8.0”, “C12.1”, “E3.0”, AND “E4.0” were changed to show the new area of the lift station concrete slab. Design Sheet “C3.0”, “C4.0”, “C8.0”, “C12.1”, “E3.0”, AND “E4.0” sheets are to be **DELETED** and **REPLACED** in their entirety with **ATTACHMENT B**.
3. Design Sheet “C8.3” was updated to correct the aerial background and update the stationing numbers. Design Sheet “C8.3” sheet to be **DELETED** and **REPLACED** in its entirety with **ATTACHMENT C**.

III. SUBMITTED QUESTIONS AND ANSWERS

1. On Sheet C9.0, Lift Station Note #5 indicates all piping in the valve vault shall be flanged ductile iron, but the material Key Notes on the lift station and valve vault list Sch10 316 stainless steel. Can you please verify the type of pipe to be used in the lift station wet well and valve vault?

Schedule 10 316 Stainless Steel shall be used for the lift station and valve vault.

2. Can you possibly provide a model and options required for the 2” air release valves in the wet well?

The 2” Air Release Valve shall be 802A ValMatic Wastewater Combination Air Valve – Single Body or approved equal.

3. Plan sheet C8.2 shows a sewer air relief valve in the profile view at STA 13+27.29. This is the same location as a 90 bend shown on the plan view. There is no bid item for a sewer air relief valve in the bid schedule. Can you please advise if this assembly is to be installed in the project and possibly add a bid item for the material? Can you please advise a size for the air relief valve and provide a specification for the requirements of the valve?

The location of the 2” combination air release valve (CARV) can be field adjusted to the high point along the forcemain. The 2” CARV will be paid under the bid item

END OF ADDENDUM NO. 1

ATTACHMENT A

SECTION 01025 – MEASUREMENT AND PAYMENT

SECTION 01025

MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.01 GENERAL

- A. The unit price or lump sum price bid on each item as stated in the Proposal shall include furnishing all labor, superintendence, incidentals, machinery, supplies, equipment and materials necessary to complete the various items of work in accordance with the Design drawings and Specifications. Cost of work or materials shown on the Design drawings, called for in the Specifications and on which no separate payment is made shall be included in the bid price on the various pay items for which they are associated.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

PART 4 MEASUREMENT AND PAYMENT

4.01 INSURANCE, BONDS, AND MOVE-IN RELATED EXPENSES (BID ITEM NO.1)

- A. Shall include all costs for Contractor's mobilization and demobilization, insurance and bond, construction permits and fees, job trailers, site administration expenses, and utilities to the job trailers including power, telephone, etc. Shall include all costs for contract closeout, site cleanup, and all costs associated with Contractor's demobilization from the site. Payment for mobilization and demobilization shall be on a Lump Sum basis as noted in the Bid Schedule. 15% of this item shall be retained until the Project is complete and the Contractor has completed his demobilization. Mobilization Bid Item shall be limited to five (5) percent of the total bid price.

4.02 PRECONSTRUCTION VIDEO (BID ITEM NO. 2)

- A. Prior to any construction and then following completion of construction, the Contractor shall video tape the project limits, in the presence of the Engineer or his representative. Two copies in DVD format shall be furnished to the Engineer prior to construction and shall include labels including project title, Bid No. and date recorded.
- B. This item shall be paid on a lump sum price.

4.03 TRENCH SAFETY SYSTEM (BID ITEM NO. 3)

- A. Compliance with all Trench Safety requirements in accordance with all applicable federal, state, and local rules and regulations and as specified herein. This item shall include design by a Professional Engineer in the state of Texas, furnishing and installation of all trench excavation safety protection system to be utilized on this project.
- B. Measurement of Trench Safety Systems shall be determined by the length along the center line of the installed pipe using horizontal stationing.
- C. Payment for Trench Safety Systems, measured as described above, shall be made at the unit price bid per linear foot of Trench Safety Systems. Payment of all work under this item shall

be full compensation for the Trench Safety Systems including any design, testing, inspection, or additional excavation and backfill required, for furnishing, placing, maintaining and removing all shoring, sheeting, caissons, or bracing, for required compaction, and for all other labor, materials, tools, equipment, and incidentals necessary to complete the Trench Safety System work.

- D. Shall be paid for on a Lump Sum basis and shall include preparation of a formal TCP by a Texas licensed professional engineer; submitting and obtaining approval of the formal TCP from the required governing agencies; furnishing, installing, and maintaining the approved TCP Plan complete for the duration of the project; implementing and maintaining the TCP in conformance to the specifications and principles given in the “Texas Manual on Uniform Traffic Control Devices” over the entire project area; and all other incidentals required for Contractor to complete, implement, and maintain the TCP requirements. All costs for this work shall be included in the Contractor’s lump sum price and shall be complete compensation for complete performance of this work.

4.04 TRAFFIC CONTROL PLAN (BID ITEM NO. 4)

- A. Measurement shall be paid for on a Lump Sum basis.
- B. This item shall include preparation of a formal TCP by a Texas licensed professional engineer; submitting and obtaining approval of the formal TCP from the required governing agencies; furnishing, installing, and maintaining the approved TCP Plan complete for the duration of the project; implementing and maintaining the TCP in conformance to the specifications and principles given in the “Texas Manual on Uniform Traffic Control Devices” over the entire project area; and all other incidentals required for Contractor to complete, implement, and maintain the TCP requirements. All costs for this work shall be included in the Contractor’s lump sum price and shall be complete compensation for complete performance of this work.

4.05 6-INCH PVC FORCEMAIN DR-18 (BID ITEM NO. 5)

- A. Measurement shall be the actual linear feet of pipe installed by open cut methods.
- B. Work under this item includes furnishing all labor, **2-inch combination air release valve**, new materials and equipment and performing all operations necessary to construct the sanitary sewer force main in conformance with plans and specs.
- C. Payment for force main shall be made at the unit.

4.06 8-INCH PVC SEWER PIPE SDR-35 (BID ITEMS NO. 6)

- A. Work under this item shall include all costs associated with coordination; excavation; disposal of excess material; backfilling and embedment; compaction and compaction testing for utilities; furnishing and laying the pipe joint assembly and accessories; testing; and all appurtenances defined herein to include, but not limited to the following items: locating, protecting, supporting, relocating (i.e. waterlines), if required, and repairing damage to any utilities or structures encountered in the process of the work (including, but not limited to: all fences, signs, foundations, utility service vaults, fire hydrants, walls, driveways, gravel surfacing, chip seal, pavement, vegetation, resident gas tanks, stairways, steps, decks, removal and replacement of concrete slab at 12801 Montana Avenue, etc.); temporary by-

pass where required; clearing and grubbing along sewer line alignment; leakage testing of the sewer line, connections to existing sewer system infrastructure, and all other items of the project not indicated as being covered under the other specific bid items shown on the Proposal. Such payment shall be complete compensation for the complete performance of the work in accordance with the drawings and the provisions of these specifications.

B. This item will be measured for payment by the linear foot.

4.07 48-INCH POLYMER SANITARY SEWER MANHOLES (BID ITEM NO. 7)

A. This item will be measured for payment by each.

B. Work under this item includes furnishing all labor, new materials and equipment and performing all operations necessary to construct the sanitary sewer manholes 6-feet or less in depth. Depth is defined as the distance from the top of the cast iron frame to the invert of the sewer. This includes any extra excavation, backfill, concrete base, concrete or brick walls, conical section, frame and cover, providing an external protective bituminous coating such as coal tar epoxy, interior epoxy coating, and any other facility or work necessary for the complete manhole. Testing and any stub-outs shown on the plans shall be paid under this item.

4.08 48-INCH POLYMER SANITARY SEWER MANHOLES ADDITIONAL VERTICAL DEPTH (BID ITEM NO. 8)

A. The additional depth of manhole risers shall be measured by the vertical foot as determined by measuring the total depth of a manhole from its base to the top of its frame and subtracting 6 feet from the total measured depth.

B. This item will be measured by vertical foot.

4.09 4-INCH SANITARY SEWER SERVICE (MAIN TO ROW) (BID ITEM NO. 9)

A. Measurement shall be per each service.

B. Stub-out to ROW line inclusive of appurtenances, complete in place.

4.10 4-INCH PRIVATE SERVICE CONNECTION (ROW TO HOUSE) (BID ITEM NO. 10)

A. Measurement shall be for each service connection furnished and completely installed and accepted by the Engineer.

B. Payment for service connections, service taps and related appurtenances shall be made at the unit price bid as stated in the Proposal and will be compensation in full for furnishing and installing the necessary materials and work as follows:

1. Base course, removals and replacements, excavation, service tee to the main, riser pipe as required, connection to existing resident sewer service lines, fittings as required, service lateral from the riser to the property line, slope leveling, horizontal and vertical location As-built records, plugs and/or caps, stakes, metallic marking tape, accepted HMA paving patch work, line marker, and any other work or

appurtenance as required for the successful installation as indicated on the Drawings and specified in these Specifications.

2. Service stub-outs shall be installed in accordance with the specifications and drawings.

4.11 DE-SEPTIC, PUMP HAUL, SAND, PERMITS (BID ITEM NO. 11)

- A. Work shall include complete removal of existing septic tanks and its content, including waste hauling, waste disposal, waste permitting process, fees, and approvals, septic tank excavation, backfill and compaction to original grade.
- B. Any and all decommissioning and hauling shall be approved by and meet all County of El Paso On-site Sewage/Environmental Department requirements. The County of El Paso approval fee of \$50 per septic tank decommission. Applications may be obtained from the County of El Paso On-site Sewage/Environmental Department located at 14612 Greg "C" in El Paso, Texas 79938.
- C. Payment of this item shall be based on a per each existing septic tank decommissioning. Work shall include furnishing all materials, labor, tools and incidentals and for performing all operations required to furnish to the Owner the project, complete in place, as specified in the drawings and specifications.

4.12 REMOVE AND REPLACE PAVEMENT AND INSTALL 2-IN (TYPE D) HMAC (BID ITEM NO. 16)

- A. Measurement shall be made on a square yard basis where the centerline of the pipeline is located within the pavement. Paving is to be removed and replaced with Cement Stabilized Backfill and HMAC per the Plans and Specifications and will be paid to the limits described therein.
- B. No extra payment for excess pavement cut and/or replacement shall be made without prior written approval by the Engineer. Payment will be made at the unit price bid and will be compensation in full for all removals and for furnishing and placing all material, labor, compaction, equipment, and incidentals necessary to complete the work in accordance with the Plans and these Specifications. Pavement replacement cost shall include saw cutting and re-stripping. Pavements damaged as a result of Contractor operations or as a result of the movement of Contractor equipment or vehicles shall be replaced to pre-existing conditions at Contractor expense.

4.13 LIFT STATION – (BID ITEM NO. 13 & 14)

- A. Measurement shall be paid for on a Lump Sum Basis.
- B. All work shall be per Contract Plan Sheets, including Structural, Electrical, and any other corresponding details as needed for the completion of a fully operational lift station. Included but not limited for providing excavation installation, pre-fabricated fiberglass wet well and valve vault, new piping, fittings, pumps, pump bases & anchors, header, valves, guide rails, safety grates, supports, grading, and paving, landscaping gravel, bollards, pavement, header curb, rock walls, foundations as shown on the plans, chain link fence, swing gate, odor control unit, access ladder, installing pumps, ponding area, control room, all

electrical and structural improvements, excluding items noted elsewhere on the bid form. Water for testing of the lift station shall be the responsibility of the contractor. All training for all lift station appurtenances shall be included under this item.

- C. Payment for this item shall be made at the stated lump sum price. Payment shall include all labor, equipment, fees, and any incidentals necessary for the completion of the work. Such payment shall be complete compensation for the complete performance of the work in accordance with the drawings and the provisions of the specifications.

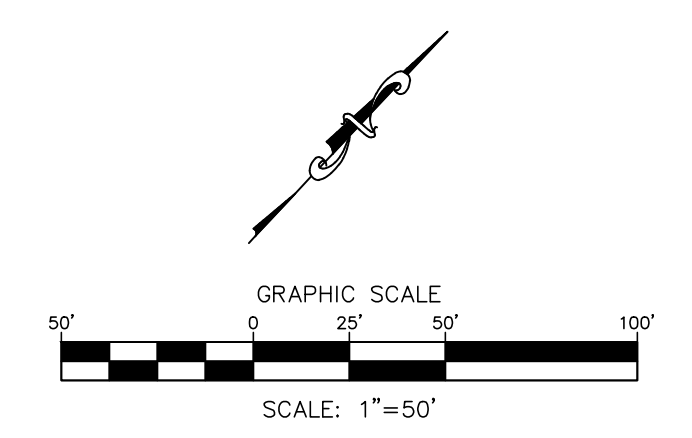
END OF SECTION

ATTACHMENT B

DESIGN PLANS



BORE LOCATION

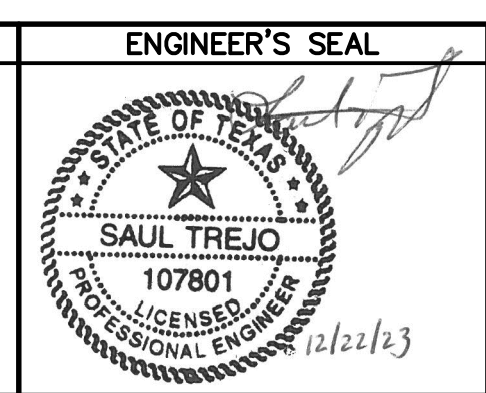


Filename: F:\1117 PACKAGE 4\DWG\C11 SEWER LINE INDEX SHEET.DWG
 Plot Date: 12/22/2023 11:36:32 AM By: Egoor, Cobos

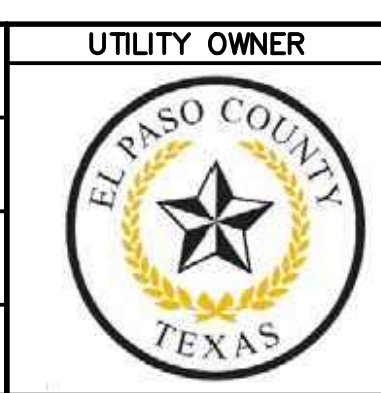
REV.	DATE	BY	DESCRIPTION
1	12/22/23	EC	REVISED EASEMENT LOCATION

**WARNING !
BEFORE YOU DIG**
CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING
EXISTING UTILITIES

ENGINEER'S NOTE
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY SAUL TREJO P.E. #107801 ON DECEMBER 1, 2023
ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.



DESIGNED S.T.
DRAWN E.C./I.P.
CHECKED B.J.K.
DATE 12-1-2023



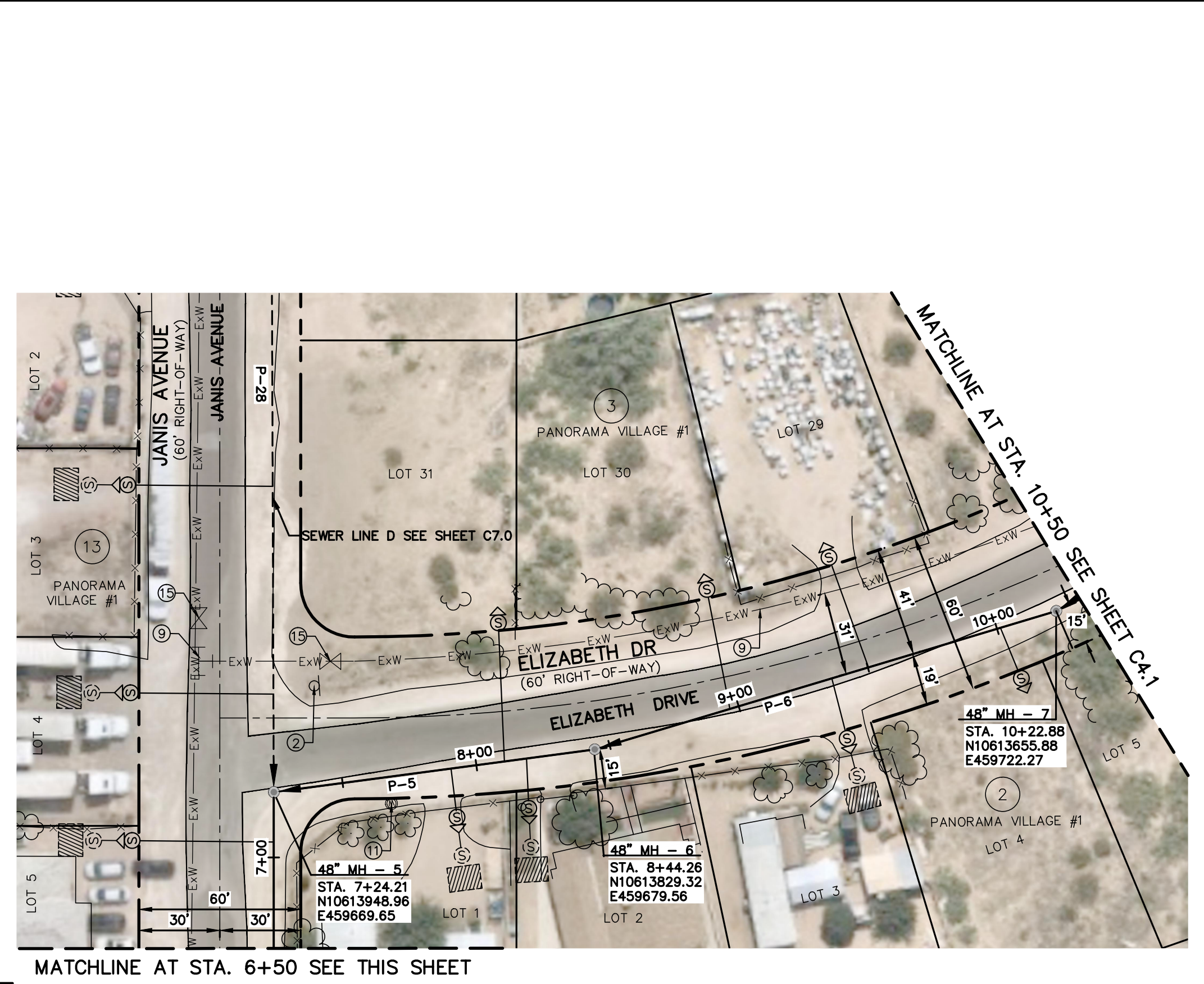
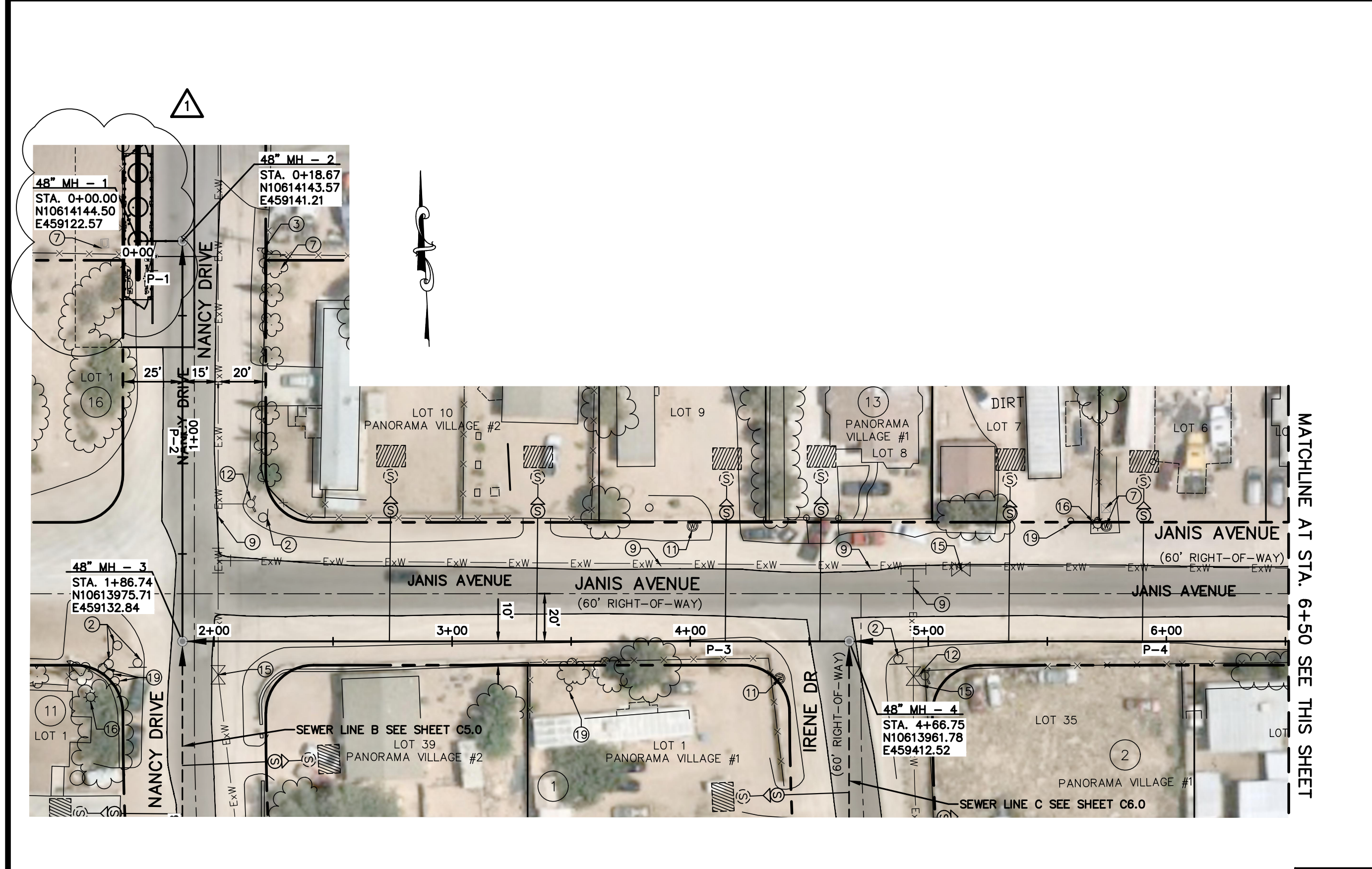
PROJECT PARTNER
Lower Valley WATER DISTRICT
1157 FM 1110
CLINT, TEXAS 79836
PH (915) 791-4480

CONSULTANT
PLANNING-ENGINEERING-PROJECT MANAGEMENT
MCi Moreno Cardenas Inc.
EL PASO SAN ANTONIO
2505 E. Missouri Ave. El Paso, TX 79903 (915) 532-2091
9601 McAllister Freeway #507, San Antonio, TX 78216 (210) 314-3553
Texas Board of Professional Engineers Registration No. F-000554

PROJECT: EL PASO COUNTY ARPA 1011 PROJECT (PACKAGE 4) PANORAMA VILLAGE LIFT STATION 19
SHEET TITLE: EASEMENT ACQUISITION

THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED SPECIFICALLY AND EXCLUSIVELY FOR THE DESIGN OF EL PASO COUNTY ARPA 1011 PROJECT (PACKAGE 4) PANORAMA VILLAGE LIFT STATION 19. MORENO CARDENAS INC. IS NOT RESPONSIBLE FOR THEIR USE ON ANY OTHER PROJECT OR APPLICATION.

JOB NO. 21-117
SHEET NUMBER C1.2



NOTE:
CONTRACTOR SHALL BE FAMILIAR WITH SITE CONDITIONS AS PART OF BID PREPARATION AND PROTECT/REPAIR AS REQUIRED TO COMPLETE SCOPE OF WORK.

ANYTHING IN THE PATH OF THE SEWER LINE INSTALLATION SHOULD BE REMOVED AND REPLACED AND THE AREA LEFT IN EQUAL OR BETTER CONDITION AS IT WAS BEFORE CONSTRUCTION STARTED. NO ADDITIONAL COMPENSATION SHALL BE CONSIDERED AND THE COST SHALL BE SUBSIDIARY TO THE SEWER LINE INSTALLATION.

ALL ITEMS SHOWN ARE APPROXIMATE LOCATIONS.

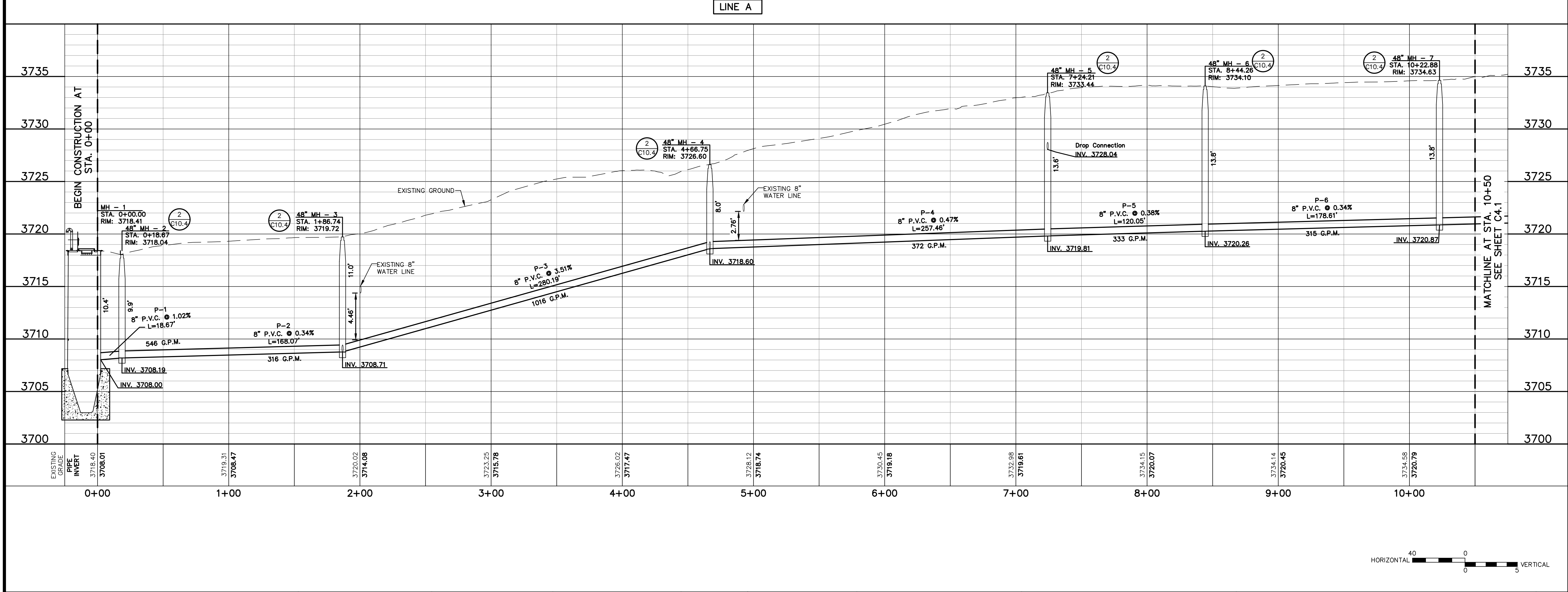
GENERAL SHEET NOTES:

- CONTRACTOR SHALL PROVIDE ACCESS TO OWNERS AT ALL TIMES DURING CONSTRUCTION.
- CONTRACTOR MUST FIELD VERIFY SERVICE CONNECTION WITH HOMEOWNER AND ENGINEER IN ADVANCE.
- CONTRACTOR TO PROTECT OR REMOVE AND REPLACE EXISTING FENCES/ROCKWALLS SURFACE FEATURES TO ORIGINAL OR BETTER CONDITION TO FACILITATE IMPROVEMENTS SHOWN HEREIN AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL MAINTAIN ALL WORK ACTIVITIES/STAGING TO APPROVED EASEMENTS AND STREET ROW IN ACCORDANCE WITH OWNER REQUIREMENTS AS SPECIFIED.
- WORK TO COMPLETE INSTALLATION OF EXTENSION OF SEWER SERVICE STUBOUTS SHALL INCLUDE RESTORATION OF EXISTING SURFACE FEATURES (I.E. FENCE, GATES, CONCRETE, TURF, ETC) TO ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL VERIFY LOCATION/DEPTH OF EXISTING UTILITIES INCLUDING SERVICES AND PROTECT THEM AT ALL TIMES THROUGHOUT CONSTRUCTION. IF NECESSARY DUE TO PROPOSED SEWER COLLECTOR INSTALLATION, CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTMENTS TO EXISTING UTILITIES TO AVOID CONFLICTS. AT NO ADDITIONAL COST TO OWNER.
- SERVICE STUBOUTS SHALL BE EXTENDED TO THE PROPERTY LINE/ROW AS SHOWN ON SHEET C11.5 DETAIL 2.
- RESTORE ALL LANDSCAPING TO ORIGINAL OR BETTER CONDITIONS. BIDDER ATTENTION TO MAXIMUM PAVEMENT REPLACEMENT LIMITS. ADDITIONAL REPLACEMENT DUE TO PAVEMENT DISTURBANCE DURING CONSTRUCTION SHALL BE PERFORMED AT NO ADDITIONAL COST TO OWNER.
- OWNER REFERENCES TO "ASPHALT PAVEMENT OR PAVEMENT" ARE INCLUSIVE OF HMA OR CHIP SEAL PAVEMENT. BIDDER ATTENTION TO MAXIMUM PAVEMENT REPLACEMENT LIMITS. ADDITIONAL REPLACEMENT DUE TO PAVEMENT DISTURBANCE DURING CONSTRUCTION SHALL BE PERFORMED AT NO ADDITIONAL COST TO OWNER.
- CONTRACTOR SHALL PROTECT EXISTING STREET SIGNALS, COMMUNICATION LINES, AND UNDERGROUND ELECTRIC. IF DAMAGED CONTRACTOR SHALL COORDINATE WITH CITY OF SOCCORRO TO REPLACE TO ORIGINAL OR BETTER CONDITION.
- CONTRACTOR MUST NOTIFY EPCWD 1 WEEK PRIOR TO MOBILIZING FOR ANY WORK WITHIN EPCWD RIGHT OF WAY.
- ALL WORK WITHIN EPCWD RIGHT OF WAY WILL BE PERFORMED DURING THE NON-IRRIGATION SEASON: TYPICALLY STARTING NOVEMBER 1 THROUGH FEBRUARY 15 OF THE FOLLOWING YEAR.
- DECOMMISSIONING OF SEPTIC SYSTEMS AND INSTALLATION OF NEW PRIVATE YARD PIPING SHALL CONFORM TO EL PASO COUNTY REQUIREMENTS AND FOLLOW THE LATEST PLUMBING CODE.

NOTE:

- YARD LINE SERVICE EXTENSION AND SEPTIC TANK DECOMMISSIONING SHALL BE DIRECTLY COORDINATED WITH PROPERTY OWNER.

SERVICE LOCATION DETAIL
SCALE: N.T.S.



- LEGEND**
- (1) PROTECT EXISTING UTILITY BOX
 - (2) PROTECT EXISTING SIGN
 - (3) PROTECT EXISTING MAILBOX
 - (4) PROTECT EXISTING POWER POLE
 - (5) PROTECT EXISTING GUY ANCHOR
 - (6) PROTECT EXISTING COMMUNICATION LINE
 - (7) PROTECT EXISTING TELEPHONE RISER
 - (8) PROTECT EXISTING SEWER LINE
 - (9) PROTECT EXISTING WATER LINE
 - (10) PROTECT EXISTING WATER SERVICE LINE
 - (11) PROTECT EXISTING WATER METER
 - (12) PROTECT EXISTING FIRE HYDRANT
 - (13) PROTECT EXISTING GAS LINE
 - (14) PROTECT EXISTING GAS METER/METERING
 - (15) PROTECT EXISTING WATER VALVE
 - (16) PROTECT EXISTING LIGHT POLE
 - (17) PROTECT STORM CULVERT
 - (18) PROTECT EXISTING COMMUNICATION MANHOLE
 - (19) PROTECT EXISTING BOLLARD
 - (20) PROTECT EXISTING TRAFFIC LIGHT
- LEGEND:**
- NEW SEWER LINE
 - NEW SEWER LINE ON ANOTHER SHEET (PLAN VIEW)
 - NEW FORCE MAIN ON ANOTHER SHEET (PLAN VIEW)
 - ⊙ NEW SEWER SERVICE
 - ⊙ NEW SEWER MANHOLE

REV.	DATE	BY	DESCRIPTION
1	12/22/23	EC	REVISED CONCRETE SLAB

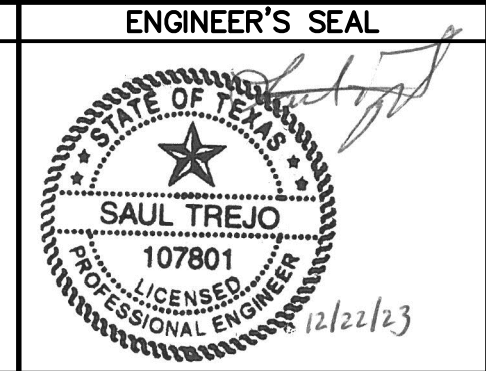
WARNING!
BEFORE YOU DIG

CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING
EXISTING UTILITIES

ENGINEER'S NOTE

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY SAUL TREJO P.E. #107801 ON DECEMBER 1, 2023

ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.



DESIGNED S.T.
DRAWN E.C./I.P.
CHECKED B.J.K.
DATE 12-1-2023



UTILITY OWNER

PROJECT PARTNER

Lower Valley WATER DISTRICT
1157 FM 1110
CLINT, TEXAS 79836
PH (915) 791-4480

CONSULTANT

PLANNING-ENGINEERING-PROJECT MANAGEMENT

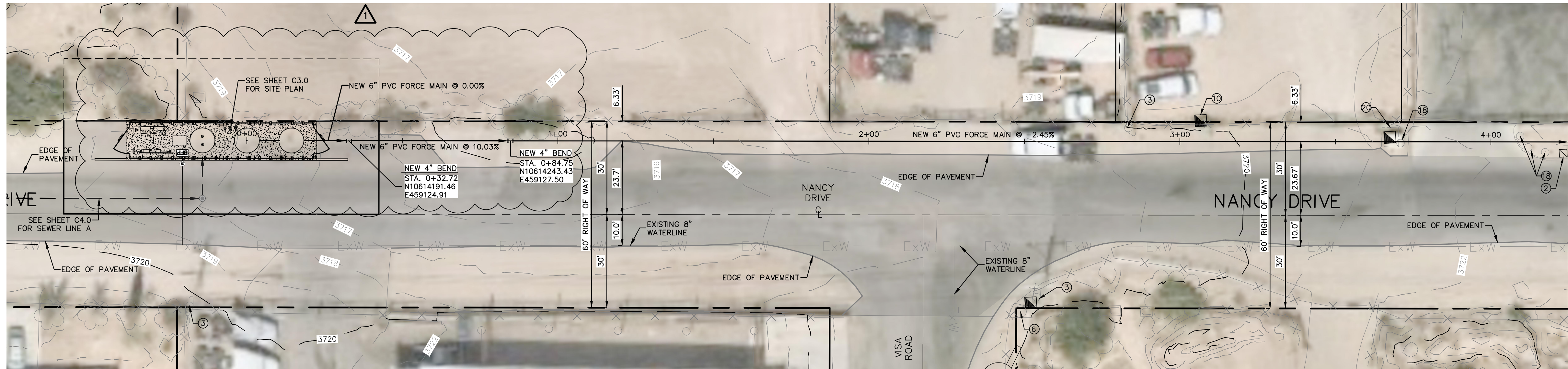
McI Moreno Cardenas Inc.
EL PASO SAN ANTONIO
2505 E. Missouri Ave. El Paso, TX 79903 (915) 532-2091
9601 McAllister Freeway #507, San Antonio, TX 78216 (210) 314-3553
Texas Board of Professional Engineers Registration No. F-000554

PROJECT: EL PASO COUNTY ARPA 1011 PROJECT (PACKAGE 4) PANORAMA VILLAGE LIFT STATION 19

SHEET TITLE: SEWER LINE A STA. 0+00 TO STA. 10+50

THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED SPECIFICALLY AND EXCLUSIVELY FOR THE DESIGN OF EL PASO COUNTY ARPA 1011 PROJECT (PACKAGE 4) PANORAMA VILLAGE LIFT STATION 19. MORENO CARDENAS INC. IS NOT RESPONSIBLE FOR THEIR USE ON ANY OTHER PROJECT OR APPLICATION.

JOB NO. 21-117
SHEET NUMBER C4.0



PLAN VIEW

MATCHLINE AT STA. 4+25
SEE NEXT SHEET

GENERAL SHEET NOTES:

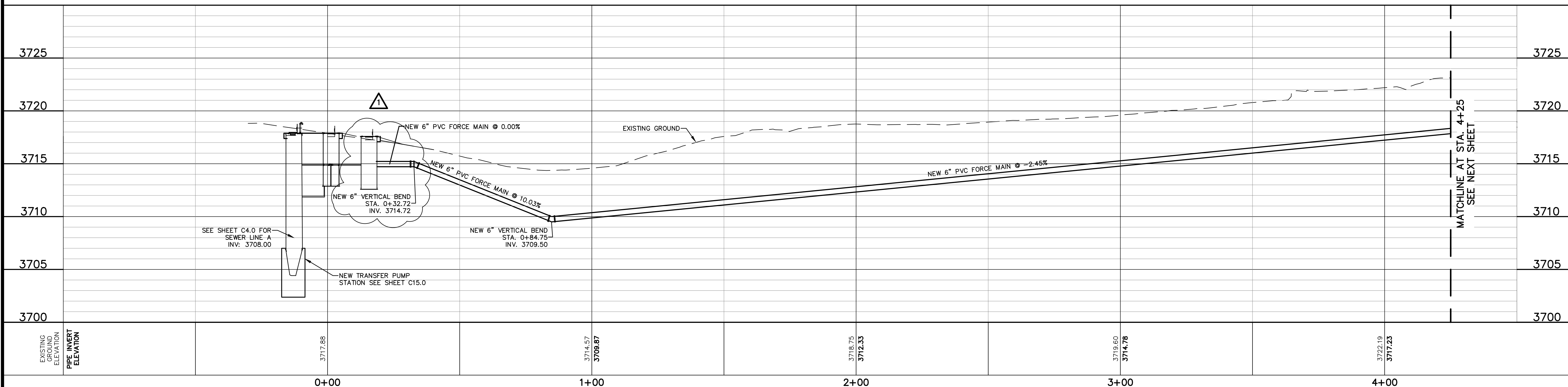
1. CONTRACTOR SHALL PROVIDE ACCESS TO OWNERS AT ALL TIMES DURING CONSTRUCTION.
2. CONTRACTOR MUST FIELD VERIFY SERVICE CONNECTION WITH HOMEOWNER AND ENGINEER IN ADVANCE.
3. CONTRACTOR TO PROTECT OR REMOVE AND REPLACE EXISTING FENCES/ROCKWALLS SURFACE FEATURES TO ORIGINAL OR BETTER CONDITION TO FACILITATE IMPROVEMENTS SHOWN HEREIN AT NO ADDITIONAL COST TO THE OWNER.
4. CONTRACTOR SHALL MAINTAIN ALL WORK ACTIVITIES/STAGING TO APPROVED EASEMENTS AND STREET ROW IN ACCORDANCE WITH OWNER REQUIREMENTS AS SPECIFIED.
5. WORK TO COMPLETE INSTALLATION OF EXTENSION OF SEWER SERVICE STUBOUTS SHALL INCLUDE RESTORATION OF EXISTING SURFACE FEATURES (I.E. FENCE, GATES, CONCRETE, TURF, ETC) TO ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE OWNER.
6. CONTRACTOR SHALL VERIFY LOCATION/DEPTH OF EXISTING UTILITIES INCLUDING SERVICES AND PROTECT THEM AT ALL TIMES THROUGHOUT CONSTRUCTION. IF NECESSARY DUE TO PROPOSED SEWER COLLECTOR INSTALLATION, CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTMENTS TO EXISTING UTILITIES TO AVOID CONFLICTS. AT NO ADDITIONAL COST TO OWNER.
7. SERVICE STUBOUTS SHALL BE EXTENDED TO THE PROPERTY LINE/ROW AS SHOWN ON SHEET C11.5 DETAIL 2.
8. RESTORE ALL LANDSCAPING TO ORIGINAL OR BETTER CONDITIONS. FOR SEWER COLLECTOR WORK WITHIN PROPOSED UTILITY EASEMENT, CONTRACTOR SHALL COORDINATE/SCHEDULE WORK TO MINIMIZE IMPACT TO EXISTING RESIDENTIAL OWNERS.
9. OWNER REFERENCES TO "ASPHALT PAVEMENT OR PAVEMENT" ARE INCLUSIVE OF HMA OR CHIP SEAL CONDITIONS. BIDDER ATTENTION TO MAXIMUM PAVEMENT REPLACEMENT LIMITS. ADDITIONAL REPLACEMENT DUE TO PAVEMENT DISTURBANCE DURING CONSTRUCTION SHALL BE PERFORMED AT NO ADDITIONAL COST TO OWNER.
10. CONTRACTOR SHALL PROTECT EXISTING STREET SIGNALS, COMMUNICATION LINES, AND UNDERGROUND ELECTRIC. IF DAMAGED CONTRACTOR SHALL COORDINATE WITH CITY OF SOCORRO TO REPLACE TO ORIGINAL OR BETTER CONDITION.
11. CONTRACTOR MUST NOTIFY EPCWD 1 WEEK PRIOR TO MOBILIZING FOR ANY WORK WITHIN EPCWD RIGHT OF WAY.
12. ALL WORK WITHIN EPCWD RIGHT OF WAY WILL BE PERFORMED DURING THE NON-IRRIGATION SEASON: TYPICALLY STARTING NOVEMBER 1 THROUGH FEBRUARY 15 OF THE FOLLOWING YEAR.
13. DECOMMISSIONING OF SEPTIC SYSTEMS AND INSTALLATION OF NEW PRIVATE YARD PIPING SHALL CONFORM TO EL PASO COUNTY REQUIREMENTS AND FOLLOW THE LATEST PLUMBING CODE.

LEGEND:

- (1) PROTECT EXISTING SIGN
- (2) PROTECT EXISTING MAILBOX
- (3) PROTECT EXISTING POWER POLE
- (4) PROTECT EXISTING GUY ANCHOR
- (5) PROTECT EXISTING COMMUNICATION LINE
- (6) PROTECT EXISTING TELEPHONE RISER
- (7) PROTECT EXISTING SEWER LINE
- (8) PROTECT EXISTING WATER LINE
- (9) PROTECT EXISTING WATER SERVICE LINE
- (10) PROTECT EXISTING WATER METER
- (11) PROTECT EXISTING FIRE HYDRANT
- (12) PROTECT EXISTING GAS LINE
- (13) PROTECT EXISTING GAS METER/METERING
- (14) PROTECT EXISTING WATER VALVE
- (15) PROTECT EXISTING LIGHT POLE
- (16) PROTECT STORM CULVERT
- (17) PROTECT EXISTING COMMUNICATION MANHOLE
- (18) PROTECT EXISTING BOLLARD
- (19) PROTECT EXISTING TRAFFIC LIGHT
- (20) PROTECT EXISTING AT&T BOX
- (21) PROTECT EXISTING UTILITY BOXES

LEGEND:

- ← 6" P.V.C. NEW FORCE MAIN (PLAN VIEW)
- 6" P.V.C. NEW 6" FORCE MAIN (PROFILE VIEW)
- ← NEW SEWER LINE ON ANOTHER SHEET (PLAN VIEW)
- (S) NEW SEWER SERVICE
- (M) NEW SEWER MANHOLE



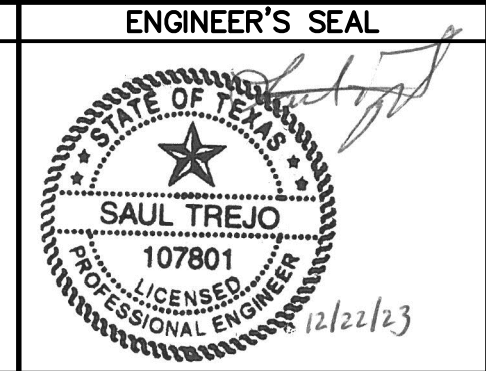
MATCHLINE AT STA. 4+25
SEE NEXT SHEET

EXISTING GROUND ELEVATION	PIPE INVERT ELEVATION	STATION	ELEVATION
		0+00	3717.88
		1+00	3714.57 3708.87
		2+00	3718.75 3712.33
		3+00	3719.60 3714.78
		4+00	3722.19 3717.23

REV.	DATE	BY	DESCRIPTION
1	12/22/23	EC	REVISED CONCRETE SLAB

WARNING!
BEFORE YOU DIG
CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING
EXISTING UTILITIES

ENGINEER'S NOTE
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY SAUL TREJO P.E. #107801 ON DECEMBER 1, 2023. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.



DESIGNED S.T.
DRAWN E.C./I.P.
CHECKED B.J.K.
DATE 12-1-2023



PROJECT PARTNER
Lower Valley Water District
1157 FM 1110
CLINT, TEXAS 79836
PH (915) 791-4480

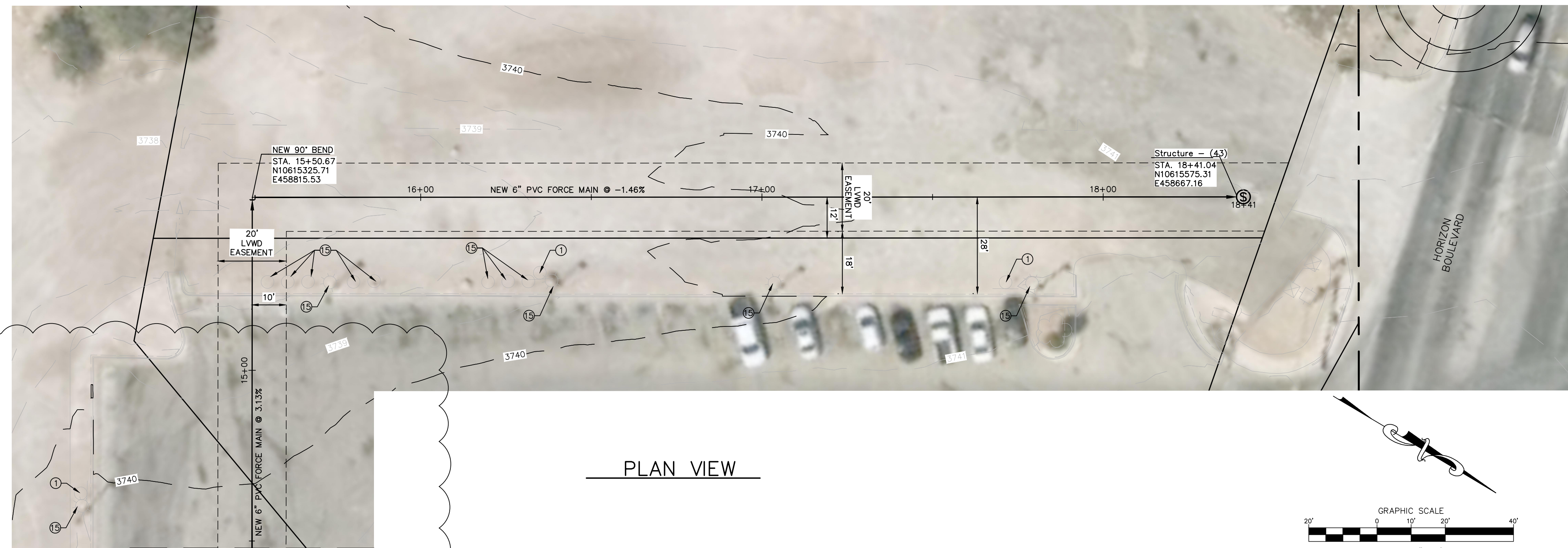
CONSULTANT
PLANNING-ENGINEERING-PROJECT MANAGEMENT
MCI Moreno Cardenas Inc.
EL PASO SAN ANTONIO
2505 E. Missouri Ave. El Paso, TX 79903 (915) 532-2091
9601 McAllister Freeway #507, San Antonio, TX 78216 (210) 314-3553
Texas Board of Professional Engineers Registration No. F-000554

PROJECT: EL PASO COUNTY ARPA 1011 PROJECT (PACKAGE 4) PANORAMA VILLAGE LIFT STATION 19
SHEET TITLE: FORCE MAIN PLAN AND PROFILE STA 0+00 - 4+25

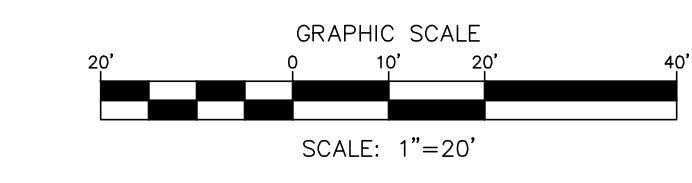
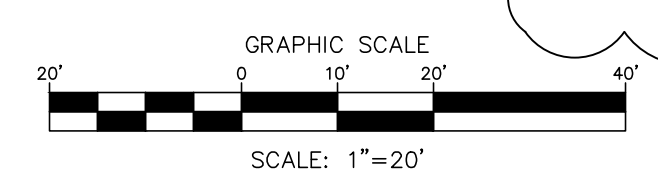
THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED SPECIFICALLY AND EXCLUSIVELY FOR THE DESIGN OF EL PASO COUNTY ARPA 1011 PROJECT (PACKAGE 4) PANORAMA VILLAGE LIFT STATION 19. MORENO CARDENAS INC. IS NOT RESPONSIBLE FOR THEIR USE ON ANY OTHER PROJECT OR APPLICATION.

JOB NO. 21-117
SHEET NUMBER C8.0

Filename: F:\1117 PACKAGE 4\DWG\CSL0.FORCE MAIN.PWP.DWG
Plot Date: 12/22/2023, 11:43:18 AM By: Egor, Cobos



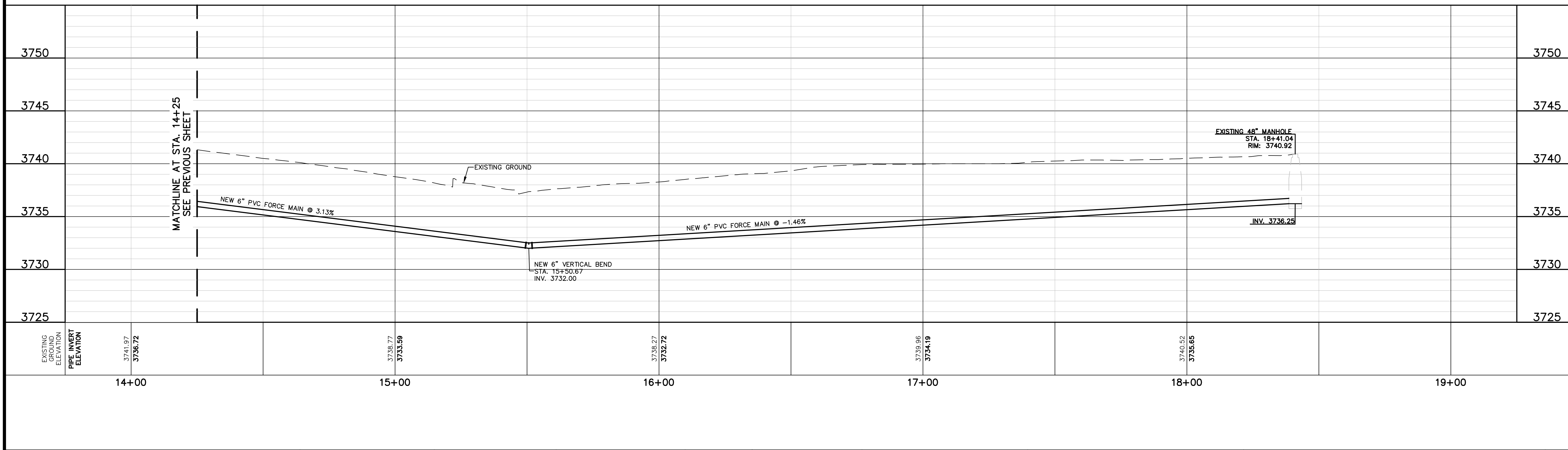
PLAN VIEW



- GENERAL SHEET NOTES:**
- CONTRACTOR SHALL PROVIDE ACCESS TO OWNERS AT ALL TIMES DURING CONSTRUCTION.
 - CONTRACTOR MUST FIELD VERIFY SERVICE CONNECTION WITH HOMEOWNER AND ENGINEER IN ADVANCE.
 - CONTRACTOR TO PROTECT OR REMOVE AND REPLACE EXISTING FENCES/ROCKWALLS SURFACE FEATURES TO ORIGINAL OR BETTER CONDITION TO FACILITATE IMPROVEMENTS SHOWN HEREIN AT NO ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR SHALL MAINTAIN ALL WORK ACTIVITIES/STAGING TO APPROVED EASEMENTS AND STREET ROW IN ACCORDANCE WITH OWNER REQUIREMENTS AS SPECIFIED.
 - WORK TO COMPLETE INSTALLATION OF EXTENSION OF SEWER SERVICE STUBOUTS SHALL INCLUDE RESTORATION OF EXISTING SURFACE FEATURES (I.E. FENCE, GATES, CONCRETE, TURF, ETC) TO ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR SHALL VERIFY LOCATION/DEPTH OF EXISTING UTILITIES INCLUDING SERVICES AND PROTECT THEM AT ALL TIMES THROUGHOUT CONSTRUCTION. IF NECESSARY DUE TO PROPOSED SEWER COLLECTOR INSTALLATION, CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTMENTS TO EXISTING UTILITIES TO AVOID CONFLICTS. AT NO ADDITIONAL COST TO OWNER.
 - SERVICE STUBOUTS SHALL BE EXTENDED TO THE PROPERTY LINE/ROW AS SHOWN ON SHEET C11.5 DETAIL 2.
 - RESTORE ALL LANDSCAPING TO ORIGINAL OR BETTER CONDITIONS. FOR SEWER COLLECTOR WORK WITHIN PROPOSED UTILITY EASEMENT, COORDINATE/SCHEDULE WORK TO MINIMIZE IMPACT TO EXISTING RESIDENTIAL OWNERS.
 - OWNER REFERENCES TO "ASPHALT PAVEMENT OR PAVEMENT" ARE INCLUSIVE OF HMAC OR CHIP SEAL CONDITIONS. BIDDER ATTENTION TO MAXIMUM PAVEMENT REPLACEMENT LIMITS. ADDITIONAL REPLACEMENT DUE TO PAVEMENT DISTURBANCE DURING CONSTRUCTION SHALL BE PERFORMED AT NO ADDITIONAL COST TO OWNER.
 - CONTRACTOR SHALL PROTECT EXISTING STREET SIGNALS, COMMUNICATION LINES, AND UNDERGROUND ELECTRIC. IF DAMAGED CONTRACTOR SHALL COORDINATE WITH CITY OF SOCCORRO TO REPLACE TO ORIGINAL OR BETTER CONDITION.
 - CONTRACTOR MUST NOTIFY EPCWD 1 WEEK PRIOR TO MOBILIZING FOR ANY WORK WITHIN EPCWD RIGHT OF WAY.
 - ALL WORK WITHIN EPCWD RIGHT OF WAY WILL BE PERFORMED DURING THE NON-IRRIGATION SEASON: TYPICALLY STARTING NOVEMBER 1 THROUGH FEBRUARY 15 OF THE FOLLOWING YEAR.
 - DECOMMISSIONING OF SEPTIC SYSTEMS AND INSTALLATION OF NEW PRIVATE YARD PIPING SHALL CONFORM TO EL PASO COUNTY REQUIREMENTS AND FOLLOW THE LATEST PLUMBING CODE.

- LEGEND:**
- (1) PROTECT EXISTING SIGN
 - (2) PROTECT EXISTING MAILBOX
 - (3) PROTECT EXISTING POWER POLE
 - (4) PROTECT EXISTING GUY ANCHOR
 - (5) PROTECT EXISTING COMMUNICATION LINE
 - (6) PROTECT EXISTING TELEPHONE RISER
 - (7) PROTECT EXISTING SEWER LINE
 - (8) PROTECT EXISTING WATER LINE
 - (9) PROTECT EXISTING WATER SERVICE LINE
 - (10) PROTECT EXISTING WATER METER
 - (11) PROTECT EXISTING FIRE HYDRANT
 - (12) PROTECT EXISTING GAS LINE
 - (13) PROTECT EXISTING GAS METER/METERING
 - (14) PROTECT EXISTING WATER VALVE
 - (15) PROTECT EXISTING LIGHT POLE
 - (16) PROTECT EXISTING GUY ANCHOR
 - (17) PROTECT EXISTING COMMUNICATION MANHOLE
 - (18) PROTECT EXISTING BOLLARD
 - (19) PROTECT EXISTING TRAFFIC LIGHT
 - (20) PROTECT EXISTING AT&T BOX
 - (21) PROTECT EXISTING UTILITY BOXES

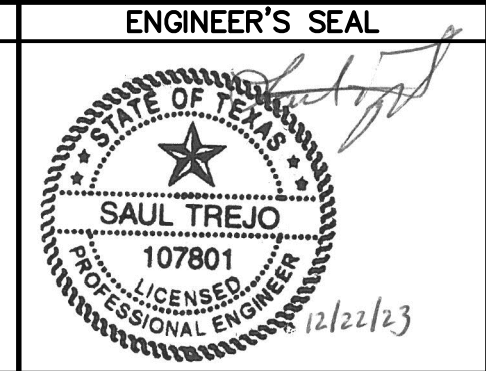
- LEGEND:**
- 6" P.V.C. NEW FORCE MAIN (PLAN VIEW)
 - 6" P.V.C. NEW 6" FORCE MAIN (PROFILE VIEW)
 - NEW SEWER LINE ON ANOTHER SHEET (PLAN VIEW)
 - NEW SEWER SERVICE
 - NEW SEWER MANHOLE



REV.	DATE	BY	DESCRIPTION
1	12/22/23	EC	AERIAL ADDED AND MODIFIED VIEWPORT

WARNING!
BEFORE YOU DIG
 CALL
 1-800-DIG-TESS
 1-800-344-8377
 FOR FIELD LOCATING
 EXISTING UTILITIES

ENGINEER'S NOTE
 THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY SAUL TREJO P.E. #107801 ON DECEMBER 1, 2023. ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.



DESIGNED S.T.
DRAWN E.C./I.P.
CHECKED B.J.K.
DATE 12-1-2023



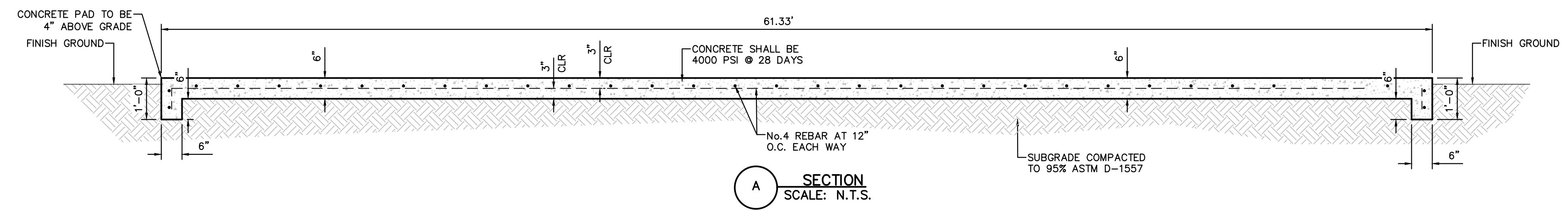
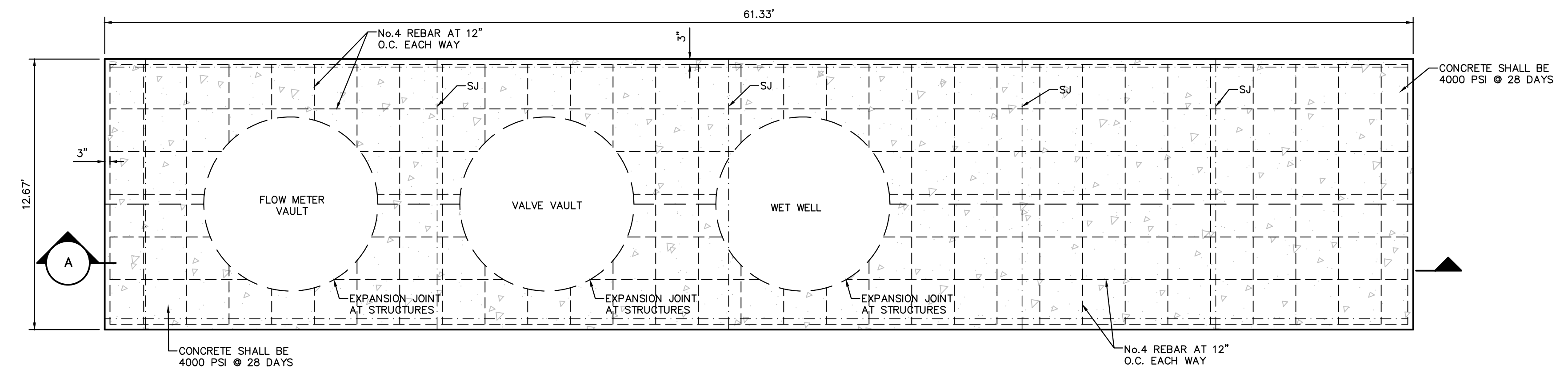
PROJECT PARTNER
Lower Valley WATER DISTRICT
 1157 FM 1110
 CLINT, TEXAS 79836
 PH (915) 791-4480

CONSULTANT
 PLANNING-ENGINEERING-PROJECT MANAGEMENT
MCI Moreno Cardenas Inc.
 EL PASO SAN ANTONIO
 2505 E. Missouri Ave. El Paso, TX 79903 (915) 532-2091
 9601 McAllister Freeway #507, San Antonio, TX 78216 (210) 314-3553
 Texas Board of Professional Engineers Registration No. F-000554

PROJECT: EL PASO COUNTY ARPA 1011 PROJECT (PACKAGE 4) PANORAMA VILLAGE LIFT STATION 19
SHEET TITLE: FORCE MAIN PLAN AND PROFILE STA 14+25 - 18+41.04

THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED SPECIFICALLY AND EXCLUSIVELY FOR THE DESIGN OF EL PASO COUNTY ARPA 1011 PROJECT (PACKAGE 4) PANORAMA VILLAGE LIFT STATION 19. MORENO CARDENAS INC. IS NOT RESPONSIBLE FOR THEIR USE ON ANY OTHER PROJECT OR APPLICATION.

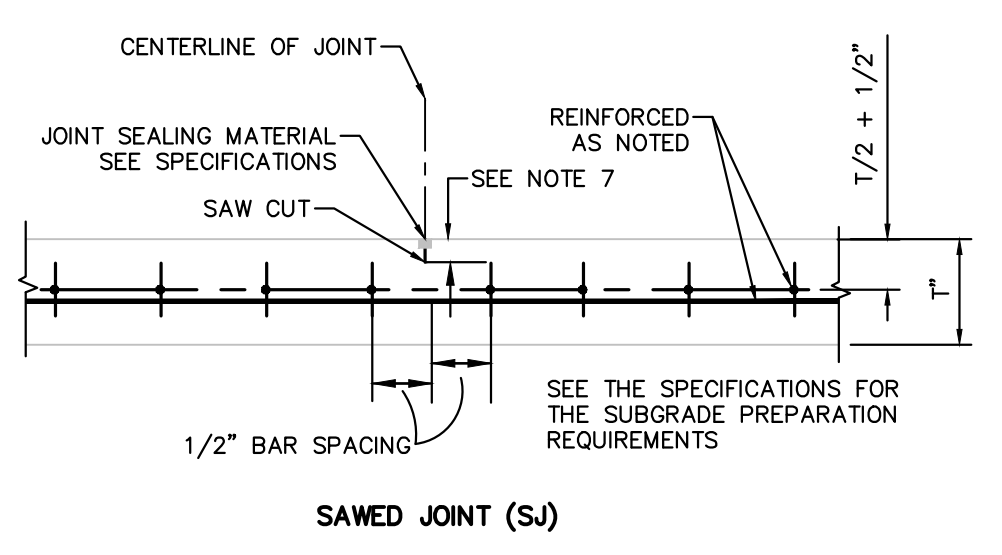
JOB NO. 21-117
SHEET NUMBER C8.3



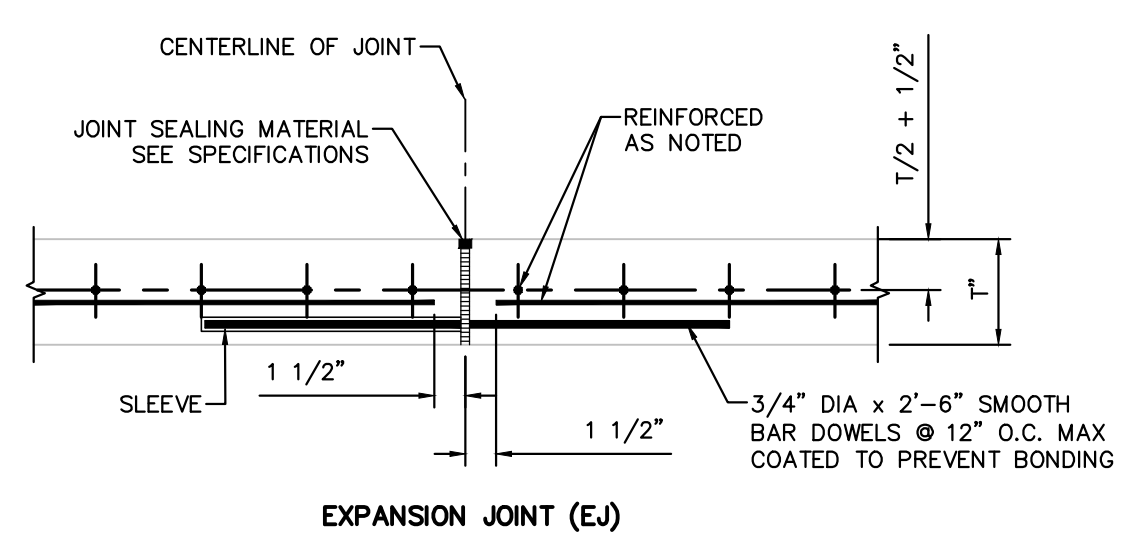
SECTION A
SCALE: N.T.S.

1 CONCRETE PAD
SCALE: 1" = 1/4"

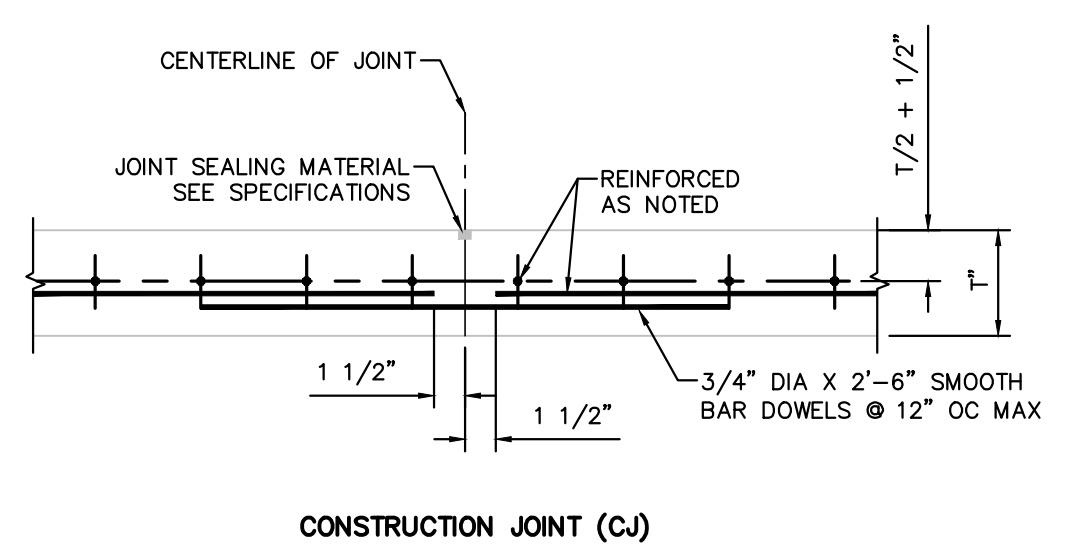
- GENERAL NOTES:**
- REFER TO THE SITE PLAN LAYOUT FOR THE JOINT LAYOUT PLAN. THE JOINT LAYOUT PLAN AND/OR DIRECTION OF PAVING IS NOT INTENDED TO BE RESTRICTIVE AND THE PAVING CONTRACTOR MAY PROPOSE AND SUBMIT FOR APPROVAL AN ALTERNATE PLAN THAT MAY BETTER SUIT THE PAVEMENT EQUIPMENT LIMITATIONS AND/OR HIS EXPERTISE. THE ONLY REQUIREMENT IS THAT THE PLAN LIMIT THE TOTAL NUMBER OF JOINTS AND THAT THE CONSTRUCTION, SAWCUT AND EXPANSION JOINT DETAILS BE AS SHOWN HEREIN.
 - ALL REINFORCED CONCRETE PAVING SHALL BE 6" THICK REINFORCED W/#4 @ 12" O.C.W ALL CONCRETE SHALL HAVE AN ULTIMATE COMPRESSIVE STRENGTH $F_c=4000$ PSI @ 28 DAYS.
 - SEE THE SPECIFICATIONS FOR THE SUBGRADE PREPARATION REQUIREMENTS.
 - ALL REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO ASTM A-615 OR ASTM A-996 (GRADE 60) AS NOTED IN THE SPECIFICATIONS.
 - FOR FURTHER INFORMATION REGARDING THE PLACEMENT OF CONCRETE AND REINFORCEMENT REFER TO THE GOVERNING SPECIFICATIONS FOR CONCRETE PAVEMENT.
 - THE LONGITUDINAL STEEL SHALL BE PLACED AT THE VERTICAL SLAB CENTER WITH A TOLERANCE OF 1/2 INCH TRANSVERSE STEER SHALL BE PLACED DIRECTLY ABOVE OR BELOW THE LONGITUDINAL STEEL.
 - THE SAW CUT DEPTH FOR THE LONGITUDINAL JOINT SHALL BE MINIMUM OF ONE THIRD THE SLAB THICKNESS. IT MAY BE MINIMUM OF ONE FOURTH THE SLAB THICKNESS WHEN CRUSHED LIMESTONE IS USED AS THE COARSE AGGREGATE.
 - SPLICES SHALL BE A MINIMUM OF 36 TIMES THE NOMINAL STEEL DIAMETER ("D").
 - VIBRATION WITH HAND-MANIPULATED MECHANICAL VIBRATORS WILL BE REQUIRED ADJACENT TO ALL JOINTS.
 - THE CHAIRS USED TO SUPPORT THE STEEL SHALL BE OF SUFFICIENT STRUCTURAL QUALITY AND NUMBER TO HOLD THE STEEL MAT WITHIN THE PLACEMENT HEIGHT TOLERANCES. CHAIRS SHALL BE OF A TYPE APPROVED BY THE ENGINEER.
 - WITH THE APPROVAL OF THE ENGINEER, MULTIPLE PIECE TIE BARS (THREADED COUPLING OR OTHER ADEQUATE DEVICE) MAY BE USED TO FACILITATE CONSTRUCTION PROVIDED THE SYSTEM DEVELOPS A FORCE EQUAL TO 1-1/2 TIMES THE MINIMUM YIELD STRENGTH OF THE BARS SHOWN. THE SPACING FOR THE SYSTEM SHALL BE LESS THAN OR EQUAL TO THAT OF THE TIE BAR SHOWN.
 - JOINT GROOVE AND SEAL DETAILS SHALL BE SHOWN.
 - THE REINFORCEMENT STEEL SPACING SHALL NOT VARY MORE THAN ONE-TWELFTH OF THE SPACING SHOWN HEREON.



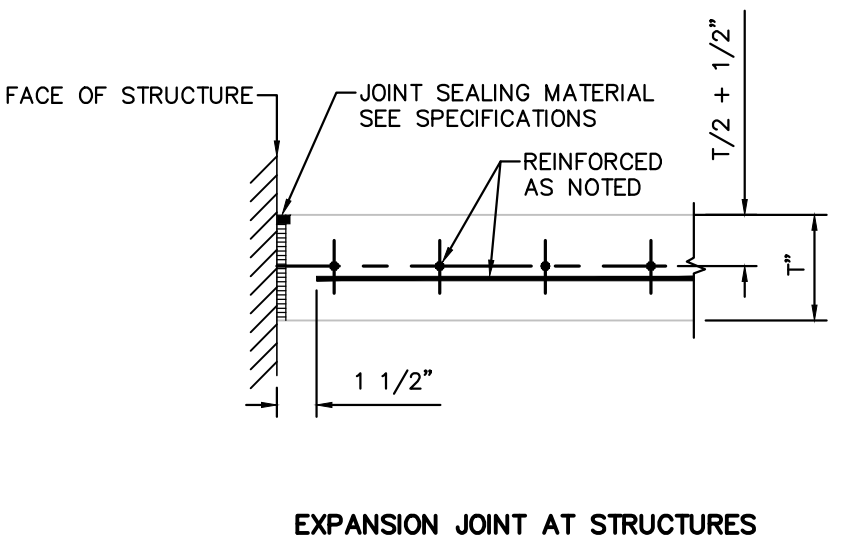
SAWED JOINT (Sj)



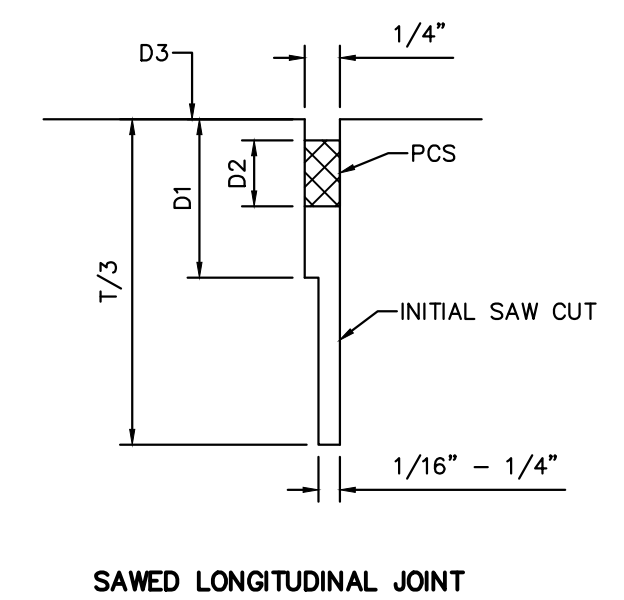
EXPANSION JOINT (Ej)



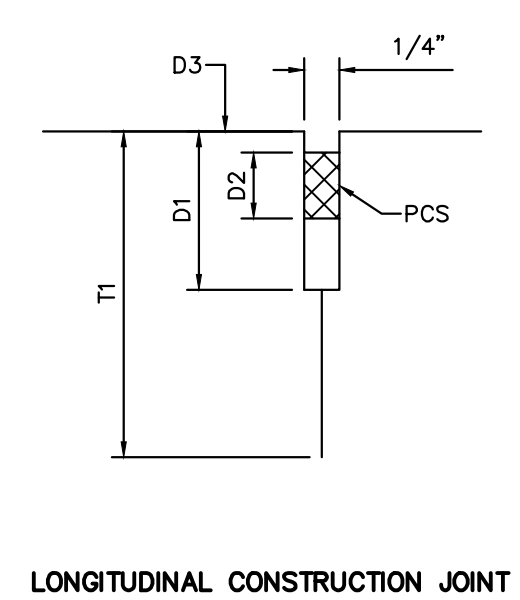
CONSTRUCTION JOINT (Cj)



EXPANSION JOINT AT STRUCTURES

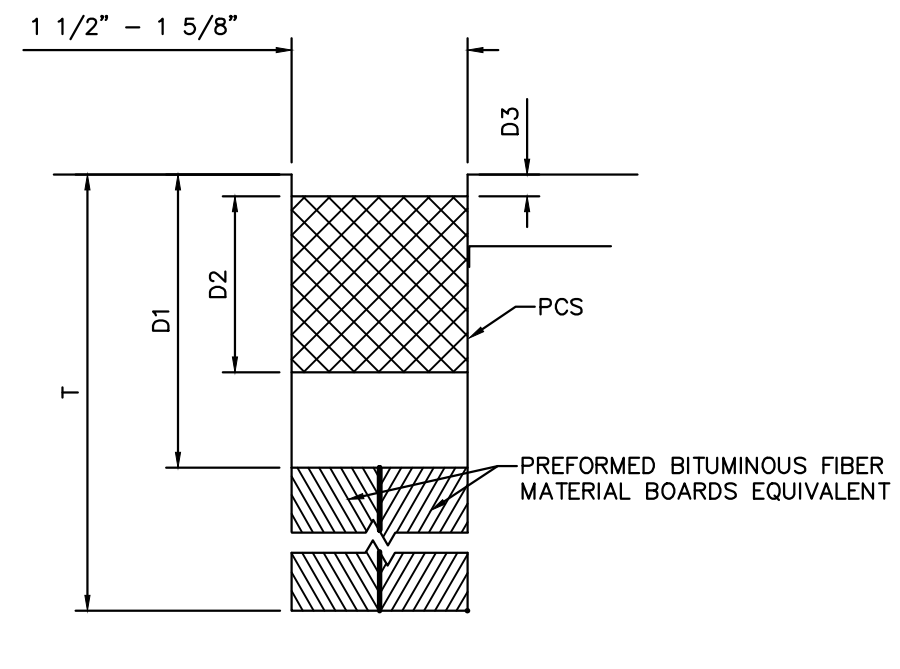


SAWED LONGITUDINAL JOINT

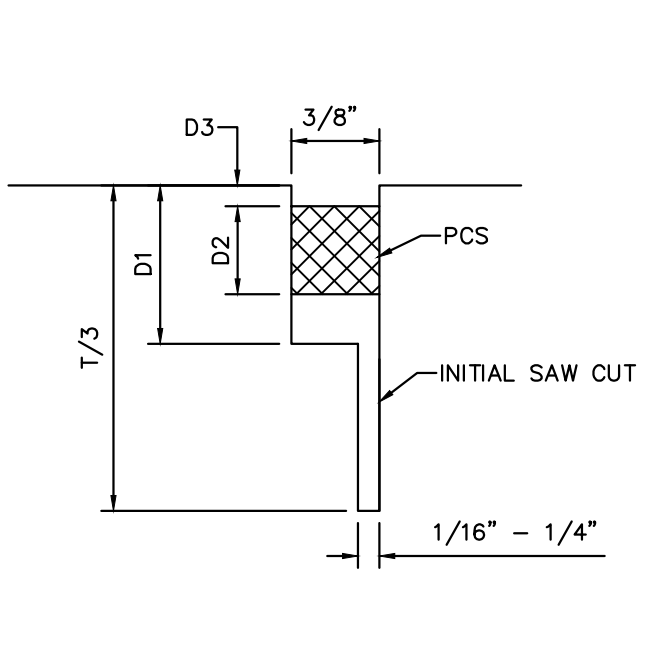


LONGITUDINAL CONSTRUCTION JOINT

LONGITUDINAL JOINT SEALS



FORMED EXPANSION JOINT



SAWED CONTRACTION JOINT

TRANSVERSE JOINT SEALS

PREFORMED COMPRESSION SEALS (PCS)
(CLASS 6 PREFORMED JOINT SEALANT)

3 REINFORCED CONCRETE PAVEMENT ONE LAYER STEEL BAR REPLACEMENT
SCALE: 1" = 1/4"

GENERAL NOTES:

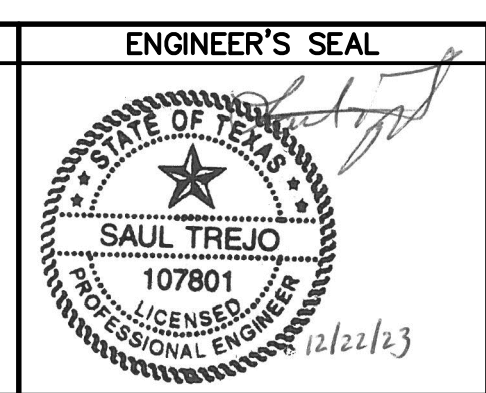
- THE LOCATION OF JOINTS SHALL BE AS SHOWN IN THE PLANS.
- DIMENSIONS D1, D2, AND D3 SHALL BE IN ACCORDANCE WITH THE PREFORMED COMPRESSION SEAL MANUFACTURERS RECOMMENDATION.
- THE JOINT RESERVOIR FOR SEALANT SHALL BE SAWS UNLESS OTHERWISE SHOWN ON THE PLANS FOR THE LONGITUDINAL AND TRANSVERSE CONSTRUCTION AND THE TWO SAWS JOINTS.
- THE JOINTS SHALL BE CLEANED IN ACCORDANCE WITH ITEM 428 OF THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND BRIDGES, 2004. PRIOR TO BEGINNING OPERATIONS, THE CONTRACTOR SHALL SUBMIT A STATEMENT FROM THE SEALANT MANUFACTURER SHOWING THE RECOMMENDED EQUIPMENT AND INSTALLATION PROCEDURES TO BE USED.
- THE SAW-CUT FOR THE LONGITUDINAL JOINT SHALL BE ONE-FOURTH (1/4) THE SLAB WHEN CRUSHED LIMESTONE IS USED AS THE COARSE AGGREGATE.

2 JOINT DETAILS
SCALE: 1" = 1/4"

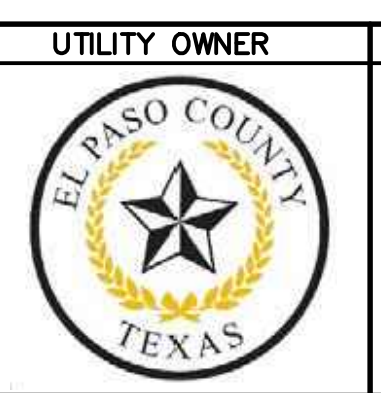
1	12/22/23	EC	CONCRETE SLAB DETAIL ADDED
REV.	DATE	BY	DESCRIPTION

WARNING!
BEFORE YOU DIG
CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING
EXISTING UTILITIES

ENGINEER'S NOTE
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY SAUL TREJO P.E. #107801 ON DECEMBER 1, 2023
ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT.



DESIGNED S.T.
DRAWN E.C./I.P.
CHECKED B.J.K.
DATE 12-1-2023



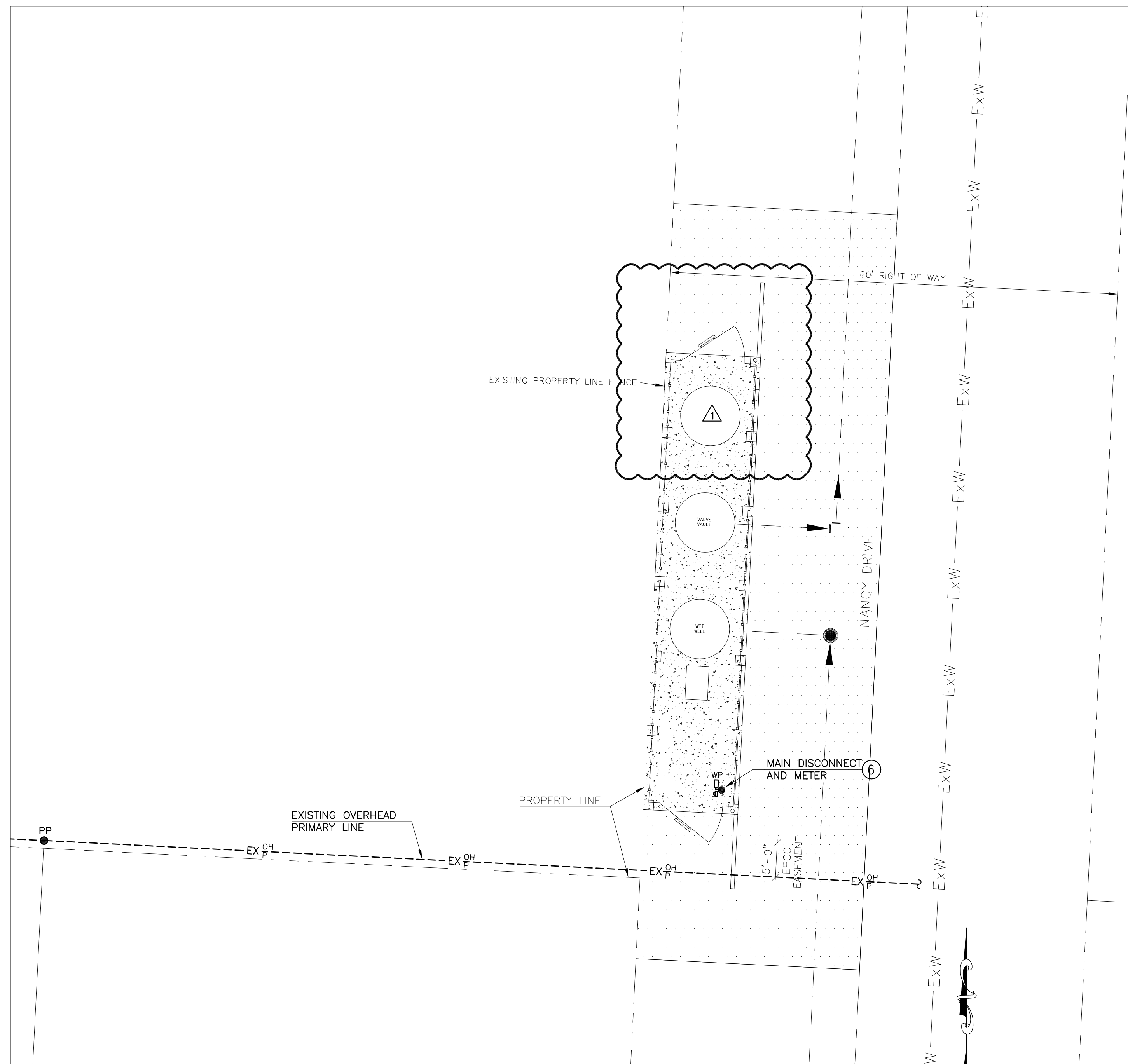
PROJECT PARTNER
Lower Valley WATER DISTRICT
1157 FM 1110
CLINT, TEXAS 79836
PH (915) 791-4480

CONSULTANT
PLANNING-ENGINEERING-PROJECT MANAGEMENT
McI Moreno Cardenas Inc.
EL PASO SAN ANTONIO
2505 E. Missouri Ave. El Paso, TX 79903 (915) 532-2091
9601 McAllister Freeway #507, San Antonio, TX 78216 (210) 314-3553
Texas Board of Professional Engineers Registration No. F-000554

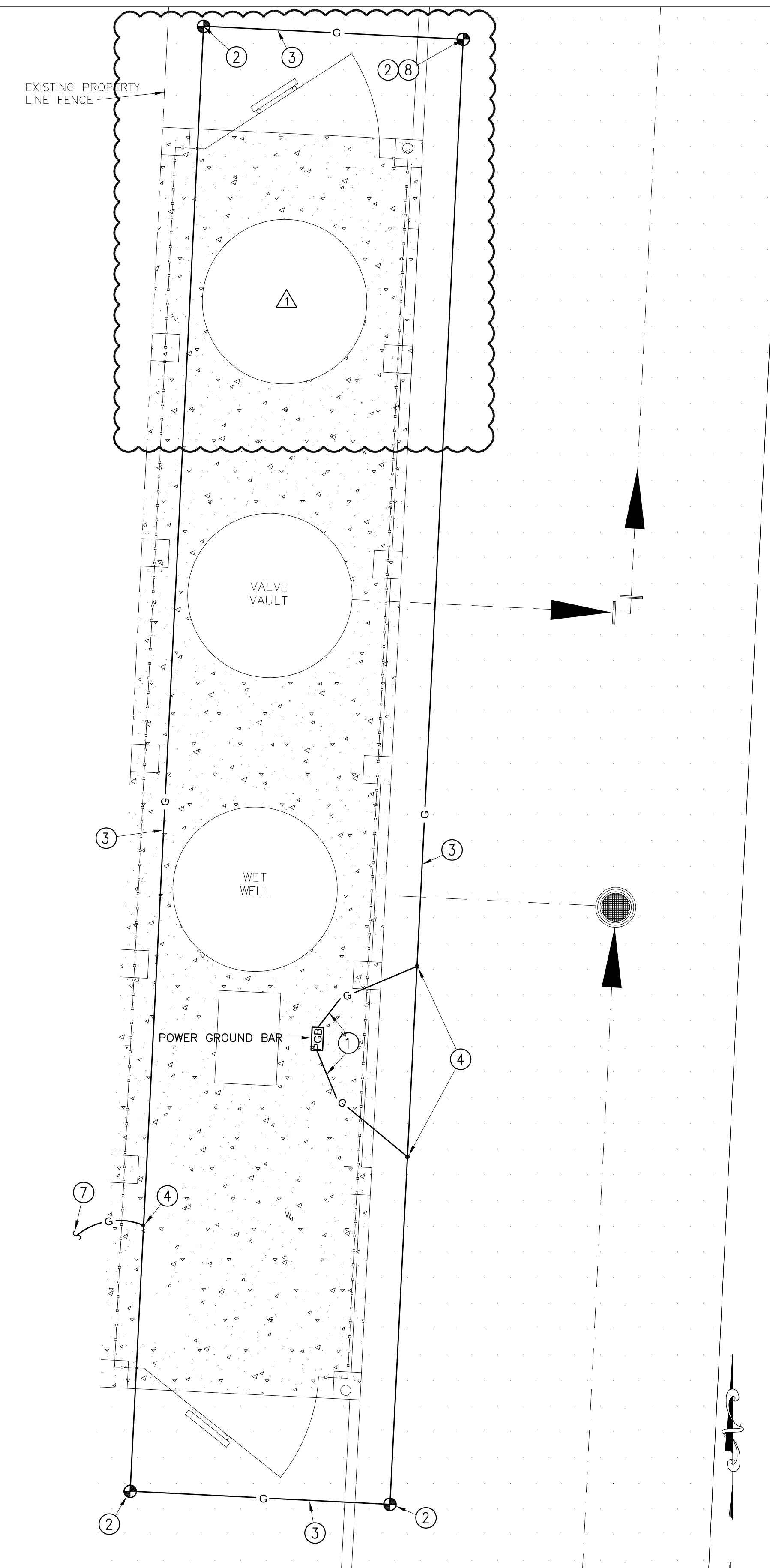
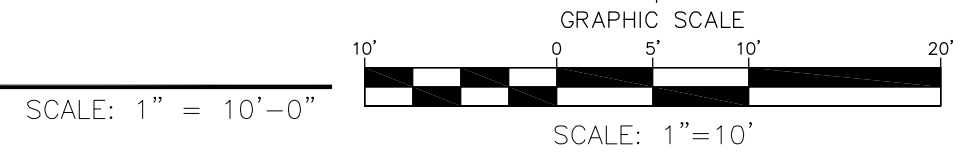
PROJECT: EL PASO COUNTY ARPA 1011 PROJECT
(PACKAGE 4)
PANORAMA VILLAGE LIFT STATION 19
SHEET TITLE: REINFORCED CONCRETE SLAB

THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED SPECIFICALLY AND EXCLUSIVELY FOR THE DESIGN OF EL PASO COUNTY ARPA 1011 PROJECT (PACKAGE 4) PANORAMA VILLAGE LIFT STATION 19. MORENO CARDENAS INC. IS NOT RESPONSIBLE FOR THEIR USE ON ANY OTHER PROJECT OR APPLICATION.

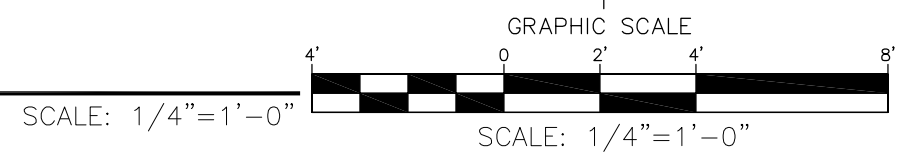
JOB NO. 21-117
SHEET NUMBER C12.1



ELECTRICAL SITE PLAN
NORTH



GROUNDING GRID PLAN
NORTH

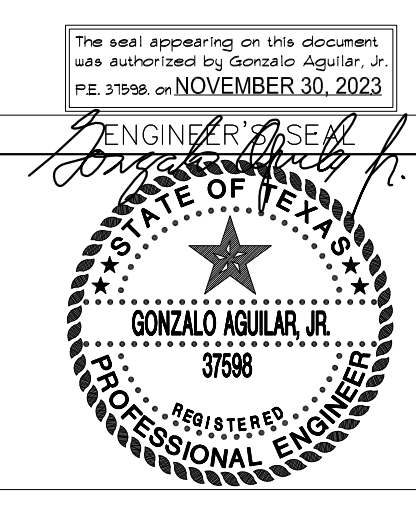


- KEYED NOTES: THIS SHEET ONLY**
- ① #2/0 IN 3/4" C.
 - ② 3/4"x10' COPPER CLAD GROUND ROD WITH TOP 12" BELOW FINISHED GRADE.
 - ③ #4/0 STRANDED BARE SOFT DRAWN COPPER AT 24" BELOW FINISHED GRADE.
 - ④ EXOTHERMIC CADWELD CONNECTION.
 - ⑤ SEE EQUIPMENT LAYOUT PLAN AND POWER RISER DIAGRAM FOR ADDITIONAL INFORMATION.
 - ⑥ SEE POWER RISER DIAGRAM ON SHEET E5.0.
 - ⑦ #1/0 IN 3/4" C. EXTEND TO GROUND ROD FOR ANTENNA.
 - ⑧ PROVIDE TEST WELL PER DETAIL ON SHEET E1.0.

REV.	DATE	BY	DESCRIPTION
1	12/22/23	G.A.	MODIFIED CONCRETE SLAB

WARNING!
BEFORE YOU DIG
CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING
EXISTING UTILITIES

ENGINEER'S NOTE
GONZALO AGUILAR
PROFESSIONAL ENGINEER, INC.
REGISTRATION NUMBER: F-4190
401 B N. REISLER
PHONE: (915) 581-5622
FAX: (915) 581-2824
email: gonzalez@aol.com



DESIGNED G.A.
DRAWN A.M./J.M.S.
CHECKED G.A.
DATE NOVEMBER-2023

UTILITY OWNER

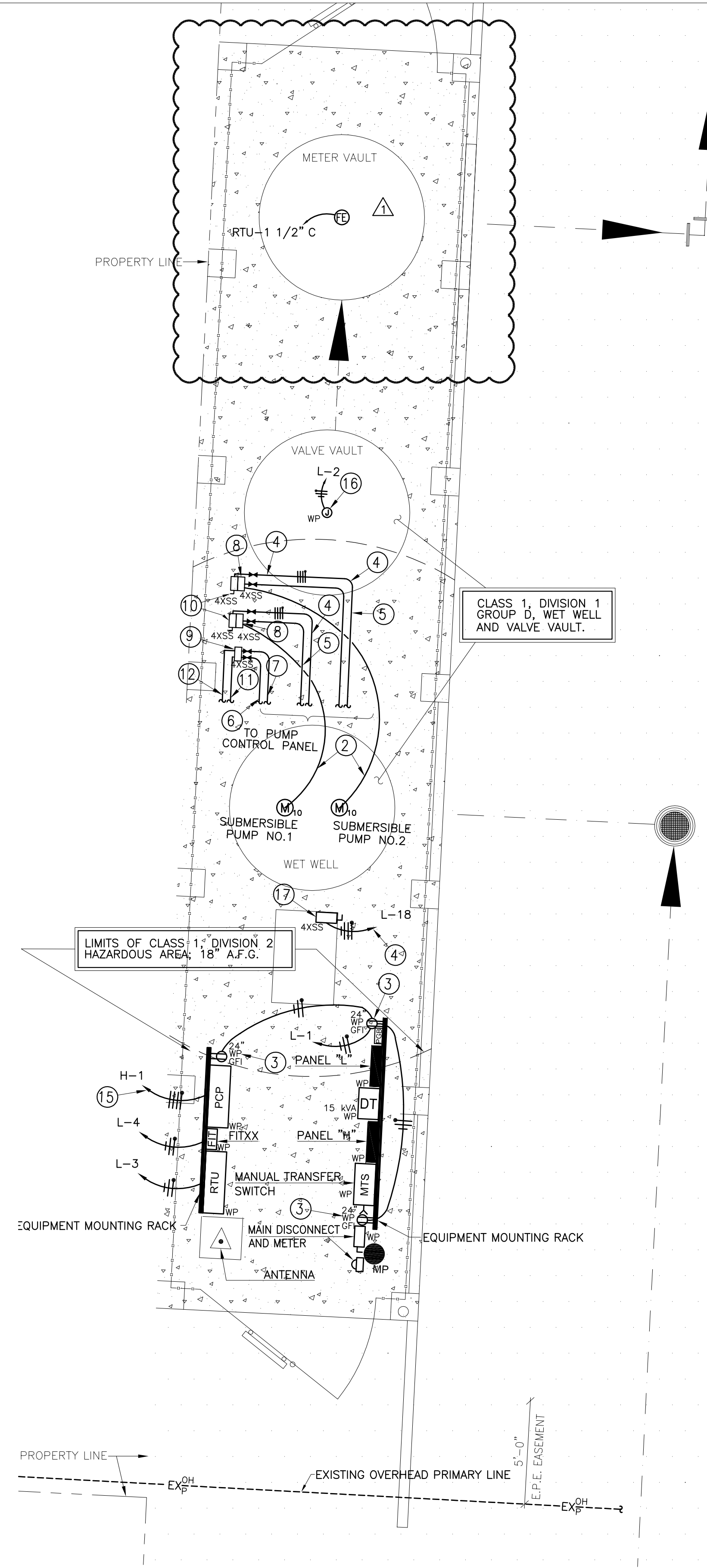
PROJECT PARTNER
Lower Valley Water District
1157 FM 1110
CLINT, TEXAS 79836
PH (915) 791-4480

CONSULTANT
PLANNING-ENGINEERING-PROJECT MANAGEMENT
MCI Moreno Cardenas Inc.
EL PASO SAN ANTONIO
2505 E. Missouri Ave., El Paso, TX 79903 (915) 532-2091
9601 McAllister Freeway #507, San Antonio TX 78216 (210) 314-3553
Texas Board of Professional Engineers Registration No. F-000554

PROJECT: EL PASO COUNTY ARPA 1010 PROJECT (PACKAGE 4) PANORAMA VILLAGE
SHEET TITLE: ELECTRICAL SITE PLAN & GROUNDING GRID PLAN

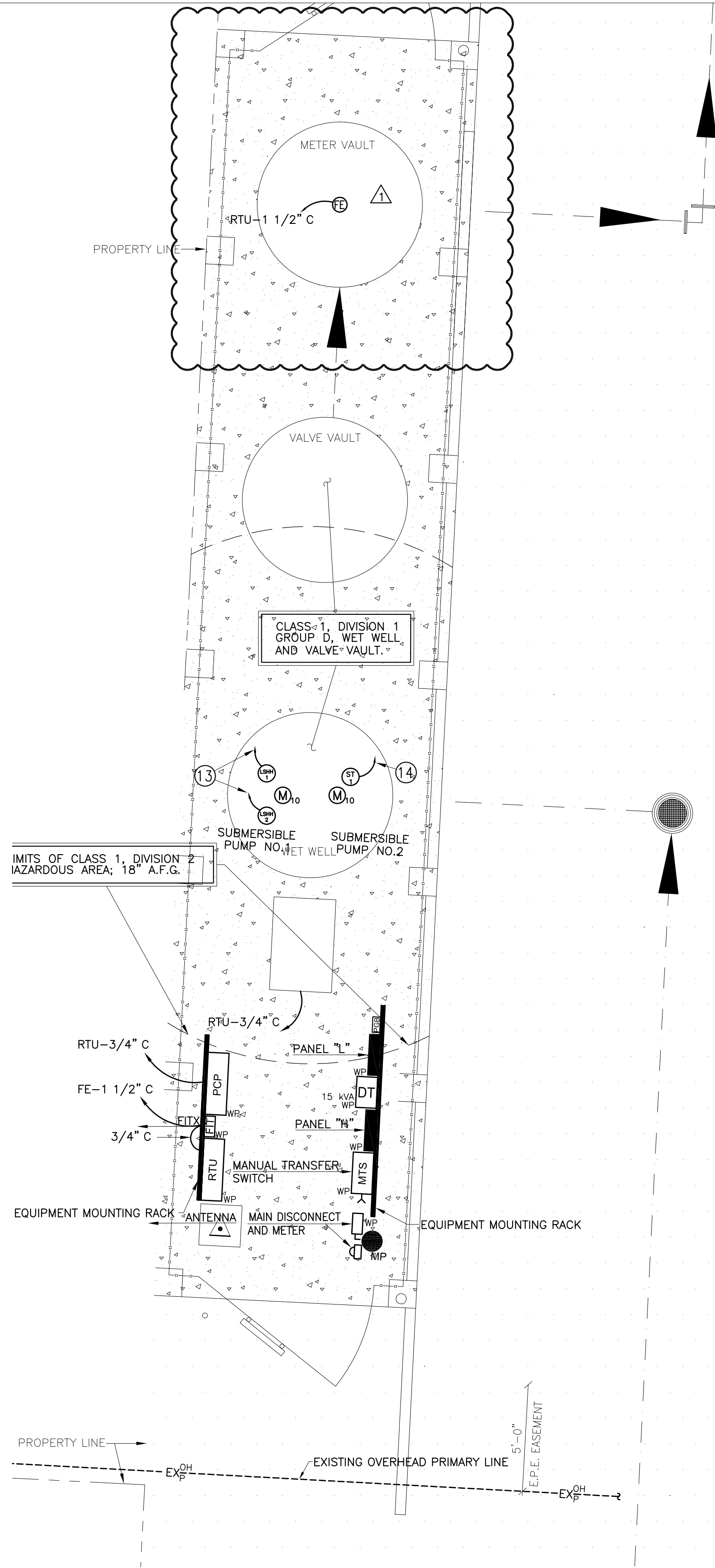
THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED SPECIFICALLY AND EXCLUSIVELY FOR THE DESIGN OF
***EL PASO COUNTY ARPA 1010 PROJECT (PACKAGE 4) PANORAMA VILLAGE**
MORENO CARDENAS INC. IS NOT RESPONSIBLE FOR THEIR USE ON ANY OTHER PROJECT OR APPLICATION.

JOB NO. 21-117
3 SHEET NUMBER 8
E3.0



POWER AND CONTROLS PLAN 1
NORTH

NANCY DRIVE



EQUIPMENT LAYOUT PLAN 1
NORTH

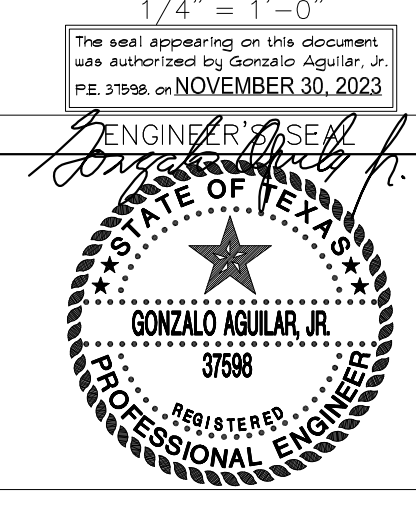
NANCY DRIVE

- KEYED NOTES: THIS SHEET ONLY**
- 1 SEE POWER RISER DIAGRAM FOR CONNECTION AND INTERPHASING DETAILS.
 - 2 SUBMERSIBLE CABLE FURNISHED WITH SUBMERSIBLE PUMP. EXTEND TO TERMINAL CABINET. INSTALL IN 2 1/2" C FROM WET WELL TO TERMINAL BOX.
 - 3 PROVIDE IN-USE TYPE WP COVER RATED FOR EXTRA-DUTY APPLICATIONS AND WET LOCATIONS.
 - 4 3#10, 1#10 GND IN 3/4" C.
 - 5 1" C WITH THE FOLLOWING TWISTED PAIR CABLES:
a) PUMP COMMON ALARM.
b) COMMUNICATIONS.
 - 6 1" C WITH THE FOLLOWING CONDUCTORS:
a) 3#14 FOR FLOAT SWITCH HIGH LEVEL ALARM (LSHH1).
b) 3#14 FOR FLOAT SWITCH HIGH LEVEL ALARM (LSHH2).
 - 7 1" C WITH SUBMERSIBLE TRANSDUCER CABLE (ST).
 - 8 PUMP SUBMERSIBLE CABLE TERMINAL BOX. SEE WIRING DETAIL ON SHEET E7.0.
 - 9 FLOAT SWITCH AND SUBMERSIBLE TRANSDUCER TERMINAL BOX. SEE WIRING DETAIL ON SHEET E7.0.
 - 10 480 VOLTS, 3P, 30 AMPS, NONFUSIBLE, NEMA 4XSS ENCLOSURE WITH GROUND LUG, HORSEPOWER RATED.
 - 11 1 1/2" C WITH CABLES (2) FURNISHED WITH FLOAT SWITCHES. EXTEND TO FLOAT SWITCHES AND TERMINAL BOX. SEE WIRING DETAIL ON SHEET E7.0.
 - 12 1" C WITH SUBMERSIBLE TRANSDUCER CABLE FURNISHED BY TRANSDUCER MANUFACTURER. EXTEND TO FLOAT SWITCHES AND TRANSDUCER TERMINAL BOX. SEE WIRING DETAIL ON SHEET E7.0.
 - 13 FLOAT SWITCH CABLE. EXTEND TO TERMINAL BOX PER NOTE 13 ABOVE.
 - 14 SUBMERSIBLE TRANSDUCER CABLE. EXTEND TO TERMINAL BOX PER NOTE 13 ABOVE.
 - 15 3#6, 1#6 GND IN 1" C.
 - 16 120 VOLT CIRCUIT FOR HEAT TAPE. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. MAKE ALL CONNECTIONS FOR PROPER OPERATION. HEAT TAPE SHALL INCLUDE CONTROLLER WITH GROUND FAULT PROTECTION.
 - 17 DISCONNECT MEANS FOR THE ODOR CONTROL. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. MAKE ALL CONNECTIONS FOR PROPER OPERATION.

REV.	DATE	BY	DESCRIPTION
1	12/22/23	G.A.	ADDED VAULT FOR FLOW METER

WARNING!
BEFORE YOU DIG
CALL
1-800-DIG-TESS
1-800-344-8377
FOR FIELD LOCATING
EXISTING UTILITIES

ENGINEER'S NOTE
GONZALO AGUILAR
PROFESSIONAL ENGINEER, INC.
REGISTRATION NUMBER: F-4190
401 B N. FRESLER
PHONE: (915) 581-5622
FAX: (915) 581-2824
email: gonzaleng@aol.com



DESIGNED G.A.
DRAWN A.M./J.M.S.
CHECKED G.A.
DATE NOVEMBER-2023

UTILITY OWNER
PROJECT PARTNER
CONSULTANT

Lower Valley WATER DISTRICT
1157 FM 1110
CLINT, TEXAS 79836
PH (915) 791-4480

MCI Moreno Cardenas Inc.
EL PASO SAN ANTONIO
2505 E. Missouri Ave., El Paso, TX 79903 (915) 532-2091
9601 McAllister Freeway #507, San Antonio TX 78216 (210) 314-3553
Texas Board of Professional Engineers Registration No. F-000554

PROJECT: EL PASO COUNTY ARPA 1010 PROJECT (PACKAGE 4) PANORAMA VILLAGE
SHEET TITLE: ELECTRICAL PLANS

THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED SPECIFICALLY AND EXCLUSIVELY FOR THE DESIGN OF
EL PASO COUNTY ARPA 1010 PROJECT (PACKAGE 4) PANORAMA VILLAGE
MORENO CARDENAS INC. IS NOT RESPONSIBLE FOR THEIR USE ON ANY OTHER PROJECT OR APPLICATION.

JOB NO. 21-117
4 SHEET NUMBER 8
E4.0