

ADDENDUM 1

PROJECT NAME: **MEDICAL CENTER INTERSECTION IMPROVEMENTS – PHASE X**

DATE: 08/16/17

This Addendum shall be included in and considered part of the solicitation documents for the construction of the Medical Center Intersection Improvements – Phase X Project. Contractor shall be required to sign its acknowledgement of the receipt of this Addendum and submit its signed Addendum Acknowledgement Form (attached hereto) with its bid.

PROJECT NO.: **40-00309A**

PROJECT MANUAL

- Replace “010 Invitation for Bids” with Addendum 01 “010 Invitation for Bid”
 - Calendar days were revised to 380 days.
- Replace “025 Unit Pricing Form” with Addendum 01 “025 Unit Pricing Form”
 - Removed item 0508-2001
 - Removed item 306.1
 - Per TxDOT Specification 400 Excavation and Backfill for Structures is subsidiary to the pertinent bid items.
 - Revised quantity for item 551.1
 - Revised item numbers for landscape items.
 - Replaced 560.1 with 0528-6011
 - Replaced 560.2 with 0528-6012
 - Replaced 570.1 with 0170-6001
 - Replaced 570.3 with 0192-6014
 - Replaced 570.4 with 0192-6012
 - Replaced 580.1 with 0752-6005, 0752-6006 and 0752-6007
 - Replaced 580.2 with 1004-6001
 - Replaced 580.3 with 0192-6039
 - Removed items 680.its01 to 680.its08
 - SAWS Water and Sewer quantities were adjusted.
- Replace “Governing Specifications” with Addendum No. 1 “Governing Specifications”
 - City of San Antonio Standard Specifications: Removed item 306.
 - Per TxDOT Specification 400 Excavation and Backfill for Structures is subsidiary to the pertinent bid items.



- City of San Antonio Special Specifications: Removed items 560, 570, 580 and replaced with TxDOT specifications.
- TxDOT Standard Specifications: Added items 0170, 0192, 0528 and 0752. Removed item 0508.
- TxDOT Special Provisions: Added provisions SP0192-001, SP528-999 and SP752-001.
- TxDOT Special Specifications: Added SS1004.
- Project Manual
 - Added standard specifications, special provisions and special specifications noted above.

PLANS

Design Package 1

- Replace Sheet 11 “Estimate and Quantity” with Addendum 01 “Estimate and Quantity”.
 - Removed Item 0508-2001 from the quantities.
 - Removed Item 306.1 from the quantities.
 - Revised quantity for item 551.1.
 - Item numbers for landscaping changed as stated above.
 - Removed 680.its01 to 680.its08 from the quantities.
- Replace Sheet 15 “Traffic control plan narrative and special notes” with Addendum 01 “Traffic control plan narrative and special notes”.
 - Special note was added in regards to WellMed parking lot construction timeline.
- Replace Sheets 83-89 “Storm Drain Plan and Profile” with Addendum 01 “Storm Drain Plan and Profile”.
 - Included callouts to describe limits of Temporary Special Shoring.
- Replace Sheet 148 “Traffic Signal Summary” with Addendum 01 “Traffic Signal Summary”.
 - Removed items 680.its01 to 680.its08 from the table.
 - Clarified note regarding spare mast arm.

Design Package 2

- Replace Sheet 4 “Estimate and Quantity” with Addendum 01 “Estimate and Quantity”.
 - Removed Item 0508-2001 from the quantities.
 - Item numbers for landscaping changed.
 - Removed 680.its01 to 680.its08 from the quantities.
- Replace Sheet 26 “Traffic Signal Plan Proposed Layout” with Addendum 01 “Traffic Signal Plan Layout”.
 - Removed note regarding installation of LTE communication equipment.
- Replace Sheet 27 “Traffic Signal Plan Conduit & Conductor Schedule” with Addendum 01 “Traffic Signal Plan Conduit & Conductor Schedule”.
 - Removed installation of LTE equipment from controller cabinet (Labeled as B on plans)
- Replace Sheet 29 “Traffic Signal Plan Summary” with Addendum 01 “Traffic Signal Plan Summary”.
 - Removed items 680.its01 to 680.its08 from the table.

SAWS Water plans

- Replace Sheet 2 of 15 “General Notes and Quantities” with Addendum 01 “General Notes and Quantities”.
 - Updated summary of water quantities table
- Replace Sheet 9 of 15 “Enlarged Plan and Section Detail” with Addendum 01 “Enlarged Plan and Section Detail”.
 - Updated table of quantities
- Replace Sheet 12 of 15 “Enlarged Plan and Section Detail” with Addendum 01 “Enlarged Plan and Section Detail”.
 - Updated table of quantities
 - Updated note about service connection.

SAWS Sewer plans

- Replace Sheet 2 of 5 “General Notes and Quantities” with Addendum 01 “General Notes and Quantities”.
 - Updated summary of sanitary sewer quantities.
- Replace Sheet 4 of 5 “Plan and Profile” with Addendum 01 “Plan and Profile”.
 - Updated table of quantities.

CONTRACTOR’S QUESTIONS

1. Could you please clarify the duration of the job? It states 235 Calendar days, but there are 15 months in the barricades. Please clarify.
Response: Addendum 01 will be issued to correct days to 380 calendar days.
2. Please verify where all the Temporary Shoring is. It isn’t called out on the plans.
Response: Temporary shoring is for main drainage trunk line and is called out in addendum No. 1 drainage plans. Contractor to choose their method of shoring approved by an engineer.
3. Where does the concrete removal for the channel pay for?
Response: Item 103.4 “Remove Miscellaneous Concrete” will pay for removal of concrete drainage channel.
4. Where does the extra 6” of asphalt that we have to take out for the box culverts pay under? Is it subsidiary to the box culvert excavation?
Response: Subsidiary to item 106.1 “Box Culvert Excavation and Backfill”
5. What is involved in the Constructing Detours Item? Could you provide details on any detours that are needed?
Response: This item is not needed and will be removed as part of Addendum 01. All TCP items are paid for individually.



6. Where is the Pipe Removal paid for? Is this subsidiary to the Box Culverts?
Response: Paid for under Item 0496-6007 "Remove Str (Pipe)".
7. I'm having trouble locating items because there are no summary sheets. Is there a way we could get summary sheets showing us the pages where the Bid Items occur?
Response: Summary sheets are not provided. Please submit questions for individual items that are unclear.
8. How was special shoring calculated? The item quantity seems low.
Response: The quantity has been revised with Addendum 01.
9. Where is street excavation located?
Response: Street excavation is on Sheet 61, 62 and 63. Most excavation is used for the bus pads.
10. How is backfill paid for on manholes and reinforced concrete pipes?
Response: Per TxDOT Specification 400 Excavation and Backfill for Structures is subsidiary to the pertinent bid items.
11. Does special shoring protect only box culverts in the main trunk line or does it also protect the pipes at the end of Line A2 on sheet 89?
Response: Temporary special shoring also protects the pipes at the end of Line A2. See Addendum No. 1 Drainage sheets.
12. Can we mill each phase as we work on it, to ensure that after placing the 12" TY B to cover the trench for the drainage line, there are no bumps on the road? We will overlay the entire road after all the phases are complete.
Response: Yes. The intent is to mill the entire phase as you work on it to provide a level riding platform for the next phase with necessary ramping to make up the elevation difference between phases as needed.
13. Who is relocating the power pole and the light poles in design package 2?
Response: CPS Energy will be relocating these facilities.



Note: The Addenda Acknowledgement Form for Addendum 1 is attached hereto. This Addenda Acknowledgement Form must be signed and submitted with Contractor's bid package.



ACKNOWLEDGEMENT FORM

RECEIPT OF ADDENDUM NUMBER(S) 1 IS HEREBY ACKNOWLEDGED BY THE UNDERSIGNED REGARDING THE SOLICITATION OF THE CONSTRUCTION OF MEDICAL CENTER INTERSECTION IMPROVEMENTS – PHASE X PROJECT NO. 40-00309A, FOR WHICH BIDS ARE SCHEDULED TO BE OPENED ON TUESDAY, AUGUST 29, 2017 AT 2:00 P.M. CST

THIS ACKNOWLEDGEMENT FORM MUST BE SIGNED AND RETURNED WITH CONTRACTOR’S BID PACKAGE.

Company Name: _____

Address: _____

City/State/Zip Code: _____

Date: _____

Signature

Print Name/Title

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

1

PROJECT NAME: Medical Center Intersection Improvements Phase 10
PROJECT NO. 40-00309A

DESIGN PACKAGE 1

| ALT. NO. | ITEM NO. | DESC. CODE | S.P. NO | BID ITEM DESCRIPTION | UNIT OF MEASURE | APPROX. QUANTITIES | UNIT BID PRICE | AMOUNT | ITEM SEQUENCE NO. |
|-------------|----------|---------------|------------|---|--------------------|-----------------------|-------------------|--------|-------------------------|
| | | | | The City only will accept bid pricing to the hundredths. Any pricing extended out to three decimal points will be truncated to two decimal points in the City's favor. | | | | | |
| | 100.1 | | | MOBILIZATION | LS | 1 | | | |
| | 100.2 | | | INSURANCE AND BOND | LS | 1 | | | |
| | 101.1 | | | PREPARING RIGHT-OF-WAY | LS | 1 | | | |
| | 103.1 | | | REMOVE CONCRETE CURB | LF | 1207 | | | |
| | 103.3 | | | REMOVE SIDEWALKS AND DRIVEWAYS | SF | 7780 | | | |
| | 103.4 | | | REMOVE MISCELLANEOUS CONCRETE | SF | 7688 | | | |
| | 103.5 | | | REMOVE RAIL (PEDESTRIAN) | LF | 123 | | | |
| | 104.1 | | | STREET EXCAVATION | CY | 182 | | | |
| | 105.1 | | | CHANNEL EXCAVATION | CY | 374 | | | |
| | 106.1 | | | BOX CULVERT EXCAVATION AND BACKFILL | CY | 10073 | | | |
| | 203.1 | | | TACK COAT | GAL | 1572 | | | |
| | 205.3 | | | HOT MIX ASPHALTIC PAVEMENT TY C 2 IN. PAV THICKNESS (PG 76-22) | SY | 15715 | | | |
| | 208.1 | | | SALVAGING, HAULING & STOCKPILING RECLAIM ASPH PAV 2 IN. | SY | 15549 | | | |
| | 209.1 | | | CONCRETE PAVEMENT AT 12 INCHES OF DEPTH | SY | 92 | | | |
| | 209.2 | | | BUS STOP CONCRETE PAD | SY | 706 | | | |
| | 307.1 | | | CONCRETE STRUCTURE (ELEVATED SIDEWALKS) (< 10 C.Y.) | CY | 9 | | | |
| | 307.2 | | | CONCRETE STRUCTURE (CHANNEL) | CY | 133 | | | |
| | 308.1 | | | DRILLED SHAFTS (24") | LF | 36 | | | |
| | 308.1 | | | DRILLED SHAFTS (36") | LF | 70 | | | |
| | 401.101 | | | REINFORCED CONCRETE PIPE (CLASS III)(18" DIA) | LF | 3 | | | |
| | 401.102 | | | REINFORCED CONCRETE PIPE (CLASS III)(24" DIA) | LF | 327 | | | |
| | 401.103 | | | REINFORCED CONCRETE PIPE (CLASS III)(36" DIA) | LF | 83 | | | |
| | 413.2 | | | FLOWABLE FILL (HIGH STRENGTH) | CY | 3230 | | | |
| | 500.1 | | | CONCRETE CURB | LF | 1012 | | | |
| | 502.1 | | | CONCRETE SIDEWALKS CONVENTIONALLY FORMED | SY | 52 | | | |
| | 502.2 | | | CONCRETE SIDEWALKS 4" | SY | 409 | | | |
| | 502.3 | | | CONCRETE SIDEWALKS 5" | SY | 113 | | | |
| | 502.5 | | | CONCRETE SIDEWALKS (VIA BUS FOUNDATION) | CY | 6 | | | |
| | 503.2 | | | PORTLAND CEMENT CONCRETE DRIVEWAY COMMERCIAL | SY | 214 | | | |
| | 507.2 | | | CHAIN LINK WIRE FENCE (6 FT. HIGH) | LF | 498 | | | |
| | 511.3 | | | REPLACING WITH HOT MIX ASPHALTIC CONCRETE PAVEMENT TYPE B 12 INCHES COMPACTED DEPTH | SY | 2999 | | | |
| | 516.1 | | | BERMUDA SODDING | SY | 303 | | | |
| | 531.1 | | | COMBINATION THRU/RIGHT WHITE ARROW | EA | 1 | | | |
| | 535.1 | | | 4 INCH WIDE YELLOW LINE | LF | 6544 | | | |
| | 535.2 | | | 4 INCH WIDE WHITE LINE | LF | 2028 | | | |
| | 535.4 | | | 8 INCH WIDE WHITE LINE | LF | 344 | | | |
| | 535.7 | | | 24 INCH WIDE WHITE LINE | LF | 580 | | | |
| | 535.8 | | | RIGHT WHITE ARROW | EA | 2 | | | |
| | 535.9 | | | LEFT WHITE ARROW | EA | 3 | | | |
| | 535.10 | | | COMBINATION THRU/RIGHT WHITE ARROW | EA | 1 | | | |
| | 535.12 | | | WORD "ONLY" | EA | 3 | | | |

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

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PROJECT NAME: Medical Center Intersection Improvements Phase 10
PROJECT NO. 40-00309A

| ALT. NO. | ITEM NO. | DESC. CODE | S.P. NO | BID ITEM DESCRIPTION | UNIT OF MEASURE | APPROX. QUANTITIES | UNIT BID PRICE | AMOUNT | ITEM SEQ. NO. |
|----------|----------|------------|---------|---|-----------------|--------------------|----------------|--------|---------------|
| | 535.23 | | | HANDICAP SYMBOL | EA | 4 | | | |
| | 535.24 | | | RELOCATE SIGN | EA | 6 | | | |
| | 537.6 | | | PAVEMENT MARKER (TYPE I C) | EA | 180 | | | |
| | 537.8 | | | PAVEMENT MARKER (TYPE II A A) | EA | 169 | | | |
| | 540.1 | | | ROCK FILTER DAMS (INSTALL/REMOVE) (TYPE 2) | LF | 13 | | | |
| | 540.10 | | | CURB INLET GRAVEL FILTERS | LF | 540 | | | |
| | 550.1 | | | TRENCH EXCAVATION SAFETY PROTECTION | LF | 94 | | | |
| | 551.1 | | | TEMPORARY SPECIAL SHORING | SF | 47152 | | | |
| | 615.1 | | | TRAFFIC SIGNAL CONTROLLER ASSEMBLY (TYPE 332 CABINET) | EA | 1 | | | |
| | 618.1 | | | CONDUIT (2 INCH/PVC SCHEDULE 40)(TRENCH) | LF | 545 | | | |
| | 618.2 | | | CONDUIT (3 INCH/PVC SCHEDULE 40)(TRENCH) | LF | 125 | | | |
| | 618.4 | | | CONDUIT (2 INCH/PVC SCHEDULE 40)(BORE) | LF | 350 | | | |
| | 618.5 | | | CONDUIT (3 INCH/PVC SCHEDULE 40)(BORE) | LF | 695 | | | |
| | 620.1 | | | ELECTRICAL CONDUCTORS (NO. 6)(BARE) | LF | 15 | | | |
| | 620.2 | | | ELECTRICAL CONDUCTORS (NO. 8)(BARE) | LF | 1585 | | | |
| | 620.3 | | | ELECTRICAL CONDUCTORS (NO. 6)(INSULATED) | LF | 25 | | | |
| | 624.8 | | | GROUND BOXES TYPE D (162922) W/ APRON | EA | 4 | | | |
| | 628.1 | | | ELECTRICAL SERVICES (PER INSTALLATION) | EA | 1 | | | |
| | 628.2 | | | REMOVE ELECTRICAL SERVICES (PER REMOVAL) | EA | 1 | | | |
| | 633.1 | | | BATTERY BACKUP SYSTEM | EA | 1 | | | |
| | 655.1 | | | TYPE 332 CONTROLLER FOUNDATION | EA | 1 | | | |
| | 680.1 | | | INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (ISOLATED) | EA | 1 | | | |
| | 682.1 | | | INSTALL VEHICLE SIGNAL SECTION WITH BACK PLATE (3 SECTION) | EA | 10 | | | |
| | 682.3 | | | INSTALL VEHICLE SIGNAL SECTION WITH BACK PLATE (5 SECTION) | EA | 1 | | | |
| | 682.4 | | | INSTALL PEDESTRIAN SIGNAL SECTION (12 INCH) LED (2 IND) | EA | 8 | | | |
| | 683.1 | | | LED COUNTDOWN PEDESTRIAN MODULE | EA | 8 | | | |
| | 684.1 | | | TRAFFIC SIGNAL CABLES (TYPE A)(12 AWG)(CONDUCTOR NO. 3) (TRAY CABLE) | EA | 1355 | | | |
| | 684.1 | | | TRAFFIC SIGNAL CABLES (TYPE A)(14 AWG)(CONDUCTOR NO. 9) | EA | 2820 | | | |
| | 684.1 | | | TRAFFIC SIGNAL CABLES (TYPE A)(16 AWG)(CONDUCTOR NO. 3) | EA | 1125 | | | |
| | 686.1 | | | INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL)(STR TY B)(LUM) | EA | 5 | | | |
| | 687.1 | | | PEDESTAL POLE ASSEMBLY | EA | 6 | | | |
| | 688.2 | | | PEDESTRIAN DETECTORS [2 INCH PUSH BUTTON] | EA | 8 | | | |
| | 688.3 | | | AUDIBLE PEDESTRIAN SIGNAL UNITS [TYPE] | EA | 8 | | | |
| | 695.2 | | | EMERGENCY PREEMPTION PHASE SELECTOR | EA | 4 | | | |
| | 695.3 | | | EMERGENCY PREEMPTION DETECTOR | EA | 4 | | | |
| | 695.4 | | | EMERGENCY PREEMPTION DETECTOR CABLE | LF | 620 | | | |
| | 696.1 | | | RADAR ADVANCED DETECTION DEVICE (RADD) | EA | 3 | | | |
| | 696.2 | | | RADAR PRESENCE DETECTION DEVICE (RPDD) | EA | 4 | | | |
| | 696.3 | | | RADAR ADVANCED DETECTION DEVICE (RADD) COMMUNICATION & POWER CABLE(S) | LF | 505 | | | |
| | 696.4 | | | RADAR PRESENCE DETECTION DEVICE (RPDD) COMMUNICATION & POWER CABLE(S) | LF | 825 | | | |
| | 5300.2 | | | OFF-DUTY POLICE OFFICERS | HR | 400 | | | |
| | 6007.1 | | | REMOVAL OF TRAFFIC SIGNALS AT INTERSECTION | EA | 1 | | | |
| | 8100.1 | | | Install ITS Traffic Monitoring Camera Assembly | EA | 1 | | | |
| | 8100.2 | | | Install ITS Traffic Monitoring Camera Cabling | LF | 95 | | | |
| | 0170 | 6001 | | IRRIGATION SYSTEM | LS | 1 | | | |
| | 0192 | 6012 | | MULCH | CY | 5 | | | |

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

3

PROJECT NAME: Medical Center Intersection Improvements Phase 10
PROJECT NO. 40-00309A

| ALT. NO. | ITEM NO. | DESC. CODE | S.P. NO | BID ITEM DESCRIPTION | UNIT OF MEASURE | APPROX. QUANTITIES | UNIT BID PRICE | AMOUNT | ITEM SEQUENCE NO. |
|-------------|----------|---------------|------------|--|--------------------|-----------------------|-------------------|--------|-------------------------|
| | 0192 | 6014 | | PLANTING SOIL MIX | CY | 25 | | | |
| | 0192 | 6039 | | PLANT MATERIAL (MIN 10' HT) (B&B) | EA | 12 | | | |
| | 0450 | 6052 | | RAIL (HANDRAIL)(TY F) | LF | 112 | | | |
| | 0462 | 6002 | | CONC BOX CULV (3 FT X 3 FT) | LF | 141 | | | |
| | 0462 | 6004 | | CONC BOX CULV (4 FT X 3 FT) | LF | 387 | | | |
| | 0462 | 6011 | | CONC BOX CULV (6 FT X 4 FT) | LF | 846 | | | |
| | 0462 | 6028 | | CONC BOX CULV (9 FT X 9 FT) | LF | 470 | | | |
| | 0465 | 2144 | | INLET (COMPL)(TRAFFIC)(TY X-2) | EA | 1 | | | |
| | 0465 | 2145 | | INLET (COMPL)(TRAFFIC)(TY X-3) | EA | 1 | | | |
| | 0465 | 2146 | | INLET (COMPL)(TRAFFIC)(TY X-4) | EA | 1 | | | |
| | 0465 | 6040 | | INLET (COMPL)(PCU)(5FT)(BOTH) | EA | 2 | | | |
| | 0465 | 6071 | | INLET (COMPL)(PSL)(RC)(4FTX4FT) | EA | 2 | | | |
| | 0465 | 6074 | | INLET (COMPL)(PSL)(RC)(5FTX5FT) | EA | 1 | | | |
| | 0465 | 6076 | | INLET (COMPL)(PSL)(RC)(6FTX6FT) | EA | 4 | | | |
| | 0465 | 6077 | | INLET (COMPL)(PSL)(RC)(8FTX8FT) | EA | 5 | | | |
| | 0465 | 6207 | | INLET (COMPL)(CURB)(TY 1)(10') | EA | 21 | | | |
| | 0465 | 6274 | | MANH (COMPL)(RISER ONLY) | EA | 3 | | | |
| | 0465 | 6284 | | MANHOLE (COMPL)(SPECIAL) | EA | 2 | | | |
| | 0496 | 6007 | | REMOV STR (PIPE) | LF | 210 | | | |
| | 0502 | 6001 | | BARRICADES, SIGNS AND TRAFFIC HANDLING | MO | 12 | | | |
| | 0512 | 6009 | | PORT CTB (FUR & INST)(LOW PROF)(TY 1) | LF | 740 | | | |
| | 0512 | 6010 | | PORT CTB (FUR & INST)(LOW PROF)(TY 2) | LF | 440 | | | |
| | 0512 | 6033 | | PORT CTB (MOVE)(LOW PROF)(TY 1) | LF | 1300 | | | |
| | 0512 | 6034 | | PORT CTB (MOVE)(LOW PROF)(TY 2) | LF | 560 | | | |
| | 0512 | 6057 | | PORT CTB (REMOVE)(LOW PROF)(TY 1) | LF | 740 | | | |
| | 0512 | 6058 | | PORT CTB (REMOVE)(LOW PROF)(TY 2) | LF | 440 | | | |
| | 0528 | 6011 | | LANDSCAPE PAVERS TYPE I | SY | 46 | | | |
| | 0528 | 6012 | | LANDSCAPE PAVERS TYPE II | SY | 124 | | | |
| | 0529 | 6015 | | CONC CURB (TY C1) | LF | 145 | | | |
| | 0662 | 6060 | | WK ZN PAV MRK REMOV (W)4"(BRK) | LF | 1050 | | | |
| | 0662 | 6063 | | WK ZN PAV MRK REMOV (W)4"(SLD) | LF | 5150 | | | |
| | 0662 | 6071 | | WK ZN PAV MRK REMOV (W)8"(SLD) | LF | 312 | | | |
| | 0662 | 6075 | | WK ZN PAV MRK REMOV (W)24"(SLD) | LF | 176 | | | |
| | 0662 | 6080 | | WK ZN PAV MRK REMOV (W)(ARROW) | EA | 1 | | | |
| | 0662 | 6090 | | WK ZN PAV MRK REMOV (W)(WORD) | EA | 1 | | | |
| | 0662 | 6095 | | WK ZN PAV MRK REMOV (Y)4"(SLD) | LF | 14289 | | | |
| | 0662 | 6109 | | WK ZN PAV MRK SHT TERM (TAB)TY W | EA | 560 | | | |
| | 0662 | 6110 | | WK ZN PAV MRK SHT TERM (TAB)TY Y | EA | 342 | | | |
| | 0677 | 6001 | | ELIM EXT PAV MRK & MRKS (4") | LF | 475 | | | |
| | 0677 | 6017 | | ELIM EXT PAV MRK & MRKS (SYMBOL) | EA | 4 | | | |
| | 0752 | 6005 | | TREE REMOVAL (4" - 12" DIA) | EA | 3 | | | |
| | 0752 | 6006 | | TREE REMOVAL (12" - 18" DIA) | EA | 4 | | | |
| | 0752 | 6007 | | TREE REMOVAL (18" - 24" DIA) | EA | 1 | | | |
| | 1004 | 6001 | | TREE PROTECTION | EA | 30 | | | |
| | 6001 | 6001 | | PORTABLE CHANGEABLE MESSAGE SIGN | DAY | 42 | | | |

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

4

PROJECT NAME:Medical Center Intersection Improvements Phase 10
PROJECT NO. 40-00309A

DESIGN PACKAGE 2

| ALT. NO. | ITEM NO. | DESC. CODE | S.P. NO | BID ITEM DESCRIPTION | UNIT OF MEASURE | APPROX. QUANTITIES | UNIT BID PRICE | AMOUNT | ITEM SEQUENCE NO. |
|-------------|----------|---------------|------------|---|--------------------|-----------------------|-------------------|--------|-------------------------|
| | | | | The City only will accept bid pricing to the hundredths. Any pricing extended out to three decimal points will be truncated to two decimal points in the City's favor. | | | | | |
| | 100.1 | | | MOBILIZATION | LS | 1 | | | |
| | 100.2 | | | INSURANCE AND BOND | LS | 1 | | | |
| | 101.1 | | | PREPARING RIGHT-OF-WAY | LS | 1 | | | |
| | 103.1 | | | REMOVE CONCRETE CURB | LF | 629 | | | |
| | 103.3 | | | REMOVE SIDEWALKS AND DRIVEWAYS | SF | 2600 | | | |
| | 103.4 | | | REMOVE MISCELLANEOUS CONCRETE | SF | 29 | | | |
| | 104.1 | | | STREET EXCAVATION | CY | 588 | | | |
| | 203.1 | | | TACK COAT | GAL | 75 | | | |
| | 205.3 | | | HOT MIX ASPHALTIC PAVEMENT TY C 2 IN. PAV THICKNESS | SY | 741 | | | |
| | 208.1 | | | SALVAGING, HAULING & STOCKPILING RECLAIM ASPH PAV 2 IN. | SY | 270 | | | |
| | 209.2 | | | BUS STOP CONCRETE PAD | SY | 270 | | | |
| | 307.1 | | | CONCRETE STRUCTURE (FOUNDATION) | CY | 0.3 | | | |
| | 308.1 | | | DRILLED SHAFTS (48") | LF | 22 | | | |
| | 401.104 | | | REINFORCED CONCRETE PIPE (CLASS IV)(24" DIA) | LF | 51 | | | |
| | 413.2 | | | FLOWABLE FILL (HIGH STRENGTH) | CY | 29 | | | |
| | 500.1 | | | CONCRETE CURB | LF | 420 | | | |
| | 502.2 | | | CONCRETE SIDEWALKS 4" | SY | 285 | | | |
| | 502.3 | | | CONCRETE SIDEWALKS 5" | SY | 11 | | | |
| | 502.5 | | | CONCRETE SIDEWALKS (VIA BUS FOUNDATION) | CY | 6 | | | |
| | 506.1 | | | CONCRETE RETAINING WALLS COMBINATION TYPE | CY | 24 | | | |
| | 511.3 | | | REPLACING WITH HOT MIX ASPHALTIC CONCRETE PAVEMENT TYPE B 12 INCHES COMPACTED DEPTH | SY | 614 | | | |
| | 516.1 | | | BERMUDA SODDING | SY | 247 | | | |
| | 531.1 | | | COSA SIGNS | EA | 3 | | | |
| | 535.1 | | | 4 INCH WIDE YELLOW LINE | LF | 71 | | | |
| | 535.2 | | | 4 INCH WIDE WHITE LINE | LF | 80 | | | |
| | 535.4 | | | 8 INCH WIDE WHITE LINE | LF | 452 | | | |
| | 535.7 | | | 24 INCH WIDE WHITE LINE | LF | 325 | | | |
| | 535.8 | | | RIGHT WHITE ARROW | EA | 3 | | | |
| | 535.9 | | | LEFT WHITE ARROW | EA | 3 | | | |
| | 535.11 | | | COMBINATION THRU/LEFT WHITE ARROW | EA | 3 | | | |
| | 535.12 | | | WORD "ONLY" | EA | 2 | | | |
| | 537.6 | | | PAVEMENT MARKER (TYPE I C) | EA | 31 | | | |
| | 537.8 | | | PAVEMENT MARKER (TYPE II A A) | EA | 4 | | | |
| | 540.10 | | | CURB INLET GRAVEL FILTERS | LF | 28 | | | |
| | 550.1 | | | TRENCH EXCAVATION SAFETY PROTECTION | LF | 82 | | | |
| | 618.1 | | | CONDUIT (2 INCH/PVC SCHEDULE 40)(TRENCH) | LF | 40 | | | |
| | 618.2 | | | CONDUIT (3 INCH/PVC SCHEDULE 40)(TRENCH) | LF | 210 | | | |
| | 620.2 | | | ELECTRICAL CONDUCTORS (NO. 8)(BARE) | LF | 510 | | | |
| | 624.8 | | | GROUND BOXES TYPE D (162922) | EA | 1 | | | |
| | 633.1 | | | BATTERY BACKUP SYSTEM | EA | 1 | | | |

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

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PROJECT NAME: Medical Center Intersection Improvements Phase 10
PROJECT NO. 40-00309A

| ALT. NO. | ITEM NO. | DESC. CODE | S.P. NO | BID ITEM DESCRIPTION | UNIT OF MEASURE | APPROX. QUANTITIES | UNIT BID PRICE | AMOUNT | ITEM SEQUENCE NO. |
|----------|----------|------------|---------|---|-----------------|--------------------|----------------|--------|-------------------|
| | 680.2 | | | INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (SYSTEM) | EA | 1 | | | |
| | 682.1 | | | INSTALL VEHICLE SIGNAL SECTION WITH BACK PLATE (3 SECTION) | EA | 3 | | | |
| | 682.2 | | | INSTALL VEHICLE SIGNAL SECTION WITH BACK PLATE (4 SECTION) | EA | 3 | | | |
| | 682.3 | | | INSTALL VEHICLE SIGNAL SECTION WITH BACK PLATE (5 SECTION) | EA | 2 | | | |
| | 682.4 | | | INSTALL PEDESTRIAN SIGNAL SECTION (12 INCH) LED (2 IND) | EA | 2 | | | |
| | 683.1 | | | LED COUNTDOWN PEDESTRIAN MODULE | EA | 2 | | | |
| | 684.1 | | | TRAFFIC SIGNAL CABLES (TYPE A)(12 AWG)(CONDUCTOR NO. 3) (TRAY CABLE) | LF | 175 | | | |
| | 684.1 | | | TRAFFIC SIGNAL CABLES (TYPE A)(14 AWG)(CONDUCTOR NO. 4) | LF | 170 | | | |
| | 684.1 | | | TRAFFIC SIGNAL CABLES (TYPE A)(14 AWG)(CONDUCTOR NO. 9) | LF | 285 | | | |
| | 684.1 | | | TRAFFIC SIGNAL CABLES (TYPE A)(16 AWG)(CONDUCTOR NO. 3) | LF | 1370 | | | |
| | 686.1 | | | INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL)(1 ARM 60')(LUM)(ILSN) | EA | 1 | | | |
| | 687.1 | | | PEDESTAL POLE ASSEMBLY | EA | 1 | | | |
| | 688.3 | | | AUDIBLE PEDESTRIAN SIGNAL UNITS [TYPE] | EA | 2 | | | |
| | 693.1 | | | INTERNALLY LIGHTED STREET NAME SIGNS [ILSN SIGN 8' S] | EA | 1 | | | |
| | 695.2 | | | EMERGENCY PREEMPTION PHASE SELECTOR | EA | 1 | | | |
| | 695.3 | | | EMERGENCY PREEMPTION DETECTOR | EA | 1 | | | |
| | 695.4 | | | EMERGENCY PREEMPTION DETECTOR CABLE | LF | 220 | | | |
| | 696.1 | | | RADAR ADVANCED DETECTION DEVICE (RADD) | EA | 3 | | | |
| | 696.2 | | | RADAR PRESENCE DETECTION DEVICE (RPDD) | EA | 4 | | | |
| | 696.3 | | | RADAR ADVANCED DETECTION DEVICE (RADD) COMMUNICATION & POWER CABLE(S) | LF | 445 | | | |
| | 696.4 | | | RADAR PRESENCE DETECTION DEVICE (RPDD) COMMUNICATION & POWER CABLE(S) | LF | 510 | | | |
| | 5300.2 | | | OFF-DUTY POLICE OFFICERS | HR | 80 | | | |
| | 6007.1 | | | REMOVAL OF TRAFFIC SIGNALS AT INTERSECTION | EA | 1 | | | |
| | 8100.1 | | | INSTALL ITS TRAFFIC MONITORING CAMERA ASSEMBLY | EA | 1 | | | |
| | 8100.2 | | | INSTALL ITS TRAFFIC MONITORING CAMERA CABLING | LF | 165 | | | |
| | 0170 | 6001 | | IRRIGATION SYSTEM | LS | 1 | | | |
| | 0465 | 6175 | | INLET (COMPL)(CURB)(TY C) | EA | 1 | | | |
| | 0502 | 6001 | | BARRICADES, SIGNS AND TRAFFIC HANDLING | MO | 3 | | | |
| | 0528 | 6012 | | LANDSCAPE PAVERS TYPE II | SY | 133 | | | |
| | 0662 | 6071 | | WK ZN PAV MRK REMOV (W)8"(SLD) | LF | 230 | | | |
| | 0662 | 6080 | | WK ZN PAV MRK REMOV (W)(ARROW) | EA | 2 | | | |
| | 0662 | 6090 | | WK ZN PAV MRK REMOV (W)(WORD) | EA | 2 | | | |
| | 0677 | 6001 | | ELIM EXT PAV MRK & MRKS (4") | LF | 4 | | | |
| | 0677 | 6003 | | ELIM EXT PAV MRK & MRKS (8") | LF | 4 | | | |
| | 0677 | 6007 | | ELIM EXT PAV MRK & MRKS (24") | LF | 184 | | | |
| | 0677 | 6017 | | ELIM EXT PAV MRK & MRKS (SYMBOL) | EA | 4 | | | |

Total City Base Bid Amount:

SAWS WATER

| ALT. NO. | ITEM NO. | DESC. CODE | S.P. NO | BID ITEM DESCRIPTION | UNIT OF MEASURE | APPROX. QUANTITIES | UNIT BID PRICE | AMOUNT | ITEM SEQUENCE NO. |
|----------|----------|------------|---------|------------------------------|-----------------|--------------------|----------------|--------|-------------------|
| | 100 | | | MOBILIZATION | LS | 1.00 | | | |
| | 101 | | | PREPARATION OF RIGHT-OF-WAY | LS | 1.00 | | | |
| | 103 | | | REMOVE CONCRETE CURB | LF | 10.00 | | | |
| | 103 | | | REMOVE SIDEWALKS & DRIVEWAYS | SF | 196.00 | | | |

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

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PROJECT NAME: Medical Center Intersection Improvements Phase 10
PROJECT NO. 40-00309A

| | | | | | | | | |
|---------------------------------|--|--|---|-----|-----------------------------------|--|--|--|
| 500 | | | CONCRETE CURB, GUTTER, AND CONCRETE CURB AND GUTTER | LF | 10.00 | | | |
| 502 | | | CONCRETE SIDEWALK | SY | 23.00 | | | |
| 550 | | | TRENCH EXCAV. SAFETY PROTECTION | LF | 290.00 | | | |
| 818 | | | 8" PVC WATERLINE (RESTRAINED) (0'-6' CUT) | LF | 110.00 | | | |
| 818 | | | 12" PVC WATERLINE (RESTRAINED) (0'-6' CUT) | LF | 90.00 | | | |
| 818 | | | 12" PVC WATERLINE (RESTRAINED) (6'-14' CUT) | LF | 90.00 | | | |
| 824 | | | RELAY 1-1/2", SHORT | EA | 2.00 | | | |
| 826 | | | VALVE BOX ADJUSTMENT | EA | 2.00 | | | |
| 828 | | | 12" GATE VALVE, COMPLETE w/BOX | EA | 3.00 | | | |
| 831 | | | 12"x12" CUT-IN-TEE | EA | 2.00 | | | |
| 834 | | | FIRE HYDRANT, COMPLETE | EA | 1.00 | | | |
| 834.3 | | | RELOCATE FIRE HYDRANT | EA | 1.00 | | | |
| 836 | | | PIPE FITTINGS, ALL SIZES AND TYPES | TON | 4.05 | | | |
| 840 | | | 8" WATER TIE-IN | EA | 7.00 | | | |
| 840 | | | 12" WATER TIE-IN | EA | 8 | | | |
| 841 | | | HYDROSTATIC TESTING | EA | 7 | | | |
| 844 | | | 2" BLOW-OFF, TEMPORARY | EA | 15 | | | |
| 858 | | | CONCRETE ENCASEMENT, CRADLES, SADDLES AND COLLARS | CY | 15 | | | |
| Special Spec (Electrical) | | | REMOVE AND RELOCATE EXISTING PRESSURE POINT MONITORING PANEL. EXTEND ALL NEW COMPONENTS, UNDERGROUND CONDUITS, AND ELECTRICAL WIRING FROM THE PRESSURE MONITORING POINT PANEL, AND EXISTING METER BOX TO NEW POWER POLE. RELOCATE EXISTING YAGI ANTENNA AND SERVICE METER. AS SHOWN ON THE DRAWINGS AND SPECIFIED IN THE CONTRACT DOCUMENTS COMPLETE-IN-PLACE FOR THE LUMP SUM. | LS | 1 | | | |
| | | | | | Total SAWS Water Base Bid Amount: | | | |

SAWS Sewer

| ALT. NO. | ITEM NO. | DESC. CODE | S.P. NO | BID ITEM DESCRIPTION | UNIT OF MEASURE | APPROX. QUANTITIES | UNIT BID PRICE | AMOUNT | ITEM SEQUENCE NO. |
|-------------|----------|---------------|------------|--|--------------------|-----------------------|-------------------|--------|-------------------------|
| | 206 | | | ASPHALT TREATED BASE (10" COMPACTED DEPTH) | SY | 20.00 | | | |
| | 413 | | | FLOWABLE FILL | CY | 2.00 | | | |
| | 550 | | | TRENCH EXCAVATION PROTECTION | LF | 175.00 | | | |
| | 848 | | | 10" PVC SDR-26 (2241) SEWER LINE (6'-14') | CY | 175.00 | | | |
| | 852 | | | SANITARY SEWER MANHOLE (0'-6') | EA | 1.00 | | | |
| | 852 | | | SANITARY SEWER DROP MANHOLE (0'-6') | EA | 1 | | | |
| | 852 | | | EXTRA DEPTH MAHOLES (>6') | VF | 5 | | | |
| | 855 | | | RECONSTRUCTION OF EXISTING MANHOLE | EA | 2 | | | |
| | 864 | | | BY-PASS PUMPING | LS | 2 | | | |
| | 866 | | | SAN. SWR. PRE TELEVISION INSP. (8"-15") | LF | 175 | | | |
| | 866 | | | SAN. SWR. POST TELEVISION INSP. (8"-15") | LF | 175 | | | |

Total SAWS Sewer Base Bid Amount:

Total City + SAWS Water + SAWS Sewer Base Bid Amount:

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

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PROJECT NAME: Medical Center Intersection Improvements Phase 10
PROJECT NO. 40-00309A

_____ certifies that the unit prices shown on this complete computer print-out for all of the bid items and the alternates contained in this proposal are the unit prices intended and that its bid will be tabulated using these unit prices and no other information from this print-out.

_____ Acknowledged and agrees that the total bid amount shown will be read as its total bid and further agrees that the official total bid amount will be determined by multiplying the unit bid prices shown in this print-out by the respective estimated quantities shown in the proposal and then totaling all of the extended amounts. _____ agrees to the terms, conditions, and requirements of the bidder's bid proposal.

Signed: _____ Date: _____

Title: _____

CITY OF SAN ANTONIO, TEXAS
GOVERNING SPECIFICATIONS

All standard specifications and special specifications applicable to this project are identified as follows:

CITY OF SAN ANTONIO
STANDARD SPECIFICATIONS FOR CONSTRUCTION (JUNE 2008)

| <u>ITEM NO.</u> | <u>DESCRIPTION</u> |
|-----------------|---|
| 100 | MOBILIZATION |
| 101 | PREPARING RIGHT-OF-WAY |
| 103 | REMOVE CONCRETE |
| 104 | STREET EXCAVATION |
| 105 | CHANNEL EXCAVATION |
| 106 | BOX CULVERT EXCAVATION AND BACKFILLING |
| 203 | TACK COAT |
| 205 | HOT MIX ASPHALTIC CONCRETE PAVEMENT |
| 208 | SALVAGING, HAULING, & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT |
| 209 | REINFORCED CONCRETE PAVEMENT |
| 307 | CONCRETE STRUCTURES |
| 308 | DRILLED SHAFTS AND UNDER-REAMED FOUNDATIONS |
| 401 | REINFORCED CONCRETE PIPE |
| 413 | FLOWABLE FILL |
| 500 | CONCRETE CURB, GUTTER, AND CONCRETE CURB AND GUTTER |
| 502 | CONCRETE SIDEWALKS |
| 503 | ASPHALTIC CONCRETE, PORTLAND CEMENT CONCRETE, AND GRAVEL DRIVEWAYS |
| 506 | CONCRETE RETAINING WALL – COMBINATION TYPE |
| 507 | CHAIN LINK WIRE FENCE |
| 511 | REPLACING WITH HOT MIX ASPHALTIC CONCRETE PAVEMENT TY B 12 INCHES COMPACTED DEPTH |
| 516 | SODDING |
| 531 | COSA SIGNS |
| 535 | HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS |
| 537 | RAISED PAVEMENT MARKERS |
| 540 | TEMPORARY EROSION, SEDIMENTATION AND WATER POLLUTION PREVENTION AND CONTROL |
| 550 | TRENCH EXCAVATION SAFETY PROTECTION |
| 551 | TEMPORARY SPECIAL SHORING |
| 615 | TRAFFIC SIGNAL CONTROLLER CABINET |
| 618 | CONDUIT |
| 620 | ELECTRICAL CONDUCTORS |
| 624 | GROUND BOXES |
| 628 | ELECTRICAL SERVICES |
| 633 | BATTERY BACKUP SYSTEM FOR TRAFFIC SIGNAL |
| 655 | CONTROLLER FOUNDATION AND PEDESTAL POST |
| 680 | INSTALLATION OF HIGHWAY TRAFFIC SIGNALS |
| 682 | VEHICLE AND PEDESTRIAN SIGNAL HEADS |
| 683 | LED COUNTDOWN PEDESTRIAN SIGNAL MODULE |
| 684 | TRAFFIC SIGNAL CABLES |

| | |
|-----|--|
| 686 | TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) |
| 687 | PEDESTAL POLE ASSEMBLIES |
| 688 | PEDESTRIAN DETECTORS AND VEHICLE LOOP DETECTORS |
| 693 | INTERNALLY LIGHTED STREET NAME SIGN ASSEMBLIES |
| 695 | EMERGENCY VEHICLE TRAFFIC SIGNAL PRIORITY CONTROL SYSTEM |
| 696 | RADAR ADVANCED DETECTION DEVICE (RADD) |

SPECIAL PROVISIONS

| | |
|--------|---|
| | SPECIAL PROVISIONS UPDATE MAY 2009 |
| | SPECIAL PROVISIONS UPDATE FEBRUARY 2010 |
| | SPECIAL PROVISIONS UPDATE JUNE 2010 |
| | SPECIAL PROVISIONS UPDATE NOVEMBER 2013 |
| | SPECIAL PROVISION TO THE GENERAL CONDITIONS |
| 526SPL | FIELD OFFICE |

SPECIAL SPECIFICATIONS

| | |
|------|-------------------------------|
| 5300 | OFF DUTY POLICE OFFICER |
| 6007 | REMOVE TRAFFIC SIGNALS |
| 8100 | ITS TRAFFIC MONITORING SYSTEM |

TEXAS DEPARTMENT OF TRANSPORTATION **STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF** **HIGHWAYS, STREETS, AND BRIDGES 2014**

STANDARD SPECIFICATIONS: ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION
NOVEMBER 1, 2014

| | |
|------|--|
| 0170 | IRRIGATION SYSTEM |
| 0192 | LANDSCAPE PLANTING |
| 0450 | SIDEWALK RAIL |
| 0462 | CONCRETE BOX CULVERTS AND DRAINS |
| 0465 | JUNCTION BOXES, MANHOLES AND INLETS |
| 0496 | REMOVING STRUCTURES |
| 0502 | BARRICADES, SIGNS AND TRAFFIC HANDLING |
| 0512 | PORTABLE TRAFFIC BARRIER |
| 0528 | COLORED TEXTURED CONCRETE AND LANDSCAPE PAVERS |
| 0529 | CONCRETE CURB |
| 0662 | WORK ZONE PAVEMENT MARKINGS |
| 0677 | ELIMINATING EXISTING PAVEMENT MARKINGS AND MARKERS |
| 0752 | TREE AND BRUSH REMOVAL |
| 6001 | PORTABLE CHANGEABLE MESSAGE SIGN |

SPECIAL PROVISIONS: SPECIAL PROVISIONS WILL GOVERN AND TAKE PRECEDENCE OVER THE SPECIFICATIONS ENUMERATED HEREON WHEREVER IN CONFLICT THEREWITH.

| | |
|-----------|--|
| SP192-001 | LANDSCAPE PLANTING |
| SP528-999 | COLORED TEXTURED CONCRETE AND LANDSCAPE PAVERS |
| SP752-001 | TREE AND BRUSH REMOVAL |

SPECIAL SPECIFICATIONS:

| | |
|--------|-----------------|
| SS1004 | TREE PROTECTION |
|--------|-----------------|

SAWS

GOVERNING SPECIFICATIONS

All Specifications applicable to this project are identified as follows:

SAWS STANDARD SPECIFICATIONS - 2014

| ITEM NO. | | DESCRIPTION |
|------------------------|-------|---|
| ITEM | 100 | MOBILIZATION |
| ITEM | 101 | PREPARATION OF RIGHT-OF-WAY |
| ITEM | 413 | FLOWABLE FILL |
| ITEM | 550 | TRENCH EXCAVATION SAFETY PROTECTION |
| ITEM | 818 | PVC (C-900, C-905 AND C-909) PIPE INSTALLATION |
| ITEM | 824 | WATER SERVICE SUPPLY LINES |
| ITEM | 826 | VALVE BOX ADJUSTMENT |
| ITEM | 828 | GATE VALVES |
| ITEM | 831 | CUT-IN-TEE |
| ITEM | 834 | FIRE HYDRANTS |
| ITEM | 836 | GREY-IRON AND DUCTILE-IRON FITTINGS |
| ITEM | 840 | WATER TIE-INS |
| ITEM | 841 | HYDROSTATIC TESTING OPERATIONS |
| ITEM | 844 | BLOW OFF-ASSEMBLIES |
| ITEM | 848 | SANITARY SEWERS |
| ITEM | 852 | SANITARY SEWER MANHOLES |
| ITEM | 855 | RECONSTRUCTION OF EXISTING MANHOLES |
| ITEM | 858 | CONCRETE ENCASEMENT, CRADLES, SADDLES AND COLLARS |
| ITEM | 864 | BY-PASS PUMPING |
| ITEM | 866 | SEWER MAIN TELEVISION INSPECTION |
| SPECIAL SPECIFICATIONS | | |
| ELECTRICAL | | |
| ITEM | 16010 | BASIC ELECTRICAL REQUIREMENTS |
| ITEM | 16050 | BASIC ELECTRICAL MATERIALS AND METHODS |
| ITEM | 16073 | HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS |
| ITEM | 16110 | RACEWAYS |
| ITEM | 16120 | CONDUCTORS |
| ITEM | 16451 | GROUNDING |
| ITEM | 16950 | ELECTRICAL TESTING |

Special Provision to Item 192

Landscape Planting



Item 192, "Landscape Planting," of the Standard Specifications, is amended with respect to the clauses cited below. No other clauses or requirements of this Item are waived or changed.

Section 3.15., "Maintenance". The second sentence is voided and replaced by the following:

Perform the maintenance work for a minimum of 365 calendar days at designated locations by following the work schedule and frequencies shown on the plans.

Section 3.15.9., "Plant Replacement," is voided and replaced by the following:

Remove and dispose of dead and damaged plants from the worksite as directed. Replace plants as originally specified prior to each payment as specified under Article 192.5. , "Payment".

Article 192.5., "Payment," is voided and replaced by the following:

The work performed and the materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Plant Material" of the size, "Plant Material" of the type, "Plant Material" of the size and type specified, "Plant Material" of the group specified or "Palm Material" of the type specified. This price is full compensation for furnishing the plant, mulch, plant soil mix, landscape edge, plant bed preparation and vegetation barrier, unless mulch, plant soil mix, landscape edge, plant bed preparation and vegetation barrier are specified as separate items. Payment for "Plant Material" and "Palm Material" will be handled in the following manner:

5.1. **Initial Payment.** When the planting and installation of related materials are completed and approved, 55% of the unit price bid for each plant will be paid.

5.2. **Eleven 30-Day Payment.** Following the initial payment, when the eleven 30-day periods of the 365-day maintenance (see Section 192.3.15, "Maintenance") are completed and approved, an additional 3.75% of the total price bid for all plants will be paid, but if the maintenance is not completed and approved for a 30-day period, that 3.75% will be forfeited.

5.3. **Final Payment.** When the final 35 days of the 365-day maintenance are completed and approved, and after final inspection and acceptance, an additional 3.75% of the total price bid for all plants will be paid, but if the maintenance is not completed and approved, that 3.75% will be forfeited.

When mulch, plant soil mix, landscape edge, plant bed preparation and vegetation barrier are specified as separate pay items, the work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Mulch" or "Mulch" of the type specified, "Plant Soil Mix" or "Plant Soil Mix" of the type specified, "Landscape Edge" or "Landscape Edge" of the type specified, "Plant Bed Preparation" or "Plant Bed Preparation" of the type specified, and "Vegetation Barrier" or "Vegetation Barrier" of the type specified. Each price is full compensation for materials, equipment, labor, tools, and incidentals.

Special Provision to Item 528

Colored Textured Concrete and Landscape Pavers



Item 528, "Colored Textured Concrete and Landscape Pavers" of the Standard Specifications is amended with respect to the clauses cited below. No other clauses or requirements of this Item are waived or changed.

Article 1.2 Landscape Pavers. The paragraph is amended to include the following:

- 1.2.1 **Summary.** Section Includes:
 - 1. Interlocking precast concrete pavers.
 - 2. Sand bed over concrete sub-slab.
- 1.2.2 **References.** ASTM International (ASTM):
 - 1. C33 - Standard Specification for Concrete Aggregates.
 - 2. C136 - Standard Test Method for Sieve Analysis for Fine and Coarse Aggregate.
 - 3. C144 - Standard Specification for Aggregate for Masonry Mortar.
 - 4. C936 - Standard Specification for Solid Concrete Interlocking Paving Units.
 - 5. C979 - Standard Specification for Pigments for Integrally Colored Concrete.
- 1.2.3 **Related Documents.** Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- 1.2.4 **Submittals.** Submittals for Review:
 - 1. Samples: Paver samples showing maximum color range.
- 1.2.5 **Quality Assurance.** Mockup:
 - 1. Size: Minimum 2 feet x 4 feet of buffer and full in place version for pedestrian ramp.
 - 2. Show: Paver color and texture, maximum color range, paver pattern, and joint profile.
 - 3. Locate where directed.
 - 4. Approved mockup may remain as part of the Work.

Article 2.2 Landscape Pavers. The paragraph is amended to include the following:

- 2.2.1 **Materials**
 - A. Concrete Pavers:
 - 1. "Plaza Stone I and II", 2-2/8" and 3-1/8" thick (and as below), as available from Pavestone Company, San Marcos, Texas, or approved equivalent.
 - 2. "Detectable Warning Paver", 2-3/8" thick x 3-7/8" wide x 7-13/16" long as available from Pavestone Company, San Marcos, Texas, or approved equivalent.
 - 3. Existing Concrete Pavers: carefully salvage and store whole on wooden pallets for re-setting. Broken pavers shall be discarded. Should new pavers be required – whether due to breakage or insufficient quantity, provide new ones to match size, finish, and color of existing.
 - 4. Physical requirements: Meet ASTM C936.
 - 5. Coloring admixture: ASTM C979, pure mineral oxide, alkali resistant, colorfast, water insoluble, chemically inert, and weather resistant.
- 2.2.2 **Patterns and Colors**
 - A. Pattern: Three patterns are required:
 - 1. Rowlock Pattern: "Plaza Stone", Large Rectangular Stones
 - 2. Field Courses Pattern: "Plaza Stone", Large Rectangular Stones, Square Stones, Small Rectangular Stones, ¾ Rectangular Stones, and Half Squares, in a well-distributed range of these different sizes. Refer to drawings for pattern locations.

3. Basketweave Pattern: "Detectable Warning Paver", one size only.
4. Existing Concrete Pavers: re-set salvaged pavers in the same pattern as previously existing, or as indicated on drawings

B. Colors:

1. For "Plaza Stone Pavers", a color blend in the following proportions:
 - a. 25% Cast Stone
 - b. 25% Dark Brown
 - c. 25% Buff
 - d. 25% Charcoal Gray
2. For "Detectable Warning Paver": Dark Brown
3. Colors as available from Pavestone Company, San Marcos, Texas. Submit samples of each

C. Bedding Sand: ASTM C33, normal weight sand, graded per ASTM C136:

| SIEVE SIZE | PERCENT PASSING |
|------------|-----------------|
| 3/8 inch | 100 |
| No. 4 | 95 to 100 |
| No. 8 | 85 to 100 |
| No. 16 | 50 to 85 |
| No. 30 | 25 to 60 |
| No. 50 | 10 to 30 |
| No. 100 | 2 to 10 |

D. Joint Sand: ASTM C144, normal weight sand, graded per ASTM C136:

| SIEVE SIZE | PERCENT PASSING |
|------------|-----------------|
| No. 4 | 100 |
| No. 8 | 95 to 100 |
| No. 16 | 70 to 100 |
| No. 30 | 40 to 75 |
| No. 50 | 10 to 35 |
| No. 100 | 2 to 15 |
| No. 200 | 0 |

- 2.2.3. **Accessories.** Masonry Cleaner: Type recommended by masonry manufacturer.

Article 3.2 Landscape Pavers. The paragraph is voided and replaced by the following:

3.2.1. Installation

- A. Place bedding sand to minimum 1-inch uncompacted thickness. Screed off to true surface conforming to required line and grade.
- B. Place pavers in pattern indicated from straight reference line.
- C. Sequence laying to prevent placing pavers between previously placed units.
- D. Machine cut units at perimeter and around obstructions. Minimize units less than one-half normal size.
- E. Discard cracked, broken, chipped, stained, and otherwise damaged pavers.
- F. Vibrate to final level with plate type vibrator.
- G. After initial vibration, brush joint sand over surface and vibrate into joints.
- H. Place pavers with final surface 1/8 to 1/4 inch above drainage inlets, concrete collars, and drainage channels.
- I. Do not pass vibrator closer than 3 feet of unrestrained edges.
- J. Sweep off excess sand.
- K. Allowable Tolerances: Surfaces true to level or indicated slopes with plus or minus 3/8 inch in 10 feet tolerance.

3.2.2. Cleaning

- A. Protect adjacent and underlying surfaces.
- B. Apply masonry cleaner in accordance with manufacturer's instructions.
- C. Thoroughly rinse surfaces with clean water after completion of cleaning; remove all traces of cleaning solution.

Special Provision to Item 752

Tree and Brush Removal



Item 752, "Tree and Brush Removal" of the Standard Specifications is amended with respect to the clauses cited below. No other clauses or requirements of this Item are waived or changed.

Article 752.5.2 "Measurement" is voided and replaced by the following:

752.5 Tree Trimming and Brush Removal. By the linear foot parallel to the roadway.

Article 752.6. "Paymentt" is voided and replaced by the following:

The work performed in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Tree Removal" of the diameter specified, "Tree Trimming" of the dimension specified, "Brush Removal," "Tree Trimming and Brush Removal," and "Stump Removal." This price is full compensation for removal, trimming, disposal, equipment, traffic control, labor, and incidentals.

When not shown on the plans as a separate pay item, payment for tree trimming and brush removal in channels will be included in payment by the linear foot. When shown on the plans as a separate pay item, tree trimming and brush removal in channels will be paid for at the unit price bid for "Tree Trimming and Brush Removal (Channels)."

Special Specification 1004

Tree Protection



1. DESCRIPTION

Install tree protection as shown on the plans or as directed.

2. MATERIALS

Furnish materials in accordance with the plans.

3. CONSTRUCTION

Use construction methods in accordance with the plans.

4. MEASUREMENT

This Item will be measured by the acres of trees protected or by each tree protected.

5. PAYMENT

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Tree Protection." This price is full compensation for furnishing all materials, equipment, labor, and incidentals.

DESIGN PACKAGE 1 QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | QTY |
|----------------------|---|------|--------|
| TRAFFIC CONTROL PLAN | | | |
| CoSA | | | |
| 5300.2 | OFF-DUTY POLICE OFFICERS | HR | 400 |
| TXDOT | | | |
| 0502-6001 | BARRICADES, SIGNS AND TRAFFIC HANDLING | MO | 12 |
| 0512-6009 | PORT CTB (FUR & INST)(LOW PROF)(TY 1) | LF | 740 |
| 0512-6010 | PORT CTB (FUR & INST)(LOW PROF)(TY 2) | LF | 440 |
| 0512-6033 | PORT CTB (MOVE)(LOW PROF)(TY 1) | LF | 1,300 |
| 0512-6034 | PORT CTB (MOVE)(LOW PROF)(TY 2) | LF | 560 |
| 0512-6057 | PORT CTB (REMOVE)(LOW PROF)(TY 1) | LF | 740 |
| 0512-6058 | PORT CTB (REMOVE)(LOW PROF)(TY 2) | LF | 440 |
| 0662-6060 | WK ZN PAV MRK REMOV (W)4"(BRK) | LF | 1,050 |
| 0662-6063 | WK ZN PAV MRK REMOV (W)4"(SLD) | LF | 5,150 |
| 0662-6071 | WK ZN PAV MRK REMOV (W)8"(SLD) | LF | 312 |
| 0662-6075 | WK ZN PAV MRK REMOV (W)24"(SLD) | LF | 176 |
| 0662-6080 | WK ZN PAV MRK REMOV (W)(ARROW) | EA | 1 |
| 0662-6090 | WK ZN PAV MRK REMOV (W)(WORD) | EA | 1 |
| 0662-6095 | WK ZN PAV MRK REMOV (Y)4"(SLD) | LF | 14,289 |
| 0662-6109 | WK ZN PAV MRK SHT TERM (TAB)TY W | EA | 560 |
| 0662-6110 | WK ZN PAV MRK SHT TERM (TAB)TY Y | EA | 342 |
| 6001-6001 | PORTABLE CHANGEABLE MESSAGE SIGN | DAY | 42 |
| ROADWAY | | | |
| CoSA | | | |
| 103.1 | REMOVE CONCRETE CURB | LF | 1,193 |
| 103.3 | REMOVE SIDEWALKS AND DRIVEWAYS | SF | 7,780 |
| 103.4 | REMOVE MISCELLANEOUS CONCRETE | SF | 3,015 |
| 104.1 | STREET EXCAVATION | CY | 182 |
| 203.1 | TACK COAT | GAL | 1,572 |
| 205.3 | HOT MIX ASPHALTIC PAVEMENT TY C 2 IN. PAV THICKNESS (PG 76-22) | SY | 15,715 |
| 208.1 | SALVAGING, HAULING & STOCKPILING RECLAIM ASPH PAV 2 IN. | SY | 15,549 |
| 209.1 | CONCRETE PAVEMENT AT 12 INCHES OF DEPTH | SY | 92 |
| 209.2 | BUS STOP CONCRETE PAD | SY | 706 |
| 500.1 | CONCRETE CURB | LF | 992 |
| 502.1 | CONCRETE SIDEWALKS CONVENTIONALLY FORMED | SY | 39 |
| 503.2 | PORTLAND CEMENT CONCRETE DRIVEWAY COMMERCIAL | SY | 214 |
| DRAINAGE | | | |
| CoSA | | | |
| 103.1 | REMOVE CONCRETE CURB | LF | 14 |
| 103.4 | REMOVE MISCELLANEOUS CONCRETE | SF | 4,673 |
| 103.5 | REMOVE RAIL (PEDESTRIAN) | LF | 123 |
| 105.1 | CHANNEL EXCAVATION | CY | 374 |
| 106.1 | BOX CULVERT EXCAVATION AND BACKFILL | CY | 10,073 |
| 307.1 | CONCRETE STRUCTURE (ELEVATED SIDEWALKS) (< 10 C.Y. | CY | 9 |
| 307.2 | CONCRETE STRUCTURE (CHANNEL) | CY | 133 |
| 401.101 | REINFORCED CONCRETE PIPE (CLASS III)(18" DIA) | LF | 3 |
| 401.102 | REINFORCED CONCRETE PIPE (CLASS III)(24" DIA) | LF | 327 |
| 401.103 | REINFORCED CONCRETE PIPE (CLASS III)(36" DIA) | LF | 83 |
| 413.2 | FLOWABLE FILL (HIGH STRENGTH) | CY | 3,230 |
| 500.1 | CONCRETE CURB | LF | 20 |
| 502.1 | CONCRETE SIDEWALKS CONVENTIONALLY FORMED | SY | 13 |
| 507.2 | CHAIN LINK WIRE FENCE (6 FT. HIGH) | LF | 498 |
| 511.3 | REPLACING WITH HOT MIX ASPHALTIC CONCRETE PAVEMENT TYPE B 12 INCHES COMPACTED DEPTH | SY | 2,999 |
| 550.1 | TRENCH EXCAVATION SAFETY PROTECTION | LF | 94 |
| 551.1 | TEMPORARY SPECIAL SHORING | SF | 47,152 |
| TXDOT | | | |
| 0450-6052 | RAIL (HANDRAIL)(TY F) | LF | 112 |
| 0462-6002 | CONC BOX CULV (3 FT X 3 FT) | LF | 141 |
| 0462-6004 | CONC BOX CULV (4 FT X 3 FT) | LF | 387 |
| 0462-6011 | CONC BOX CULV (6 FT X 4 FT) | LF | 846 |
| 0462-6028 | CONC BOX CULV (9 FT X 9 FT) | LF | 470 |
| 0465-2144 | INLET (COMPL)(TRAFFIC)(TY X-2) | EA | 1 |
| 0465-2145 | INLET (COMPL)(TRAFFIC)(TY X-3) | EA | 1 |
| 0465-2146 | INLET (COMPL)(TRAFFIC)(TY X-4) | EA | 1 |
| 0465-6040 | INLET (COMPL)(PCU)(5FT)(BOTH) | EA | 2 |
| 0465-6071 | INLET (COMPL)(PSL)(RC)(4FTX4FT) | EA | 2 |
| 0465-6074 | INLET (COMPL)(PSL)(RC)(5FTX5FT) | EA | 1 |
| 0465-6076 | INLET (COMPL)(PSL)(RC)(6FTX6FT) | EA | 4 |
| 0465-6077 | INLET (COMPL)(PSL)(RC)(8FTX8FT) | EA | 5 |
| 0465-6207 | INLET (COMPL)(CURB)(TY 1)(10') | EA | 21 |
| 0465-6274 | MANH (COMPL)(RISER ONLY) | EA | 3 |
| 0465-6284 | MANHOLE (COMPL)(SPECIAL) | EA | 2 |
| 0496-6007 | REMOV STR (PIPE) | LF | 210 |

| ITEM NO. | DESCRIPTION | UNIT | QTY |
|----------------|---|------|-------|
| LANDSCAPING | | | |
| CoSA | | | |
| 502.2 | CONCRETE SIDEWALKS 4" | SY | 409 |
| 502.3 | CONCRETE SIDEWALKS 5" | SY | 113 |
| 502.5 | CONCRETE SIDEWALKS (VIA BUS FOUNDATION) | CY | 6 |
| 516.1 | BERMUDA SODDING | SY | 303 |
| TXDOT | | | |
| 0170-6001 | IRRIGATION SYSTEM | LS | 1 |
| 0192-6012 | MULCH | CY | 5 |
| 0192-6014 | PLANT SOIL MIX | CY | 25 |
| 0192-6039 | PLANT MATERIAL (MIN 10' HT) (B&B) | EA | 12 |
| 0528-6011 | LANDSCAPE PAVERS (TYPE I) | SY | 46 |
| 0528-6012 | LANDSCAPE PAVERS (TYPE II) | SY | 124 |
| 0529-6015 | CONC CURB (TY C1) | LF | 145 |
| 0752-6005 | TREE REMOVAL (4" - 12" DIA) | EA | 3 |
| 0752-6006 | TREE REMOVAL (12" - 18" DIA) | EA | 4 |
| 0752-6007 | TREE REMOVAL (18" - 24" DIA) | EA | 1 |
| 1004-6001 | TREE PROTECTION | EA | 30 |
| TRAFFIC SIGNAL | | | |
| CoSA | | | |
| 308.1 | DRILLED SHAFTS (24") | LF | 36 |
| 308.1 | DRILLED SHAFTS (36") | LF | 70 |
| 615.1 | TRAFFIC SIGNAL CONTROLLER ASSEMBLY (TYPE 332 CABINET) | EA | 1 |
| 618.1 | CONDUIT (2 INCH/PVC SCHEDULE 40)(TRENCH) | LF | 545 |
| 618.2 | CONDUIT (3 INCH/PVC SCHEDULE 40)(TRENCH) | LF | 125 |
| 618.4 | CONDUIT (2 INCH/PVC SCHEDULE 40)(BORE) | LF | 350 |
| 618.5 | CONDUIT (3 INCH/PVC SCHEDULE 40)(BORE) | LF | 695 |
| 620.1 | ELECTRICAL CONDUCTORS (NO. 6)(BARE) | LF | 15 |
| 620.2 | ELECTRICAL CONDUCTORS (NO. 8)(BARE) | LF | 1,585 |
| 620.3 | ELECTRICAL CONDUCTORS (NO. 6)(INSULATED) | LF | 25 |
| 624.8 | GROUND BOXES TYPE D (162922) W/ APRON | EA | 4 |
| 628.1 | ELECTRICAL SERVICES (PER INSTALLATION) | EA | 1 |
| 628.2 | REMOVE ELECTRICAL SERVICES (PER REMOVAL) | EA | 1 |
| 633.1 | BATTERY BACKUP SYSTEM | EA | 1 |
| 655.1 | TYPE 332 CONTROLLER FOUNDATION | EA | 1 |
| 680.1 | INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (ISOLATED) | EA | 1 |
| 682.1 | INSTALL VEHICLE SIGNAL SECTION WITH BACK PLATE (3 SECTION) | EA | 10 |
| 682.3 | INSTALL VEHICLE SIGNAL SECTION WITH BACK PLATE (5 SECTION) | EA | 1 |
| 682.4 | INSTALL PEDESTRIAN SIGNAL SECTION (12 INCH) LED (2 IND) | EA | 8 |
| 683.1 | LED COUNTDOWN PEDESTRIAN MODULE | EA | 8 |
| 684.1 | TRAFFIC SIGNAL CABLES (TYPE A)(12 AWG)(CONDUCTOR NO. 3)(TRAY CABLE) | EA | 1,355 |
| 684.1 | TRAFFIC SIGNAL CABLES (TYPE A)(14 AWG)(CONDUCTOR NO. 9) | EA | 2,820 |
| 684.1 | TRAFFIC SIGNAL CABLES (TYPE A)(16 AWG)(CONDUCTOR NO. 3) | EA | 1,125 |
| 686.1 | INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL)(STR TY B)(LUM) | EA | 5 |
| 687.1 | PEDESTAL POLE ASSEMBLY | EA | 6 |
| 688.2 | PEDESTRIAN DETECTORS [2 INCH PUSH BUTTON] | EA | 8 |
| 688.3 | AUDIBLE PEDESTRIAN SIGNAL UNITS [TYPE] | EA | 8 |
| 695.2 | EMERGENCY PREEMPTION PHASE SELECTOR | EA | 4 |
| 695.3 | EMERGENCY PREEMPTION DETECTOR | EA | 4 |
| 695.4 | EMERGENCY PREEMPTION DETECTOR CABLE | LF | 620 |
| 696.1 | RADAR ADVANCED DETECTION DEVICE (RADD) | EA | 3 |
| 696.2 | RADAR PRESENCE DETECTION DEVICE (RPDD) | EA | 4 |
| 696.3 | RADAR ADVANCED DETECTION DEVICE (RADD) COMMUNICATION & POWER CABLE(S) | LF | 505 |
| 696.4 | RADAR PRESENCE DETECTION DEVICE (RPDD) COMMUNICATION & POWER CABLE(S) | LF | 825 |
| 6007.1 | REMOVAL OF TRAFFIC SIGNALS AT INTERSECTION | EA | 1 |
| 8100.1 | Install ITS Traffic Monitoring Camera Assembly | EA | 1 |
| 8100.2 | Install ITS Traffic Monitoring Camera Cabling | LF | 95 |

| ITEM NO. | DESCRIPTION | UNIT | QTY |
|---------------------------------------|--|------|-------|
| SIGNING AND PAVEMENT MARKINGS | | | |
| CoSA | | | |
| 531.1 | COSA SIGNS | EA | 1 |
| 535.1 | 4 INCH WIDE YELLOW LINE | LF | 6,544 |
| 535.2 | 4 INCH WIDE WHITE LINE | LF | 2,028 |
| 535.4 | 8 INCH WIDE WHITE LINE | LF | 344 |
| 535.7 | 24 INCH WIDE WHITE LINE | LF | 580 |
| 535.8 | RIGHT WHITE ARROW | EA | 2 |
| 535.9 | LEFT WHITE ARROW | EA | 3 |
| 535.10 | COMBINATION THRU/RIGHT WHITE ARROW | EA | 1 |
| 535.12 | WORD "ONLY" | EA | 3 |
| 535.23 | HANDICAP SYMBOL | EA | 4 |
| 535.24 | RELOCATE SIGN | EA | 6 |
| 537.6 | PAVEMENT MARKER (TYPE I C) | EA | 180 |
| 537.8 | PAVEMENT MARKER (TYPE II A A) | EA | 169 |
| TXDOT | | | |
| 0677-6001 | ELIM EXT PAV MRK & MRKS (4") | LF | 475 |
| 0677-6017 | ELIM EXT PAV MRK & MRKS (SYMBOL) | EA | 4 |
| STORM WATER POLLUTION PREVENTION PLAN | | | |
| CoSA | | | |
| 540.1 | ROCK FILTER DAMS (INSTALL/REMOVE) (TYPE 2) | LF | 13 |
| 540.10 | CURB INLET GRAVEL FILTERS | LF | 540 |

NOTES:
1. EXISTING PAVEMENT MARKING IN CONFLICT WITH WORK ZONE PAVEMENT MARKINGS SHALL BE REMOVED. THIS WORK IS SUBSIDIARY TO THE WORK ZONE PAVEMENT MARKING ITEMS.



SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 1 TBPLS FIRM REGISTRATION #10028800



CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

MEDICAL CENTER PHASE X
LOUIS PASTEUR & EWING HALSELL
ESTIMATE AND QUANTITY

DESIGN PACKAGE 1 SHEET 1 OF 1

| | | |
|-----------------|----------------------|-----------------|
| 100 % SUBMITTAL | PROJECT NO.: 5241-46 | DATE: 8/15/2017 |
| DRWN, BY: JG | DSGN, BY: JG | CHKD, BY: LR |
| SHEET NO.: 11 | | |

ADDENDUM NO. 01

9:11:44 AM
Plotted on: 8/7/2017
Design File name: P:\52\41\46\design\Civil\TCP\524146\CPNARR-ADD01.dgn

TRAFFIC NOTES AND SPECIAL CONDITIONS

1. ENSURE THAT ALL TRAFFIC CONTROL DEVICES ARE PROPERLY INSTALLED AND MAINTAINED AT THE JOB SITE IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS, TMUTCD AND RELATED INDUSTRY STANDARDS AND REGULATIONS. THESE NOTES, DO NOT, IN AND OF THEMSELVES, CONSTITUTE A TRAFFIC CONTROL PLAN. IN THE EVENT THAT THESE PLANS DO NOT INCLUDE TRAFFIC CONTROL, OR THAT THE CONTRACTOR WISHES TO VARY FROM TRAFFIC CONTROL INCLUDED WITH THESE PLANS, HE SHALL SUBMIT FOR REVIEW A TRAFFIC CONTROL PLAN SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS, INCLUDING A SIGN AND BARRICADE PLAN CONFORMING TO THE REQUIREMENTS OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE CITY'S CONSTRUCTION OBSERVER / INSPECTOR (COI) AND THE TRAFFIC ENGINEERING REPRESENTATIVE WILL ONLY BE RESPONSIBLE TO INSPECT THE TRAFFIC CONTROL DEVICES BEING DEPLOYED. IF, IN THE OPINION OF THE TRAFFIC ENGINEERING REPRESENTATIVE AND THE COI, THE TRAFFIC CONTROL DEVICES DO NOT CONFORM TO ESTABLISHED STANDARDS OR ARE INCORRECTLY PLACED OR ARE INSUFFICIENT IN QUANTITY TO PROTECT THE GENERAL PUBLIC, THE COI SHALL HAVE THE OPTION TO STOP CONSTRUCTION OPERATIONS AT NO EXPENSE TO THE CITY UNTIL SUCH TIME AS THE CONDITIONS ARE CORRECTED BY THE CONTRACTOR.
2. PRIOR TO STARTING CONSTRUCTION, CONTACT THE CITY OF SAN ANTONIO TRAFFIC OPERATIONS SECTION AT 207-7765 FOR A TRAFFIC SIGN AND TRAFFIC SIGNAL INVENTORY. PRIOR TO COMPLETION OF THE CONTRACT AND REMOVAL OF THE BARRICADES, AGAIN CONTACT THE TRAFFIC OPERATIONS SECTION. THE BARRICADES SHALL NOT BE REMOVED UNTIL ALL APPLICABLE PERMANENT TRAFFIC SIGNS AND SIGNALS ARE IN PLACE.
3. OBTAIN AND MAINTAIN TEMPORARY STOP SIGNS AND ALL OTHER TRAFFIC CONTROL DEVICES REQUIRED TO PROTECT THE GENERAL PUBLIC. IF THE CITY OF SAN ANTONIO HAS REMOVED PERMANENT STOP SIGNS, THE CONTRACTOR SHALL REQUEST THAT THE SIGNS BE RETURNED TO THE CONSTRUCTION SITE TO BE REINSTALLED BY THE CONTRACTOR. ALL PERMANENT SIGNS OR TRAFFIC CONTROL DEVICES MISSING OR DAMAGED UPON COMPLETION OF CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
4. AS WORK PROGRESSES, LOCATION OF TEMPORARY TRAFFIC CONTROL DEVICES WILL BE ADJUSTED AND MODIFIED, AS NECESSARY BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
5. IF THE NEED ARISES, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES, SPECIAL DIRECTIONAL DEVICES, AND/OR BUSINESS NAME SIGNS MAY BE ORDERED BY THE TRAFFIC ENGINEERING REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
6. TEMPORARY TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE CITY'S "TYPICAL SIGN AND BARRICADE STANDARDS" SHEETS, TXDOT'S STANDARD'S, AND TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
7. MAINTAIN ALL STREETS WITHIN PROJECT LIMITS OPEN TO THROUGH TRAFFIC BY REPAIRING TRENCHES, POTHOLES, LEVELING UP WITH ASPHALT, ETC. AT NO DIRECT PAYMENT, WITH THE COST TO BE INCLUDED IN OTHER ITEMS.
8. PROVIDE SUITABLE ACCESS ACCOMMODATIONS FOR SCHOOL CHILDREN AND PEDESTRIANS IF NEEDED.
9. PROVIDE ACCESS FOR DELIVERY OF MAIL BY THE U.S. POSTAL SERVICE.
10. PROVIDE FOR ACCESS TO RESIDENCES AND ALL BUSINESSES AT ALL TIMES WITHIN ALL PHASES OF THE WORK.
11. WHEN CONSTRUCTION WORK NECESSITATES THE UTILIZATION OF VEHICLE PATHS OTHER THAN THE LANES NORMALLY USED, TRAFFIC CONTROL MARKINGS NO LONGER APPLICABLE SHALL BE REMOVED AND APPROVED TEMPORARY PAVEMENT MARKINGS AND SIGNS INSTALLED IN ACCORDANCE WITH PART VI-D OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
12. THE COI WILL MONITOR THE CONTRACTOR'S TRAFFIC CONTROL DEVICES AND WILL BE RESPONSIBLE TO FURNISH ALL RESIDENTS AND BUSINESSES WITH AN INFORMATION FLYER ON ALL JOBS DURING CONSTRUCTION.
13. ANY DAMAGE TO PERMANENT TRAFFIC SIGNALS, THE CONTROLLER BOX, LOOPS OR CONDUITS DURING OR UPON COMPLETION OF THE PROJECT SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. THE DECISION TO REPAIR, AS OPPOSED TO REPLACE, THE DAMAGED EQUIPMENT SHALL BE MADE BY THE CITY'S TRAFFIC ENGINEER.
14. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL STREETS OUTSIDE OF THE PROJECT LIMITS, WHICH ARE DAMAGED DUE TO CONSTRUCTION ACTIVITIES. THE REPLACED SECTION MUST BE APPROVED BY THE CITY'S STREET ENGINEER. THERE WILL BE NO DIRECT PAYMENT FOR THIS WORK. THE COST IS TO BE INCLUDED IN OTHER ITEMS.
15. OFF-DUTY POLICE OFFICERS WILL BE REQUIRED AS DIRECTED BY THE TRAFFIC ENGINEER.
16. PROVIDE THE CITY AN EMERGENCY TELEPHONE NUMBER FOR EVENINGS, WEEKENDS, AND HOLIDAYS BY THE FIRST WORKING DAY OF THE PROJECT. THIS TELEPHONE NUMBER MUST BE A COMMERCIAL ANSWERING SERVICE. THE ANSWERING SERVICE MUST BE ABLE TO CONTACT THE CONTRACTOR AND HAVE THE CONTRACTOR RESPOND TO THE CITY STAFF WITHIN TWO HOURS OF THE INITIAL CONTACT.

17. MAINTAIN CONTINUOUS ACCESS TO ALL INTERSECTING STREETS UNLESS OTHERWISE SHOWN ON THESE PLANS. WHEN CONTINUOUS ACCESS IS SCHEDULED TO BE BLOCKED, CONTACT THE DISPATCHERS FOR THE FIRE DEPARTMENT AND EMS AT (210) 227-8341 AND THE POLICE DEPARTMENT AT (210) 207-2257, TO APPRISE THEM OF THE PENDING STREET CLOSURE AT LEAST FORTY- EIGHT HOURS IN ADVANCE. IF THE CLOSURE FALLS ALONG A BUS ROUTE, CONTACT VIA AT (210) 362-5220.
18. MAINTAIN EITHER THE EXISTING OR TEMPORARY STREET NAME SIGNS AT EACH INTERSECTION ONSITE THROUGHOUT CONSTRUCTION. IF THE EXISTING STREET NAME SIGNS ARE USED, THEY MUST BE MAINTAINED IN THE CONDITION ENCOUNTERED PRIOR TO THE BEGINNING OF CONSTRUCTION, AND THEN BE TURNED IN TO THE CITY INSPECTOR AT THE END OF THE PROJECT. IF TEMPORARY SIGNS ARE USED DURING CONSTRUCTION, THEY SHALL HAVE A MINIMUM OF 4-INCH LETTERS, AND MAY BE FABRICATED WITH CONSTRUCTION ZONE MATERIAL (BLACK LEGEND ON ORANGE BACKGROUND, USING PLYWOOD SUBSTRATE, ETC.).

PHASING AND STAGING NOTES - STREET AND DRAINAGE CONSTRUCTION

1. ANY QUESTIONS REGARDING PHASING OR STAGING WILL BE STRICTLY HANDLED BY THE DEPARTMENT OF PUBLIC WORKS WHICH HAS COMPLETE AUTHORITY TO MAKE FINAL DECISIONS ON ANY CHANGES OR MODIFICATIONS. THE CONTRACTOR MUST CONTACT THE CITY'S CONSTRUCTION INSPECTOR 48 HOURS IN ADVANCE (NOT INCLUDING WEEKENDS OR HOLIDAYS) OF ANY MINOR STREET CLOSURE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ADVISE CONSTRUCTION INSPECTIONS TEN (10) DAYS IN ADVANCE OF ANY ARTERIAL STREET CLOSURE. THIS MUCH TIME IS NECESSARY TO INSTALL ADVISORY SIGNS AND GIVE THE MOTORISTS A MINIMUM OF SEVEN (7) DAYS NOTICE BEFORE STREET CLOSURE. THE CONSTRUCTION INSPECTOR, AFTER HAVING BEEN NOTIFIED, WILL CONTACT THE ENGINEERING OFFICE IMMEDIATELY TO MAKE THE NECESSARY ARRANGEMENTS. THE TEMPORARY BARRICADES AND WARNING SIGNS SHALL BE LOCATED SO AS TO AFFORD THE MAXIMUM PROTECTION TO THE PUBLIC AS WELL AS CONSTRUCTION PERSONNEL AND EQUIPMENT AND TO FACILITATE AN EXPEDITIOUS FLOW OF TRAFFIC AT ALL TIMES DURING CONSTRUCTION.
2. IF THERE ARE TWO (2) OR MORE PHASES IN THE PROJECT, NO MORE THAN TWO (2) PHASES OF CONSTRUCTION MAY BE WORKED AT ONE TIME, UNLESS OTHERWISE INDICATED IN THE PLANS. PARTIAL CONSTRUCTION AT DIFFERENT SCATTERED OCATIONS WITHIN THE PROJECT WILL NOT BE ALLOWED. PROJECTS THAT CONSIST OF DISTINCT AND SEPARATE AREAS MAY BE UNDER CONSTRUCTION AT THE SAME TIME WITH AN APPROVED FIELD ALTERATION. ALL REMAINING STREETS WITHIN THE PROJECT OR SEPARATE AREA SHALL REMAIN OPEN AT ALL TIMES.
3. UNLESS OTHERWISE INDICATED IN THE PLANS, TWO (2) PHASES IN SEQUENCE MAY BE WORKED AT THE SAME TIME, IN PROJECTS WHERE THERE ARE AT LEAST THREE (3) PHASES, SUCH AS PHASE 1 AND PHASE 2 AND BEFORE GOING TO PHASE 3, PHASE 1 MUST BE COMPLETED 100% WITH CASE MATERIAL AND APPROVED DENSITIES (PRIME COATED IF BASE MATERIAL IS ITEM NO. 200 "FLEXIBLE BASE") BEFORE BEGINNING PHASE 3. IF THERE ARE ONLY TWO (2) PHASES IN THE PROJECT, PHASE 1 MUST BE COMPLETED 100% WITH BASE MATERIAL AND APPROVED DENSITIES (PRIME COATED IF BASE MATERIAL IS ITEM NO. 200 "FLEXIBLE BASE") BEFORE PROCEEDING TO PHASE 2.
4. IF THE PROJECT HAS MORE THAN SIXTEEN (16) PHASES, BEFORE THE CONTRACTOR CAN BEGIN PHASE 17, HE MUST COMPLETELY FINISH WITH TYPE "B" OR TYPE "D" ASPHALT AT LEAST 50% OF THE LOWER PHASES HE HAS WORKED ON. (EXAMPLE: IF THE PROJECT HAS 20 PHASES, BEFORE THE CONTRACTOR CAN START CONSTRUCTION OF PHASE 17, HE MUST FINISH TYPE "B" OR TYPE "D" ASPHALT UP TO PHASE 8.).
5. THE PLANS ARE PHASED FOR STREET AND STORM DRAINAGE CONSTRUCTION. NO STORM SEWER CONSTRUCTION WILL TAKE PLACE OUTSIDE OF THE PHASING LIMITS UNDER CONSTRUCTION, UNLESS SPECIFICALLY NOTED ON THE PLANS OR AUTHORIZED IN WRITING BY THE TRAFFIC DIVISION.
6. ALL STORM DRAINAGE PIPES ARE NOT CONSIDERED UTILITIES, REGARDLESS OF SIZE. THIS WORK SHALL BE PART OF THE PHASE.
7. UNLESS OTHERWISE INDICATED IN THE PLANS, INTERSECTING STREETS SHALL BE CONSTRUCTED IN STAGES SO AS TO MAINTAIN ACCESS. INTERSECTION WORK SHALL BE DONE DURING WEEKEND HOURS OR AS DIRECTED BY THE ENGINEER. NO TWO ADJACENT INTERSECTIONS MAY BE CONSTRUCTED SIMULTANEOUSLY. WITH APPROVAL FROM THE ENGINEER, THE CONTRACTOR MAY CLOSE AN ENTIRE INTERSECTION. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE A DETOUR PLAN FOR SUCH A CLOSURE TO THE ENGINEER FOR APPROVAL.

TCP PLAN ADDITIONAL NOTES

1. GENERAL.
 - A. IF SO PERMITTED BY THE ENGINEER, WORK ACTIVITIES ON SUNDAY SHALL BE APPROVED IN ADVANCE. LANE CLOSURES WILL BE ALLOWED IN ONE DIRECTION ONLY. NOTIFY THE ENGINEER OF IMPENDING/UPCOMING LANE CLOSURES AT LEAST (7) DAYS IN ADVANCE OF LANE CLOSURES. THE LANE CLOSURES SHALL BE IN COMPLIANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).

B. LANE CLOSURES OTHER THAN THOSE SHOWN ON THE PHASING PLAN WILL NOT BE ALLOWED DURING NON-WORK HOURS. NO EQUIPMENT SHALL BE LEFT IN A POSITION THAT WILL ENDANGER THE TRAVELING PUBLIC.

C. MAINTAIN ADEQUATE DRAINAGE THROUGHOUT ALL PHASES OF CONSTRUCTION, WITH THE STORM WATER POLLUTION PREVENTION PLAN IN PLACE.

D. ACCESS TO PROPERTIES MUST BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE SHOWN.

E. MOVEMENT OF LPCB WILL BE REQUIRED TO ALLOW ADEQUATE PROTECTION WHEN INSTALLING STORM DRAIN IN FRONT OF DRIVEWAYS. COORDINATE CLOSURE OF DRIVEWAYS WITH THE RESPECTIVE OWNERS.

2. POLICE OFFICER NOTES

A. REQUIRED POLICE OFFICER TIMES ARE: MONDAY THROUGH FRIDAY 6:00 A.M. TO 6:00 P.M. WHEN LANE CLOSURES OTHER THAN DETAILED IN THE PLANS ARE BEING USED. POLICE OFFICERS WILL BE REQUIRED AT THE ENGINEERS DISCRETION.

B. WHEN THE OFFICER IS PRESENT HE IS REQUIRED TO BE DIRECTING TRAFFIC AT ALL TIMES. THE TRAFFIC SIGNAL WILL BE PUT ON FLASHING RED WHEN OFFICER IS PRESENT.

SPECIAL NOTES AND PROVISIONS:

1. BEGIN CONSTRUCTION ON DESIGN PACKAGE 2. DESIGN PACKAGE 1 CONSTRUCTION MAY BE CONCURRENT. LIMIT WORK TIME ON DESIGN PACKAGE 2 TO A MAXIMUM OF 3 MONTHS.
2. WORK MAY NOT BEGIN ON WELLMED PARKING LOT PRIOR JANUARY 1, 2018. COORDINATE WITH BUILDING MANAGER BEFORE CONSTRUCTION.
3. DO NOT CONSTRUCT FINAL HOTMIX LIFT UNTIL INSTRUCTED TO DO SO BY THE ENGINEER.
4. ALL CONFLICTING PAVEMENT MARKINGS MUST BE REMOVED.

PHASE I

1. INSTALL TEMPORARY EROSION CONTROL MEASURES.
2. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES INCLUDING PAVEMENT MARKINGS AND CHANNELIZATION DEVICES AS SHOWN IN THE PLANS FOR PHASE I AND IN ACCORDANCE WITH COSA AND TXDOT BC STANDARDS AND TMUTCD.
3. SHIFT TRAFFIC TO THE PROPOSED TCP PHASE I.
4. BEGIN UTILITY WORK FOR SAWS WATER. ALL UTILITY WORK FOR SAWS WATER THAT CANNOT BE COMPLETED IN PHASE I WILL BE COMPLETED IN PHASE II.
5. CONSTRUCT TRAFFIC SIGNAL AND REMOVE EXISTING SIGNAL. BAG PEDESTRIAN HEADS IN CONFLICT WITH WORK ZONE.
6. CONSTRUCT PHASE I AS SHOWN IN THE PLANS. BEGIN WORK AT DRAINAGE CHANNEL AND CONSTRUCT STORM DRAIN FROM DOWNSTREAM TO UPSTREAM. UTILITY WORK FOR SAWS WATER AND ROAD WORK (PHASE I) MAY BE CONCURRENT.
7. USE ONE-LANE TWO-WAY TRAFFIC CONTROL TCP (2-2)-12 FOR CONSTRUCTING LATERALS IF NEEDED
8. COMPLETE ALL WORK IN PHASE I BEFORE CONTINUING TO PHASE II.

PHASE II

1. INSTALL/ADJUST TEMPORARY EROSION CONTROL MEASURES.
2. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES INCLUDING PAVEMENT MARKINGS AND CHANNELIZATION DEVICES AS SHOWN IN THE PLANS FOR PHASE II AND IN ACCORDANCE WITH COSA AND TXDOT BC STANDARDS AND TMUTCD.
3. BAG PEDESTRIAN SIGNAL HEADS IN CONFLICT WITH WORK ZONE.
4. SHIFT TRAFFIC TO THE PROPOSED TCP PHASE II.
5. CONSTRUCT PHASE II AS SHOWN IN THE CONSTRUCTION PLANS. UTILITY WORK FOR SAWS WATER AND ROAD WORK (PHASE II) MAY BE CONCURRENT.
6. COMPLETE ALL WORK IN PHASE II BEFORE CONTINUING TO PHASE III.

PHASE III

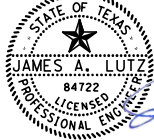
1. INSTALL/ADJUST TEMPORARY EROSION CONTROL MEASURES.
2. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES INCLUDING PAVEMENT MARKINGS AND CHANNELIZATION DEVICES AS SHOWN IN THE PLANS FOR PHASE III AND IN ACCORDANCE WITH COSA AND TXDOT BC STANDARDS AND TMUTCD.
3. BAG PEDESTRIAN SIGNAL HEADS IN CONFLICT WITH WORK ZONE.
4. SHIFT TRAFFIC TO THE PROPOSED TCP PHASE III.
5. CONSTRUCT PHASE III AS SHOWN IN THE PLANS. UTILITY AND ROAD WORK (PHASE III) MAY BE CONCURRENT.
6. UPON COMPLETION OF PHASE III, MILL AND OVERLAY ACCORDING TO LIMITS ON PLANS. MARKING TABS ARE TO BE USED AS TRAFFIC LANE DELINEATORS UNTIL FINAL STRIPING HAS BEEN COMPLETED.
7. STRIPE ROADWAY TO ITS ULTIMATE CONFIGURATION.

DESIGN



Luke Reed
LUKE REED, P.E.
DATE 8/7/2017

REVIEW & APPROVAL



James A. Lutz
JAMES A. LUTZ, P.E.
DATE 8/7/2017



SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800



CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

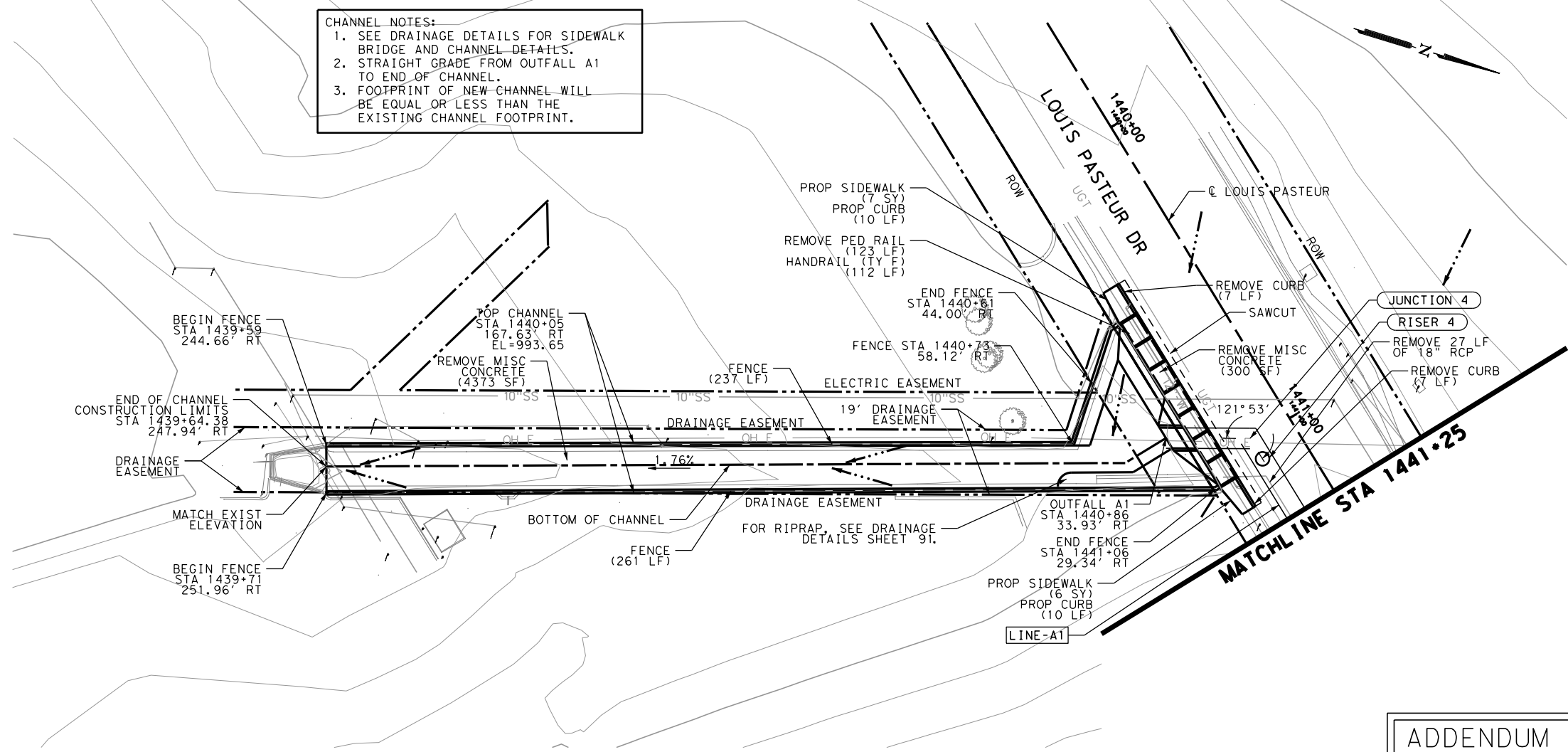
MEDICAL CENTER PHASE X
LOUIS PASTEUR & EWING HALSELL
TRAFFIC CONTROL PLAN
NARRATIVE AND SPECIAL NOTES

DESIGN PACKAGE 1

| | | |
|-----------------|----------------------|----------------|
| 100 % SUBMITTAL | PROJECT NO.: 5241-46 | DATE: 8/7/2017 |
| DRWN. BY: JG | DSGN. BY: JG | CHKD. BY: LR |
| | | SHEET NO.: 15 |

ADDENDUM NO. 01

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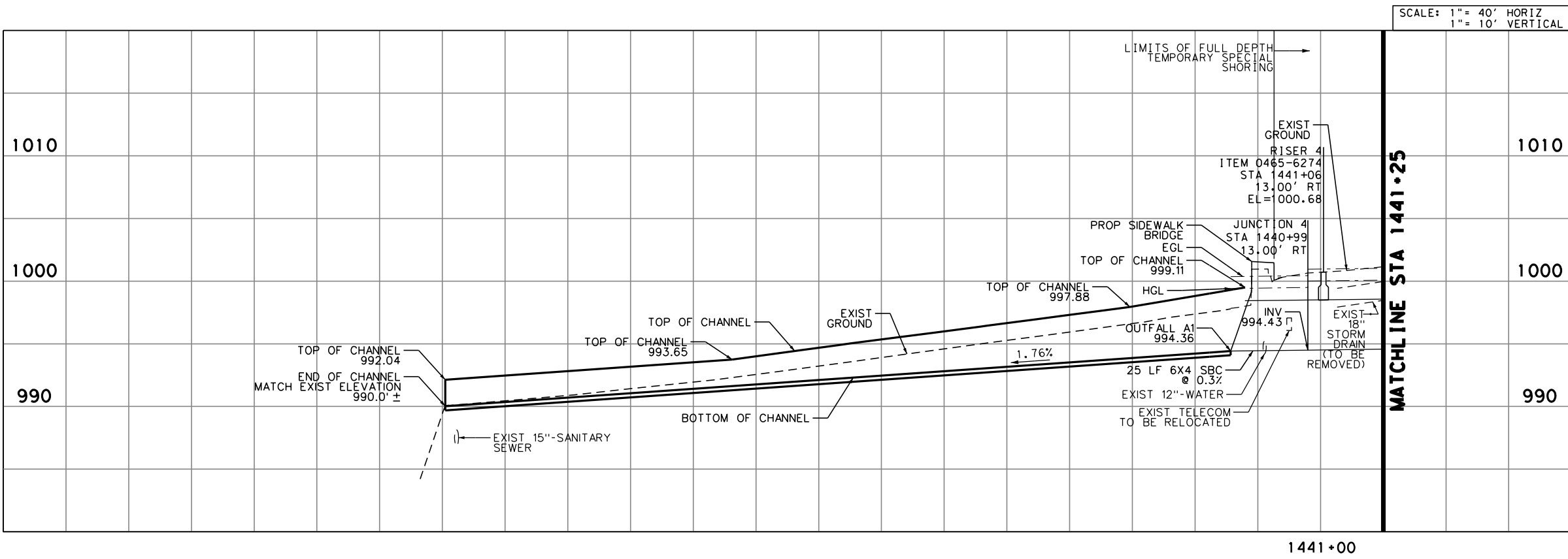


- CHANNEL NOTES:
- 1. SEE DRAINAGE DETAILS FOR SIDEWALK BRIDGE AND CHANNEL DETAILS.
 - 2. STRAIGHT GRADE FROM OUTFALL A1 TO END OF CHANNEL.
 - 3. FOOTPRINT OF NEW CHANNEL WILL BE EQUAL OR LESS THAN THE EXISTING CHANNEL FOOTPRINT.

- NOTES:
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 - 4. REFER TO SAN ANTONIO DISTRICT STDs FOR INLET CONTROL POINTS
 - 5. SEE HORIZONTAL ALIGNMENT SHEETS FOR ROADWAY ALIGNMENT.
 - 6. SHORING OF EXIST POLES SUBSIDIARY TO INLET & MANHOLE ITEMS.
 - 7. INLETS AND MANHOLES TO BE GROUTED TO PROVIDE POSITIVE DRAINAGE. SUBSIDIARY TO INLET AND MANHOLE ITEMS.
 - 8. MANHOLE LIDS TO BE BOLTED AND PLACED AT FINISHED GRADE AND OUTSIDE OF NORMAL WHEEL PATH (CENTER OF LANE).
 - 9. MANUFACTURER TO PROVIDE DESIGN OF NON-STANDARD BOX SIZES AND DETAILS FOR EQUALIZATION OPENINGS.
 - 10. ALL STORM DRAIN SYSTEMS TO BE INSTALLED IN ACCORDANCE WITH TXDOT ITEM 402 "TRENCH EXCAVATION PROTECTION."
 - 11. ALL INLET STATION, OFFSET, AND ELEVATION REFERENCES ARE TO THE INLET STRUCTURE CONTAINING THE DOWNSTREAM LATERAL/PIPE.
 - 12. KNOCKOUTS BETWEEN CONNECTING INLETS TO MAINTAIN A MINIMUM OPENING OF 3.6' x 2.0' FOR CONVEYANCE.
 - 13. INSTALL CURB INLETS AT THE SAME LONGITUDINAL SLOPE AS ROADWAY PROFILE.
 - 14. CONCRETE COLLARS SHALL BE CONSIDERED SUBSIDIARY TO VARIOUS DRAINAGE ITEMS.

- LEGEND
- LINE-A1 STORM DRAIN LINE W/ DESIGNATION
 - DI-A1 DROP INLET W/ DESIGNATION
 - MH-A1 JUNCTION BOX W/ DESIGNATION
 - > DRAINAGE FLOW ARROW
 - OH E OVERHEAD ELECTRIC LINE
 - 10" SS SANITARY SEWER LINE
 - 8"-G CPS GAS LINE
 - UGE UNDERGROUND ELECTRIC
 - 12" W WATER LINE
 - 24" RW RECYCLED WATER LINE
 - [Symbol] DRAINAGE INLET
 - [Symbol] MANHOLE

ADDENDUM NO. 01



SCALE: 1" = 40' HORIZ
1" = 10' VERTICAL

DESIGN

STATE OF TEXAS
LUKE REED
101242
LICENSED PROFESSIONAL ENGINEER
LUKE REED, P.E.
8/16/2017
DATE

REVIEW & APPROVAL

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
JAMES A. LUTZ, P.E.
8/16/2017
DATE

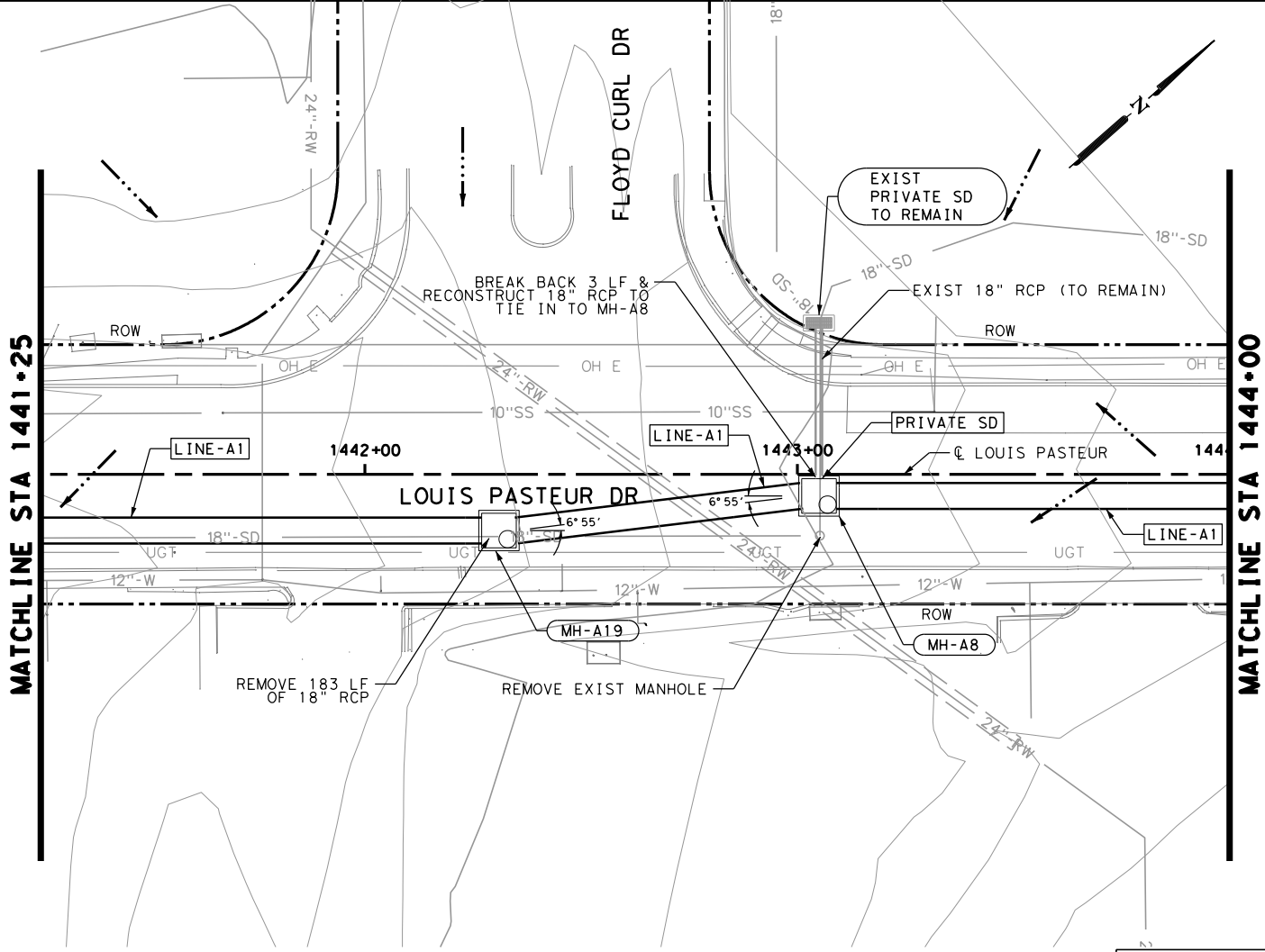
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SCALE: 1" = 40'

PAPE-DAWSON ENGINEERS
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CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

**MEDICAL CENTER PHASE X
LOUIS PASTEUR & EWING HALSELL
STORM DRAIN PLAN AND PROFILE**

| DESIGN PACKAGE 1 | | | SHEET 1 OF 7 | |
|------------------|----------------------|--------------|---------------|--|
| 100 % SUBMITTAL | PROJECT NO.: 5241-46 | DATE: | 8/16/2017 | |
| DRWN. BY: JG | DSGN. BY: JG | CHKD. BY: LR | SHEET NO.: 83 | |

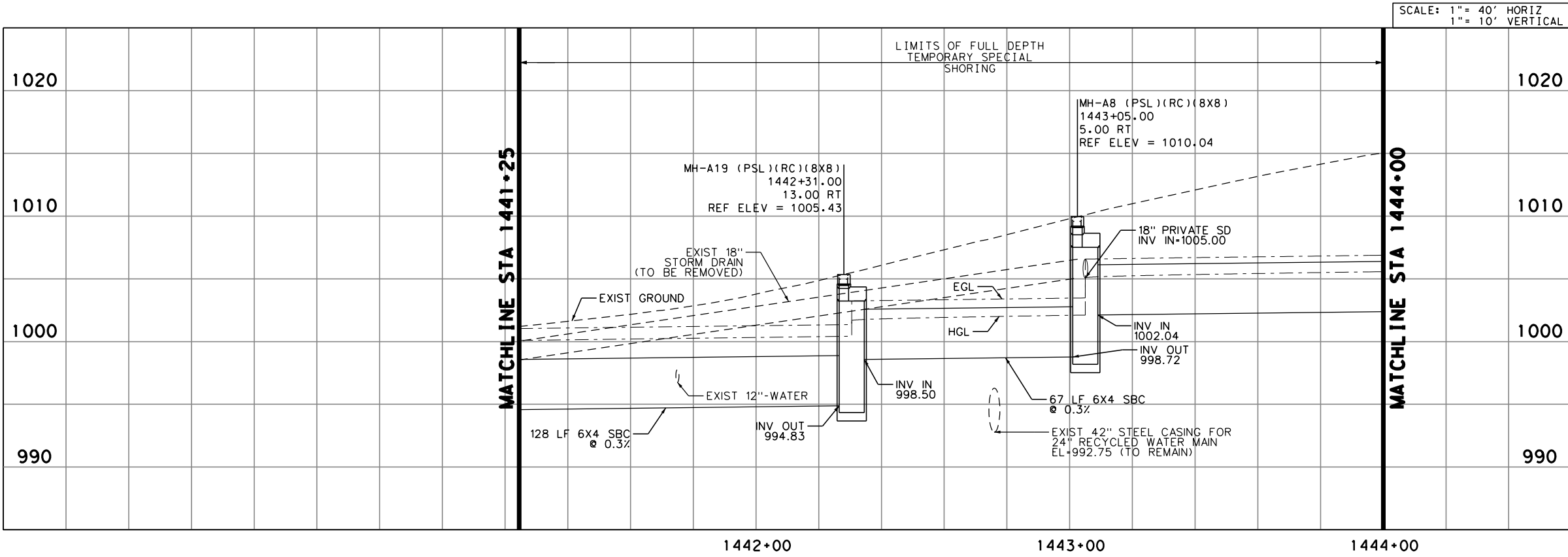


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LEGEND

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DI-A1 DROP INLET W/ DESIGNATION
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--- OH E --- OVERHEAD ELECTRIC LINE
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[Symbol] DRAINAGE INLET
[Symbol] MANHOLE

ADDENDUM NO. 01

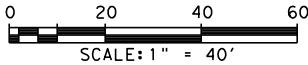


DESIGN

LUKE REED
101242
LICENSED PROFESSIONAL ENGINEER
8/16/2017
DATE

REVIEW & APPROVAL

JAMES A. LUTZ
8472
LICENSED PROFESSIONAL ENGINEER
8/16/2017
DATE



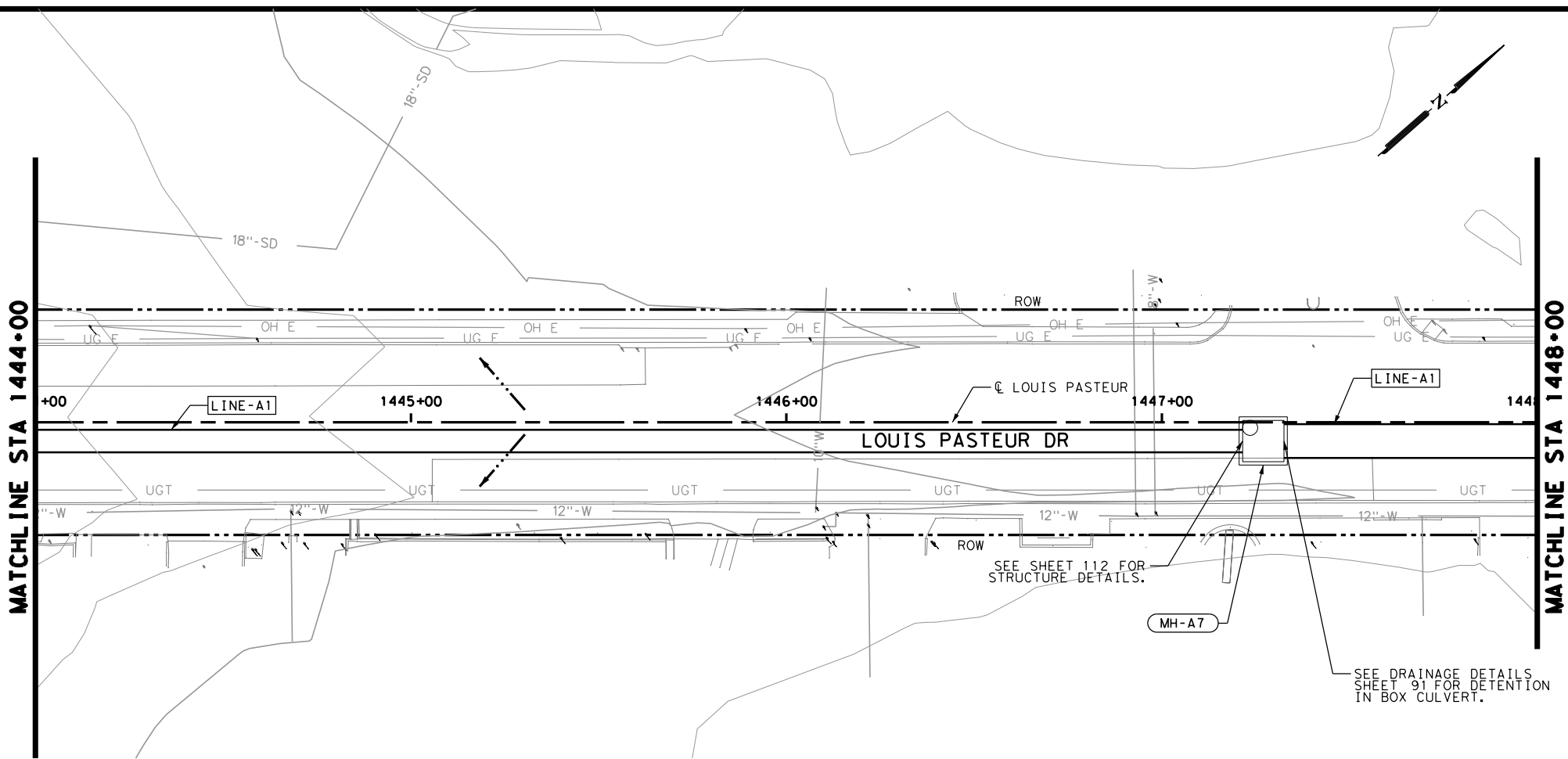
PAPE-DAWSON ENGINEERS

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CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

MEDICAL CENTER PHASE X
LOUIS PASTEUR & EWING HALSELL
STORM DRAIN PLAN AND PROFILE

| DESIGN PACKAGE 1 | | | SHEET 2 OF 7 | |
|------------------|----------------------|--------------|---------------|--|
| 100 % SUBMITTAL | PROJECT NO.: 5241-46 | DATE: | 8/16/2017 | |
| DRWN. BY: JG | DSGN. BY: JG | CHKD. BY: LR | SHEET NO.: 84 | |



- NOTES:
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LEGEND

- | | |
|----------|---------------------------------|
| LINE-A1 | STORM DRAIN LINE W/ DESIGNATION |
| DI-A1 | DROP INLET W/ DESIGNATION |
| MH-A1 | JUNCTION BOX W/ DESIGNATION |
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| 12" W | WATER LINE |
| 24" RW | RECYCLED WATER LINE |
| [Symbol] | DRAINAGE INLET |
| [Symbol] | MANHOLE |

ADDENDUM NO. 01

DESIGN



REVIEW & APPROVAL



**PAPE-DAWSON
ENGINEERS**

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
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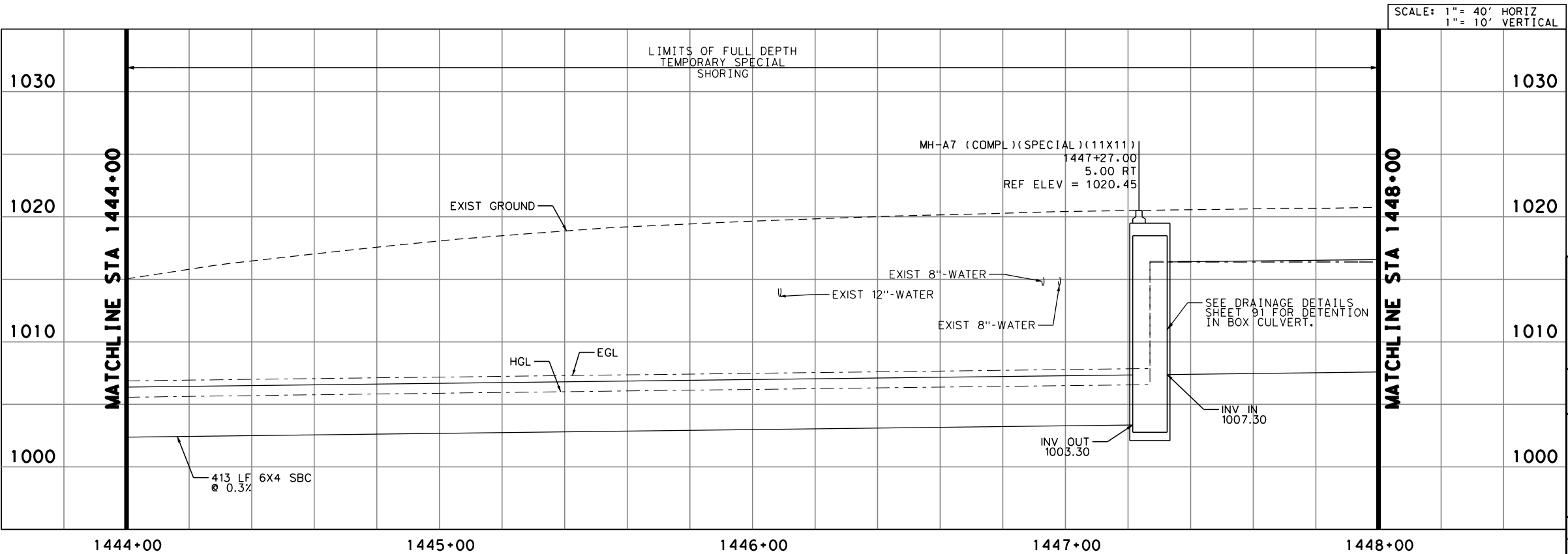
CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

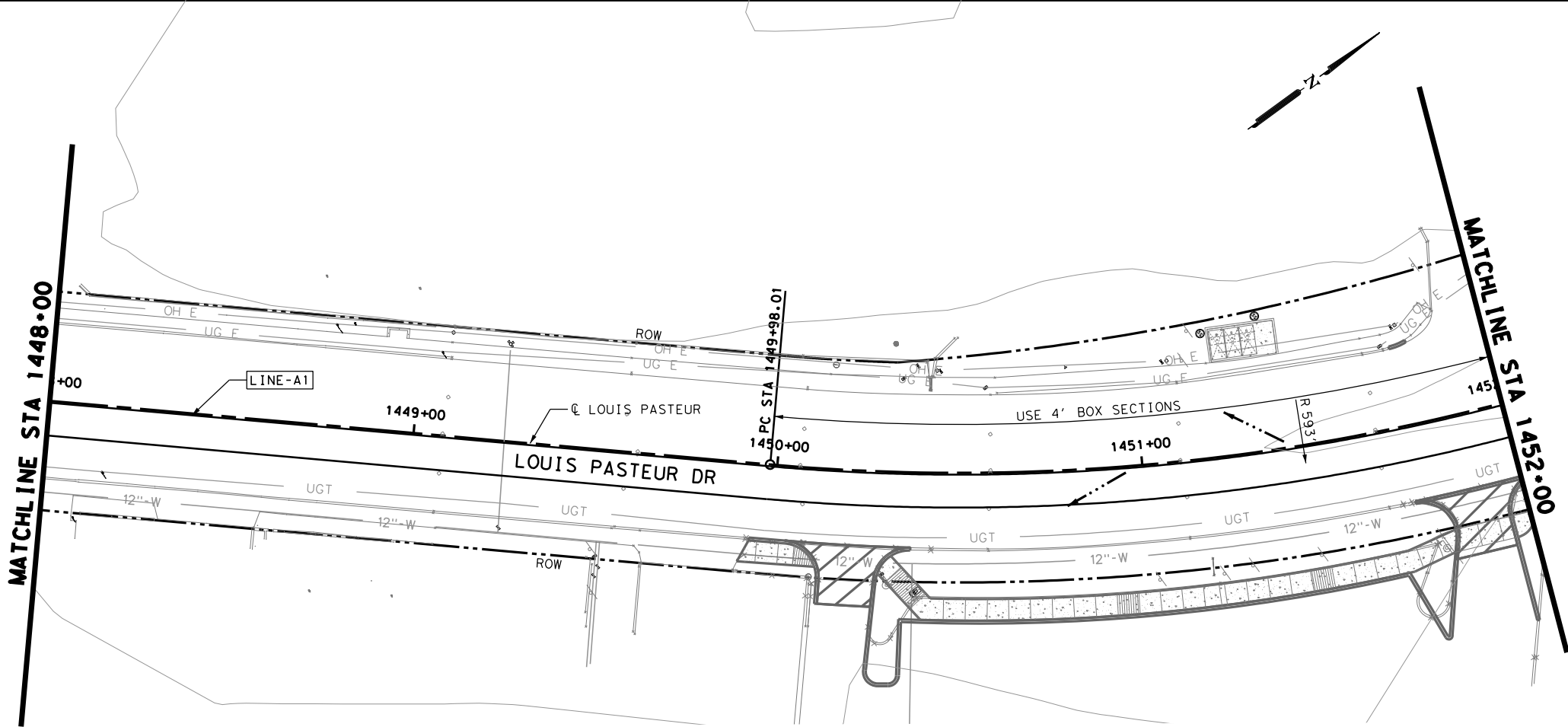
**MEDICAL CENTER PHASE X
LOUIS PASTEUR & EWING HALSELL
STORM DRAIN PLAN AND PROFILE**

DESIGN PACKAGE 1

SHEET 3 OF 7

| | | |
|-----------------|----------------------|-----------------|
| 100 % SUBMITTAL | PROJECT NO.: 5241-46 | DATE: 8/16/2017 |
| DRWN. BY: JG | DSGN. BY: JG | CHKD. BY: LR |
| | | SHEET NO.: 85 |



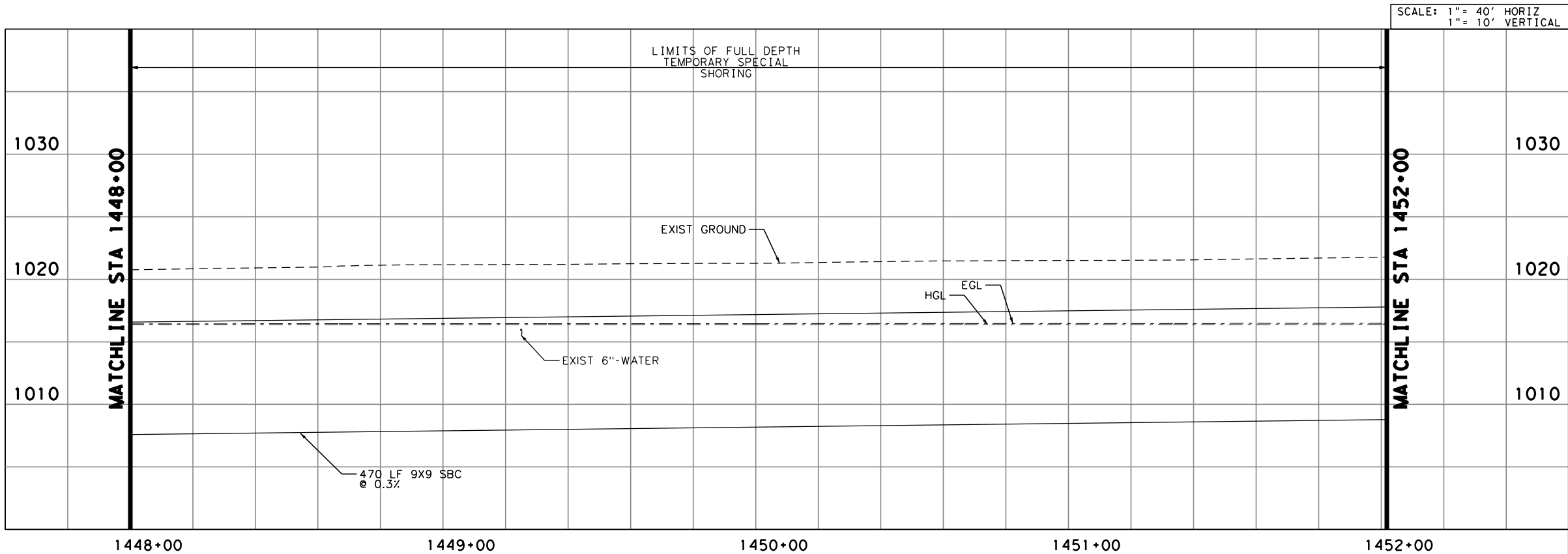


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--- 24" RW --- RECYCLED WATER LINE
[Symbol] DRAINAGE INLET
[Symbol] MANHOLE

ADDENDUM NO. 01



SCALE: 1" = 40' HORIZ
1" = 10' VERTICAL

DESIGN

LUKE REED
101242
LICENSED PROFESSIONAL ENGINEER
8/16/2017
DATE

REVIEW & APPROVAL

JAMES A. LUTZ
84722
LICENSED PROFESSIONAL ENGINEER
8/16/2017
DATE

0 20 40 60
SCALE: 1" = 40'

**PAPE-DAWSON
ENGINEERS**

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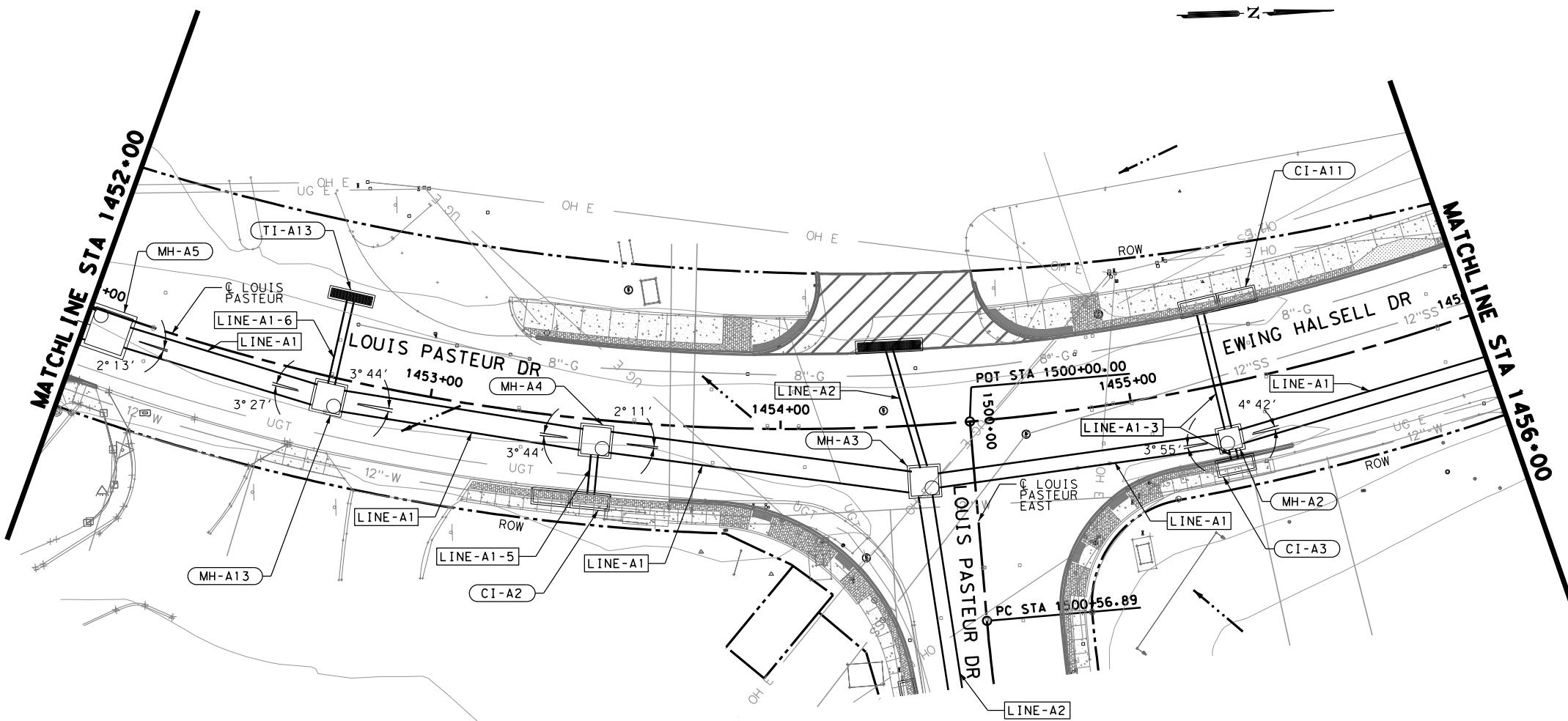
CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

**MEDICAL CENTER PHASE X
LOUIS PASTEUR & EWING HALSELL
STORM DRAIN PLAN AND PROFILE**

DESIGN PACKAGE 1 SHEET 4 OF 7

| | | |
|-----------------|----------------------|-----------------|
| 100 % SUBMITTAL | PROJECT NO.: 5241-46 | DATE: 8/16/2017 |
| DRWN. BY: JG | DSGN. BY: JG | CHKD. BY: LR |
| SHEET NO.: 86 | | |

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FOR LINE A2 INFORMATION, SEE SHEET 89.

ADDENDUM NO. 01

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DESIGN

LUKE REED, P.E.
8/16/2017
DATE

REVIEW & APPROVAL

JAMES A. LUTZ, P.E.
8/16/2017
DATE

SCALE: 1" = 40'
0 20 40 60

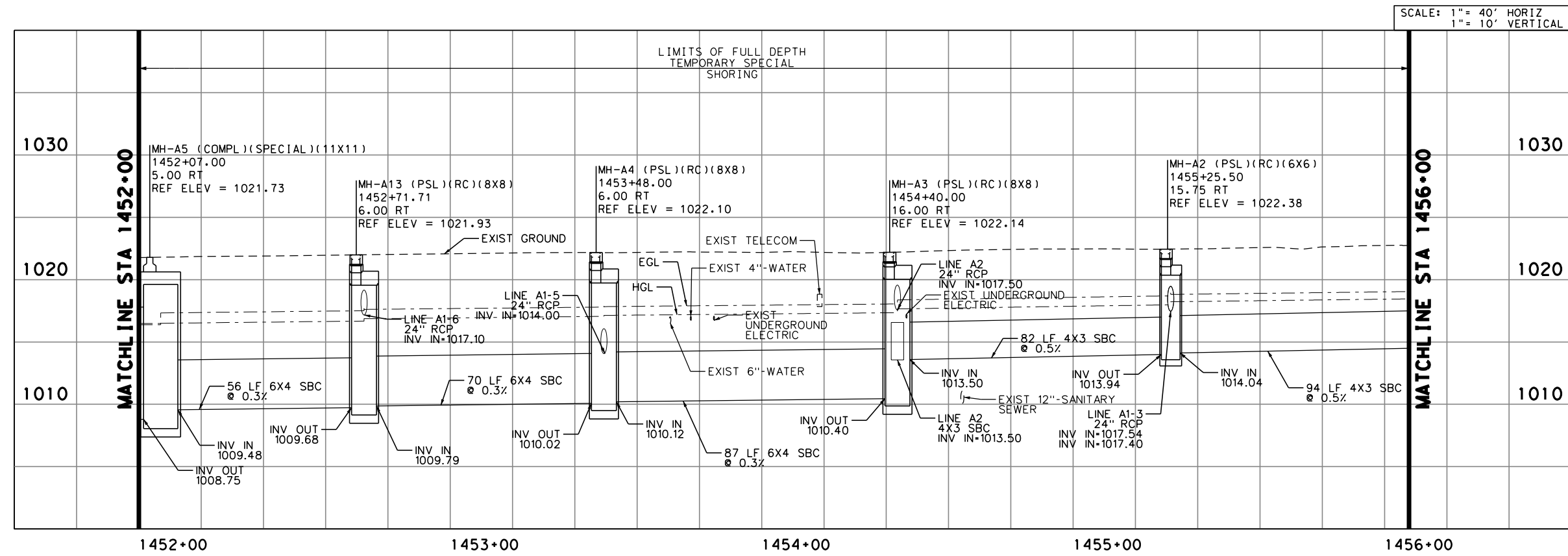
PAPE-DAWSON ENGINEERS

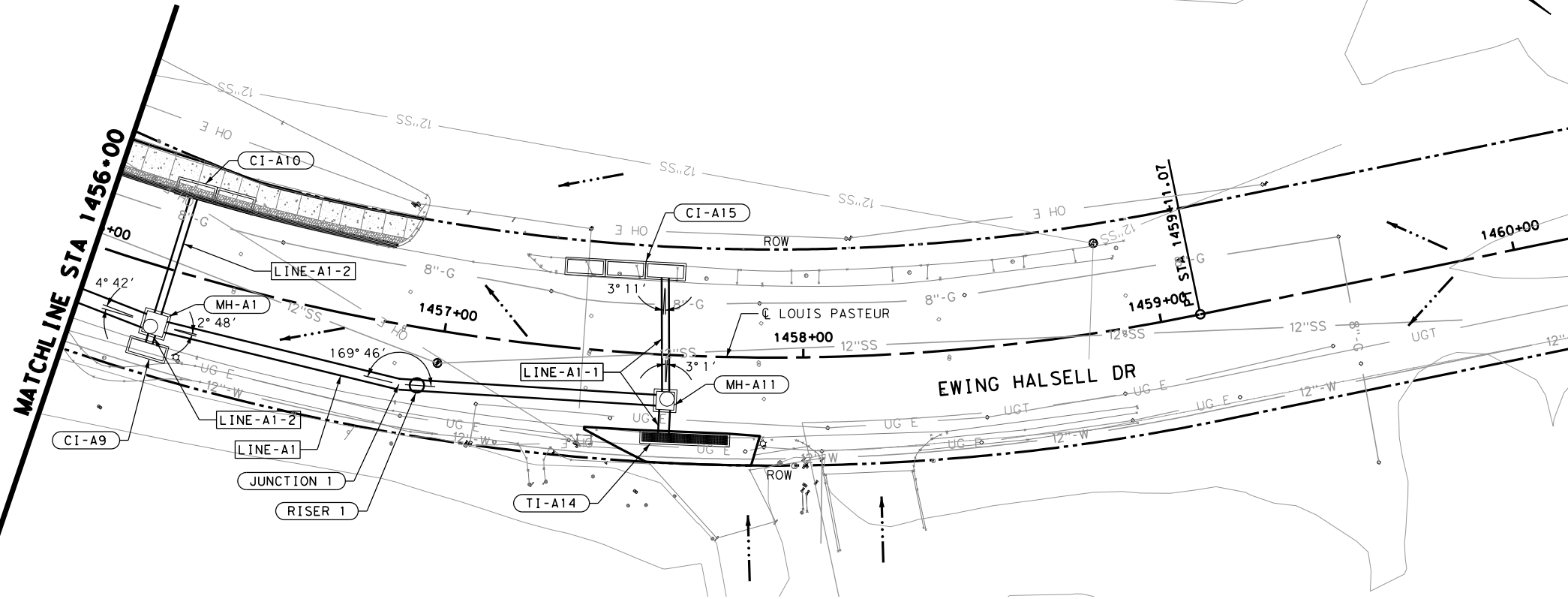
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TBP FIRM REGISTRATION #470 | TBP FIRM REGISTRATION #10028800

CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

MEDICAL CENTER PHASE X
LOUIS PASTEUR & EWING HALSELL
STORM DRAIN PLAN AND PROFILE

| DESIGN PACKAGE 1 | | | SHEET 5 OF 7 | |
|------------------|----------------------|-----------------|---------------|--|
| 100 % SUBMITTAL | PROJECT NO.: 5241-46 | DATE: 8/16/2017 | | |
| DRWN. BY: JG | DSGN. BY: JG | CHKD. BY: LR | SHEET NO.: 87 | |





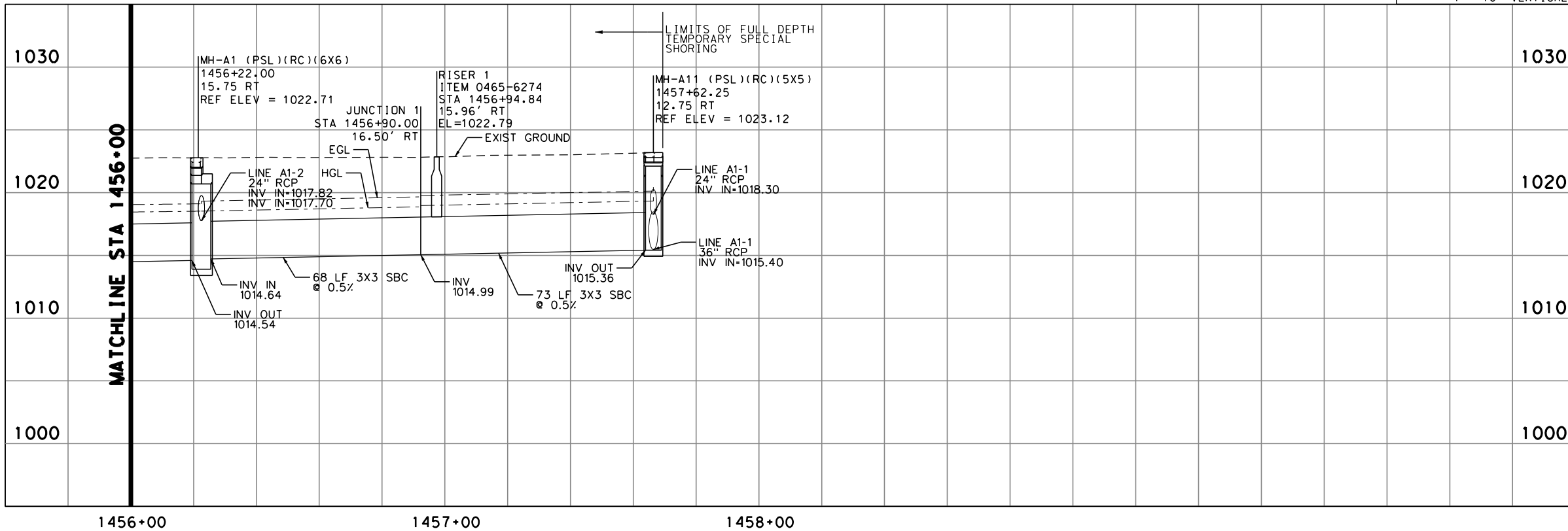
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ADDENDUM NO. 01

SCALE: 1" = 40' HORIZ
1" = 10' VERTICAL



DESIGN

LUKE REED, P.E.
8/16/2017
DATE

REVIEW & APPROVAL

JAMES A. LUTZ, P.E.
8/16/2017
DATE

0 20 40 60
SCALE: 1" = 40'

**PAPE-DAWSON
ENGINEERS**

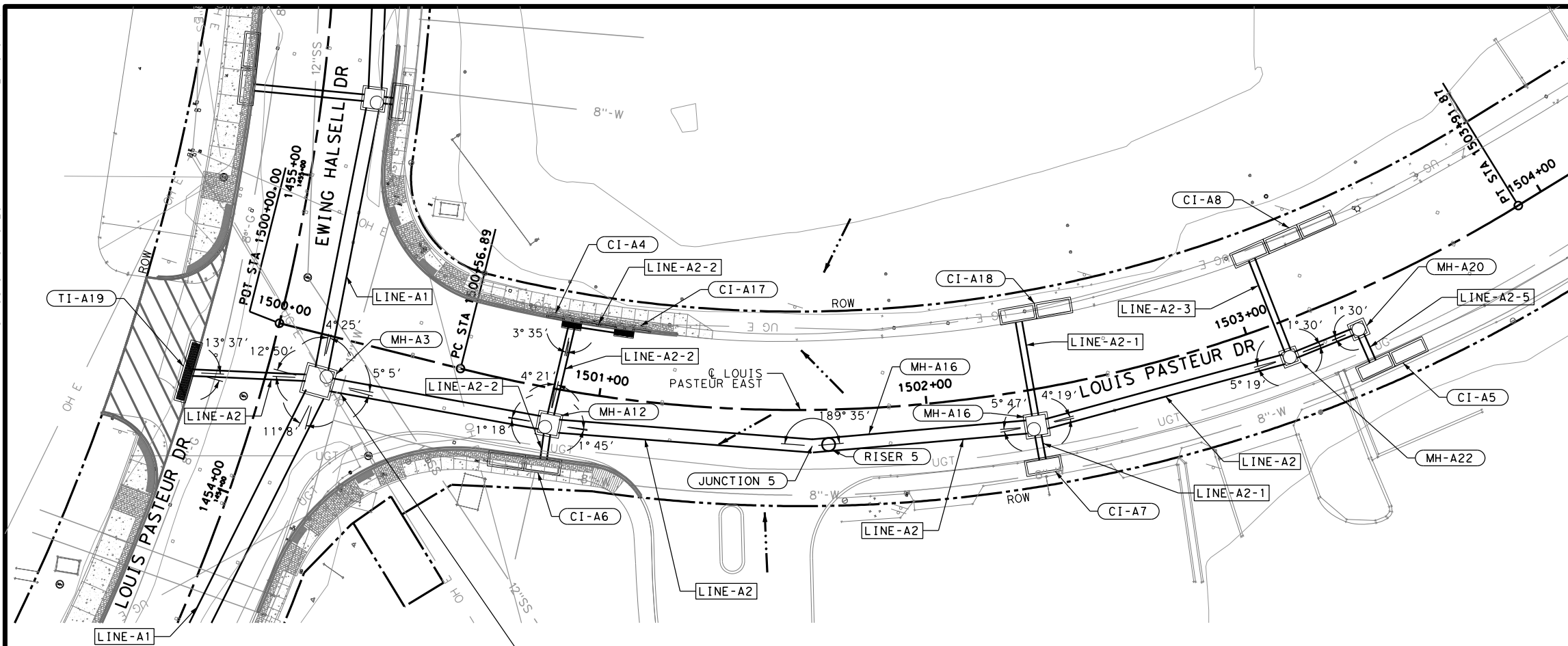
SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800

CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

**MEDICAL CENTER PHASE X
LOUIS PASTEUR & EWING HALSELL
STORM DRAIN PLAN AND PROFILE**

DESIGN PACKAGE 1 SHEET 6 OF 7

| | | |
|-----------------|----------------------|-----------------|
| 100 % SUBMITTAL | PROJECT NO.: 5241-46 | DATE: 8/16/2017 |
| DRWN, BY: JG | DSGN, BY: JG | CHKD, BY: LR |
| SHEET NO.: 88 | | |



THIS SHEET CONTAINS LINE A2
INFORMATION ONLY. SEE PREVIOUS
DRAINAGE SHEETS FOR LINE A1

COORDINATE WITH SAWS TO REPLACE
12" WATER MAIN BEFORE BOX CULVERT
INSTALLATION. SEE SAWS WATER PLANS
FOR CONCRETE ENCASEMENT AND OTHER
DETAILS.

ADDENDUM NO. 01

NOTES:

1. ALL PIPES ARE NORMAL TO AND STRAIGHT FROM STRUCTURE TO STRUCTURE UNLESS OTHERWISE SHOWN.
2. ALL EXISTING FEATURES ARE SHOWN SCREENED BACK, i.e. FADED.
3. THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES INDICATED IN THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR SHALL VERIFY ACTUAL LOCATION PRIOR TO BEGINNING CONSTRUCTION.
4. REFER TO SAN ANTONIO DISTRICT STDS FOR INLET CONTROL POINTS
5. SEE HORIZONTAL ALIGNMENT SHEETS FOR ROADWAY ALIGNMENT.
6. SHORING OF EXIST POLES SUBSIDIARY TO INLET & MANHOLE ITEMS.
7. INLETS AND MANHOLES TO BE GROUTED TO PROVIDE POSITIVE DRAINAGE, SUBSIDIARY TO INLET AND MANHOLE ITEMS.
8. MANHOLE LIDS TO BE BOLTED AND PLACED AT FINISHED GRADE AND OUTSIDE OF NORMAL WHEEL PATH (CENTER OF LANE).
9. MANUFACTURER TO PROVIDE DESIGN OF NON-STANDARD BOX SIZES AND DETAILS FOR EQUALIZATION OPENINGS.
10. ALL STORM DRAIN SYSTEMS TO BE INSTALLED IN ACCORDANCE WITH TXDOT ITEM 402 "TRENCH EXCAVATION PROTECTION."
11. ALL INLET STATION, OFFSET, AND ELEVATION REFERENCES ARE TO THE INLET STRUCTURE CONTAINING THE DOWNSTREAM LATERAL/PIPE.
12. KNOCKOUTS BETWEEN CONNECTING INLETS TO MAINTAIN A MINIMUM OPENING OF 3.6' x 2.0' FOR CONVEYANCE.
13. INSTALL CURB INLETS AT THE SAME LONGITUDINAL SLOPE AS ROADWAY PROFILE.
14. CONCRETE COLLARS SHALL BE CONSIDERED SUBSIDIARY TO VARIOUS DRAINAGE ITEMS.

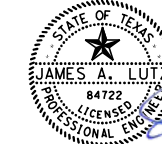
LEGEND

| | |
|----------|---------------------------------|
| LINE-A1 | STORM DRAIN LINE W/ DESIGNATION |
| DI-A1 | DROP INLET W/ DESIGNATION |
| MH-A1 | JUNCTION BOX W/ DESIGNATION |
| --- | DRAINAGE FLOW ARROW |
| OH E | OVERHEAD ELECTRIC LINE |
| 10" SS | SANITARY SEWER LINE |
| 8" G | CPS GAS LINE |
| UGE | UNDERGROUND ELECTRIC |
| 12" W | WATER LINE |
| 24" RW | RECYCLED WATER LINE |
| [Symbol] | DRAINAGE INLET |
| [Symbol] | MANHOLE |

DESIGN



REVIEW & APPROVAL



0 20 40 60
SCALE: 1" = 40'

**PAPE-DAWSON
ENGINEERS**

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
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CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

**MEDICAL CENTER PHASE X
LOUIS PASTEUR & EWING HALSELL
STORM DRAIN PLAN AND PROFILE**

DESIGN PACKAGE 1

SHEET 7 OF 7

| | | |
|-----------------|----------------------|-----------------|
| 100 % SUBMITTAL | PROJECT NO.: 5241-46 | DATE: 8/16/2017 |
| DRWN BY: JG | DSGN BY: JG | CHKD BY: LR |
| | | SHEET NO.: 89 |


| ITEM | DESCRIPTION | UNIT | QTY |
|----------|--|------|------|
| 308.1 | DRILLED SHAFTS (24") | LF | 36 |
| 308.1 | DRILLED SHAFTS (36") | LF | 70 |
| ** 615.1 | TRAFFIC SIGNAL CONTROLLER ASSEMBLY (TYPE 332 CABINET) | EA | 1 |
| 618.1 | CONDUIT (2 INCH/PVC SCHEDULE 40) (TRENCH) | LF | 545 |
| 618.2 | CONDUIT (3 INCH/PVC SCHEDULE 40) (TRENCH) | LF | 125 |
| 618.4 | CONDUIT (2 INCH/PVC SCHEDULE 40) (BORE) | LF | 350 |
| 618.5 | CONDUIT (3 INCH/PVC SCHEDULE 40) (BORE) | LF | 695 |
| 620.1 | ELECTRICAL CONDUCTORS (NO. 6) (BARE) | LF | 15 |
| 620.2 | ELECTRICAL CONDUCTORS (NO. 8) (BARE) | LF | 1585 |
| 620.3 | ELECTRICAL CONDUCTORS (NO. 6) (INSULATED) | LF | 25 |
| 624.8 | GROUND BOXES TYPE D (162922) W/ APRON | EA | 4 |
| 628.1 | ELECTRICAL SERVICES (PER INSTALLATION) | EA | 1 |
| 628.2 | REMOVE ELECTRICAL SERVICES (PER REMOVAL) | EA | 1 |
| 633.1 | BATTERY BACKUP SYSTEM | EA | 1 |
| 655.1 | TYPE 332 CONTROLLER FOUNDATION | EA | 1 |
| 680.1 | INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (SYSTEM) | EA | 1 |
| 682.1 | INSTALL VEHICLE SIGNAL SECTION WITH BACK PLATE (3 SECTION) | EA | 10 |
| 682.3 | INSTALL VEHICLE SIGNAL SECTION WITH BACK PLATE (5 SECTION) | EA | 1 |
| 682.4 | INSTALL PEDESTRIAN SIGNAL SECTION (12 INCH) LED (2 IND) | EA | 8 |
| 683.1 | LED COUNTDOWN PEDESTRIAN MODULE | EA | 8 |
| 684.1 | TRAFFIC SIGNAL CABLES (TYPE A) (12 AWG) (CONDUCTOR NO. 3) (TRAY CABLE) | LF | 1355 |
| 684.1 | TRAFFIC SIGNAL CABLES (TYPE A) (14 AWG) (CONDUCTOR NO. 9) | LF | 2820 |
| 684.1 | TRAFFIC SIGNAL CABLES (TYPE A) (16 AWG) (CONDUCTOR NO. 3) | LF | 1125 |
| * 686.1 | INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (STR TY B) (LUM) | EA | 5 |
| 687.1 | PEDESTAL POLE ASSEMBLY | EA | 6 |
| 688.2 | PEDESTRIAN DETECTORS [2 INCH PUSH BUTTON] | EA | 8 |
| 688.3 | AUDIBLE PEDESTRIAN SIGNAL UNITS [TYPE] | EA | 8 |
| 695.2 | EMERGENCY PREEMPTION PHASE SELECTOR | EA | 4 |
| 695.3 | EMERGENCY PREEMPTION DETECTOR | EA | 4 |
| 695.4 | EMERGENCY PREEMPTION DETECTOR CABLE | LF | 620 |
| 696.1 | RADAR ADVANCED DETECTION DEVICE (RADD) | EA | 3 |
| 696.2 | RADAR PRESENCE DETECTION DEVICE (RPDD) | EA | 4 |
| 696.3 | RADAR ADVANCED DETECTION DEVICE (RADD) COMMUNICATION & POWER CABLE(S) | LF | 505 |
| 696.4 | RADAR PRESENCE DETECTION DEVICE (RPDD) COMMUNICATION & POWER CABLE(S) | LF | 825 |
| 6007.1 | REMOVAL OF TRAFFIC SIGNALS AT INTERSECTION | EA | 1 |
| 8100.1 | Install ITS Traffic Monitoring Camera Assembly | EA | 1 |
| 8100.2 | Install ITS Traffic Monitoring Camera Cabling | LF | 95 |

* SIGNAL POLE & MAST ARM ASSEMBLIES ARE TO BE COSA SPECIAL STMC STYLE MAST ARM ASSEMBLY W/2 LUMINAIRES. GENERAL DETAILS ARE PROVIDED IN THE PLAN SET. DETAILED SHOP DRAWINGS SEALED BY A TEXAS LICENSED ENGINEER SHALL BE PROVIDED BY THE CONTRACTOR FOR APPROVAL BY THE CITY OF SAN ANTONIO PRIOR TO FABRICATION. EXTRA 35 FT MAST ARM AND SIGNAL POLE ASSEMBLY TO BE PROVIDED TO CITY AS SPARE PER INCLUDED VALMONT SHOP DRAWING NUMBER: TX4467604


** CONTRACTOR TO FURNISH AND DELIVER CONTROLLER AND CABINET ASSEMBLY TO COSA SHOP FOR PROGRAMMING AND TESTING FOUR WEEKS PRIOR TO CONTRACTOR INSTALLING EQUIPMENT IN THE FIELD.

2070 CONTROLLER & NEXT PHASE SOFTWARE TO BE PROVIDED WITH ITEM 615. THE CONTRACTOR SHALL SUPPLY A CONFLICT MONITOR THAT CONFORMS TO THE TEES SPECIFICATION FOR MODEL 2070L CONTROLLER. THE CONFLICT MONITOR SHALL BE EDI, MODEL 2018 KCLIP, OR APPROVED EQUAL.

ADDENDUM NO. 01



SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
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CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

MEDICAL CENTER PHASE X
LOUIS PASTEUR & EWING HALSELL
TRAFFIC SIGNAL
SUMMARY

DESIGN PACKAGE 1

| | | |
|-----------------|----------------------|-----------------|
| 100 % SUBMITTAL | PROJECT NO.: 5241-46 | DATE: 8/16/2017 |
| DRWN. BY: CBC | DSGN. BY: JWC | CHKD. BY: LR |
| | | SHEET NO.: 148 |

9:05:16 AM
Plotted on: 8/16/2017
Design File name: P:\52\41\49\design\Civil\General\524149EST_QTY_ADD01.dgn

DESIGN PACKAGE 2 QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | QTY | ITEM NO. | DESCRIPTION | UNIT | QTY | ITEM NO. | DESCRIPTION | UNIT | QTY |
|----------------------|---|------|-------|----------------|---|------|-------|-------------------------------|---------------------------------------|------|-----|
| TRAFFIC CONTROL PLAN | | | | TRAFFIC SIGNAL | | | | SIGNING AND PAVEMENT MARKINGS | | | |
| CoSA | | | | CoSA | | | | CoSA | | | |
| 5300.2 | OFF-DUTY POLICE OFFICERS | HR | 80 | 307.1 | CONCRETE STRUCTURE (FOUNDATION) | CY | 0.3 | 531.1 | COSA SIGNS | EA | 3 |
| TXDOT | | | | 308.1 | DRILLED SHAFTS (48") | LF | 22 | 535.1 | 4 INCH WIDE YELLOW LINE | LF | 71 |
| 0502-6001 | BARRICADES, SIGNS AND TRAFFIC HANDLING | MO | 3 | 618.1 | CONDUIT (2 INCH/PVC SCHEDULE 40) (TRENCH) | LF | 40 | 535.2 | 4 INCH WIDE WHITE LINE | LF | 80 |
| 0662-6071 | WK ZN PAV MRK REMOV (W) 8" (SLD) | LF | 230 | 618.2 | CONDUIT (3 INCH/PVC SCHEDULE 40) (TRENCH) | LF | 210 | 535.4 | 8 INCH WIDE WHITE LINE | LF | 452 |
| 0662-6080 | WK ZN PAV MRK REMOV (W) (ARROW) | EA | 2 | 620.2 | ELECTRICAL CONDUCTORS (NO. 8) (BARE) | LF | 510 | 535.7 | 24 INCH WIDE WHITE LINE | LF | 325 |
| 0662-6090 | WK ZN PAV MRK REMOV (W) (WORD) | EA | 2 | 624.8 | GROUND BOXES TYPE D (162922) | EA | 1 | 535.8 | RIGHT WHITE ARROW | EA | 3 |
| | | | | 633.1 | BATTERY BACKUP SYSTEM | EA | 1 | 535.9 | LEFT WHITE ARROW | EA | 3 |
| | | | | 680.2 | INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (SYSTEM) | EA | 1 | 535.11 | COMBINATION THRU/LEFT WHITE ARROW | EA | 3 |
| | | | | 682.1 | INSTALL VEHICLE SIGNAL SECTION WITH BACK PLATE (3 SECTION) | EA | 3 | 535.12 | WORD "ONLY" | EA | 2 |
| CoSA | ROADWAY | | | | | | | 537.6 | PAVEMENT MARKER (TYPE I C) | EA | 31 |
| 103.1 | REMOVE CONCRETE CURB | LF | 629 | 682.2 | INSTALL VEHICLE SIGNAL SECTION WITH BACK PLATE (4 SECTION) | EA | 3 | 537.8 | PAVEMENT MARKER (TYPE II A A) | EA | 4 |
| 103.3 | REMOVE SIDEWALKS AND DRIVEWAYS | SF | 2,600 | 682.3 | INSTALL VEHICLE SIGNAL SECTION WITH BACK PLATE (5 SECTION) | EA | 2 | TXDOT | | | |
| 103.4 | REMOVE MISCELLANEOUS CONCRETE | SF | 29 | | | | | 0677-6001 | ELIM EXT PAV MRK & MRKS (4") | LF | 4 |
| 104.1 | STREET EXCAVATION | CY | 588 | 682.4 | INSTALL PEDESTRIAN SIGNAL SECTION (12 INCH) LED (2 IND) | EA | 2 | 0677-6003 | ELIM EXT PAV MRK & MRKS (8") | LF | 4 |
| 203.1 | TACK COAT | GAL | 75 | 683.1 | LED COUNTDOWN PEDESTRIAN MODULE | EA | 2 | 0677-6007 | ELIM EXT PAV MRK & MRKS (24") | LF | 184 |
| 205.3 | HOT MIX ASPHALTIC PAVEMENT TY C 2 IN. PAV THICKNESS | SY | 741 | 684.1 | TRAFFIC SIGNAL CABLES (TYPE A) (12 AWG) (CONDUCTOR NO. 3) (TRAY CABLE) | LF | 175 | 0677-6017 | ELIM EXT PAV MRK & MRKS (SYMBOL) | EA | 4 |
| 208.1 | SALVAGING, HAULING & STOCKPILING RECLAIM ASPH PAV 2 IN. | SY | 270 | | | | | | | | |
| 209.2 | BUS STOP CONCRETE PAD | SY | 270 | 684.1 | TRAFFIC SIGNAL CABLES (TYPE A) (14 AWG) (CONDUCTOR NO. 4) | LF | 170 | | STORM WATER POLLUTION PREVENTION PLAN | | |
| 500.1 | CONCRETE CURB | LF | 420 | | | | | CoSA | | | |
| 506.1 | CONCRETE RETAINING WALLS COMBINATION TYPE | CY | 24 | 684.1 | TRAFFIC SIGNAL CABLES (TYPE A) (14 AWG) (CONDUCTOR NO. 9) | LF | 285 | 540.10 | CURB INLET GRAVEL FILTERS | LF | 28 |
| 511.3 | REPLACING WITH HOT MIX ASPHALTIC CONCRETE PAVEMENT TYPE B 12 INCHES COMPACTED DEPTH | SY | 574 | | | | | | | | |
| | | | | 684.1 | TRAFFIC SIGNAL CABLES (TYPE A) (16 AWG) (CONDUCTOR NO. 3) | LF | 1,370 | | | | |
| | | | | 686.1 | INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 60') (LUM) (ILSN) | EA | 1 | | | | |
| CoSA | DRAINAGE | | | 687.1 | PEDESTAL POLE ASSEMBLY | EA | 1 | | | | |
| 401.104 | REINFORCED CONCRETE PIPE (CLASS IV) (24" DIA) | LF | 51 | 688.3 | AUDIBLE PEDESTRIAN SIGNAL UNITS [TYPE] | EA | 2 | | | | |
| 413.2 | FLOWABLE FILL (HIGH STRENGTH) | CY | 29 | 693.1 | INTERNALLY LIGHTED STREET NAME SIGNS [ILSN SIGN 8' S] | EA | 1 | | | | |
| 511.3 | REPLACING WITH HOT MIX ASPHALTIC CONCRETE PAVEMENT TYPE B 12 INCHES COMPACTED DEPTH | SY | 40 | 695.2 | EMERGENCY PREEMPTION PHASE SELECTOR | EA | 1 | | | | |
| | | | | 695.3 | EMERGENCY PREEMPTION DETECTOR | EA | 1 | | | | |
| 550.1 | TRENCH EXCAVATION SAFETY PROTECTION | LF | 82 | 695.4 | EMERGENCY PREEMPTION DETECTOR CABLE | LF | 220 | | | | |
| TXDOT | | | | 696.1 | RADAR ADVANCED DETECTION DEVICE (RADD) | EA | 3 | | | | |
| 0465-6175 | INLET (COMPL) (CURB) (TY C) | EA | 1 | 696.2 | RADAR PRESENCE DETECTION DEVICE (RPDD) | EA | 4 | | | | |
| | | | | 696.3 | RADAR ADVANCED DETECTION DEVICE (RADD) COMMUNICATION & POWER CABLE(S) | LF | 445 | | | | |
| | | | | 696.4 | RADAR PRESENCE DETECTION DEVICE (RPDD) COMMUNICATION & POWER CABLE(S) | LF | 510 | | | | |
| CoSA | LANDSCAPING | | | 6007.1 | REMOVAL OF TRAFFIC SIGNALS AT INTERSECTION | EA | 1 | | | | |
| 502.2 | CONCRETE SIDEWALKS 4" | SY | 285 | 8100.1 | INSTALL ITS TRAFFIC MONITORING CAMERA ASSEMBLY | EA | 1 | | | | |
| 502.3 | CONCRETE SIDEWALKS 5" | SY | 11 | 8100.2 | INSTALL ITS TRAFFIC MONITORING CAMERA CABLING | LF | 165 | | | | |
| 502.5 | CONCRETE SIDEWALKS (VIA BUS FOUNDATION) | CY | 6 | | | | | | | | |
| 516.1 | BERMUDA SODDING | SY | 247 | | | | | | | | |
| TXDOT | | | | | | | | | | | |
| 0528-6012 | LANDSCAPE PAVERS TYPE II | SY | 133 | | | | | | | | |
| 0170-6001 | IRRIGATION SYSTEM | LS | 1 | | | | | | | | |

ADDENDUM NO. 01



SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
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TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800



CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

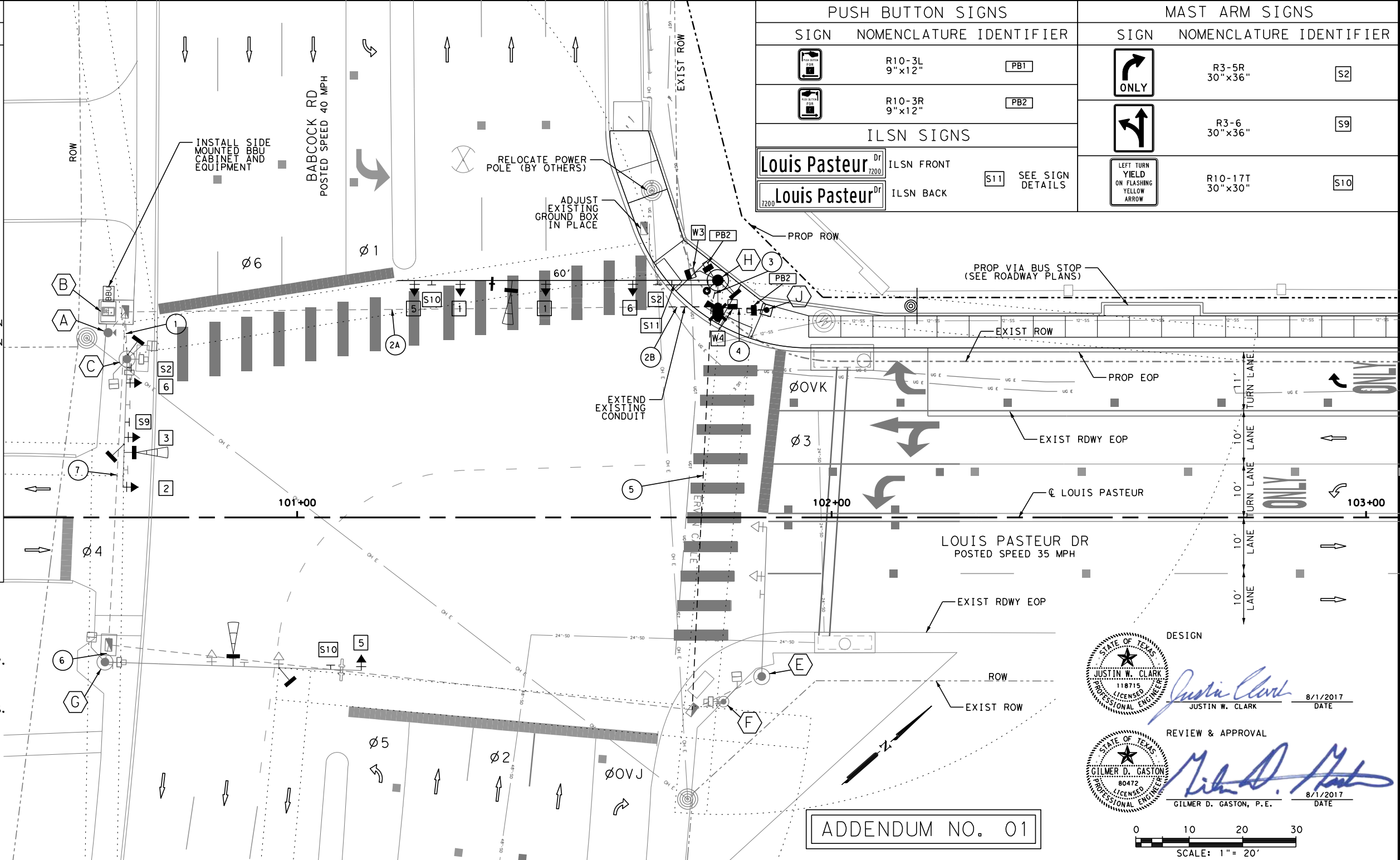
MEDICAL CENTER PHASE X
LOUIS PASTEUR RIGHT TURN LANE
ESTIMATE AND QUANTITY

DESIGN PACKAGE 2 SHEET 1 OF 1

| | | |
|-----------------|----------------------|-----------------|
| 100 % SUBMITTAL | PROJECT NO.: 5241-49 | DATE: 8/16/2017 |
| DRWN, BY: JG | DSGN, BY: JG | CHKD, BY: LR |
| | | SHEET NO.: 4 |

| LEGEND | |
|--------|---|
| SYMBOL | DESCRIPTION |
| | EXISTING RIGHT-OF-WAY |
| | PROPOSED RIGHT-OF-WAY |
| | CONTROLLER, SLAB & FOUNDATION |
| | BATTERY BACKUP CABINET |
| | POLE MOUNTED ELECTRIC SERVICE |
| | EXISTING CONDUIT |
| | PROPOSED CONDUIT |
| | TRAFFIC SIGNAL GROUND BOX |
| | TRAFFIC SIGNAL POLE & FOUNDATION |
| | EXISTING SIGNAL HEAD & BACK PLATE |
| | PROPOSED SIGNAL HEAD & BACK PLATE |
| | EXISTING PREEMPTION DETECTOR |
| | PROPOSED PREEMPTION DETECTOR |
| | MAST ARM MOUNTED SIGN |
| | EXISTING PED POLE ASSEMBLY & FOUNDATION |
| | PROPOSED PED POLE ASSEMBLY & FOUNDATION |
| | EXISTING PEDESTRIAN SIGNAL HEAD |
| | PROPOSED PEDESTRIAN SIGNAL HEAD |
| | EXISTING PEDESTRIAN PUSH BUTTON |
| | PROPOSED PEDESTRIAN PUSH BUTTON |
| | TRAFFIC FLOW ARROW |
| | POLE/EQUIPMENT IDENTIFIER |
| | CABLE/CONDUIT RUN IDENTIFIER |
| | RADAR ADVANCED DETECTION DEVICE (RADD) |
| | RADAR PRESENCE DETECTION DEVICE (RPDD) |
| | RPDD DETECTION ZONE |
| | LUMINAIRE |
| | CCTV CAMERA |

- PLAN NOTES:
1. ALL DIMENSIONS SHOWN ARE IN FEET UNLESS SPECIFIED OTHERWISE. ALL EXISTING FEATURES ARE SHOWN SCREENED BACK I.E. FADED.
 2. ALL TRAFFIC SIGNAL EQUIPMENT DEEMED SALVAGEABLE BY THE COSA INSPECTOR SHALL BE DELIVERED TO THE CITY OF SAN ANTONIO SIGNAL SHOP.
 3. MINIMUM CLEARANCE OF 40" RADIUS FROM NEUTRAL AND 10' RADIUS FROM PRIMARY OR SECONDARY SHALL BE MAINTAINED BETWEEN PROPOSED TRAFFIC SIGNAL EQUIPMENT AND EXISTING OVERHEAD ELECTRICAL LINES.
 4. UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL CALL FOR LOCATES PRIOR TO COMMENCING EXCAVATION. ALL UTILITY LOCATIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
 5. CONTRACTOR TO POTHOLE SIGNAL POLE LOCATIONS NEAR UNDERGROUND UTILITIES PRIOR TO INSTALLING POLE FOUNDATION.
 6. REMOVE ABANDONED CONCRETE FOUNDATIONS TO A POINT 2 FT BELOW FINAL GRADE.
 7. AN ADDITIONAL 2" SCHEDULE 80 PVC SHALL BE INSTALLED AT EACH POLE FOUNDATION STUBBED OUT 1' FROM THE FACE OF THE FOUNDATION. STUB OUTS SHALL BE APPROPRIATELY CAPPED BELOW GRADE FOR FUTURE USE.
 8. NEATLY CAP/COIL ALL WIRES AND CABLES IN GROUND BOX OR AT TERMINATION.
 9. ALL SIGNAL HEADS SHALL HAVE BACK PLATES.
 10. SIDEWALK SHALL BE EXTENDED UP TO THE POLES, AS NEEDED, TO PROVIDE ACCESS TO THE PEDESTRIAN PUSH BUTTONS.
 11. PEDESTRIAN PUSH BUTTONS SHALL BE ACCESSIBLE AND NO MORE THAN 24" FROM LANDING AREA OR SIDEWALK FOR EACH INSTALLED PEDESTRIAN POLE.
 12. PERMANENT DETECTION SHALL BE PROVIDED USING A RADAR DETECTION SYSTEM (RADD & RPDD). THE RADAR ASSEMBLIES SHALL BE MOUNTED ABOVE THE ROADWAY, AS SHOWN ON THE PLANS. RADAR ASSEMBLY HEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS TO OBTAIN OPTIMUM DETECTION.
 13. CONTRACTOR SHALL MAINTAIN VEHICLE DETECTION THROUGHOUT CONSTRUCTION PERIOD.
 14. CONTRACTOR SHALL MAINTAIN SIGNAL COMMUNICATION THROUGHOUT CONSTRUCTION PERIOD.
 15. CONTRACTOR SHALL HIRE OFF-DUTY UNIFORMED POLICE OFFICERS TO DIRECT TRAFFIC WHEN IT BECOMES NECESSARY TO TURN OF THE SIGNAL OR PLACE THE SIGNAL ON FLASHING OPERATION.
 16. SIGNAL OPERATION SHALL BE MONITORED AFTER CONSTRUCTION AND MODIFIED AS NECESSARY.



| PUSH BUTTON SIGNS | | | MAST ARM SIGNS | | |
|--------------------------------|------------------|------------|---------------------|--|--------------------|
| SIGN | NOMENCLATURE | IDENTIFIER | SIGN | NOMENCLATURE | IDENTIFIER |
| | R10-3L 9"x12" | PB1 | | R3-5R 30"x36" | S2 |
| | R10-3R 9"x12" | PB2 | | R3-6 30"x36" | S9 |
| ILSN SIGNS | | | | LEFT TURN YIELD ON FLASHING YELLOW ARROW | R10-17T 30"x30" |
| Louis Pasteur Dr ILSN FRONT | | | SEE SIGN DETAILS | | |
| Louis Pasteur Dr ILSN BACK | | | | | |

ADDENDUM NO. 01

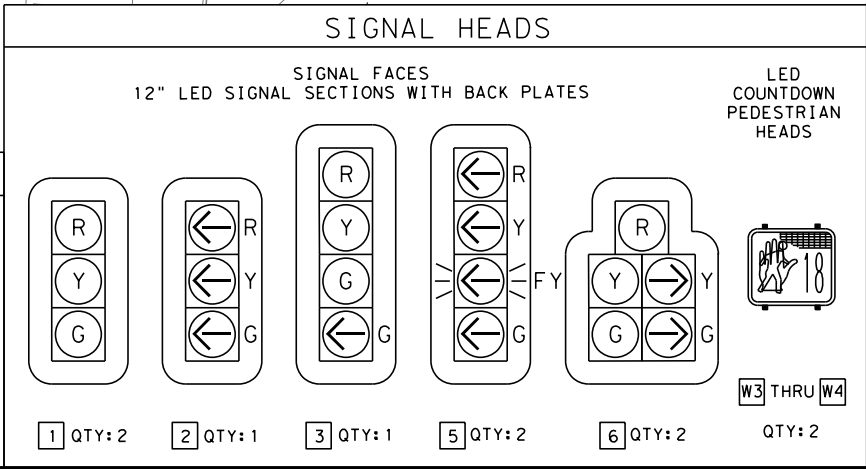
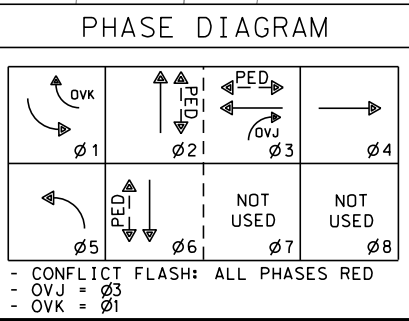
DESIGN

STATE OF TEXAS
JUSTIN W. CLARK
118715
LICENSED PROFESSIONAL ENGINEER
8/1/2017
DATE

REVIEW & APPROVAL

STATE OF TEXAS
GILMER D. GASTON
80478
LICENSED PROFESSIONAL ENGINEER
8/1/2017
DATE

0 10 20 30
SCALE: 1" = 20'



PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
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CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS





**MEDICAL CENTER PHASE X
LOUIS PASTEUR RIGHT TURN LANE**
TRAFFIC SIGNAL PLAN
PROPOSED LAYOUT

DESIGN PACKAGE 2

| | | |
|----------------|----------------------|---------------|
| 100% SUBMITTAL | PROJECT NO.: 5241-49 | DATE: 8/2017 |
| DRWN. BY: | DSGN. BY: | CHKD. BY: LR |
| | | SHEET NO.: 26 |

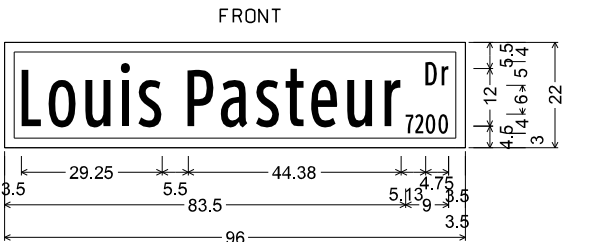
| CONDUIT AND CONDUCTOR SCHEDULE | | | | | | | | | | | | | |
|--------------------------------|---|------|-----|-----|-----|----|----|----|----|----|----|----|----|
| | RUN NUMBER | | ① | ②A | ②B | | ③ | | ④ | ⑤ | ⑥ | ⑦ | |
| | CONDUIT SIZE IN INCHES | | | | 3 | 2 | 3 | 2 | 2 | 3 | | | |
| | NUMBER OF CONDUITS | | | | 2 | 1 | 1 | 1 | 1 | 2 | | | |
| | LENGTH OF RUN (FT) | | 15 | 100 | 100 | 10 | 10 | 10 | 10 | 15 | 80 | 10 | 65 |
| | TRENCH (T)/EXISTING (E) | | E | E | E | T | T | T | T | T | E | E | |
| CABLE | CIRCUIT | | | | | | | | | | | | |
| #8 BARE (SOLID) | BARE BOND GROUND | | | | | | | | | | | | |
| 9 COND. #14 SOLID TYPE "A" | SIGNALS | Ø | 1 | | | | | | | | | 1 | 1 |
| | | Ø | 2 | 1 | | 1 | | 1 | | | | | |
| | | Ø | 3 | 1 | | | | | | | | | |
| | | Ø | 5 | 1 | | 1 | | 1 | | | | | |
| | | Ø | OVJ | 1 | | 1 | | 1 | | | | | |
| 9 COND. #14 SOLID TYPE "A" | PED. SIGNALS | POLE | H | 2 | | 2 | | 2 | | | | | |
| 3 COND. #16 SOLID TYPE "A" | ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTONS | POLE | H | 1 | | 1 | | 1 | | | | | |
| | | POLE | J | 1 | | 1 | | | 1 | | | | |
| M138 OPTICOM CABLE | EMERG PREEMPT | POLE | H | 1 | | 1 | | 1 | | | | | |
| 4 COND. #14 SOLID TYPE "A" | ILSN SIGNS | POLE | H | 1 | | 1 | | 1 | | | | | |
| 3 COND. #12 TRAY CABLE | LUMINAIRE | POLE | H | | 1 | | 1 | | 1 | | | | |
| POWER CABLE | CCTV | POLE | H | 1 | | 1 | | 1 | | | | | |
| DATA CABLE | | | | 1 | | 1 | | 1 | | | | | |
| POWER & DATA CABLE | RADD | POLE | C | 1 | | | | | | | | | |
| | | POLE | G | | | | | | | | 1 | 1 | |
| | | POLE | H | 1 | | 1 | | 1 | | | | | |
| POWER & DATA CABLE | RPDD | POLE | C | 2 | | | | | | | | | |
| | | POLE | G | | | | | | | | | 1 | 1 |
| | | POLE | H | 1 | | 1 | | 1 | | | | | |

AN EXTRA 2 IN CONDUIT SHALL BE STUBBED OUT & CAPPED 2 FT FROM EACH CONCRETE FOUNDATION INCLUDING CONTROLLER & EACH DRILLED SHAFT.

| POLE SCHEDULE | | | | | | | | | | | | | |
|-------------------------------|---|------|-----|---|---|---|---|---|--|--|--|--|--|
| | POLE | | | |  |  |  |  | | | | | |
| | POLE TYPE | | | | SMA-80 | SMA-80 | LMA | PED | | | | | |
| | POLE HEIGHT (FEET) | | | | 19 | 19 | 30 | 4 | | | | | |
| | MAST ARM LENGTH (FEET) | | | | 24 | 48 | 60 | N/A | | | | | |
| | FOUNDATION TYPE | | | | EXIST | EXIST | 48-A | SPL* | | | | | |
| | FOUNDATION DEPTH (FEET) | | | | EXIST | EXIST | 21.9 | 2 | | | | | |
| CABLE | CIRCUIT | | | | NUMBER OF CONDUCTORS | | | | | | | | |
| #8 BARE (SOLID) | BARE BOND GROUND | | | | | | 1 | 1 | | | | | |
| 9 COND. #14 SOLID TYPE "A" | SIGNALS | Ø | 1 | | 1 | | | | | | | | |
| | | Ø | 2 | | | 2 | | | | | | | |
| | | Ø | 3 | 2 | | | | | | | | | |
| | | Ø | 5 | | | 1 | | | | | | | |
| | | Ø | OVJ | | | 1 | | | | | | | |
| | | Ø | OVK | 1 | | | | | | | | | |
| 9 COND. #14 SOLID TYPE "A" | PED. SIGNALS | POLE | H | | | 2 | | | | | | | |
| 3 COND. #16 SOLID TYPE "A" | ACCESSIBLE PEDESTRIAN SIGNAL PUSH BUTTONS | POLE | H | | | 1 | | | | | | | |
| | | POLE | J | | | | 1 | | | | | | |
| M138 OPTICOM CABLE | EMERG PREEMPT | POLE | H | | | 1 | | | | | | | |
| 4 COND. #14 SOLID TYPE "A" | ILSN SIGNS | POLE | H | | | 1 | | | | | | | |
| 3 COND. #12 TRAY CABLE | LUMINAIRE | POLE | H | | | 1 | | | | | | | |
| POWER CABLE | CCTV | POLE | H | | | 1 | | | | | | | |
| DATA CABLE | | | | | | | 1 | | | | | | |
| POWER & DATA CABLE | RADD | POLE | C | 1 | | | | | | | | | |
| | | POLE | G | | 1 | | | | | | | | |
| | | POLE | H | | | 1 | | | | | | | |
| POWER & DATA CABLE | RPDD | POLE | C | 2 | | | | | | | | | |
| | | POLE | G | | 1 | | | | | | | | |
| | | POLE | H | | | 1 | | | | | | | |

* INSTALL PEDESTAL POST ON SPECIAL FOUNDATION (2 FT X 2 FT X 2 FT)

ILSN SIGN DETAILS



ILSN_Front;
2.13" Radius, 2.00" Border, Black on Blue;
[Louis Pasteur] White ClearviewHwy-1-W 75% spacing;
[Dr] White ClearviewHwy-1-W 75% spacing;
[7200] White ClearviewHwy-1-W 75% spacing;



ILSN_Back;
2.13" Radius, 2.00" Border, Black on Blue;
[7200] White ClearviewHwy-1-W;
[Louis Pasteur] White ClearviewHwy-1-W specified length;
[Dr] White ClearviewHwy-1-W 75% spacing;

ADDENDUM NO. 01

| POLE & EQUIPMENT INFORMATION | | | | |
|------------------------------|---|------------------------|-----------|--------------------------|
| ID | DESCRIPTION/ATTACHMENTS | NORTHING | EASTING | FND. ELEV |
| A | EXISTING CPS ELECTRIC SERVICE AND DISCONNECT ON STEEL POST. | EXISTING TO REMAIN | | |
| B | EXISTING CITY OF SAN ANTONIO STANDARD MODEL 332 TRAFFIC SIGNAL CABINET AND CONTROLLER ASSEMBLY ON CONCRETE FOUNDATION. INSTALL EXTERNAL BATTERY BACKUP CABINET AND EQUIPMENT. | EXISTING TO REMAIN | | |
| C | EXISTING 19 FT SMA-80 ON DRILLED SHAFT FOUNDATION WITH ONE STREET NAME SIGN, ONE R3-5L SIGN, TWO PEDESTRIAN PUSH BUTTONS WITH AUDIBLE PEDESTRIAN SIGNAL UNITS, ONE R10-3L SIGN, ONE R10-3R SIGN, AND TWO COUNTDOWN PEDESTRIAN SIGNAL HEADS. REMOVE FLIR CAMERA ASSEMBLY, R3-8cT SIGN, AND TWO VEHICLE SIGNAL HEADS. INSTALL ONE RADD, TWO RPDDs, ONE R3-5R SIGN, ONE R3-6 SIGN, AND THREE VEHICLE SIGNAL HEADS AS ILLUSTRATED. | EXISTING TO REMAIN | | |
| D | REMOVE AND SALVAGE EXISTING 19 FT SMA-80 AND RELATED TRAFFIC SIGNAL EQUIPMENT. | EXISTING TO BE REMOVED | | |
| E | EXISTING 19 FT SMA-80 ON DRILLED SHAFT FOUNDATION WITH ONE STREET NAME SIGN, AND TWO VEHICLE HEADS AS ILLUSTRATED. | EXISTING TO REMAIN | | |
| F | EXISTING 10 FT PEDESTAL POLE ON DRILLED SHAFT FOUNDATION WITH ONE R9-3 SIGN, ONE COUNTDOWN PEDESTRIAN SIGNAL HEAD, ONE PEDESTRIAN PUSH BUTTON WITH AUDIBLE PEDESTRIAN SIGNAL UNIT AND ONE R10-3L SIGN. | EXISTING TO REMAIN | | |
| G | EXISTING 19 FT SMA-80 ON DRILLED SHAFT FOUNDATION WITH TWO PREEMPTION DETECTORS, ONE STREET NAME SIGN, ONE R9-3 SIGN, ONE PEDESTRIAN PUSH BUTTON WITH AUDIBLE PEDESTRIAN SIGNAL UNIT, ONE R10-3R SIGN, ONE COUNTDOWN PEDESTRIAN SIGNAL HEAD, AND TWO VEHICLE SIGNAL HEADS. REMOVE VIVDS CAMERA ASSEMBLY, WIRELESS ACCESS POINT, AND LEFT-TURN VEHICLE SIGNAL HEAD. INSTALL ONE RADD, ONE RPDD, ONE R10-17T SIGN AND 4-SECTION VEHICLE SIGNAL HEAD AS ILLUSTRATED. | EXISTING TO REMAIN | | |
| H | INSTALL 30 FT LMA ON 21.9 FT DRILLED SHAFT FOUNDATION (48-A) WITH 60' MAST ARM, ONE LUMINAIRE, ONE RADD, ONE RPDD, ONE CCTV CAMERA ASSEMBLY, TWO LED COUNTDOWN PEDESTRIAN SIGNAL HEADS, ONE PEDESTRIAN PUSH BUTTON WITH AUDIBLE PEDESTRIAN SIGNAL UNIT, ONE R10-3R SIGN, ONE R3-5R SIGN, ONE ILSN MAST ARM WITH SIGN, ONE R10-17T SIGN, AND FOUR VEHICLE SIGNAL HEADS AS ILLUSTRATED. | 13732001.5 | 2103053.3 | LEVEL WITH ROADWAY CROWN |
| J | INSTALL 4 FT PUSH BUTTON PEDESTAL POLE ON SPECIAL FOUNDATION (2 FT X 2 FT X 2 FT) WITH ONE PEDESTRIAN PUSH BUTTON WITH AUDIBLE PEDESTRIAN SIGNAL UNIT AND ONE R10-3R SIGN AS ILLUSTRATED. | 13732004.7 | 2103063.5 | FLUSH WITH LANDING |

SEE POLE SCHEDULE FOR POLE TYPE, HEIGHT, MAST ARM LENGTH, FOUNDATION TYPE, AND FOUNDATION DEPTH. SIGNS SHALL BE ATTACHED TO POLES AND MAST ARMS AS INDICATED ON LAYOUT.
REMOVE ABANDONED CONCRETE FOUNDATION TO A POINT 2 FT BELOW FINAL GRADE.
ALL TRAFFIC SIGNAL EQUIPMENT DEEMED SALVAGEABLE BY THE CITY OF SAN ANTONIO INSPECTOR SHALL BE DELIVERED TO THE COSA SIGNAL SHOP.

DESIGN

STATE OF TEXAS
JUSTIN W. CLARK
118715
LICENSED PROFESSIONAL ENGINEER

8/1/2017
DATE

REVIEW & APPROVAL

STATE OF TEXAS
GILMER D. GASTON
80472
LICENSED PROFESSIONAL ENGINEER

8/1/2017
DATE

PAPE-DAWSON ENGINEERS

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800


CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

**MEDICAL CENTER PHASE X
LOUIS PASTEUR RIGHT TURN LANE**
TRAFFIC SIGNAL PLAN
CONDUIT & CONDUCTOR SCHEDULE
DESIGN PACKAGE 2

| | | |
|-----------------|----------------------|--------------|
| 100 % SUBMITTAL | PROJECT NO.: 5241-49 | DATE: 8/2017 |
| DRWN. BY: | DSGN. BY: | CHKD. BY: LR |
| SHEET NO.: 27 | | |


| ITEM | DESCRIPTION | UNIT | QTY |
|--------|---|------|------|
| 307.1 | CONCRETE STRUCTURE (FOUNDATION) | CY | 0.3 |
| 308.1 | DRILLED SHAFTS (48") | LF | 22 |
| 618.1 | CONDUIT (2 INCH/PVC SCHEDULE 40)(TRENCH) | LF | 40 |
| 618.2 | CONDUIT (3 INCH/PVC SCHEDULE 40)(TRENCH) | LF | 210 |
| 620.2 | ELECTRICAL CONDUCTORS (NO. 8)(BARE) | LF | 510 |
| 624.8 | GROUND BOXES TYPE D (162922) | EA | 1 |
| 633.1 | BATTERY BACKUP SYSTEM | EA | 1 |
| 680.2 | INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (SYSTEM) | EA | 1 |
| 682.1 | INSTALL VEHICLE SIGNAL SECTION WITH BACK PLATE (3 SECTION) | EA | 3 |
| 682.2 | INSTALL VEHICLE SIGNAL SECTION WITH BACK PLATE (4 SECTION) | EA | 3 |
| 682.3 | INSTALL VEHICLE SIGNAL SECTION WITH BACK PLATE (5 SECTION) | EA | 2 |
| 682.4 | INSTALL PEDESTRIAN SIGNAL SECTION (12 INCH) LED (2 IND) | EA | 2 |
| 683.1 | LED COUNTDOWN PEDESTRIAN MODULE | EA | 2 |
| 684.1 | TRAFFIC SIGNAL CABLES (TYPE A)(12 AWG)(CONDUCTOR NO. 3) (TRAY CABLE) | LF | 175 |
| 684.1 | TRAFFIC SIGNAL CABLES (TYPE A)(14 AWG)(CONDUCTOR NO. 4) | LF | 170 |
| 684.1 | TRAFFIC SIGNAL CABLES (TYPE A)(14 AWG)(CONDUCTOR NO. 9) | LF | 1370 |
| 684.1 | TRAFFIC SIGNAL CABLES (TYPE A)(16 AWG)(CONDUCTOR NO. 3) | LF | 285 |
| 686.1 | INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL)(1 ARM 60')(LUM)(ILSN) | EA | 1 |
| 687.1 | PEDESTAL POLE ASSEMBLY | EA | 1 |
| 688.3 | AUDIBLE PEDESTRIAN SIGNAL UNITS [TYPE] | EA | 2 |
| 693.1 | INTERNALLY LIGHTED STREET NAME SIGNS [ILSN SIGN 8' S] | EA | 1 |
| 695.2 | EMERGENCY PREEMPTION PHASE SELECTOR | EA | 1 |
| 695.3 | EMERGENCY PREEMPTION DETECTOR | EA | 1 |
| 695.4 | EMERGENCY PREEMPTION DETECTOR CABLE | LF | 220 |
| 696.1 | RADAR ADVANCED DETECTION DEVICE (RADD) | EA | 3 |
| 696.2 | RADAR PRESENCE DETECTION DEVICE (RPDD) | EA | 4 |
| 696.3 | RADAR ADVANCED DETECTION DEVICE (RADD) COMMUNICATION & POWER CABLE(S) | LF | 445 |
| 696.4 | RADAR PRESENCE DETECTION DEVICE (RPDD) COMMUNICATION & POWER CABLE(S) | LF | 510 |
| 6007.1 | REMOVAL OF TRAFFIC SIGNALS AT INTERSECTION | EA | 1 |
| 8100.1 | Install ITS Traffic Monitoring Camera Assembly | EA | 1 |
| 8100.2 | Install ITS Traffic Monitoring Camera Cabling | LF | 165 |

ADDENDUM NO. 01



**PAPE-DAWSON
ENGINEERS**

SAN ANTONIO | AUSTIN | HOUSTON | FORT WORTH | DALLAS
2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000
TBPE FIRM REGISTRATION #470 | TBPLS FIRM REGISTRATION #10028800



CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

**MEDICAL CENTER PHASE X
LOUIS PASTEUR RIGHT TURN LANE
TRAFFIC SIGNAL PLAN
SUMMARY**

DESIGN PACKAGE 2

| | | |
|-----------------|----------------------|----------------------------|
| 100 % SUBMITTAL | PROJECT NO.: 5241-49 | DATE: 8/2017 |
| DRWN. BY: | DSGN. BY: | CHKD. BY: LR SHEET NO.: 29 |

GENERAL SECTION NOTES

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:

- A. CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER", TAC TITLE 30 PART 1 CHAPTER 290.
- B. CURRENT TxDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE."
- C. CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION."
- D. CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION."
- E. CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM).

2. THE CONTRACTOR SHALL OBTAIN SAWS STANDARD DETAILS FROM SAWS WEBSITE, [HTTP://WWW.SAWS.ORG/BUSINESS_CENTER/SPECS](http://www.saws.org/BUSINESS_CENTER/SPECS). UNLESS OTHERWISE NOTED WITHIN DESIGN PLANS.

3. THE CONTRACTOR IS TO NOTIFY AND MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT 233-3500, AND PROVIDE NOTIFICATION PROCEDURES THE CONTRACTOR WILL USE TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO EXCAVATION.

4. LOCATIONS AND DEPTHS OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO SAWS.

5. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR LOCATES REQUESTING PIPE LOCATION MARKERS ON SAWS FACILITIES. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES:

SAN ANTONIO WATER SYSTEM:
SAWS UTILITY LOCATES:
[HTTP://WWW.SAWS.ORG/SERVICE/LOCATES](http://www.saws.org/SERVICE/LOCATES)

COSA DRAINAGE 207-8048
COSA TRAFFIC SIGNAL OPERATIONS 207-7720
TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION AS A RESULT OF DAMAGES DONE BY THE PROJECT'S CONSTRUCTION.

7. ALL WORK IN TEXAS HIGHWAY DEPARTMENT AND BEXAR COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT.

8. THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.

9. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.

10. ANY WORK COMPLETED WITHOUT PRIOR WRITTEN AUTHORIZATION WHICH IS NOT INCLUDED IN THESE PLANS AND SPECIFICATIONS WILL NOT BE COMPENSATED BY THE SAN ANTONIO WATER SYSTEM.

11. HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON SAWS RECOGNIZED HOLIDAYS. REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.

WEEKEND WORK: CONTRACTORS ARE REQUIRED TO NOTIFY THE SAWS INSPECTION CONSTRUCTION DEPARTMENT 48 HOURS IN ADVANCE TO REQUEST WEEKEND WORK. REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.

ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.

12. PRE CON SITE VIDEO: BEFORE THE START OF ANY CONSTRUCTION. THE SITE MUST BE VIDEO RECORDED BY THE CONTRACTOR WITH ONE COPY SUBMITTED TO SAWS INSPECTIONS. A PRE-SITE VIDEO WILL PROVIDE ACCURATE DOCUMENTATION OF THE EXISTING CONDITIONS. (NSPI)

13. POWER POLE BRACING: CONTRACTORS SHOULD BE ADVISED THAT THERE ARE EXISTING OVERHEAD UTILITY POLES ALONG THE PROJECT CORRIDOR. CONTRACTORS SHOULD FURTHER BE ADVISED THAT IF THE DISTANCE FROM THE OUTSIDE FACE OF A UTILITY TRENCH TO THE FACE OF A UTILITY POLE IS LESS THAN 5 FEET, SAID UTILITY POLE IS SUBJECT TO BRACING, BASED ON A DETERMINATION MADE BY UTILITY POLE OWNER. COSTS INCURRED BY CONTRACTOR FOR BRACING OF THESE UTILITY POLES IS SUBSIDIARY TO THAT RESPECTIVE UTILITY COMPANY'S WORK. IT IS ADVISABLE FOR THE CONTRACTOR TO REVIEW THE CONSTRUCTION DOCUMENTS, AND VISIT THE CONSTRUCTION SITE TO DETERMINE POTENTIAL IMPACTS.

WATER SECTION

14. PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS INSPECTION AND/OR SAWS PRODUCTION GROUPS AT LEAST ONE WEEK OR MORE IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.
SAWS PRODUCTION CONTROL CENTER 233-2016

15. ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE PIPE WHICH IS KNOWN TO CONTAIN ASBESTOS-CONTAINING MATERIAL (ACM), MAYBE LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THIS PIPE OCCURS. PAYMENT FOR SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000, "SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE".

16. VALVE REMOVAL: WHERE THE CONTRACTOR IS TO ABANDON A WATER MAIN, THE CONTROL VALVE LOCATED ON THE ABANDONING BRANCH WILL BE REMOVED AND REPLACED WITH A CAP/PLUG. (NSPI)

SEWER SECTION

17. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO SANITARY SEWER OVERFLOW (SSO) OCCURS AS A RESULT OF THEIR WORK. ALL CONTRACTOR PERSONNEL RESPONSIBLE FOR SSO PREVENTION AND CONTROL SHALL BE TRAINED ON PROPER RESPONSE. SHOULD AN SSO OCCUR, THE CONTRACTOR SHALL:

- A. IDENTIFY THE SOURCE OF THE SSO AND NOTIFY SAWS EMERGENCY OPERATIONS CENTER (EOC) IMMEDIATELY AT (210)233-2015. PROVIDE THE ADDRESS OF THE SPILL AND AN ESTIMATED VOLUME OR FLOW.
- B. ATTEMPT TO ELIMINATE THE SOURCE OF THE SSO.
- C. CONTAIN SEWAGE FROM THE SSO TO THE EXTENT OF PREVENTING A POSSIBLE CONTAMINATION OF WATERWAYS.
- D. CLEAN UP SPILL SITE (RETURN CONTAINED SEWAGE TO THE COLLECTION SYSTEM IF POSSIBLE) AND PROPERLY DISPOSE OF CONTAMINATED SOIL/MATERIALS.
- E. CLEAN THE AFFECTED SEWER MAINS AND REMOVE ANY DEBRIS.
- F. MEET ALL POST-SSO REQUIREMENTS AS PER THE EPA CONSENT DECREE, INCLUDING LINE CLEANING AND TELEVISION THE AFFECTED SEWER MAINS (AT SAWS DIRECTION) WITHIN 24 HOURS.

SHOULD THE CONTRACTOR FAIL TO ADDRESS AN SSO IMMEDIATELY AND TO SAWS SATISFACTION, THEY WILL BE RESPONSIBLE FOR ALL COSTS INCURRED BY SAWS, INCLUDING ANY FINES FROM EPA.

NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR THIS WORK. ALL WORK SHALL BE DONE ACCORDING TO GUIDELINES SET BY THE TCEQ AND SAWS.

18. THE CONTRACTOR SHALL PROVIDE BYPASS PUMPING OF SEWAGE AROUND EACH SEGMENT OF PIPE TO BE REPLACED, IN ACCORDANCE WITH SAWS STANDARD SPECIFICATION FOR WATER AND SANITARY SEWER CONSTRUCTION, ITEM NO. 864, "BYPASS PUMPING". PAYMENT FOR SUCH WORK WILL BE MADE UNDER THE BID ITEM "SANITARY SEWER (BYPASS PUMPING)" (LUMP SUM) AS PER SAWS STANDARD SPECIFICATION FOR WATER AND SANITARY SEWER CONSTRUCTION, ITEM NO. 864, "BYPASS PUMPING".

19. PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING FORCE MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT 233-3500 AND/OR SAWS PRODUCTION GROUPS AT LEAST ONE WEEK OR MORE IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.

20. ELEVATIONS POSTED FOR TOP OF MANHOLES ARE FOR REFERENCE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ALLOWANCES AND ADJUSTMENTS FOR TOP OF MANHOLES TO MATCH THE FINISHED GRADE OF THE PROJECT'S IMPROVEMENTS. (NSPI).

21. THE CONTRACTOR SHALL NOTIFY JUAN C. RAMIREZ AT (210) 233-3558 AND SAWS E.O.C. AT (210) 233-2015 A MINIMUM OF 72 HOURS, NOT COUNTING WEEKENDS OR SAWS HOLIDAYS, BEFORE WORKING ON THE PIPE OR MANHOLE, IN ORDER TO HAVE SAWS REMOVE THE SMART COVER. ANY DAMAGE DONE TO THE SMART COVER WILL BE CHARGED TO THE CONTRACTOR THROUGH A CHANGE ORDER.

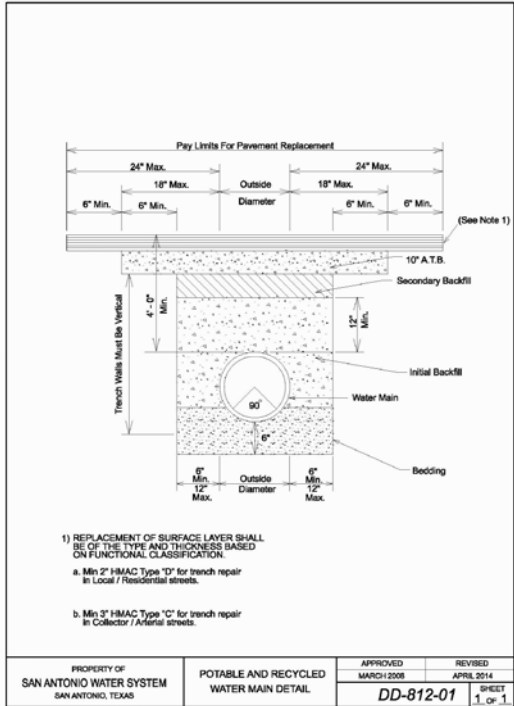
GENERAL UTILITY NOTES

LOCATOR NOTE:
CALL THE STATE WIDE "ONE CALL LOCATOR" AT 1-800-344-8377, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.

CABLE T.V. NOTE:
CONTRACTOR TO CONTACT THE TIME WARNER CABLE LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 352-4672. CONTRACTOR HAS RESPONSIBILITY TO PROTECT AND SUPPORT CABLE T.V. PLANT DURING CONSTRUCTION.

TELEPHONE NOTE:
THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR TO CONTACT THE TELEPHONE COMPANY CABLE LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 1-800-828-5127. CONTRACTOR HAS THE RESPONSIBILITY TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION.

CPS ENERGY NOTES:
DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, C.P.S. ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT.



CITY OF SAN ANTONIO FLATWORK NOTE

1. ALL LIMITS FOR CURB, SIDEWALK, AND TREE PREP BEYOND WHAT IS CONSIDERED INCIDENTAL TO NORMAL UTILITY CONSTRUCTION WILL BE ADDRESSED BY THE SAWS INSPECTOR. ALL COMMUNICATION FROM THE CITY WILL BE COORDINATED THROUGH THE SAWS INSPECTOR. SAWS INSPECTOR WILL ALSO DETERMINE IF ADDITIONAL COMPENSATION IS WARRANTED IF LIMITS EXCEED INCIDENTALS.

CPS ENERGY CLEARANCE NOTE

1. CONTRACTOR SHALL MAINTAIN ADEQUATE WORKING CLEARANCE FROM OVERHEAD UTILITIES IN COMPLIANCE WITH C.P.S. REQUIREMENTS.

1

| SUMMARY OF WATER QUANTITIES | | | |
|-----------------------------|---|-------|-------|
| Item # | Description | Units | Total |
| 100 | MOBILIZATION | LS | 1 |
| 101 | PREPARATION OF RIGHT-OF-WAY | LS | 1 |
| 103 | REMOVE CONCRETE CURB | LF | 10 |
| 103 | REMOVE SIDEWALKS & DRIVEWAYS | SF | 196 |
| 500 | CONCRETE CURB, GUTTER, AND CONCRETE CURB AND GUTTER | LF | 10 |
| 502 | CONCRETE SIDEWALK | SY | 23 |
| 550 | TRENCH EXCAV. SAFETY PROTECTION | LF | 290 |
| 818 | 8" PVC WATERLINE (RESTRAINED) (0'-6' CUT) | LF | 110 |
| 818 | 12" PVC WATERLINE (RESTRAINED) (0'-6' CUT) | LF | 90 |
| 818 | 12" PVC WATERLINE (RESTRAINED) (6'-14' CUT) | LF | 90 |
| 824 | RELAY 1-1/2", SHORT | EA | 2 |
| 826 | VALVE BOX ADJUSTMENT | EA | 2 |
| 828 | 12" GATE VALVE, COMPLETE w/BOX | EA | 3 |
| 831 | 12"x12" CUT-IN-TEE | EA | 2 |
| 834 | FIRE HYDRANT, COMPLETE | EA | 1 |
| 834.3 | RELOCATE FIRE HYDRANT | EA | 1 |
| 836 | PIPE FITTINGS, ALL SIZES AND TYPES | TON | 4 |
| 840 | 8" WATER TIE-IN | EA | 7 |
| 840 | 12" WATER TIE-IN | EA | 8 |
| 841 | HYDROSTATIC TESTING | EA | 7 |
| 844 | 2" BLOW-OFF, TEMPORARY | EA | 15 |
| 858 | CONCRETE ENCASEMENT, CRADLES, SADDLES AND COLLARS | CY | 15 |
| SPECIAL SPECS. (ELECTRICAL) | REMOVE AND RELOCATE EXISTING PRESSURE POINT MONITORING PANEL. EXTEND ALL NEW COMPONENTS, UNDERGROUND CONDUITS, AND ELECTRICAL WIRING FROM THE PRESSURE MONITORING POINT PANEL, AND EXISTING METER BOX TO NEW POWER POLE. RELOCATE EXISTING YAGI ANTENNA AND SERVICE METER. AS SHOWN ON THE DRAWINGS AND SPECIFIED IN THE CONTRACT DOCUMENTS COMPLETE-IN-PLACE FOR THE LUMP SUM. | LS | 1 |

PLAN (LETTER) DESIGNATION

Q
12

ENLARGED PLAN

SHEET WHERE PLAN IS SHOWN

PLAN CALLOUT

PLAN (LETTER) DESIGNATION

Q
4

ENLARGED PLAN

SCALE: 1"=20'

SHEET WHERE PLAN IS CUT

PLAN TITLE CALLOUT



S&GE, L.L.C.

TBPE Firm No. F-8038

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| 1 | ADDENDUM NO. 1 | | JG | 8/11/17 |
| No. | Revision | Drawn | Approved | Date |

REVISIONS



MEDICAL CENTER
LOUIS PASTEUR AT EWING HALSELL
WATER IMPROVEMENTS
GENERAL NOTES AND
QUANTITIES

DEVELOPER:

CONT.

BUDGET PROJ.

SUBMITTED

APPROVED

MAP No.

SECT. No.

DR.

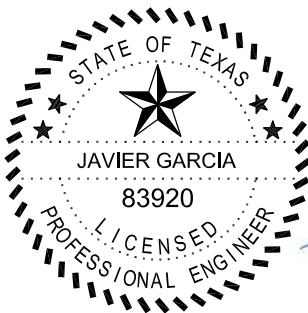
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JOB No. 16-5029

SHEET

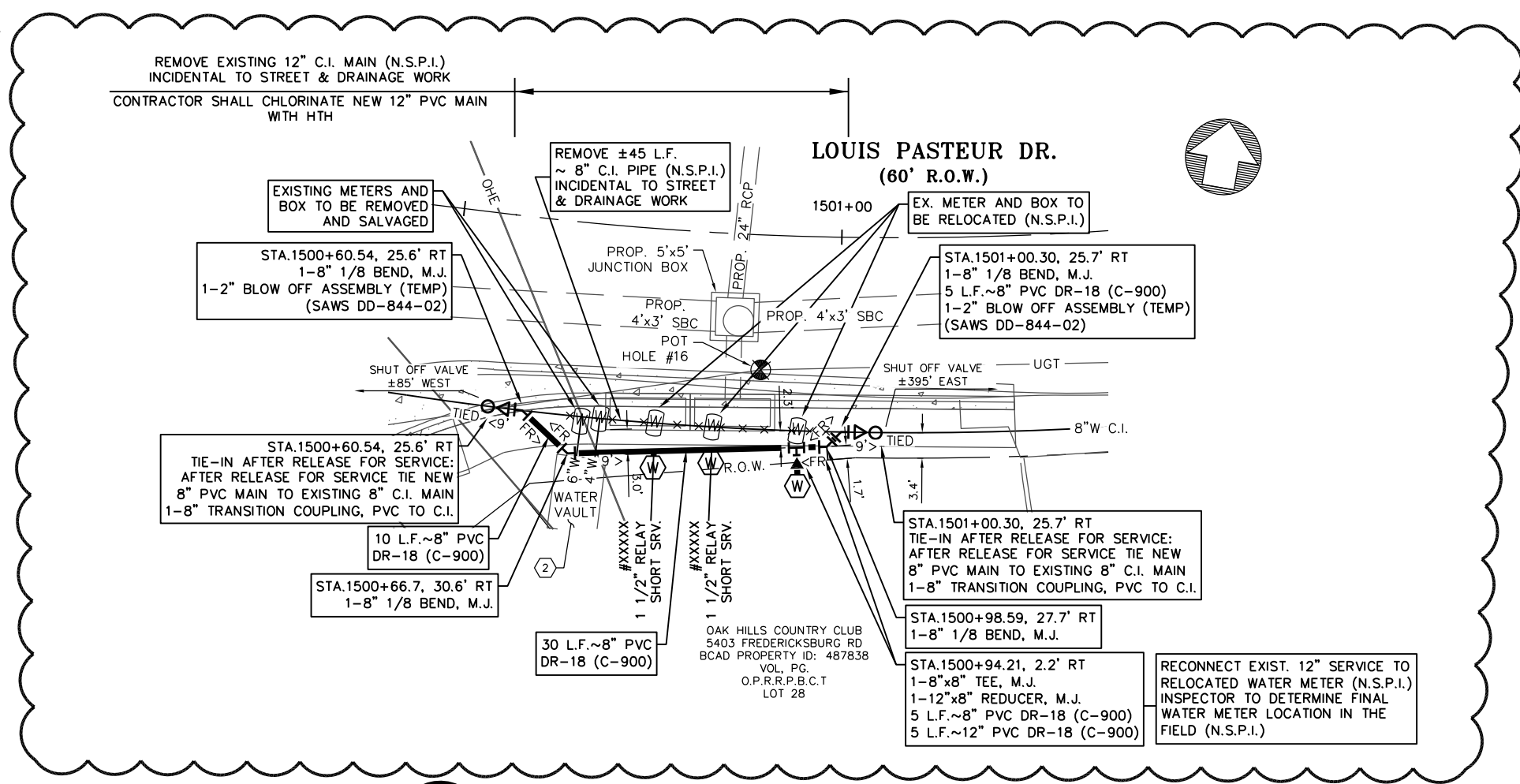
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Of 15



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7/20/17

1



KEY NOTES

- 1 EXISTING 12" WATER CROSSING OVER EXISTING 12" SANITARY SEWER MAIN.
- 2 EXISTING 4" AND 6" WATER LINES TO BE CAPPED AT VAULT. VAULT ON PRIVATE PROPERTY AND NOT OWNED BY SAWS TO BE ABANDONED AND REMOVED BY OTHERS.

| LEGEND | |
|--|-------------|
| PROP. WATER MAIN | —O— |
| EXIST. WATER MAIN | —6" C.I.W.— |
| GAS MAIN | —2" G— |
| SANITARY SEWER | —8" SA— |
| STORM SEWER | —24" ST— |
| UTILITY POLE LINE | —O— |
| ELECTRIC CABLE | —E— |
| TELEPHONE CABLE | —T— |
| DUAL BRANCH SERV. | — |
| NEW UNMETERED SERVICE: | |
| 3/4" SINGLE | — |
| 1" DUAL | — |
| SERVICE RECONNECT: | |
| 3/4" | — |
| 1" OR LARGER | — |
| SERVICE RELAY: | |
| 3/4" | — |
| 1" OR LARGER | — |
| SERVICE RELOCATE: | |
| 3/4" | — |
| 1" OR LARGER | — |
| RELOCATE METER | — |
| NEW SERVICE: | |
| 3/4" | — |
| 1" OR LARGER | — |
| UNDER GROUND TELE. | —UGT— |
| UNDER GROUND ELEC. | —UGE— |
| OVERHEAD ELEC. | —OHE— |
| EXIST FENCE | —O—O— |
| PIPE CASING | — |
| WATER METER | —W— |
| WATER VALVE | — |
| TELE PEDESTAL | — |
| LIGHT POLE | — |
| POWER POLE/GUY WIRE | — |
| SIGN | — |
| EXIST CLEAN OUT | — |
| EXISTING GAS, ELEC. & TELECOM CROSSING | — |

N ENLARGED PLAN AND SECTION DETAIL

4

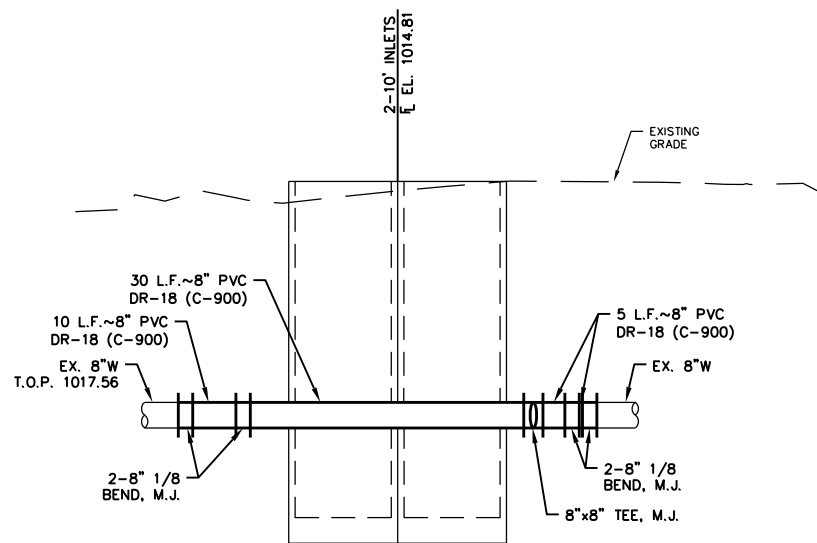
SCALE: 1"=20'(H), 1"=5'(V)

| ITEM # | DESCRIPTION | UNITS | QUANTITY |
|--------|--|-------|----------|
| 550 | TRENCH EXCAV. SAFETY PROTECTION | LF | 55 |
| 818 | 8" PVC WATERLINE (RESTRAINED) (0'-6" CUT) | LF | 50 |
| 818 | 12" PVC WATERLINE (RESTRAINED) (0'-6" CUT) | LF | 5 |
| 824 | RELAY 1-1/2", SHORT | EA | 2 |
| 836 | PIPE FITTINGS, ALL SIZES AND TYPES | TON | 0.3 |
| 840 | 8" WATER TIE-IN | EA | 2 |
| 841 | HYDROSTATIC TESTING | EA | 1 |
| 844 | 2" BLOW-OFF, TEMPORARY | EA | 2 |

| UTILITY POT HOLE TABLE | | | | |
|------------------------|-------------|------------------|-----------------------|-----------|
| POT HOLE # | DESCRIPTION | GROUND ELEVATION | DISTANCE BELOW GROUND | ELEVATION |
| 16 | TELECOM | 1022.7509 | 3.50' | 1019.25 |

- NOTES:
1. PIPE RESTRAINT
- 1.1. #> = RESTRAINED LENGTH (FT)/DIRECTION FROM FITTING
- 1.2. FR = FULLY RESTRAINED BETWEEN FITTINGS

TRENCH EXCAVATION SAFETY PROTECTION: CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURE/DESIGN/GEOTECHNICAL/SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



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| 1 | ADDENDUM NO. 1 | | JG | 8/11/17 |
| No. | Revision | Drawn | Approved | Date |

| REVISIONS | |
|-----------|----------------|
| 1 | ADDENDUM NO. 1 |
| No. | Revision |

DEVELOPER: MEDICAL CENTER LOUIS PASTEUR AT EWING HALSELL WATER IMPROVEMENTS N ENLARGED PLAN & SECTION DETAILS

| | |
|-----------------|--------------|
| CONT. | BUDGET PROJ. |
| SUBMITTED | |
| APPROVED | |
| MAP No. | SHEET 12 |
| SECT. No. | Of 15 |
| DR. | CK. |
| JOB No. 16-5029 | |

GENERAL SECTION NOTES

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:

- A. CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER", TAC TITLE 30 PART 1 CHAPTER 290.
- B. CURRENT TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE."
- C. CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION."
- D. CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION."
- E. CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM).

2. THE CONTRACTOR SHALL OBTAIN SAWS STANDARD DETAILS FROM SAWS WEBSITE, [HTTP://WWW.SAWS.ORG/BUSINESS_CENTER/SPECS](http://www.saws.org/business_center/specs). UNLESS OTHERWISE NOTED WITHIN DESIGN PLANS.

3. THE CONTRACTOR IS TO NOTIFY AND MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT 233-3500, AND PROVIDE NOTIFICATION PROCEDURES THE CONTRACTOR WILL USE TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO EXCAVATION.

4. LOCATIONS AND DEPTHS OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO SAWS.

5. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR LOCATES REQUESTING PIPE LOCATION MARKERS ON SAWS FACILITIES. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES:

SAN ANTONIO WATER SYSTEM:
SAWS UTILITY LOCATES:
[HTTP://WWW.SAWS.ORG/SERVICE/LOCATES](http://www.saws.org/service/locates)

COSA DRAINAGE 207-8048
COSA TRAFFIC SIGNAL OPERATIONS 207-7720
TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION AS A RESULT OF DAMAGES DONE BY THE PROJECT'S CONSTRUCTION.

7. ALL WORK IN TEXAS HIGHWAY DEPARTMENT AND BEXAR COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT.

8. THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.

9. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.

10. ANY WORK COMPLETED WITHOUT PRIOR WRITTEN AUTHORIZATION WHICH IS NOT INCLUDED IN THESE PLANS AND SPECIFICATIONS WILL NOT BE COMPENSATED BY THE SAN ANTONIO WATER SYSTEM.

11. HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON SAWS RECOGNIZED HOLIDAYS. REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.

WEEKEND WORK: CONTRACTORS ARE REQUIRED TO NOTIFY THE SAWS INSPECTION CONSTRUCTION DEPARTMENT 48 HOURS IN ADVANCE TO REQUEST WEEKEND WORK. REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.

ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.

12. PRE CON SITE VIDEO: BEFORE THE START OF ANY CONSTRUCTION. THE SITE MUST BE VIDEO RECORDED BY THE CONTRACTOR WITH ONE COPY SUBMITTED TO SAWS INSPECTIONS. A PRE-SITE VIDEO WILL PROVIDE ACCURATE DOCUMENTATION OF THE EXISTING CONDITIONS. (NSPI)

13. POWER POLE BRACING: CONTRACTORS SHOULD BE ADVISED THAT THERE ARE EXISTING OVERHEAD UTILITY POLES ALONG THE PROJECT CORRIDOR. CONTRACTORS SHOULD FURTHER BE ADVISED THAT IF THE DISTANCE FROM THE OUTSIDE FACE OF A UTILITY TRENCH TO THE FACE OF A UTILITY POLE IS LESS THAN 5 FEET, SAID UTILITY POLE IS SUBJECT TO BRACING. BASED ON A DETERMINATION MADE BY UTILITY POLE OWNER. COSTS INCURRED BY CONTRACTOR FOR BRACING OF THESE UTILITY POLES IS SUBSIDIARY TO THAT RESPECTIVE UTILITY COMPANY'S WORK. IT IS ADVISABLE FOR THE CONTRACTOR TO REVIEW THE CONSTRUCTION DOCUMENTS, AND VISIT THE CONSTRUCTION SITE TO DETERMINE POTENTIAL IMPACTS.

WATER SECTION

14. PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS INSPECTION AND/OR SAWS PRODUCTION GROUPS AT LEAST ONE WEEK OR MORE IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.
SAWS PRODUCTION CONTROL CENTER 233-2016

15. ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE PIPE WHICH IS KNOWN TO CONTAIN ASBESTOS-CONTAINING MATERIAL (ACM), MAYBE LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THIS PIPE OCCURS. PAYMENT FOR SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000, "SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE".

16. VALVE REMOVAL: WHERE THE CONTRACTOR IS TO ABANDON A WATER MAIN, THE CONTROL VALVE LOCATED ON THE ABANDONING BRANCH WILL BE REMOVED AND REPLACED WITH A CAP/PLUG. (NSPI)

SEWER SECTION

17. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO SANITARY SEWER OVERFLOW (SSO) OCCURS AS A RESULT OF THEIR WORK. ALL CONTRACTOR PERSONNEL RESPONSIBLE FOR SSO PREVENTION AND CONTROL SHALL BE TRAINED ON PROPER RESPONSE. SHOULD AN SSO OCCUR, THE CONTRACTOR SHALL:

- A. IDENTIFY THE SOURCE OF THE SSO AND NOTIFY SAWS EMERGENCY OPERATIONS CENTER (EOC) IMMEDIATELY AT (210)233-2015. PROVIDE THE ADDRESS OF THE SPILL AND AN ESTIMATED VOLUME OR FLOW.
- B. ATTEMPT TO ELIMINATE THE SOURCE OF THE SSO.
- C. CONTAIN SEWAGE FROM THE SSO TO THE EXTENT OF PREVENTING A POSSIBLE CONTAMINATION OF WATERWAYS.
- D. CLEAN UP SPILL SITE (RETURN CONTAINED SEWAGE TO THE COLLECTION SYSTEM IF POSSIBLE) AND PROPERLY DISPOSE OF CONTAMINATED SOIL/MATERIALS.
- E. CLEAN THE AFFECTED SEWER MAINS AND REMOVE ANY DEBRIS.
- F. MEET ALL POST-SSO REQUIREMENTS AS PER THE EPA CONSENT DECREE, INCLUDING LINE CLEANING AND TELEVISION THE AFFECTED SEWER MAINS (AT SAWS DIRECTION) WITHIN 24 HOURS.

SHOULD THE CONTRACTOR FAIL TO ADDRESS AN SSO IMMEDIATELY AND TO SAWS SATISFACTION, THEY WILL BE RESPONSIBLE FOR ALL COSTS INCURRED BY SAWS, INCLUDING ANY FINES FROM EPA.

NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR THIS WORK. ALL WORK SHALL BE DONE ACCORDING TO GUIDELINES SET BY THE TCEQ AND SAWS.

18. THE CONTRACTOR SHALL PROVIDE BYPASS PUMPING OF SEWAGE AROUND EACH SEGMENT OF PIPE TO BE REPLACED, IN ACCORDANCE WITH SAWS STANDARD SPECIFICATION FOR WATER AND SANITARY SEWER CONSTRUCTION, ITEM NO. 864, "BYPASS PUMPING". PAYMENT FOR SUCH WORK WILL BE MADE UNDER THE BID ITEM "SANITARY SEWER (BYPASS PUMPING)" (LUMP SUM) AS PER SAWS STANDARD SPECIFICATION FOR WATER AND SANITARY SEWER CONSTRUCTION, ITEM NO. 864, "BYPASS PUMPING".

19. PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING FORCE MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT 233-3500 AND/OR SAWS PRODUCTION GROUPS AT LEAST ONE WEEK OR MORE IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.

20. ELEVATIONS POSTED FOR TOP OF MANHOLES ARE FOR REFERENCE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ALLOWANCES AND ADJUSTMENTS FOR TOP OF MANHOLES TO MATCH THE FINISHED GRADE OF THE PROJECT'S IMPROVEMENTS. (NSPI).

21. THE CONTRACTOR SHALL NOTIFY JUAN C. RAMIREZ AT (210) 233-3558 AND SAWS E.O.C. AT (210) 233-2015 A MINIMUM OF 72 HOURS, NOT COUNTING WEEKENDS OR SAWS HOLIDAYS, BEFORE WORKING ON THE PIPE OR MANHOLE. IN ORDER TO HAVE SAWS REMOVE THE SMART COVER, ANY DAMAGE DONE TO THE SMART COVER WILL BE CHARGED TO THE CONTRACTOR THROUGH A CHANGE ORDER.

LOCATOR NOTE:
CALL THE STATE WIDE "ONE CALL LOCATOR" AT 1-800-344-8377, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.

CABLE T.V. NOTE:
CONTRACTOR TO CONTACT THE TIME WARNER CABLE LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 352-4672. CONTRACTOR HAS RESPONSIBILITY TO PROTECT AND SUPPORT CABLE T.V. PLANT DURING CONSTRUCTION.

TELEPHONE NOTE:
THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR TO CONTACT THE TELEPHONE COMPANY CABLE LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 1-800-828-5127. CONTRACTOR HAS THE RESPONSIBILITY TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION.

C.P.S. NOTES:
DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, C.P.S. ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT.

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| SUMMARY OF SANITARY SEWER QUANTITIES | | | |
|--------------------------------------|--|-------|----------|
| ITEM # | DESCRIPTION | UNITS | QUANTITY |
| 206 | ASPHALT TREATED BASE (10" COMPACTED DEPTH) | SY | 20 |
| 413 | FLOWABLE FILL | CY | 2 |
| 558 | TRENCH EXCAVATION PROTECTION | LF | 175 |
| 848 | 10" PVC SDR-26 (2241) SEWER LINE (6'-14') | LF | 175 |
| 852 | SANITARY SEWER MANHOLE (0'-6') | EA | 1 |
| 852 | SANITARY SEWER DROP MANHOLE (0'-6') | EA | 1 |
| 852 | EXTRA DEPTH MAHOLES (>6') | VF | 5 |
| 855 | RECONSTRUCTION OF EXISTING MANHOLE | EA | 2 |
| 864 | BY-PASS PUMPING | LS | 2 |
| 866 | SAN. SWR. PRE TELEVISION INSP. (8"-15") | LF | 175 |
| 866 | SAN. SWR. POST TELEVISION INSP. (8"-15") | LF | 175 |

CITY OF SAN ANTONIO FLATWORK NOTE



1. ALL LIMITS FOR CURB, SIDEWALK, AND TREE PREP BEYOND WHAT IS CONSIDERED INCIDENTAL TO NORMAL UTILITY CONSTRUCTION WILL BE ADDRESSED BY THE SAWS INSPECTOR. ALL COMMUNICATION FROM THE CITY WILL BE COORDINATED THROUGH THE SAWS INSPECTOR. SAWS INSPECTOR WILL ALSO DETERMINE IF ADDITIONAL COMPENSATION IS WARRANTED IF LIMITS EXCEED INCIDENTALS.

CPS NOTE

1. CONTRACTOR SHALL MAINTAIN ADEQUATE WORKING CLEARANCE FROM OVERHEAD UTILITIES IN COMPLIANCE WITH C.P.S. REQUIREMENTS.

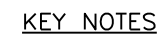


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|  S&GE, L.L.C. TBPE Firm No. F-8038 | | | |
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| 1 | ADDENDUM NO. 1 | JG | 8/11/17 |
| No. | Revision | Drawn | Approved Date |
| REVISIONS | | | |
|  | | MEDICAL CENTER LOUIS PASTEUR AT EWING HALSELL SEWER IMPROVEMENTS GENERAL NOTES AND QUANTITIES | |
| DEVELOPER: | | | |
| CONT. | | BUDGET PROJ. | |
| SUBMITTED _____ | | | |
| APPROVED _____ | | | |
| MAP No. | | SHEET | |
| SECT. No. | | 2 | |
| DR. | CK. | JOB No. 16-5529 | Of 5 |

A triangle with the number 1 inside.

SCALE: 1"=40'(H), 1"=10'(V)



- ① EMBED WASTEWATER MAIN IN FLOWABLE FILL FOR ONE FULL PIPE SEGMENT UNDER WATER MAIN PLUS 12" BEYOND JOINT ON EACH END.
- ② RE-SOD ALL DISTURBED AREAS. RESTORATION OF GRASSY AREA IS COVERED UNDER SECTION 804.5(d) TRENCH SURFACE RESTORATION (N.S.P.I.).
- ③ PROTECT AND PRESERVE TREE. REFER TO COSA TREE PRESERVATION SHEETS FOR REQUIRED PROTECTIVE MEASURES.
- ④ ELEVATED SIDEWALK AND HANDRAIL REFER TO COSA DRAINAGE PLANS.
- ⑤ TRAFFIC CONTROL PLAN SHALL BE EXTENDED AS REQUIRED TO COVER ALL SEWER WORK (N.S.P.I.).
- ⑥ DEMOLITION AND RECONSTRUCTION OF ELEVATED SIDEWALK, CURBS, AND CHANNEL IS INCLUDED AS PART OF STREET AND DRAINAGE WORK (N.S.P.I.).

LEGEND

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|-------------------------------|--|
| PROP. WATER MAIN | |
| EXIST. WATER MAIN | |
| GAS MAIN | |
| SANITARY SEWER | |
| STORM SEWER | |
| UTILITY POLE LINE | |
| ELECTRIC CABLE | |
| TELEPHONE CABLE | |
| DUAL BRANCH SERV. | |
| NEW UNMETERED SERVICE: | |
| 3/4" SINGLE | |
| 1" DUAL | |
| SERVICE RECONNECT: | |
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| 1" OR LARGER | |
| SERVICE RELAY: | |
| 3/4" | |
| 1" OR LARGER | |
| SERVICE RELOCATE: | |
| 3/4" | |
| 1" OR LARGER | |
| RELOCATE METER | |
| NEW SERVICE: | |
| 3/4" | |
| 1" OR LARGER | |
| UNDER GROUND ELEC. | |
| OVERHEAD ELEC. | |
| EXIST FENCE | |
| WATER METER | |
| TELE PEDESTAL | |
| LIGHT POLE | |
| POWER POLE/GUY WIRE | |
| SIGN | |
| MAIL BOX | |
| EXIST CLEAN OUT | |
| EXISTING GAS & WATER CROSSING | |

 **S&GE, L.L.C.**
TBPE Firm No. F-8038

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| 1 | ADDENDUM NO. 1 | | JG | 8/11/17 |
| No. | Revision | Drawn | Approved | Date |

REVISIONS



**MEDICAL CENTER
LOUIS PASTEUR AT EWING HALSELL
SEWER IMPROVEMENTS
LINE A STA. 0+20 TO STA.
3+25 PLAN AND PROFILE**

DEVELOPER:

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| CONT. | BUDGET PROJ. |
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SUBMITTED _____

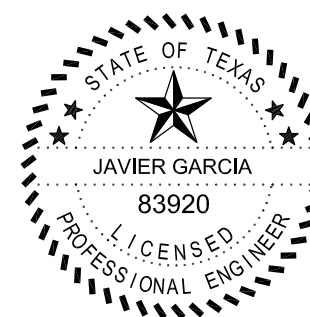
APPROVED _____

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|-----|-----|-----------------|------|
| DR. | CK. | JOB No. 16-5529 | OF 5 |
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TRENCH EXCAVATION SAFETY PROTECTION: CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURE/DESIGN/GEOTECHNICAL/SAFETY/ EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH, AS A MINIMUM, OSHA STANDARDS FOR PROTECTION OF SPECIFICALLY IDENTIFIED CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.



6/30/17