

# Town of Addison, Texas, Dallas County

## WASTEWATER BASIN I SEWER OUTFALL RE-ROUTE AND WATER IMPROVEMENTS

### BELTWAY DRIVE FROM MIDWAY ROAD TO PARKING LOT-BELTWOOD PARKWAY ( 2550 LF)

### BID NUMBER 20-54

January, 2020



**MAYOR**  
Joe Chow

**COUNCIL**

|                       |                          |
|-----------------------|--------------------------|
| Tom Braun             | Mayor Pro Tempore        |
| Lori Ward             | Deputy Mayor Pro Tempore |
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**CITY MANAGER**

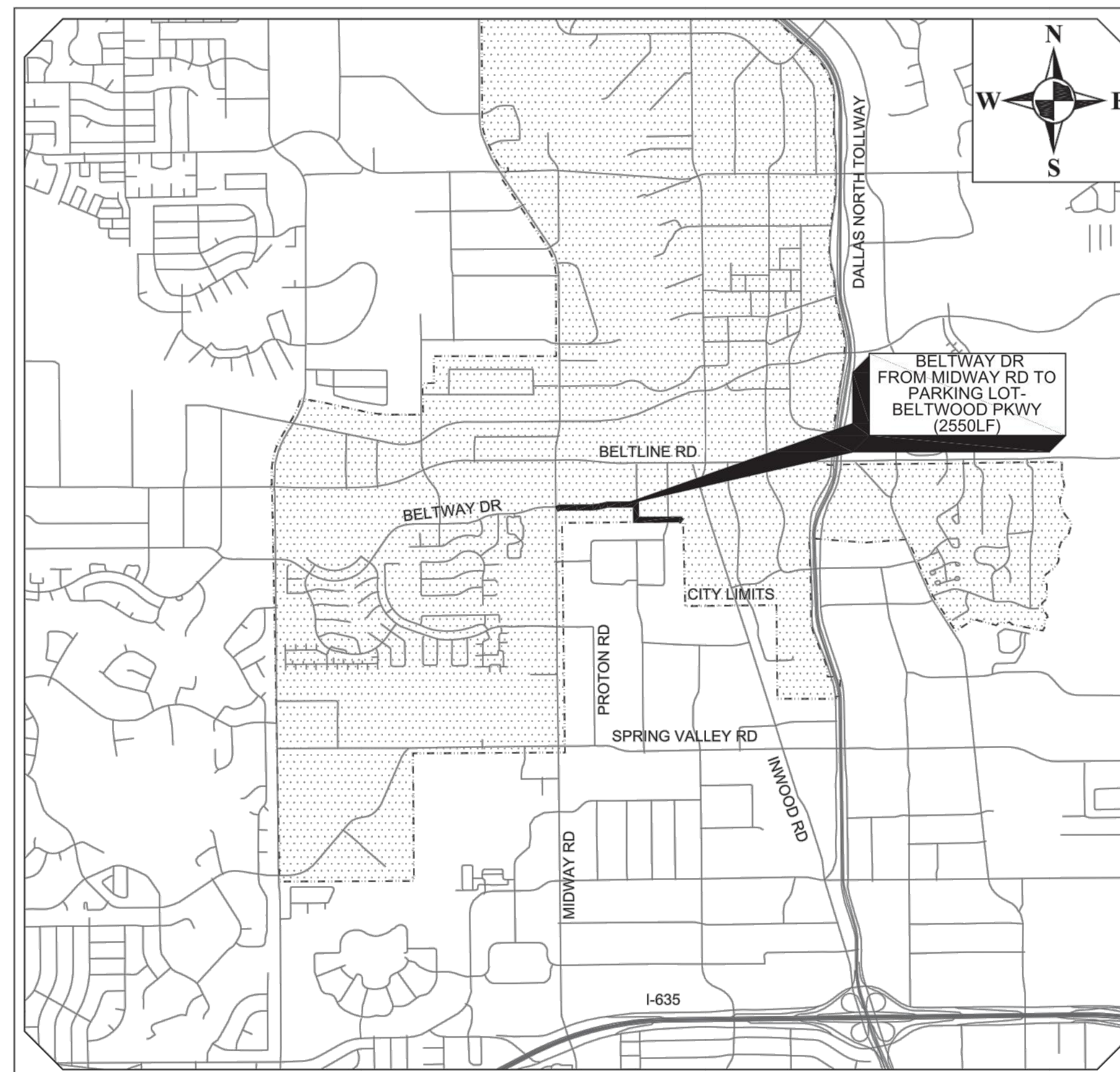
Wesley S. Pierson

**Director of Public Works & Engineering Services**

Lisa A. Pyles

**Capital/Development Projects Manager - Public Works & Engineering Services**

Wilson K. Kakembo, P.E.



Town of Addison Location Map MAPSCO 14 G  
Scale: N.T.S.



CONTACT BY CALLING 811 OR USING GEOREMOTE OR LOCATE AT LEAST 2 WORKING DAYS BEFORE YOU DIG. FOR MORE INFORMATION SEE www.texas811.org

**DANNENBAUM**  
ENGINEERING COMPANY - DALLAS, LLC  
T.B.P.E. FIRM REGISTRATION #8996  
3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

SHEET INDEX

| SHEET NO. | SHEET TITLE   |
|-----------|---|
| 01        | COVER   |
| 02        | GENERAL NOTES & LEGEND                                  |
| 03        | TRAFFIC NOTES   |
| 04        | PAY ITEMS AND BID QUANTITIES                            |
| 05        | PROPOSED EASEMENTS                                      |
| 06        | SANITARY SEWER SHEET LAYOUT                             |
| 07        | PROPOSED 15" SS LINE 'A' PLAN & PROFILE BEGIN-STA 17+00 |
| 08        | PROPOSED 15" SS LINE 'A' PLAN & PROFILE STA 17+00-20+00 |
| 09        | PROPOSED 15" SS LINE 'A' PLAN & PROFILE STA 20+00-23+50 |
| 10        | PROPOSED 15" SS LINE 'A' PLAN & PROFILE STA 23+50-27+50 |
| 11        | PROPOSED 15" SS LINE 'A' PLAN & PROFILE STA 27+50-31+75 |
| 12        | PROPOSED 15" SS LINE 'A' PLAN & PROFILE STA 31+75-36+00 |
| 13        | PROPOSED 15" SS LINE 'A' PLAN & PROFILE STA 36+00-END   |
| 14        | PROPOSED 8" SS LINE 'B' PLAN & PROFILE                  |
| 15        | SANITARY SEWER DETAILS (1 OF 3)                         |
| 16        | SANITARY SEWER DETAILS (2 OF 3)                         |
| 17        | SANITARY SEWER DETAILS (3 OF 3)                         |
| 18        | WATERLINE SHEET LAYOUT                                  |
| 19        | PLAN & PROFILE WL STA 1+00-5+50                         |
| 20        | PLAN & PROFILE WL STA 5+50-8+50                         |
| 21        | PLAN & PROFILE WL STA 8+50-END                          |
| 22        | WATER DETAILS (1 OF 3)                                  |
| 23        | WATER DETAILS (2 OF 3)                                  |
| 24        | WATER DETAILS (3 OF 3)                                  |
| 25        | PAVE RESTORATION BEGIN TO STA 17+00                     |
| 26        | PAVE RESTORATION STA 17+00 TO 23+50                     |
| 27        | PAVE RESTORATION STA 23+50 TO 31+75                     |
| 28        | PAVE RESTORATION STA 31+75 TO END                       |
| 29        | INLET PROTECTION MAP                                    |
| 30        | STANDARD DETAILS EROSION CONTROL                        |
| 31        | STANDARD DETAILS TRENCHLINE & RESTORATION (1 OF 2)      |
| 32        | STANDARD DETAILS TRENCHLINE & RESTORATION (2 OF 2)      |
| 33        | STANDARD DETAILS PAVING (1 OF 2)                        |
| 34        | STANDARD DETAILS PAVING (2 OF 2)                        |

THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT; MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS, THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER, CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWINGS ARE ON FILE AT THE OFFICES OF THE TOWN OF ADDISON. WM BART HINES, P.E. No. 49126 DATE 4/26/2021

SUBMITTED BY: *Wm. Bart Hines* DATE: 1/3/2020

Wm. Bart Hines, P.E.  
Dannenbaum Engineering Company-Dallas, LLC

APPROVED BY: *Wilson K. Kakembo* DATE: 1/3/2020

Wilson K. Kakembo, P.E.

| REV. NO. | DESCRIPTION | CHK. BY | DATE |
|----------|-------------|---------|------|
|          |             |         |      |

Drawing File: C:\2020\5132-01 Addison Basin I Final Design\CAD\Sheets\01-COVER.dwg DATE: Jan 03, 2020 TIME: 10:36am

**GENERAL NOTE**

- 1. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR SHALL BE FAMILIAR WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS, THE PLANS (INCLUDING ALL NOTES), THE TOWN OF ADDISON SPECIFICATIONS AND ANY OTHER APPLICABLE STANDARDS OR SPECIFICATIONS RELEVANT TO THE PROPER COMPLETION OF THE WORK SPECIFIED. FAILURE ON THE PART OF THE CONTRACTOR TO BE FAMILIAR WITH ALL STANDARDS AND SPECIFICATIONS PERTAINING TO THIS WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PERFORMING THE WORK IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS.
- 2. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL HAVE IN THEIR POSSESSION ALL NECESSARY PERMITS, PLANS, LICENSES, ETC. CONTRACTOR SHALL HAVE AT LEAST ONE SET OF APPROVED ENGINEERING PLANS AND SPECIFICATIONS ON-SITE AT ALL TIMES.
- 3. ALL WORK SHALL CONFORM TO THE TOWN OF ADDISON DESIGN MANUALS AND STANDARDS. IN THE EVENT AN ITEM IS NOT COVERED IN THE PLANS OR THE TOWN OF ADDISON DESIGN MANUALS AND STANDARDS, THE MOST CURRENT NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION SHALL APPLY WITH CONCURRING NOTIFICATION TO THE TOWN ENGINEER AND PROJECT ENGINEER. THE TOWN ENGINEER SHALL HAVE THE FINAL DECISION ON ALL CONSTRUCTION MATERIALS, METHODS, AND PROCEDURES.
- 4. CONSTRUCTION INSPECTION WILL BE PERFORMED BY REPRESENTATIVES OF THE TOWN, ENGINEER, TOWN, GEOTECHNICAL ENGINEER, AND REVIEWING AUTHORITIES AND AGENCIES. UNRESTRICTED ACCESS SHALL BE PROVIDED TO THEM AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND SCHEDULING REQUIRED INSPECTIONS. TESTING SAMPLES SHALL BE COLLECTED AND PROCESSED BY CERTIFIED TECHNICIANS.
- 5. ALL CONTRACTORS MUST CONFINED THEIR ACTIVITIES TO THE WORK AREA. NO ENCROACHMENTS ONTO DEVELOPED OR UNDEVELOPED AREAS WILL BE ALLOWED. ANY DAMAGE RESULTING THEREFROM SHALL BE CONTRACTOR'S RESPONSIBILITY TO REPAIR AT NO ADDITIONAL COST TO THE TOWN.
- 6. IT WILL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO PROTECT ALL EXISTING PUBLIC AND PRIVATE UTILITIES THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES FOR LINE LOCATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL ASSUME FULL LIABILITY TO THOSE COMPANIES FOR ANY DAMAGES CAUSED TO THEIR FACILITIES.

**WATER NOTES**

- 1. DESIGN CRITERIA FOR THE TOWN OF ADDISON (TOA) WATER SYSTEM SHALL COMPLY WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) CHAPTER 290 RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS, (MOST CURRENT REVISION).
- 2. APPROVED PERMITS FROM AGENCIES OTHER THAN THE TOWN SHALL BE SUBMITTED TO THE TOWN.
- 3. ALL PLANS SHALL BE PREPARED BY A PROFESSIONAL CIVIL ENGINEER LICENSED IN THE STATE OF TEXAS.
- 4. MINIMUM COVER FOR WATERLINES IS 48" OR AS REQUIRED TO CLEAR EXISTING UTILITIES, WHICHEVER IS GREATER.
- 5. ALL WATER MAINS TWELVE INCHES (12") IN DIAMETER OR SMALLER SHALL BE AWWA C-900 PVC PRESSURE PIPE (BLUE), WITH CAST IRON OUTSIDE DIAMETER (C.I.O.D.) OR APPROVED EQUAL. PIPES THAT PENETRATE CONCRETE VAULT WALLS SHALL BE DUCTILE IRON. PIPE JOINTS SHALL BE THICKENED BELL WITH INTEGRAL RUBBER RING GASKET, ASSEMBLED WITH FACTORY SUPPLIED LUBRICANT. JOINT MATERIAL SHALL CONFORM TO ASTM F477 AND ASTM D3139. WATER MAINS SHALL HAVE A MINIMUM PRESSURE CLASS RATING OF 235 PSI (DR-18). PIPE FOR FIRE SERVICE OR FIRE HYDRANT LEADS SHALL HAVE A PRESSURE CLASS RATING OF 305 PSI (DR-14).
- 6. MARKING TAPE SHALL BE INSTALLED OVER PVC WATER LINES.
- 7. ALL WATER MAIN FITTINGS SHALL BE FULL-BODIED, DOMESTIC (USA) DUCTILE IRON, MECHANICAL JOINT TYPE, RATED AT 250 PSI. ALL MECHANICAL JOINTS SHALL EMPLOY RESTRAINING GLANDS (EBAA MEGA-LUG OR APPROVED EQUAL). ALL FITTINGS SHALL BE WRAPPED WITH 8MIL POLY PRIOR TO EMBEDMENT AND BACKFILL. COMPACT FITTINGS ARE NOT PERMITTED UNLESS PRE-APPROVED BY ADDISON PUBLIC WORKS & ENGINEERING SERVICES (APWES).
- 8. VALVES SHALL BE MUELLER RESILIENT SEAT GATE VALVES.
- 9. ALL DIRECT BURIAL VALVES SHALL BE PROVIDED WITH CAST IRON VALVE BOXES WITH PVC STACKS. VALVE STACKS SHALL BE VERTICAL AND CONCENTRIC WITH THE VALVE STEM. STAINLESS STEEL VALVE EXTENSIONS ARE REQUIRED ON ALL VALVES WHERE THE OPERATING NUT IS GREATER THAN 4 FEET BELOW FINISHED GRADE.
- 10. FIRE HYDRANTS SHALL BE MUELLER SUPER CENTURION AND BE FIELD PAINTED AND COLOR CODED AS DIRECTED BY THE TOWN.
- 11. THE DISTANCE FROM FIRE HYDRANTS TO THE EDGE OF PAVEMENT FOR PUBLIC STREETS OR EDGE OF FIRE LANE SHALL NOT EXCEED FIVE FEET UNLESS OTHERWISE PERMITTED BY THE TOWN ENGINEER.
- 12. ALL EXPOSED BOLTING ON ANY BURIED EQUIPMENT OR MATERIAL SHALL BE STAINLESS STEEL. INCLUDED ARE:
  - A. BONNET AND STUFFING BOX BOLTS ON VALVES.
  - B. SHOE BOLTS ON FIRE HYDRANTS.
  - C. FLANGE BOLTS."COR-TEN" MECHANICAL JOINT "T" BOLTS ARE ACCEPTABLE FOR DIRECT BURIAL SERVICE.

**SANITARY SEWER NOTES**

- 1. DESIGN CRITERIA FOR ALL WASTEWATER SYSTEMS SHALL COMPLY WITH TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) CHAPTER 217 (DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEMS), LATEST REVISION.
- 2. NO WASTEWATER MAIN, OTHER THAN LATERALS AND FORCE MAINS, SHALL BE LESS THAN EIGHT-INCH (8") IN DIAMETER.
- 3. PERMITS FROM AGENCIES OTHER THAN THE TOWN MUST BE SUBMITTED THROUGH THE TOWN.
- 4. WASTEWATER MAINS IN RIGHT OF WAY SHALL BE INSTALLED IN THE STREET AT FIVE FEET (5') FROM THE FACE OF CURB ON THE OPPOSITE SIDE OF THE STREET AS THE WATER MAIN OR AS OTHERWISE DIRECTED BY THE PUBLIC WORKS DEPARTMENT.
- 5. THE SIZES AND LOCATIONS OF MANHOLES, WYES, BENDS, TAP CONNECTIONS, ETC., SHALL BE APPROVED BY THE TOWN ENGINEER.
- 6. PUBLIC WASTEWATER MAIN SHALL BE LOCATED AT LEAST FIVE FEET (5') FROM ANY TREE UNLESS APPROVED BY THE PUBLIC WORKS & ENGINEERING SERVICES.
- 7. WHERE A NEW NON-PRESSURE RATED WASTEWATER MAIN OR LATERAL CROSSES UNDER A NEW WATER MAIN, THE WASTEWATER MAIN OR LATERAL SHALL BE EMBEDDED IN CEMENT STABILIZED SAND FOR THE TOTAL LENGTH OF ONE PIPE SEGMENT PLUS TWELVE INCHES (12") BEYOND THE JOINT ON EACH END AND THERE SHALL BE A MINIMUM OF TWENTY-FOUR INCHES (24") OF CLEARANCE OR OTHERWISE AS GOVERNED BY TCEQ CHAPTER 217 REQUIREMENTS.
- 8. ALL GRAVITY WASTEWATER MAINS SHALL BE IN GREEN IN COLOR. FOUR-INCH (4") TO FIFTEEN-INCH (15") PIPE SHALL BE PVC SDR 35 OR 26 (ASTM D3034). EIGHTEEN-INCH (18") AND LARGER PIPE SHALL BE PVC ASTM F679. PVC FITTINGS MAY BE EITHER GREEN OR WHITE IN COLOR.
- 9. ALL MAINS TO BE INSTALLED UNDER EXISTING ROADWAY SHOULD BE INSTALLED BY BORE UNLESS OTHERWISE APPROVED BY THE TOWN ENGINEER. RUST RESISTANT STEEL CASING MINIMUM ONE-FOURTH-INCH (1/4") THICK, OR THICKER IF DEEMED NECESSARY BY THE DESIGN ENGINEER, SHALL BE USED WITH RACI PATENTED CASING SPACERS, OR APPROVED EQUAL. NO WOOD SKIDS WILL BE PERMITTED.
- 10. PVC PIPE USED FOR FORCE MAINS SHALL BE WHITE IN COLOR. TWELVE-INCH (12") AND SMALLER PIPE SHALL BE ASTM 2241 SDR 21. PIPES LARGER THAN TWELVE-INCH (12") SHALL BE C905 DR25.
- 11. PROFILE WALL PIPE SHALL NOT BE PERMITTED IN THE TOWN OF ADDISON WITHOUT WRITTEN AUTHORIZATION BY THE TOWN ENGINEER. IF ALLOWED BY THE TOWN ENGINEER, TWENTY-FOUR INCHES (24") AND LARGER PROFILE WALL PIPE SHALL CONFORM TO ASTM 794 AND THE TOWN OF ADDISON SPECIFICATIONS. "HELICALLY WOUND" OR "PIPE STIFFNESS SERIES 10" PROFILE WALL PIPE WILL NOT BE ALLOWED.
- 12. CEMENT STABILIZED SAND SHALL HAVE A MINIMUM OF TEN PERCENT (10%) CEMENT PER CUBIC YARD OF CEMENT STABILIZED SAND MIXTURE, BASED ON LOOSE DRY WEIGHT VOLUME (AT LEAST 2.5 BAGS OF CEMENT PER CUBIC YARD OF MIXTURE). THE CEMENT STABILIZED SAND BEDDING SHALL BE A MINIMUM OF SIX INCHES (6") ABOVE AND FOUR INCHES (4") BELOW THE WASTEWATER MAIN OR LATERAL. BROWN COLORING SHALL BE ADDED TO THE CEMENT STABILIZED SAND MIXTURE FOR PRESSURE RATED WASTEWATER MAIN OR LATERAL BEDDING.
- 13. LINE AND GRADE STAKES FOR CONSTRUCTION OF ALL MAINS AND LATERALS SHALL BE FURNISHED BY THE DEVELOPER'S ENGINEER OR THEIR DESIGNATED REPRESENTATIVE. PROPERTY LINES AND CORNERS MUST BE PROPERLY STAKED TO ENSURE CORRECT ALIGNMENT. THE TOWN WILL NOT BE LIABLE FOR IMPROPER ALIGNMENT OR DELAY OF ANY KIND CAUSED BY IMPROPER OR INADEQUATE SURVEYS BY THE DEVELOPER OR BY INTERFERENCE OF OTHER UTILITIES.

- 7. TRENCH SAFETY DESIGN WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL SUBMIT A TRENCH SAFETY AND SHORING DESIGN, SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS, TO THE TOWN ENGINEERING INSPECTOR FOR REVIEW PRIOR TO THE START OF ANY UNDERGROUND UTILITY CONSTRUCTION.
- 8. IF ANY CONFLICT ARISES BETWEEN THESE GENERALS NOTES AND ANY OTHER NOTES FOUND IN THE PLANS, THE ADDISON GENERAL NOTES SHALL TAKE PRECEDENCE.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ANY TEMPORARY RIGHT OF WAY/ LANDING RIGHTS FOR THE DURATION OF THE CONTRACT FOR THE PURPOSE OF A STAGING AREA: STORAGE OF EQUIPMENT AND MATERIAL, EMPLOYEE PARKING, ETC. THE TOWN OF ADDISON IS NOT SUPPLYING THE PARCEL 5 (PLAN SHEET 5) FOR A STAGING AREA FOR THIS PROJECT.
- 10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, PRIOR TO THE INITIATION OF CONSTRUCTION ON EASEMENTS THROUGH PRIVATE PROPERTY, TO INFORM THE PROPERTY OWNER OF ITS INTENT TO BEGIN CONSTRUCTION. BEFORE BEGINNING CONSTRUCTION IN AREAS OF PUBLIC DEDICATION, THE CONTRACTOR SHALL INFORM THE AGENCY HAVING JURISDICTION IN THE AREA FORTY-EIGHT (48) HOURS PRIOR TO INITIATION OF THE WORK. ALL EASEMENTS SHALL BE CLEANED UP AFTER USE AND RESTORED TO THEIR ORIGINAL CONDITIONS OR BETTER.
- 11. THE CONTRACTOR WILL BE REQUIRED TO WORK ONLY DURING THE EVENING HOURS (8:00PM TO 6:00AM) FOR THE AREAS WITHIN PARCELS 1, 2 AND 3. ANY DAY TIME CONSTRUCTION IN THE PARCELS 1, 2 AND 3 AREA MUST BE APPROVED BY THE TOWN OF ADDISON AND NEGOTIATED WITH THE PROPERTY OWNERS/ TENANTS.
- 12. THE CONTRACTOR WILL BE REQUIRED TO WORK ONLY DURING THE EVENING HOURS (8:00PM TO 6:00AM) FOR THE AREAS WITHIN PARCELS 1, 2 AND 3. IF WORK, PIPELINE PLACEMENT, IN A TRENCH IS INCOMPLETE OR TRENCH IS NOT BACKFILLED BEFORE 6:00AM, THEN THAT AREA MUST BE COVERED DURING THE NON-WORKING (DAYLIGHT) HOURS WITH STEEL PLATES, DESIGNED TO WITHSTAND H=20 TRUCK LIVE LOADS. TEMPORARY ASPHALT PAVING MAY BE ALLOWED FOR PAVEMENT OVER COMPLETED PIPE INSTALLATION AND BEFORE PERMANENT CONCRETE PAVING IS PLACED, IN LIEU OF STEEL PLATES AND AS DIRECTED BY THE TOWN OF ADDISON
- 13. METER BOXES SHALL BE AS APPROVED BY THE TOWN CONTACT THE TOWN ENGINEER FOR SPECIFICATIONS. METER BOX SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
- 14. ALL WATER MAIN FITTINGS SHALL BE FULL-BODIED, DOMESTIC (USA) DUCTILE IRON, MECHANICAL JOINT TYPE, RATED AT 250 PSI.
- 15. ALL MECHANICAL JOINTS SHALL EMPLOY RESTRAINING GLANDS (EBAA MEGA-LUG OR APPROVED EQUAL).
- 16. ALL FITTINGS SHALL BE WRAPPED WITH 8MIL POLY PRIOR TO EMBEDMENT AND BACKFILL. COMPACT FITTINGS ARE NOT PERMITTED UNLESS PRE-APPROVED BY APWES
- 17. ALL FIRE HYDRANTS INSTALLED FOR USE IN THE TOWN OF ADDISON SHALL MEET OR EXCEED AWWA STANDARD C502-85 (MOST CURRENT REVISION).
- 19. FIRE HYDRANTS SHALL HAVE A 5/8" MINIMUM VALVE OPENING. RATED WORKING PRESSURE SHALL BE AT LEAST 150 PSI; TEST PRESSURE SHALL BE 300 PSI AND THE HYDRANT SHALL BE CAPABLE OF FLOWING 1000 GPM (CLASS A).
- 20. ALL HYDRANTS SHALL BE MANUFACTURED IN THE UNITED STATES.
- 21. HYDRANT SHALL BE WARRANTED BY THE MANUFACTURER FOR A MINIMUM OF 5 YEARS.
- 22. LARGE FIRE SERVICES SHALL, AT MINIMUM, CONSIST OF A DOUBLE-CHECK DETECTOR ASSEMBLY (DCCA) IN A VAULT (SEE TOA STANDARD CONSTRUCTION DETAIL SD-W22), PLACED WITHIN THE ROW OR A WATER EASEMENT.
- 23. IF SITE CONDITIONS PRECLUDE THE INSTALLATION OF A VAULT AT THE PROPERTY LINE, ALTERNATIVE INSTALLATIONS MUST BE APPROVED BY APWES. SUCH CASES WILL REQUIRE A "DEMARCATON VALVE" AND A 2" SERVICE TAP TO BE INSTALLED ON THE UPSTREAM SIDE OF THE VALVE AT THE PROPERTY LINE.
- 24. THERE SHALL BE NO TAPS OR T'S INSTALLED BETWEEN THAT VALVE AND THE FIRE SERVICE RISER.
- 25. ALL LARGE FIRE SERVICES SHALL PASS A 200 PSI, TWO HOUR PRESSURE TEST, AND A BACTERIOLOGICAL TEST, FROM THE SERVICE VALVE TO THE RISER.
- 26. FIRE SERVICES LESS THAN OR EQUAL TO TWO INCH (2") SHALL BE A HERSEY CLASS I MVR™ TURBINE, AND SHALL HAVE THE APPROPRIATE BPA INSTALLED DOWNSTREAM OF THE METER.
- 27. ALL WATER SERVICES/METER BOXES SHALL BE SET IN THE RIGHT-OF-WAY OR UTILITY EASEMENT, LOCATED AS APPROVED BY APWES.
- 28. NO METER SHALL BE INSTALLED IN AN AREA PAVED FOR VEHICULAR TRAFFIC OR PARKING.
- 29. ALL SERVICES SHALL INCLUDE AN APPROVED BACKFLOW PREVENTION ASSEMBLY (BPA) IMMEDIATELY DOWNSTREAM OF THE METER, OR AS APPROVED BY APWES (SEE STANDARD CONSTRUCTION DETAIL SD-W20 SHEET 22).
- 30. ALL SERVICE TAPS SHALL BE INSPECTED AND APPROVED BY APWES.

- 14. ALL WASTEWATER MAINS SHALL BE TESTED FOR INFILTRATION AND EXFILTRATION IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND AS SHOWN ON THE PLANS. VIDEO CAMERA INSPECTIONS, LOW PRESSURE AIR TESTING, VACUUM TESTING OF THE MANHOLES AND MANDREL TESTING ARE REQUIRED ON ALL SEWER LINES. IN ADDITION, ALL RESIDENTIAL AND COMMERCIAL WASTEWATER SERVICES SHALL HAVE VIDEO CAMERA INSPECTIONS. ALL VIDEO CAMERA INSPECTIONS SHALL INCLUDE AN INCLINATION STUDY. ALL TESTING SHALL BE COMPLETED, REVIEWED AND APPROVED BY THE TOWN OF ADDISON PRIOR TO ANY FINAL INSPECTIONS OR ISSUE OF CERTIFICATE OF OCCUPANCY.
- 15. MINIMUM COVER SHALL BE FOUR FEET (4').
- 16. MANHOLES SHALL HAVE A 400LBS TRAFFIC BEARING FRAME AND COVER WITH A DESIGN STRENGTH OF 4000 PSI AT TWENTY-EIGHT (28) DAYS.
- 17. DROP MANHOLES SHALL BE REQUIRED WHEN THE INFLOW ELEVATION IS MORE THAN TWENTY-FOUR INCHES (24") ABOVE THE OUTFLOW ELEVATION.
- 18. IN FLOOD PLAINS, SEALED MANHOLES "TYPE S" SHALL BE USED TO PREVENT THE ENTRANCE OF STORM WATER. COATING IN MANHOLE WHERE MORE THAN THREE MANHOLES IN SEQUENCE ARE TO BE BOLTED AND GASKETED, EVERY THIRD MANHOLE SHALL BE VENTED TWO FEET (2') ABOVE THE ONE HUNDRED (100) YEAR FLOODPLAIN ELEVATION OR TEN FEET (10') ABOVE THE ADJACENT GROUND LINE, WHICHEVER IS HIGHER.
- 19. WHERE PIPES ENTER A MANHOLE THERE SHALL BE A MINIMUM OF ONE-TENTH OF A FOOT (0.1') DROP BETWEEN INLET AND OUTLET INVERTS. WHERE UNEQUAL SIZE PIPES ENTER A MANHOLE, CROWN OF PIPES SHOULD BE AT THE SAME ELEVATION.
- 20. MANHOLES SHALL HAVE INFLOW PROTECTION INSERTS, MINIMUM THICKNESS OF ONE-EIGHT INCH (1/8"), MADE OF HDPE MEETING ASTM D 1248 CLASS A, CATEGORY 5, TYPE 111. INSERT SHALL INCLUDE A LIFT STRAP AS MANUFACTURED BY KNUTSON MANHOLE INSERTS OR APPROVED OTHER.
- 21. CONSTRUCT MANHOLES AT EACH END OF MAINS THAT ARE INSTALLED BY OTHER THAN OPEN CUT AND AT EACH END OF AERIAL CROSSING LINES.
- 22. MANHOLES WILL BE REQUIRED ON SIX-INCH (6") AND LARGER LATERALS WHERE THEY CONNECT TO THE MAIN LINE.
- 23. MANHOLES WILL BE REQUIRED WHERE WASTEWATER LATERALS INTERSECT WASTEWATER MAINS THAT ARE DEEPER THAN TWELVE FEET (12'). DEEP CUT OR DROP CONNECTIONS SHALL NOT BE PERMITTED.
- 24. A DOUBLE CLEANOUT SHALL BE INSTALLED ON THE LATERAL AT THE RIGHT-OF-WAY OR EASEMENT LINE. FITTINGS ARE NOT PERMITTED ON LATERALS BETWEEN THE WYE AND THE DOUBLE CLEANOUT. A MINIMUM OF ONE (1) LATERAL PER BUILDING SHALL BE REQUIRED. ALSO, A MINIMUM OF ONE (1) LATERAL PER RESIDENTIAL LOT SHALL BE REQUIRED. SHARED LATERALS ARE NOT PERMITTED UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DEPARTMENT.
- 26. ALL MAINS INSTALLED IN FUTURE DEVELOPED AREAS SHALL INSTALL LATERALS; THE USE OF BOOTS WILL NOT BE PERMITTED.
- 27. ALL SEWER LATERALS CROSSING WATER MAINS SHALL CONFORM TO THE REQUIREMENTS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) CHAPTER 217 (DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEMS), LATEST REVISION.
- 28. THE CONTRACTOR SHALL INSTALL AND MAINTAIN WATER TIGHT PLUGS IN ALL CONNECTIONS TO THE TOWN'S SANITARY SEWER SYSTEM UNTIL THE PROJECT IS ACCEPTED BY THE TOWN.
- 29. ALL SANITARY SEWER LINES AND MANHOLES SHALL BE LEAK TESTED BEFORE THE PROJECT IS ACCEPTED. DEFLECTION TESTING OF PVC SEWER LINES IS REQUIRED.

**\* LEGEND \***

|            |                         |  |                           |
|------------|-------------------------|--|---------------------------|
| CIRF       | IRON ROD WITH CAP FOUND |  | IRRIGATION CONTROL VALVE  |
| IRF        | IRON ROD FOUND          |  | IRRIGATION SPRINKLER HEAD |
| XCF        | "X" CUT FOUND           |  | BOLLARD POST              |
| P.R.D.C.T. | PLAT RECORDS            |  | SIGN                      |
|            | ADDISON COUNTY, TEXAS   |  | RAILROAD SIGNAL           |
|            | CONTROL POINT           |  | UTILITY RISER/BOX         |
|            | PROPERTY CORNER         |  | UTILITY MANHOLE           |
|            | MARKER FOUND - AS NOTED |  | UTILITY PULL BOX          |
|            | PROPERTY CORNER SET     |  | UTILITY METER             |
|            | POWER POLE              |  | UTILITY LINE MARKER       |
|            | GUY WIRE                |  | MONITORING WELL           |
|            | LIGHT POLE              |  | OVERHEAD ELEC.            |
|            | ELECTRIC METER          |  | U.G. ELECTRIC             |
| EMK        | ELECTRIC LINE MARKER    |  | U.G. TELE. LINE           |
|            | ELECTRIC PULL BOX       |  | U.G. FIBER OPTIC          |
|            | ELECTRIC MANHOLE        |  | U.G. CABLE TV             |
|            | ELECTRIC BOX (PANEL)    |  | U.G. GAS                  |
|            | YARD LIGHT              |  | U.G. WATER                |
|            | CATV MARKER             |  | U.G. SAN. SEWER           |
|            | CATV RISER              |  | U.G. STORM SEWER          |
|            | CATV PULL BOX           |  | CHAIN LINK FENCE          |
|            | CATV MANHOLE            |  | WOOD FENCE                |
|            | TELEPHONE MARKER        |  | WIRE FENCE                |
|            | TELEPHONE RISER         |  | WROUGHT IRON FENCE        |
|            | TELEPHONE MANHOLE       |  | ASPHALT EDGE              |
|            | TELEPHONE PULL BOX      |  | CONCRETE AREA             |
|            | FIBER OPTIC MARKER      |  | GRAVEL AREA               |
|            | FIBER OPTIC PULL BOX    |  | CI                        |
|            | AC COMPRESSOR UNIT      |  | GI                        |
|            | MAILBOX                 |  | DP                        |
|            | GAS MARKER              |  | GP                        |
|            | GAS MANHOLE             |  | OWS                       |
|            | GAS METER               |  | NPS                       |
|            | GAS VALVE               |  | NTS                       |
|            | GAS TEST STATION        |  | SLS                       |
|            | TREE (AS DESCRIBED)     |  | STS                       |
|            | BUSH (GENERAL)          |  | R/W                       |
|            | CM (CREPE MYRTLE)       |  | RTS                       |
|            | WATER MANHOLE           |  | TOS                       |
|            | WATER METER             |  | TES                       |
|            | WATER VALVE             |  | X 555.55                  |
|            | WATER FAUCET            |  | EC 555.55                 |
|            | FIRE HYDRANT            |  | GT 555.55                 |
|            | SAN. SEWER MANHOLE      |  | TC 555.55                 |
|            | SAN. SEWER CLEANOUT     |  | TW 555.55                 |
|            | STORM DRAIN MANHOLE     |  | SUBJECT PROPERTY LINE     |
|            | INLET RIM               |  | EXISTING EASEMENT LINE    |
|            | TRAFFIC SIGNAL LIGHT    |  | BUILDING SETBACK LINE     |
|            | TRAFFIC SIGNAL BOX      |  | FIRELINE PAINT MARKS      |
|            |                         |  | INVERT REFERENCE          |
|            |                         |  | CANOPY - COVERED AREA     |

**SPECIAL NOTE**

- 1. BEFORE BEING ACCEPTED ALL PVC PLASTIC PIPE CONSTRUCTED SHALL BE TESTED WITH A HYDROSTATIC TEST PRESSURE OF NOT LESS THAN 150 PSI, MAINTAINED OVER A PERIOD OF TIME NOT LESS THAN 4 HOURS UNLESS OTHERWISE SPECIFIED BY THE TOWN. SEE SPECIFICATION 506.5 HYDROSTATIC TEST.
- 2. THE CONTRACTOR MUST NOTIFY THE TOWN AT LEAST 48 HOURS IN ADVANCE OF A REQUIRED VALVE SHUTDOWN OR IMPACTS TO THE EXISTING WATER AND SEWER SYSTEM.
- 3. THE CONTRACTOR MUST NOTIFY THE TOWN AT LEAST 5 DAYS IN ADVANCE OF A REQUIRED VALVE SHUTDOWN OR IMPACTS TO THE EXISTING WATER AND SEWER SYSTEM THAT OCCURS **AFTER NORMAL BUSINESS HOURS**.
- 4. WATER TIE IN CONNECTIONS AFFECTING CURTALMENT OF QUALITY OR QUANTITY OF WATER TO AN AREA, BUSINESS, ETC. MUST BE PERFORMED DURING THE WEEKEND OR OFF HOURS OR AS DETERMINED TO BE MOST ADVANTAGEOUS TO THE TOWN. ALL TIE IN MUST BE COORDINATED THROUGH THE TOWN OR ITS REPRESENTATIVE.
- 5. BEFORE NEWLY CONSTRUCTED WATER PIPELINES/ CONDUITS SHALL BE PERMITTED TO BE PLACED IN SERVICE, IT SHALL BE PURGED AND DISINFECTED (VIA CHLORINATION) AND TESTED FOR BACTERIAL COUNT. DISINFECTION OF THE WATER PIPELINE SHALL BE ACCOMPLISHED BY A "CONTINUOUS FEED" METHOD AS PER AWWA STANDARD C651-92.
- 6. HIGHLY CHLORINATED WATER USED TO DISINFECT THE NEW WATER LINES CAN BE TOXIC TO LIVING THINGS. THE CHLORINATED WATER SHOULD BE DISCHARGED INTO A SEWER MANHOLE, PROVIDED THE SYSTEM HAS CAPACITY TO HANDLE THE FLOW.
- 7. GRAVITY SEWER FLEXIBLE PIPE SHALL BE TESTED FOR DEFLECTION NO SOONER THAN 30 DAYS AFTER COMPLETE PIPE PLACEMENT AND COMPACTION OF BACKFILL. DEFLECTION MEASUREMENT REQUIRES A RIGID MANDREL. A RIGID MANDREL SHALL HAVE AN OUTSIDE DIAMETER NOT LESS THAN 95% OF THE BASE INSIDE DIAMETER OF THE PIPE, AS SPECIFIED BY ASTMS, AWWA, UNIBELL AND ANSI. SEE SPEC. 507.5.1.4.1 MANDREL.
- 8. ALL MANHOLES MUST PASS A LEAKAGE TEST, AFTER ASSEMBLY AND BACKFILL. PORTIONS OF THIS PROJECT CONTAIN EXTREMELY DENSE SOIL. REFER TO THE GEOTECHNICAL REPORT BY ALLIANCE TECHNICAL GROUP DATED OCTOBER 5, 2018.
- 9.

THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT, MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS, THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER, CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWINGS ARE ON FILE AT THE OFFICES OF THE TOWN OF ADDISON. WM BART HINES, P.E. No. 49126 DATE 4/26/2021

SURVEY CONTROL CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL

NOTE: ALL COORDINATES ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE, NAD 83. ALL DISTANCES AND COORDINATES ARE EXPRESSED IN US SURVEY FEET. ALL DISTANCES AND COORDINATES ARE SURFACE AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SURFACE FACTOR OF 0.9998496003.

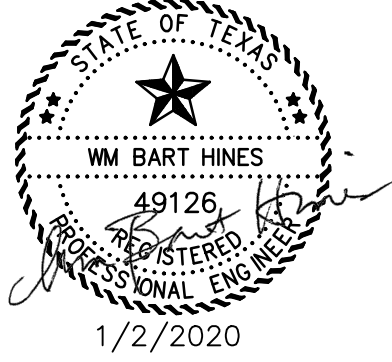
FLOODPLAIN NOTE: THE ENTIRE PROJECT IS LOCATED WITHIN ZONE 'X' (AREA OF MINIMAL FLOODING) PER FEMA FIRM MAP 48113C0180K, EFFECTIVE 07/07/2014.

THE LOCATION AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. IT IS CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY LOCATION, DEPTH AND DIMENSION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

WARNING! UNDERGROUND UTILITIES IN AREA OF CONSTRUCTION. CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATION IN THIS AREA.

|                                     |                |
|-------------------------------------|----------------|
| PUBLIC WORKS & ENGINEERING SERVICES | 972-450-2871   |
| TEXAS ONE CALL/DIG TESS             | 1-811-344-8377 |
| ONCOR                               | 1-888-313-6862 |
| AT&T                                | 1-800-331-0500 |
| SPECTRUM/CHARTER COMMUNICATIONS     | 1-888-438-2427 |
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**ADDISON, TEXAS  
PUBLIC WORKS &  
ENGINEERING SERVICES**

**SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
PROJECT NO. 513301**

**GENERAL NOTES  
& LEGEND**

**DANNENBAUM**  
ENGINEERING COMPANY - DALLAS, LLC  
T.B.P.E. FIRM REGISTRATION #8996  
3030 LBW Fwy #910, DALLAS, TX 75234 (972) 239-2002

|                            |                    |
|----------------------------|--------------------|
| DESIGNED BY: WBH           | DATE: 1/2/2020     |
| DRAWN BY: CMR              | PROJECT NO: 513301 |
| CHECKED BY: DEG            | DRAWING SCALE: NTS |
| FILE: 02-GENERAL NOTES.dwg | SHEET NO: 02       |

**TRAFFIC CONTROL PLAN NOTES**

1. MAINTENANCE OF TRAFFIC AND TRAFFIC CONTROL MEASURES IMPLEMENTED DURING CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE LATEST TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) AND THE LATEST TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) BC, WZ AND TCP STANDARD DRAWINGS OF THE TRAFFIC ENGINEERING STANDARD SHEETS. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE PROVIDED IN ACCORDANCE WITH ITEM 502, "BARRICADES, SIGNS, AND TRAFFIC HANDLING", OF THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, THE TMUTCD, AND ANY PROVISIONS CONTAINED IN THESE PLANS AND CONTRACT DOCUMENTS.
2. THE CONTRACTOR SHALL INSURE THAT ALL IMPLEMENTED TRAFFIC CONTROL MEASURES ARE MAINTAINED IN A CLEAN AND FUNCTIONAL CONDITION AT ALL TIMES, INCLUDING MAINTENANCE DUE TO ACTS OF VANDALISM OR ACCIDENT. THE CONTRACTOR SHALL HAVE ADEQUATE REPLACEMENT TRAFFIC CONTROL DEVICES AVAILABLE AT ALL TIMES TO REPLACE THOSE SO DAMAGED WITHIN 24 HOURS OF NOTIFICATION.
3. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN ONE LANE OPEN TO TRAFFIC AT ALL TIMES UNLESS APPROVED BY THE TOWN. ANY ADDITIONAL TRAFFIC CONTROL MEASURES REQUIRED TO MEET THESE PROVISIONS SHALL BE SUBSIDIARY TO ITEM 502, "BARRICADES, SIGNS, AND TRAFFIC HANDLING".
4. ACCESS FOR EMERGENCY VEHICLES, SCHOOL BUSES AND UNITED STATES POSTAL DELIVERY SHALL BE MAINTAINED AT ALL TIMES.
5. CONTRACTOR SHALL PLACE PROJECT LIMIT SIGNS PRIOR TO CONSTRUCTION AS REQUIRED BY THE TOWN.
6. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A SCHEDULE FOR THE PROPOSED CONSTRUCTION OPERATIONS. THIS SCHEDULE SHALL INCLUDE THE DATES AND DURATION OF EACH PARTIAL ROADWAY AND DRIVEWAY CLOSURE. CONSTRUCTION SHALL NOT BEGIN UNTIL THIS SCHEDULE IS APPROVED IN WRITING BY THE TOWN. ONCE CONSTRUCTION BEGINS, ANY CHANGES REQUESTED BY THE CONTRACTOR TO THIS SCHEDULE SHALL REQUIRE WRITTEN APPROVAL FROM THE TOWN.
7. NIGHTTIME WORK ON THIS PROJECT SHALL BE REQUIRED IN THE PARKING LOT AREAS OF PARCELS 1, 2, AND 3 (SEE SHEET 05). NIGHTTIME WORK FOR ALL OTHER AREAS WILL REQUIRE A NIGHTTIME WORK PLAN BE SUBMITTED IN WRITING BY THE CONTRACTOR, 48 HOURS IN ADVANCE, AND APPROVED IN WRITING BY THE TOWN FOR WORK FROM SUNSET TO 7:00A.M.
8. THE CONTRACTOR SHALL PROVIDE A LIST OF THE NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF HIS PRIMARY PERSONNEL CONTACTS AND AUTHORIZED REPRESENTATIVES WHO MAY BE CONTACTED AT ALL TIMES IN CASES OF EMERGENCY.
9. THE CONTRACTOR SHALL COVER OR OTHERWISE REMOVE FROM VIEW OF THE TRAVELING PUBLIC EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL SIGNS OR THE INTENT OF THE TRAFFIC CONTROL. THE COVERING OF EXISTING SIGNS SHALL BE WITH A MATERIAL AS APPROVED BY THE ENGINEER AND ATTACHED TO THE SIGN IN A MANNER WHICH WILL PRESENT A NEAT APPEARANCE AND NOT DAMAGE THE SIGN. ALL WORK AND MATERIALS REQUIRED FOR THE COVERING OF EXISTING SIGNS SHALL BE SUBSIDIARY TO ITEM 502, "BARRICADES, SIGNS, AND TRAFFIC HANDLING".
10. THE CONTRACTOR SHALL NOT PARK HIS EQUIPMENT WITHIN THE RIGHT-OF-WAY OVERNIGHT, WHERE IT IS DEEMED BY THE ENGINEER TO BE A SAFETY HAZARD.
11. VEHICLES BELONGING TO THE CONTRACTOR, SUBCONTRACTORS, OR THEIR EMPLOYEES SHALL NOT USE THE ADJACENT LOCAL ROADS FOR PARKING OR FOR STORING EQUIPMENT AND MATERIALS.
12. CONTRACTOR SHALL COORDINATE THE SEQUENCE OF WORK AND TRAFFIC CONTROL PLAN FOR THIS PROJECT WITH THE SEQUENCE OF WORK AND TRAFFIC CONTROL PLAN OF ANY ADJACENT PROJECTS, IF APPLICABLE, TO INSURE THE UNINTERRUPTED AND SAFE FLOW OF TRAFFIC.
13. THE CONTRACTOR SHALL FULLY COORDINATE HIS WORK WITH THE UTILITY AND PIPELINE COMPANIES IN THE PROJECT AREA.
14. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING TEMPORARY DRAINAGE THROUGHOUT THE PROJECT LIMITS, DURING ALL PHASES OF CONSTRUCTION, IN ORDER TO AVOID CREATING HAZARDOUS ROAD CONDITIONS AND FLOODING OF PROPERTIES ADJACENT TO THE PROJECT AREA.
15. REMOVE EROSION CONTROL MEASURES WHEN 70% OF THE ORIGINAL VEGETATION COVER IS ESTABLISHED, OR AS DIRECTED BY THE TOWN.
16. REMOVE TEMPORARY WORK ZONE SIGNS AND CHANNELIZING DEVICES WHEN PROJECT IS ACCEPTED BY THE TOWN.
17. THE CONTRACTOR SHALL PREPARE AND SUBMIT A SEQUENCE OF WORK AND TRAFFIC CONTROL PLAN TO THE ENGINEER FOR REVIEW. THE CONTRACTOR SHALL NOT IMPLEMENT ANY SEQUENCE OF WORK WITHOUT THE PRIOR WRITTEN APPROVAL OF THE TOWN. THE SEQUENCE OF WORK AND TRAFFIC CONTROL PLAN SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS. THE CONTRACTOR WILL NOT BE COMPENSATED FOR THE DESIGN OF THE SEQUENCE OF WORK OR TRAFFIC CONTROL PLAN WHETHER ACCEPTED OR REJECTED BY THE TOWN AND ANY SUCH EFFORT SHALL BE SUBSIDIARY TO ITEM 502, "BARRICADES, SIGNS, AND TRAFFIC HANDLING".
18. CONTRACTOR SEQUENCE OF WORK DESCRIPTION SERVES AS A GUIDE FOR THE SEQUENCING OF CONSTRUCTION AND THE SAFE HANDLING OF TRAFFIC DURING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THE SEQUENCE OF WORK DESCRIPTION DOES NOT ATTEMPT TO ADDRESS EVERY ASPECT OF CONSTRUCTION THAT IS REQUIRED OR COULD BE ENCOUNTERED DURING EACH PHASE OF CONSTRUCTION. THIS DOES NOT, HOWEVER, RELIEVE THE CONTRACTOR FROM HIS SOLE RESPONSIBILITY OF CONSTRUCTING THE PROPOSED IMPROVEMENTS AND PROVIDING FOR THE SAFE HANDLING OF TRAFFIC DURING CONSTRUCTION.
19. ANY CHANGES TO THE TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO THE TRAFFIC MANAGEMENT AND MAINTENANCE DIVISION ENGINEER IN WRITING WITH APPROPRIATE DRAWINGS AND BASIS FOR CHANGE TWO WEEKS PRIOR TO PROPOSED IMPLEMENTATION. THESE PLANS SHALL BE DRAWN TO AN ACCEPTABLE SCALE ON REPRODUCIBLE MYLARs AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THESE PLANS SHALL BE A PART OF THE CONTRACT DRAWINGS AND SHALL NOT BE IMPLEMENTED WITHOUT THE WRITTEN APPROVAL OF THE TOWN STAFF ENGINEER.
20. CONTRACTOR TO COORDINATE THIS TRAFFIC CONTROL WITH OTHER ONGOING PROJECTS.
21. CONTRACTOR SHALL PROVIDE ACCESS TO ALL BUSINESSES AND PRIVATE-RESIDENTIAL PROPERTIES ALONG THIS PROJECT AT ALL TIMES DURING CONSTRUCTION UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER.
22. ANY EXCAVATED PAVEMENT EXPOSED TO TRAFFIC DURING NON-WORKING HOURS SHALL BE COVERED WITH ANCHORED STEEL PLATES.
23. AT CORNERS WHERE CONSTRUCTION FENCE OR CONSTRUCTION TRAFFIC CONTROL DEVICES ARE INSTALLED, CONTRACTOR SHALL MAKE SURE THAT EXISTING TRAFFIC SIGNALS ARE NOT BLOCKED FROM MOTORISTS FIELD OF VIEW.
24. MATERIALS, EXCAVATED OR OTHERWISE, SHALL NOT BE STOCKPILED SO AS TO BLOCK DRAINAGE PATTERNS.
25. CONTRACTOR SHALL RESTORE ALL ITEMS NOT SPECIFICALLY INCLUDED IN STREET RECONSTRUCTION, WHICH ARE DISTURBED DURING INSTALLATION OF TEMPORARY TRAFFIC CONTROL, TO ORIGINAL OR BETTER CONDITION. IE. THE CONTRACTOR SHALL REPLACE ANY PAVEMENT MARKING, DRIVEWAYS, SIGNS ETC. THAT ARE REMOVED OR DAMAGED DURING CONSTRUCTION.

26. AN APPROVED SET OF TRAFFIC CONTROL PLANS AND SIDEWALK CLOSURE PERMIT SHALL BE AVAILABLE FOR INSPECTION ON JOB SITE AT ALL TIMES.
27. REQUEST FOR SIDEWALK, LANE OR COMPLETE STREET CLOSURES, SHALL BE DIRECTED TO PUBLIC WORKS AND TRANSPORTATION 48-HOURS IN ADVANCE OF SUCH CLOSURE. PERMISSION MAY BE OBTAINED BY CALLING OUR TRAFFIC CONSTRUCTION COORDINATOR. CLOSURE OF TRAFFIC LANES AND SIDEWALKS ALONG ANY PUBLIC ROADWAY SHALL BE SUBMITTED TO THE TOWN STAFF FOR APPROVAL.
28. CONTRACTOR SHALL INSTALL ORANGE PLASTIC CONSTRUCTION FENCING (3 FEET TALL MINIMUM) AROUND ALL OPEN EXCAVATION OR AS DIRECTED BY THE ENGINEER. SUCH FENCE SHALL NOT OBSTRUCT SIGHT LINES OF THE TRAVELING PUBLIC.
29. THESE SUGGESTED TRAFFIC CONTROL PLANS SERVE AS A GUIDE FOR THE SEQUENCING OF CONSTRUCTION TO MAINTAIN TRAFFIC FLOW DURING CONSTRUCTION OR THE PROPOSED IMPROVEMENTS. THESE SUGGESTED TRAFFIC CONTROL PLANS DO NOT ATTEMPT TO ADDRESS EVERY ASPECT OF THE CONSTRUCTION THAT IS REQUIRED OR COULD BE ENCOUNTERED DURING EACH PHASE OF CONSTRUCTION. THIS DOES NOT, HOWEVER, RELIEVE THE CONTRACTOR FROM HIS SOLE RESPONSIBILITY OF CONSTRUCTING THE PROPOSED IMPROVEMENTS AND PROVIDING FOR THE SAFE HANDLING OF TRAFFIC DURING CONSTRUCTION.
30. THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT MARKINGS IN DETOUR AREAS TO AVOID CONFLICTS WITH TEMPORARY PAVEMENT MARKINGS, AS DIRECTED BY ENGINEER. DETOURS OUTSIDE THE PROJECT LIMITS THAT ROUTE TRAFFIC AROUND A CLOSED ROADWAY SHALL UTILIZE EXISTING PAVEMENT MARKINGS.

**TRAFFIC GENERAL NOTES**

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" AND THE TOWN OF ADDISON'S ADDENDUM THERETO.
2. BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL PREPARE A CONSTRUCTION SEQUENCE AND CONSTRUCTION SCHEDULE. THE CONSTRUCTION SCHEDULE SHALL BE SUCH THAT THERE IS MINIMUM INTERFERENCE WITH TRAFFIC ALONG OR ADJACENT TO THE PROJECT.
3. CONSTRUCTION MAY NOT BE BEGUN EARLIER THAN 7:00 A.M. ON WEEKDAYS NOR CONTINUED AFTER DARK WITHOUT PERMISSION FROM THE TOWN. CONSTRUCTION ON SATURDAY MAY NOT BE BEGUN BEFORE 8:00 A.M. AND WORK ON SUNDAY IS PROHIBITED WITHOUT SPECIAL PERMISSION FROM THE TOWN.
4. UTILITIES SHOWN ON THE PLANS WERE TAKEN FROM FIELD SURVEYS AND INFORMATION PROVIDED BY THE UTILITY COMPANIES. THE COMPLETENESS AND THE ACCURACY OF THIS DATA IS NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES AND PROTECTING THEM FROM DAMAGE DURING CONSTRUCTION. CONTACT TEXAS ONE CALL SYSTEM 1-800-245-4545 AT LEAST 48 HOURS BEFORE EXCAVATING.
5. WORK MAY NOT BE BACKFILLED OR COVERED UNTIL IT HAS BEEN INSPECTED BY THE TOWN.
6. MATERIAL TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY AND PAID FOR BY THE CONTRACTOR.
7. ALL EXCAVATION ON THE PROJECT IS UNCLASSIFIED.
8. UTILITY COMPANIES AND CONTRACTORS SHALL OBTAIN A STREET CUT PERMIT BEFORE DISTURBING ANY PAVEMENT IN PUBLIC RIGHT-OF-WAY.
9. THE CONTRACTOR SHALL MAINTAIN ONE LANE OF TRAFFIC ALONG BELTWAY DRIVE AND BELTWOOD PARKWAY.
10. REMOVE, SALVAGE AND REPLACE ALL STREET AND TRAFFIC CONTROL SIGNS WHICH MAY BE DAMAGED BY THE CONSTRUCTION OF THE PROJECT.
11. ALL TRENCHING AND EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH OSHA STANDARDS.

**GRADING NOTES**

1. TOP SOIL SHALL NOT BE REMOVED FROM RESIDENTIAL LOTS OR USED AS SPOIL, BUT SHALL BE STRIPPED AND REDISTRIBUTED SO AS TO PROVIDE AT LEAST SIX (6) INCHES OF COVER ON THE LOTS, PARKWAYS AND MEDIANS. PERMANENT EROSION CONTROL MEASURES SHALL BE PROVIDED THROUGHOUT THE DEVELOPMENT PRIOR TO FINAL ACCEPTANCE OF THE IMPROVEMENTS.
2. TEMPORARY EROSION CONTROL SHALL BE USED TO MINIMIZE THE SPREAD OF SILT AND MUD FROM THE PROJECT ON TO EXISTING STREETS, ALLEYS, DRAINAGE WAYS AND PUBLIC AND PRIVATE PROPERTY. TEMPORARY EROSION CONTROLS MAY INCLUDE SILT FENCES, STRAW BALES, BERMS, DIKES, SWALES, STRIPS OF UNDISTURBED VEGETATION, CHECK DAMS AND OTHER METHODS AS REQUIRED BY THE TOWN ADMINISTRATOR OR HIS REPRESENTATIVE AND AS SPECIFIED IN THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS CONSTRUCTION (N.C.T.C.O.G) BMP MANUAL.
3. ALL STREET RIGHTS-OF-WAY, REGARDLESS OF SLOPE; ALL FINISHED GRADE SLOPES THAT ARE STEEPER THAN 6: 1; AND THE FLOW LINES OF ALL DRAINAGE DITCHES AND SWALES SHALL BE COMPLETELY COVERED WITH EROSION CONTROL MATTING AS SPECIFIED IN THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS CONSTRUCTION (N.C.T.C.O.G) BMP MANUAL.
4. GRASS SHALL BE ESTABLISHED ON THE SLOPES OF ALL DRAINAGE CHANNELS THAT ARE STEEPER THAN 6: 1. GRASS SHALL MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS OF THE TEXAS DEPARTMENT OF TRANSPORTATION.
5. ALL PERMEABLE SURFACES WITHIN THE DEVELOPMENT SHALL BE GRADED TO A SMOOTH AND UNIFORM APPEARANCE THAT CAN BE EASILY MOWED WITH A SMALL RESIDENTIAL RIDING LAWN MOWER.

**PAVING NOTES**

1. ALL EMBANKMENT SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
2. ALL STREETS AND ALLEYS SHALL BE PLACED ON LIME STABILIZED SUBGRADE WITH A LIME CONTENT OF NOT LESS THAN 6%.
3. THE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE STREET PAVING SHALL NOT BE LESS THAN 4,000 PSI AND SHALL BE AIR ENTRAINED. WATER MAY NOT BE APPLIED TO THE SURFACE OF CONCRETE PAVING TO IMPROVE WORKABILITY.
4. ALL CURB AND GUTTER SHALL BE INTEGRAL WITH THE PAVEMENT.
5. PARABOLIC CROWNS ARE REQUIRED ON ALL STREET PAVEMENT EXCEPT ON MAJOR THOROUGHFARES WHERE STRAIGHT SECTIONS ARE REQUIRED.
6. STREETS AND ALLEYS SHALL BE CONSTRUCTED WITH PROVISIONS FOR SIDEWALK RAMPS AT ALL INTERSECTIONS.
7. ALL CONCRETE PAVEMENT, SHALL BE CONSTRUCTED WITH 8" 4,000 PSI CONCRETE WITH #3 REBAR ON 18 INCH CENTERS IN BOTH DIRECTIONS.
8. ALTERNATE BID ITEM, OF CONCRETE PAVEMENT IN PRIVATE DRIVEWAYS, MAY BE CONSTRUCTED WITH 8" HIGH EARLY STRENGTH CONCRETE. FLY ASH MAY NOT BE USED IN CONCRETE MIX DESIGN WHERE HIGH EARLY STRENGTH IS DESIRED.

**DRAINAGE NOTES**

1. STORM SEWER PIPE SHALL BE REINFORCED CONCRETE, CLASS III UNLESS OTHERWISE NOTED.
2. ALL STRUCTURAL CONCRETE SHALL BE CLASS "C" (4,000 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS), AIR ENTRAINED.
3. THE CONTRACTOR SHALL INSTALL PLUGS IN STORM SEWER LINES OR OTHERWISE PREVENT MUD FROM ENTERING THE STORM SEWER SYSTEM DURING CONSTRUCTION.

**WARRANTY NOTES**

1. THE CONTRACTOR SHALL MAINTAIN THE REQUIRED PUBLIC IMPROVEMENTS FOR A PERIOD OF TWO (2) YEARS FOLLOWING ACCEPTANCE BY THE TOWN AND SHALL PROVIDE A MAINTENANCE BOND IN THE AMOUNT OF 100% OF THE COSTS OF THE IMPROVEMENTS.
2. THIRTY DAYS PRIOR TO THE EXPIRATION OF THE WARRANTY, THE CONTRACTOR SHALL NOTIFY THE TOWN OF THE APPROACHING END OF THE TWO-YEAR WARRANTY. IN THE EVENT THE CONTRACTOR FAILS TO NOTIFY THE TOWN OF THE END OF WARRANTY, THE WARRANTY AND BOND SHALL AUTOMATICALLY BE EXTENDED TO END THIRTY DAYS AFTER NOTICE OF END-OF-WARRANTY IS FILED WITH THE TOWN.

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SURVEY CONTROL CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL

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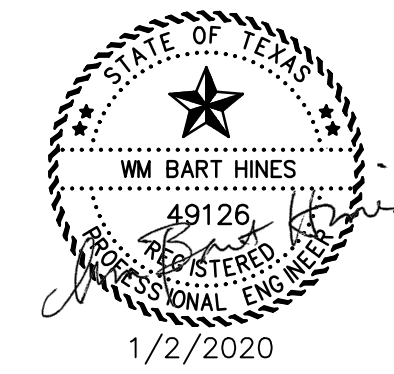
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| ONCOR                               | 1-888-313-6862 |
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**ADDISON, TEXAS  
PUBLIC WORKS &  
ENGINEERING SERVICES**

**SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
PROJECT NO. 513301**

**TRAFFIC NOTES**

**DANNENBAUM**

ENGINEERING COMPANY - DALLAS, LLC  
T.B.P.E. FIRM REGISTRATION #8996  
3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

|                            |                                |
|----------------------------|--------------------------------|
| DESIGNED BY: WBH           | DATE: 1/2/2020                 |
| DRAWN BY: CMR              | PROJECT NO: 513301             |
| CHECKED BY: DEG            | DRAWING SCALE: 1"=20'H; 1"=4'V |
| FILE: 02-GENERAL NOTES.dwg | SHEET NO: 03                   |

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 PLOTTED: Apr 26, 2021 - 4:28pm  
 crystalreed

**Town of Addison**  
**Wastewater Basin 1 Sewer Outfall Re-route and Water Improvements**

Beltway Drive From Midway Rd. To Parking Lot- Beltwood Parkway (2550LF)  
 Bid Number 19-59

Pay Items and Bid Quantities

| Pay Item No. | Item Description   | Unit | Sanitary Sheet 07 | Sanitary Sheet 08 | Sanitary Sheet 09 | Sanitary Sheet 10 | Sanitary Sheet 11 | Sanitary Sheet 12 | Sanitary Sheet 13 | Sanitary Sheet 14 | Water - Sheet 19 | Water - Sheet 20 | Water - Sheet 21 | Pvmt - Sheet 25 | Pvmt - Sheet 26 | Pvmt - Sheet 27 | Pvmt - Sheet 28 | Calc. Total | Bid Total |
|--------------|--|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|------------------|-----------------|-----------------|-----------------|-----------------|-------------|-----------|
| 1            | Mobilization & Demobilization / Clean up   | LS   |                   |                   |                   |                   |                   |                   |                   |                   |                  |                  |                  |                 |                 |                 |                 |             | 1         |
| 2            | Traffic Control Plan   | LS   |                   |                   |                   |                   |                   |                   |                   |                   |                  |                  |                  |                 |                 |                 |                 |             | 1         |
| 3            | Project Signs  | EA   |                   |                   |                   |                   |                   |                   |                   |                   |                  |                  |                  |                 |                 |                 |                 |             | 2         |
| 4            | Barricade, Signs, Traffic Control and Pavement Markings  | LS   |                   |                   |                   |                   |                   |                   |                   |                   |                  |                  |                  |                 |                 |                 |                 |             | 1         |
| 5            | Site Protection and Site Preparation   | LS   |                   |                   |                   |                   |                   |                   |                   |                   |                  |                  |                  |                 |                 |                 |                 |             | 1         |
| 6            | Construction Staking   | LS   |                   |                   |                   |                   |                   |                   |                   |                   |                  |                  |                  |                 |                 |                 |                 |             | 1         |
| 7            | Stabilized Construction Entrance   | EA   |                   |                   |                   |                   |                   |                   |                   |                   |                  |                  |                  |                 |                 |                 |                 |             | 2         |
| 8            | Temporary Erosion, Sedimentation Control   | LS   |                   |                   |                   |                   |                   |                   |                   |                   |                  |                  |                  |                 |                 |                 |                 |             | 1         |
| 9            | Inlet Protection   | EA   |                   |                   |                   |                   |                   |                   |                   |                   |                  |                  |                  | 3               | 2               | 0               | 4               | 9           | 9         |
| 10           | Trench Safety Plan for Wastewater Pipelines  | LF   | 310               | 300               | 350               | 400               | 425               | 425               | 338               | 82                |                  |                  |                  |                 |                 |                 |                 | 2630        | 2630      |
| 11           | 8" PVC SS Pipe (SDR 35) by Open Cut- Day Time Const.   | LF   |                   |                   |                   |                   |                   |                   |                   | 82                |                  |                  |                  |                 |                 |                 |                 | 82          | 82        |
| 12           | 15" PVC SS Pipe (SDR 26) by Open Cut- Daytime Const.   | LF   | 310               | 300               | 350               | 400               | 344               |                   |                   |                   |                  |                  |                  |                 |                 |                 |                 | 1704        | 1704      |
| 13           | 15" PVC SS Pipe (SDR 26) by Open Cut- Nighttime const.   | LF   |                   |                   |                   |                   | 81                | 425               | 338               |                   |                  |                  |                  |                 |                 |                 |                 | 844         | 844       |
| 14           | Jumper Pipe on Beltway   | LS   |                   |                   | 1                 |                   |                   |                   |                   |                   |                  |                  |                  |                 |                 |                 |                 | 1           | 1         |
| 15           | New Stand. 5' Dia SSMH with Epoxy Lining   | EA   | 1                 | 1                 | 3                 | 1                 | 2                 | 1                 | 4                 | 1                 |                  |                  |                  |                 |                 |                 |                 | 14          | 14        |
| 16           | Rehabilitate Existing SSMH   | EA   |                   |                   |                   |                   |                   |                   | 1                 |                   |                  |                  |                  |                 |                 |                 |                 | 1           | 1         |
| 17           | Extra Depth SSMH with Epoxy Lining   | VF   | 9.3               | 11.4              | 39.6              | 14.8              | 21.8              | 5.4               | 22.1              | 2.6               |                  |                  |                  |                 |                 |                 |                 | 127         | 128       |
| 18           | Temp. Bypass Pump & FM   | LS   |                   |                   |                   |                   |                   |                   | 1                 |                   |                  |                  |                  |                 |                 |                 |                 | 1           | 1         |
| 19           | Trench Safety Plan for Water Pipelines   | LF   |                   |                   |                   |                   |                   |                   |                   |                   | 375              | 325              | 198              |                 |                 |                 |                 | 898         |           |
| 20           | Remove and Replace existing WL Pipeline with 8" PVC (DR 18) by Open Cut - Day Time Const.                              | LF   |                   |                   |                   |                   |                   |                   |                   |                   | 331              |                  |                  |                 |                 |                 |                 | 331         | 331       |
| 21           | 8" PVC WL Pipe (DR 18) by Open Cut- Nighttime Const.   | LF   |                   |                   |                   |                   |                   |                   |                   |                   | 94               | 325              | 148              |                 |                 |                 |                 | 567         |           |
| 22           | 12" Dia Steel Encasement Pipe by Open Cut  | LF   |                   |                   |                   |                   |                   |                   |                   |                   | 43               |                  |                  |                 |                 |                 |                 | 43          | 43        |
| 23           | 8" Resilient Gate Valve Assembly   | EA   |                   |                   |                   |                   |                   |                   |                   |                   | 1                | 1                | 3                |                 |                 |                 |                 | 5           | 5         |
| 24           | Cut & Plug exist. Water Line   | LS   |                   |                   |                   |                   |                   |                   |                   |                   | 2                |                  | 2                |                 |                 |                 |                 | 4           | 4         |
| 25           | Various Water Fittings, Tees & Bends   | Ton  |                   |                   |                   |                   |                   |                   |                   |                   | 0.2              | 0.2              | 0.2              |                 |                 |                 |                 | 1           | 1         |
| 26           | New Water Service Line Assembly  | EA   |                   |                   |                   |                   |                   |                   |                   |                   | 1                |                  |                  |                 |                 |                 |                 | 1           | 1         |
| 27           | Cement Stabilized backfill embedment, as directed  | CY   | 0.5               | 0.5               | 0.5               | 0.5               | 0.5               | 0.5               | 0.5               | 0.5               | 0.5              | 0.5              | 0.5              |                 |                 |                 |                 | 6           | 6         |
| 28           | Perm. Concrete Repair of Pvmt. At 8" thickness   | SY   |                   |                   |                   |                   |                   |                   |                   |                   |                  |                  |                  | 582             | 1303            | 1087            | 791             | 3763        | 3763      |
| 29           | Temp Asphalt Paving & Flex Base  | CY   |                   |                   |                   |                   |                   |                   |                   |                   |                  |                  |                  |                 |                 |                 |                 | 100         | 100       |
| 30           | Curb & Gutter Replace & Repair, as directed  | LF   |                   |                   |                   |                   |                   |                   |                   |                   |                  |                  |                  |                 |                 | 10              | 60              | 70          | 70        |
| 31           | Sidewalk Replace or Repair, as directed  | LF   |                   |                   |                   |                   |                   |                   |                   |                   |                  |                  |                  |                 |                 | 11              | 4               | 15          | 15        |
| 32           | High Early Strength (HES) Concrete misc., as directed  | CY   | 0.5               | 0.5               | 0.5               | 0.5               | 0.5               | 0.5               | 0.5               | 0.5               | 0.5              | 0.5              | 0.5              | 1               | 1               | 1               | 1               | 10          | 10        |
| 33           | Sod Replacement, as directed   | SY   |                   |                   |                   |                   |                   |                   |                   |                   |                  |                  |                  |                 |                 |                 | 13              | 13          | 13        |
| 34           | Permanant Pavement Markings, as directed   | LF   |                   |                   |                   |                   |                   |                   |                   |                   |                  |                  |                  | 317             | 650             | 464             | 113             | 1544        | 1544      |
| 35           | Remove and Replace Fence   | LF   |                   |                   |                   |                   |                   |                   |                   |                   |                  |                  |                  |                 |                 |                 | 20              | 20          | 20        |
| 36           | Misc. Repairs/ Contingency   | LS   |                   |                   |                   |                   |                   |                   |                   |                   |                  |                  |                  |                 |                 |                 |                 | 1           | 1         |
| Alt. 1       | Extra Cost for using High Early Strength Concrete HES for all Permanant Concrete Repair of Pavement as per Bid Item 28 | SY   |                   |                   |                   |                   |                   |                   |                   |                   |                  |                  |                  | 582             | 1303            | 1087            | 791             | 3763        | 3763      |

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SURVEY CONTROL  
 CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL  
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WARNING! UNDERGROUND UTILITIES IN AREA OF CONSTRUCTION. CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATION IN THIS AREA.

PUBLIC WORKS & ENGINEERING SERVICES 972-450-2871  
 TEXAS ONE CALL/DIG TESS 1-811-344-8377  
 ONCOR 1-888-313-6862  
 AT&T 1-800-331-0500  
 SPECTRUM/CHARTER COMMUNICATIONS 1-888-438-2427  
 ATMOS ENERGY 1-888-286-6700

| REV. NO. | DESCRIPTION | CHK. BY | DATE |
|----------|-------------|---------|------|
|          |             |         |      |



**ADDISON, TEXAS  
 PUBLIC WORKS &  
 ENGINEERING SERVICES**

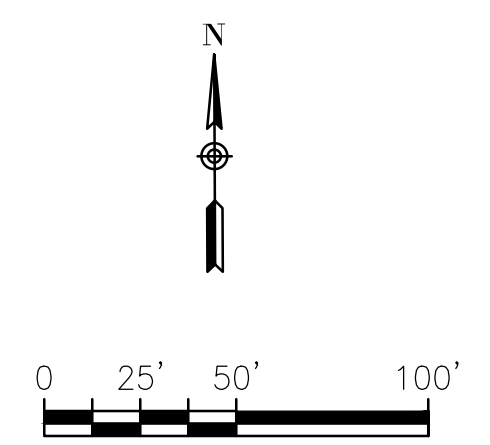
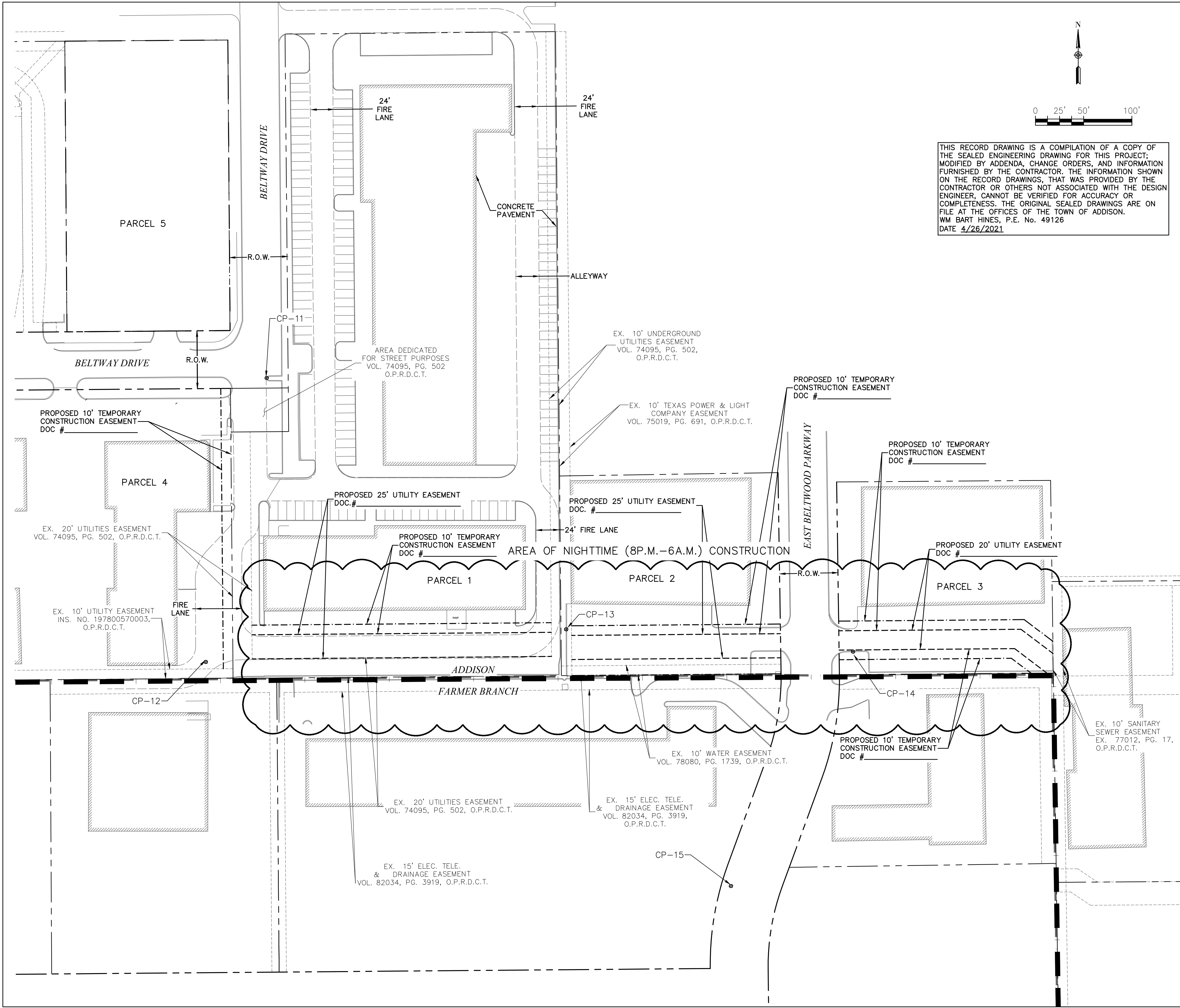
SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
 PROJECT NO. 513301

PAY ITEMS AND BID QUANTITIES



|                            |                    |
|----------------------------|--------------------|
| DESIGNED BY: WBH           | DATE: 1/2/2020     |
| DRAWN BY: CMR              | PROJECT NO: 513301 |
| CHECKED BY: DEG            | DRAWING SCALE: NTS |
| FILE: 02-GENERAL NOTES.dwg | SHEET NO: 04       |

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 PLOTTED: Apr 26, 2021 - 4:29pm  
 crystalread



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LEGEND

|           |                                 |
|-----------|---------------------------------|
| ---       | R.O.W LINE/PROPERTY LINE        |
| - - - - - | EXISTING EASEMENT               |
| - . - . - | PROPOSED EASEMENT               |
| - - - - - | TEMPORARY CONSTRUCTION EASEMENT |
| — — — —   | TOWN LIMITS                     |

NOTE:  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ANY TEMPORARY RIGHT OF WAY/LAND RIGHTS, FOR THE DURATION OF THE CONTRACT, FOR THE PURPOSE OF A STAGING AREA: STORING OF EQUIPMENT AND MATERIAL, EMPLOYEE PARKING, ETC. THE TOWN OF ADDISON IS NOT SUPPLYING A STAGING AREA FOR THIS PROJECT.

SURVEY CONTROL  
 CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL

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|                                     |                |
|-------------------------------------|----------------|
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| TEXAS ONE CALL/DIG TESS             | 1-811-344-8377 |
| ONCOR                               | 1-888-313-6862 |
| AT&T                                | 1-800-331-0500 |
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| REV. NO. | DESCRIPTION | CHK. BY | DATE |
|----------|-------------|---------|------|
|          |             |         |      |



ADDISON, TEXAS  
 PUBLIC WORKS &  
 ENGINEERING SERVICES

SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
 PROJECT NO. 513301

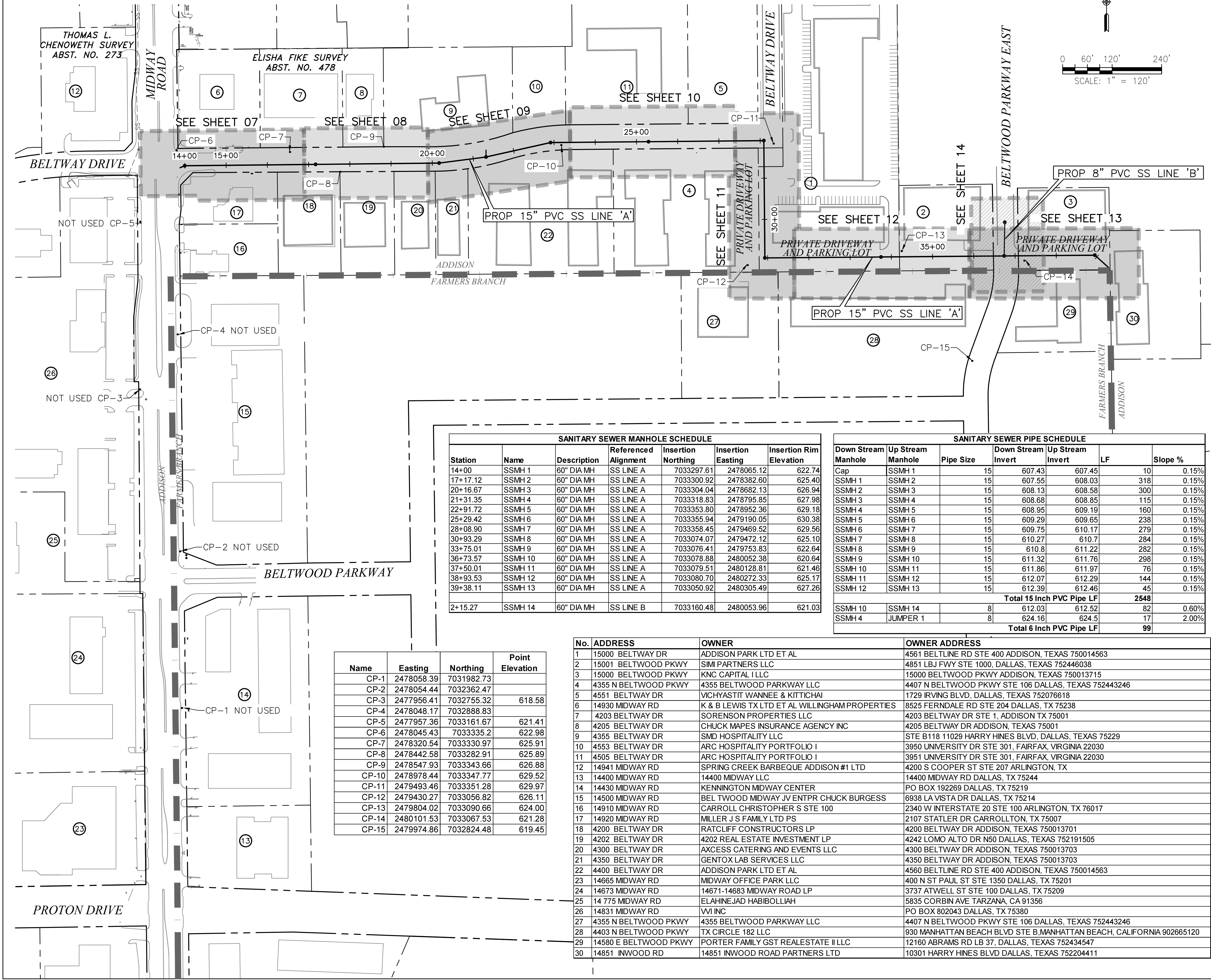
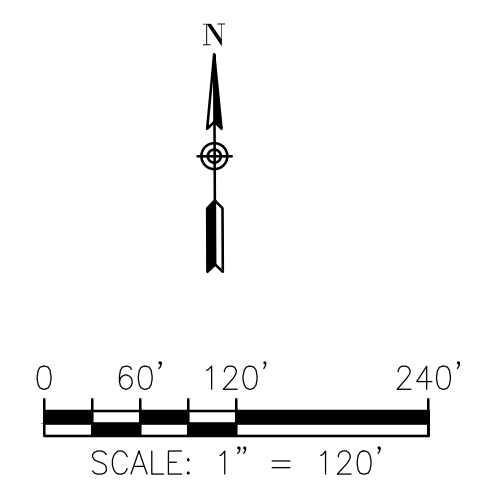
PROPOSED EASEMENTS

**DANNENBAUM**  
 ENGINEERING COMPANY - DALLAS, LLC  
 T.B.P.E. FIRM REGISTRATION #8996  
 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

|                        |                       |
|------------------------|-----------------------|
| DESIGNED BY: WBH       | DATE: 1/2/2020        |
| DRAWN BY: CMR          | PROJECT NO: 513301    |
| CHECKED BY: DEG        | DRAWING SCALE: 1"=50' |
| FILE: 04 EASEMENTS.dwg | SHEET NO: 05          |

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**LEGEND**  
 - - - - - R.O.W LINE/PROPERTY LINE  
 - - - - - SHEET LAYOUT  
 - - - - - TOWN LIMITS  
 (X) PROPERTY IDENTIFICATION NUMBER



| SANITARY SEWER MANHOLE SCHEDULE |         |             |                      |                    |                   |                         |
|---------------------------------|---------|-------------|----------------------|--------------------|-------------------|-------------------------|
| Station                         | Name    | Description | Referenced Alignment | Insertion Northing | Insertion Easting | Insertion Rim Elevation |
| 14+00                           | SSMH 1  | 60" DIA MH  | SS LINE A            | 7033297.61         | 2478065.12        | 622.74                  |
| 17+17.12                        | SSMH 2  | 60" DIA MH  | SS LINE A            | 7033300.92         | 2478382.80        | 625.40                  |
| 20+16.67                        | SSMH 3  | 60" DIA MH  | SS LINE A            | 7033304.04         | 2478682.13        | 626.94                  |
| 21+31.35                        | SSMH 4  | 60" DIA MH  | SS LINE A            | 7033318.83         | 2478795.85        | 627.98                  |
| 22+91.72                        | SSMH 5  | 60" DIA MH  | SS LINE A            | 7033353.80         | 2478952.36        | 629.18                  |
| 25+29.42                        | SSMH 6  | 60" DIA MH  | SS LINE A            | 7033355.94         | 2479190.05        | 630.38                  |
| 28+08.90                        | SSMH 7  | 60" DIA MH  | SS LINE A            | 7033358.45         | 2479469.52        | 629.56                  |
| 30+93.29                        | SSMH 8  | 60" DIA MH  | SS LINE A            | 7033074.07         | 2479472.12        | 625.10                  |
| 33+75.01                        | SSMH 9  | 60" DIA MH  | SS LINE A            | 7033076.41         | 2479753.83        | 622.64                  |
| 36+73.57                        | SSMH 10 | 60" DIA MH  | SS LINE A            | 7033078.88         | 2480052.38        | 620.64                  |
| 37+50.01                        | SSMH 11 | 60" DIA MH  | SS LINE A            | 7033079.51         | 2480128.81        | 621.46                  |
| 38+93.53                        | SSMH 12 | 60" DIA MH  | SS LINE A            | 7033080.70         | 2480272.33        | 625.17                  |
| 39+38.11                        | SSMH 13 | 60" DIA MH  | SS LINE A            | 7033050.92         | 2480305.49        | 627.26                  |
| 2+15.27                         | SSMH 14 | 60" DIA MH  | SS LINE B            | 7033160.48         | 2480053.96        | 621.03                  |

| SANITARY SEWER PIPE SCHEDULE     |                   |           |                    |                  |             |         |
|----------------------------------|-------------------|-----------|--------------------|------------------|-------------|---------|
| Down Stream Manhole              | Up Stream Manhole | Pipe Size | Down Stream Invert | Up Stream Invert | LF          | Slope % |
| Cap                              | SSMH 1            | 15        | 607.43             | 607.45           | 10          | 0.15%   |
| SSMH 1                           | SSMH 2            | 15        | 607.55             | 608.03           | 318         | 0.15%   |
| SSMH 2                           | SSMH 3            | 15        | 608.13             | 608.58           | 300         | 0.15%   |
| SSMH 3                           | SSMH 4            | 15        | 608.68             | 608.85           | 115         | 0.15%   |
| SSMH 4                           | SSMH 5            | 15        | 608.95             | 609.19           | 160         | 0.15%   |
| SSMH 5                           | SSMH 6            | 15        | 609.29             | 609.65           | 238         | 0.15%   |
| SSMH 6                           | SSMH 7            | 15        | 609.75             | 610.17           | 279         | 0.15%   |
| SSMH 7                           | SSMH 8            | 15        | 610.27             | 610.7            | 284         | 0.15%   |
| SSMH 8                           | SSMH 9            | 15        | 610.8              | 611.22           | 282         | 0.15%   |
| SSMH 9                           | SSMH 10           | 15        | 611.32             | 611.76           | 298         | 0.15%   |
| SSMH 10                          | SSMH 11           | 15        | 611.86             | 611.97           | 76          | 0.15%   |
| SSMH 11                          | SSMH 12           | 15        | 612.07             | 612.29           | 144         | 0.15%   |
| SSMH 12                          | SSMH 13           | 15        | 612.39             | 612.46           | 45          | 0.15%   |
| <b>Total 15 Inch PVC Pipe LF</b> |                   |           |                    |                  | <b>2548</b> |         |
| SSMH 10                          | SSMH 14           | 8         | 612.03             | 612.53           | 82          | 0.60%   |
| SSMH 4                           | JUMPER 1          | 8         | 624.16             | 624.5            | 17          | 2.00%   |
| <b>Total 6 Inch PVC Pipe LF</b>  |                   |           |                    |                  | <b>99</b>   |         |

| Name  | Easting    | Northing   | Point Elevation |
|-------|------------|------------|-----------------|
| CP-1  | 2478058.39 | 7031982.73 |                 |
| CP-2  | 2478054.44 | 7032362.47 |                 |
| CP-3  | 2477956.41 | 7032755.32 | 618.58          |
| CP-4  | 2478048.17 | 7032888.83 |                 |
| CP-5  | 2477957.36 | 7033161.67 | 621.41          |
| CP-6  | 2478045.43 | 7033335.2  | 622.98          |
| CP-7  | 2478320.54 | 7033330.97 | 625.91          |
| CP-8  | 2478442.58 | 7033282.91 | 625.89          |
| CP-9  | 2478547.93 | 7033343.66 | 626.88          |
| CP-10 | 2478978.44 | 7033347.77 | 629.52          |
| CP-11 | 2479493.46 | 7033351.28 | 629.97          |
| CP-12 | 2479430.27 | 7033056.82 | 626.11          |
| CP-13 | 2479804.02 | 7033090.66 | 624.00          |
| CP-14 | 2480101.53 | 7033067.53 | 621.28          |
| CP-15 | 2479974.86 | 7032824.48 | 619.45          |

| No. | ADDRESS               | OWNER  | OWNER ADDRESS   |
|-----|-----------------------|--|---|
| 1   | 15000 BELTWAY DR      | ADDISON PARK LTD ET AL                         | 4561 BELTLINE RD STE 400 ADDISON, TEXAS 750014563                     |
| 2   | 15001 BELTWOOD PKWY   | SIMI PARTNERS LLC                              | 4851 LBJ FWY STE 1000, DALLAS, TEXAS 752446038                        |
| 3   | 15000 BELTWOOD PKWY   | KNC CAPITAL I LLC                              | 15000 BELTWOOD PKWY ADDISON, TEXAS 750013715                          |
| 4   | 4355 N BELTWOOD PKWY  | 4355 BELTWOOD PARKWAY LLC                      | 4407 N BELTWOOD PKWY STE 106 DALLAS, TEXAS 752443246                  |
| 5   | 4551 BELTWAY DR       | VICHYASTIT WANNIE & KITTICHAH                  | 1729 IRVING BLVD, DALLAS, TEXAS 752076618                             |
| 6   | 14930 MIDWAY RD       | K & B LEWIS TX LTD ET AL WILLINGHAM PROPERTIES | 8525 FERNDAL RD STE 204 DALLAS, TX 75238                              |
| 7   | 4203 BELTWAY DR       | SORENSEN PROPERTIES LLC                        | 4203 BELTWAY DR STE 1, ADDISON TX 75001                               |
| 8   | 4205 BELTWAY DR       | CHUCK MAPES INSURANCE AGENCY INC               | 4205 BELTWAY DR ADDISON, TEXAS 75001                                  |
| 9   | 4355 BELTWAY DR       | SMD HOSPITALITY LLC                            | STE B118 11029 HARRY HINES BLVD, DALLAS, TEXAS 75229                  |
| 10  | 4553 BELTWAY DR       | ARC HOSPITALITY PORTFOLIO I                    | 3950 UNIVERSITY DR STE 301, FAIRFAX, VIRGINIA 22030                   |
| 11  | 4505 BELTWAY DR       | ARC HOSPITALITY PORTFOLIO I                    | 3951 UNIVERSITY DR STE 301, FAIRFAX, VIRGINIA 22030                   |
| 12  | 14941 MIDWAY RD       | SPRING CREEK BARBEQUE ADDISON #1 LTD           | 4200 S COOPER ST STE 207 ARLINGTON, TX                                |
| 13  | 14400 MIDWAY RD       | 14400 MIDWAY LLC                               | 14400 MIDWAY RD DALLAS, TX 75244                                      |
| 14  | 14430 MIDWAY RD       | KENNINGTON MIDWAY CENTER                       | PO BOX 192269 DALLAS, TX 75219  |
| 15  | 14500 MIDWAY RD       | BEL TWOOD MIDWAY JV ENTPR CHUCK BURGESS        | 6938 LA VISTA DR DALLAS, TX 75214                                     |
| 16  | 14910 MIDWAY RD       | CARROLL CHRISTOPHER S STE 100                  | 2340 W INTERSTATE 20 STE 100 ARLINGTON, TX 76017                      |
| 17  | 14920 MIDWAY RD       | MILLER J S FAMILY LTD PS                       | 2107 STATLER DR CARROLLTON, TX 75007                                  |
| 18  | 4200 BELTWAY DR       | RATCLIFF CONSTRUCTORS LP                       | 4200 BELTWAY DR ADDISON, TEXAS 750013701                              |
| 19  | 4202 BELTWAY DR       | 4202 REAL ESTATE INVESTMENT LP                 | 4242 LOMO ALTO DR N50 DALLAS, TEXAS 752191505                         |
| 20  | 4300 BELTWAY DR       | ACCESS CATERING AND EVENTS LLC                 | 4300 BELTWAY DR ADDISON, TEXAS 750013703                              |
| 21  | 4350 BELTWAY DR       | GENTOX LAB SERVICES LLC                        | 4350 BELTWAY DR ADDISON, TEXAS 750013703                              |
| 22  | 4400 BELTWAY DR       | ADDISON PARK LTD ET AL                         | 4560 BELTLINE RD STE 400 ADDISON, TEXAS 750014563                     |
| 23  | 14665 MIDWAY RD       | MIDWAY OFFICE PARK LLC                         | 400 N ST PAUL ST STE 1350 DALLAS, TX 75201                            |
| 24  | 14673 MIDWAY RD       | 14671-14683 MIDWAY ROAD LP                     | 3737 ATWELL ST STE 100 DALLAS, TX 75209                               |
| 25  | 14 775 MIDWAY RD      | ELAHINEJAD HABIBOLLAH                          | 5835 CORBIN AVE TARZANA, CA 91356                                     |
| 26  | 14831 MIDWAY RD       | VI INC   | PO BOX 802043 DALLAS, TX 75380  |
| 27  | 4355 N BELTWOOD PKWY  | 4355 BELTWOOD PARKWAY LLC                      | 4407 N BELTWOOD PKWY STE 106 DALLAS, TEXAS 752443246                  |
| 28  | 4403 N BELTWOOD PKWY  | TX CIRCLE 182 LLC                              | 930 MANHATTAN BEACH BLVD STE B, MANHATTAN BEACH, CALIFORNIA 902665120 |
| 29  | 14580 E BELTWOOD PKWY | PORTER FAMILY GST REALESTATE II LLC            | 12160 ABRAMS RD LB 37, DALLAS, TEXAS 752434547                        |
| 30  | 14851 INWOOD RD       | 14851 INWOOD ROAD PARTNERS LTD                 | 10301 HARRY HINES BLVD DALLAS, TEXAS 752204411                        |

**SURVEY CONTROL**  
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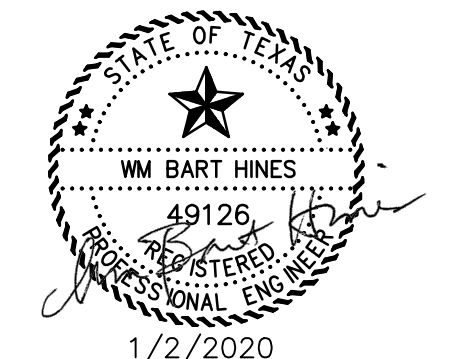
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**PUBLIC WORKS & ENGINEERING SERVICES** 972-450-2871  
 TEXAS ONE CALL/DIG TESS 1-811-344-8377  
 ONCOR 1-888-313-6862  
 AT&T 1-800-331-0500  
 SPECTRUM/CHARTER COMMUNICATIONS 1-888-438-2427  
 ATMOS ENERGY 1-888-286-6700

| REV. NO. | DESCRIPTION | CHK. BY | DATE |
|----------|-------------|---------|------|
|          |             |         |      |



**ADDISON, TEXAS  
 PUBLIC WORKS &  
 ENGINEERING SERVICES**

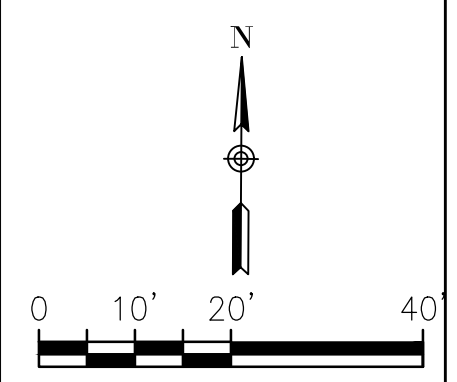
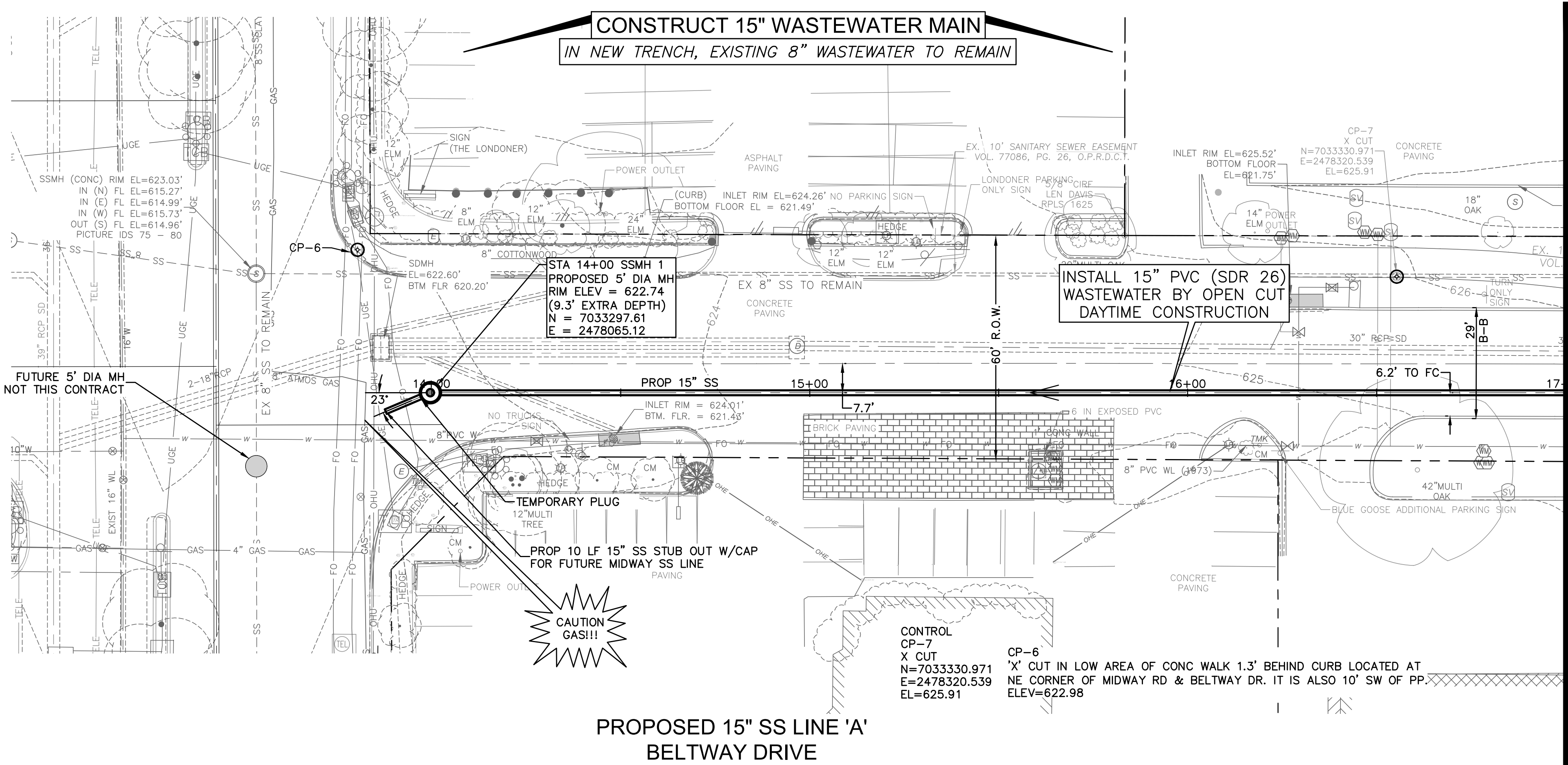
**SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
 PROJECT NO. 513301**

**SANITARY SEWER  
 SHEET LAYOUT**

**DANNENBAUM**  
 ENGINEERING COMPANY - DALLAS, LLC  
 T.B.P.E. FIRM REGISTRATION #8996  
 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

|                       |                        |
|-----------------------|------------------------|
| DESIGNED BY: WMB      | DATE: 1/2/2020         |
| DRAWN BY: CMR         | PROJECT NO: 513301     |
| CHECKED BY: DEG       | DRAWING SCALE: 1"=120' |
| FILE: SSWR_LAYOUT.dwg | SHEET NO: 06           |

G:\1220\5133-01 Addison Basin 1 Final Design\CAD\Sheets\...\_Exist\_Base.dwg  
 PLOTTED: Apr 26, 2021 - 4:31pm  
 crystalread



THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT; MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS, THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER, CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWINGS ARE ON FILE AT THE OFFICES OF THE TOWN OF ADDISON. WM BART HINES, P.E. No. 49126 DATE 4/26/2021

**SURVEY CONTROL**  
CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL

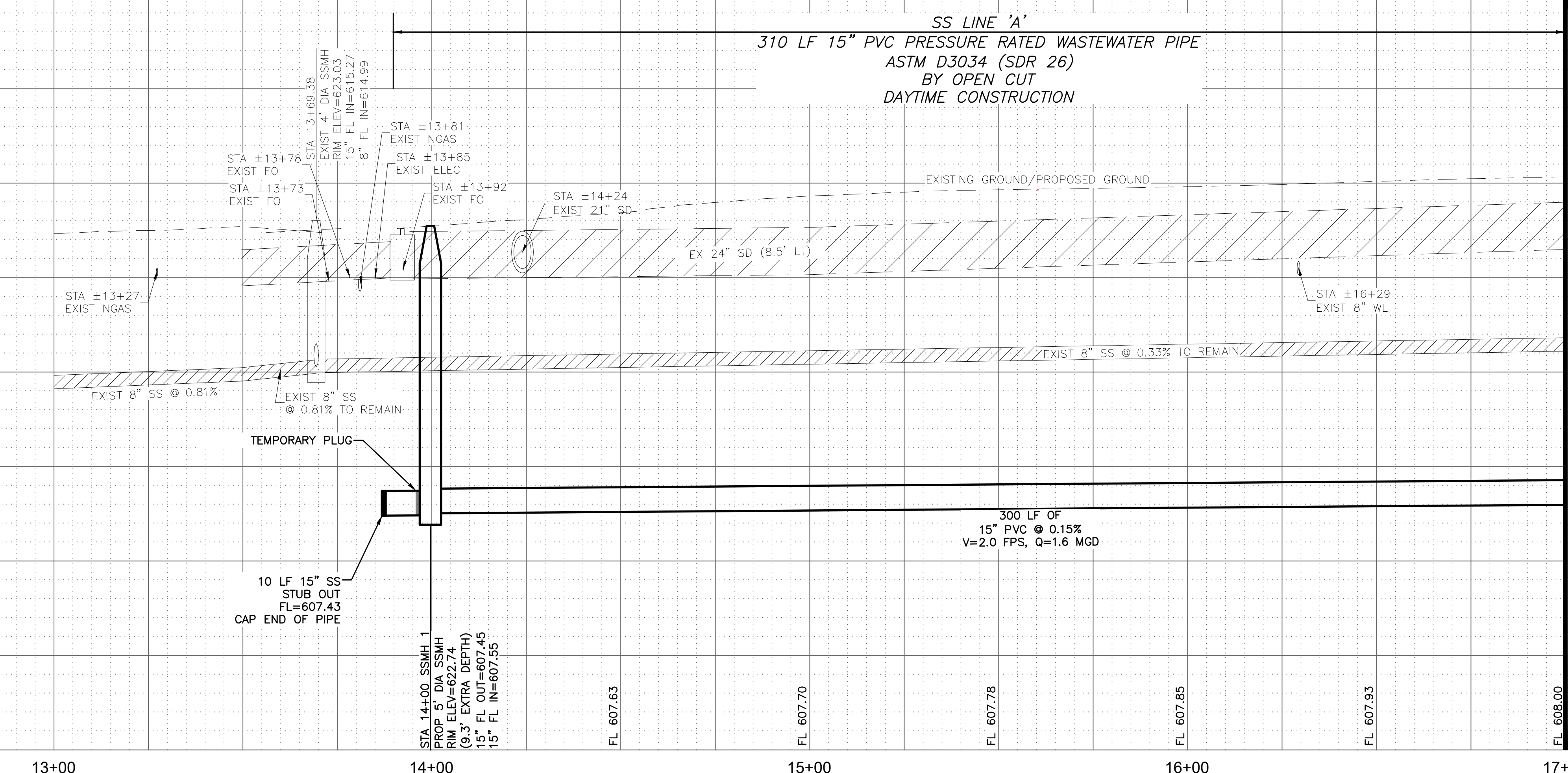
**NOTE:** ALL COORDINATES ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE, NAD 83. ALL DISTANCES AND COORDINATES ARE EXPRESSED IN US SURVEY FEET. ALL DISTANCES AND COORDINATES ARE SURFACE AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SURFACE FACTOR OF 0.9998496003.

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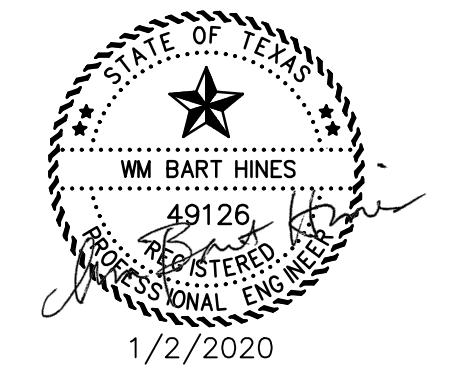
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|                                     |                |
|-------------------------------------|----------------|
| PUBLIC WORKS & ENGINEERING SERVICES | 972-450-2871   |
| TEXAS ONE CALL/DIG TESS             | 1-811-344-8377 |
| ONCOR                               | 1-888-313-6862 |
| AT&T                                | 1-800-331-0500 |
| SPECTRUM/CHARTER COMMUNICATIONS     | 1-888-438-2427 |
| ATMOS ENERGY                        | 1-888-286-6700 |



MATCHLINE STA 17+00  
SEE SHEET 08

|          |             |         |      |
|----------|-------------|---------|------|
| REV. NO. | DESCRIPTION | CHK. BY | DATE |
|          |             |         |      |



ADDISON, TEXAS  
PUBLIC WORKS &  
ENGINEERING SERVICES

SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
PROJECT NO. 513301

PROPOSED 15" SS  
LINE 'A' PLAN & PROFILE  
BEGIN-STA 17+00

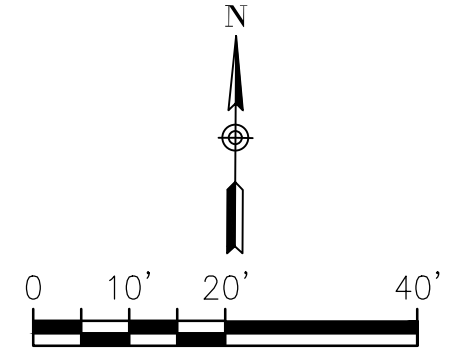
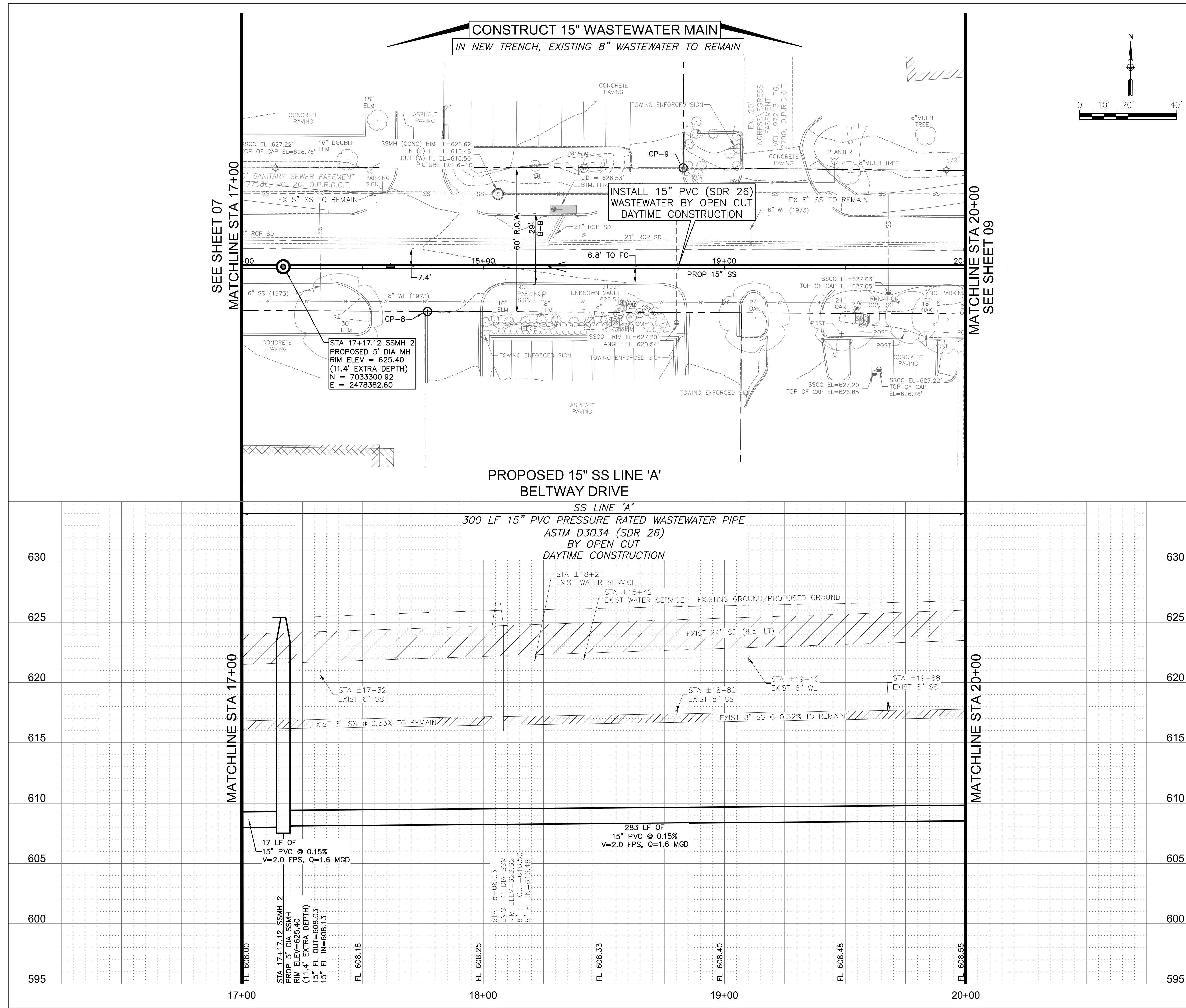
**DANNENBAUM**  
ENGINEERING COMPANY - DALLAS, LLC  
T.B.P.E. FIRM REGISTRATION #8996  
3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

|                  |                                |
|------------------|--------------------------------|
| DESIGNED BY: WBH | DATE: 4/26/2021                |
| DRAWN BY: CMR    | PROJECT NO: 513301             |
| CHECKED BY: DEG  | DRAWING SCALE: 1"=20'H; 1"=5'V |

FILE: SSWR\_PnPh\_1.dwg SHEET NO: 07

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Crystal Reed

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 crystal.reed



**SPECIAL NOTES**  
 CONTRACTOR MUST HAVE AN APPROVED TRENCH SAFETY AND SHORING DESIGN, SEE ADDITIONAL NOTES SHEET 02.  
 AT LEAST ONE LANE OF TRAFFIC IS TO REMAIN OPEN ON BELTWAY DRIVE AT ALL TIMES, SEE ADDITIONAL TRAFFIC NOTES SHEET 03.

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 WM BART HINES, P.E. No. 49126  
 DATE 4/26/2021

CP-8  
 'X' CUT  
 N=7033282.9139  
 E=2478442.5775  
 ELEVATION =625.89

CP-9  
 'X' CUT  
 N=7033343.6603  
 E=2478547.9288  
 ELEVATION =626.88

**SURVEY CONTROL**  
 CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL

NOTE: ALL COORDINATES ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE, NAD 83. ALL DISTANCES AND COORDINATES ARE EXPRESSED IN US SURVEY FEET. ALL DISTANCES AND COORDINATES ARE SURFACE AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SURFACE FACTOR OF 0.9998496003.

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PUBLIC WORKS & ENGINEERING SERVICES 972-450-2871  
 TEXAS ONE CALL/DIG TESS 1-811-344-8377  
 ONCOR 1-888-313-6862  
 AT&T 1-800-331-0500  
 SPECTRUM/CHARTER COMMUNICATIONS 1-888-438-2427  
 ATMOS ENERGY 1-888-286-6700

| REV. NO. | DESCRIPTION | CHK. BY | DATE |
|----------|-------------|---------|------|
|          |             |         |      |



ADDISON, TEXAS  
 PUBLIC WORKS &  
 ENGINEERING SERVICES

SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
 PROJECT NO. 513301

PROPOSED 15" SS  
 LINE 'A' PLAN & PROFILE  
 STA 17+00-20+00

**DANNENBAUM**  
 ENGINEERING COMPANY - DALLAS, LLC  
 T.B.P.E. FIRM REGISTRATION #8996  
 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

|                  |                                |
|------------------|--------------------------------|
| DESIGNED BY: WBH | DATE: 4/26/2021                |
| DRAWN BY: CMR    | PROJECT NO: 513301             |
| CHECKED BY: DEG  | DRAWING SCALE: 1"=20'H; 1"=5'V |

FILE: SSWR\_PnP\_1.dwg SHEET NO: 08





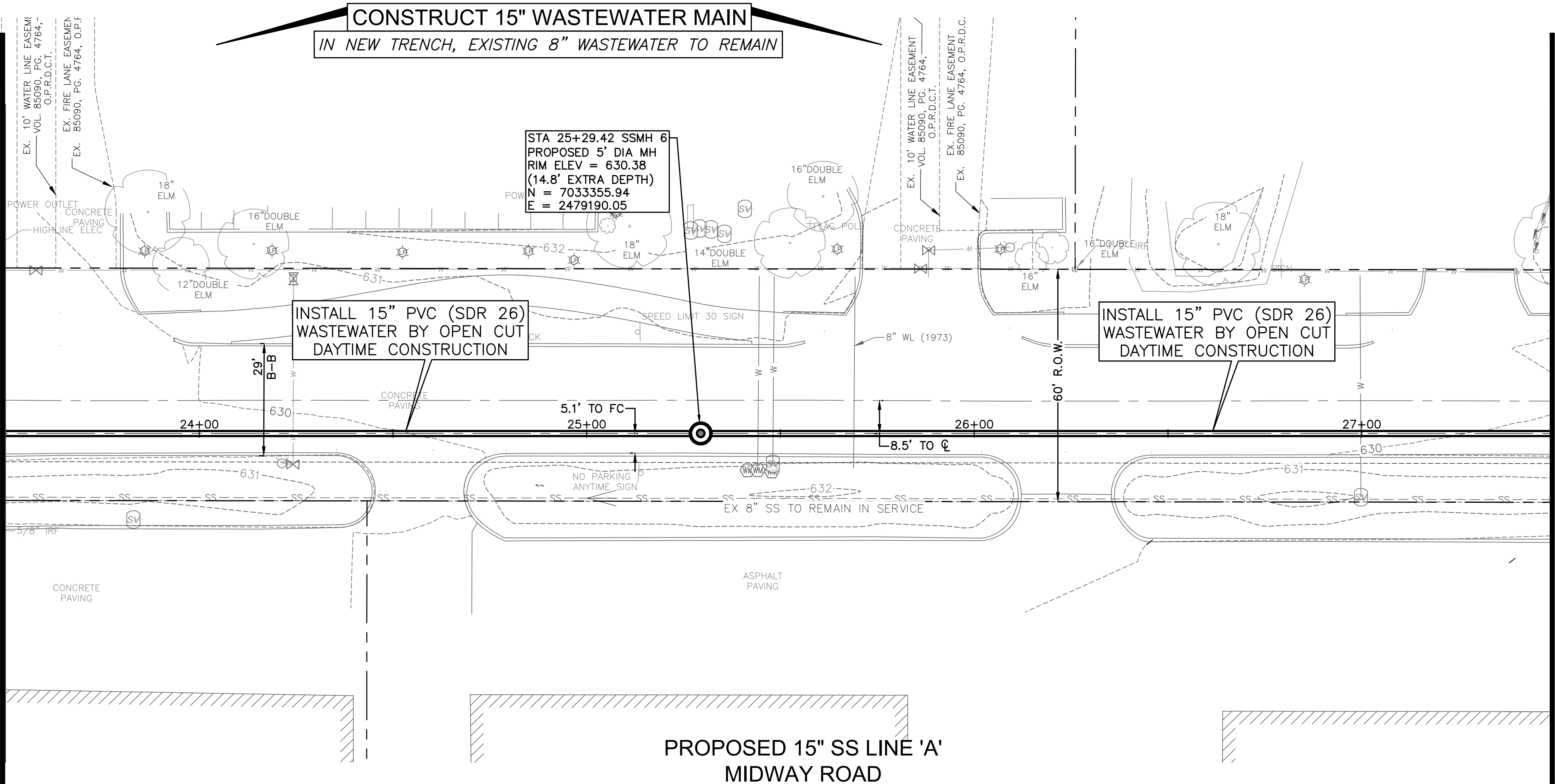
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 REF: DEC 11, 2013  
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 crystalread

SEE SHEET 09  
MATCHLINE STA 23+50

MATCHLINE 23+50

MATCHLINE STA 27+50  
SEE SHEET 11

MATCHLINE 27+50



**CONSTRUCT 15" WASTEWATER MAIN**  
 IN NEW TRENCH, EXISTING 8" WASTEWATER TO REMAIN

STA 25+29.42 SSMH 6  
 PROPOSED 5' DIA MH  
 RIM ELEV = 630.38  
 (14.8' EXTRA DEPTH)  
 N = 7033355.94  
 E = 2479190.05

INSTALL 15" PVC (SDR 26)  
 WASTEWATER BY OPEN CUT  
 DAYTIME CONSTRUCTION

INSTALL 15" PVC (SDR 26)  
 WASTEWATER BY OPEN CUT  
 DAYTIME CONSTRUCTION

**PROPOSED 15" SS LINE 'A'**  
**MIDWAY ROAD**

SS LINE 'A'  
 400 LF 15" PVC PRESSURE RATED WASTEWATER PIPE  
 ASTM D3034 (SDR 26)  
 BY OPEN CUT  
 DAYTIME CONSTRUCTION

| REV. NO. | DESCRIPTION | CHK. BY | DATE |
|----------|-------------|---------|------|
| 635      |             |         | 635  |
| 630      |             |         | 630  |
| 625      |             |         | 625  |
| 620      |             |         | 620  |
| 615      |             |         | 615  |
| 610      |             |         | 610  |
| 605      |             |         | 605  |
| 600      |             |         | 600  |

180 LF OF  
 15" PVC @ 0.15%  
 V=2.0 FPS, Q=1.6 MGD

220 LF OF  
 15" PVC @ 0.15%  
 V=2.0 FPS, Q=1.6 MGD

STA 25+29.42 SSMH 6  
 PRO 5' DIA SSMH  
 RIM ELEV=630.38  
 (14.8' EXTRA DEPTH)  
 15" FL OUT=609.65  
 15" FL IN=609.75

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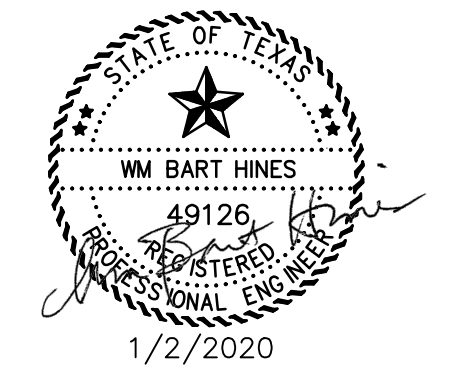
**SURVEY CONTROL**  
 CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL  
 NOTE: ALL COORDINATES ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE, NAD 83. ALL DISTANCES AND COORDINATES ARE EXPRESSED IN US SURVEY FEET. ALL DISTANCES AND COORDINATES ARE SURFACE AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SURFACE FACTOR OF 0.9998496003.

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PUBLIC WORKS & ENGINEERING SERVICES 972-450-2871  
 TEXAS ONE CALL/DIG TESS 1-811-344-8377  
 ONCOR 1-888-313-6862  
 AT&T 1-800-331-0500  
 SPECTRUM/CHARTER COMMUNICATIONS 1-888-438-2427  
 ATMOS ENERGY 1-888-286-6700



**ADDISON, TEXAS**  
**PUBLIC WORKS &**  
**ENGINEERING SERVICES**

SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
 PROJECT NO. 513301

PROPOSED 15" SS  
 LINE 'A' PLAN & PROFILE  
 STA 23+50-27+50

**DANNENBAUM**  
 ENGINEERING COMPANY - DALLAS, LLC  
 T.B.P.E. FIRM REGISTRATION #8996  
 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

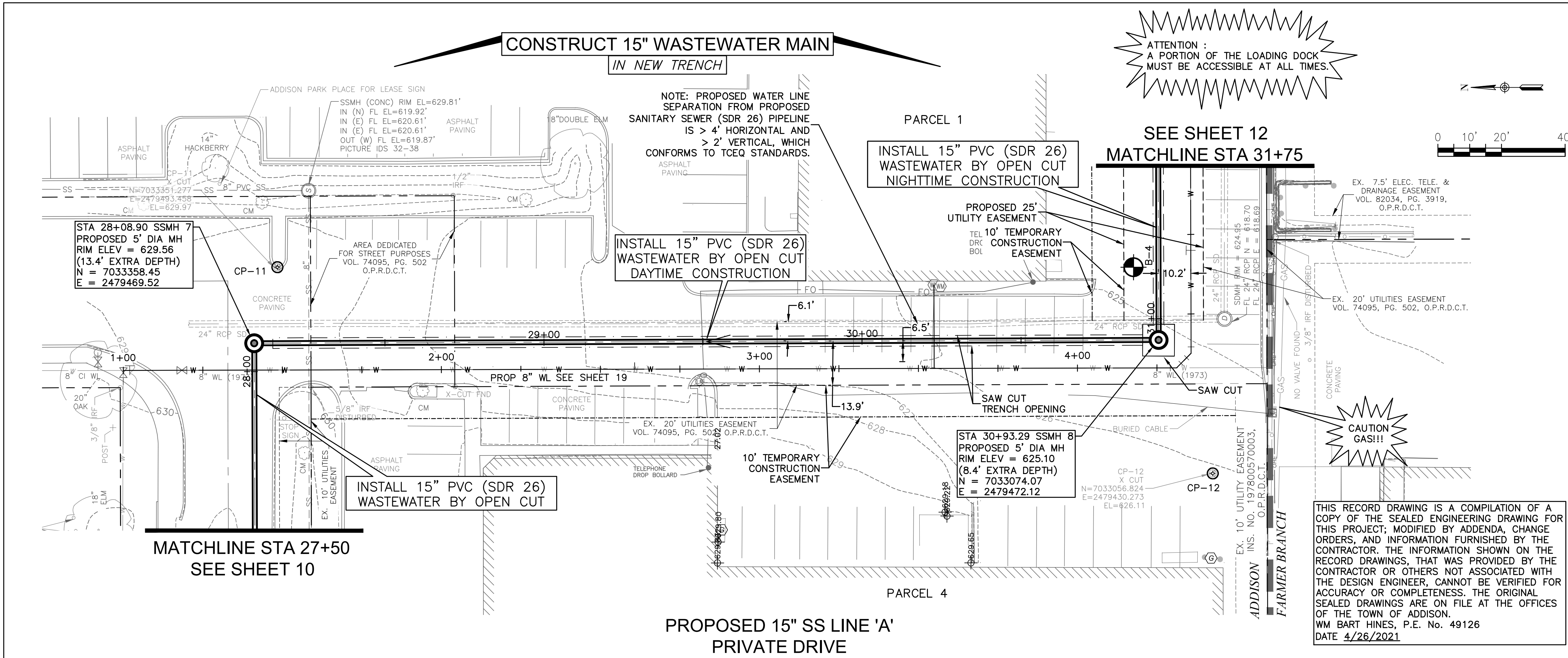
DESIGNED BY: WBH DATE: 4/26/2021

DRAWN BY: CMR PROJECT NO: 513301

CHECKED BY: DEG DRAWING SCALE: 1"=20'H; 1"=5'V

FILE: SSWR\_PnP\_2.dwg SHEET NO: 10

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 PLOTTED: Apr 26, 2021 - 2:22pm  
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 crystalread



**ATTENTION:**  
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**SPECIAL NOTE:**  
 STA 29+09 TO 39+38 SAW CUT PAVEMENT PER WASTEWATER MAIN EMBEDMENT DETAIL SHEET 15

CONTROL  
 CP-11  
 X CUT  
 N=7033351.277  
 E=2479493.458  
 EL=629.97  
 SURVEY CONTROL  
 CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL

CONTROL  
 CP-12  
 X CUT  
 N=7033056.824  
 E=2479430.273  
 EL=626.11

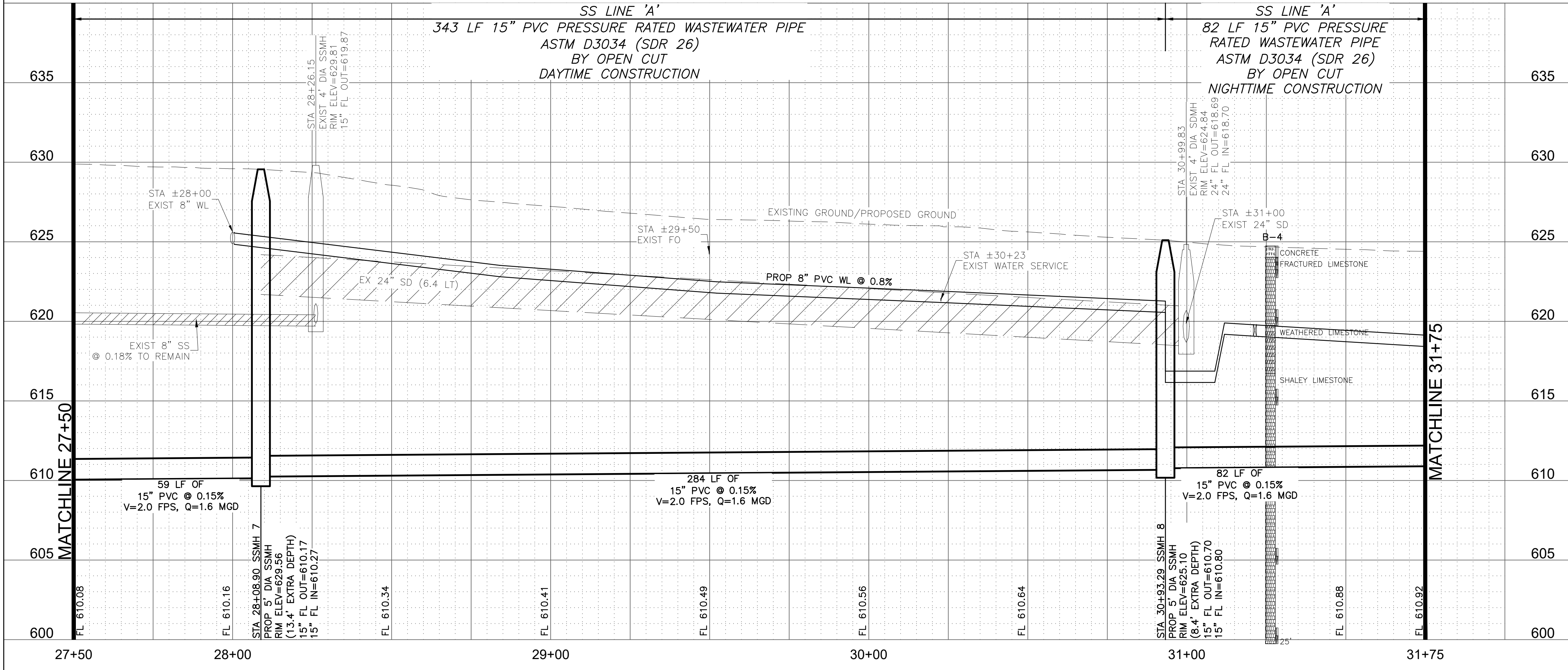
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|                                     |                |
|-------------------------------------|----------------|
| PUBLIC WORKS & ENGINEERING SERVICES | 972-450-2871   |
| TEXAS ONE CALL/DIG TESS             | 1-811-344-8377 |
| ONCOR                               | 1-888-313-6862 |
| AT&T                                | 1-800-331-0500 |
| SPECTRUM/CHARTER COMMUNICATIONS     | 1-888-438-2427 |
| ATMOS ENERGY                        | 1-888-286-6700 |



| REV. NO. | DESCRIPTION | CHK. BY | DATE |
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|          |             |         |      |

**ADDISON, TEXAS  
 PUBLIC WORKS &  
 ENGINEERING SERVICES**

SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
 PROJECT NO. 513301

PROPOSED 15" SS  
 LINE 'A' PLAN & PROFILE  
 STA 27+50-31+75

**DANNENBAUM**  
 ENGINEERING COMPANY - DALLAS, LLC  
 T.B.P.E. FIRM REGISTRATION #8996  
 3030 LBW FWY #910, DALLAS, TX 75234 (972) 239-2002

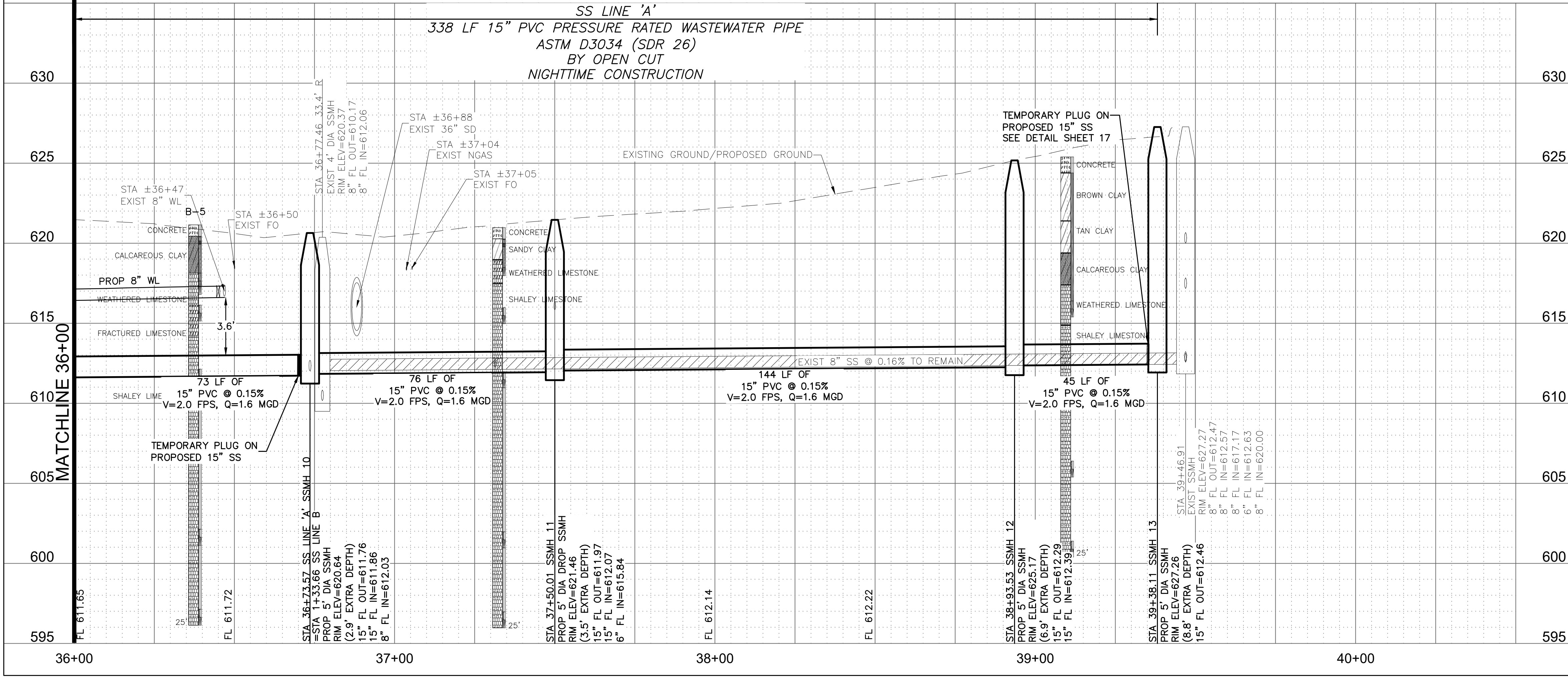
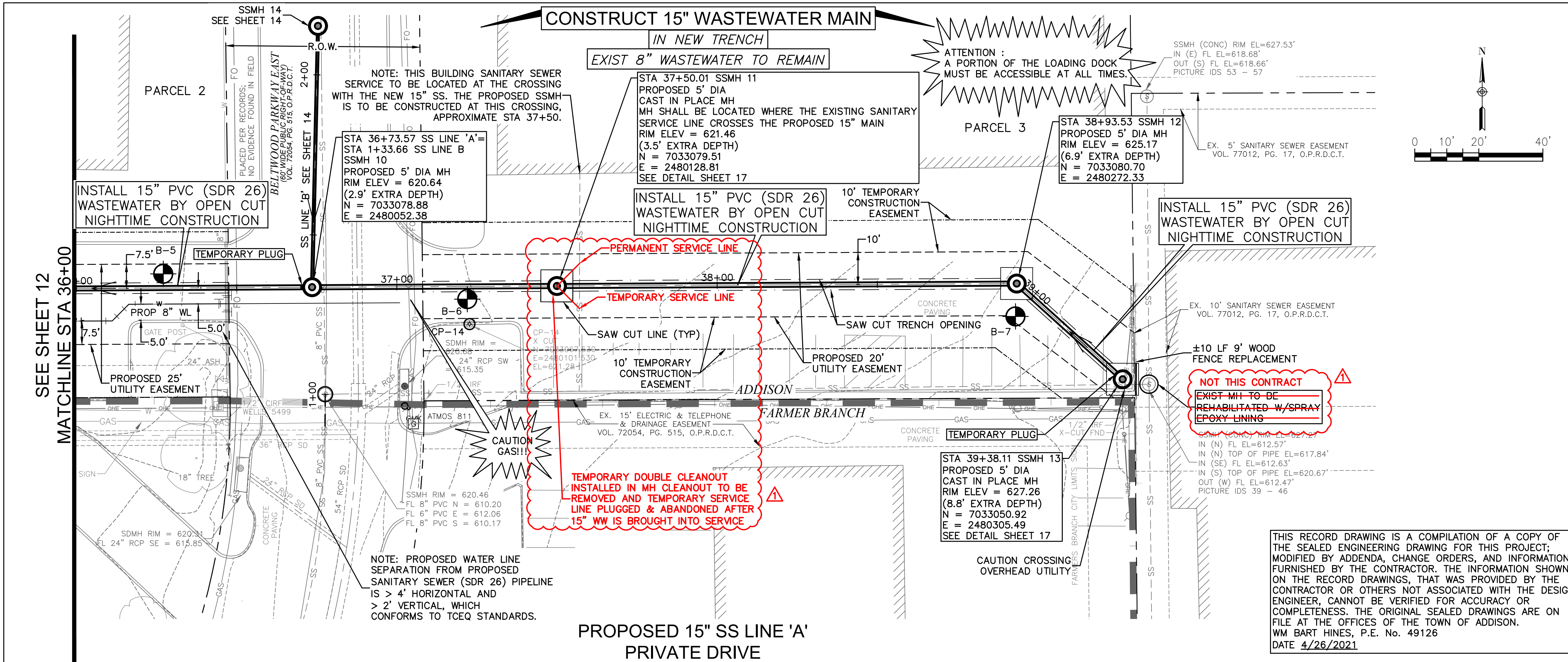
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| DESIGNED BY: WBH | DATE: 4/26/2021                |
| DRAWN BY: CMR    | PROJECT NO: 513301             |
| CHECKED BY: DEG  | DRAWING SCALE: 1"=20'H; 1"=5'V |

FILE: SSWR\_PnPh\_2.dwg

SHEET NO: 11



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 crystalread



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**SPECIAL NOTE:**  
 STA 29+09 TO 39+38 SAW CUT PAVEMENT PER WASTEWATER MAIN EMBEDMENT DETAIL SHEET 15

**CONTROL**  
 CP-14  
 X CUT  
 N=7033067.530  
 E=2480101.530  
 EL=621.28

**SURVEY CONTROL**  
 CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL

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|                                     |                |
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| PUBLIC WORKS & ENGINEERING SERVICES | 972-450-2871   |
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| SPECTRUM/CHARTER COMMUNICATIONS     | 1-888-438-2427 |
| ATMOS ENERGY                        | 1-888-286-6700 |

|          | <b>RECORD DRAWING REVISION</b> | <b>WBH</b> | <b>04/26/21</b> |
|----------|--------------------------------|------------|-----------------|
| REV. NO. | DESCRIPTION                    | CHK. BY    | DATE            |

**ADDISON, TEXAS  
 PUBLIC WORKS &  
 ENGINEERING SERVICES**

**SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
 PROJECT NO. 513301**

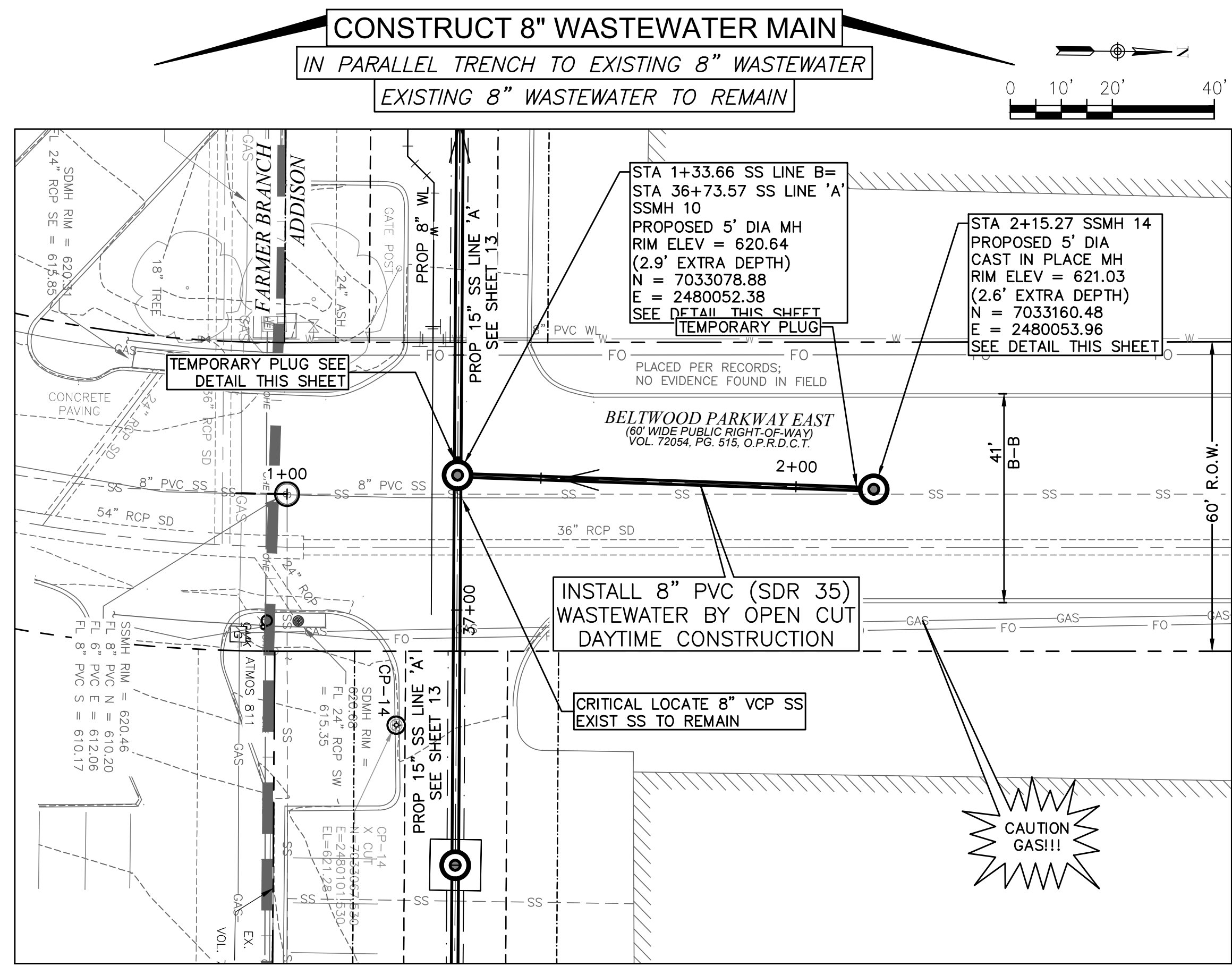
**PROPOSED 15" SS  
 LINE 'A' PLAN & PROFILE  
 STA 36+00-END**

**DANNENBAUM**  
 ENGINEERING COMPANY - DALLAS, LLC  
 T.B.P.E. FIRM REGISTRATION #8996  
 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

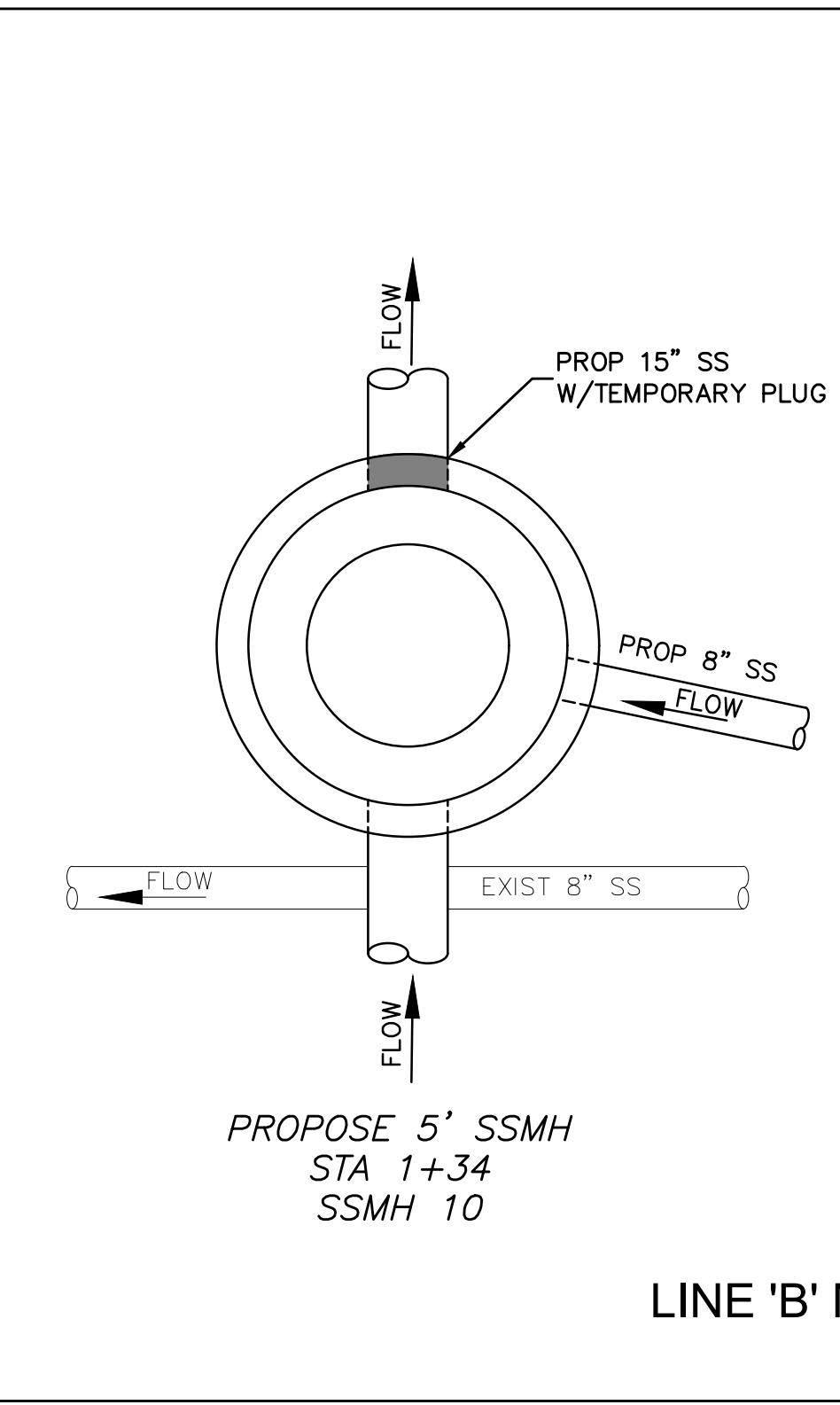
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| DESIGNED BY: WBH | DATE: 4/26/2021                |
| DRAWN BY: CMR    | PROJECT NO: 513301             |
| CHECKED BY: DEG  | DRAWING SCALE: 1"=20'H; 1"=5'V |

FILE: SSWR\_PnPh\_2.dwg SHEET NO: 13

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 crystalread



**PROPOSED 8" SS LINE 'B'  
 BELTWOOD PARKWAY EAST**



**LINE 'B' MANHOLE DETAILS  
 NTS**

- NOTE:
- CONTRACTOR TO BUILD NEW MH, AT STA 2+15, AROUND EXISTING 8" SS MAIN W/WATER TIGHT FITTING.
  - THE CONTRACTOR MUST PREPARE A CONCRETE BENCH THAT WILL CHANNEL FLOW TO NEW 8" SS
  - DO NOT CUT EXISTING 8" SEWER MAIN.

ATTENTION :  
 THE CONTRACTOR SHALL NOT DO ANY WORK OR CONSTRUCTION IN THE FARMER'S BRANCH CITY LIMITS. PLEASE CONTACT THE TOWN OF ADDISON STAFF IF THERE IS ANY QUESTION REGARDING WORK THAT IMPACTS IN THE FARMERS BRANCH CITY LIMITS.

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 WM BART HINES, P.E. No. 49126  
 DATE 4/26/2021

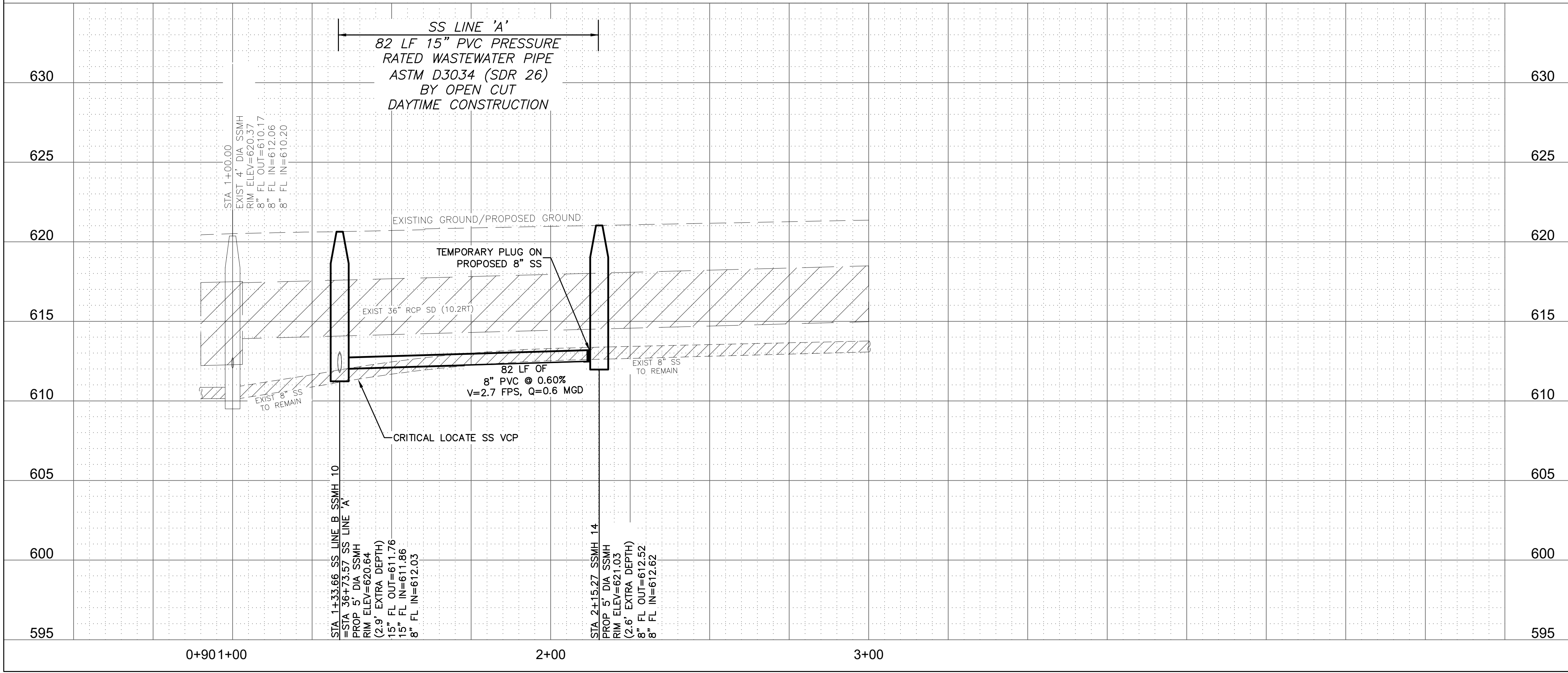
SURVEY CONTROL  
 CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL  
 NOTE: ALL COORDINATES ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE, NAD 83. ALL DISTANCES AND COORDINATES ARE EXPRESSED IN US SURVEY FEET. ALL DISTANCES AND COORDINATES ARE SURFACE AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SURFACE FACTOR OF 0.9998496003.

FLOODPLAIN NOTE: THE ENTIRE PROJECT IS LOCATED WITHIN ZONE 'X' (AREA OF MINIMAL FLOODING) PER FEMA FIRM MAP 48113C0180K, EFFECTIVE 07/07/2014.

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WARNING! UNDERGROUND UTILITIES IN AREA OF CONSTRUCTION. CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATION IN THIS AREA.

|                                     |                |
|-------------------------------------|----------------|
| PUBLIC WORKS & ENGINEERING SERVICES | 972-450-2871   |
| TEXAS ONE CALL/DIG TESS             | 1-811-344-8377 |
| ONCOR                               | 1-888-313-6862 |
| AT&T                                | 1-800-331-0500 |
| SPECTRUM/CHARTER COMMUNICATIONS     | 1-888-438-2427 |
| ATMOS ENERGY                        | 1-888-286-6700 |



| REV. NO. | DESCRIPTION | CHK. BY | DATE |
|----------|-------------|---------|------|
|          |             |         |      |



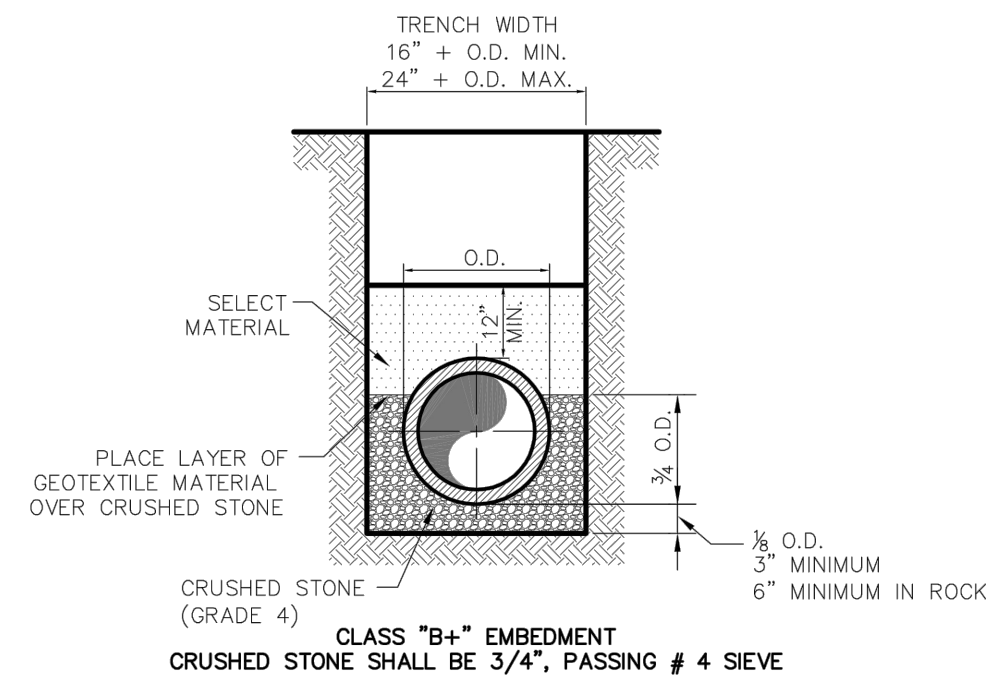
**ADDISON, TEXAS  
 PUBLIC WORKS &  
 ENGINEERING SERVICES**

SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
 PROJECT NO. 513301

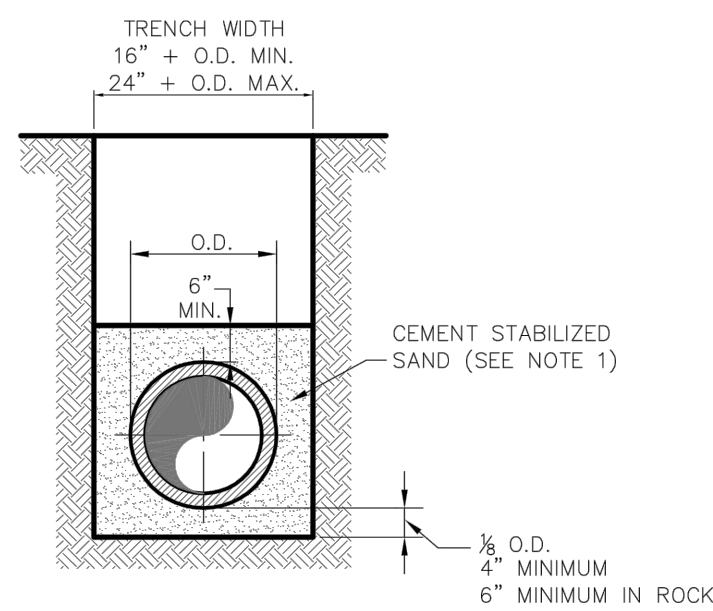
**PROPOSED 8" SS  
 LINE 'B' PLAN & PROFILE**

**DANNENBAUM**  
 ENGINEERING COMPANY - DALLAS, LLC  
 T.B.P.E. FIRM REGISTRATION #8996  
 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

|                      |                                |
|----------------------|--------------------------------|
| DESIGNED BY: WBH     | DATE: 4/26/2021                |
| DRAWN BY: CMR        | PROJECT NO: 513301             |
| CHECKED BY: DEG      | DRAWING SCALE: 1"=20'H; 1"=5'V |
| FILE: SSWR_PnP_2.dwg | SHEET NO: 14                   |



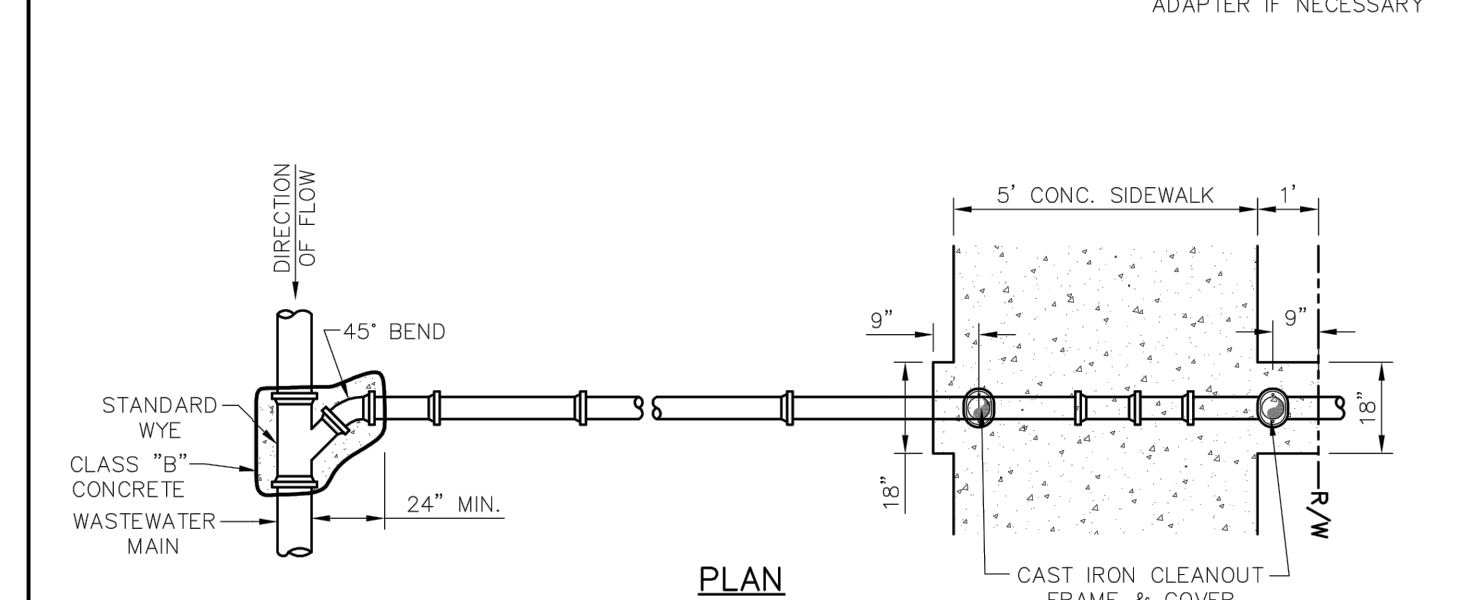
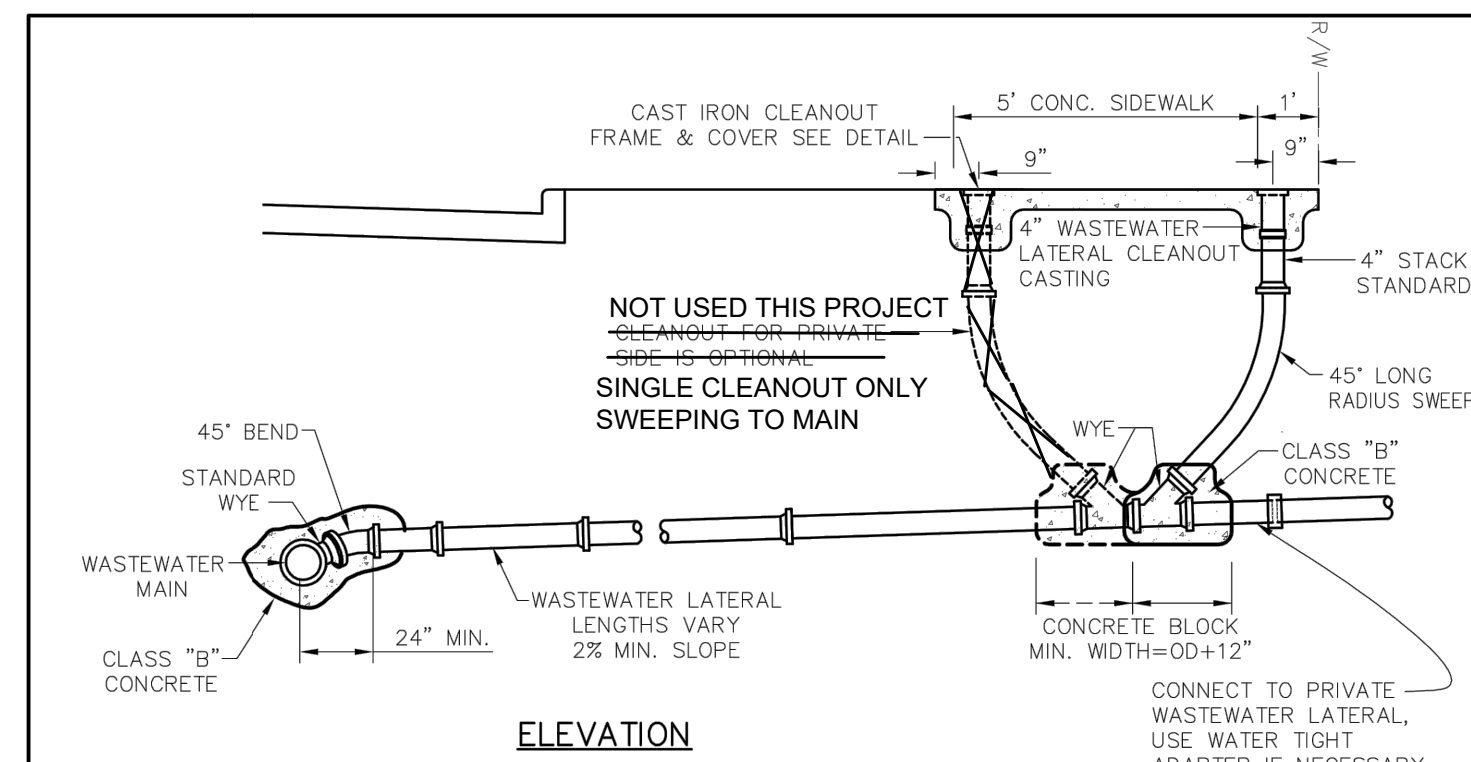
TYPICAL P.V.C. WASTEWATER MAIN EMBEDMENT



P.V.C. WASTEWATER MAIN CEMENT STABILIZED SAND EMBEDMENT

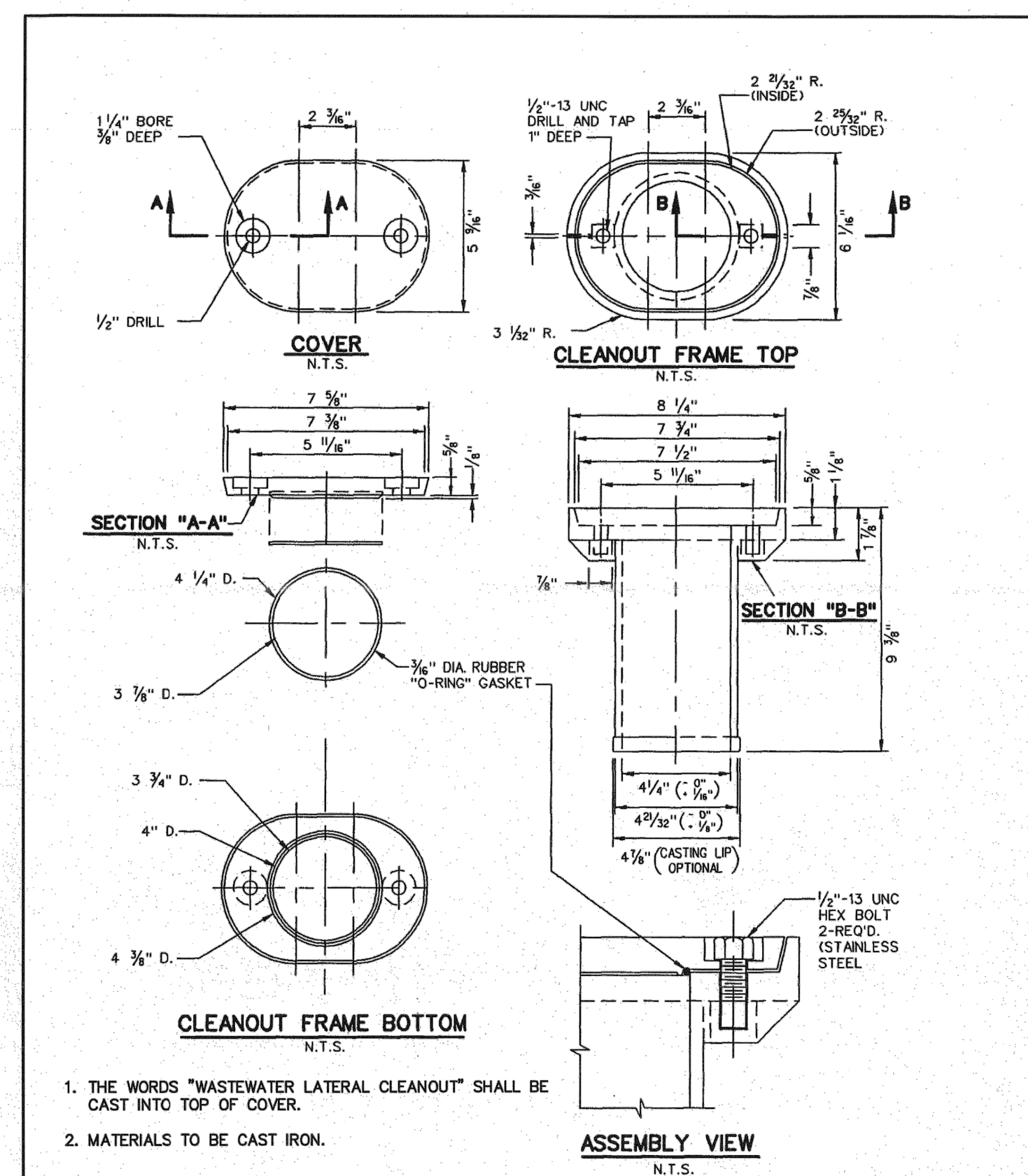
**NOTE:**  
 1. CEMENT STABILIZED SAND SHALL HAVE A MINIMUM OF 10% CEMENT PER CUBIC YARD OF CEMENT STABILIZED SAND MIXTURE, BASED ON LOOSE DRY WEIGHT VOLUME (AT LEAST 2.5 BAGS OF CEMENT PER CUBIC YARD OF MIXTURE). THE USE OF BROWN COLORING IN CEMENT STABILIZED SAND IS REQUIRED FOR PRESSURE RATED WASTEWATER MAIN AND LATERAL BEDDING.

|                             |                                  |  |            |                |
|-----------------------------|----------------------------------|--|------------|----------------|
| <br>PUBLIC WORKS DEPARTMENT | P.V.C. WASTEWATER MAIN EMBEDMENT | STANDARD CONSTRUCTION DETAILS WASTEWATER |            |                |
|                             |                                  | DATE: AUGUST, 2010                       | REV. DATE: | SHEET: SD-WW01 |



**NOTES:**  
 1. WASTEWATER LATERALS ARE TO BE CONSTRUCTED TO CLEAR EXISTING AND PROPOSED FACILITIES, SUCH AS STORM DRAIN MAINS, RETAINING WALLS, OTHER UTILITIES, ETC.  
 2. THE WASTEWATER LATERAL SHALL HAVE MINIMUM COVER OF 4'-0" BELOW THE PROPOSED CURB GRADE AT THE PROPERTY LINE, DETERMINED FROM PAVING GRADE, OR AS REQUIRED TO MAINTAIN A MINIMUM OF 2.0% GRADE, OR AS DIRECTED BY THE OWNER.

|                             |                                   |  |            |                |
|-----------------------------|-----------------------------------|--|------------|----------------|
| <br>PUBLIC WORKS DEPARTMENT | TWO-WAY CLEANOUT NEW CONSTRUCTION | STANDARD CONSTRUCTION DETAILS WASTEWATER |            |                |
|                             |                                   | DATE: AUGUST, 2010                       | REV. DATE: | SHEET: SD-WW02 |



|                             |                                  |  |            |                |
|-----------------------------|----------------------------------|--|------------|----------------|
| <br>PUBLIC WORKS DEPARTMENT | CAST IRON CLEANOUT FRAME & COVER | STANDARD CONSTRUCTION DETAILS WASTEWATER |            |                |
|                             |                                  | DATE: AUGUST, 2010                       | REV. DATE: | SHEET: SD-WW03 |

**NOT THIS CONTRACT**  
**SPECIAL NOTE:**  
 ALL CONCRETE MANHOLES SHALL BE COATED WITH A SPRAY EPOXY LINING SYSTEM, SUCH AS WARREN ENVIRONMENTAL EPOXY SYSTEMS, S-301-14 OR APPROVED EQUAL. NO POLYUREA TYPE COATINGS WILL BE ACCEPTED. MINIMUM THICKNESS OF 125 MILS

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 WM BART HINES, P.E. No. 49126  
 DATE 4/26/2021

**SURVEY CONTROL**  
 CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL  
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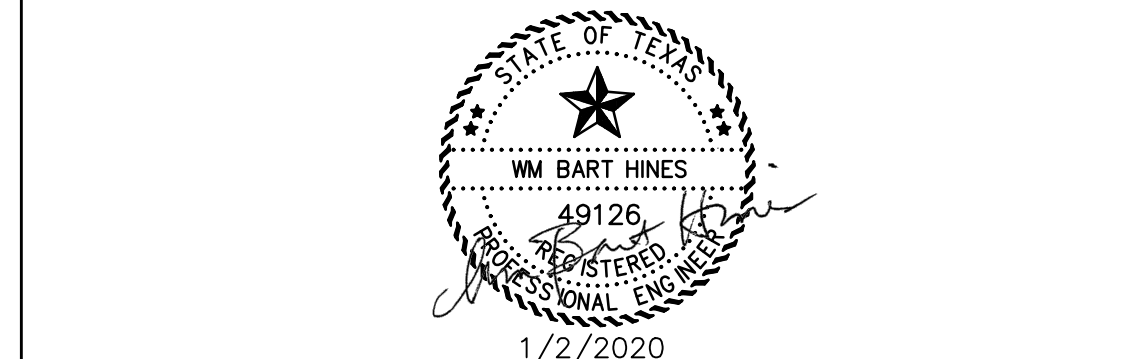
**FLOODPLAIN NOTE:** THE ENTIRE PROJECT IS LOCATED WITHIN ZONE 'X' (AREA OF MINIMAL FLOODING) PER FEMA FIRM MAP 48113C0180K, EFFECTIVE 07/07/2014.

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|                                     |                |
|-------------------------------------|----------------|
| PUBLIC WORKS & ENGINEERING SERVICES | 972-450-2871   |
| TEXAS ONE CALL/DIG TESS             | 1-811-344-8377 |
| ONCOR                               | 1-888-313-6862 |
| AT&T                                | 1-800-331-0500 |
| SPECTRUM/CHARTER COMMUNICATIONS     | 1-888-438-2427 |
| ATMOS ENERGY                        | 1-888-286-6700 |

| △        | RECORD DRAWING REVISION | WBH     | 04/26/21 |
|----------|-------------------------|---------|----------|
| REV. NO. | DESCRIPTION             | CHK. BY | DATE     |



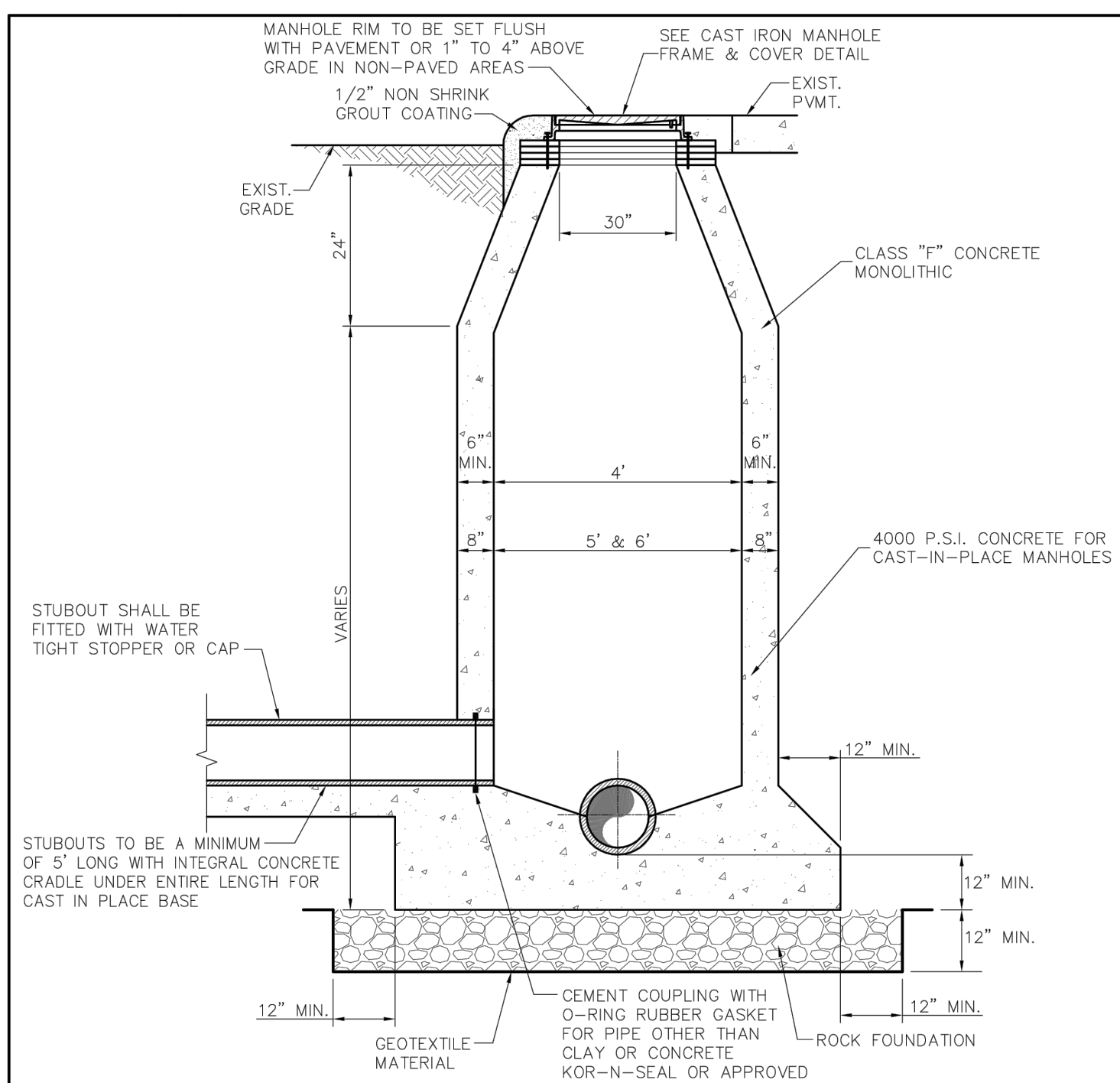
ADDISON, TEXAS  
 PUBLIC WORKS &  
 ENGINEERING SERVICES

SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
 PROJECT NO. 513301

SANITARY SEWER DETAILS  
 (1 OF 3)

**DANNENBAUM**  
 ENGINEERING COMPANY - DALLAS, LLC  
 T.B.P.E. FIRM REGISTRATION #8996  
 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

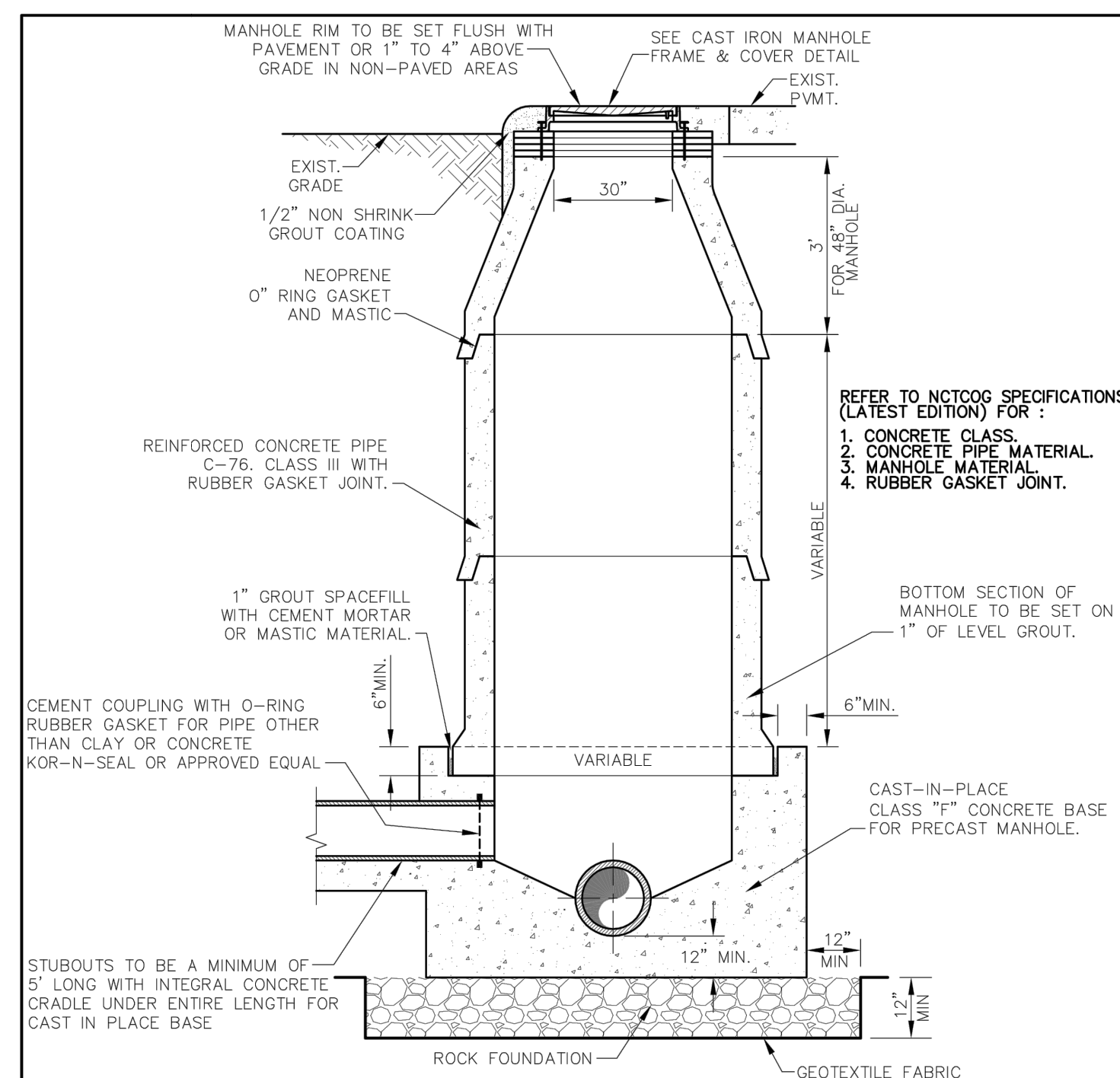
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| DESIGNED BY: WBH     | DATE: 4/26/2021    |
| DRAWN BY: CMR        | PROJECT NO: 513301 |
| CHECKED BY: DEG      | DRAWING SCALE: NTS |
| FILE: DETAILS_SS.dwg | SHEET NO: 15       |



**NOTES:**  
 1. IF FALSE MANHOLE BOTTOMS ARE REQUIRED, THEY SHALL BE CONSTRUCTED, INSTALLED, AND REMOVED PER WASTEWATER MANHOLE FALSE BOTTOM STD. DETAIL.  
 2. WHERE MANHOLES ARE OUTSIDE OF PAVEMENT, FRAME & COVER SHALL BE CENTERED IN 5'x5' CONCRETE PAD CLASS 'A' CONCRETE, 4" THICK  
 3. ALL MANHOLES SHALL PASS VACUUM TEST AS PER NCTCOG SPECIFICATIONS

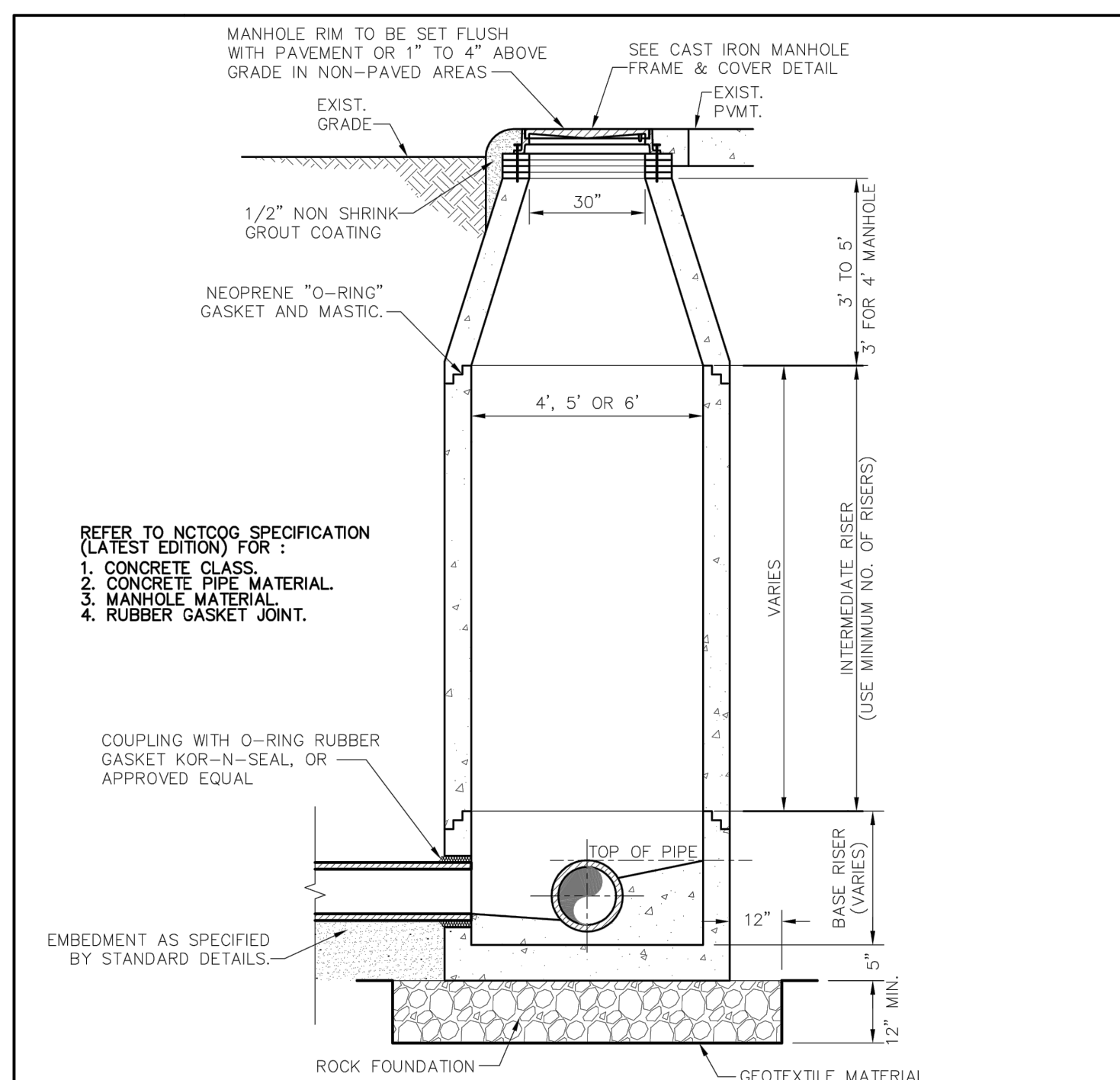
**CAST-IN-PLACE NOTES:**  
 1. KEYWAYS REQUIRED FOR ALL CONSTRUCTION JOINTS.  
 2. P.V.C. WATER STOP REQUIRED FOR ALL JOINTS IN LOWER 4'-0" OF MANHOLES  
 3. CONCRETE SHALL BE 4000 P.S.I.

|                             |                       |  |            |                |
|-----------------------------|-----------------------|--|------------|----------------|
| <br>PUBLIC WORKS DEPARTMENT | CAST-IN-PLACE MANHOLE | STANDARD CONSTRUCTION DETAILS WASTEWATER |            |                |
|                             |                       | DATE: AUGUST, 2010                       | REV. DATE: | SHEET: SD-WW04 |



**NOTES:**  
 1. IF FALSE MANHOLE BOTTOMS ARE REQUIRED, THEY SHALL BE CONSTRUCTED, INSTALLED, AND REMOVED PER WASTEWATER MANHOLE FALSE BOTTOM STD. DETAIL.  
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 3. ALL MANHOLES SHALL PASS VACUUM TEST AS PER NCTCOG SPECIFICATIONS

|                             |   |  |            |                |
|-----------------------------|---|--|------------|----------------|
| <br>PUBLIC WORKS DEPARTMENT | PRECAST CONCRETE PIPE MANHOLE ALTERNATE "A" | STANDARD CONSTRUCTION DETAILS WASTEWATER |            |                |
|                             |   | DATE: AUGUST, 2010                       | REV. DATE: | SHEET: SD-WW05 |



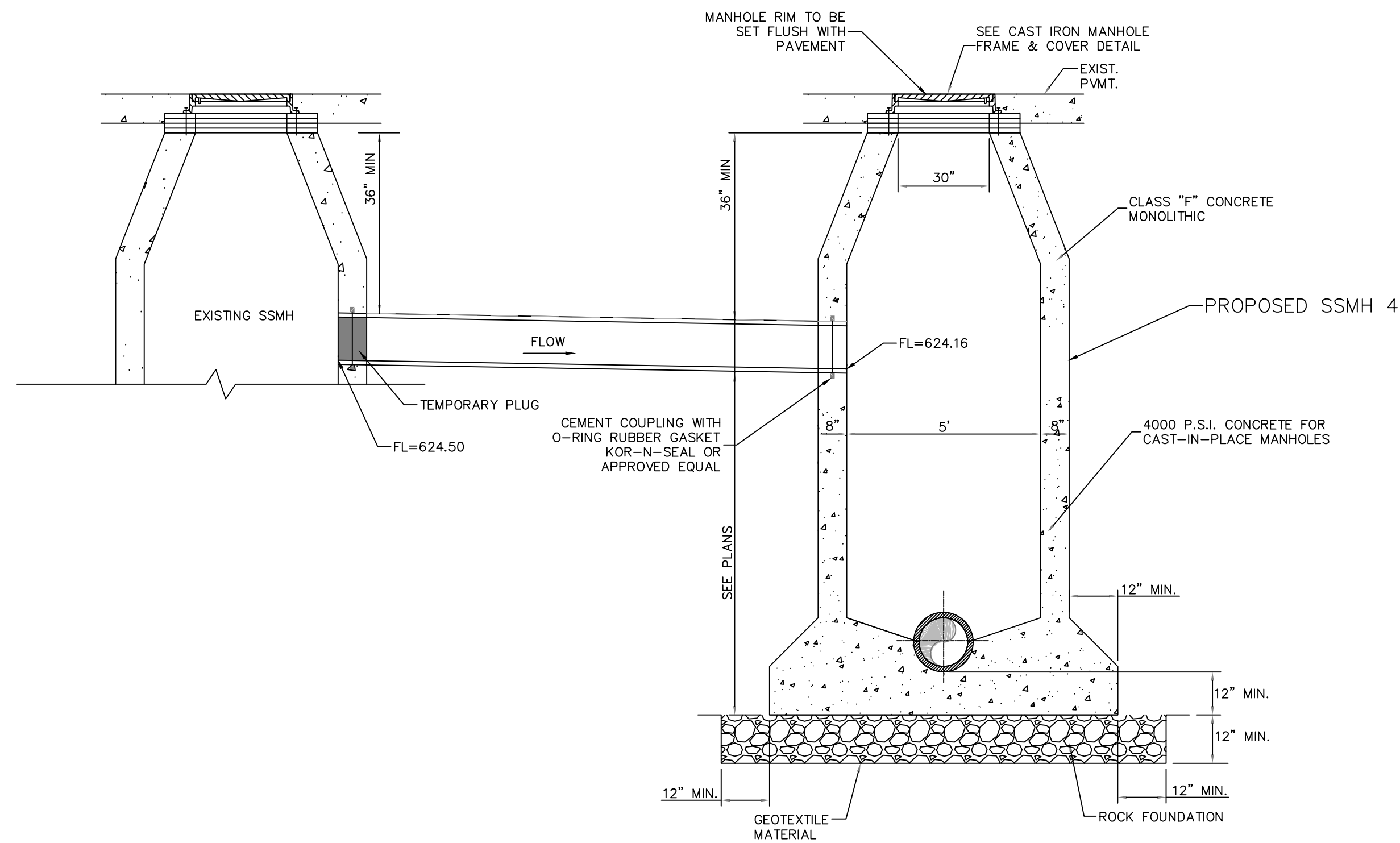
**NOTES:**  
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 2. WHERE MANHOLES ARE OUTSIDE OF PAVEMENT, FRAME & COVER SHALL BE CENTERED IN 5'x5' CONCRETE PAD CLASS 'A' CONCRETE, 4" THICK  
 3. ALL MANHOLES SHALL PASS VACUUM TEST AS PER NCTCOG SPECIFICATIONS

|                             |   |  |            |                |
|-----------------------------|---|--|------------|----------------|
| <br>PUBLIC WORKS DEPARTMENT | PRECAST CONCRETE PIPE MANHOLE ALTERNATE "B" | STANDARD CONSTRUCTION DETAILS WASTEWATER |            |                |
|                             |   | DATE: AUGUST, 2010                       | REV. DATE: | SHEET: SD-WW07 |

G:\1220\5133-01 Addison Basin 1 Final Design\CAD\Construction man\eggen\rev\20210406\513301\_1Flowline redlines for record drawings.dwg  
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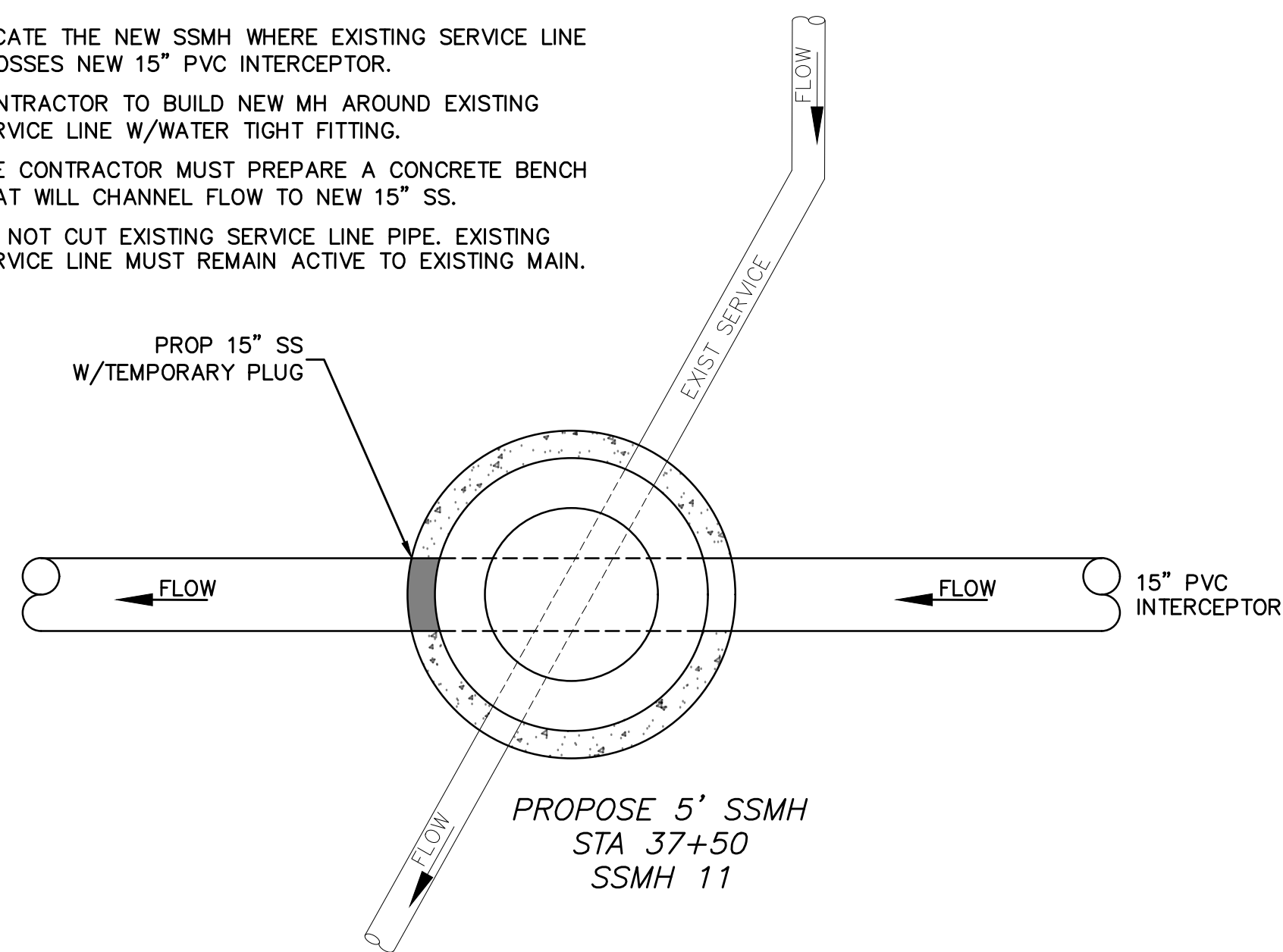






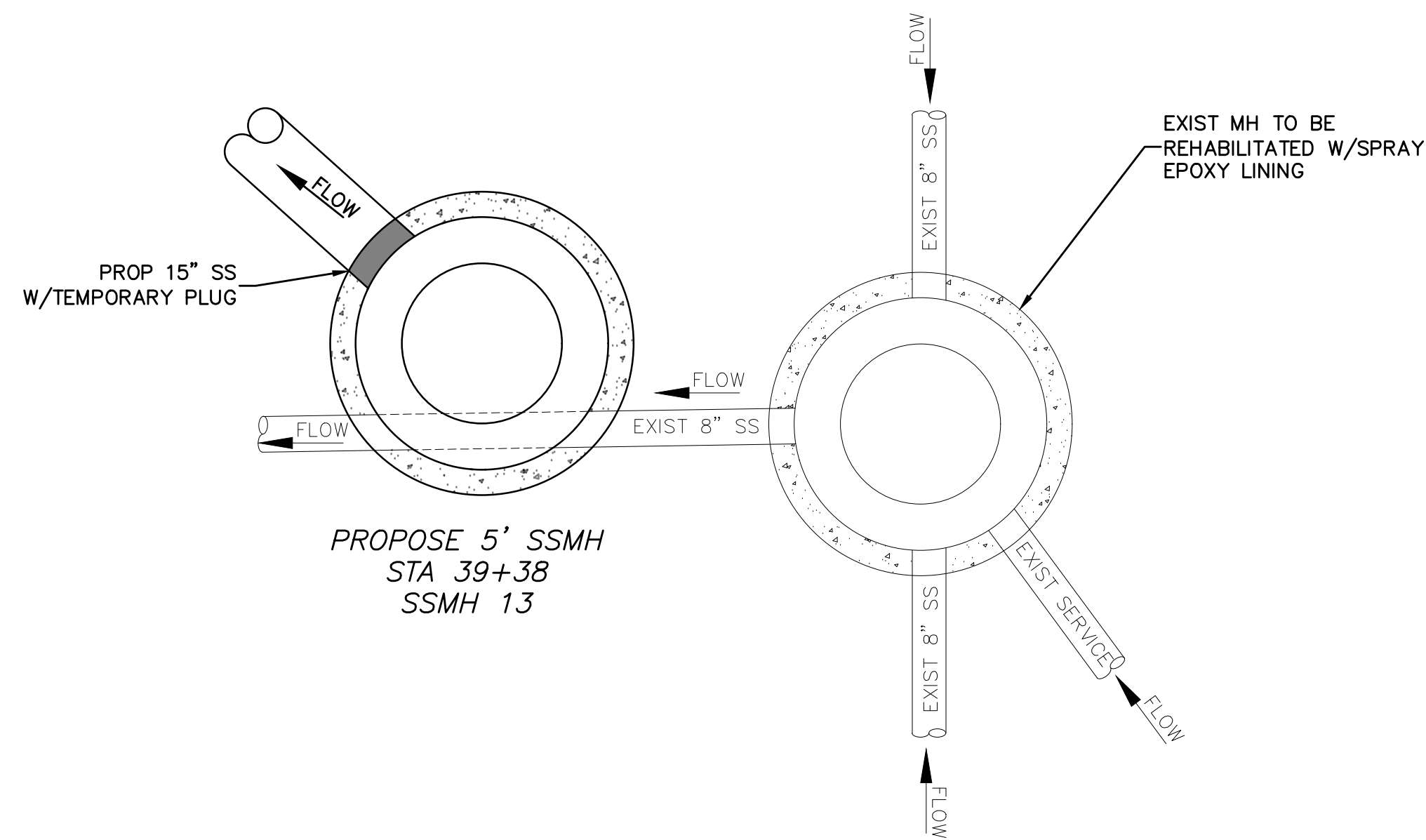
JUMPER LINE DETAIL STA 21+31  
NTS

- NOTE:
1. LOCATE THE NEW SSMH WHERE EXISTING SERVICE LINE CROSSES NEW 15" PVC INTERCEPTOR.
  2. CONTRACTOR TO BUILD NEW MH AROUND EXISTING SERVICE LINE W/WATER TIGHT FITTING.
  3. THE CONTRACTOR MUST PREPARE A CONCRETE BENCH THAT WILL CHANNEL FLOW TO NEW 15" SS.
  4. DO NOT CUT EXISTING SERVICE LINE PIPE. EXISTING SERVICE LINE MUST REMAIN ACTIVE TO EXISTING MAIN.



LINE 'A' MANHOLE DETAIL STA 37+50  
NTS

- NOTE:
1. CONTRACTOR TO BUILD NEW MH AROUND EXISTING 8" SS MAIN W/WATER TIGHT FITTING.
  2. THE CONTRACTOR MUST PREPARE A CONCRETE BENCH THAT WILL CHANNEL FLOW TO NEW 15" SS.
  3. DO NOT CUT EXISTING 8" SEWER MAIN.



LINE 'A' MANHOLE DETAIL STA 39+38  
NTS

**NOT THIS CONTRACT**

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WM BART HINES, P.E. No. 49126  
DATE 4/26/2021

**SURVEY CONTROL**  
CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL

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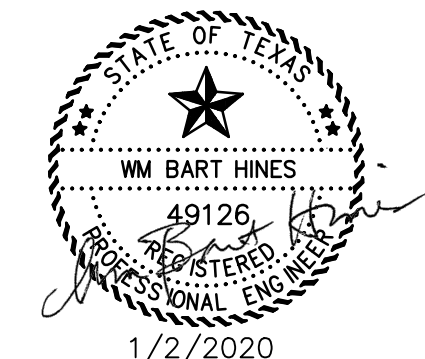
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|                                     |                |
|-------------------------------------|----------------|
| PUBLIC WORKS & ENGINEERING SERVICES | 972-450-2871   |
| TEXAS ONE CALL/DIG TESS             | 1-811-344-8377 |
| ONCOR                               | 1-888-313-6862 |
| AT&T                                | 1-800-331-0500 |
| SPECTRUM/CHARTER COMMUNICATIONS     | 1-888-438-2427 |
| ATMOS ENERGY                        | 1-888-286-6700 |

| REV. NO. | DESCRIPTION             | CHK. BY | DATE     |
|----------|-------------------------|---------|----------|
| 1        | RECORD DRAWING REVISION | WBH     | 04/26/21 |



ADDISON, TEXAS  
PUBLIC WORKS &  
ENGINEERING SERVICES

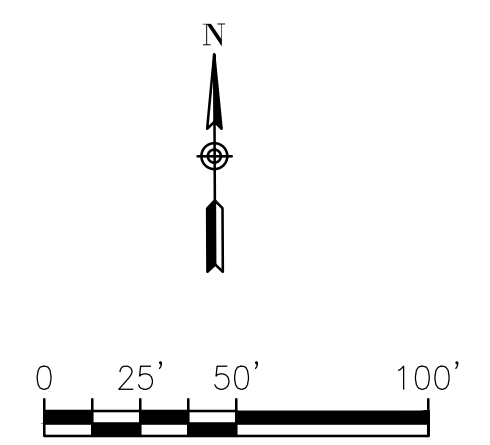
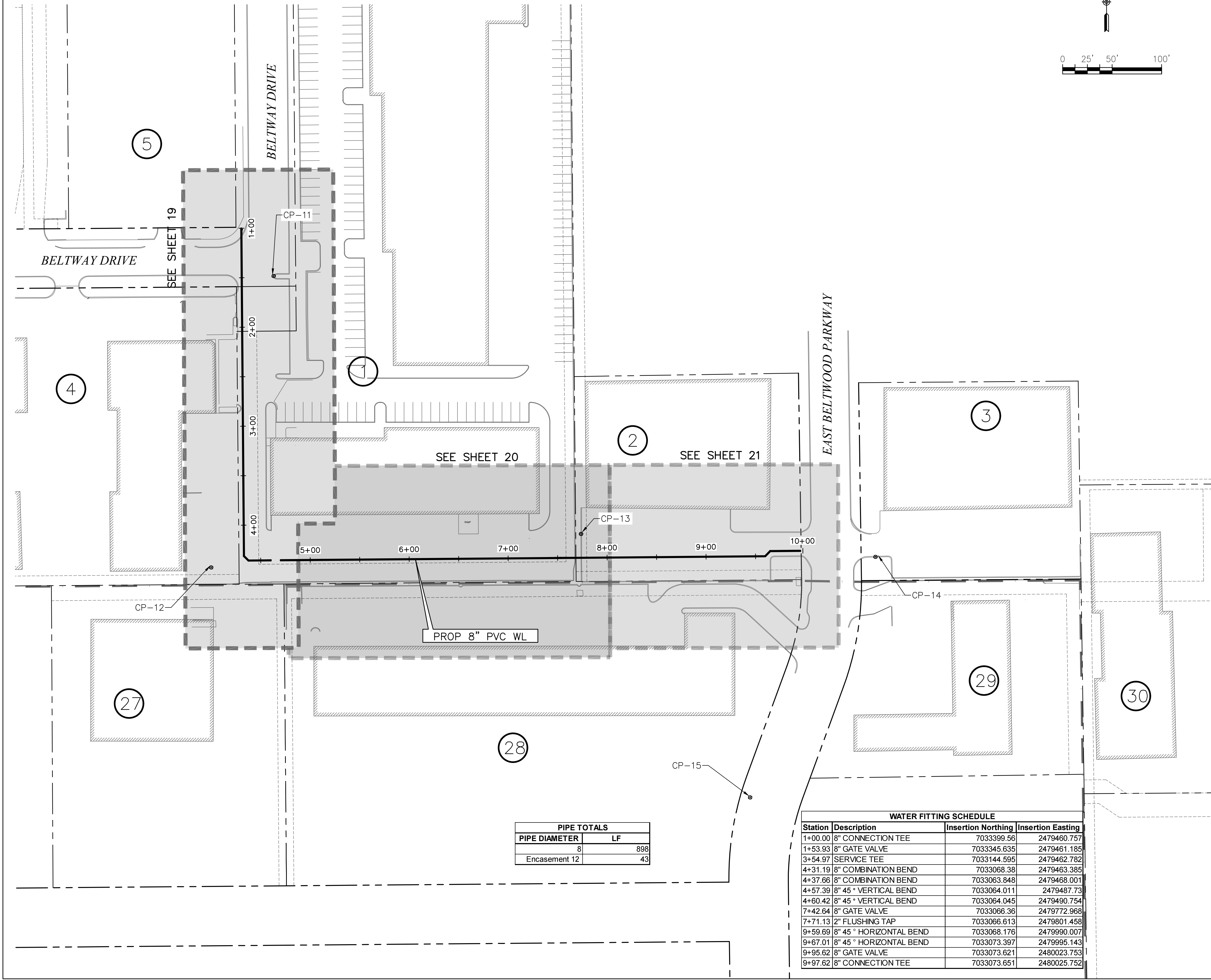
SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
PROJECT NO. 513301

SANITARY SEWER DETAILS  
(3 OF 3)

**DANNENBAUM**  
ENGINEERING COMPANY - DALLAS, LLC  
T.B.P.E. FIRM REGISTRATION #8996  
3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

|                      |                    |
|----------------------|--------------------|
| DESIGNED BY: WBH     | DATE: 4/26/2021    |
| DRAWN BY: CMR        | PROJECT NO: 513301 |
| CHECKED BY: DEG      | DRAWING SCALE: NTS |
| FILE: DETAILS_SS.dwg | SHEET NO: 17       |

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 PLOTTED: Apr 26, 2021 3:53pm  
 Crystal Reed



**LEGEND**

|     |                                |
|-----|--------------------------------|
| --- | R.O.W LINE/PROPERTY LINE       |
| --- | SHEET LAYOUT                   |
| --- | PROPOSED WATERLINE             |
| ⊗   | PROPERTY IDENTIFICATION NUMBER |

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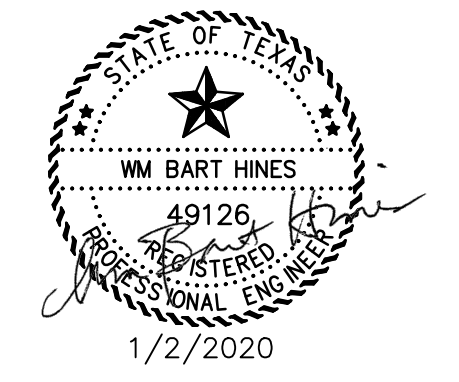
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| ATMOS ENERGY                        | 1-888-286-6700 |

| REV. NO. | DESCRIPTION | CHK. BY | DATE |
|----------|-------------|---------|------|
|          |             |         |      |



**ADDISON, TEXAS  
 PUBLIC WORKS &  
 ENGINEERING SERVICES**

**SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
 PROJECT NO. 513301**

**WATERLINE SHEET LAYOUT**

**DANNENBAUM**  
 ENGINEERING COMPANY - DALLAS, LLC  
 T.B.P.E. FIRM REGISTRATION #8996  
 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

DESIGNED BY: WBH DATE: 1/2/2020

DRAWN BY: CMR PROJECT NO: 513301

CHECKED BY: DEG DRAWING SCALE: 1"=50'

FILE: WTR\_LAYOUT.dwg SHEET NO: 18

**PIPE TOTALS**

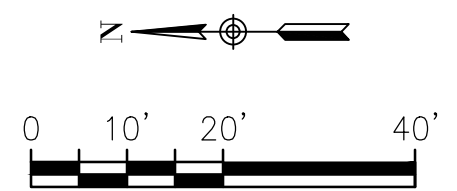
| PIPE DIAMETER  | LF  |
|----------------|-----|
| 8"             | 898 |
| Encasement 12" | 43  |

**WATER FITTING SCHEDULE**

| Station | Description            | Insertion Northing | Insertion Easting |
|---------|------------------------|--------------------|-------------------|
| 1+00.00 | 8" CONNECTION TEE      | 7033399.56         | 2479460.757       |
| 1+53.93 | 8" GATE VALVE          | 7033345.635        | 2479461.185       |
| 3+54.97 | SERVICE TEE            | 7033144.595        | 2479462.782       |
| 4+31.19 | 8" COMBINATION BEND    | 7033068.38         | 2479463.385       |
| 4+37.66 | 8" COMBINATION BEND    | 7033063.848        | 2479468.001       |
| 4+57.39 | 8" 45° VERTICAL BEND   | 7033064.011        | 2479487.73        |
| 4+60.42 | 8" 45° VERTICAL BEND   | 7033064.045        | 2479490.754       |
| 7+42.64 | 8" GATE VALVE          | 7033066.36         | 2479772.968       |
| 7+71.13 | 2" FLUSHING TAP        | 7033066.613        | 2479801.458       |
| 9+59.69 | 8" 45° HORIZONTAL BEND | 7033068.176        | 2479990.007       |
| 9+67.01 | 8" 45° HORIZONTAL BEND | 7033073.397        | 2479995.143       |
| 9+95.62 | 8" GATE VALVE          | 7033073.621        | 2480023.753       |
| 9+97.62 | 8" CONNECTION TEE      | 7033073.651        | 2480025.752       |

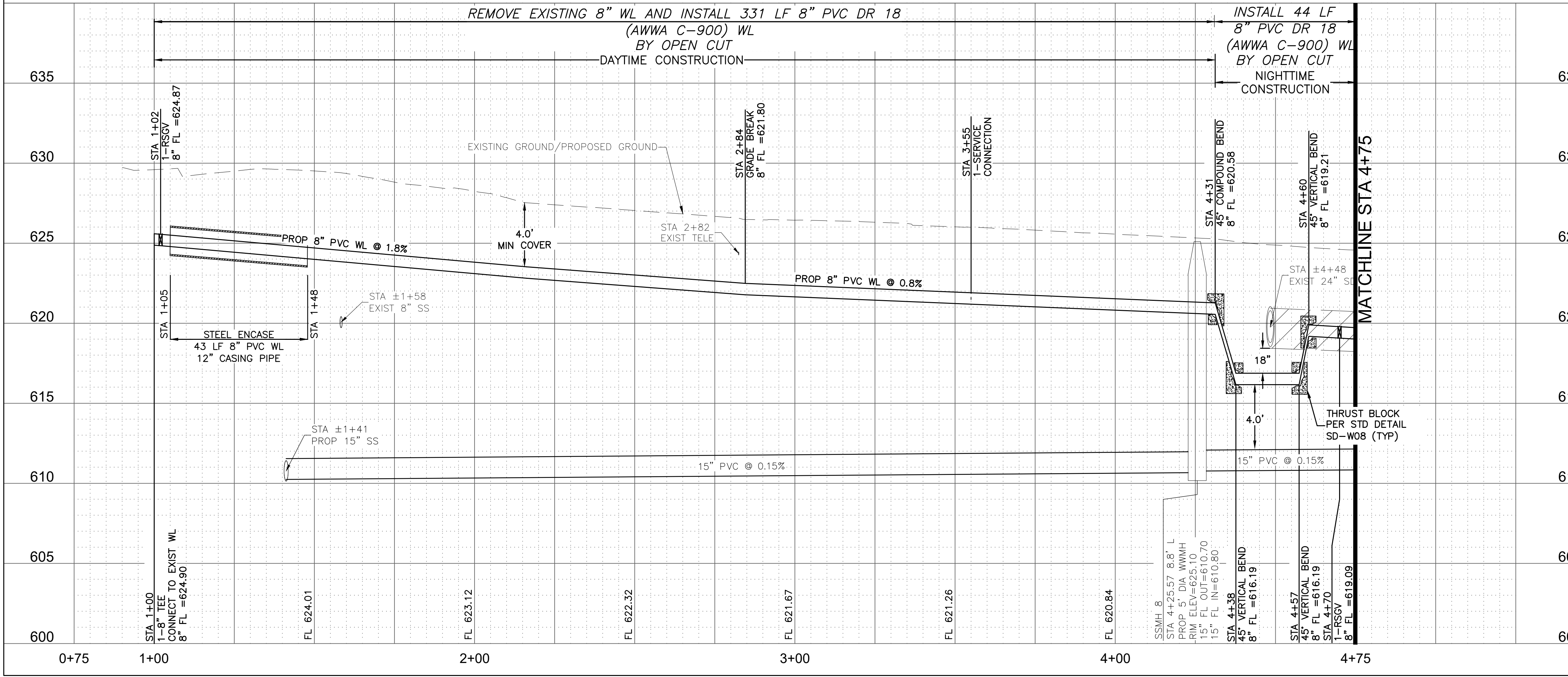
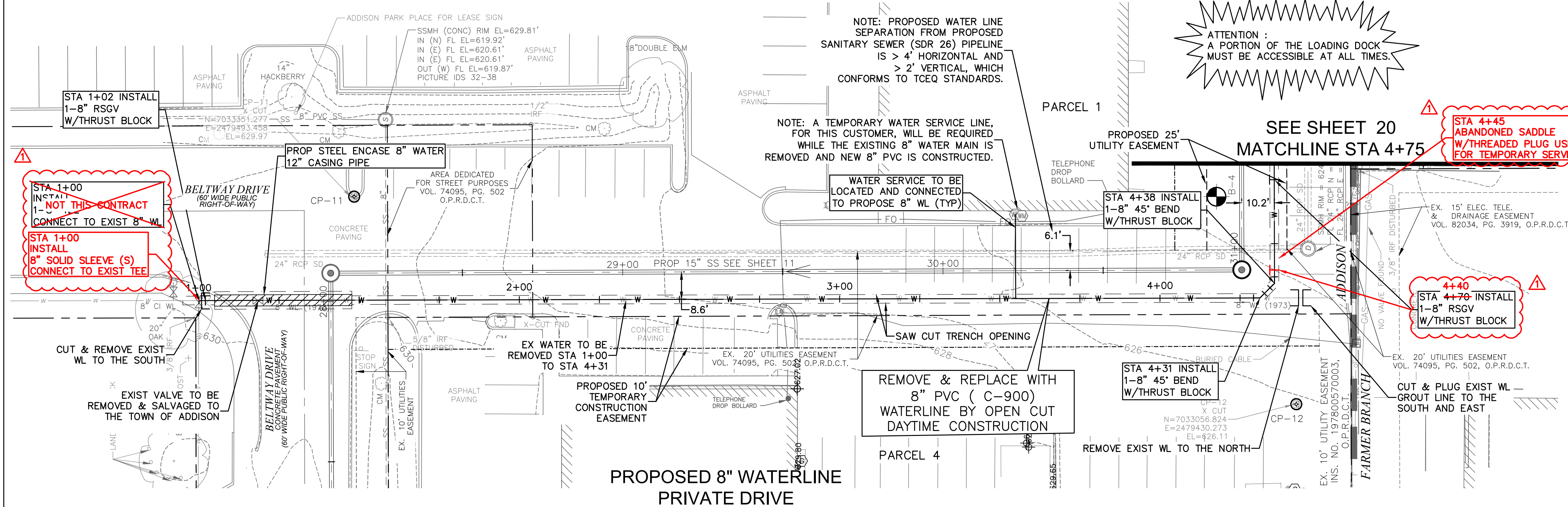
**CONSTRUCT 8" PVC DR 18 WATER MAIN**  
 EXISTING 8" WATER TO BE REMOVED & REPLACED  
 STA 1+00-4+31

THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT, MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS, THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER, CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWINGS ARE ON FILE AT THE OFFICES OF THE TOWN OF ADDISON, WM BART HINES, P.E. No. 49126  
 DATE 4/26/2021



ATTENTION : THE CONTRACTOR SHALL NOT DO ANY WORK OR CONSTRUCTION IN THE FARMER'S BRANCH CITY LIMITS. PLEASE CONTACT THE TOWN OF ADDISON STAFF IF THERE IS ANY QUESTION REGARDING WORK THAT IMPACTS IN THE FARMER'S BRANCH CITY LIMITS.

SPECIAL NOTE:  
 STA 1+00 TO 9+98 SAW CUT PAVEMENT PER WATER MAIN EMBEDMENT DETAIL SHEET 22



CONTROL CP-11 X CUT N=7033351.277 E=2479493.458 EL=629.97  
 CONTROL CP-12 X CUT N=7033056.824 E=2479430.273 EL=626.11  
 SURVEY CONTROL CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL

NOTE: ALL COORDINATES ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE, NAD 83. ALL DISTANCES AND COORDINATES ARE EXPRESSED IN US SURVEY FEET. ALL DISTANCES AND COORDINATES ARE SURFACE AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SURFACE FACTOR OF 0.9998496003.

FLOODPLAIN NOTE: THE ENTIRE PROJECT IS LOCATED WITHIN ZONE 'X' (AREA OF MINIMAL FLOODING) PER FEMA FIRM MAP 48113C0180K, EFFECTIVE 07/07/2014.

THE LOCATION AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. IT IS CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY LOCATION, DEPTH AND DIMENSION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

WARNING! UNDERGROUND UTILITIES IN AREA OF CONSTRUCTION. CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATION IN THIS AREA.

- PUBLIC WORKS & ENGINEERING SERVICES 972-450-2871
- TEXAS ONE CALL/DIG TESS 1-811-344-8377
- ONCOR 1-888-313-6862
- AT&T 1-800-331-0500
- SPECTRUM/CHARTER COMMUNICATIONS 1-888-438-2427
- ATMOS ENERGY 1-888-286-6700

**RECORD DRAWING REVISION**      **WBH**      **04/26/21**

| REV. NO. | DESCRIPTION | CHK. BY | DATE |
|----------|-------------|---------|------|
|          |             |         |      |



**ADDISON, TEXAS  
 PUBLIC WORKS &  
 ENGINEERING SERVICES**

SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
 PROJECT NO. 513301

PLAN & PROFILE  
 WL STA 1+00-4+75

**DANNENBAUM**  
 ENGINEERING COMPANY - DALLAS, LLC  
 T.B.P.E. FIRM REGISTRATION #8996  
 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

DESIGNED BY: WBH      DATE: 1/3/2020

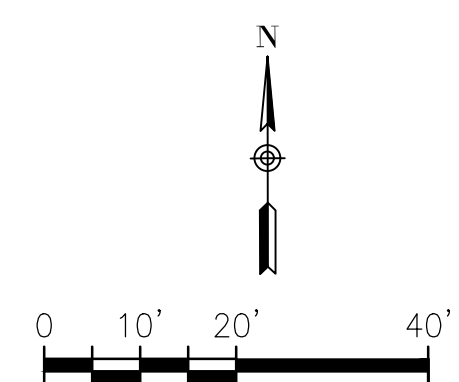
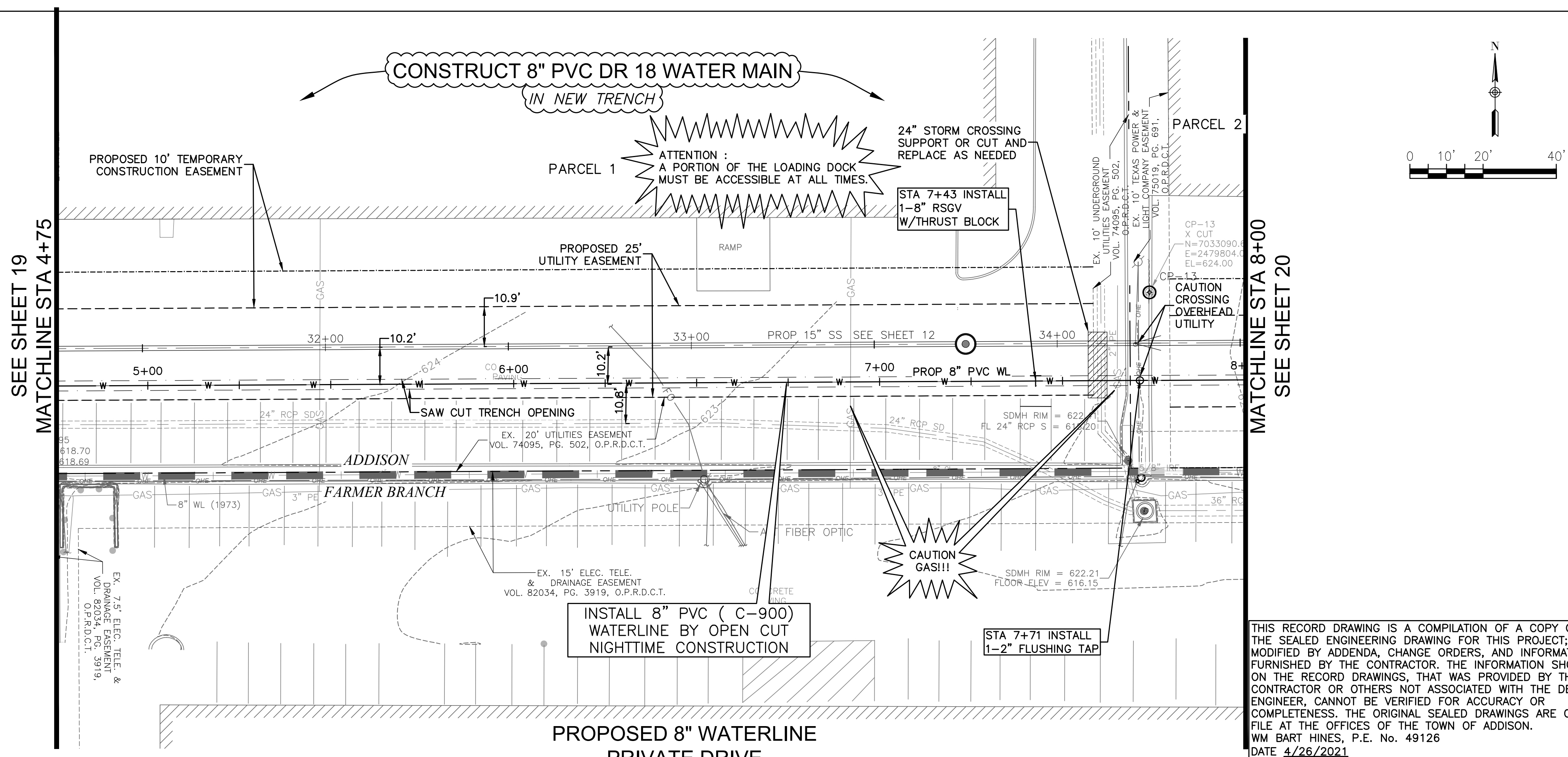
DRAWN BY: CMR      PROJECT NO: 513301

CHECKED BY: DEG      DRAWING SCALE: 1"=20'H; 1"=5'V

FILE: WATR\_PnP.dwg      SHEET NO: 19

G:\1220\5133-01 Addison Basin 1 Final Design\CAD\Sheets\...  
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 crystalread

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 PLOTTED: Apr 26, 2021 4:18pm  
 V:\REF\DEC\5-5133-01\_Exist\_Base.dwg  
 ..\civ\3d\5133-01-pipe\_network.dwg  
 crystalread



ATTENTION : THE CONTRACTOR SHALL NOT DO ANY WORK OR CONSTRUCTION IN THE FARMER'S BRANCH CITY LIMITS. PLEASE CONTACT THE TOWN OF ADDISON STAFF IF THERE IS ANY QUESTION REGARDING WORK THAT IMPACTS IN THE FARMERS BRANCH CITY LIMITS.

SPECIAL NOTE:  
 STA 1+00 TO 9+98 SAW CUT PAVEMENT PER WATER MAIN EMBEDMENT DETAIL SHEET 22

CONTROL  
 CP-13  
 X CUT  
 N=7033090.664  
 E=2479804.016  
 EL=624.00

SURVEY CONTROL  
 CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL

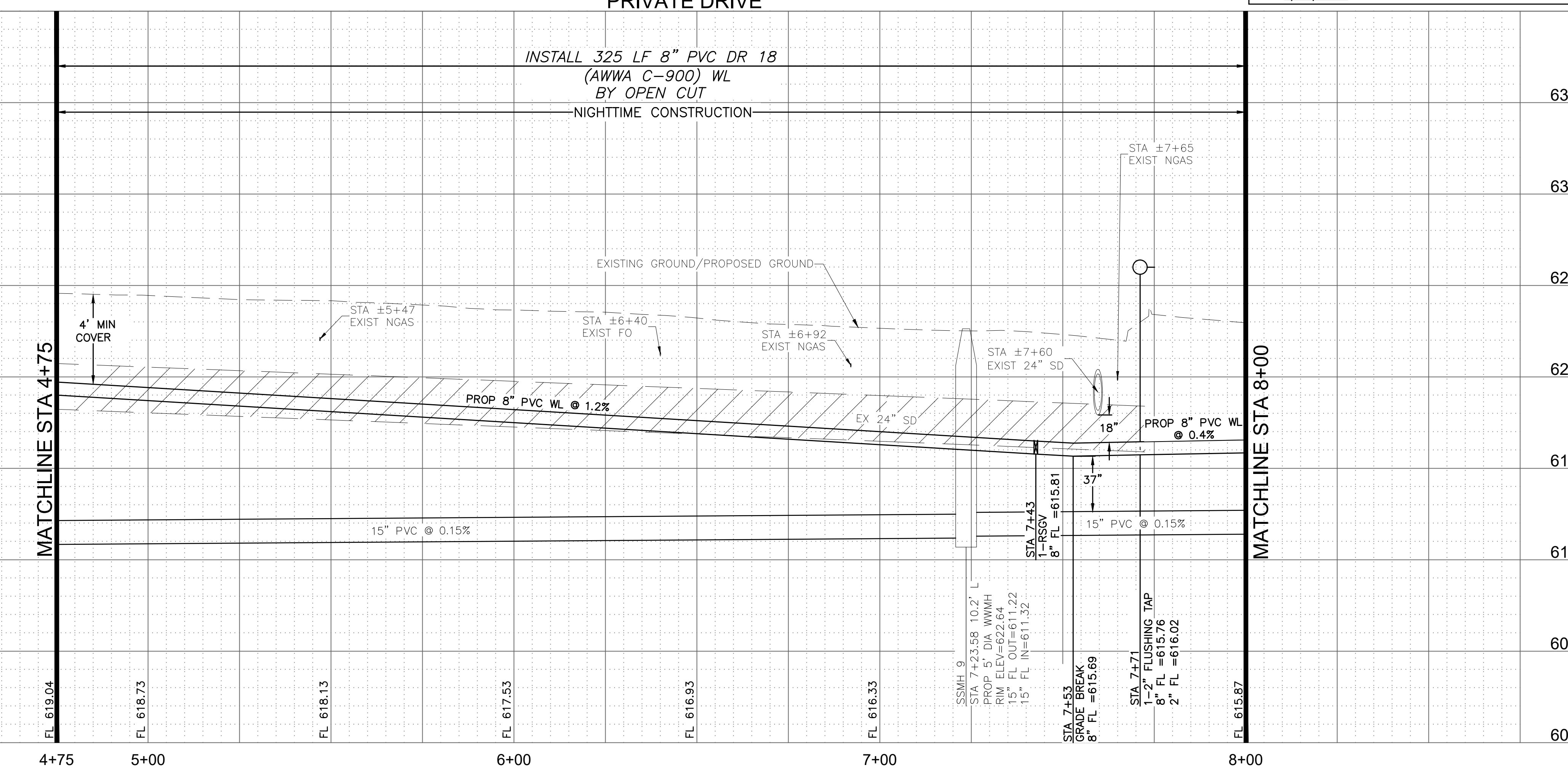
NOTE: ALL COORDINATES ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE, NAD 83. ALL DISTANCES AND COORDINATES ARE EXPRESSED IN US SURVEY FEET. ALL DISTANCES AND COORDINATES ARE SURFACE AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SURFACE FACTOR OF 0.9998496003.

FLOODPLAIN NOTE: THE ENTIRE PROJECT IS LOCATED WITHIN ZONE 'X' (AREA OF MINIMAL FLOODING) PER FEMA FIRM MAP 48113C0180K, EFFECTIVE 07/07/2014.

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WARNING! UNDERGROUND UTILITIES IN AREA OF CONSTRUCTION. CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATION IN THIS AREA.

|                                     |                |
|-------------------------------------|----------------|
| PUBLIC WORKS & ENGINEERING SERVICES | 972-450-2871   |
| TEXAS ONE CALL/DIG TESS             | 1-811-344-8377 |
| ONCOR                               | 1-888-313-6862 |
| AT&T                                | 1-800-331-0500 |
| SPECTRUM/CHARTER COMMUNICATIONS     | 1-888-438-2427 |
| ATMOS ENERGY                        | 1-888-286-6700 |



| REV. NO. | DESCRIPTION | CHK. BY | DATE |
|----------|-------------|---------|------|
|          |             |         |      |



ADDISON, TEXAS  
 PUBLIC WORKS &  
 ENGINEERING SERVICES

SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
 PROJECT NO. 513301

PLAN & PROFILE  
 WL STA4+75-8+00

**DANNENBAUM**  
 ENGINEERING COMPANY - DALLAS, LLC  
 T.B.P.E. FIRM REGISTRATION #8996  
 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

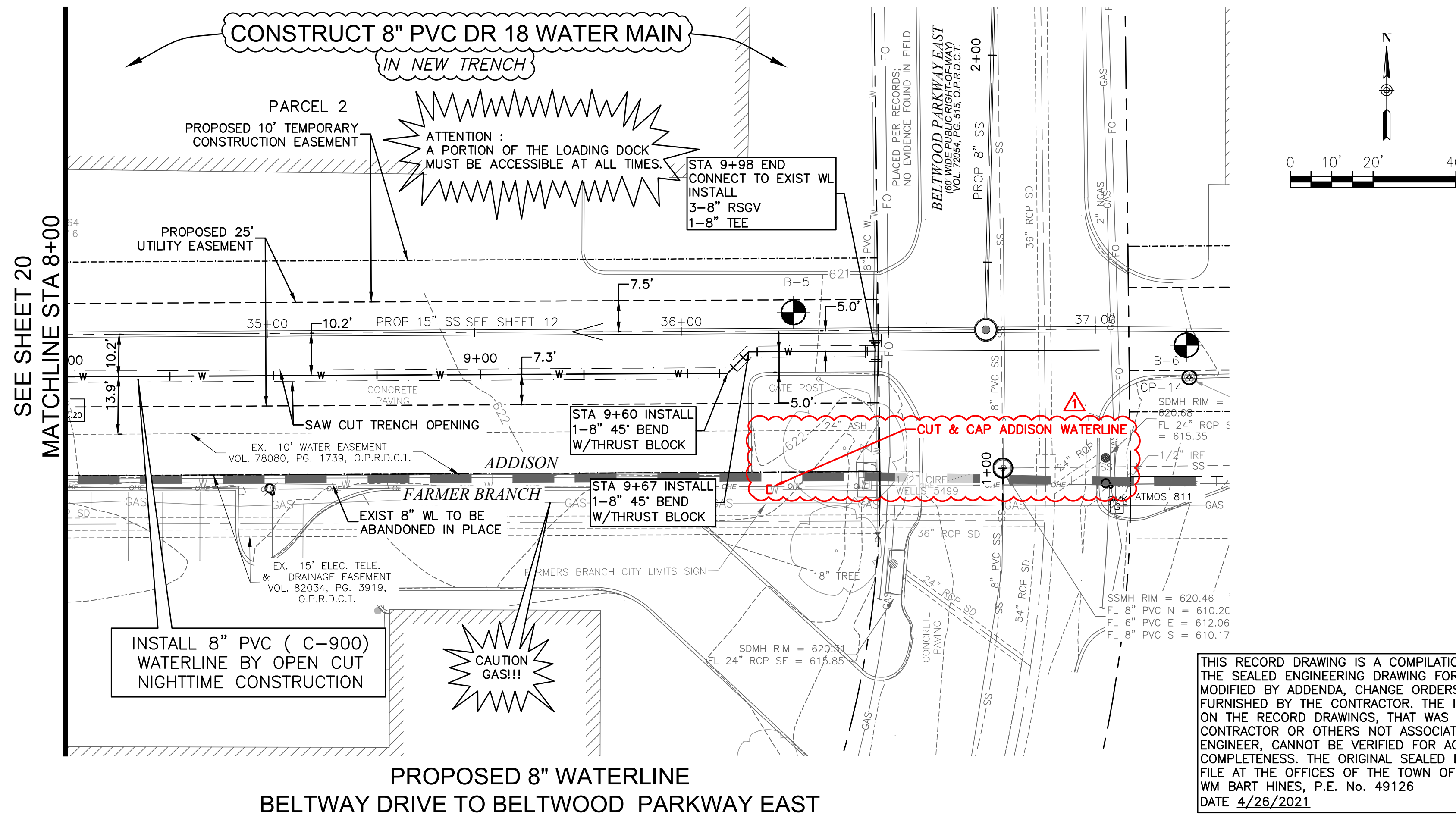
DESIGNED BY: WBJ DATE: 4/26/2021

DRAWN BY: CMR PROJECT NO: 513301

CHECKED BY: DEG DRAWING SCALE: 1"=20'H; 1"=5'V

FILE: WATR\_PnP.dwg SHEET NO: 20

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 PLOTTED: Apr 26, 2021 - 4:23pm  
 ..\c:\w\3d\5133-01-pipe\_network.dwg  
 crystalread



PROPOSED 8" WATERLINE  
 BELTWAY DRIVE TO BELTWOOD PARKWAY EAST

THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT, MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS, THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER, CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWINGS ARE ON FILE AT THE OFFICES OF THE TOWN OF ADDISON.  
 WM BART HINES, P.E. No. 49126  
 DATE 4/26/2021

ATTENTION :  
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SPECIAL NOTE:  
 STA 1+00 TO 9+98 SAW CUT PAVEMENT PER WATER MAIN EMBEDMENT DETAIL SHEET 22

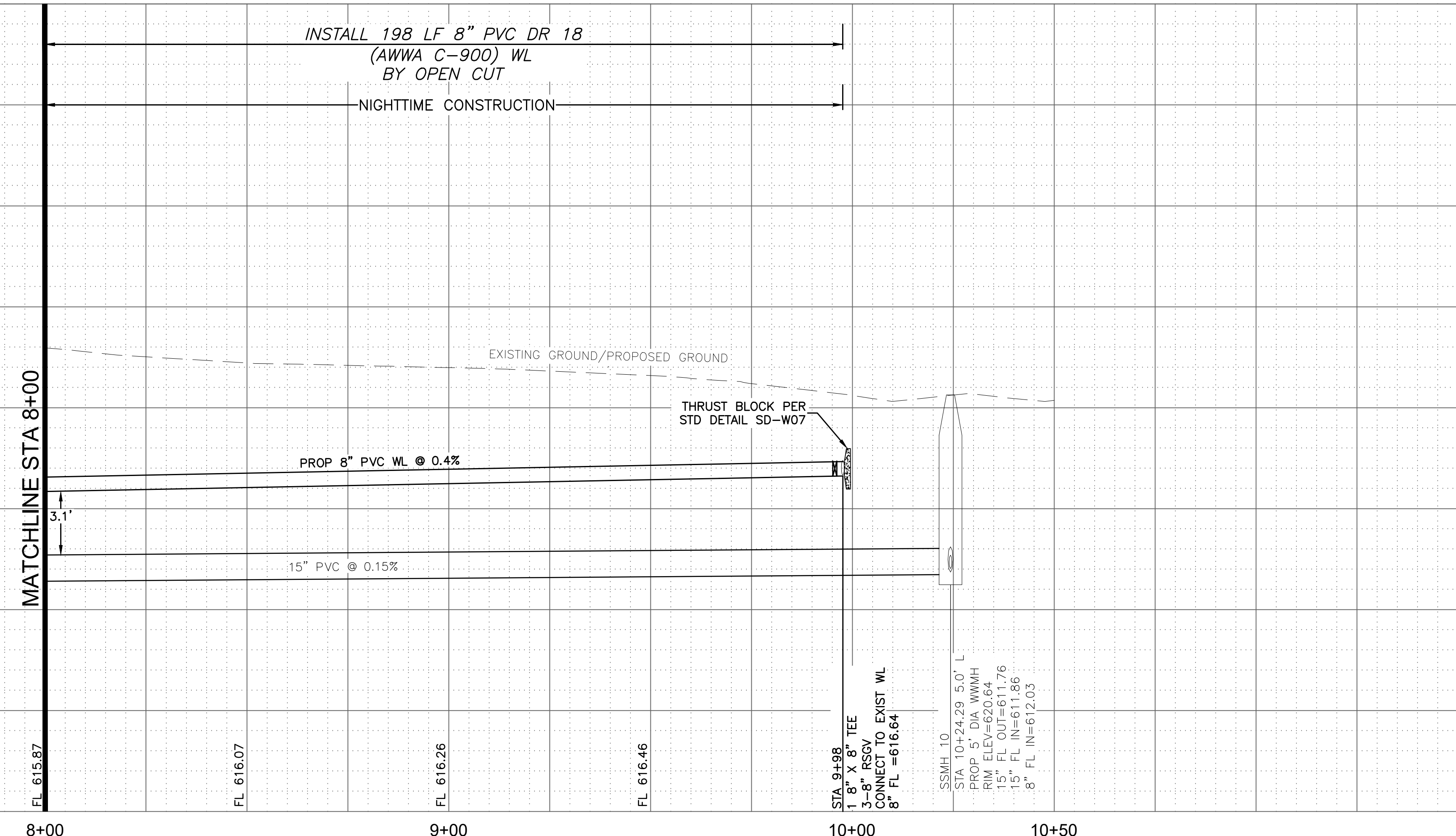
CONTROL  
 CP-14  
 X CUT  
 N=7033067.530  
 E=2480101.530  
 EL=621.28  
 SURVEY CONTROL  
 CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL  
 NOTE: ALL COORDINATES ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE, NAD 83. ALL DISTANCES AND COORDINATES ARE EXPRESSED IN US SURVEY FEET. ALL DISTANCES AND COORDINATES ARE SURFACE AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SURFACE FACTOR OF 0.9998496003.

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- |                                     |                |
|-------------------------------------|----------------|
| PUBLIC WORKS & ENGINEERING SERVICES | 972-450-2871   |
| TEXAS ONE CALL/DIG TESS             | 1-811-344-8377 |
| ONCOR                               | 1-888-313-6862 |
| AT&T                                | 1-800-331-0500 |
| SPECTRUM/CHARTER COMMUNICATIONS     | 1-888-438-2427 |
| ATMOS ENERGY                        | 1-888-286-6700 |



| REV. NO. | DESCRIPTION             | CHK. BY | DATE     |
|----------|-------------------------|---------|----------|
| 1        | RECORD DRAWING REVISION | WBH     | 04/26/21 |



ADDISON, TEXAS  
 PUBLIC WORKS &  
 ENGINEERING SERVICES

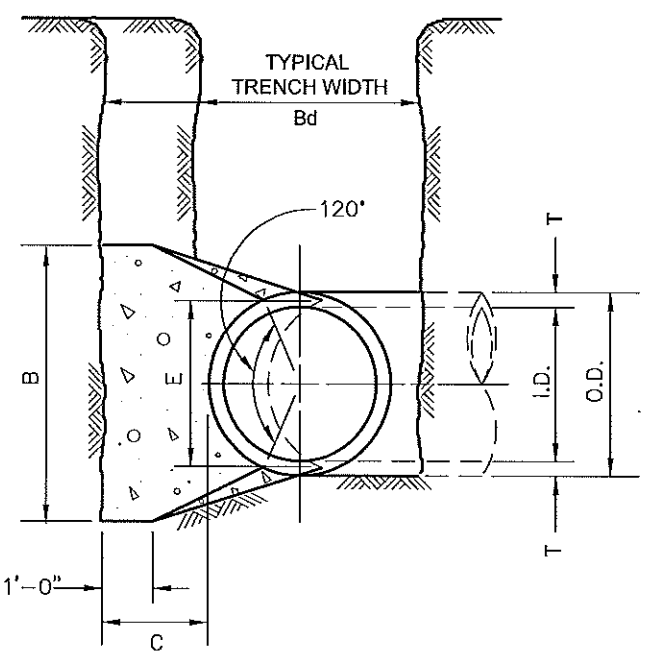
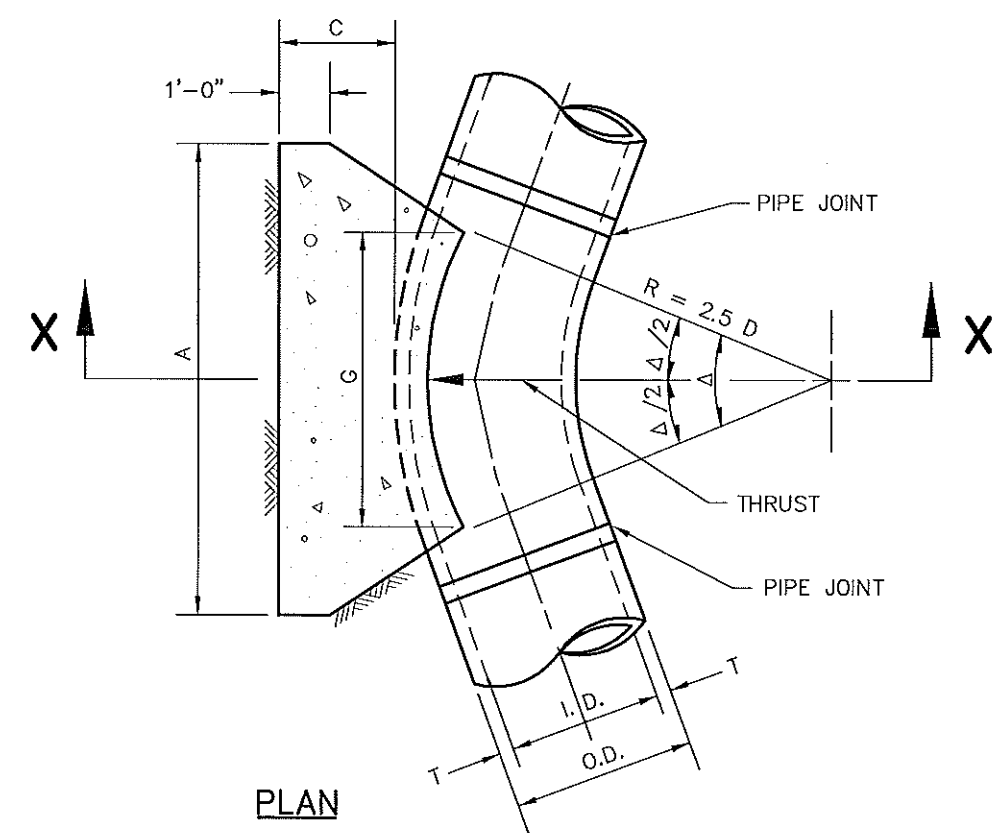
SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
 PROJECT NO. 513301

PLAN & PROFILE  
 WL STA 8+00-END

**DANNENBAUM**  
 ENGINEERING COMPANY - DALLAS, LLC  
 T.B.P.E. FIRM REGISTRATION #8996  
 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

|                  |                                |
|------------------|--------------------------------|
| DESIGNED BY: WBH | DATE: 4/26/2021                |
| DRAWN BY: CMR    | PROJECT NO: 513301             |
| CHECKED BY: DEG  | DRAWING SCALE: 1"=20'H; 1"=5'V |





**Addison!**  
PUBLIC WORKS DEPARTMENT

HORIZONTAL THRUST BLOCK  
AT PIPE BEND

STANDARD CONSTRUCTION DETAILS  
WATER  
DATE: AUGUST, 2010 REV DATE: SHEET: SD-W04

| I.D. (IN.) | T (IN.) | Δ = 11.25° (FT.) | Δ = 22.50° (FT.) | E (FT.) |
|------------|---------|------------------|------------------|---------|
| 4,6,8      | 0.4     | 1.5              | 1.5              | 0.9     |
| 10,12      | 0.5     | 1.5              | 1.5              | 1.2     |
| 16,18      | 0.6     | 1.5              | 1.5              | 1.6     |
| 20         | 0.7     | 1.5              | 1.5              | 1.8     |
| 24         | 0.9     | 1.5              | 1.5              | 2.1     |
| 30         | 2.9     | 1.5              | 1.9              | 2.6     |
| 36         | 4.5     | 1.5              | 2.3              | 3.3     |
| 42         | 5.0     | 1.8              | 2.6              | 3.8     |
| 48         | 5.5     | 2.0              | 3.0              | 4.3     |
| 54         | 6.0     | 2.3              | 3.4              | 4.8     |
| 60         | 6.5     | 2.5              | 3.8              | 5.3     |
| 66         | 6.8     | 2.8              | 4.1              | 5.7     |
| 72         | 7.5     | 3.0              | 4.5              | 6.3     |
| 78         | 7.5     | 3.3              | 4.9              | 6.7     |
| 84         | 8.0     | 3.5              | 5.3              | 7.2     |
| 90         | 8.5     | 3.8              | 5.6              | 7.7     |
| 96         | 9.0     | 4.0              | 6.0              | 8.2     |

| I.D. (IN.) | Δ = 11.25°    |         |         |             |         |         | Δ = 22.50° |               |         |         |             |      |      |      |      |      |
|------------|---------------|---------|---------|-------------|---------|---------|------------|---------------|---------|---------|-------------|------|------|------|------|------|
|            | EARTH         |         |         | ROCK        |         |         | EARTH      |               |         | ROCK    |             |      |      |      |      |      |
| G (FT.)    | THRUST (TONS) | A (FT.) | B (FT.) | VOL. (C.Y.) | A (FT.) | B (FT.) | G (FT.)    | THRUST (TONS) | A (FT.) | B (FT.) | VOL. (C.Y.) |      |      |      |      |      |
| 4,6,8      | 0.4           | 1.0     | 1.0     | 1.5         | 0.1     | 1.0     | 1.0        | 0.1           | 4,6,8   | 0.8     | 2.0         | 1.5  | 0.1  | 1.0  | 1.0  | 0.1  |
| 10,12      | 0.6           | 2.2     | 1.5     | 1.5         | 0.1     | 1.0     | 1.5        | 0.1           | 10,12   | 1.1     | 4.4         | 2.0  | 2.5  | 0.3  | 1.5  | 0.1  |
| 16,18      | 0.8           | 5.0     | 2.0     | 2.5         | 0.3     | 1.5     | 2.0        | 0.2           | 16,18   | 1.6     | 9.9         | 3.0  | 3.5  | 0.6  | 2.0  | 0.3  |
| 20         | 0.9           | 8.2     | 2.0     | 3.5         | 0.4     | 1.5     | 3.0        | 0.3           | 20      | 1.8     | 12.3        | 3.5  | 3.5  | 0.7  | 2.0  | 0.4  |
| 24         | 1.1           | 8.9     | 3.0     | 3.5         | 0.5     | 1.5     | 3.0        | 0.3           | 24      | 2.2     | 17.7        | 4.0  | 4.5  | 1.0  | 3.0  | 0.5  |
| 30         | 1.4           | 10.4    | 3.0     | 3.5         | 0.6     | 2.0     | 3.5        | 0.4           | 30      | 2.7     | 20.7        | 5.0  | 4.5  | 1.5  | 3.0  | 0.8  |
| 36         | 1.7           | 15.0    | 3.5     | 4.5         | 0.9     | 2.0     | 4.0        | 0.5           | 36      | 3.3     | 28.8        | 5.5  | 5.5  | 2.3  | 4.0  | 1.3  |
| 42         | 1.9           | 20.4    | 4.5     | 5.0         | 1.5     | 2.5     | 5.0        | 0.8           | 42      | 3.8     | 40.5        | 7.0  | 6.0  | 3.9  | 4.5  | 2.1  |
| 48         | 2.2           | 26.6    | 4.5     | 6.0         | 2.0     | 2.5     | 6.0        | 1.1           | 48      | 4.4     | 52.9        | 8.0  | 7.0  | 5.7  | 4.5  | 2.8  |
| 54         | 2.5           | 33.7    | 6.0     | 6.0         | 3.0     | 3.0     | 6.0        | 1.4           | 54      | 4.9     | 67.0        | 9.0  | 8.0  | 8.0  | 6.0  | 4.1  |
| 60         | 2.7           | 41.6    | 6.0     | 7.0         | 3.8     | 3.0     | 7.0        | 1.8           | 60      | 5.5     | 82.7        | 9.5  | 9.0  | 10.6 | 6.0  | 5.3  |
| 66         | 3.0           | 50.3    | 6.5     | 8.0         | 5.1     | 3.5     | 8.0        | 2.7           | 66      | 6.0     | 100.1       | 10.5 | 10.0 | 14.1 | 6.5  | 7.2  |
| 72         | 3.3           | 59.9    | 7.5     | 8.0         | 6.3     | 4.0     | 8.0        | 3.3           | 72      | 6.6     | 119.1       | 11.0 | 11.0 | 17.6 | 7.5  | 8.0  |
| 78         | 3.6           | 70.2    | 8.0     | 9.0         | 8.1     | 4.0     | 9.0        | 3.9           | 78      | 7.1     | 139.8       | 12.0 | 12.0 | 22.9 | 8.0  | 9.0  |
| 84         | 3.8           | 81.5    | 8.5     | 10.0        | 10.3    | 4.5     | 10.0       | 5.3           | 84      | 7.6     | 162.1       | 13.0 | 12.5 | 27.2 | 8.5  | 10.0 |
| 90         | 4.1           | 93.5    | 9.5     | 10.0        | 12.2    | 5.0     | 10.0       | 6.3           | 90      | 8.2     | 186.1       | 14.0 | 13.5 | 33.7 | 9.5  | 10.0 |
| 96         | 4.4           | 106.4   | 10.0    | 11.0        | 15.0    | 5.0     | 11.0       | 7.4           | 96      | 8.7     | 211.7       | 15.0 | 14.5 | 41.2 | 10.0 | 11.0 |

**Addison!**  
PUBLIC WORKS DEPARTMENT

HORIZONTAL THRUST BLOCK  
DIMENSIONS & QUANTITIES

STANDARD CONSTRUCTION DETAILS  
WATER  
DATE: AUGUST, 2010 REV DATE: SHEET: SD-W05

| I.D. (IN.) | Δ = 30°       |         |         |             |         |         | Δ = 45° |               |         |         |             |      |      |      |      |      |
|------------|---------------|---------|---------|-------------|---------|---------|---------|---------------|---------|---------|-------------|------|------|------|------|------|
|            | EARTH         |         |         | ROCK        |         |         | EARTH   |               |         | ROCK    |             |      |      |      |      |      |
| G (FT.)    | THRUST (TONS) | A (FT.) | B (FT.) | VOL. (C.Y.) | A (FT.) | B (FT.) | G (FT.) | THRUST (TONS) | A (FT.) | B (FT.) | VOL. (C.Y.) |      |      |      |      |      |
| 4,6,8      | 1.0           | 2.6     | 2.0     | 1.5         | 0.2     | 1.0     | 1.5     | 0.1           | 4,6,8   | 1.5     | 3.9         | 2.0  | 2.0  | 0.2  | 1.5  | 0.1  |
| 10,12      | 1.5           | 5.9     | 2.5     | 2.5         | 0.3     | 2.0     | 1.5     | 0.2           | 10,12   | 2.2     | 8.7         | 3.5  | 2.5  | 0.5  | 2.0  | 0.3  |
| 16,18      | 2.2           | 13.2    | 3.5     | 4.0         | 0.8     | 2.5     | 3.0     | 0.4           | 16,18   | 3.2     | 19.5        | 4.5  | 4.5  | 1.2  | 3.0  | 0.6  |
| 20         | 2.4           | 16.3    | 4.5     | 4.0         | 1.0     | 3.0     | 3.0     | 0.5           | 20      | 3.6     | 24.1        | 5.5  | 4.5  | 1.5  | 3.5  | 0.7  |
| 24         | 2.9           | 23.4    | 6.0     | 4.0         | 1.4     | 3.5     | 3.5     | 0.7           | 24      | 4.3     | 34.6        | 8.0  | 4.5  | 2.3  | 4.5  | 1.1  |
| 30         | 3.6           | 27.5    | 6.5     | 5.0         | 1.9     | 3.5     | 4.0     | 0.9           | 30      | 5.4     | 40.6        | 8.5  | 5.0  | 3.2  | 5.5  | 1.6  |
| 36         | 4.4           | 39.5    | 7.0     | 6.0         | 3.4     | 4.5     | 4.5     | 1.6           | 36      | 6.5     | 58.5        | 10.0 | 6.0  | 5.3  | 6.5  | 2.8  |
| 42         | 5.1           | 53.8    | 8.0     | 7.0         | 5.1     | 5.5     | 5.0     | 2.5           | 42      | 7.5     | 79.6        | 11.5 | 7.0  | 8.1  | 8.0  | 4.2  |
| 48         | 5.8           | 70.3    | 9.0     | 8.0         | 7.4     | 6.0     | 6.0     | 3.7           | 48      | 8.6     | 104.0       | 13.0 | 8.0  | 11.9 | 9.0  | 6.3  |
| 54         | 6.5           | 89.0    | 10.0    | 9.0         | 10.3    | 7.0     | 6.5     | 5.3           | 54      | 9.7     | 131.5       | 15.0 | 9.0  | 17.1 | 10.5 | 8.9  |
| 60         | 7.3           | 110.0   | 11.0    | 10.0        | 13.9    | 7.5     | 7.5     | 7.3           | 60      | 10.7    | 162.4       | 16.5 | 10.0 | 23.1 | 11.0 | 12.0 |
| 66         | 8.0           | 132.9   | 12.5    | 11.0        | 18.9    | 8.5     | 8.0     | 9.6           | 66      | 11.8    | 196.5       | 18.0 | 11.0 | 30.1 | 12.0 | 15.2 |
| 72         | 8.7           | 158.2   | 13.5    | 12.0        | 24.0    | 9.0     | 9.0     | 12.3          | 72      | 12.9    | 233.9       | 19.5 | 12.0 | 38.6 | 14.0 | 20.7 |
| 78         | 9.4           | 185.6   | 14.5    | 13.0        | 30.0    | 10.0    | 9.5     | 15.6          | 78      | 13.9    | 274.5       | 21.5 | 13.0 | 49.8 | 14.5 | 25.9 |
| 84         | 10.1          | 215.3   | 15.5    | 14.0        | 37.1    | 10.5    | 10.5    | 19.5          | 84      | 15.0    | 318.4       | 23.0 | 14.0 | 61.2 | 15.5 | 32.6 |
| 90         | 10.9          | 247.1   | 16.5    | 15.0        | 45.0    | 11.5    | 11.0    | 23.9          | 90      | 16.1    | 365.6       | 24.5 | 15.0 | 74.5 | 17.5 | 39.6 |
| 96         | 11.6          | 281.2   | 18.0    | 16.0        | 55.5    | 12.5    | 11.5    | 28.9          | 96      | 17.1    | 415.6       | 26.0 | 16.0 | 89.5 | 18.5 | 48.5 |

| I.D. (IN.) | Δ = 67.50°    |         |         |             |         |         | Δ = 90° |               |         |         |             |      |      |       |      |      |
|------------|---------------|---------|---------|-------------|---------|---------|---------|---------------|---------|---------|-------------|------|------|-------|------|------|
|            | EARTH         |         |         | ROCK        |         |         | EARTH   |               |         | ROCK    |             |      |      |       |      |      |
| G (FT.)    | THRUST (TONS) | A (FT.) | B (FT.) | VOL. (C.Y.) | A (FT.) | B (FT.) | G (FT.) | THRUST (TONS) | A (FT.) | B (FT.) | VOL. (C.Y.) |      |      |       |      |      |
| 4,6,8      | 2.1           | 5.6     | 3.0     | 2.0         | 0.3     | 2.0     | 1.5     | 0.2           | 4,6,8   | 2.7     | 7.1         | 5.0  | 1.5  | 0.4   | 2.0  | 0.2  |
| 10,12      | 3.1           | 12.6    | 5.5     | 2.5         | 0.8     | 3.5     | 2.0     | 0.4           | 10,12   | 4.0     | 16.0        | 6.5  | 2.5  | 1.0   | 3.5  | 0.5  |
| 16,18      | 4.7           | 28.3    | 7.5     | 4.0         | 1.9     | 5.5     | 3.0     | 0.9           | 16,18   | 6.0     | 38.0        | 9.0  | 4.0  | 2.4   | 4.5  | 1.0  |
| 20         | 5.2           | 34.9    | 9.0     | 4.0         | 2.3     | 5.5     | 3.5     | 1.2           | 20      | 6.6     | 44.4        | 10.0 | 4.5  | 3.1   | 6.0  | 1.5  |
| 24         | 6.2           | 50.3    | 11.5    | 4.5         | 3.5     | 6.5     | 4.0     | 1.6           | 24      | 7.9     | 64.0        | 14.5 | 4.5  | 5.0   | 8.0  | 2.1  |
| 30         | 7.8           | 58.9    | 12.0    | 5.0         | 4.8     | 7.5     | 4.0     | 2.2           | 30      | 9.9     | 75.0        | 15.0 | 5.0  | 6.7   | 10.0 | 4.0  |
| 36         | 9.4           | 84.9    | 14.5    | 6.0         | 8.2     | 9.5     | 4.5     | 3.8           | 36      | 11.9    | 108.0       | 18.0 | 6.0  | 11.4  | 12.0 | 4.5  |
| 42         | 10.9          | 115.5   | 17.0    | 7.0         | 12.8    | 11.0    | 5.5     | 6.3           | 42      | 13.9    | 147.0       | 21.0 | 7.0  | 17.8  | 14.0 | 5.5  |
| 48         | 12.5          | 150.9   | 19.0    | 8.0         | 18.4    | 13.0    | 6.0     | 9.2           | 48      | 15.9    | 192.0       | 24.0 | 8.0  | 26.2  | 16.0 | 6.0  |
| 54         | 14.0          | 191.0   | 21.5    | 9.0         | 26.0    | 15.0    | 6.5     | 12.9          | 54      | 17.9    | 243.0       | 27.0 | 9.0  | 36.9  | 18.0 | 7.0  |
| 60         | 15.8          | 235.8   | 24.0    | 10.0        | 35.6    | 16.0    | 7.5     | 17.6          | 60      | 19.9    | 299.8       | 30.0 | 10.0 | 50.3  | 20.0 | 7.5  |
| 66         | 17.1          | 285.3   | 26.0    | 11.0        | 46.0    | 18.0    | 8.0     | 23.0          | 66      | 21.8    | 362.8       | 33.0 | 11.0 | 66.2  | 22.0 | 8.5  |
| 72         | 18.7          | 339.5   | 28.5    | 12.0        | 57.8    | 19.0    | 9.0     | 28.4          | 72      | 23.8    | 431.6       | 36.0 | 12.0 | 85.6  | 24.0 | 9.0  |
| 78         | 20.2          | 398.5   | 31.0    | 13.0        | 75.7    | 21.0    | 9.5     | 37.4          | 78      | 25.7    | 508.7       | 39.0 | 13.0 | 108.2 | 26.0 | 10.0 |
| 84         | 21.6          | 462.1   | 33.5    | 14.0        | 94.7    | 22.0    | 10.5    | 46.5          | 84      | 27.7    | 587.7       | 42.0 | 14.0 | 134.4 | 28.0 | 10.5 |
| 90         | 23.3          | 530.5   | 35.5    | 15.0        | 114.4   | 24.5    | 11.0    | 58.2          | 90      | 29.6    | 674.6       | 45.0 | 15.0 | 164.9 | 30.0 | 11.5 |
| 96         | 24.9          | 603.6   | 38.0    | 16.0        | 138.9   | 25.5    | 12.0    | 70.0          | 96      | 31.6    | 767.5       | 48.0 | 16.0 | 199.0 | 32.0 | 12.0 |

**Addison!**  
PUBLIC WORKS DEPARTMENT

HORIZONTAL THRUST BLOCK  
DIMENSIONS & QUANTITIES

STANDARD CONSTRUCTION DETAILS  
WATER  
DATE: AUGUST, 2010 REV DATE: SHEET: SD-W06

THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT; MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS, THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER, CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWINGS ARE ON FILE AT THE OFFICES OF THE TOWN OF ADDISON. WM BART HINES, P.E. No. 49126 DATE 4/26/2021

SURVEY CONTROL  
CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL  
NOTE: ALL COORDINATES ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE, NAD 83. ALL DISTANCES AND COORDINATES ARE EXPRESSED IN US SURVEY FEET. ALL DISTANCES AND COORDINATES ARE SURFACE AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SURFACE FACTOR OF 0.9998496003.

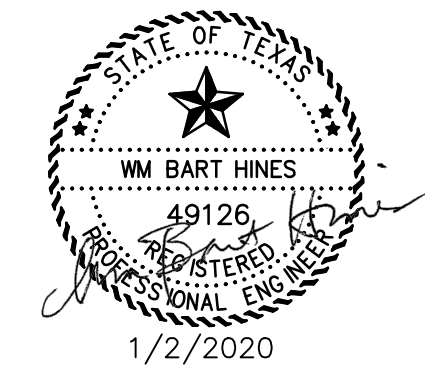
FLOODPLAIN NOTE: THE ENTIRE PROJECT IS LOCATED WITHIN ZONE 'X' (AREA OF MINIMAL FLOODING) PER FEMA FIRM MAP 48113C0180K, EFFECTIVE 07/07/2014.

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PUBLIC WORKS & ENGINEERING SERVICES 972-450-2871  
TEXAS ONE CALL/DIG TESS 1-811-344-8377  
ONCOR 1-888-313-6862  
AT&T 1-800-331-0500  
SPECTRUM/CHARTER COMMUNICATIONS 1-888-438-2427  
ATMOS ENERGY 1-888-286-6700

| REV. NO. | DESCRIPTION | CHK. BY | DATE |
|----------|-------------|---------|------|
|          |             |         |      |
|          |             |         |      |



ADDISON, TEXAS  
PUBLIC WORKS &  
ENGINEERING SERVICES

SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
PROJECT NO. 513301

WATER DETAILS (2 OF 3)

**DANNENBAUM**  
ENGINEERING COMPANY - DALLAS, LLC  
T.B.P.E. FIRM REGISTRATION #8996  
3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

DESIGNED BY: WBH DATE: 4/26/2021

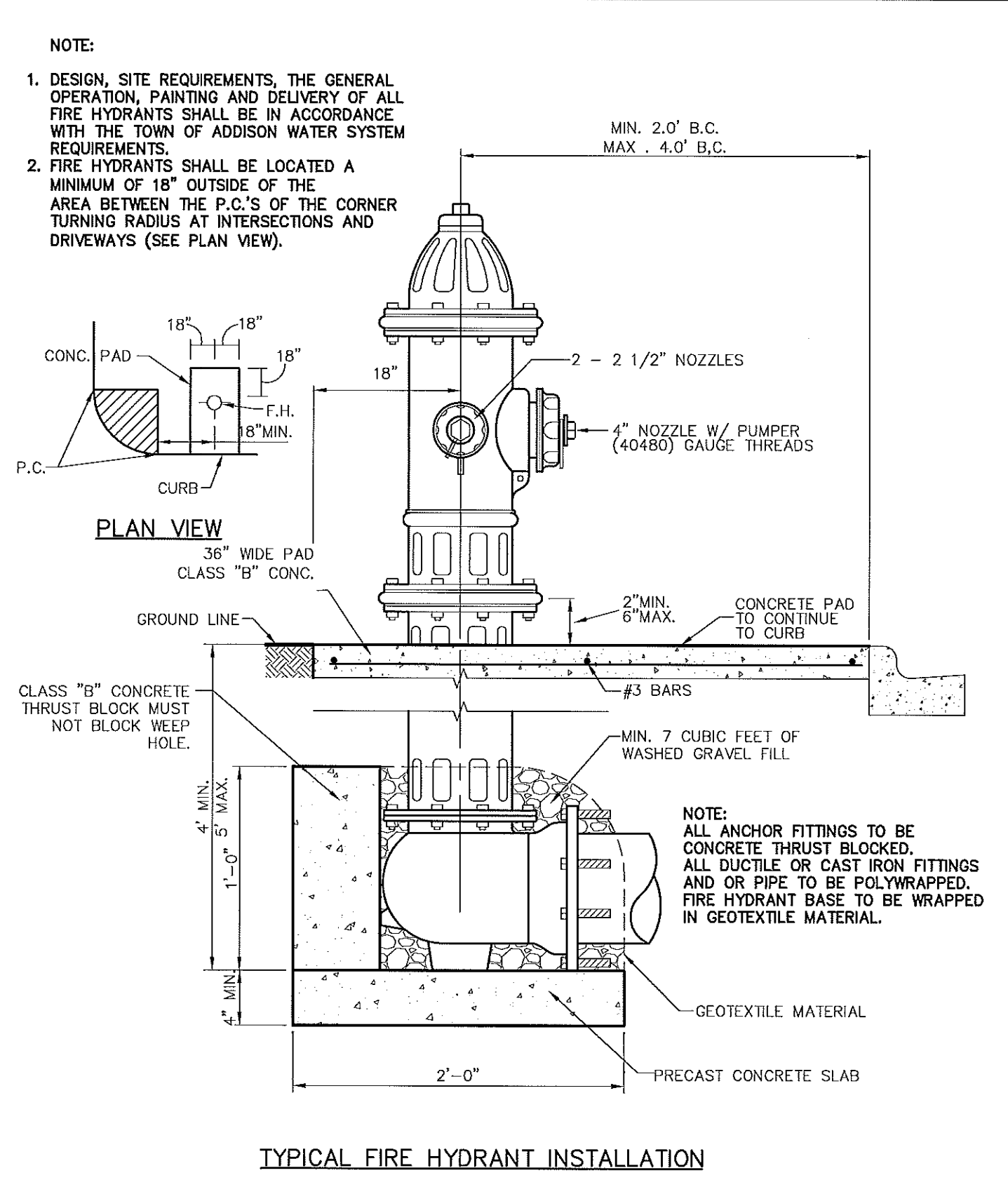
DRAWN BY: CMR PROJECT NO: 513301

CHECKED BY: DEG DRAWING SCALE: NTS

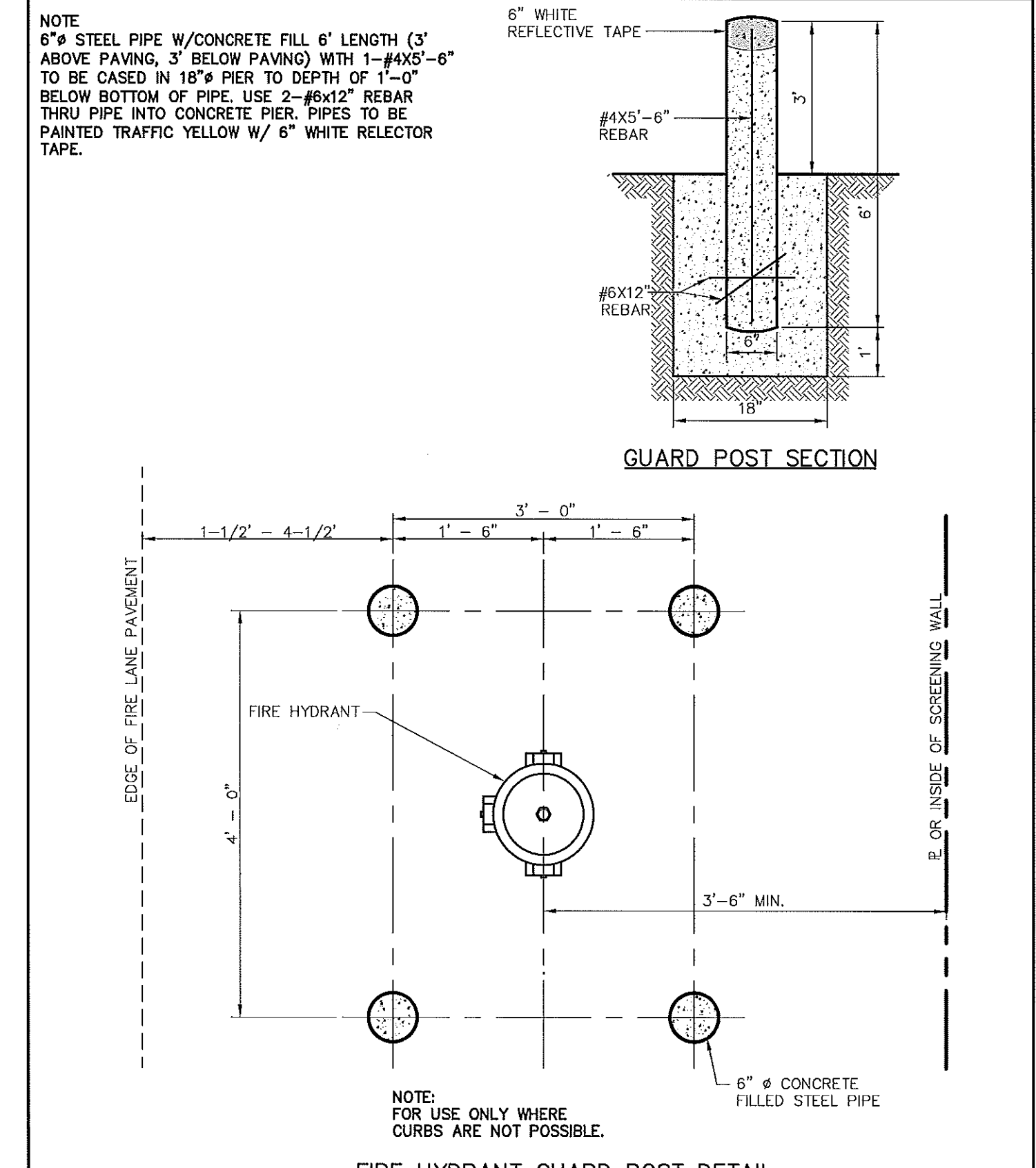
FILE: DETAILS\_WTR.dwg SHEET NO: 23

| I.D. (IN.) | THRUST (TONS) | EARTH   |         | ROCK        |         |             |
|------------|---------------|---------|---------|-------------|---------|-------------|
|            |               | C (FT.) | A (FT.) | VOL. (C.Y.) | A (FT.) | VOL. (C.Y.) |
| 4,6,8      | 5.1           | 1.5     | 2.5     | 0.3         | 2.0     | 0.2         |
| 10,12      | 11.3          | 1.5     | 3.5     | 0.6         | 2.5     | 0.3         |
| 16,18      | 25.5          | 2.0     | 5.5     | 1.6         | 4.0     | 0.9         |
| 20         | 31.5          | 2.0     | 6.0     | 1.9         | 4.0     | 0.9         |
| 24         | 45.2          | 2.5     | 7.0     | 3.1         | 5.0     | 1.7         |
| 30         | 53.0          | 3.0     | 7.5     | 4.1         | 5.5     | 2.4         |
| 36         | 76.3          | 4.0     | 9.0     | 7.3         | 6.5     | 4.2         |
| 42         | 104.0         | 4.5     | 10.5    | 11.0        | 7.5     | 6.2         |
| 48         | 136.0         | 5.0     | 12.0    | 15.6        | 8.5     | 8.7         |

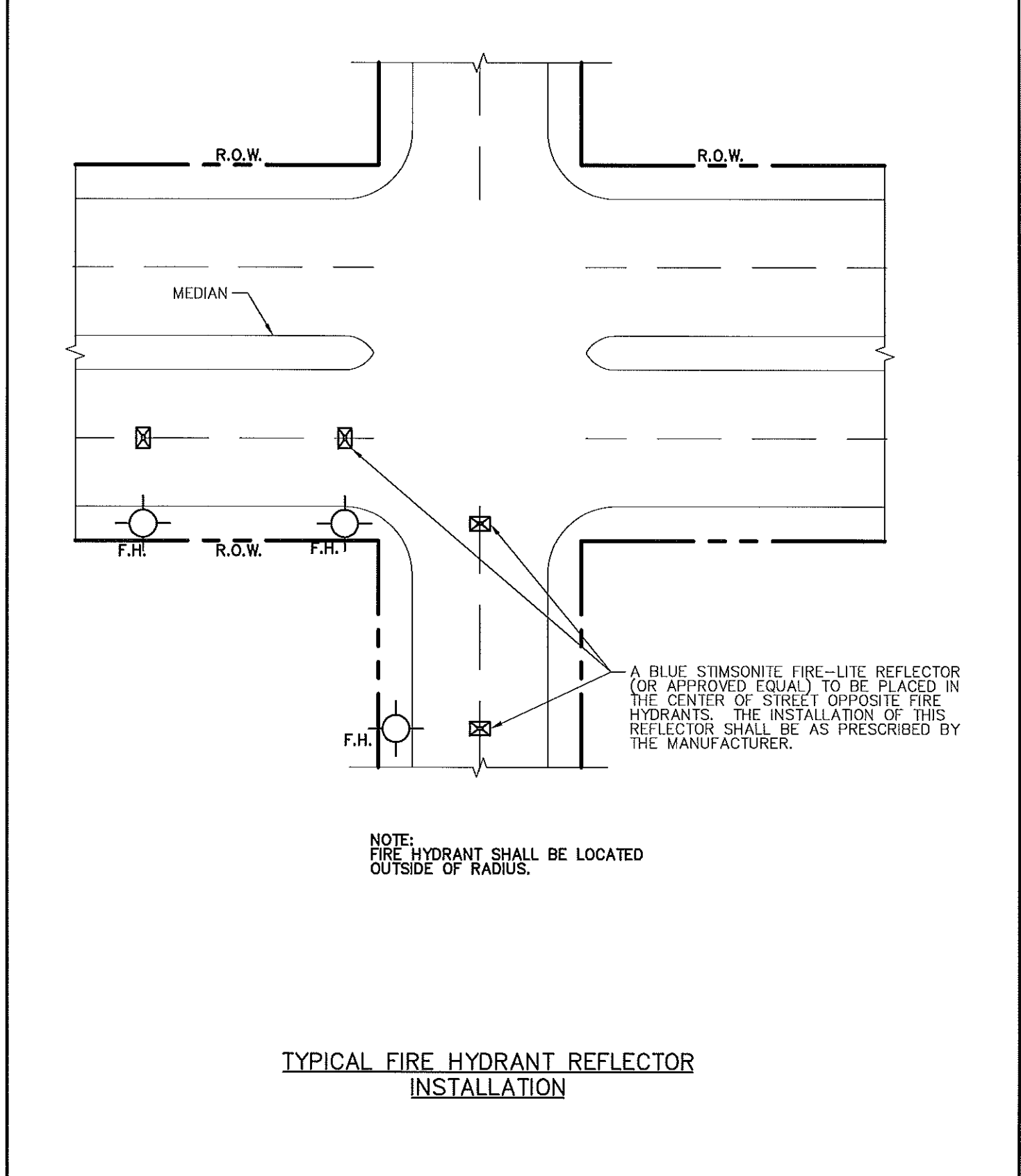
| I.D. (IN.) | THRUST (TONS) | C (FT.) | EARTH   |             | ROCK    |             |
|------------|---------------|---------|---------|-------------|---------|-------------|
|            |               |         | A (FT.) | VOL. (C.Y.) | A (FT.) | VOL. (C.Y.) |
| 54         | 172.0         | 5.5     | 13.5    | 21.4        |         |             |



|  |                                   |                                     |             |               |
|--|-----------------------------------|-------------------------------------|-------------|---------------|
| <b>Addison!</b><br>PUBLIC WORKS DEPARTMENT | TYPICAL FIRE HYDRANT INSTALLATION | STANDARD CONSTRUCTION DETAILS WATER |             |               |
|  |                                   | DATE: AUGUST, 2010                  | REV DATE: - | SHEET: SD-W16 |



|  |                         |                                     |             |               |
|--|-------------------------|-------------------------------------|-------------|---------------|
| <b>Addison!</b><br>PUBLIC WORKS DEPARTMENT | FIRE HYDRANT GUARD POST | STANDARD CONSTRUCTION DETAILS WATER |             |               |
|  |                         | DATE: AUGUST, 2010                  | REV DATE: - | SHEET: SD-W16 |



|  |                                     |                                     |             |               |
|--|-------------------------------------|-------------------------------------|-------------|---------------|
| <b>Addison!</b><br>PUBLIC WORKS DEPARTMENT | FIRE HYDRANT REFLECTOR INSTALLATION | STANDARD CONSTRUCTION DETAILS WATER |             |               |
|  |                                     | DATE: AUGUST, 2010                  | REV DATE: - | SHEET: SD-W16 |

**NOT THIS CONTRACT**

**SPECIAL NOTE:**  
ALL CONCRETE MANHOLES SHALL BE COATED WITH A SPRAY EPOXY LINING SYSTEM, SUCH AS WARREN ENVIRONMENTAL EPOXY SYSTEMS; S-301-14 OR APPROVED EQUAL. NO POLYURIA TYPE COATINGS WILL BE ACCEPTED. MINIMUM THICKNESS OF 125 MILS.

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WM BART HINES, P.E. No. 49126  
DATE 4/26/2021

**SURVEY CONTROL**  
CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL

**NOTE:** ALL COORDINATES ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE, NAD 83. ALL DISTANCES AND COORDINATES ARE EXPRESSED IN US SURVEY FEET. ALL DISTANCES AND COORDINATES ARE SURFACE AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SURFACE FACTOR OF 0.9998496003.

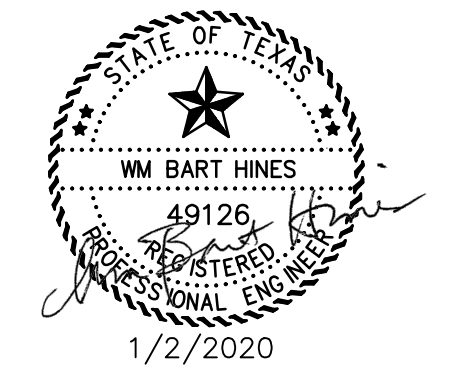
**FLOODPLAIN NOTE:** THE ENTIRE PROJECT IS LOCATED WITHIN ZONE 'X' (AREA OF MINIMAL FLOODING) PER FEMA FIRM MAP 48113C0180K, EFFECTIVE 07/07/2014.

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|                                     |                |
|-------------------------------------|----------------|
| PUBLIC WORKS & ENGINEERING SERVICES | 972-450-2871   |
| TEXAS ONE CALL/DIG TESS             | 1-811-344-8377 |
| ONCOR                               | 1-888-313-6862 |
| AT&T                                | 1-800-331-0500 |
| SPECTRUM/CHARTER COMMUNICATIONS     | 1-888-438-2427 |
| ATMOS ENERGY                        | 1-888-286-6700 |

| ▲        | <b>RECORD DRAWING REVISION</b> | WBH     | 04/26/21 |
|----------|--------------------------------|---------|----------|
| REV. NO. | DESCRIPTION                    | CHK. BY | DATE     |



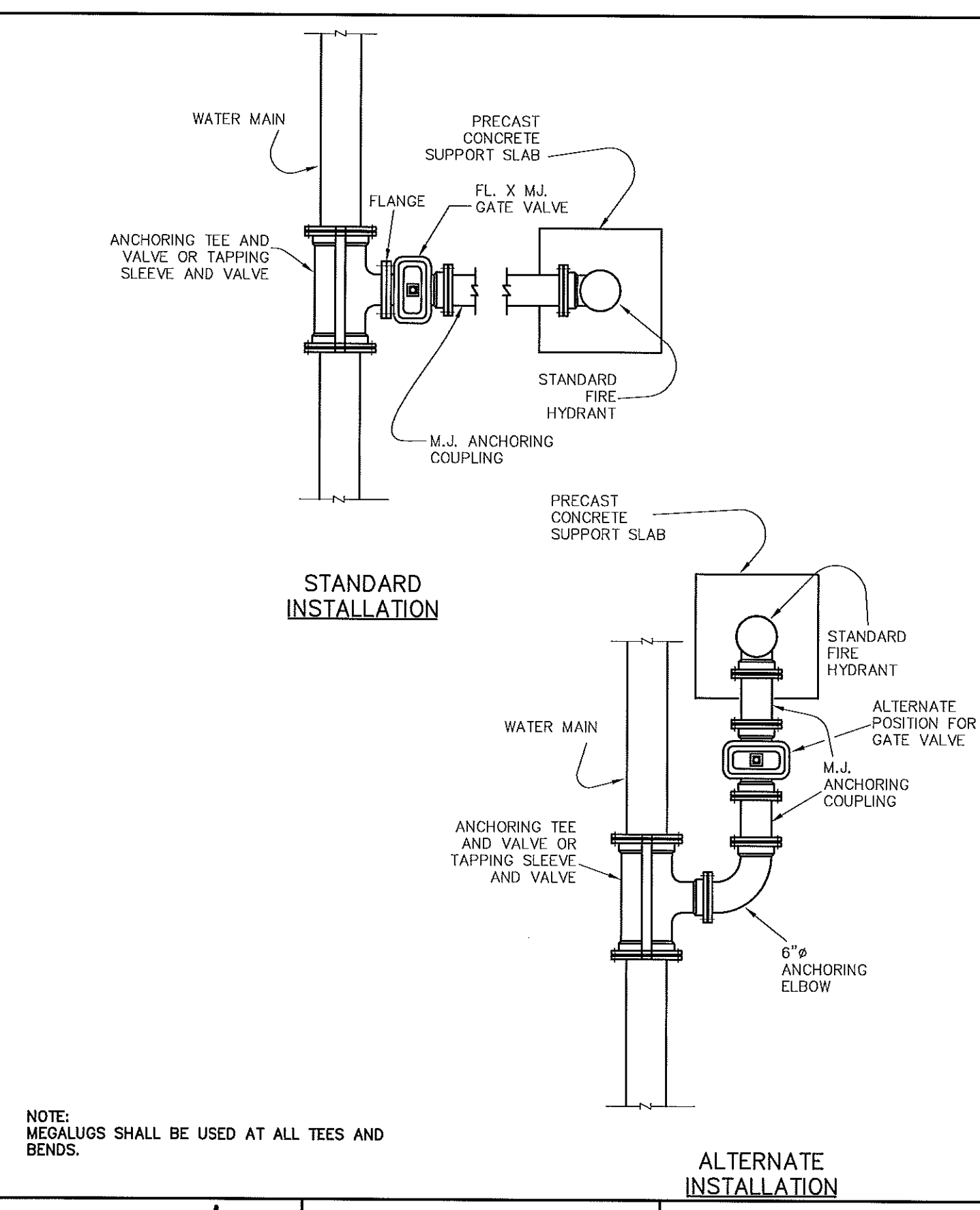
**ADDISON, TEXAS  
PUBLIC WORKS &  
ENGINEERING SERVICES**

SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
PROJECT NO. 513301

WATER DETAILS (3 OF 3)

**DANNENBAUM**  
ENGINEERING COMPANY - DALLAS, LLC  
T.B.P.E. FIRM REGISTRATION #8996  
3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

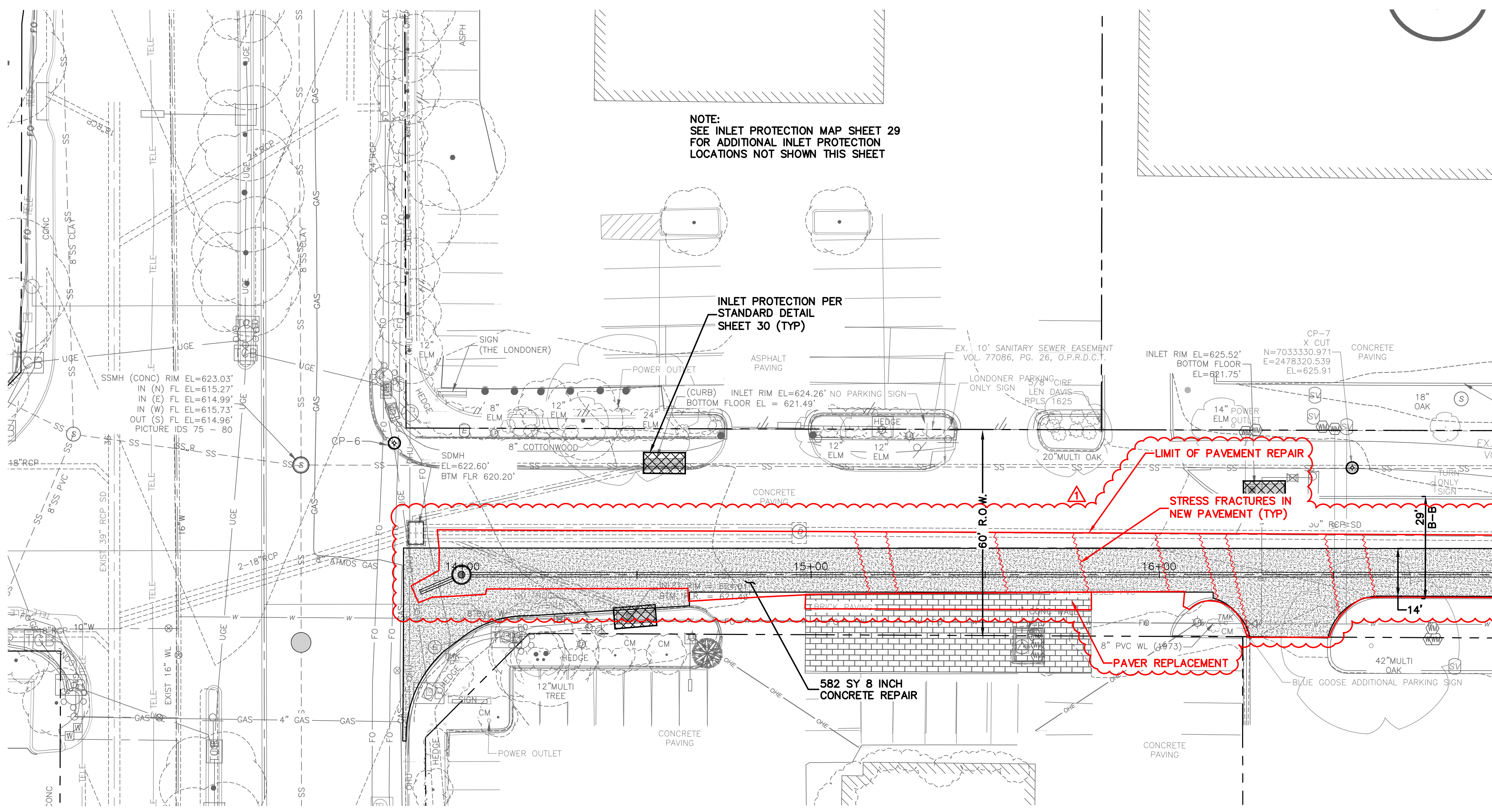
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| DESIGNED BY: WBH      | DATE: 4/26/2021    |
| DRAWN BY: CMR         | PROJECT NO: 513301 |
| CHECKED BY: DEG       | DRAWING SCALE: NTS |
| FILE: DETAILS_WTR.dwg | SHEET NO: 24       |



|  |                                   |                                     |             |               |
|--|-----------------------------------|-------------------------------------|-------------|---------------|
| <b>Addison!</b><br>PUBLIC WORKS DEPARTMENT | TYPICAL FIRE HYDRANT INSTALLATION | STANDARD CONSTRUCTION DETAILS WATER |             |               |
|  |                                   | DATE: AUGUST, 2010                  | REV DATE: - | SHEET: SD-W17 |

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PLOTTED: Apr 26, 2021 - 3:52pm  
crystalreed





NOTE:  
SEE INLET PROTECTION MAP SHEET 29  
FOR ADDITIONAL INLET PROTECTION  
LOCATIONS NOT SHOWN THIS SHEET

INLET PROTECTION PER  
STANDARD DETAIL  
SHEET 30 (TYP)

LIMIT OF PAVEMENT REPAIR  
STRESS FRACTURES IN  
NEW PAVEMENT (TYP)

PAVER REPLACEMENT

582 SY 8 INCH  
CONCRETE REPAIR

BELTWAY DRIVE

MATCHLINE STA 17+00  
SEE SHEET 26

- ASPHALT PAVEMENT REPAIR
- 8 INCH PRIVATE DRIVEWAY  
CONCRETE PAVEMENT REPAIR
- 8 INCH CONCRETE PAVEMENT REPAIR
- SOD REPLACEMENT
- INLET PROTECTION

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WM BART HINES, P.E. No. 49126  
DATE 4/26/2021

CONTROL CP-5  
X CUT N=70333161.667  
E=2477957.363  
EL=621.41

CONTROL CP-4  
FOUND 5/8" CIRS  
N 7032888.8263  
E 2478048.1677  
EL=621.41

SURVEY CONTROL  
CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL

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PUBLIC WORKS & ENGINEERING SERVICES 972-450-2871  
TEXAS ONE CALL/DIG TESS 1-811-344-8377  
ONCOR 1-888-313-6862  
AT&T 1-800-331-0500  
SPECTRUM/CHARTER COMMUNICATIONS 1-888-438-2427  
ATMOS ENERGY 1-888-286-6700

|  |                         |     |          |
|--|-------------------------|-----|----------|
|  | RECORD DRAWING REVISION | WBH | 04/26/21 |
|--|-------------------------|-----|----------|

| REV. NO. | DESCRIPTION | CHK. BY | DATE |
|----------|-------------|---------|------|
|----------|-------------|---------|------|



ADDISON, TEXAS  
PUBLIC WORKS &  
ENGINEERING SERVICES

SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
PROJECT NO. 513301

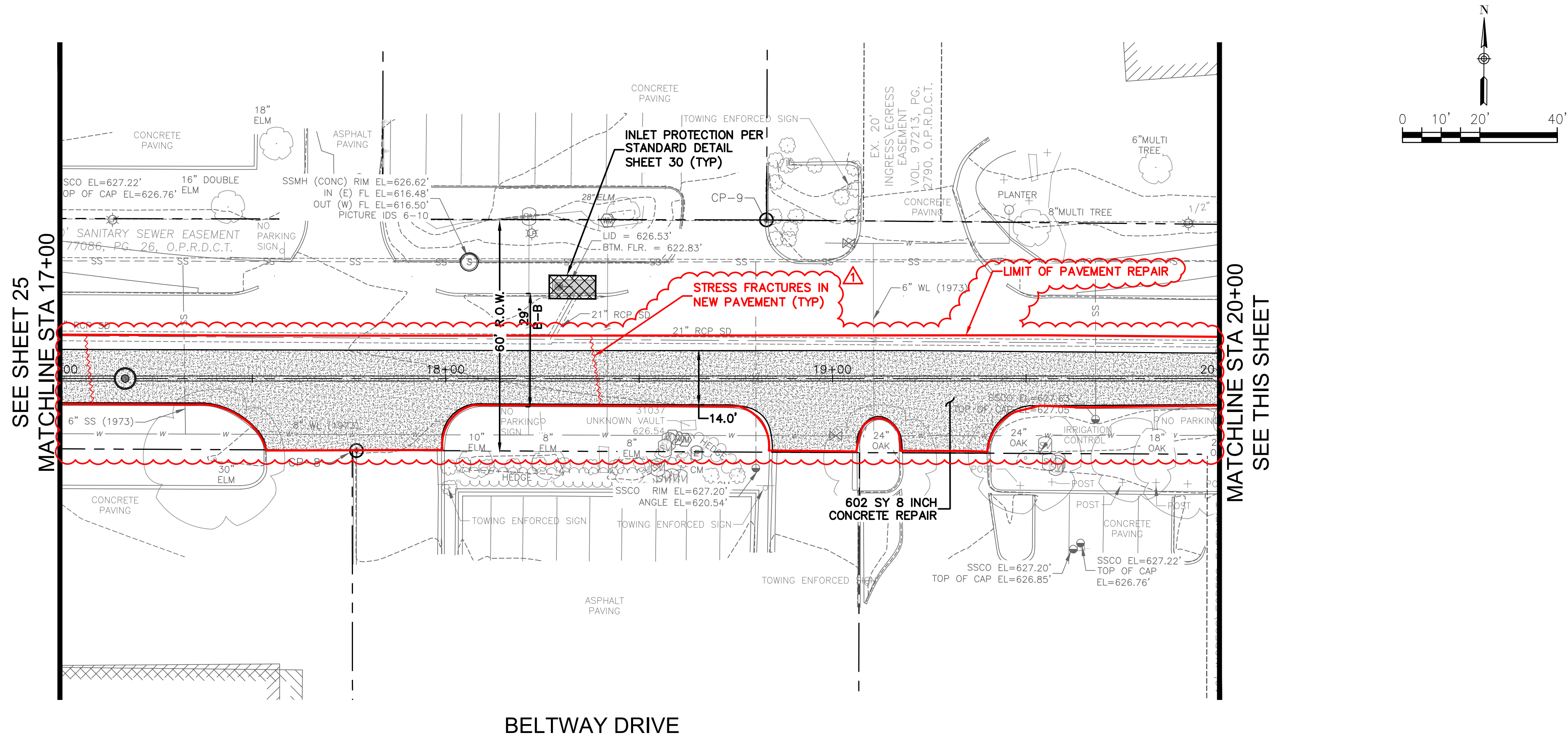
PAVE RESTORATION  
BEGIN TO STA 17+00

**DANNENBAUM**  
ENGINEERING COMPANY - DALLAS, LLC  
T.B.P.E. FIRM REGISTRATION #8996  
3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

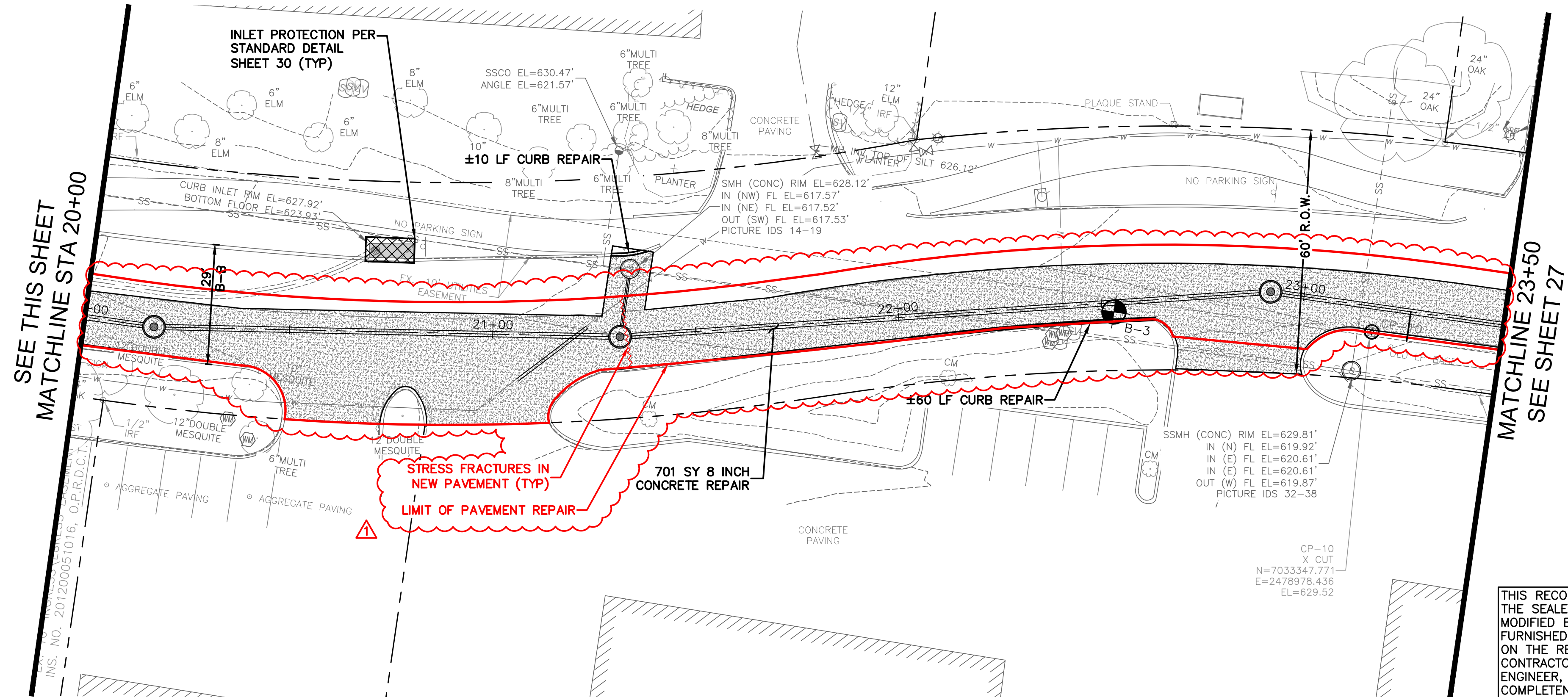
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| DRAWN BY: CMR    | PROJECT NO: 513301    |
| CHECKED BY: DEG  | DRAWING SCALE: 1"=20' |
| FILE: PAVING.dwg | SHEET NO: 25          |

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PLOTTED: May 12, 2021 3:38pm  
Crystal Reed

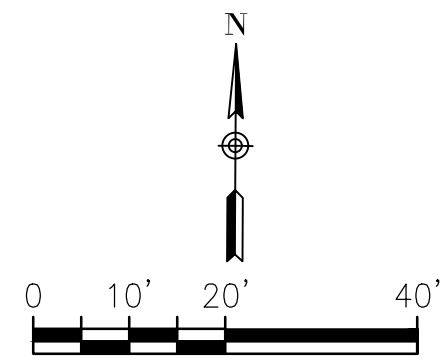
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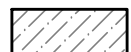


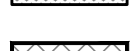


BELTWAY DRIVE



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 WM BART HINES, P.E. No. 49126  
 DATE 4/26/2021



-  ASPHALT PAVEMENT REPAIR
-  8 INCH PRIVATE DRIVEWAY CONCRETE PAVEMENT REPAIR
-  8 INCH CONCRETE PAVEMENT REPAIR
-  SOD REPLACEMENT
-  INLET PROTECTION

CP-8 CP-9  
 'X' CUT 'X' CUT  
 N=7033282.9139 N=7033343.6603  
 E=2478442.5775 E=2478547.9288  
 ELEVATION =625.89 ELEVATION 626.88  
 SURVEY CONTROL  
 CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL

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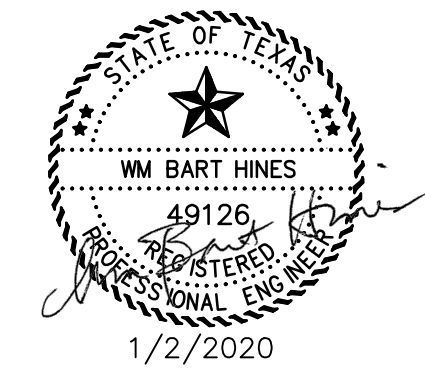
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 ONCOR 1-888-313-6862  
 AT&T 1-800-331-0500  
 SPECTRUM/CHARTER COMMUNICATIONS 1-888-438-2427  
 ATMOS ENERGY 1-888-286-6700

| REV. NO. | DESCRIPTION             | CHK. BY | DATE     |
|----------|-------------------------|---------|----------|
| 1        | RECORD DRAWING REVISION | WBH     | 04/26/21 |



ADDISON, TEXAS  
 PUBLIC WORKS &  
 ENGINEERING SERVICES

SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
 PROJECT NO. 513301

PAVE RESTORATION  
 STA 17+00 TO 23+50

**DANNENBAUM**  
 ENGINEERING COMPANY - DALLAS, LLC  
 T.B.P.E. FIRM REGISTRATION #8996  
 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

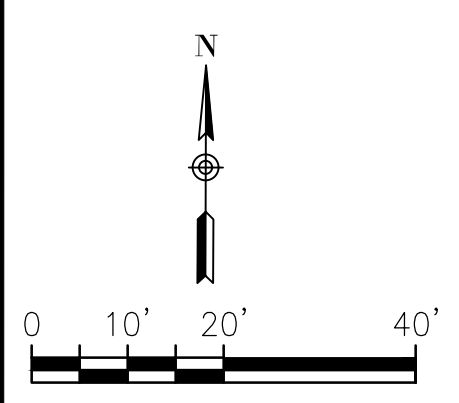
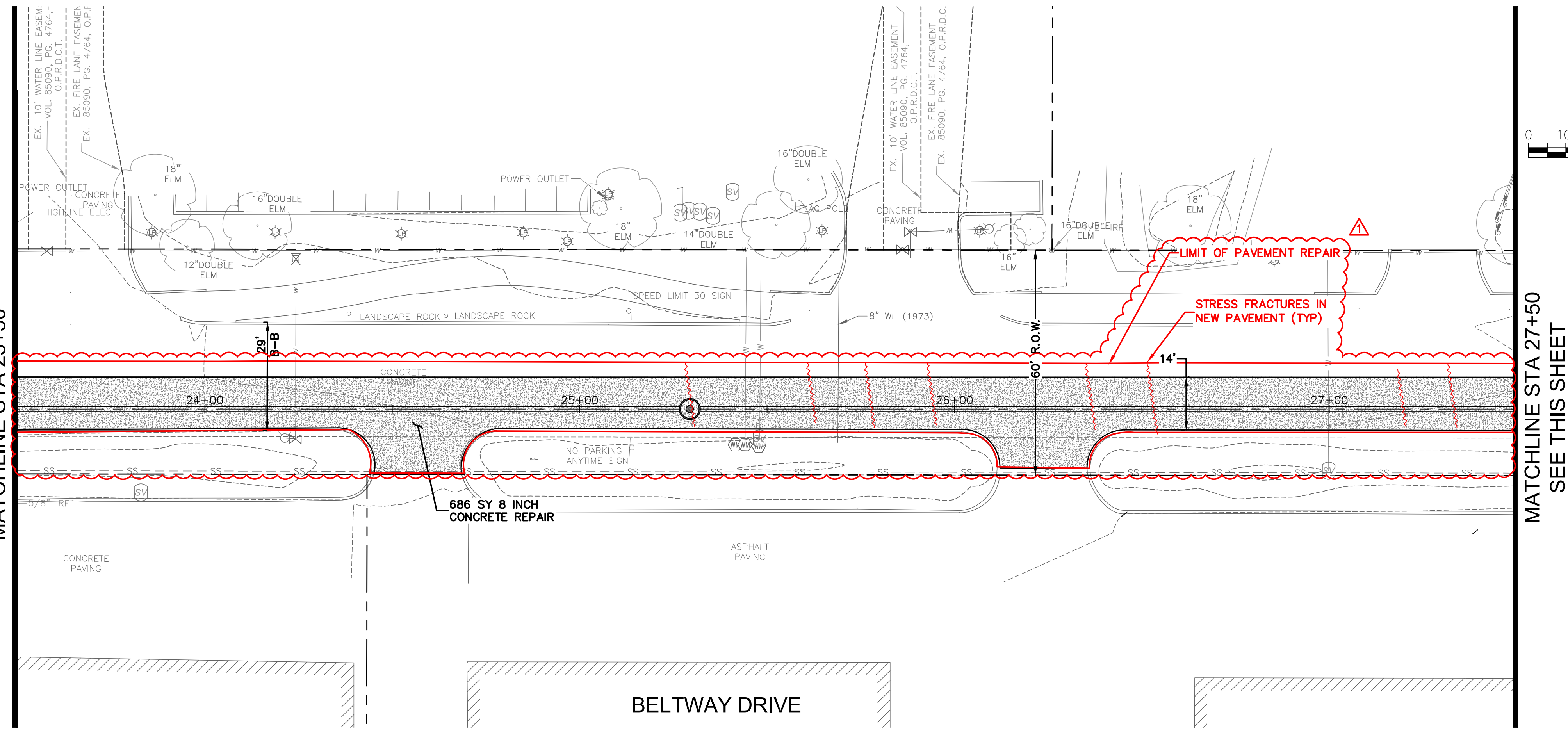
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|------------------|-----------------------|
| DESIGNED BY: WBH | DATE: 5/12/2021       |
| DRAWN BY: CMR    | PROJECT NO: 513301    |
| CHECKED BY: DEG  | DRAWING SCALE: 1"=20' |

FILE: PAVING.dwg

SHEET NO: 26

G:\1220\5133-01 Addison Basin 1 Final Design\CAD\Construction\main\5133-01\_Pave Restor.dwg  
 PLOTTED: May 12, 2021 - 4:30pm  
 C:\Users\cmr\OneDrive\Documents\5133-01\_Pave Restor.dwg

SEE SHEET 26  
MATCHLINE STA 23+50



- ASPHALT PAVEMENT REPAIR
- 8 INCH PRIVATE DRIVEWAY CONCRETE PAVEMENT REPAIR
- 8 INCH CONCRETE PAVEMENT REPAIR
- SOD REPLACEMENT
- INLET PROTECTION

**ATTENTION :**  
 THE CONTRACTOR SHALL NOT DO ANY WORK OR CONSTRUCTION IN THE FARMER'S BRANCH CITY LIMITS. PLEASE CONTACT THE TOWN OF ADDISON STAFF IF THERE IS ANY QUESTION REGARDING WORK THAT IMPACTS IN THE FARMERS BRANCH CITY LIMITS.

**SPECIAL NOTE:**  
 STA 29+09 TO 39+38 SAW CUT PAVEMENT PER WASTEWATER MAIN EMBEDMENT DETAIL SHEET 15

**SURVEY CONTROL**  
 CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL

**NOTE:** ALL COORDINATES ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE, NAD 83. ALL DISTANCES AND COORDINATES ARE EXPRESSED IN US SURVEY FEET. ALL DISTANCES AND COORDINATES ARE SURFACE AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SURFACE FACTOR OF 0.9998496003.

**FLOODPLAIN NOTE:** THE ENTIRE PROJECT IS LOCATED WITHIN ZONE 'X' (AREA OF MINIMAL FLOODING) PER FEMA FIRM MAP 48113C0180K, EFFECTIVE 07/07/2014.

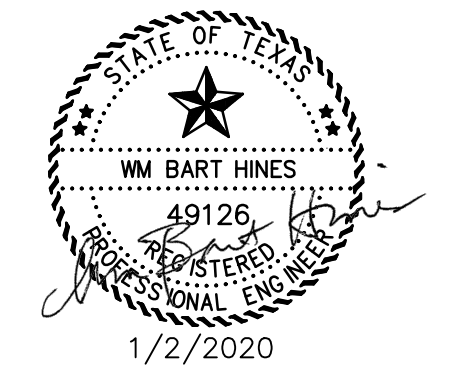
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**WARNING!** UNDERGROUND UTILITIES IN AREA OF CONSTRUCTION. CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATION IN THIS AREA.

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 WM BART HINES, P.E. No. 49126  
 DATE 4/26/2021

| REV. NO. | DESCRIPTION             | CHK. BY | DATE     |
|----------|-------------------------|---------|----------|
| 1        | RECORD DRAWING REVISION | WBH     | 04/26/21 |



**ADDISON, TEXAS  
 PUBLIC WORKS &  
 ENGINEERING SERVICES**

SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
 PROJECT NO. 513301

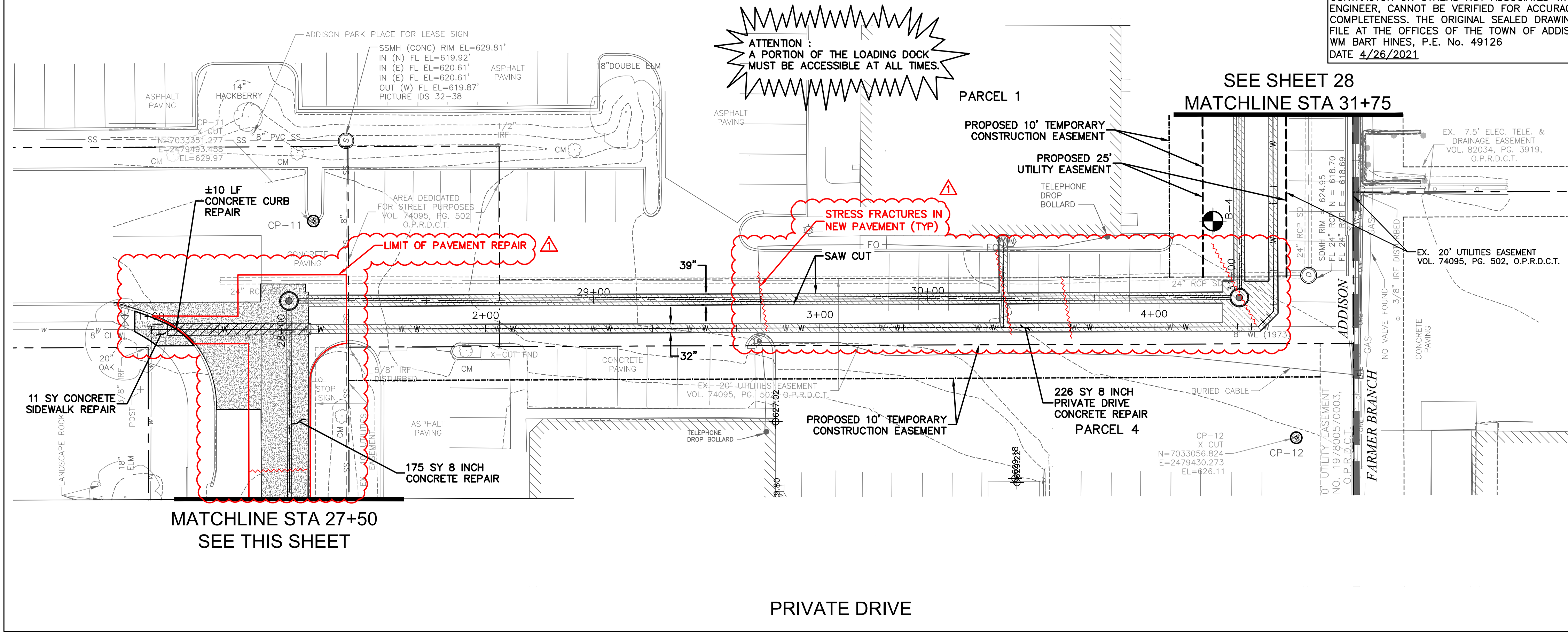
PAVE RESTORATION  
 STA 23+50 TO 31+75

**DANNENBAUM**  
 ENGINEERING COMPANY - DALLAS, LLC  
 T.B.P.E. FIRM REGISTRATION #8996  
 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

|                  |                       |
|------------------|-----------------------|
| DESIGNED BY: WBH | DATE: 5/12/2021       |
| DRAWN BY: CMR    | PROJECT NO: 513301    |
| CHECKED BY: DEG  | DRAWING SCALE: 1"=20' |
| FILE: PAVING.dwg | SHEET NO: 27          |

**ATTENTION :**  
 A PORTION OF THE LOADING DOCK MUST BE ACCESSIBLE AT ALL TIMES.

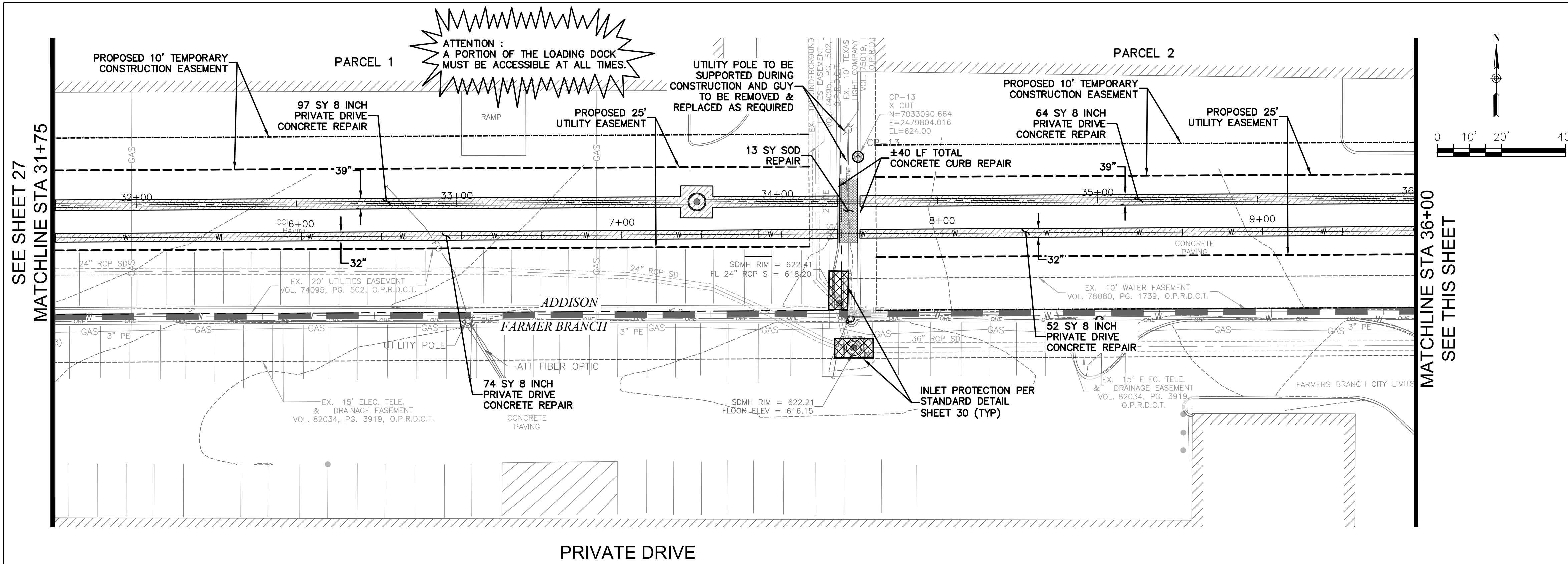
SEE SHEET 28  
MATCHLINE STA 31+75



MATCHLINE STA 27+50  
SEE THIS SHEET

PRIVATE DRIVE

G:\1220\5133-01 Addison Basin 1 Final Design\CAD\Construction\main\5133-01\Flowline\redlines\for record drawings\5133-01\_Ext\_Base.dwg  
 PLOTTED: May 12, 2021 - 3:43pm  
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 C:\Users\cmr\OneDrive\Documents\5133-01\_Pave\_Redlines\_recover.dwg



- ASPHALT PAVEMENT REPAIR
- 8 INCH PRIVATE DRIVEWAY CONCRETE PAVEMENT REPAIR
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**SURVEY CONTROL**  
 CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL

**NOTE:** ALL COORDINATES ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE, NAD 83. ALL DISTANCES AND COORDINATES ARE EXPRESSED IN US SURVEY FEET. ALL DISTANCES AND COORDINATES ARE SURFACE AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SURFACE FACTOR OF 0.9998496003.

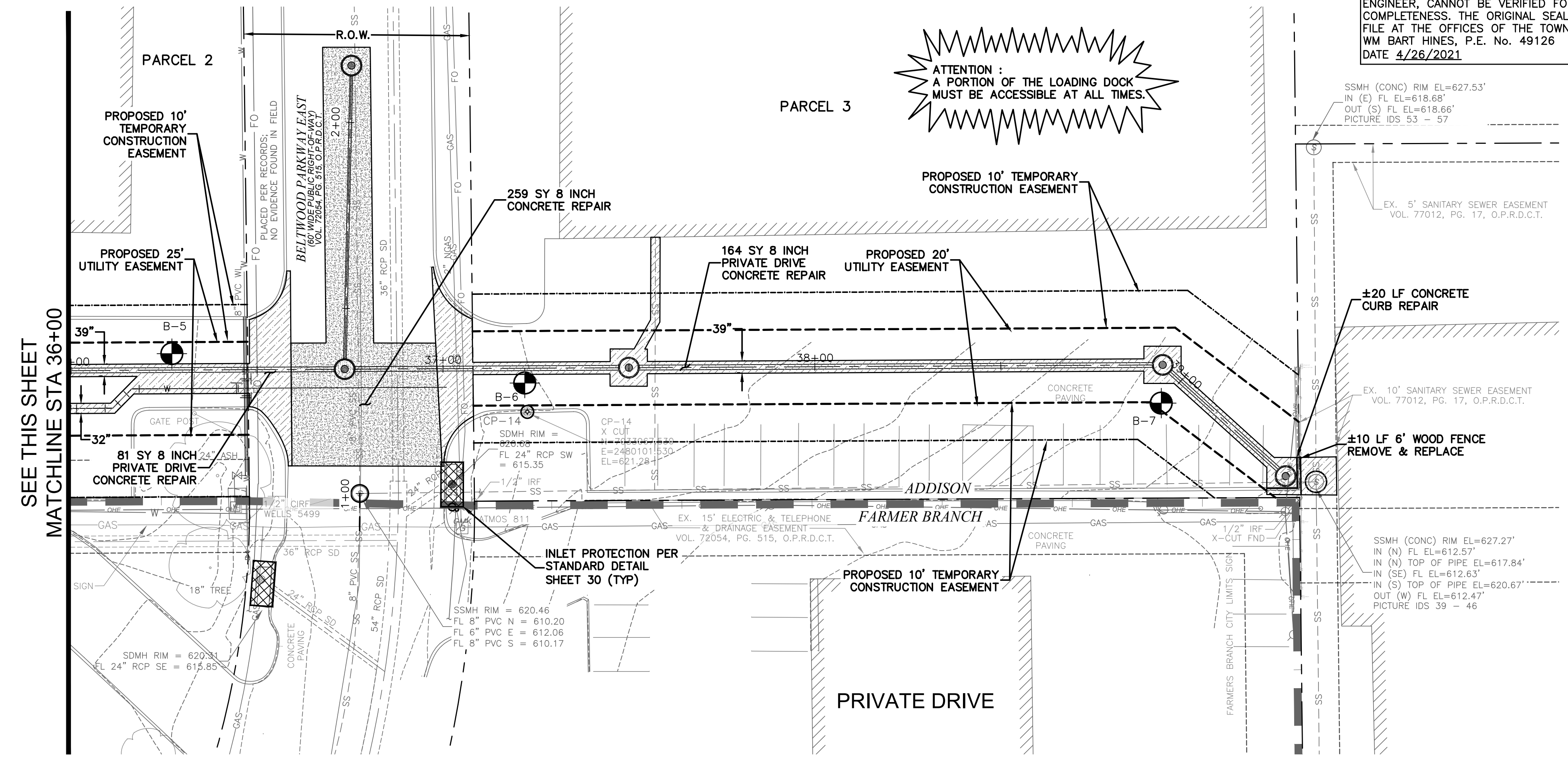
**FLOODPLAIN NOTE:** THE ENTIRE PROJECT IS LOCATED WITHIN ZONE 'X' (AREA OF MINIMAL FLOODING) PER FEMA FIRM MAP 48113C0180K, EFFECTIVE 07/07/2014.

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- |                                     |                |
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| ATMOS ENERGY                        | 1-888-286-6700 |

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 WM BART HINES, P.E. No. 49126  
 DATE 4/26/2021



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**ADDISON, TEXAS  
 PUBLIC WORKS &  
 ENGINEERING SERVICES**

**SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
 PROJECT NO. 513301**

**PAVE RESTORATION  
 STA 31+75 TO END**

**DANNENBAUM**  
 ENGINEERING COMPANY - DALLAS, LLC  
 T.B.P.E. FIRM REGISTRATION #8996  
 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

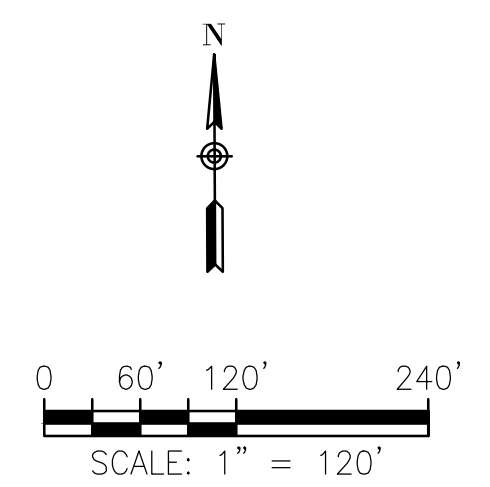
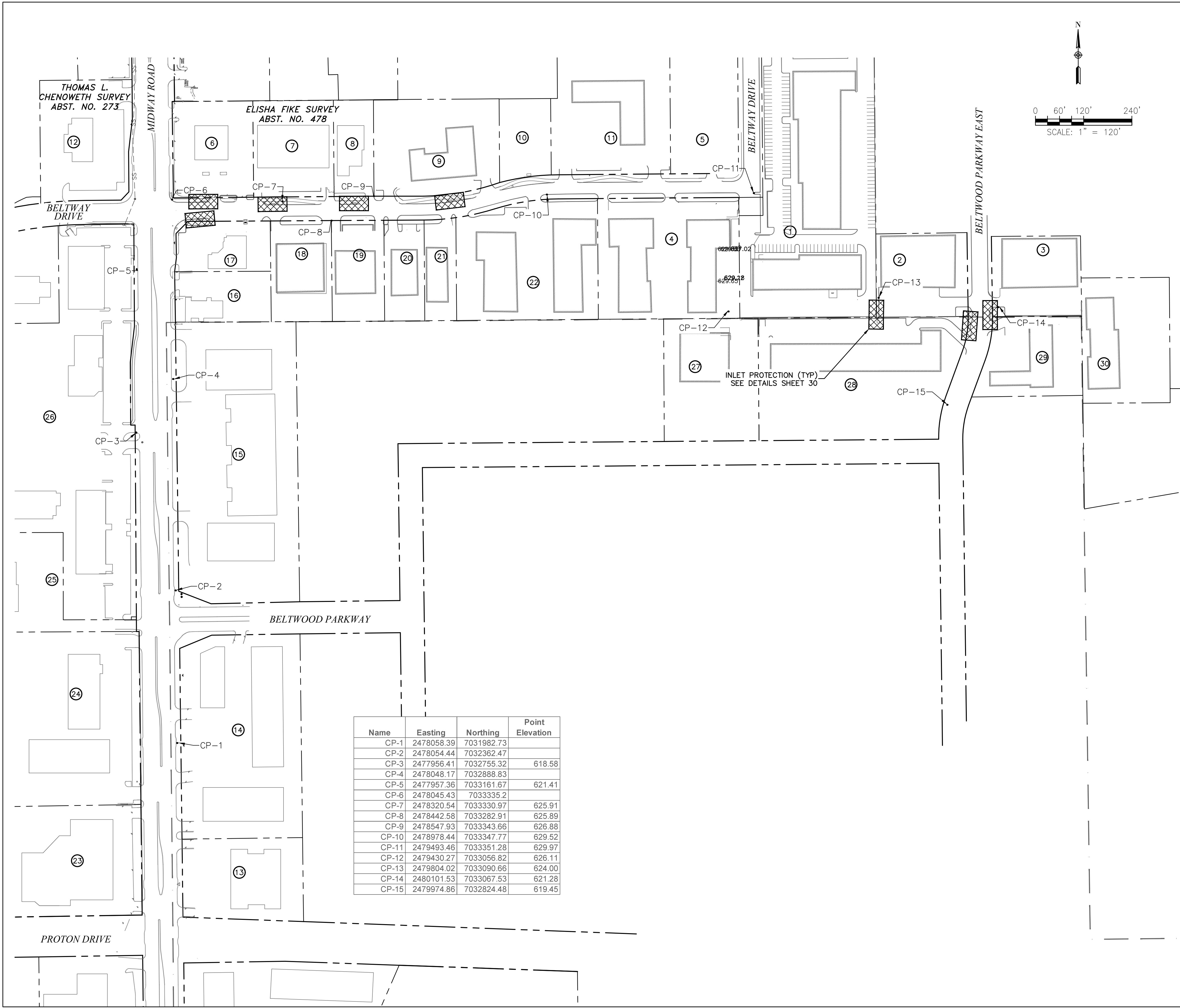
DESIGNED BY: WMB DATE: 5/12/2021

DRAWN BY: CMR PROJECT NO: 513301

CHECKED BY: DEG DRAWING SCALE: 1"=20'

FILE: PAVING.dwg SHEET NO: 28

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 PLOTTED: May 12, 2021 - 3:41pm  
 crystalreed



**LEGEND**

|     |                                |
|-----|--------------------------------|
| --- | R.O.W LINE/PROPERTY LINE       |
| --- | SHEET LAYOUT                   |
| ⊗   | PROPERTY IDENTIFICATION NUMBER |
| ⊗   | INLET PROTECTION               |

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**SURVEY CONTROL**  
 CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL  
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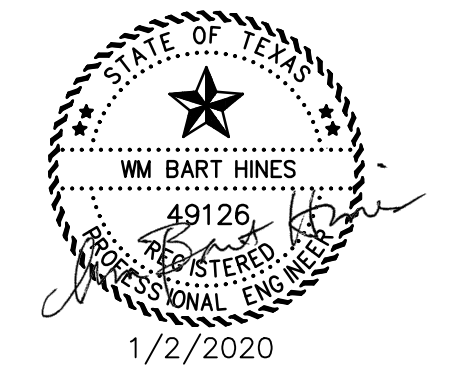
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|                                     |                |
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| ONCOR                               | 1-888-313-6862 |
| AT&T                                | 1-800-331-0500 |
| SPECTRUM/CHARTER COMMUNICATIONS     | 1-888-438-2427 |
| ATMOS ENERGY                        | 1-888-286-6700 |

| Name  | Easting    | Northing   | Point Elevation |
|-------|------------|------------|-----------------|
| CP-1  | 2478058.39 | 7031982.73 |                 |
| CP-2  | 2478054.44 | 7032362.47 |                 |
| CP-3  | 2477956.41 | 7032755.32 | 618.58          |
| CP-4  | 2478048.17 | 7032888.83 |                 |
| CP-5  | 2477957.36 | 7033161.67 | 621.41          |
| CP-6  | 2478045.43 | 7033335.2  |                 |
| CP-7  | 2478320.54 | 7033330.97 | 625.91          |
| CP-8  | 2478442.58 | 7033282.91 | 625.89          |
| CP-9  | 2478547.93 | 7033343.66 | 626.88          |
| CP-10 | 2478978.44 | 7033347.77 | 629.52          |
| CP-11 | 2479493.46 | 7033351.28 | 629.97          |
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| CP-13 | 2479804.02 | 7033090.66 | 624.00          |
| CP-14 | 2480101.53 | 7033067.53 | 621.28          |
| CP-15 | 2479974.86 | 7032824.48 | 619.45          |

| REV. NO. | DESCRIPTION | CHK. BY | DATE |
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**ADDISON, TEXAS  
 PUBLIC WORKS &  
 ENGINEERING SERVICES**

**SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
 PROJECT NO. 513301**

**INLET PROTECTION MAP**

**DANNENBAUM**  
 ENGINEERING COMPANY - DALLAS, LLC  
 T.B.P.E. FIRM REGISTRATION #8996  
 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

|                               |                        |
|-------------------------------|------------------------|
| DESIGNED BY: WBH              | DATE: 1/2/2020         |
| DRAWN BY: CMR                 | PROJECT NO: 513301     |
| CHECKED BY: DEG               | DRAWING SCALE: 1"=120' |
| FILE: 05 inlet protection.dwg | SHEET NO: 29           |

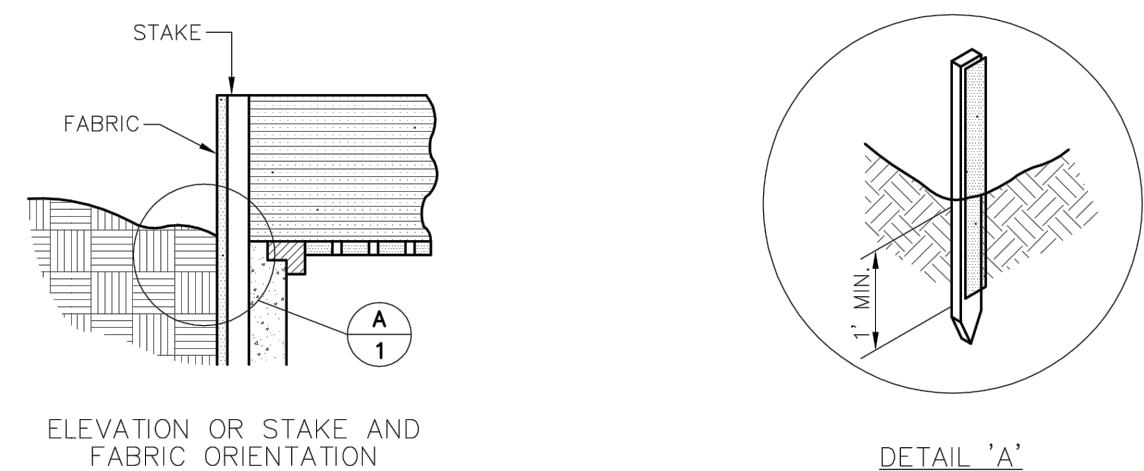
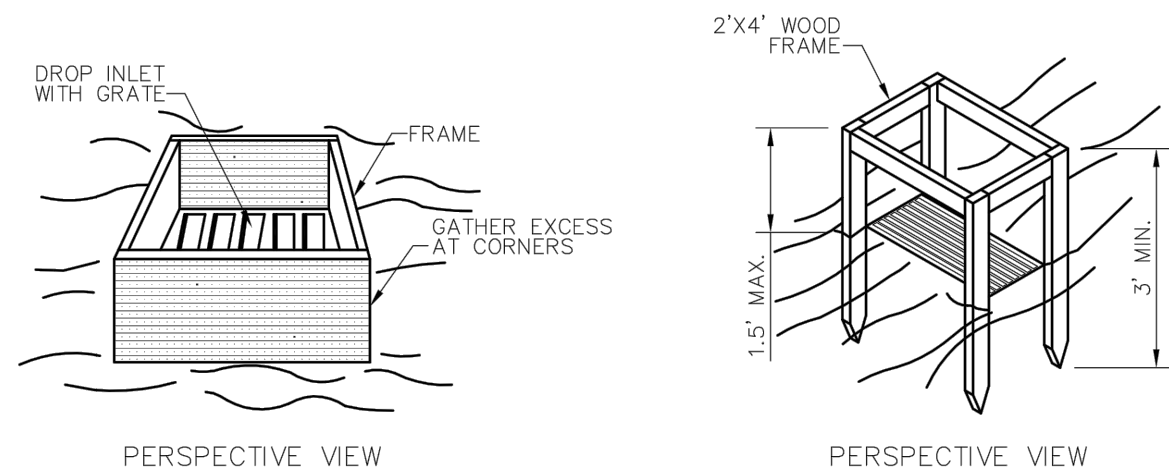
**EROSION CONTROL PLAN NOTES**

- ALL OPERATORS AND/OR CONTRACTORS SHALL CONFORM TO THE TERMS AND CONDITIONS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ), TPDES GENERAL PERMIT NO. TXR 150000 ISSUED AND DATED MARCH 5, 2003.
- THE NOTICE OF INTENT (NOI), AS REQUIRED BY THE GENERAL PERMIT, MUST BE PROPERLY DISPLAYED ON SITE AT ALL TIMES BY EACH OPERATOR.
- ALL RELEASES OF THE REPORTABLE QUANTITIES OF HAZARDOUS SUBSTANCES SHALL BE REPORTED IMMEDIATELY TO THE FACILITY OPERATOR, EPA AND TCEQ.
- QUALIFIED OPERATOR PERSONNEL MUST INSPECT THE SITE AT LEAST ONCE EVERY 14 DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER. AS AN ALTERNATIVE, AN INSPECTION CAN BE CONDUCTED ONCE EVERY SEVEN (7) CALENDAR DAYS ON A DEFINED DAY. A DECISION ON WHICH METHOD TO USE MUST BE DECIDED BEFORE WORK BEGINS AND MUST BE FOLLOWED THROUGHOUT THE PROJECT.
- MODIFICATIONS TO THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE IMPLEMENTED AND BE IN-PLACE WITHIN A SEVEN CALENDAR DAY PERIOD.
- IF ANY CONTRACTOR SEES A VIOLATION BY AN OPERATOR OR ANOTHER CONTRACTOR, THAT OPERATOR OR CONTRACTOR IN VIOLATION SHALL BE NOTIFIED AS WELL AS THE FACILITY OPERATOR.
- EROSION CONTROL SHALL BE INSTALLED PRIOR TO GRADING.
- ACCUMULATED SILT DEPOSITS SHALL BE REMOVED FROM SILT FENCES AND HAY BALE DIKES WHEN SILT DEPTH REACHES THREE INCHES OR 25%.
- THE CONTRACTOR SHALL ADD OR DELETE EROSION PROTECTION AT THE REQUEST AND DIRECTION OF THE OPERATOR OR TOWN.
- AFTER INSTALLATION OF PAVEMENT, FINAL LOT BENCHING AND GENERAL CLEANUP, THE CONTRACTOR SHALL ESTABLISH GRASS GROUND COVER IN ALL STREET PARKWAYS, LOT AND ALL OTHER DISTURBED AREAS. SODDING SHALL BE DONE AS SPECIFIED BY SECTION 202.5 AND SEEDING AS SPECIFIED BY SECTION 202.6 OF THE OCTOBER 2004 OR LATEST EDITION OF NCTCOG STANDARD SPECIFICATION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTROL AND LIMIT SILT AND SEDIMENT LEAVING THE SITE. SPECIFICALLY, THE CONTRACTOR SHALL PROTECT ALL PUBLIC STREETS, ALLEYS, STREAMS AND STORM DRAINAGE SYSTEMS FROM EROSION DEPOSITS.
- A DRAINAGE AREA MAP WILL BE INCLUDED WITH THE EROSION CONTROL PLAN.
- CONSTRUCTION WASTE DISPOSAL CONTAINERS SHALL BE PROVIDED ON THE SITE FOR DISPOSAL OF ALL NON-HAZARDOUS CONSTRUCTION WASTE MATERIALS. THE CONTAINERS SHALL BE HAULED TO LANDFILL BY THE CONTRACTOR.
- ALL HAZARDOUS MATERIALS SHALL BE HANDLED AND DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

**SILT FENCE NOTES**

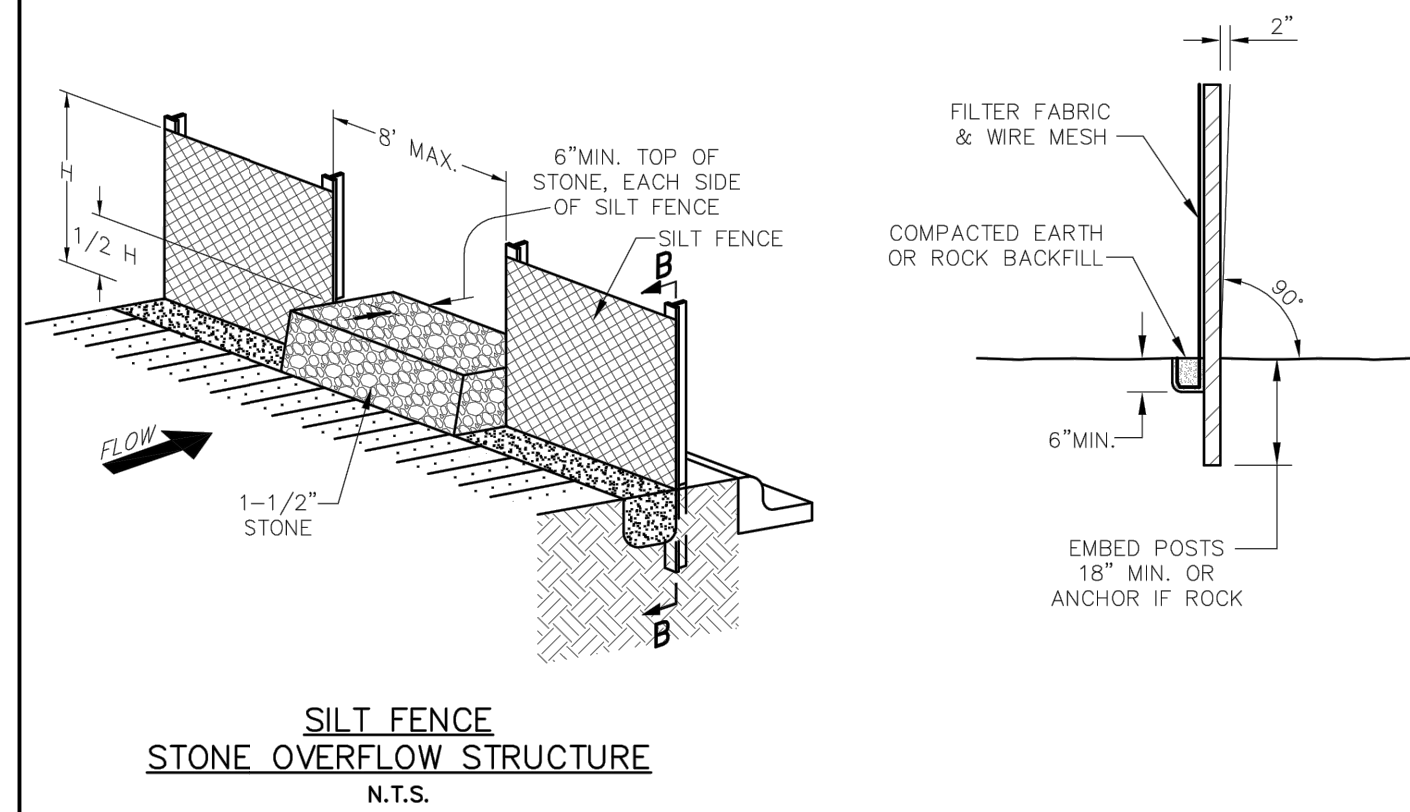
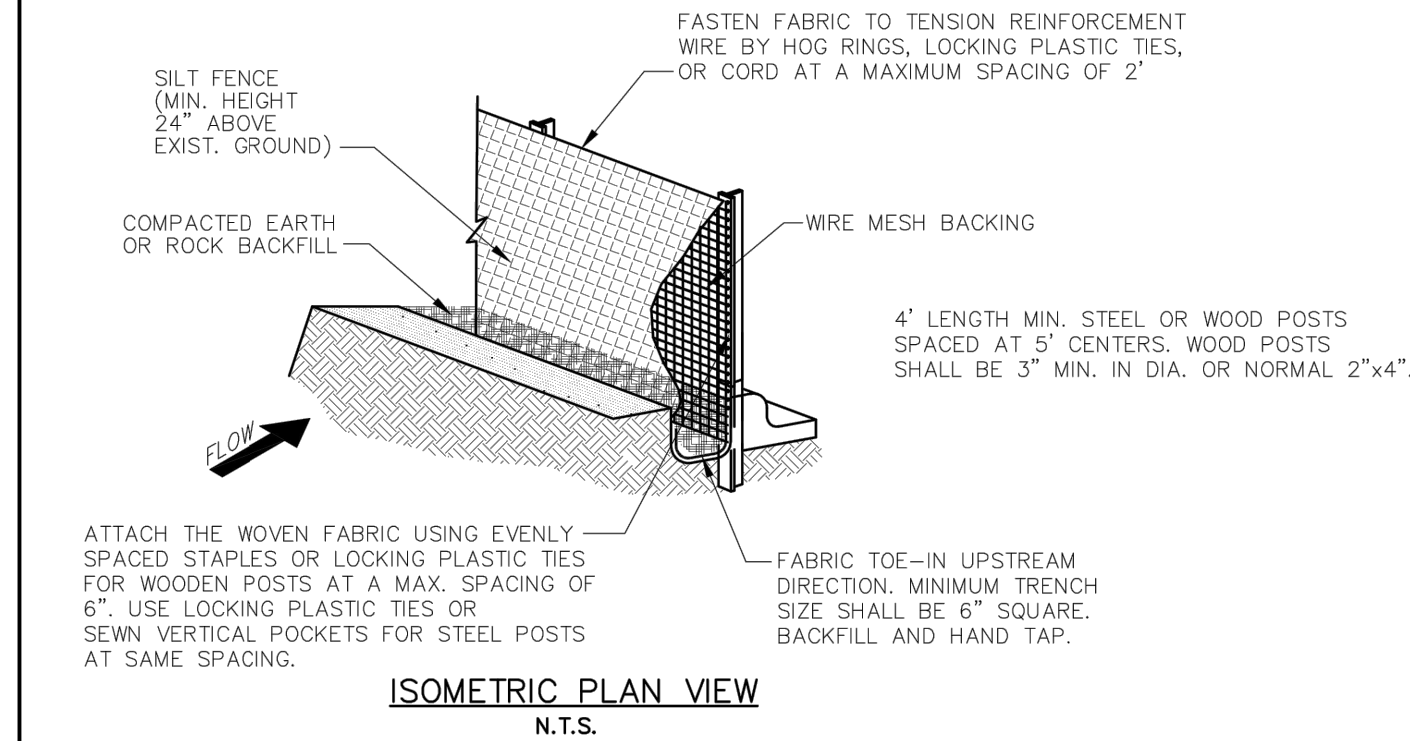
- POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. THE POST MUST BE EMBEDDED A MINIMUM OF 18 INCHES.
- THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE THE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT), WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON THE UPHILL SIDE TO PREVENT FLOW UNDER FENCE.
- THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
- SILT FENCE SHALL BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE SUPPORT POST. THERE SHALL BE A 6 INCH DOUBLE OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
- INSPECTION SHALL BE MADE EVERY TWO WEEKS OR AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHALL BE PROMPTLY AS NEEDED.
- SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 3 INCHES. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

|  |                                    |   |             |                |
|--|------------------------------------|---|-------------|----------------|
|  | EROSION CONTROL & SILT FENCE NOTES | STANDARD CONSTRUCTION DETAILS EROSION CONTROL |             |                |
|  |                                    | DATE: AUGUST, 2010                            | REV DATE: - | SHEET: SD-EC01 |

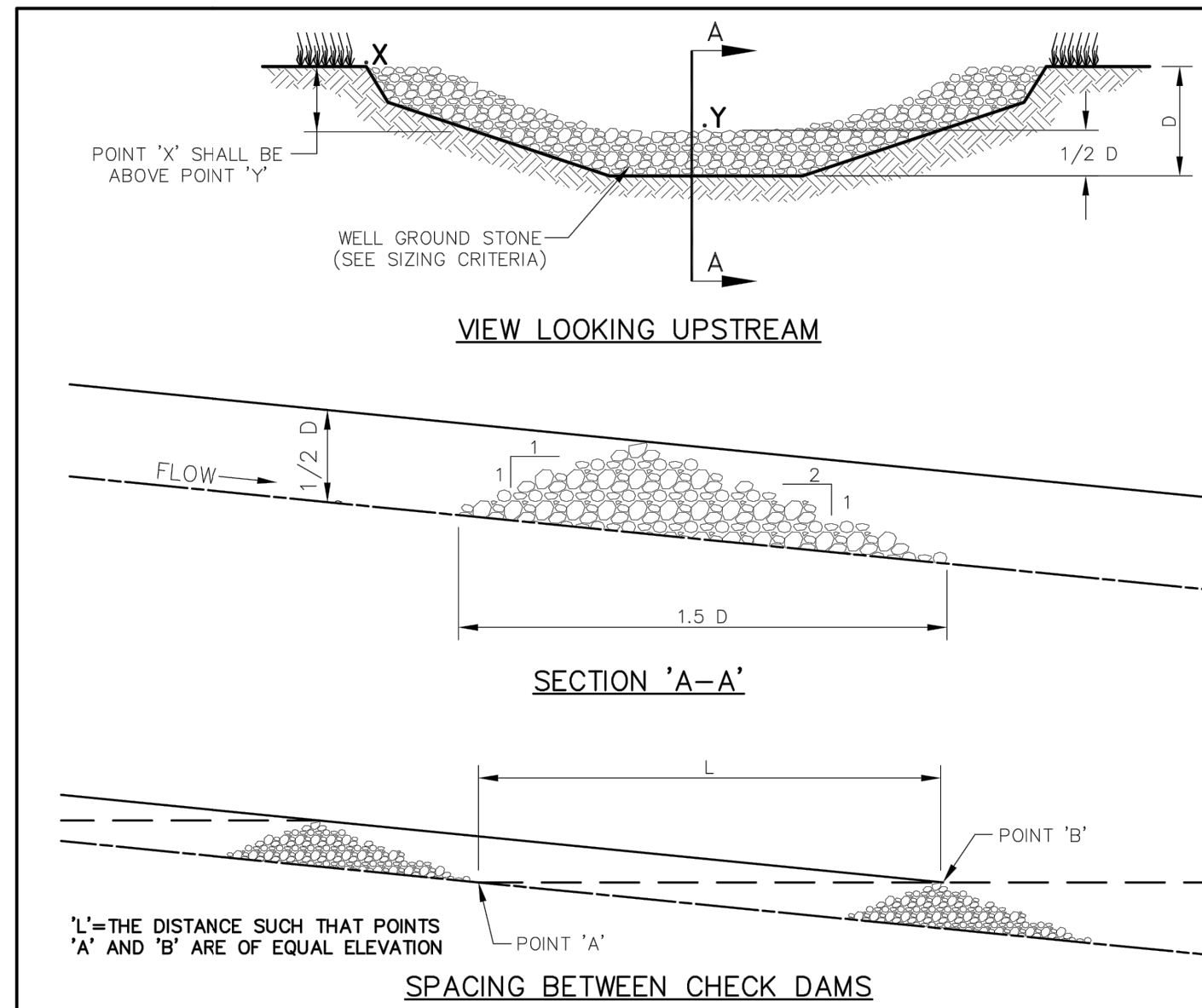


**SPECIFIC APPLICATION**  
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVER-LAND FLOWS (NOT TO EXCEED 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN STREETS OR HIGHWAY MEDIANS.

|  |                                |   |             |                |
|--|--------------------------------|---|-------------|----------------|
|  | GRATE AND WYE INLET PROTECTION | STANDARD CONSTRUCTION DETAILS EROSION CONTROL |             |                |
|  |                                | DATE: AUGUST, 2010                            | REV DATE: - | SHEET: SD-EC04 |



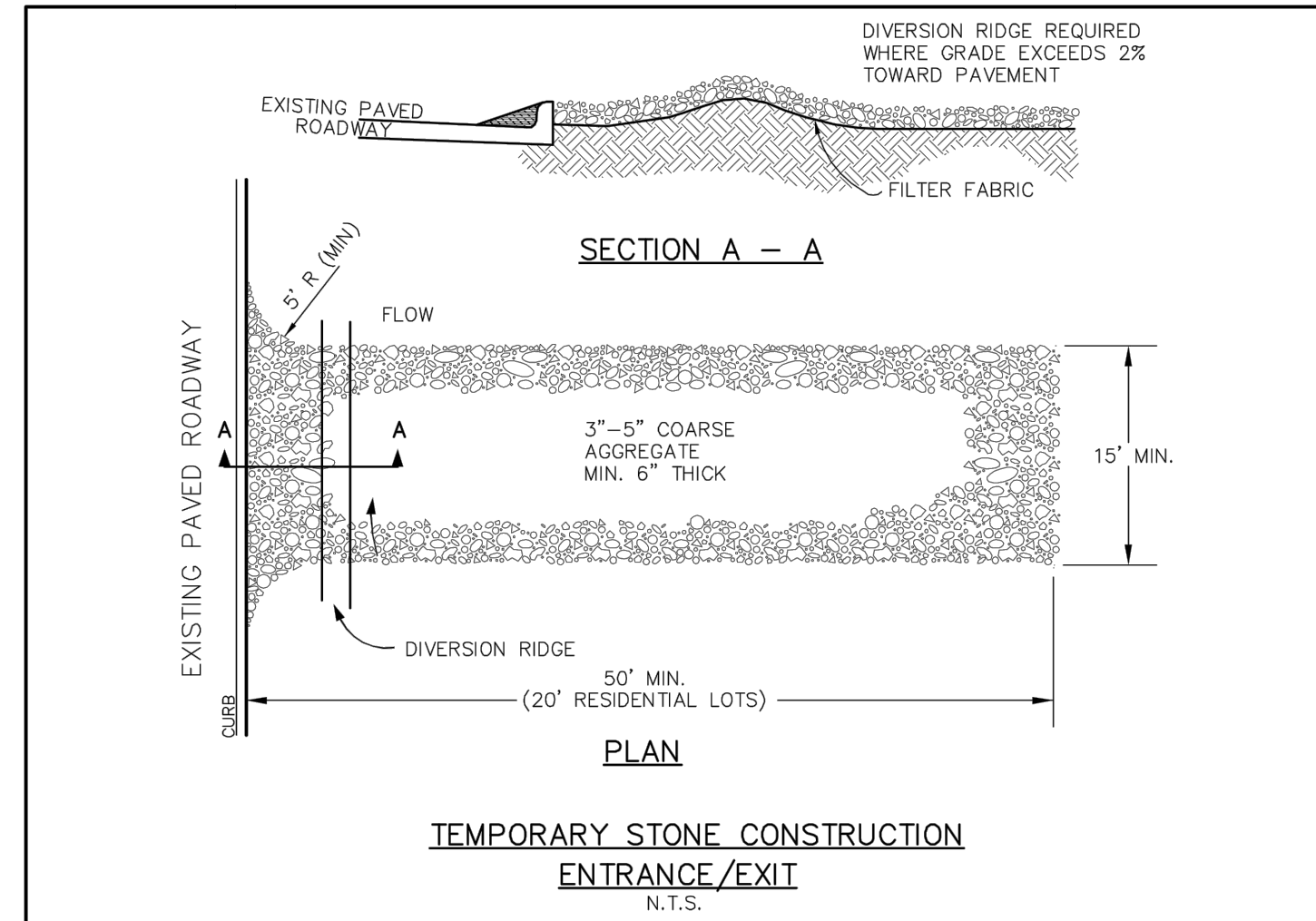
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|  | SILT FENCE DETAIL | STANDARD CONSTRUCTION DETAILS EROSION CONTROL |             |                |
|  |                   | DATE: AUGUST, 2010                            | REV DATE: - | SHEET: SD-EC02 |



**ROCK CHECK DAM NOTES:**

- STONE SHALL BE WELL GRADED STONE WITH SIZE RANGE FROM 1-1/2 TO 3-1/2 INCHES IN DIAMETER DEPENDING ON EXPECTED FLOWS.
- THE CHECK DAM SHALL BE INSPECTED AS SPECIFIED IN THE SWPPP AND SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
- WHEN SILT REACHES A DEPTH EQUAL TO ONE-THIRD OF THE HEIGHT OF THE CHECK DAM OR ONE FOOT, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF PROPERLY.
- WHEN THE SITE HAS ACHIEVED FINAL STABILIZATION OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED, THE CHECK DAM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

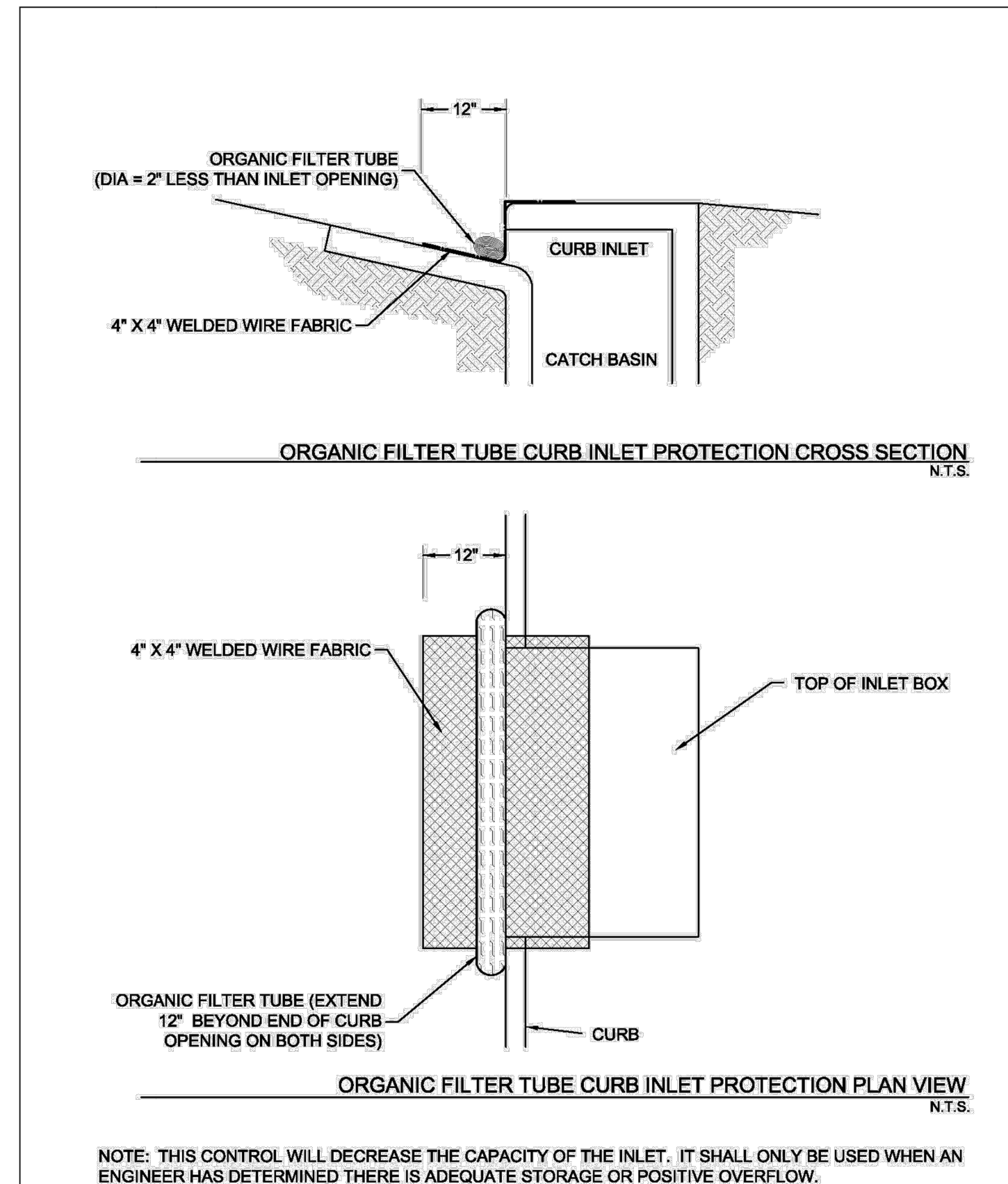
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|  | ROCK CHECK DAM | STANDARD CONSTRUCTION DETAILS EROSION CONTROL |             |                |
|  |                | DATE: AUGUST, 2010                            | REV DATE: - | SHEET: SD-EC05 |



**STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES:**

- WHEN NECESSARY VEHICLES SHALL BE CLEANED TO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES MUST BE REMOVED IMMEDIATELY.
- THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
- WHEN SEDIMENT HAS SUBSTANTIALLY CLOGGED THE VOID AREA BETWEEN THE ROCKS, THE AGGREGATE MAT MUST BE WASHED DOWN OR REPLACED. PERIODIC RE-GRADING AND TOP DRESSING WITH ADDITIONAL STONE MUST BE DONE TO KEEP THE EFFICIENCY OF THE ENTRANCE FROM DIMINISHING.

|  |  |   |             |                |
|--|--|---|-------------|----------------|
|  | TEMPORARY STONE CONSTRUCTION ENTRANCE/EXIT | STANDARD CONSTRUCTION DETAILS EROSION CONTROL |             |                |
|  |  | DATE: AUGUST, 2010                            | REV DATE: - | SHEET: SD-EC03 |



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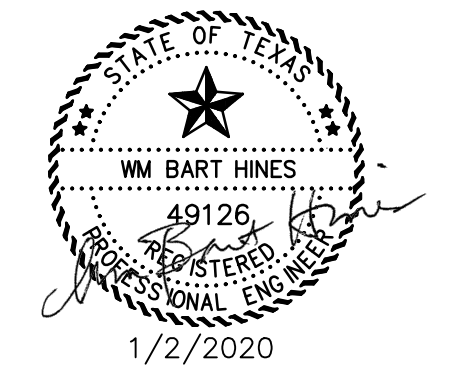
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| ONCOR                               | 1-888-313-6862 |
| AT&T                                | 1-800-331-0500 |
| SPECTRUM/CHARTER COMMUNICATIONS     | 1-888-438-2427 |
| ATMOS ENERGY                        | 1-888-286-6700 |

| REV. NO. | DESCRIPTION | CHK. BY | DATE |
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ADDISON, TEXAS  
PUBLIC WORKS &  
ENGINEERING SERVICES

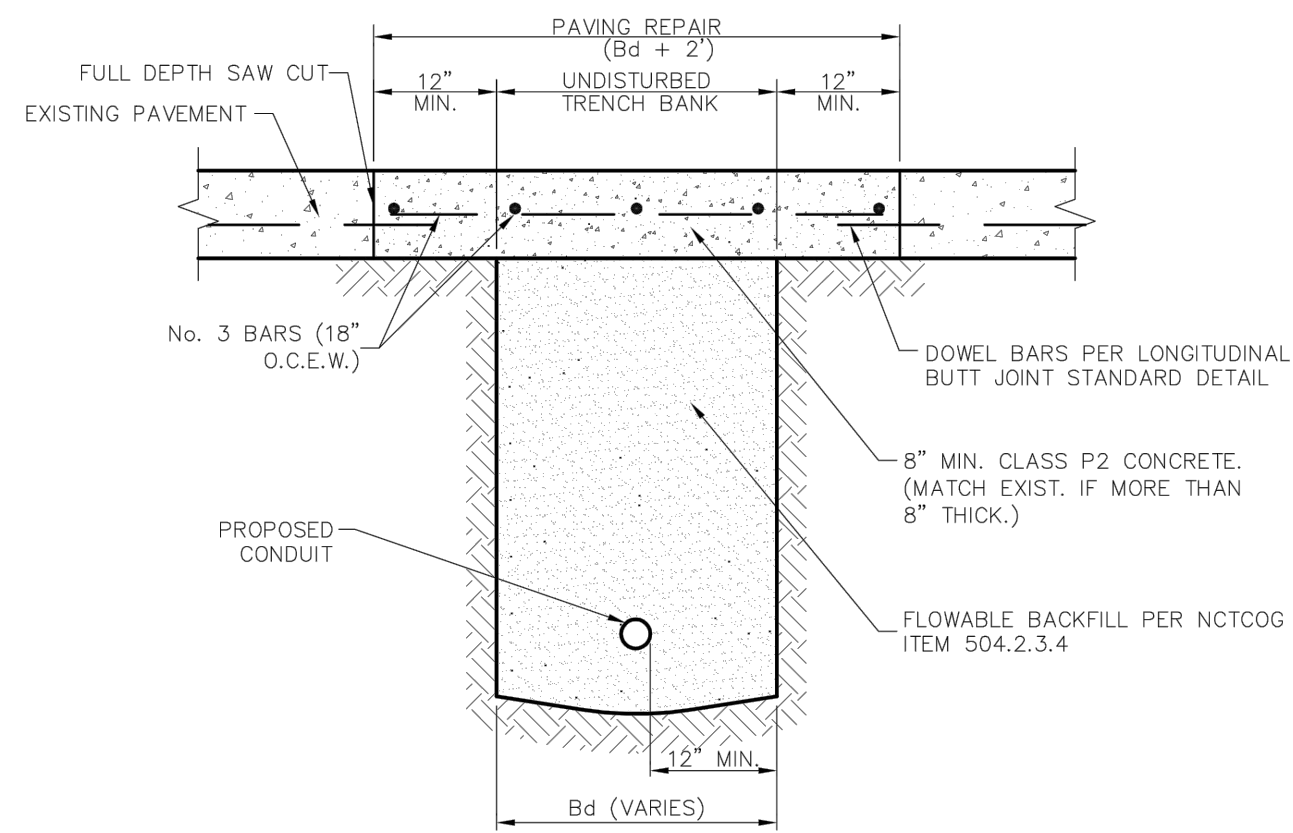
SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
PROJECT NO. 513301

STANDARD DETAILS  
EROSION CONTROL

**DANNENBAUM**  
ENGINEERING COMPANY - DALLAS, LLC  
T.B.P.E. FIRM REGISTRATION #8996  
3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

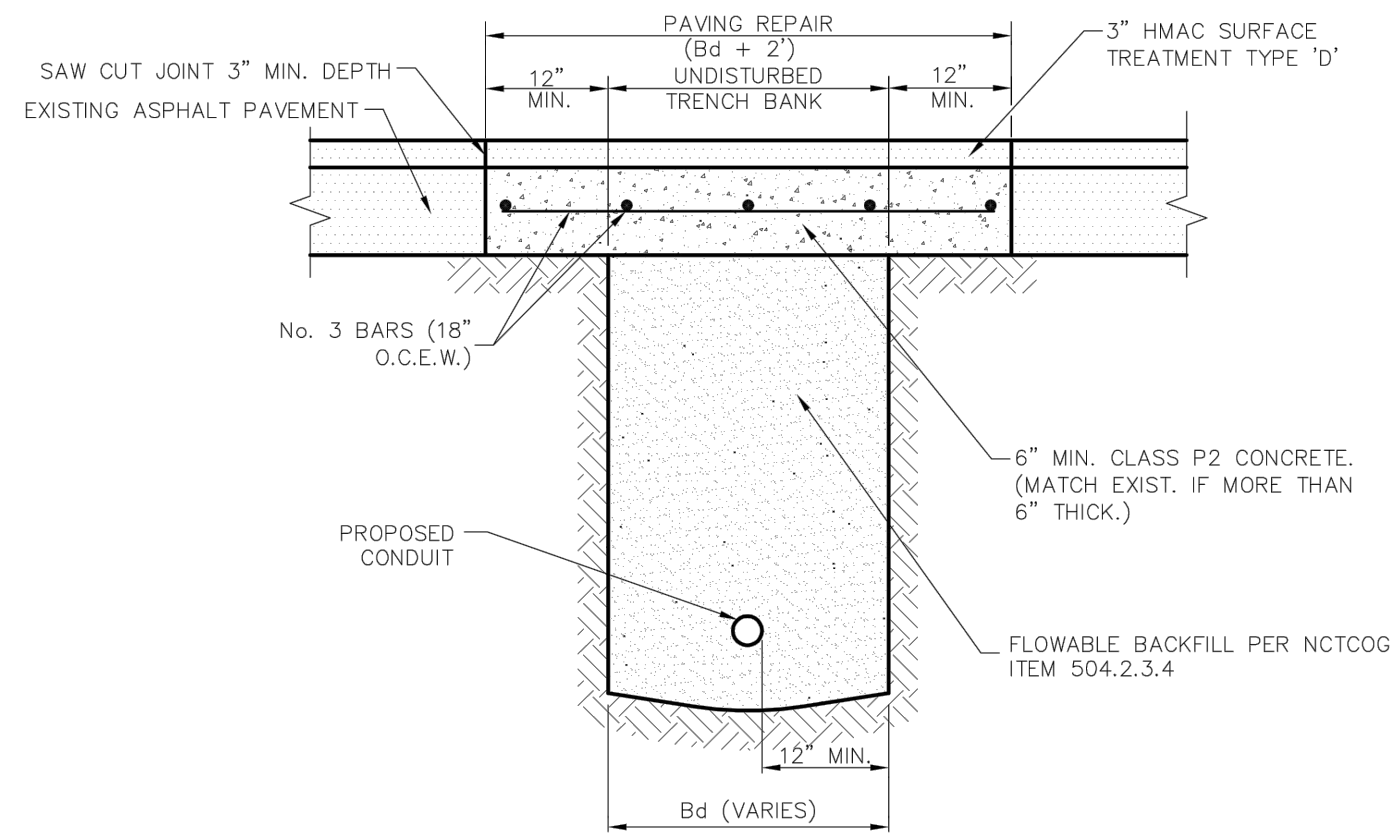
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| DESIGNED BY: WMB | DATE: 1/2/2020     |
| DRAWN BY: CMR    | PROJECT NO: 513301 |
| CHECKED BY: DEG  | DRAWING SCALE: NTS |

FILE: DETAILS\_PAVE.dwg SHEET NO: 30



- NOTES:**
1. REPAIRS SHALL EXTEND TO 1' BEYOND EACH SIDE OF TRENCH (Bd).
  2. REINFORCEMENT CHAIRS OR APPROVED DEVICE SHALL BE USED.
  3. REPAIRS SHALL MATCH EXISTING GRADE.

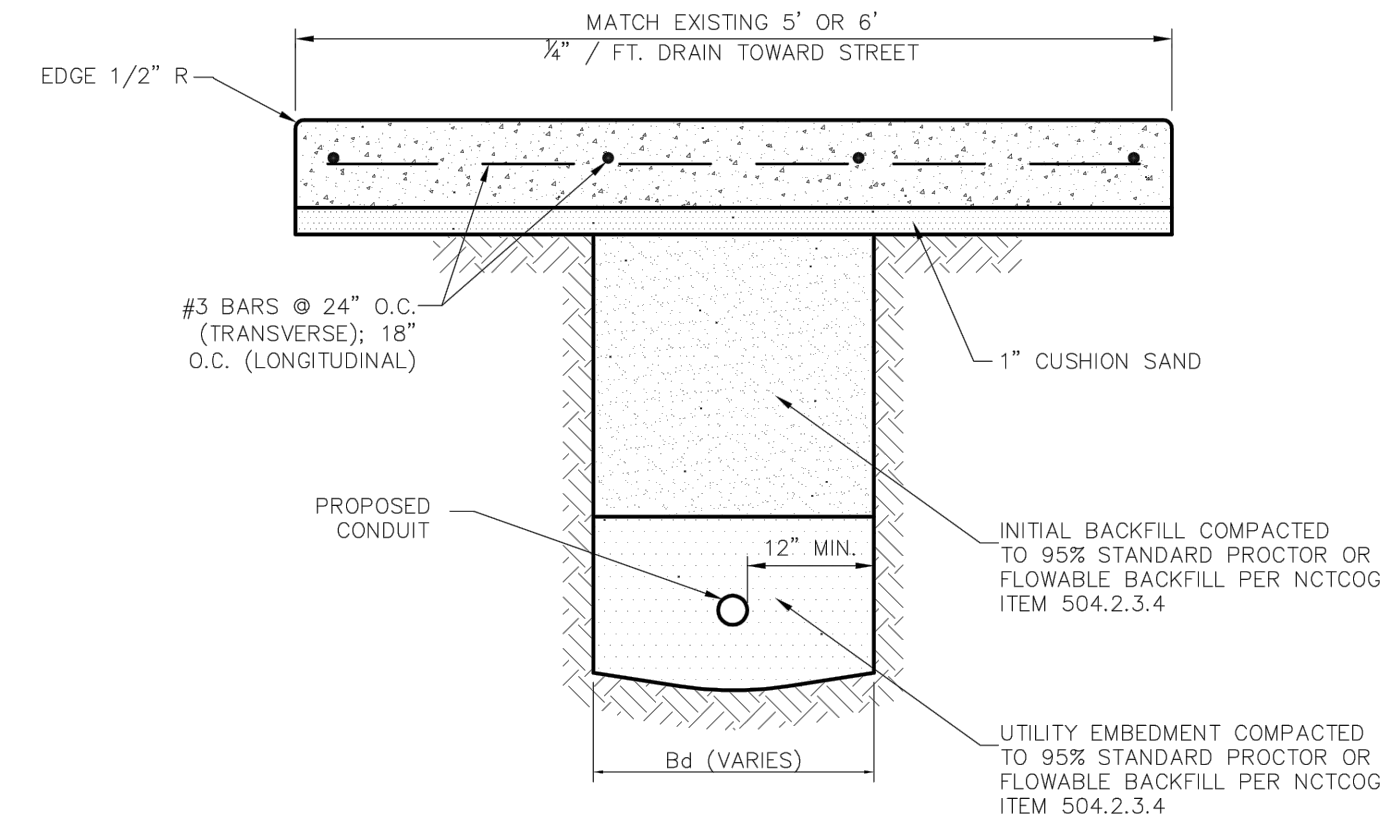
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|-----------------------------|--|---|-----------------|------------------|
| <br>PUBLIC WORKS DEPARTMENT | UTILITY INSTALLATION<br>BENEATH CONCRETE ROAD<br>SURFACE | STANDARD CONSTRUCTION DETAILS<br>UTILITIES TRENCHLINE & STREET<br>RESTORATION |                 |                  |
|                             |  | DATE:<br>AUGUST, 2010   | REV. DATE:<br>- | SHEET:<br>SD-U03 |



- NOTES:**
1. REPAIR SHALL EXTEND TO 1' BEYOND EACH SIDE OF TRENCH (Bd).
  2. REPAIRS SHALL MATCH EXISTING GRADE.

**UTILITY INSTALLATION BENEATH  
ASPHALT ROAD SURFACE**  
NTS

|                             |   |   |                 |                  |
|-----------------------------|---|---|-----------------|------------------|
| <br>PUBLIC WORKS DEPARTMENT | UTILITY INSTALLATION<br>BENEATH ASPHALT ROAD<br>SURFACE | STANDARD CONSTRUCTION DETAILS<br>UTILITIES TRENCHLINE & STREET<br>RESTORATION |                 |                  |
|                             |   | DATE:<br>AUGUST, 2010   | REV. DATE:<br>- | SHEET:<br>SD-U02 |



- NOTES:**
1. REPAIRS SHALL INCLUDE FULL PANELS FROM JOINT TO JOINT, AND ANY ADJACENT DAMAGED PANELS INDEPENDENT OF Bd.
  2. REINFORCEMENT CHAIRS OR APPROVED DEVICE SHALL BE USED.
  3. SEE CONCRETE SIDEWALK STANDARD DETAIL FOR SIDEWALK JOINT DETAIL.
  4. ALL DISTURBED AREAS SHALL BE SODDED (UNLESS OTHERWISE APPROVED).
  5. BACKFILL AND EMBEDMENT PARTICLE SIZE SHALL NOT EXCEED 3" IN ANY DIRECTION.
  6. CONNECT TO EXISTING SIDEWALK WITH BARS MATCHING EXISTING INSTALLATION.

|                             |  |   |                 |                  |
|-----------------------------|--|---|-----------------|------------------|
| <br>PUBLIC WORKS DEPARTMENT | UTILITY INSTALLATION<br>BENEATH SIDEWALK | STANDARD CONSTRUCTION DETAILS<br>UTILITIES TRENCHLINE & STREET<br>RESTORATION |                 |                  |
|                             |  | DATE:<br>AUGUST, 2010   | REV. DATE:<br>- | SHEET:<br>SD-U03 |

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WM BART HINES, P.E. No. 49126  
DATE 4/26/2021

**SURVEY CONTROL**  
CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL

**NOTE:** ALL COORDINATES ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE, NAD 83. ALL DISTANCES AND COORDINATES ARE EXPRESSED IN US SURVEY FEET. ALL DISTANCES AND COORDINATES ARE SURFACE AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SURFACE FACTOR OF 0.9998496003.

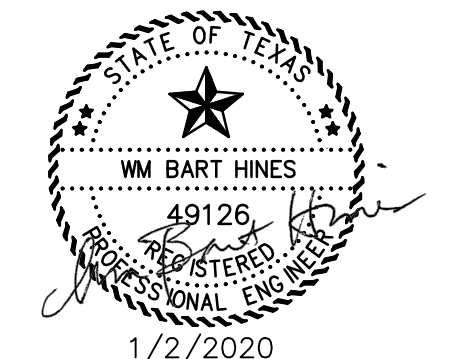
**FLOODPLAIN NOTE:** THE ENTIRE PROJECT IS LOCATED WITHIN ZONE 'X' (AREA OF MINIMAL FLOODING) PER FEMA FIRM MAP 48113C0180K, EFFECTIVE 07/07/2014.

THE LOCATION AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. IT IS CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY LOCATION, DEPTH AND DIMENSION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

**WARNING!** UNDERGROUND UTILITIES IN AREA OF CONSTRUCTION. CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATION IN THIS AREA.

|                                     |                |
|-------------------------------------|----------------|
| PUBLIC WORKS & ENGINEERING SERVICES | 972-450-2871   |
| TEXAS ONE CALL/DIG TESS             | 1-811-344-8377 |
| ONCOR                               | 1-888-313-6862 |
| AT&T                                | 1-800-331-0500 |
| SPECTRUM/CHARTER COMMUNICATIONS     | 1-888-438-2427 |
| ATMOS ENERGY                        | 1-888-286-6700 |

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**ADDISON, TEXAS  
PUBLIC WORKS &  
ENGINEERING SERVICES**

**SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
PROJECT NO. 513301**

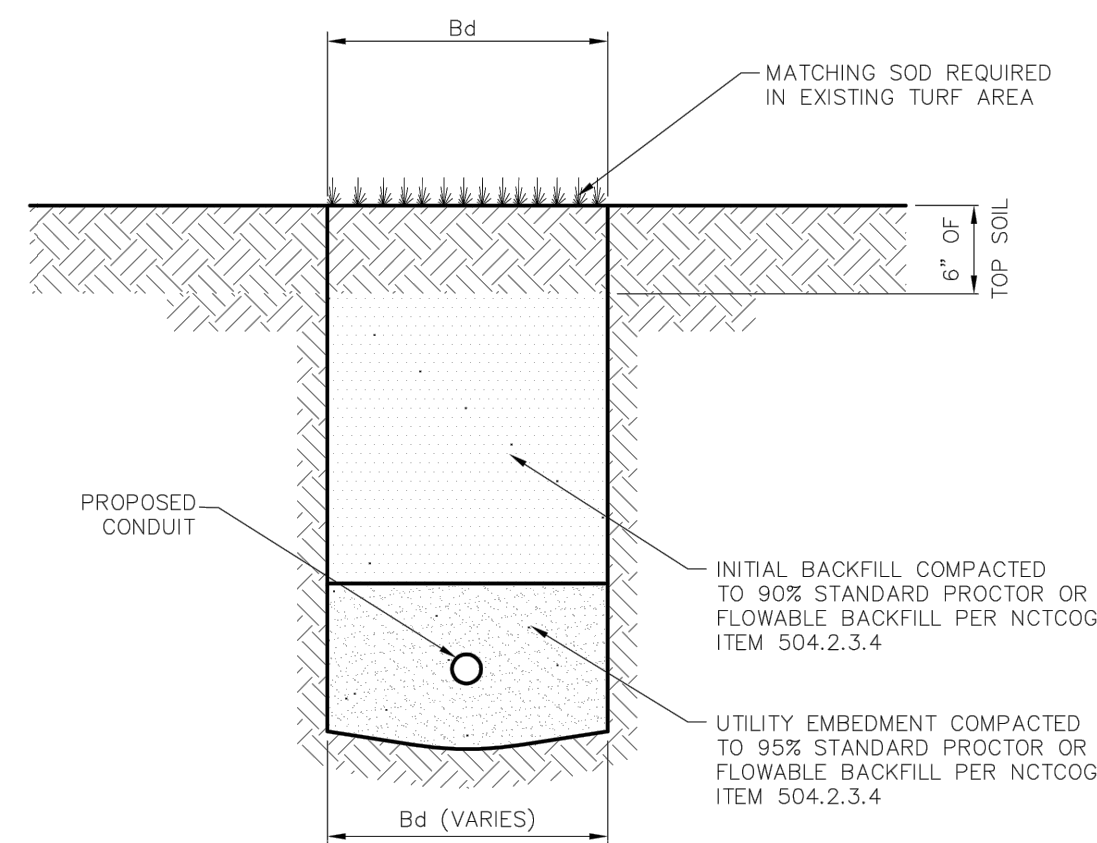
**STANDARD DETAILS TRENCHLINE  
& RESTORATION (1 OF 2)**

**DANNENBAUM**

ENGINEERING COMPANY - DALLAS, LLC  
T.B.P.E. FIRM REGISTRATION #8996  
3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

|                  |                    |
|------------------|--------------------|
| DESIGNED BY: WBH | DATE: 1/2/2020     |
| DRAWN BY: CMR    | PROJECT NO: 513301 |
| CHECKED BY: DEG  | DRAWING SCALE: NTS |

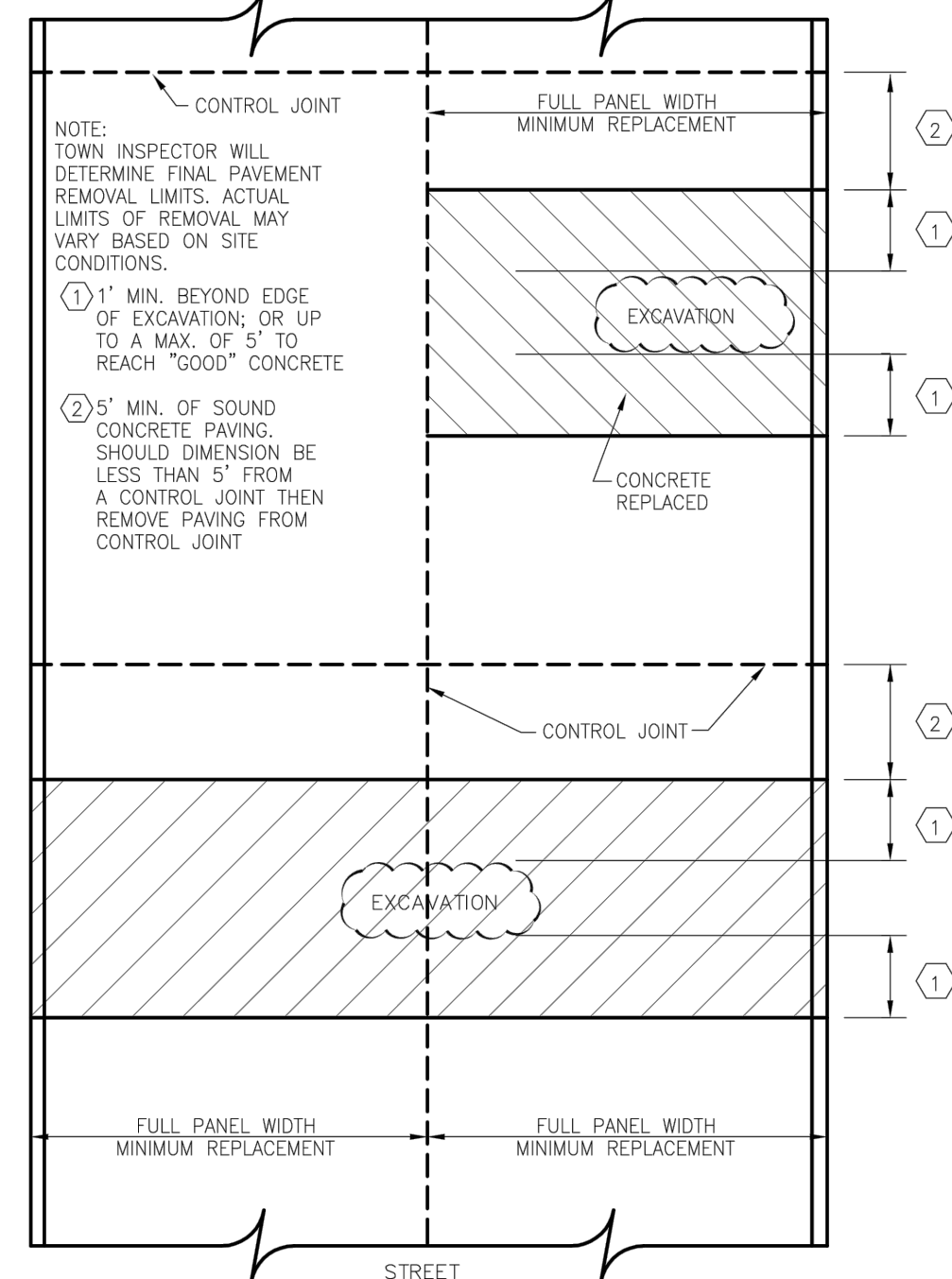
FILE: DETAILS\_PAVE.dwg SHEET NO: 31



- NOTES:**
1. ALL DISTURBED AREAS SHALL BE SODDED (UNLESS OTHERWISE APPROVED).
  2. BACKFILL AND EMBEDMENT PARTICLE SIZE SHALL NOT EXCEED 3" ANY DIRECTION.

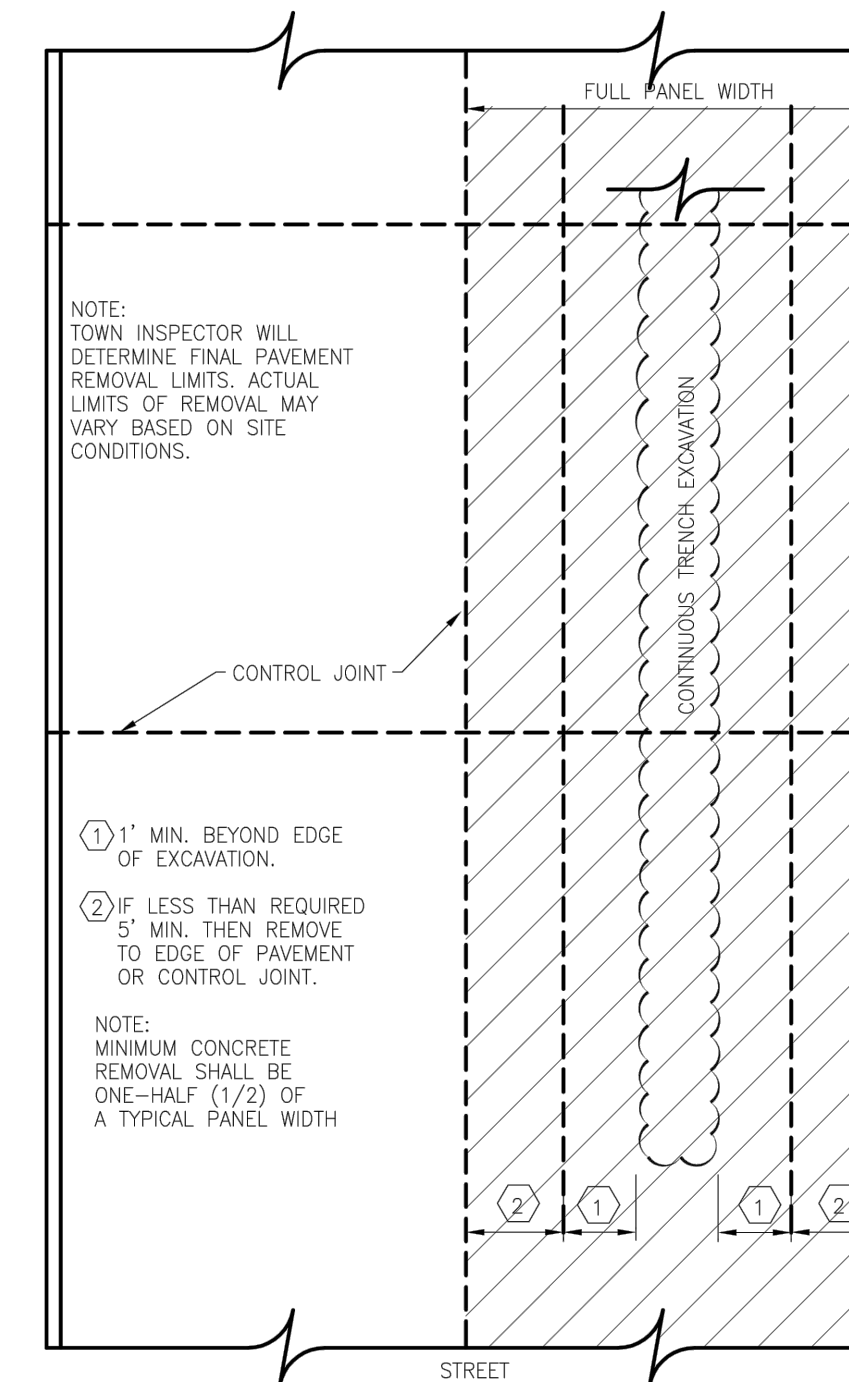
**UTILITY INSTALLATION WITHIN  
TURF AREAS**  
NTS

|                             |   |   |                 |                  |
|-----------------------------|---|---|-----------------|------------------|
| <br>PUBLIC WORKS DEPARTMENT | UTILITY INSTALLATION WITHIN<br>TURF AREAS | STANDARD CONSTRUCTION DETAILS<br>UTILITIES TRENCHLINE & STREET<br>RESTORATION |                 |                  |
|                             |   | DATE:<br>AUGUST, 2010   | REV. DATE:<br>- | SHEET:<br>SD-U04 |



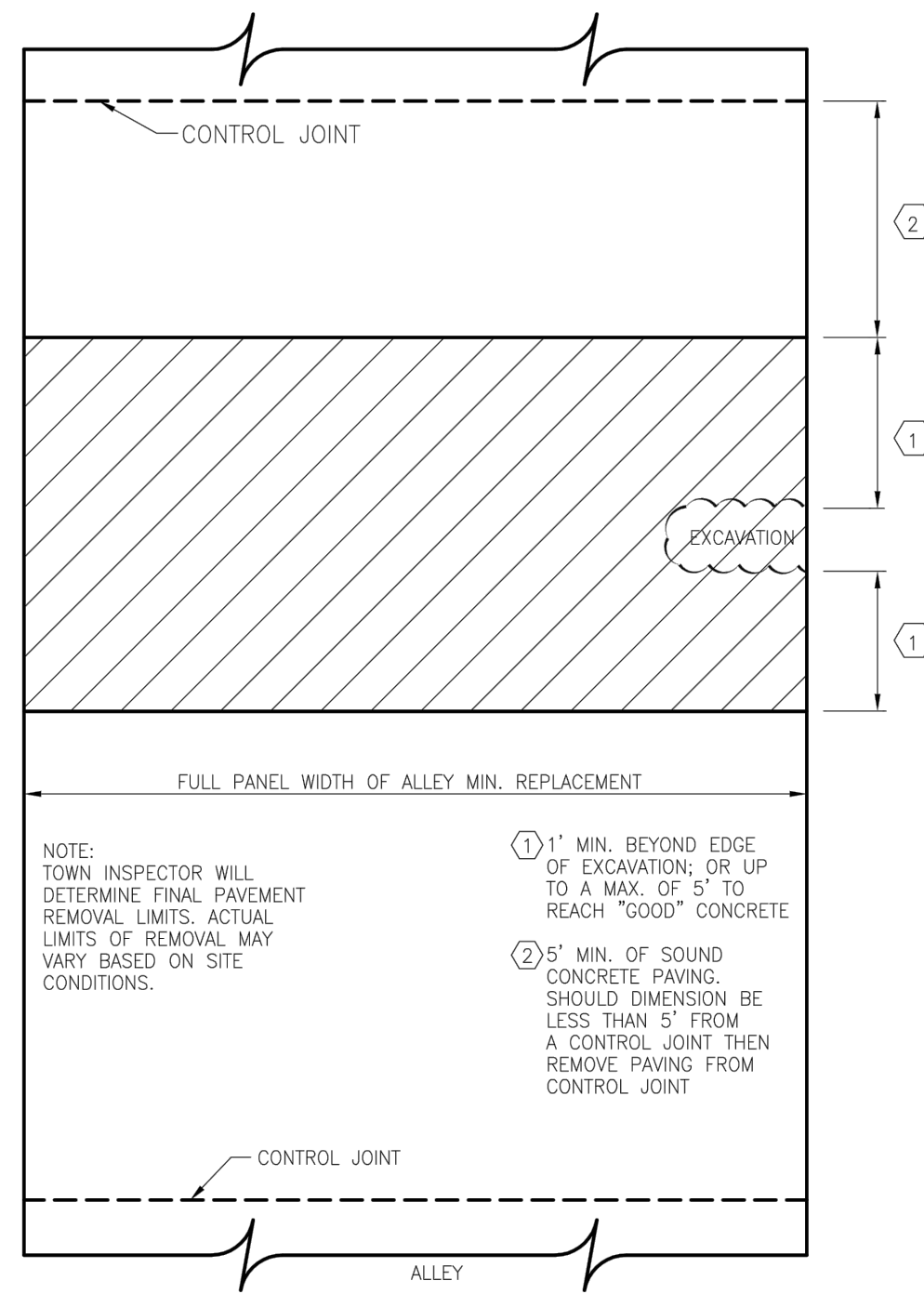
**TYPICAL CONCRETE STREET REMOVAL/REPLACEMENT  
EXAMPLE 1**

|                             |                                 |   |                 |                  |
|-----------------------------|---------------------------------|---|-----------------|------------------|
| <br>PUBLIC WORKS DEPARTMENT | STREET CUT REPAIRS<br>EXAMPLE 1 | STANDARD CONSTRUCTION DETAILS<br>UTILITIES TRENCHLINE & STREET<br>RESTORATION |                 |                  |
|                             |                                 | DATE:<br>AUGUST, 2010   | REV. DATE:<br>- | SHEET:<br>SD-U05 |



**TYPICAL CONCRETE STREET REMOVAL/REPLACEMENT  
EXAMPLE 2**

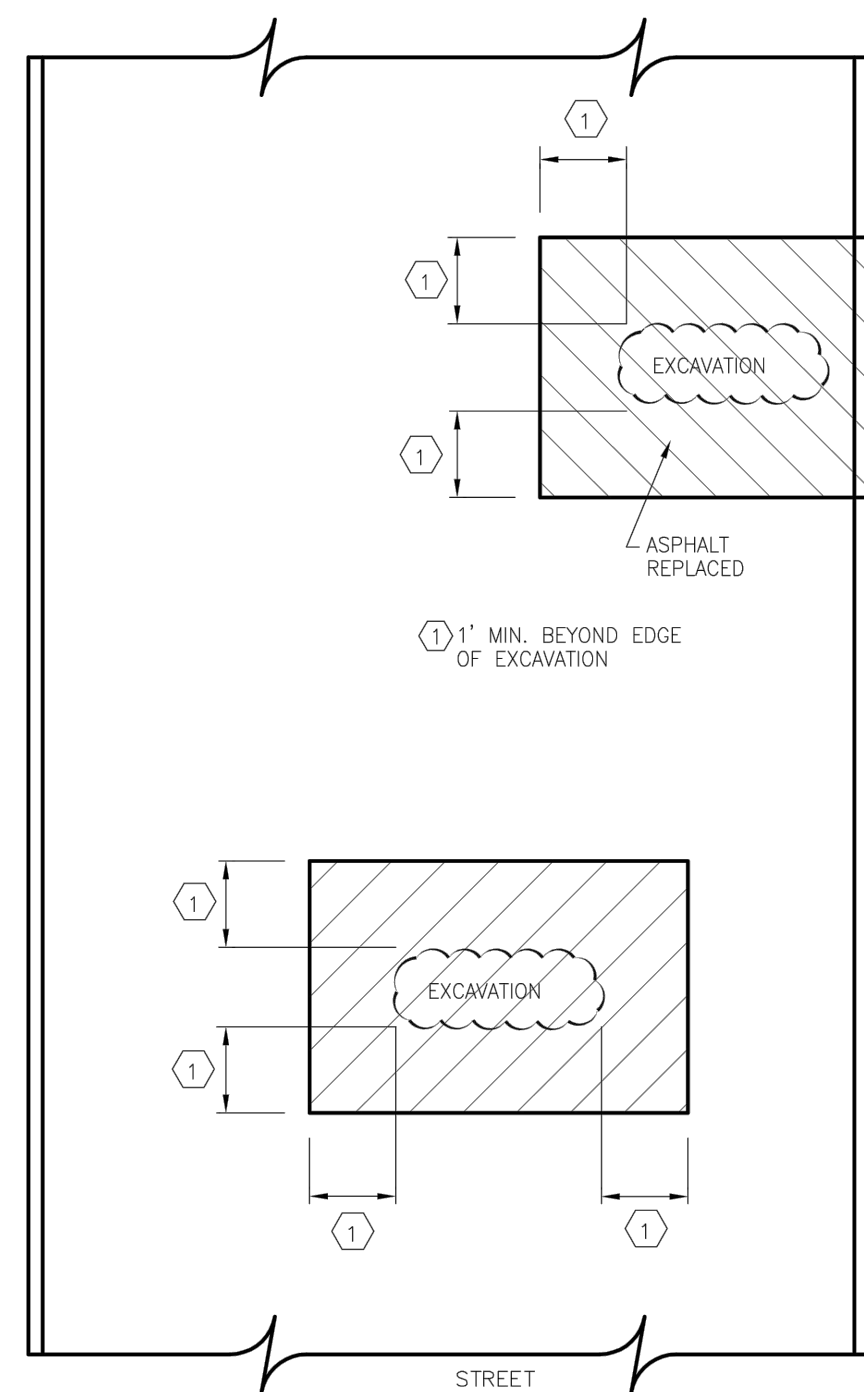
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|-----------------------------|---------------------------------|---|-----------------|------------------|
| <br>PUBLIC WORKS DEPARTMENT | STREET CUT REPAIRS<br>EXAMPLE 2 | STANDARD CONSTRUCTION DETAILS<br>UTILITIES TRENCHLINE & STREET<br>RESTORATION |                 |                  |
|                             |                                 | DATE:<br>AUGUST, 2010   | REV. DATE:<br>- | SHEET:<br>SD-U06 |



TYPICAL CONCRETE ALLEY REMOVAL/REPLACEMENT  
EXAMPLE 3

NOTE:  
TOWN INSPECTOR WILL  
DETERMINE FINAL PAVEMENT  
REMOVAL LIMITS. ACTUAL  
LIMITS OF REMOVAL MAY  
VARY BASED ON SITE  
CONDITIONS.

- ① 1' MIN. BEYOND EDGE OF EXCAVATION; OR UP TO A MAX. OF 5' TO REACH "GOOD" CONCRETE
- ② 5' MIN. OF SOUND CONCRETE PAVING. SHOULD DIMENSION BE LESS THAN 5' FROM A CONTROL JOINT THEN REMOVE PAVING FROM CONTROL JOINT



TYPICAL ASPHALT STREET REMOVAL/REPLACEMENT  
EXAMPLE 4

① 1' MIN. BEYOND EDGE OF EXCAVATION

STREET

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WM BART HINES, P.E. No. 49126  
DATE 4/26/2021

SURVEY CONTROL  
CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL  
NOTE: ALL COORDINATES ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE, NAD 83. ALL DISTANCES AND COORDINATES ARE EXPRESSED IN US SURVEY FEET. ALL DISTANCES AND COORDINATES ARE SURFACE AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SURFACE FACTOR OF 0.9998496003.

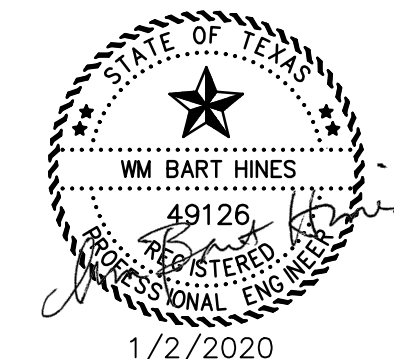
FLOODPLAIN NOTE: THE ENTIRE PROJECT IS LOCATED WITHIN ZONE 'X' (AREA OF MINIMAL FLOODING) PER FEMA FIRM MAP 48113C0180K, EFFECTIVE 07/07/2014.

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|                                     |                |
|-------------------------------------|----------------|
| PUBLIC WORKS & ENGINEERING SERVICES | 972-450-2871   |
| TEXAS ONE CALL/DIG TESS             | 1-811-344-8377 |
| ONCOR                               | 1-888-313-6862 |
| AT&T                                | 1-800-331-0500 |
| SPECTRUM/CHARTER COMMUNICATIONS     | 1-888-438-2427 |
| ATMOS ENERGY                        | 1-888-286-6700 |

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ADDISON, TEXAS  
PUBLIC WORKS &  
ENGINEERING SERVICES

SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
PROJECT NO. 513301

STANDARD DETAILS TRENCHLINE  
& RESTORATION (2 OF 2)

**DANNENBAUM**  
ENGINEERING COMPANY - DALLAS, LLC  
T.B.P.E. FIRM REGISTRATION #8996  
3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

|                        |                    |
|------------------------|--------------------|
| DESIGNED BY: WBH       | DATE: 1/2/2020     |
| DRAWN BY: CMR          | PROJECT NO: 513301 |
| CHECKED BY: DEG        | DRAWING SCALE: NTS |
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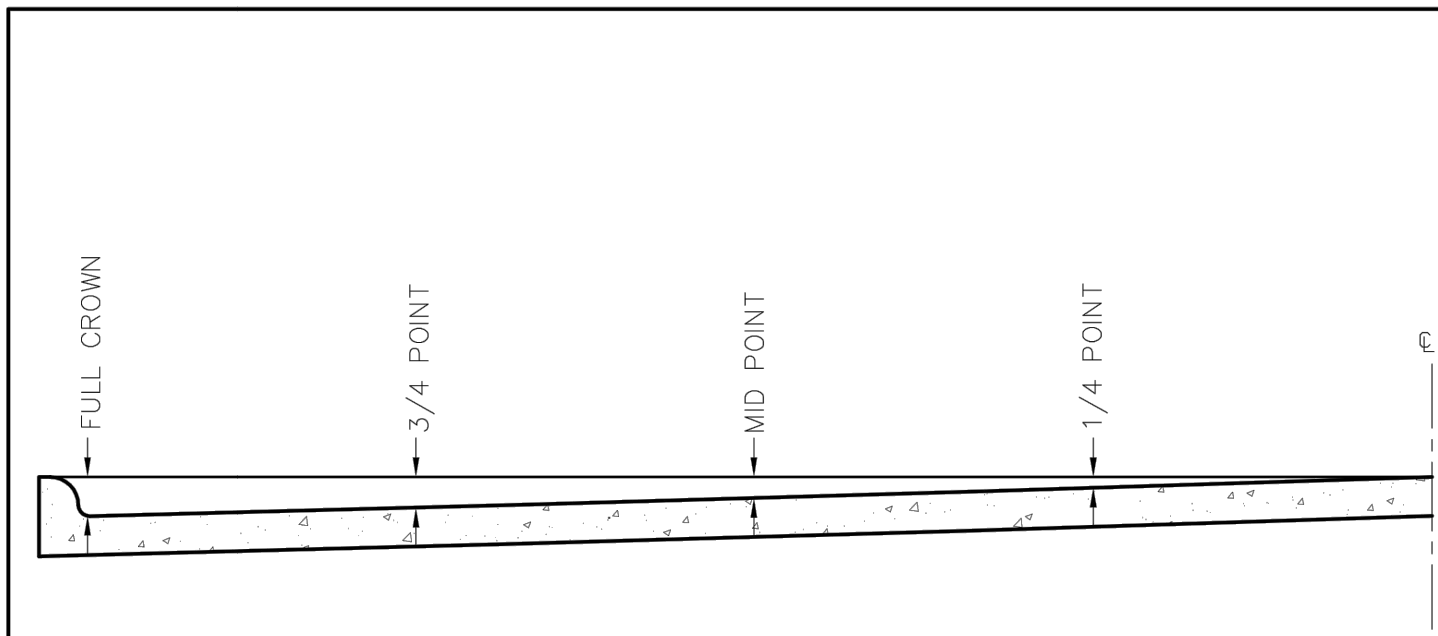
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| <br>PUBLIC WORKS DEPARTMENT | STREET CUT REPAIRS<br>EXAMPLE 3 | STANDARD CONSTRUCTION DETAILS<br>UTILITIES TRENCHLINE & STREET<br>RESTORATION |                |                  |
|                             |                                 | DATE:<br>AUGUST, 2010   | REV DATE:<br>— | SHEET:<br>SD-107 |

|                             |                                 |   |                |                  |
|-----------------------------|---------------------------------|---|----------------|------------------|
| <br>PUBLIC WORKS DEPARTMENT | STREET CUT REPAIRS<br>EXAMPLE 4 | STANDARD CONSTRUCTION DETAILS<br>UTILITIES TRENCHLINE & STREET<br>RESTORATION |                |                  |
|                             |                                 | DATE:<br>AUGUST, 2010   | REV DATE:<br>— | SHEET:<br>SD-108 |



PAVING — GENERAL NOTES

- GENERAL: PAVEMENT THICKNESS IS AS SHOWN IN ITEM 7. SUBGRADE DESIGN SHALL CONFORM TO TOWN OF ADDISON PUBLIC WORKS REQUIREMENTS IN ITEM 3, AND SHALL EXTEND 12" MIN. BEHIND THE BACK OF CURB.
- REINFORCED CONCRETE PAVEMENT:
  - CONCRETE STRENGTH SHALL BE AS SHOWN IN ITEM 7 (NCTCOG LATEST EDITION).
  - ALL CURBS SHALL BE INTEGRAL WITH PAVEMENT AND SHALL BE OF THE SAME STRENGTH AS CONCRETE PAVEMENT.
  - DETAIL AND ARRANGEMENT OF PAVEMENT JOINTS, ALL TYPES, SHALL BE AS SHOWN ON THE TOWN STANDARD CONSTRUCTION DETAILS.
  - BAR LAPS SHALL BE THIRTY DIAMETERS.
  - REINFORCING STEEL SHALL BE #3 REBAR (3/8") ON 18" CENTERS FOR 8" OR LESS, #4 FOR 10" OR ABOVE.
- SUBGRADE: SUBGRADE UNDER ALL PAVEMENT SHALL BE 6" THICK AND SHALL BE STABILIZED WITH AT LEAST 30 LBS. PER SQ. YD. HYDRATED LIME, COMPACTED TO A DENSITY NOT LESS THAN 95 PERCENT. LABORATORY TESTS MUST BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR APPROVAL TO DETERMINE AMOUNT OF LIME REQUIRED. LABORATORY TEST MAY BE WAIVED PROVIDED AT LEAST 36 LBS. OF LIME PER SQ. YD. IS USED. SEE NCTCOG ITEM 301.2 "LIME TREATMENT". FLEXIBLE BASE (CRUSHED STONE/CONCRETE) PER NCTCOG ITEM 301.5 MAY BE SUBSTITUTED FOR LIME TREATMENT WITH THE APPROVAL OF THE TOWN ENGINEER.
- REBAR SHALL BE SUPPORTED BY BAR CHAIRS OR OTHER DEVICES APPROVED BY TOWN ENGINEER.
- NO TRAFFIC ON FINISHED SUBGRADE SHALL BE PERMITTED AFTER REINFORCING STEEL IS INSTALLED ABOVE SUBGRADE. NO TRAFFIC SHALL BE PERMITTED BEFORE OR DURING THE PLACING OF CONCRETE.
- CROSS SLOPE OF STRAIGHT CROWN STREETS SHALL BE 1/4" PER FOOT UNLESS APPROVED BY THE TOWN ENGINEER.
- PAVEMENT THICKNESS AND STRENGTHS SHALL BE AS FOLLOWS:
  - MAJOR ARTERIAL — 10" CLASS "P1" OR "P2."
  - MINOR ARTERIAL — 8" CLASS "P1" OR "P2."
  - COMMERCIAL/INDUSTRIAL COLLECTOR — 8" CLASS "P1" OR "P2."
  - RESIDENTIAL COLLECTOR — 8" CLASS "P1" OR "P2."
  - RESIDENTIAL LOCAL — 8" CLASS "P1" OR "P2."
  - SIDEWALK AND BFR'S — 4" CLASS "A"
  - DRIVE APPROACH — 8" CLASS "P2"
  - ALLEY — 6" CLASS "P1" OR "P2."
- CONCRETE MIX DESIGN SHALL BE AS DEFINED BY NCTCOG 303.3.
- ALL MEDIANS AND PARKWAYS SHALL BE PROVIDED WITH BERMUDA GROUND COVER.
- ONCE A CURB ABUTTING A THOROUGHFARE HAS BEEN SAWCUT AND REMOVED, THE CONTRACTOR MUST REPLACE THE CONCRETE WITH A NEW POUR (I.E. DRIVEWAY) WITHIN 14 CALENDAR DAYS. LIQUIDATED DAMAGES WILL BE ASSESSED AT \$500 PER DAY FOR EACH CALENDAR DAY IN EXCESS OF 14 CALENDAR DAYS. PAYMENT SHALL BE MADE PRIOR TO ACCEPTANCE OR ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- ALL SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5% AND A MAXIMUM CROSS SLOPE OF 2%.
  - CONCRETE FOR ALLEY RETURNS AND DRIVEWAYS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS IDENTICAL TO THAT SPECIFIED FOR THE STREET PAVEMENT OR BASE WHEN BUILT AS COMPONENTS OF A CONCRETE PAVING PROJECT. WHEN BUILT SEPARATELY, THE STRENGTH SHALL BE AS SPECIFIED ON THE CONSTRUCTION PLAN.
  - SPACING AND CONSTRUCTION OF JOINTS SHALL CONFORM TO PARABOLIC STREET PAVEMENT.
- ALLEYS AND DRIVEWAYS

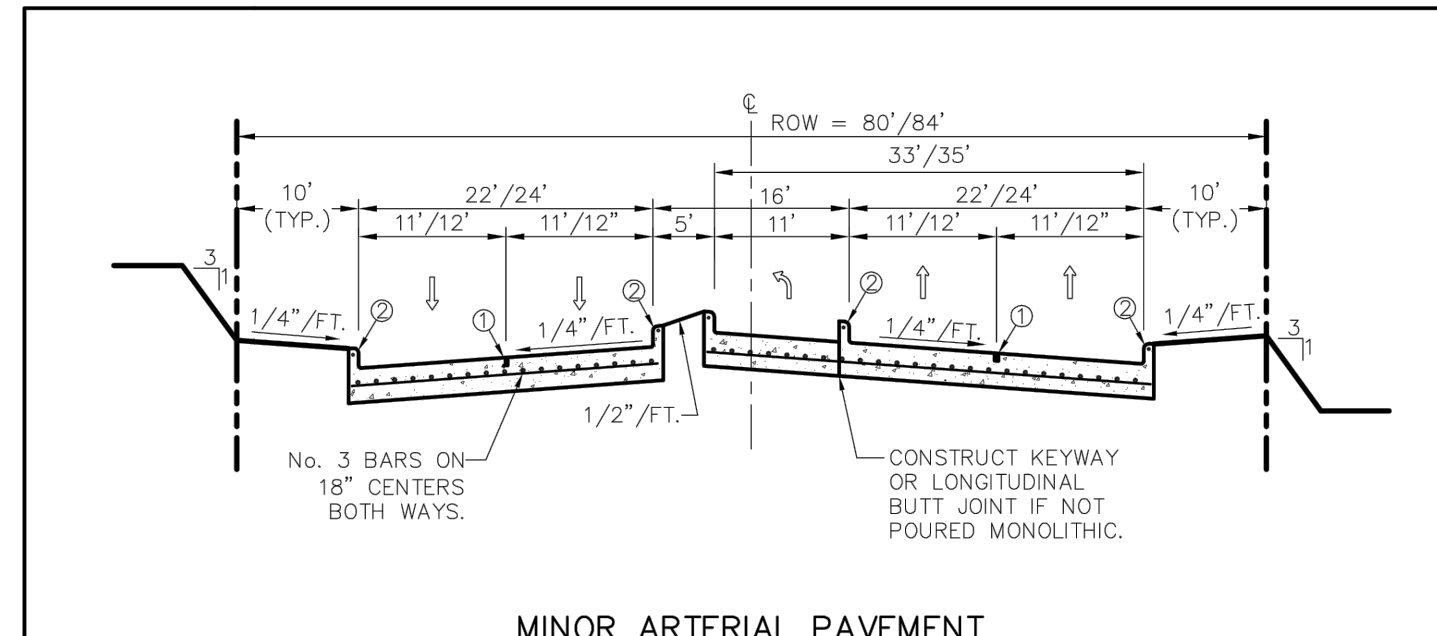


SLIP-FORM PAVEMENT MUST MEET CROWN GRADES AT GUTTERS, AT MID-POINTS AND CENTERLINE. WIDTHS OF PAVEMENT ARE FACE TO FACE.

| ROADWAY WIDTH (W) | TOTAL CROWN HEIGHT | 3/4 POINT | MID-POINT | 1/4 POINT |
|-------------------|--------------------|-----------|-----------|-----------|
| 27'               | 4"                 | 2-1/4"    | 1"        | 1/4"      |
| 36'               | 5"                 | 2-7/8"    | 1-1/4"    | 3/8"      |
| 44'               | 6"                 | 3-3/8"    | 1-1/2"    | 1/2"      |
| 48'               | 6"                 | 3-3/8"    | 1-1/2"    | 1/2"      |

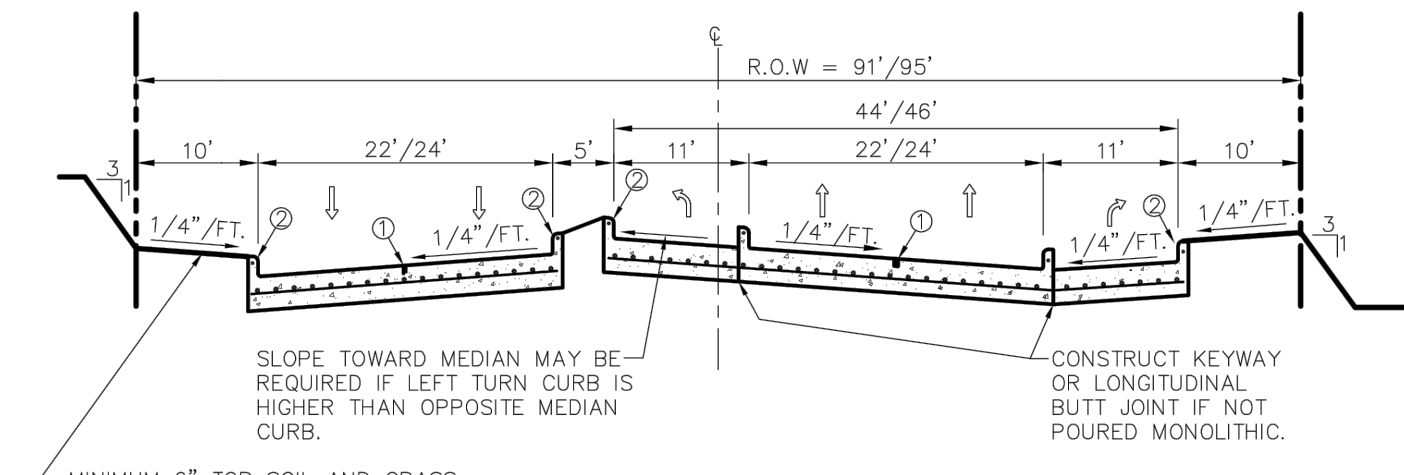
TABLE OF CROWN HEIGHTS AND ORDINATES FOR VARIOUS PARABOLIC SECTIONS

NTS



MINOR ARTERIAL PAVEMENT REGULAR SECTION

NTS



MINOR ARTERIAL PAVEMENT AT COLLECTOR OR GREATER SECTION

NTS

- ① SAWED LONGITUDINAL DUMMY JOINT
- ② REINFORCEMENT SHALL BE A CONTINUOUS No. 3 BAR.

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SURVEY CONTROL CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL

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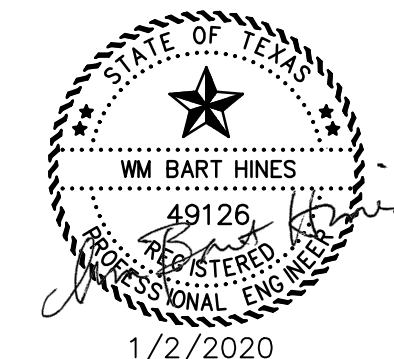
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- TEXAS ONE CALL/DIG TESS 1-811-344-8377
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- AT&T 1-800-331-0500
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- ATMOS ENERGY 1-888-286-6700

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|          |             |         |      |



ADDISON, TEXAS PUBLIC WORKS & ENGINEERING SERVICES

SANITARY SEWER RE-ROUTE TO MIDWAY ROAD PROJECT NO. 513301

STANDARD DETAILS PAVING (1 OF 2)

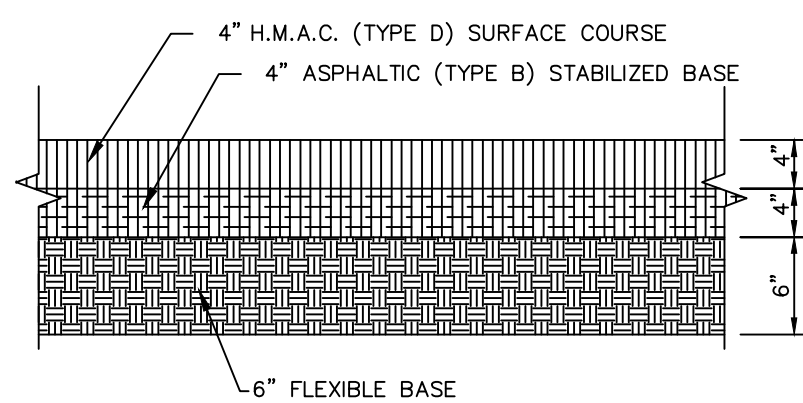
**DANNENBAUM** ENGINEERING COMPANY - DALLAS, LLC T.B.P.E. FIRM REGISTRATION #8996 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

DESIGNED BY: WBH DATE: 1/2/2020

DRAWN BY: CMR PROJECT NO: 513301

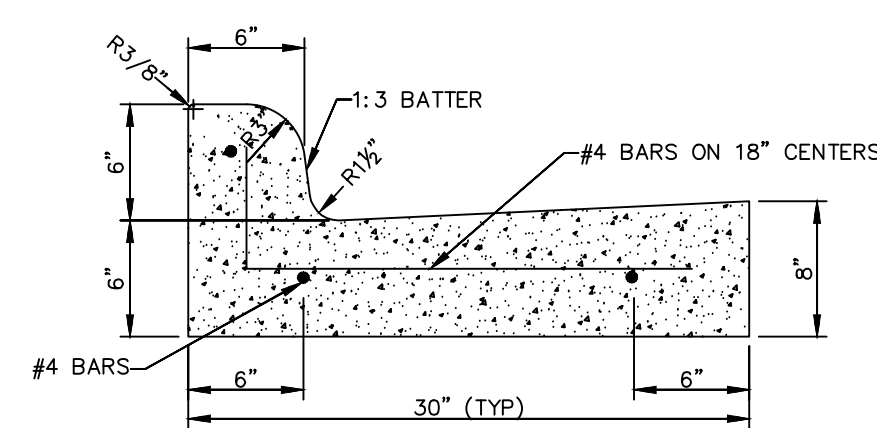
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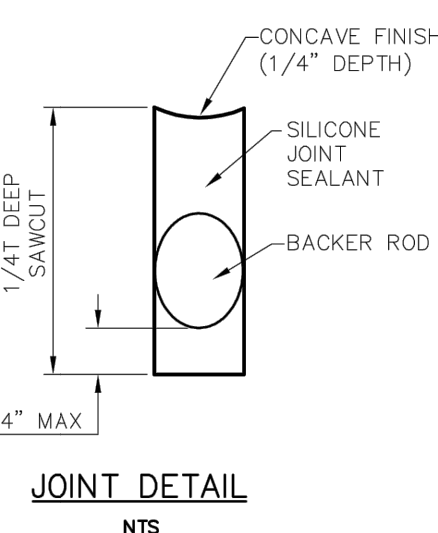
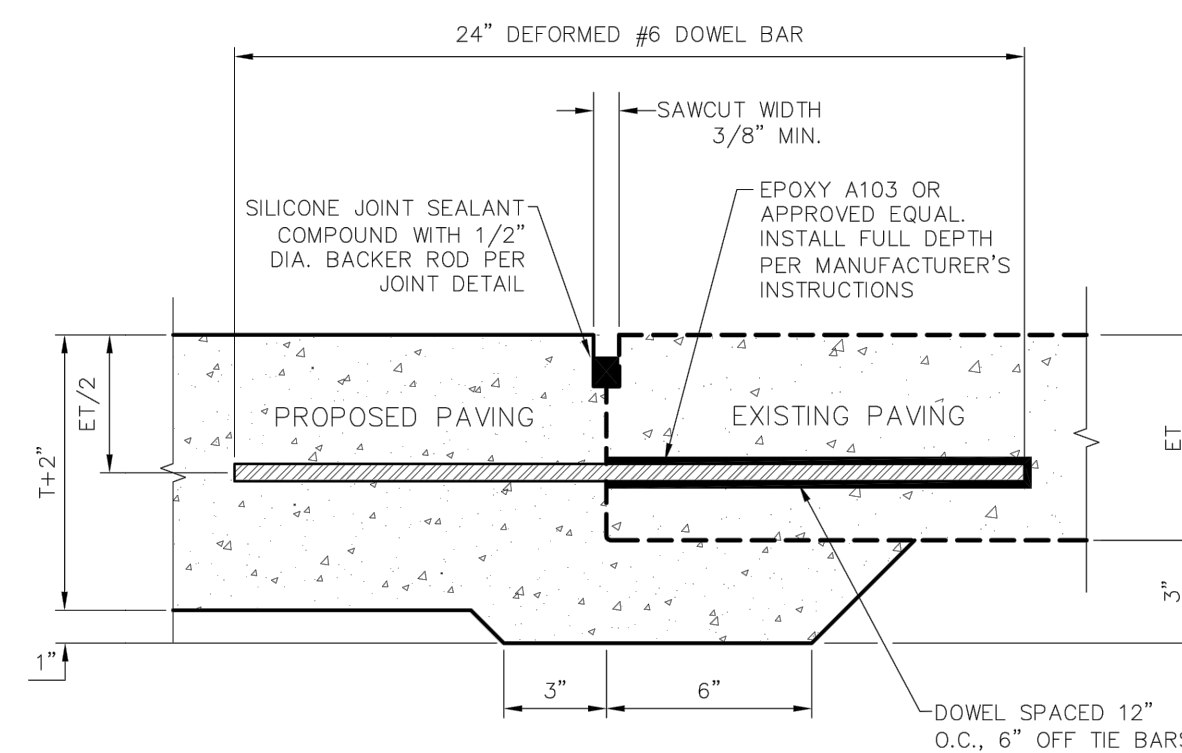


ASPHALT PAVING CROSS SECTION

NOTE: CUT OF 6" INTO EXISTING PAVEMENT IS REQUIRED FOR CONSTRUCTION JOINT WITH NEW POURS TO GET A SMOOTH FINISH.



CURB AND GUTTER & ASPHALT PAVING CROSS SECTION



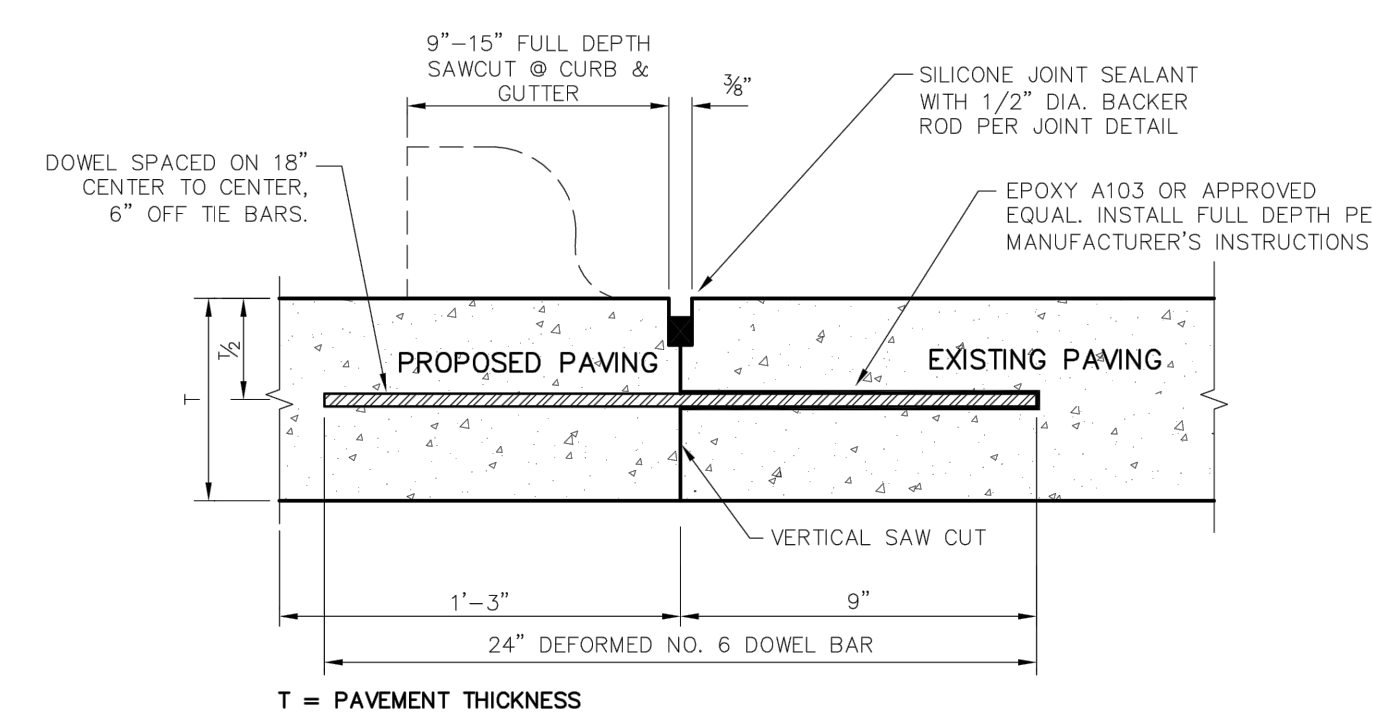
PAVEMENT REPAIR HEADER

NTS

T (FOR BELTWAY DR & BETWOOD PKWY) = 8"  
T (FOR ALLEYS & PARKINGLOTS) = 8"  
T (FOR MIDWAY RD) = 8"

- NOTE:
- NO. 5 DEFORMED DOWEL BAR MAY BE USED IN 6 INCH PAVEMENT.
  - DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG.
  - DRILLING BY HAND IS NOT ACCEPTABLE. PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.

T=PROPOSED PAVEMENT THICKNESS  
ET=EXISTING PAVEMENT THICKNESS



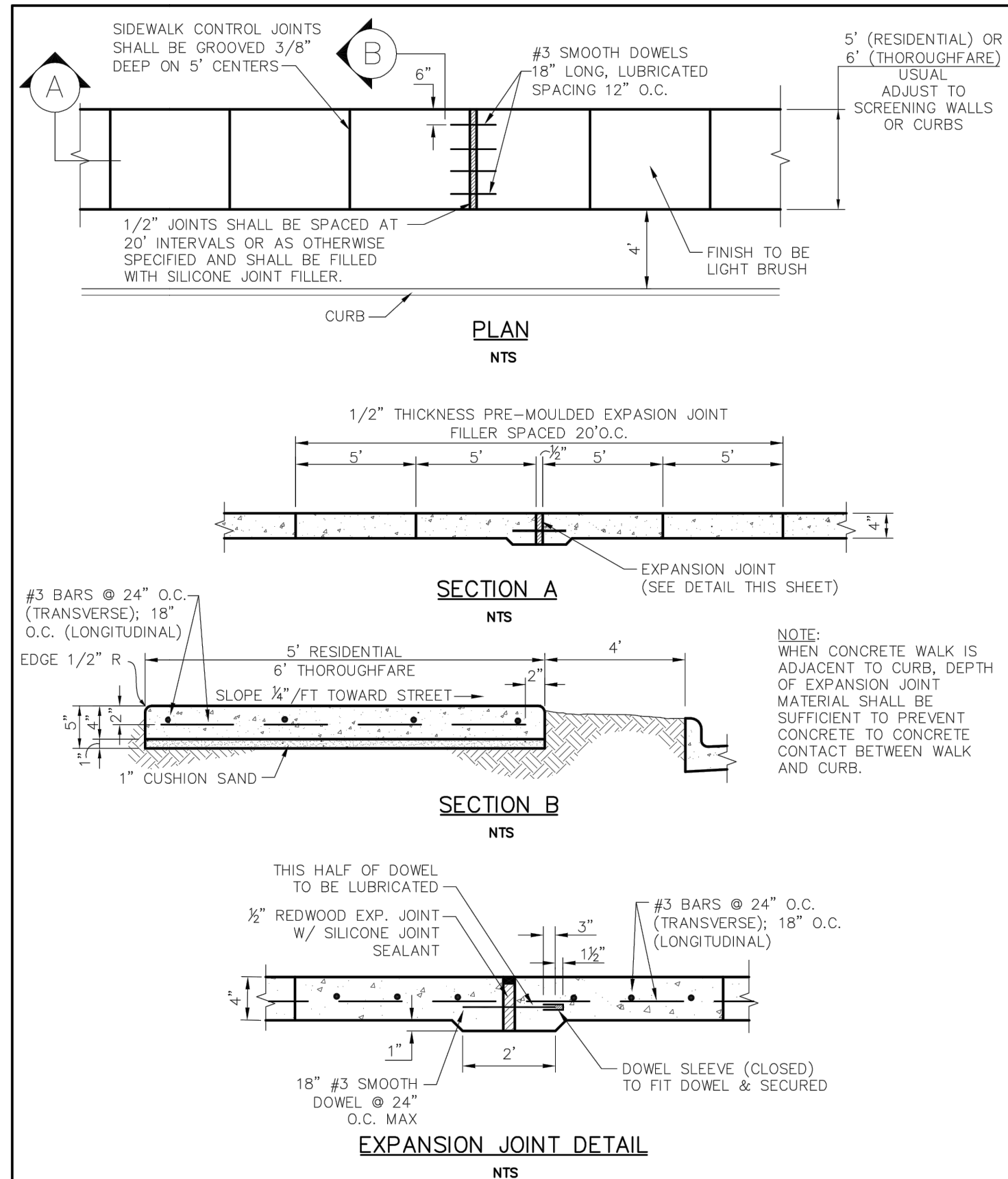
- NOTES:
- NO. 5 DEFORMED BAR MAY BE USED IN 6 INCH PAVEMENT.
  - LONGITUDINAL BUTT CONSTRUCTION MAY BE UTILIZED IN PLACE OF LONGITUDINAL HINGED (KEYWAY) JOINT AT CONTRACTORS OPTION.
  - DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG.
  - DRILLING BY HAND IS NOT ACCEPTABLE. PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.

JOINT DETAIL

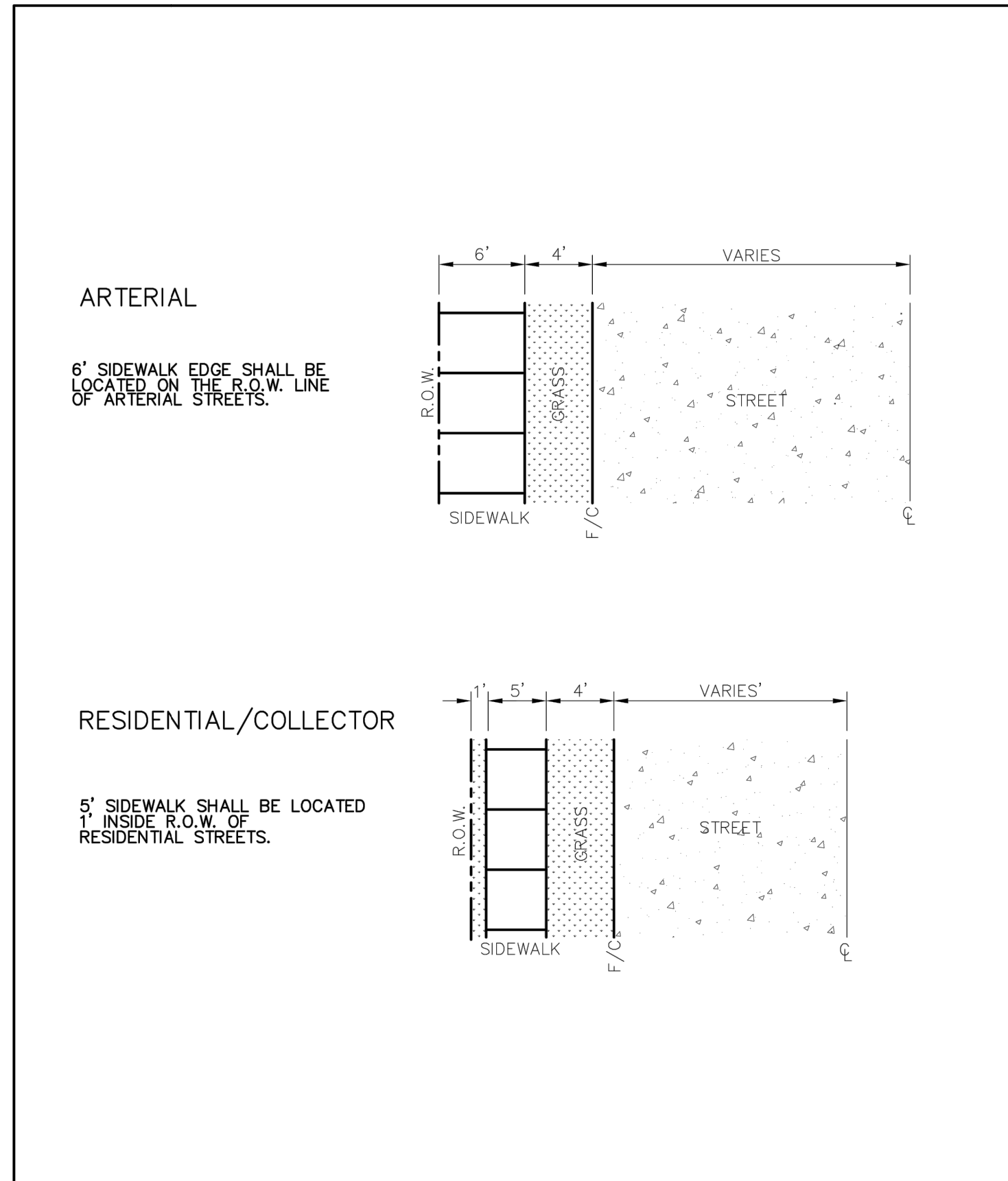
NTS

LONGITUDINAL BUTT JOINT

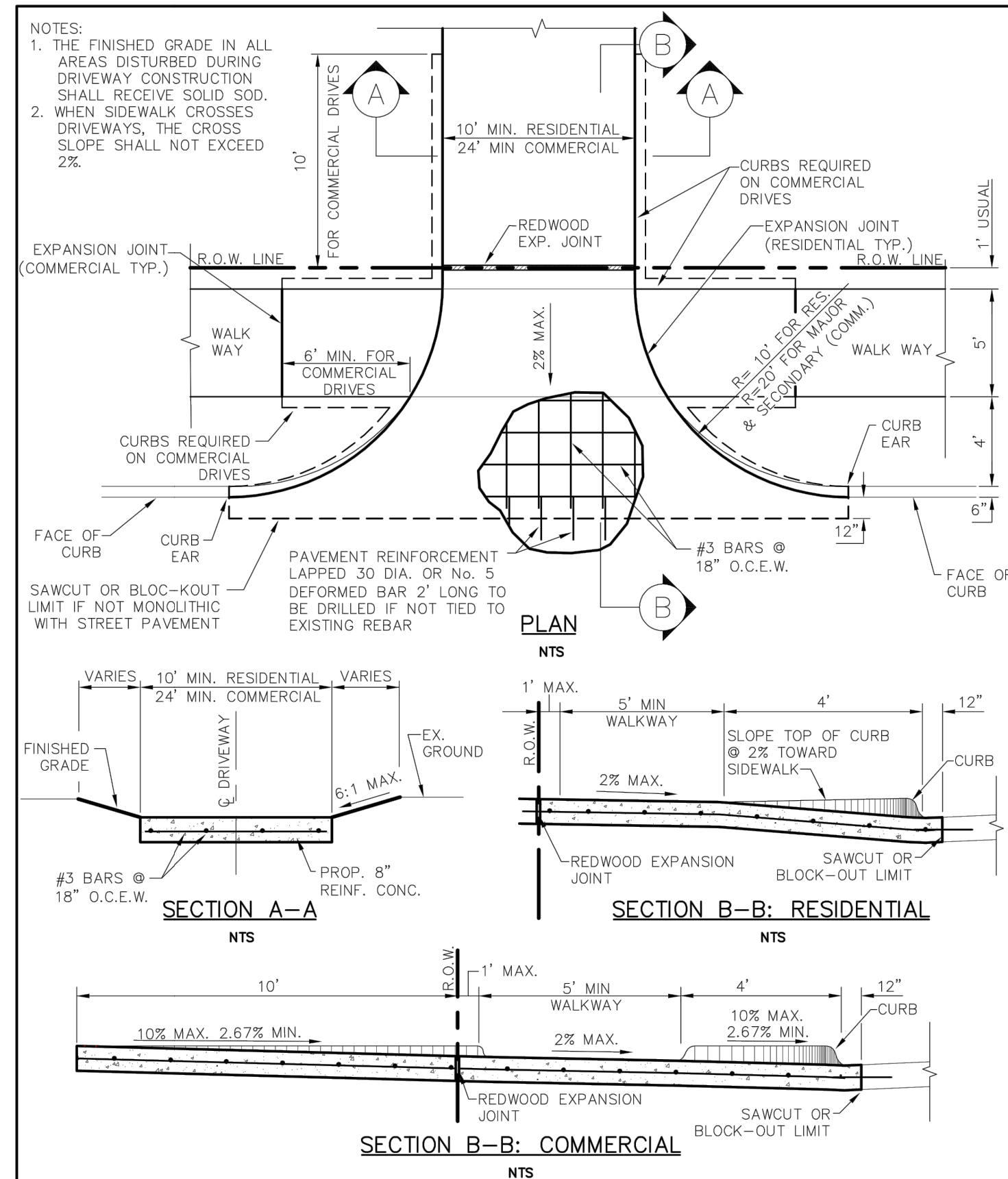
NTS



|                             |                   |                                      |              |               |
|-----------------------------|-------------------|--------------------------------------|--------------|---------------|
| <br>PUBLIC WORKS DEPARTMENT | CONCRETE SIDEWALK | STANDARD CONSTRUCTION DETAILS PAVING |              |               |
|                             |                   | DATE: AUGUST, 2010                   | REV. DATE: - | SHEET: SP-126 |



|                             |                             |                                      |              |               |
|-----------------------------|-----------------------------|--------------------------------------|--------------|---------------|
| <br>PUBLIC WORKS DEPARTMENT | CONCRETE SIDEWALK CONTINUED | STANDARD CONSTRUCTION DETAILS PAVING |              |               |
|                             |                             | DATE: AUGUST, 2010                   | REV. DATE: - | SHEET: SP-127 |



|                             |                         |                                      |              |               |
|-----------------------------|-------------------------|--------------------------------------|--------------|---------------|
| <br>PUBLIC WORKS DEPARTMENT | DRIVEWAY RETURN DETAILS | STANDARD CONSTRUCTION DETAILS PAVING |              |               |
|                             |                         | DATE: AUGUST, 2010                   | REV. DATE: - | SHEET: SP-128 |

THIS RECORD DRAWING IS A COMPILATION OF A COPY OF THE SEALED ENGINEERING DRAWING FOR THIS PROJECT; MODIFIED BY ADDENDA, CHANGE ORDERS, AND INFORMATION FURNISHED BY THE CONTRACTOR. THE INFORMATION SHOWN ON THE RECORD DRAWINGS, THAT WAS PROVIDED BY THE CONTRACTOR OR OTHERS NOT ASSOCIATED WITH THE DESIGN ENGINEER, CANNOT BE VERIFIED FOR ACCURACY OR COMPLETENESS. THE ORIGINAL SEALED DRAWINGS ARE ON FILE AT THE OFFICES OF THE TOWN OF ADDISON. WM BART HINES, P.E. No. 49126 DATE 4/26/2021

**SURVEY CONTROL**  
CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL

NOTE: ALL COORDINATES ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE, NAD 83. ALL DISTANCES AND COORDINATES ARE EXPRESSED IN US SURVEY FEET. ALL DISTANCES AND COORDINATES ARE SURFACE AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SURFACE FACTOR OF 0.9998496003.

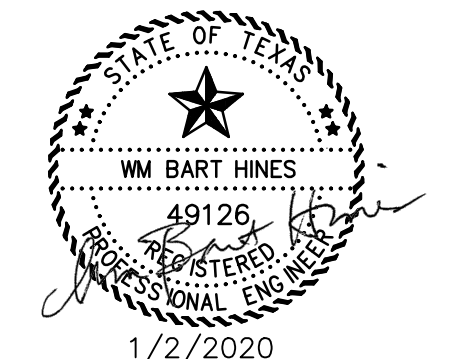
**FLOODPLAIN NOTE:** THE ENTIRE PROJECT IS LOCATED WITHIN ZONE 'X' (AREA OF MINIMAL FLOODING) PER FEMA FIRM MAP 48113C0180K, EFFECTIVE 07/07/2014.

THE LOCATION AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. IT IS CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY LOCATION, DEPTH AND DIMENSION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

**WARNING!** UNDERGROUND UTILITIES IN AREA OF CONSTRUCTION. CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATION IN THIS AREA.

|                                     |                |
|-------------------------------------|----------------|
| PUBLIC WORKS & ENGINEERING SERVICES | 972-450-2871   |
| TEXAS ONE CALL/DIG TESS             | 1-811-344-8377 |
| ONCOR                               | 1-888-313-6862 |
| AT&T                                | 1-800-331-0500 |
| SPECTRUM/CHARTER COMMUNICATIONS     | 1-888-438-2427 |
| ATMOS ENERGY                        | 1-888-286-6700 |

| REV. NO. | DESCRIPTION | CHK. BY | DATE |
|----------|-------------|---------|------|
|          |             |         |      |



ADDISON, TEXAS  
PUBLIC WORKS &  
ENGINEERING SERVICES

SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
PROJECT NO. 513301

STANDARD DETAILS PAVING  
(2 OF 2)

**DANNENBAUM**  
ENGINEERING COMPANY - DALLAS, LLC  
T.B.P.E. FIRM REGISTRATION #8996  
3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

|                        |                    |
|------------------------|--------------------|
| DESIGNED BY: WBH       | DATE: 1/2/2020     |
| DRAWN BY: CMR          | PROJECT NO: 513301 |
| CHECKED BY: DEG        | DRAWING SCALE: NTS |
| FILE: DETAILS_PAVE.dwg | SHEET NO: 34       |