

# 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

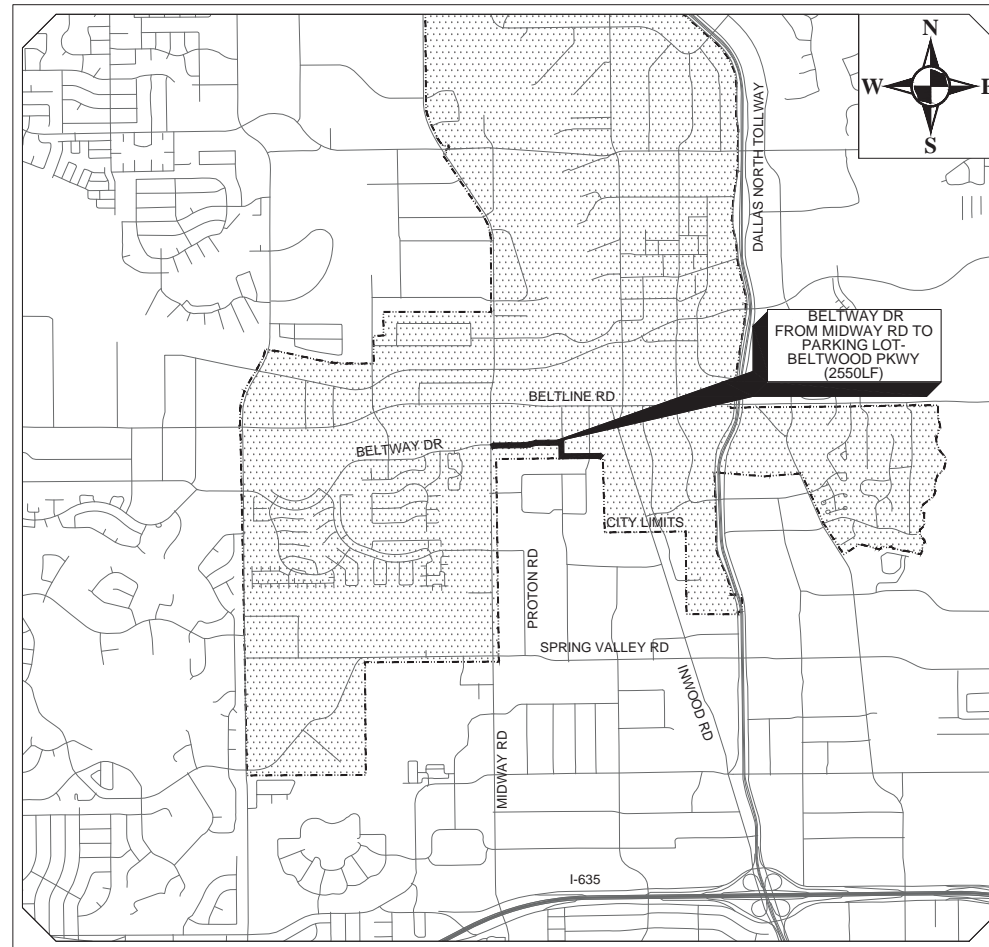
COUNCIL

Tom Braun	Mayor Pro Tempore
Lori Ward	Deputy Mayor Pro Tempore
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Ivan Hughes	Council Member
Guillermo Quintanilla	Council Member
Marlin Willesen	Council Member

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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.

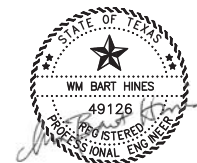


CONTACT BY CALLING 811 OR USING GEOREMOTE OR  
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FOR MORE INFORMATION SEE www.texas811.org

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

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1/2/2020

SUBMITTED BY: Wm. Bart Hines DATE: 1/2/2020

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

APPROVED BY: Wilson K. Kakembo DATE: 1/2/2020

Wilson K. Kakembo, P.E.

REV. NO.	DESCRIPTION	CHK. BY	DATE

G:\1220\5133-01 Addison Basin\_1 Final Design\CAD\Sheets\... \XREF\border\abor.dwg  
 PLOTTED: Jan 02, 2020 -- 1:52pm  
 Crystal Reed

**GENERAL NOTE**

- 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.
- 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.
- 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.
- 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.
- ALL CONTRACTORS MUST CONFINE 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.
- 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**

- 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).
- APPROVED PERMITS FROM AGENCIES OTHER THAN THE TOWN SHALL BE SUBMITTED TO THE TOWN.
- ALL PLANS SHALL BE PREPARED BY A PROFESSIONAL CIVIL ENGINEER LICENSED IN THE STATE OF TEXAS.
- MINIMUM COVER FOR WATERLINES IS 48" OR AS REQUIRED TO CLEAR EXISTING UTILITIES, WHICHEVER IS GREATER.
- 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).
- MARKING TAPE SHALL BE INSTALLED OVER PVC WATER LINES.
- 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).
- VALVES SHALL BE MUELLER RESILIENT SEAT GATE VALVES.
- 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.
- FIRE HYDRANTS SHALL BE MUELLER SUPER CENTURION AND BE FIELD PAINTED AND COLOR CODED AS DIRECTED BY THE TOWN.
- 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.
- 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**

- 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.
- NO WASTEWATER MAIN, OTHER THAN LATERALS AND FORCE MAINS, SHALL BE LESS THAN EIGHT-INCH (8") IN DIAMETER.
- PERMITS FROM AGENCIES OTHER THAN THE TOWN MUST BE SUBMITTED THROUGH THE TOWN.
- 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.
- THE SIZES AND LOCATIONS OF MANHOLES, WYES, BENDS, TAP CONNECTIONS, ETC., SHALL BE APPROVED BY THE TOWN ENGINEER.
- PUBLIC WASTEWATER MAIN SHALL BE LOCATED AT LEAST FIVE FEET (5') FROM ANY TREE UNLESS APPROVED BY THE PUBLIC WORKS & ENGINEERING SERVICES.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.

- 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.
- IF ANY CONFLICT ARISES BETWEEN THESE GENERALS NOTES AND ANY OTHER NOTES FOUND IN THE PLANS, THE ADDISON GENERAL NOTES SHALL TAKE PRECEDENCE.
- 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 THE PARCEL 5 (PLAN SHEET 5) FOR A STAGING AREA FOR THIS PROJECT.
- 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.
- 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.
- 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
- METER BOXES SHALL BE AS APPROVED BY THE TOWN CONTACT THE TOWN ENGINEER FOR SPECIFICATIONS. METER BOX SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
- 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 APWES
- ALL FIRE HYDRANTS INSTALLED FOR USE IN THE TOWN OF ADDISON SHALL MEET OR EXCEED AWWA STANDARD C502-85 (MOST CURRENT REVISION).
- 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).
- ALL HYDRANTS SHALL BE MANUFACTURED IN THE UNITED STATES.
- HYDRANT SHALL BE WARRANTED BY THE MANUFACTURER FOR A MINIMUM OF 5 YEARS.
- LARGE FIRE SERVICES SHALL, AT MINIMUM, CONSIST OF A DOUBLE-CHECK DETECTOR ASSEMBLY (DCDA) IN A VAULT (SEE TOA STANDARD CONSTRUCTION DETAIL SD-W22), PLACED WITHIN THE ROW OR A WATER EASEMENT.
- 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 "DEMARCATION VALVE" AND A 2" SERVICE TAP TO BE INSTALLED ON THE UPSTREAM SIDE OF THE VALVE AT THE PROPERTY LINE.
- THERE SHALL BE NO TAPS OR T'S INSTALLED BETWEEN THAT VALVE AND THE FIRE SERVICE RISER.
- ALL LARGE FIRE SERVICES SHALL PASS A 200 PSI, TWO HOUR PRESSURE TEST, AND A BACTERIOLOGICAL TEST, FROM THE SERVICE VALVE TO THE RISER.
- 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.
- ALL WATER SERVICES/METER BOXES SHALL BE SET IN THE RIGHT-OF-WAY OR UTILITY EASEMENT, LOCATED AS APPROVED BY APWES.
- NO METER SHALL BE INSTALLED IN AN AREA PAVED FOR VEHICULAR TRAFFIC OR PARKING.
- 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).
- ALL SERVICE TAPS SHALL BE INSPECTED AND APPROVED BY APWES.

- 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.
- MINIMUM COVER SHALL BE FOUR FEET (4').
- MANHOLES SHALL HAVE A 400LBS TRAFFIC BEARING FRAME AND COVER WITH A DESIGN STRENGTH OF 4000 PSI AT TWENTY-EIGHT (28) DAYS.
- DROP MANHOLES SHALL BE REQUIRED WHEN THE INFLOW ELEVATION IS MORE THAN TWENTY-FOUR INCHES (24") ABOVE THE OUTFLOW ELEVATION.
- 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.
- 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.
- 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 KNOTSON MANHOLE INSERTS OR APPROVED OTHER.
- CONSTRUCT MANHOLES AT EACH END OF MAINS THAT ARE INSTALLED BY OTHER THAN OPEN CUT AND AT EACH END OF AERIAL CROSSING LINES.
- MANHOLES WILL BE REQUIRED ON SIX-INCH (6") AND LARGER LATERALS WHERE THEY CONNECT TO THE MAIN LINE.
- 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.
- 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.
- ALL MAINS INSTALLED IN FUTURE DEVELOPED AREAS SHALL INSTALL LATERALS; THE USE OF BOOTS WILL NOT BE PERMITTED.
- 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.
- 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.
- 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 ADDISON COUNTY, TEXAS		SIGN
	CONTROL POINT		RAILROAD SIGNAL
	PROPERTY CORNER MARKER FOUND - AS NOTED		UTILITY RISER/BOX
	PROPERTY CORNER SET		UTILITY MANHOLE
	POWER POLE		UTILITY PULL BOX
	GUY WIRE		UTILITY METER
	LIGHT POLE		UTILITY LINE MARKER
	ELECTRIC METER		MONITORING WELL
EMK	ELECTRIC LINE MARKER		OVERHEAD ELEC.
	ELECTRIC PULL BOX		U.G. ELECTRIC
	ELECTRIC MANHOLE		U.G. TELE. LINE
	ELECTRIC BOX (PANEL)		U.G. FIBER OPTIC
	YARD LIGHT		U.G. CABLE TV
	CATV MARKER		U.G. GAS
	CATV RISER		U.G. WATER
	CATV PULL BOX		U.G. SAN. SEWER
	CATV MANHOLE		U.G. STORM SEWER
IMK	TELEPHONE MARKER		CHAIN LINK FENCE
	TELEPHONE RISER		WOOD FENCE
	TELEPHONE MANHOLE		WIRE FENCE
	TELEPHONE PULL BOX		WROUGHT IRON FENCE
FMK	FIBER OPTIC MARKER		ASPHALT EDGE
	FIBER OPTIC PULL BOX		CONCRETE AREA
AC	AC COMPRESSOR UNIT		GRAVEL AREA
M	MAILBOX		CURB INLET
GMK	GAS MARKER		GRATE INLET
	GAS MANHOLE		DIESEL PUMP
	GAS METER		GASOLINE PUMP
	GAS VALVE		ONE WAY SIGN
	GAS TEST STATION		NO PARKING SIGN
	TREE (AS DESCRIBED)		NO TRUCKS SIGN
	BUSH (GENERAL)		SPEED LIMIT SIGN
	CM (CREPE MYRTLE)		STOP SIGN
	WATER MANHOLE		RETAINING WALL
	WATER METER		RIGHT TURN SIGN
	WATER VALVE		TURN ONLY SIGN
	WATER FAUCET		TOWING ENFORCED SIGN
	FIRE HYDRANT		SPOT ELEVATION
	SAN. SEWER MANHOLE		EDGE OF CONCRETE ELEVATION
	SAN. SEWER CLEANOUT		GUTTER ELEVATION
	STORM DRAIN MANHOLE		TOP OF CURB ELEVATION
	INLET RIM		TOP OF WALL ELEVATION
	TRAFFIC SIGNAL LIGHT		SUBJECT PROPERTY LINE
	TRAFFIC SIGNAL BOX		EXISTING EASEMENT LINE
			BUILDING SETBACK LINE
			FIRELINE PAINT MARKS INVERT REFERENCE
			PHOTO LOCATION REFERENCE
			CANOPY - COVERED AREA

**SPECIAL NOTE**

- 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.
- 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.
- 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**.
- 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.
- 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.
- 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.
- 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.
- 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.

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.

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SPECTRUM/CHARTER COMMUNICATIONS	1-888-438-2427
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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**

**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 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 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 THE TOWN. ONCE CONSTRUCTION BEGINS, ANY CHANGES REQUESTED BY THE CONTRACTOR TO THIS SCHEDULE SHALL REQUIRE WRITTEN APPROVAL FROM THE 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 THE TOWN.
16. REMOVE TEMPORARY WORK ZONE SIGNS AND CHANNELIZING DEVICES WHEN PROJECT IS ACCEPTED BY THE 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 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 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. I.E. 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 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 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 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.

SURVEY CONTROL  
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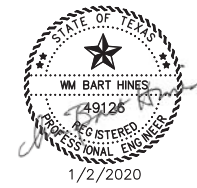
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**ADDISON, TEXAS  
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**SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
 PROJECT NO. 513301**

**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

G:\1220\5133-01 Addison Basin\_1 Final Design\CAD\Sheets\... \REF\Border\abor.dwg  
 PLOTTED: Jan 02, 2020 - 1:52pm  
 Crystal Reed

Town of Addison																			
Wastewater Basin I 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																	

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 ATMOS ENERGY 1-888-286-6700

REV. NO.	DESCRIPTION	CHK. BY	DATE



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

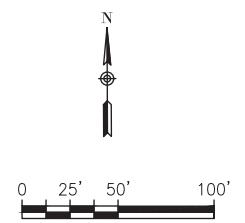
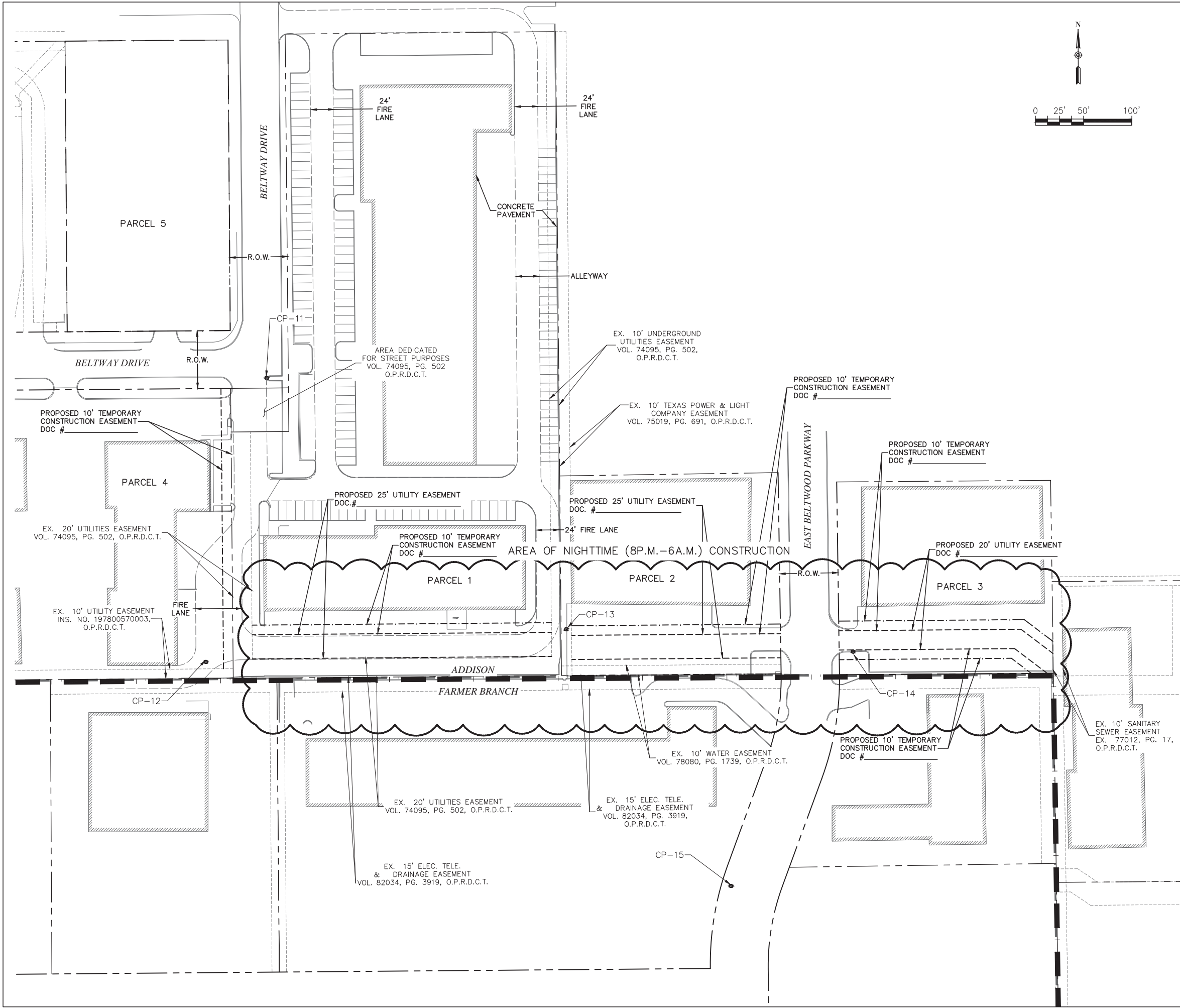
SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
 PROJECT NO. 513301

**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

G:\1220\5133-01 Addison Basin\_1 Final Design\CAD\Sheets\...  
 PLOTTED: Jan 02, 2020 -- 1:53pm  
 Crystal Reed



**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

**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



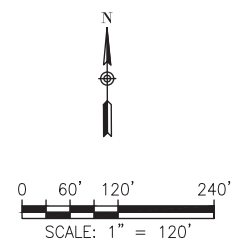
**ADDISON, TEXAS  
 PUBLIC WORKS &  
 ENGINEERING SERVICES**

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

**PROPOSED 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



**LEGEND**

	R.O.W LINE/PROPERTY LINE
	SHEET LAYOUT
	TOWN LIMITS
	PROPERTY IDENTIFICATION NUMBER

**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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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**

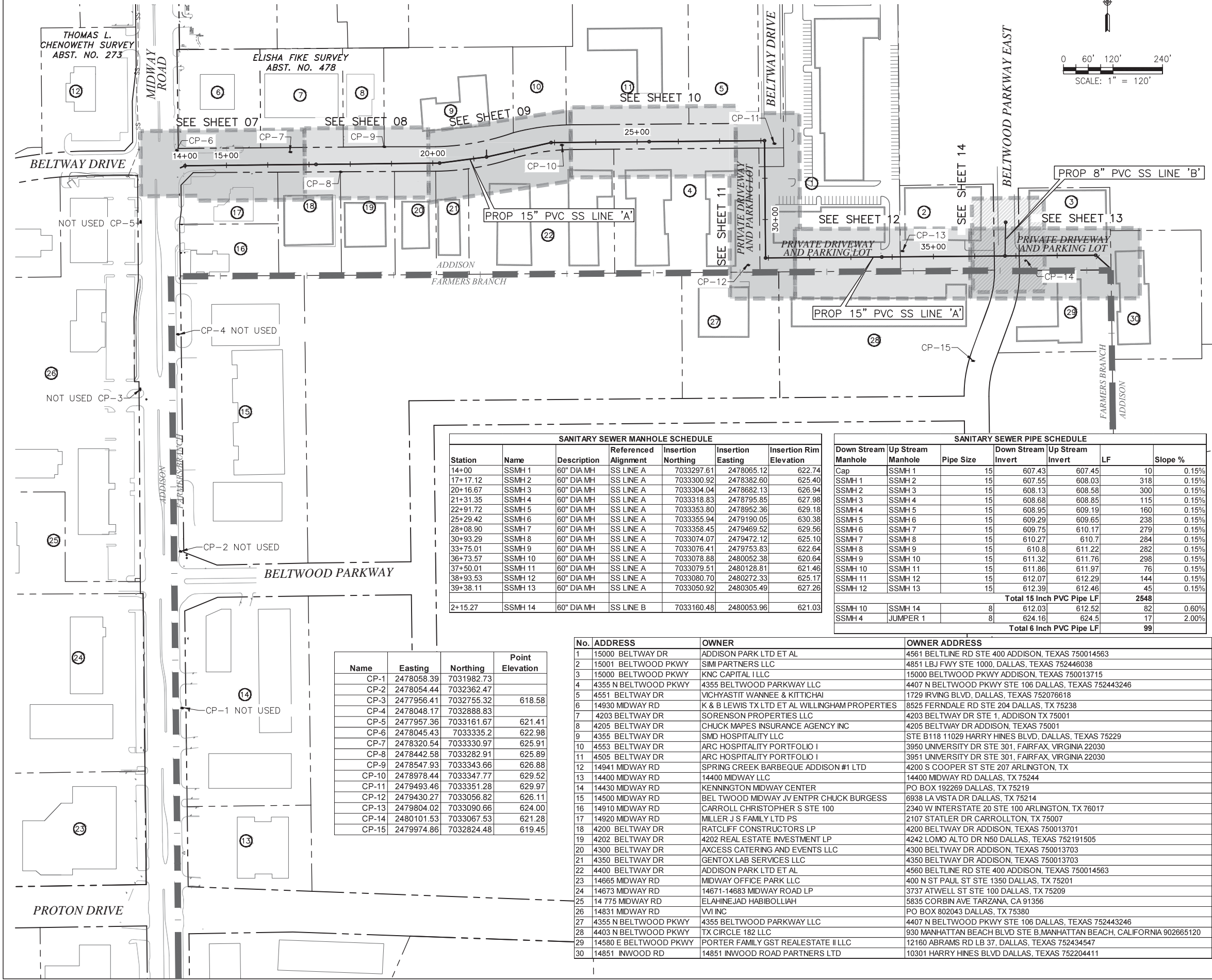
**DANNENBAUM**  
 ENGINEERING COMPANY - DALLAS, LLC  
 T.B.P.E. FIRM REGISTRATION #8996  
 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

DESIGNED BY: W8H      DATE: 1/2/2020

DRAWN BY: CMR      PROJECT NO: 513301

CHECKED BY: DEG      DRAWING SCALE: 1"=120'

FILE: SSWR\_LAYOUT.dwg      SHEET NO: 06



**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	2478382.60	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	612.52	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>

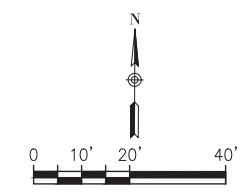
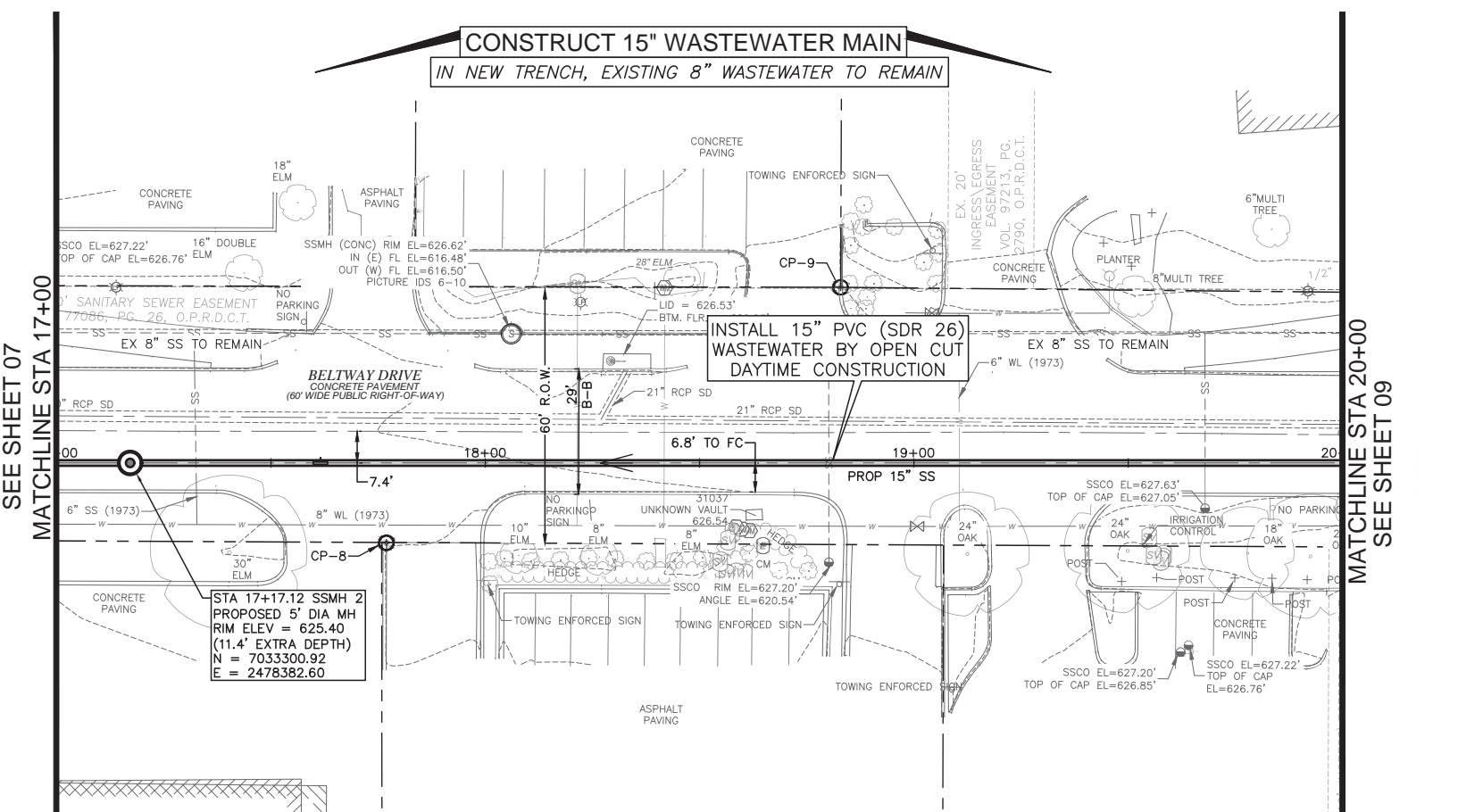
Name	Easting	Northing	Point Elevation
CP-1	2478058.39	7031982.73	
CP-2	2478054.44	7032362.47	
CP-3	2477956.41	7032755.32	618.58
CP-4	2478048.17	7032888.83	
CP-5	2477957.36	7033161.67	621.41
CP-6	2478045.43	7033335.2	622.98
CP-7	2478320.54	7033330.97	625.91
CP-8	2478442.58	7033282.91	625.89
CP-9	2478547.93	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	SIM 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	SOERENSON 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

G:\1220\5133-01 Addison Basin\_1 Final Design\CAD\_Sheets  
 PLOTED: Jan 02, 2020 - 2:37pm  
 Crystal Reed



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 XREF DEC\5133-01\_Exist\_Base.dwg  
 XREF DEC\5133-01\_Pipe\_Network.dwg  
 PLOTTED: Jan 02, 2020 - 1:54pm  
 CrystalRead



**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.

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

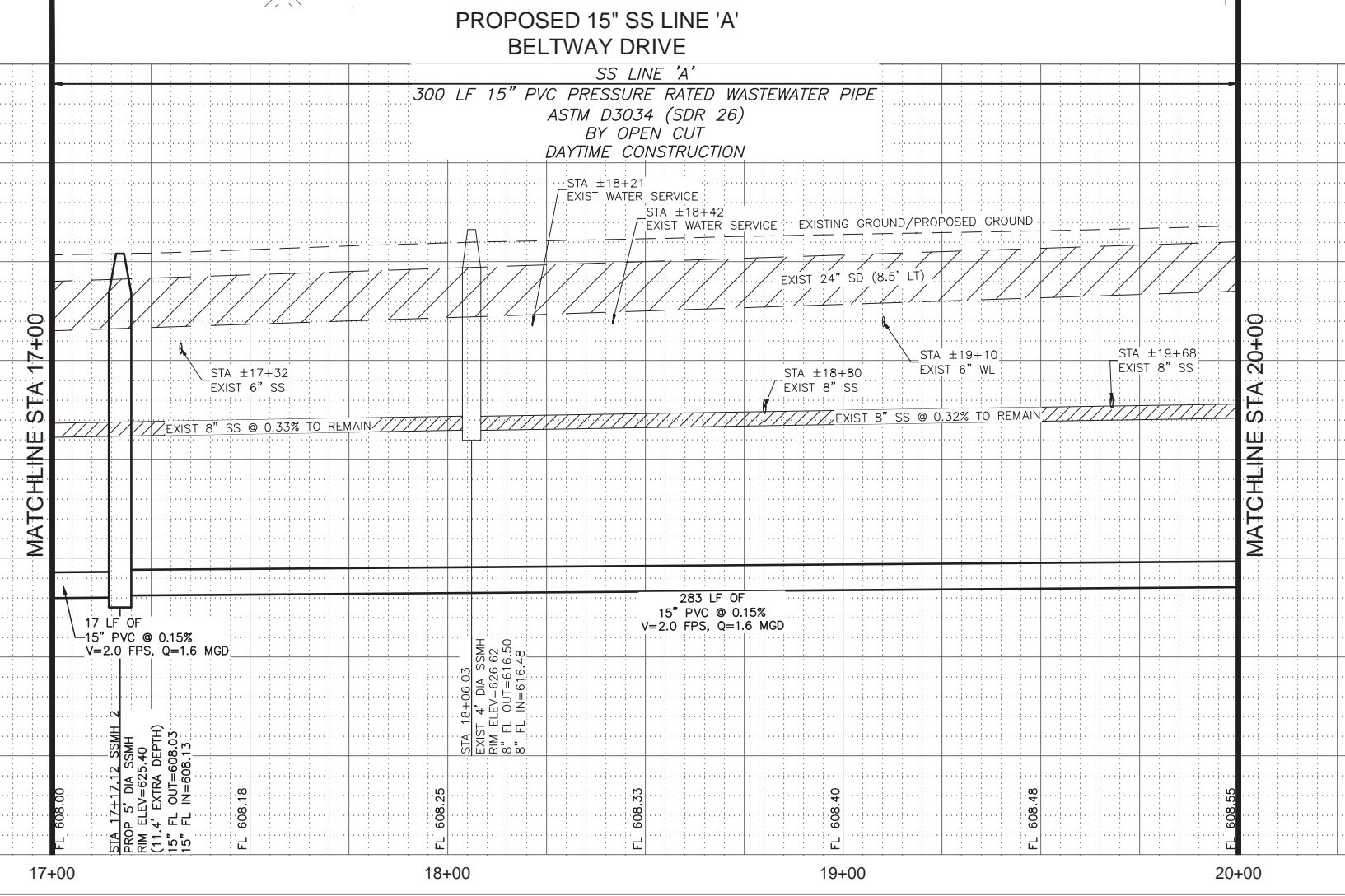
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PUBLIC WORKS & ENGINEERING SERVICES 972-450-2871  
 TEXAS ONE CALL/DIG TESS 1-811-344-8377  
 ONCOR 1-888-313-6862  
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 ATMOS ENERGY 1-888-286-6700



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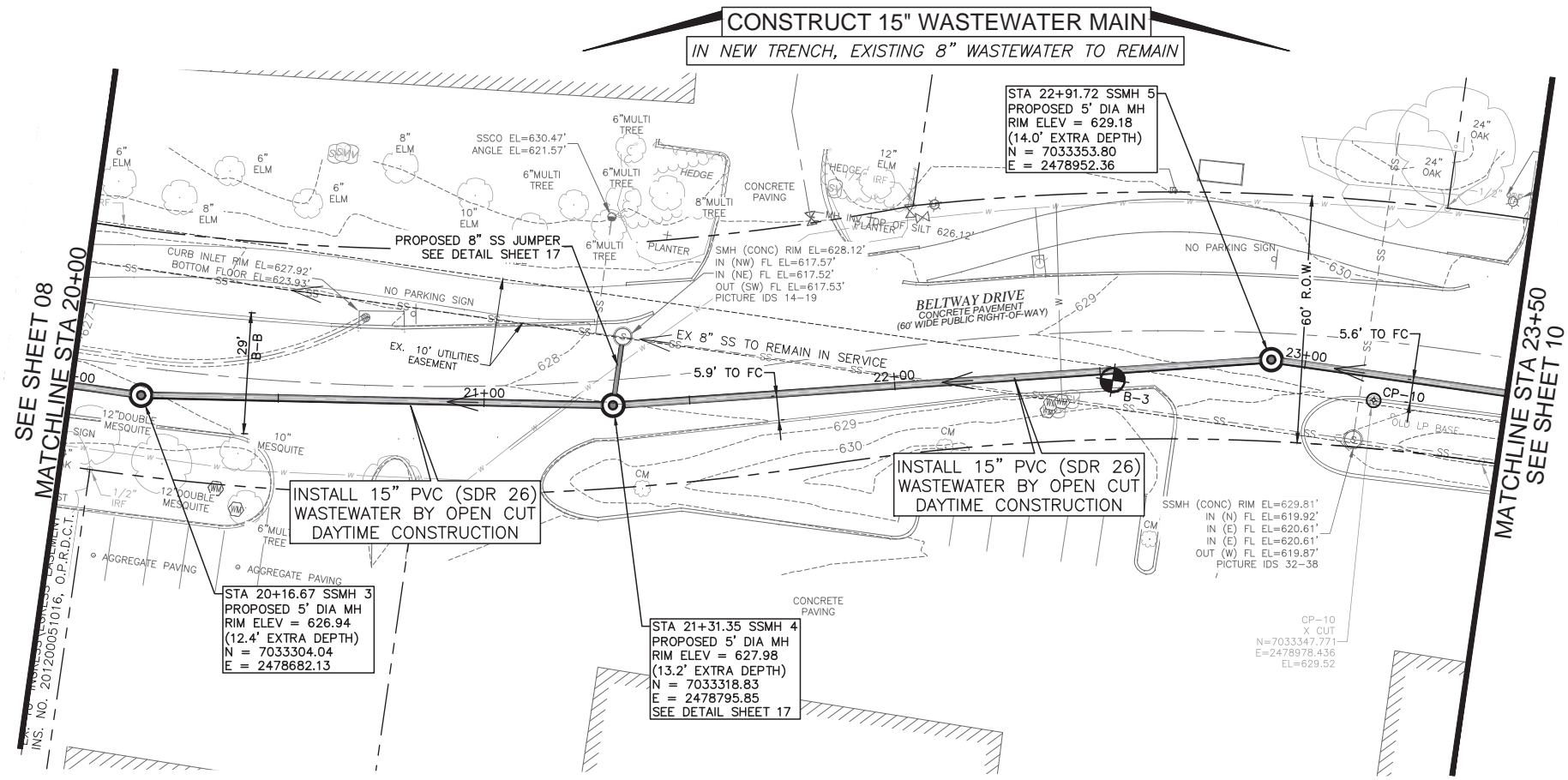
ADDISON, TEXAS  
 PUBLIC WORKS &  
 ENGINEERING SERVICES

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

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: 1/2/2020
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



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

**CONTROL**  
 CP-10  
 X CUT  
 N=7033347.771  
 E=2478978.436  
 EL=629.52

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

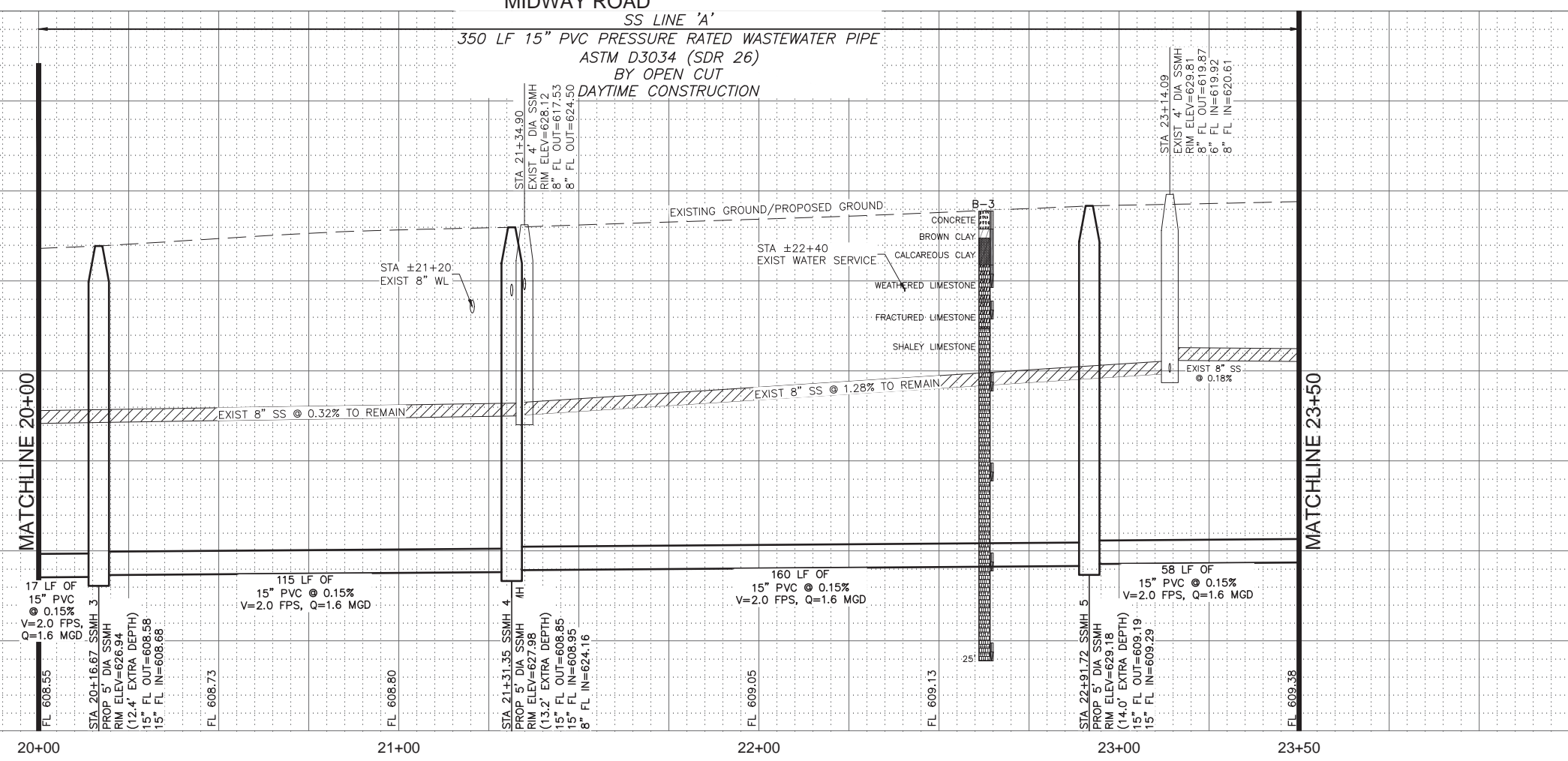
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REV. NO.	DESCRIPTION	CHK. BY	DATE



ADDISON, TEXAS  
 PUBLIC WORKS &  
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SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
 PROJECT NO. 513301

PROPOSED 15" SS  
 LINE 'A' PLAN & PROFILE  
 STA 20+00-23+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: 1/2/2020
DRAWN BY: CMR	PROJECT NO: 513301
CHECKED BY: DEG	DRAWING SCALE: 1"=20'H; 1"=5'V

FILE: SSWR\_PnP\_2.dwg SHEET NO: 09

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 XREF: CIV\5133-01-pipe\_network.dwg  
 PLOTTED: Jan 02, 2020 - 1:54pm  
 Crystal: Read

SEE SHEET 09  
MATCHLINE STA 23+50

MATCHLINE STA 27+50  
SEE SHEET 11

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

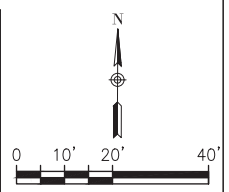
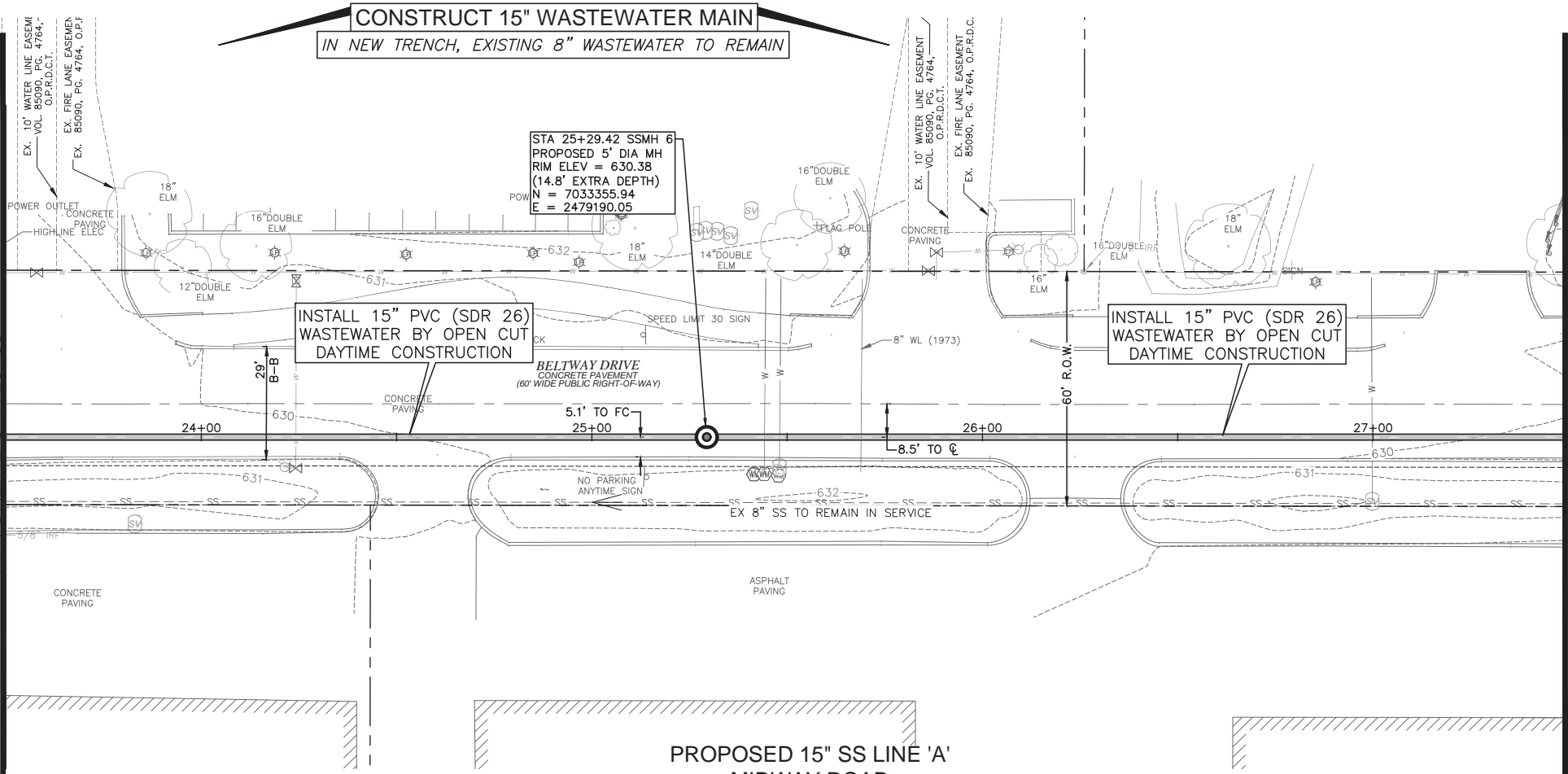
STA 25+29.42 SSMH 6  
PROPOSED 5' DIA MH  
RIM ELEV = 630.38  
(14.8' EXTRA DEPTH)  
N = 7033355.94  
E = 2479190.05

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



**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.

**SURVEY CONTROL**  
CITY OF ADDISON MONUMENT NO. 11 (611.74') HELD FOR VERTICAL  
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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 15" SS  
LINE 'A' PLAN & PROFILE  
STA 23+50-27+50

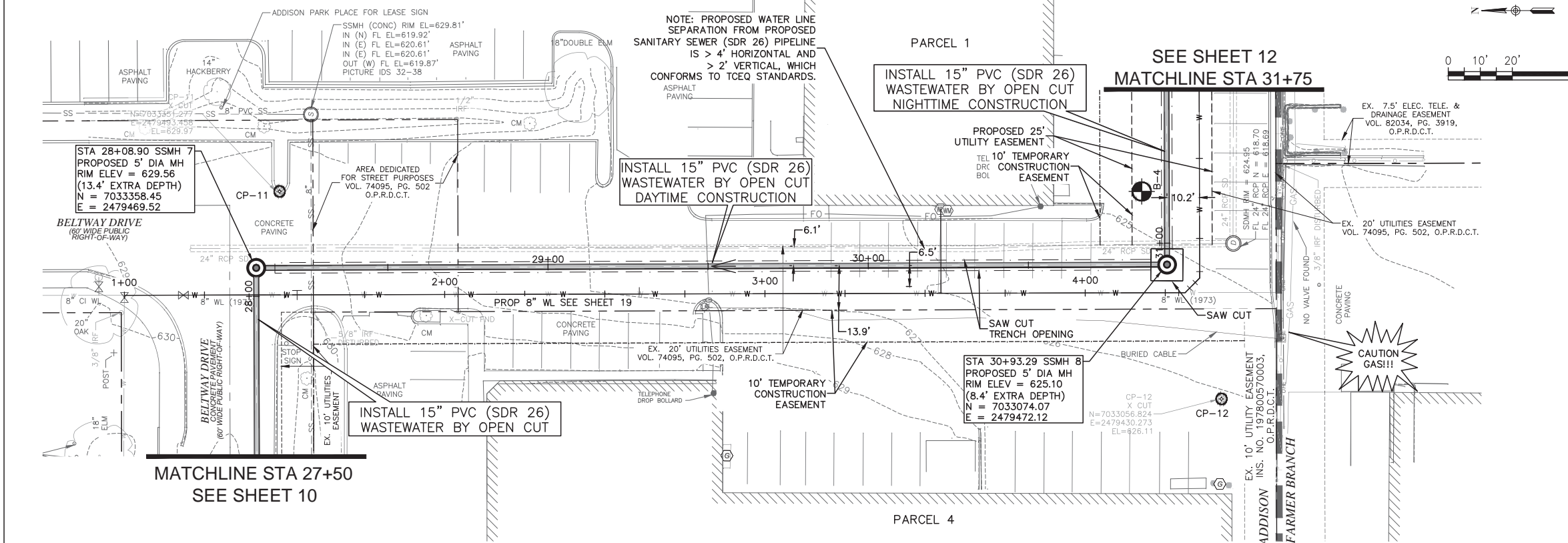
**DANNENBAUM**  
ENGINEERING COMPANY - DALLAS, LLC  
T.B.P.E. FIRM REGISTRATION #8996  
3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

DESIGNED BY: WBH	DATE: 1/2/2020
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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XREF DEC\5133-01\_Exist\_Base.dwg  
PLOTTED: Jan 02, 2020 - 1:54pm  
Crystal Reed  
Civil 3d\5133-01-pipe network.dwg

**CONSTRUCT 15" WASTEWATER MAIN  
IN NEW TRENCH**



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 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.

ATTENTION :  
FOR INSTALLATION OF SS LINE 'A' FROM STA 30+99 TO 39+45, THE CONTRACTOR SHALL BE RESTRICTED TO WORK HOURS BETWEEN 8:00 P.M. TO 6:00 A.M. THE CONTRACTOR SHALL BACKFILL OR PLACE STEEL PLATES OVER WORKING AREA TO ALLOW FOR VEHICLE TRAFFIC AND DELIVERY TRUCKS TO ACCESS LOADING DOCKS AND SERVICE AREAS.

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

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

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 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

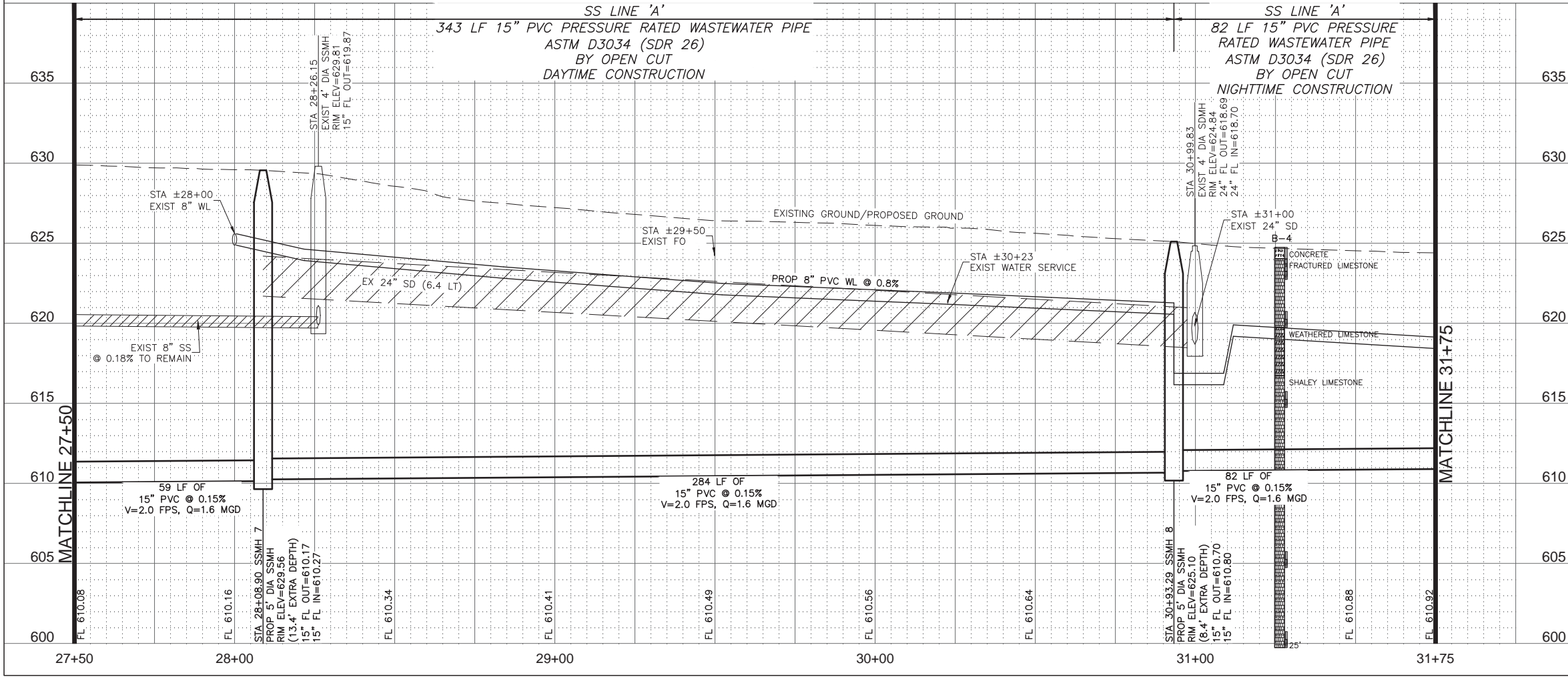
DESIGNED BY: WBH	DATE: 1/2/2020
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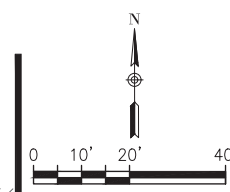
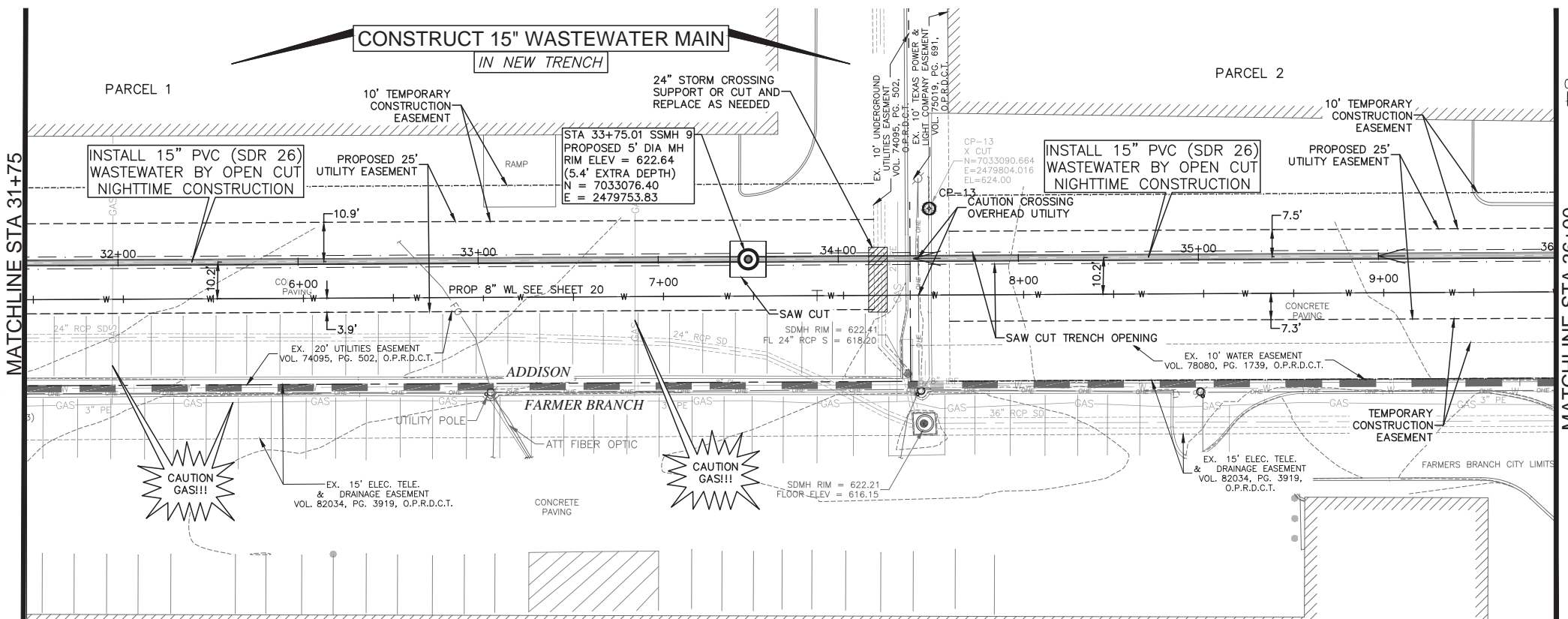
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CHECKED BY: DEG	DRAWING SCALE: 1"=20'H; 1"=5'V
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PLOT: Jan 02, 2020 - 2:53pm  
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CrystalRead





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.

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-13  
X CUT  
N=7033090.664  
E=2479804.016  
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.

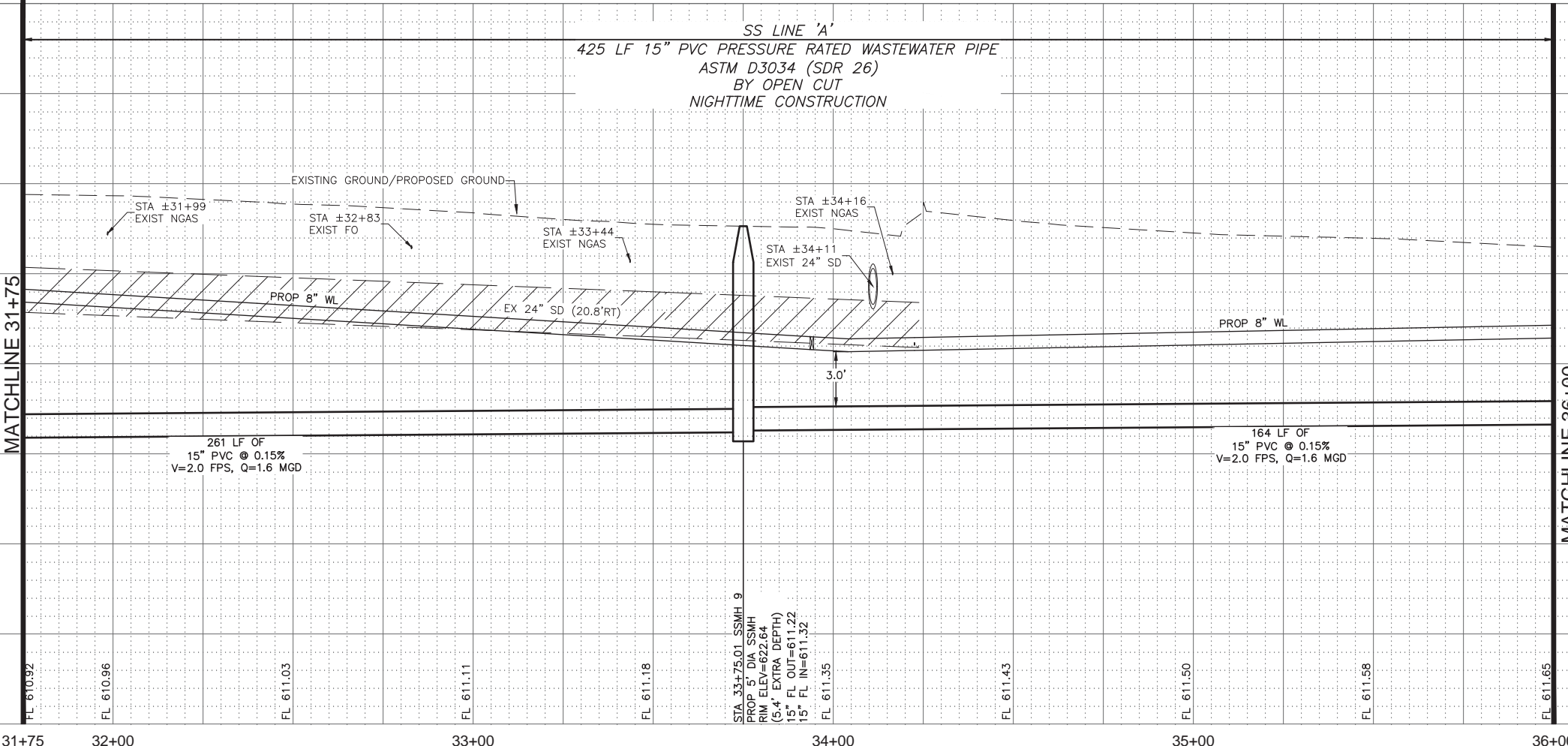
FLOODPLAIN NOTE: THE ENTIRE PROJECT IS LOCATED WITHIN ZONE 'X' (AREA OF MINIMAL FLOODING) PER FEMA FIRM MAP 48113C0180K, EFFECTIVE 07/07/2014.

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

PROPOSED 15" SS LINE 'A' PRIVATE DRIVE



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 31+75-36+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: 1/2/2020

DRAWN BY: CMR PROJECT NO: 513301

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

FILE: SSWR\_PnP\_2.dwg SHEET NO: 12

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PLOTTED: Jan 02, 2020 - 1:55pm  
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 FARMER'S BRANCH CITY LIMITS.

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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

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 36+00-END

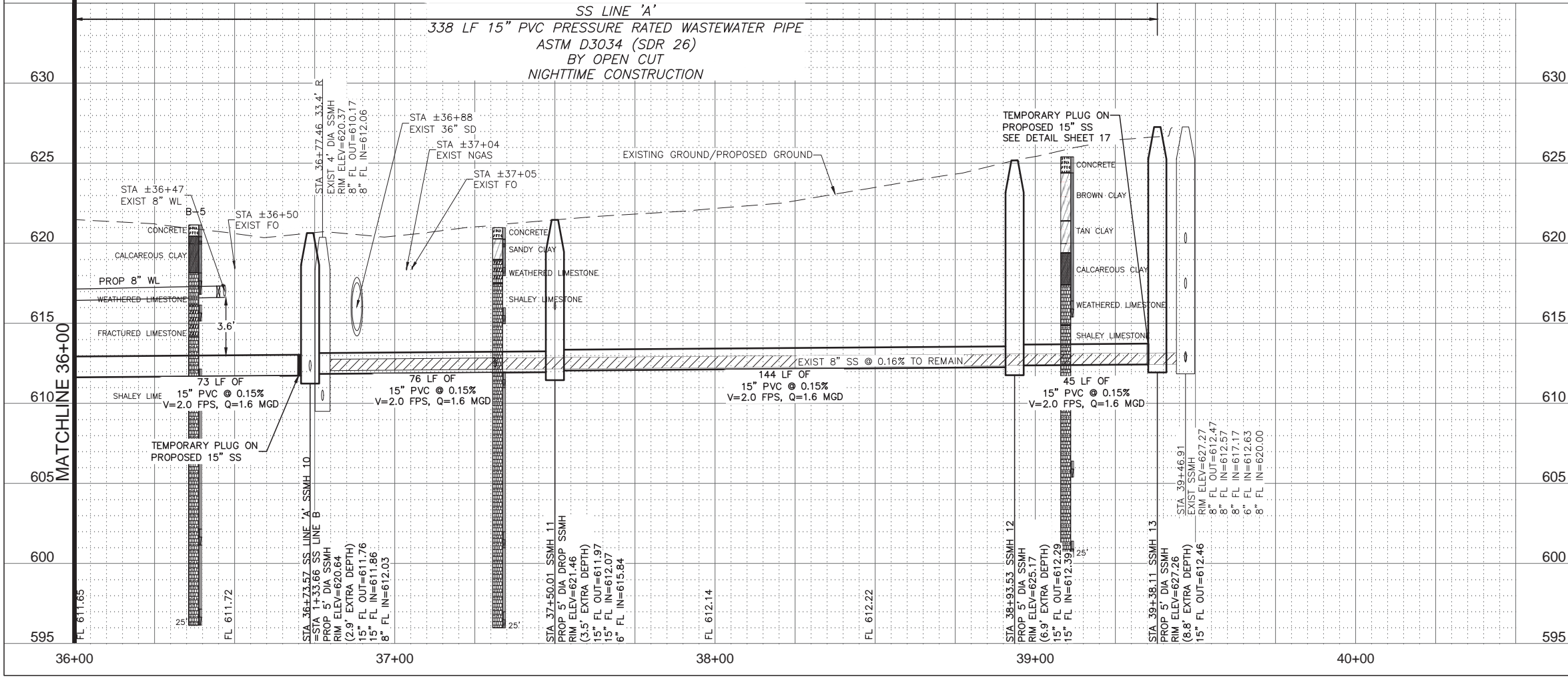
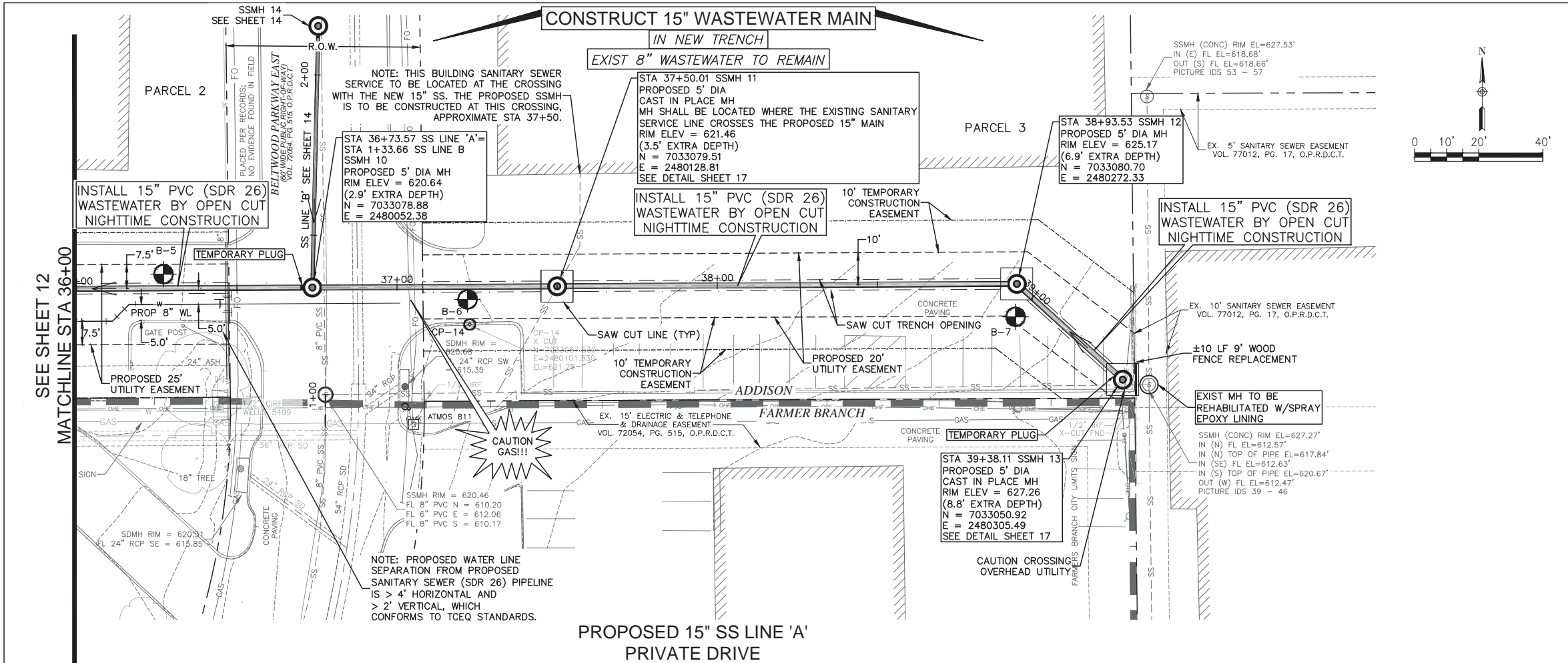
**DANNENBAUM**  
ENGINEERING COMPANY - DALLAS, LLC  
T.B.P.E. FIRM REGISTRATION #8996  
3030 LBW JFW #910, DALLAS, TX 75234 (972) 239-2002

DESIGNED BY: WBH DATE: 1/2/2020

DRAWN BY: CMR PROJECT NO: 513301

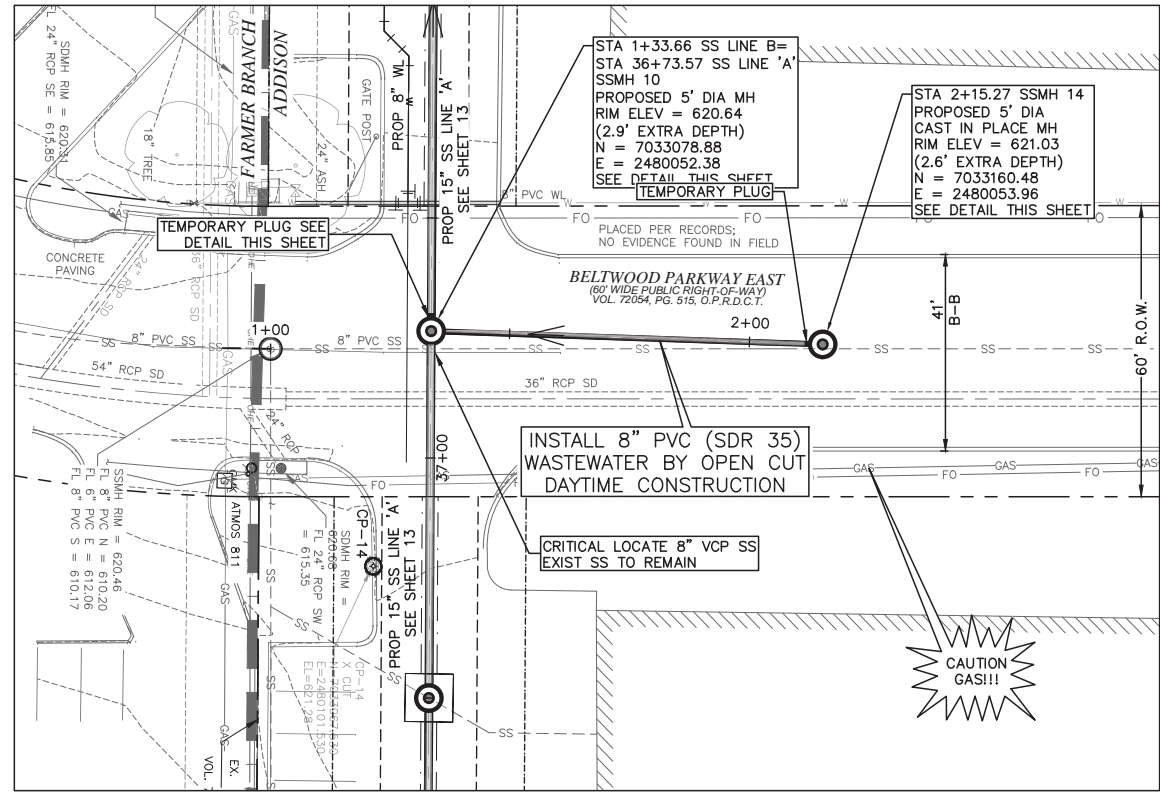
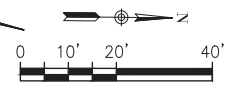
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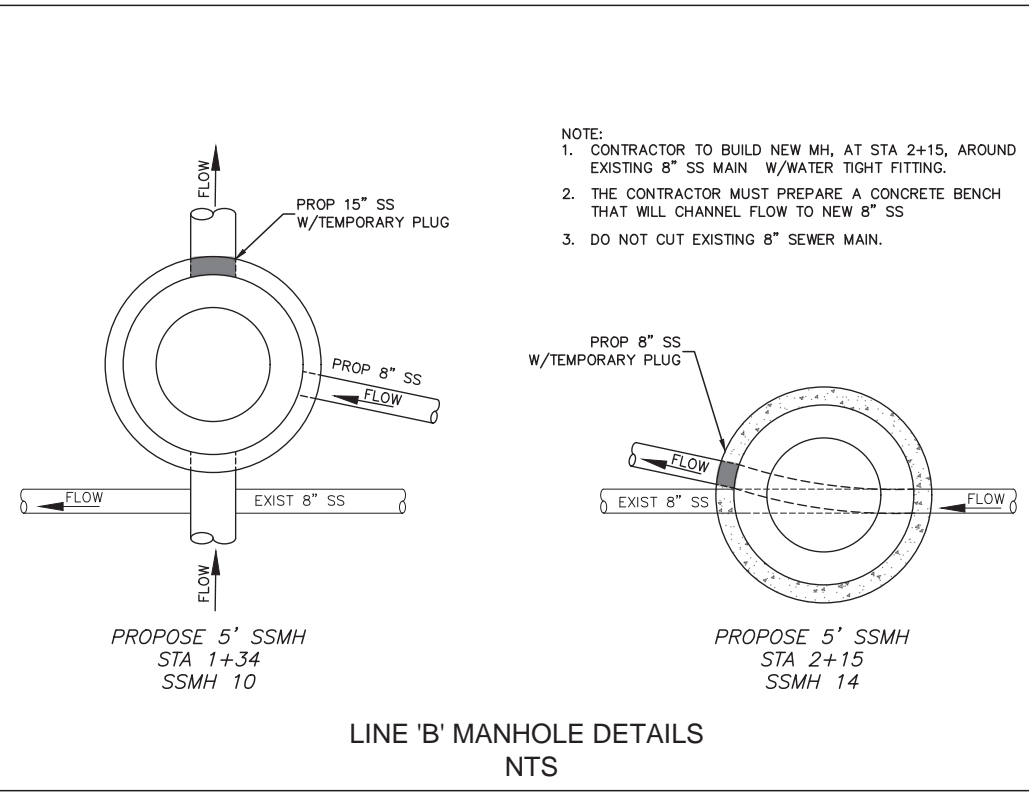


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PLOTTED: Jan 02, 2020 - 1:55pm  
Crystal Reed

**CONSTRUCT 8" WASTEWATER MAIN**  
**IN PARALLEL TRENCH TO EXISTING 8" WASTEWATER**  
**EXISTING 8" WASTEWATER TO REMAIN**



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



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

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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.

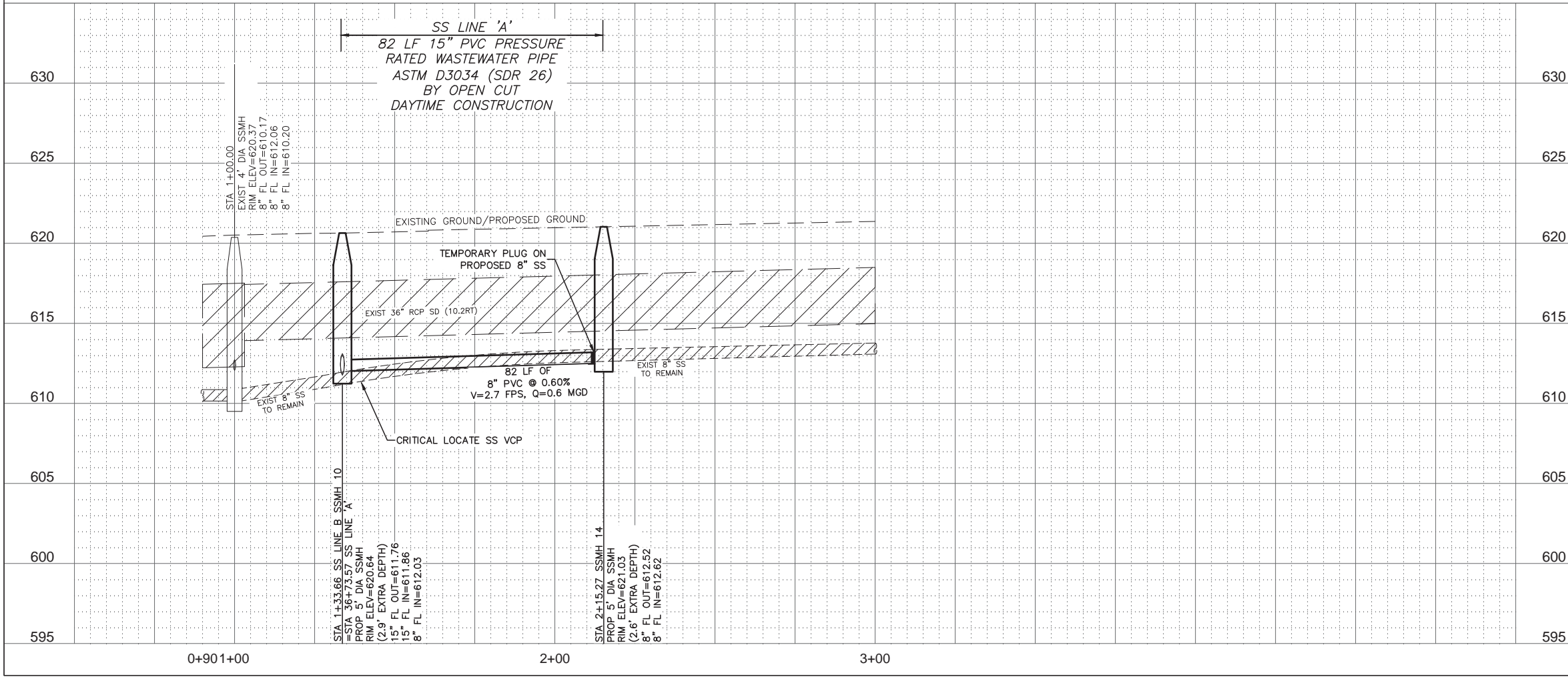
FLOODPLAIN NOTE: THE ENTIRE PROJECT IS LOCATED WITHIN ZONE 'X' (AREA OF MINIMAL FLOODING) PER FEMA FIRM MAP 48113C0180K, EFFECTIVE 07/07/2014.

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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

G:\1220\5133-01 Addison Basin 1 Final Design\CAD\Sheets  
 PLOTTED: Jan 02, 2020 - 1:55pm  
 Crystal Reed



REV. NO.	DESCRIPTION	CHK. BY	DATE



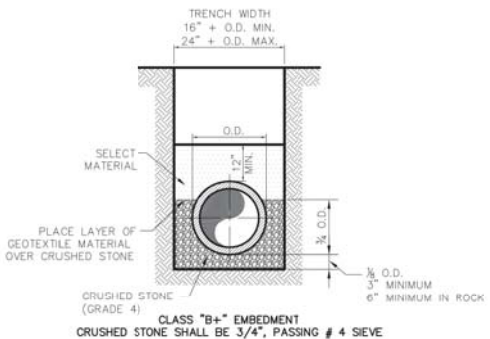
**ADDISON, TEXAS**  
**PUBLIC WORKS &**  
**ENGINEERING SERVICES**

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

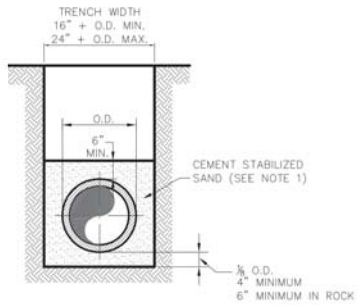
PROPOSED 8" SS  
 LINE 'B' PLAN & PROFILE

**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: 1/2/2020
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



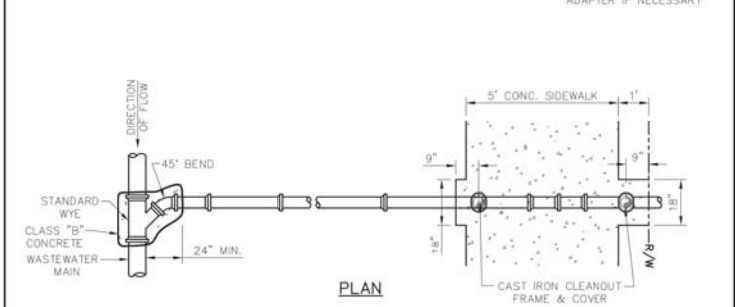
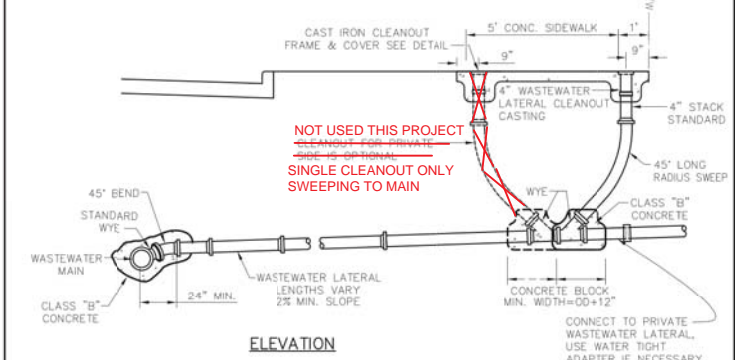
TYPICAL P.V.C. WASTEWATER MAIN EMBEDMENT



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

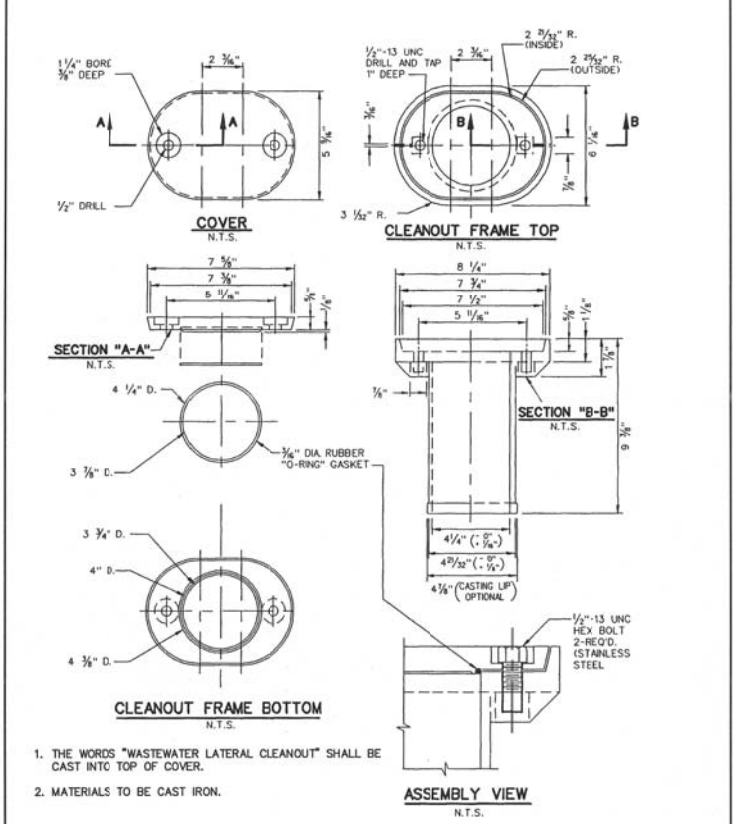
NOTE:  
1. CEMENT STABILIZED SAND SHALL HAVE A MINIMUM OF 10% CEMENT PER CUBIC YARD OF CEMENT STABILIZED SAND MIXTURE, BASED ON LOOSE DRY WEIGHT VOLUME (AT LEAST 2.5 BAGS OF CEMENT PER CUBIC YARD OF MIXTURE). THE USE OF BROWN COLORING IN CEMENT STABILIZED SAND IS REQUIRED FOR PRESSURE RATED WASTEWATER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

Addison! 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.

Addison! PUBLIC WORKS DEPARTMENT	TWO-WAY CLEANOUT NEW CONSTRUCTION	STANDARD CONSTRUCTION DETAILS WASTEWATER		
		DATE: AUGUST, 2010	REV DATE: -	SHEET: SD-WW02



Addison! PUBLIC WORKS DEPARTMENT	CAST IRON CLEANOUT FRAME & COVER	STANDARD CONSTRUCTION DETAILS WASTEWATER		
		DATE: AUGUST, 2010	REV DATE: -	SHEET: SD-WW03

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

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

SANITARY SEWER DETAILS  
(1 OF 3)

**DANNENBAUM**

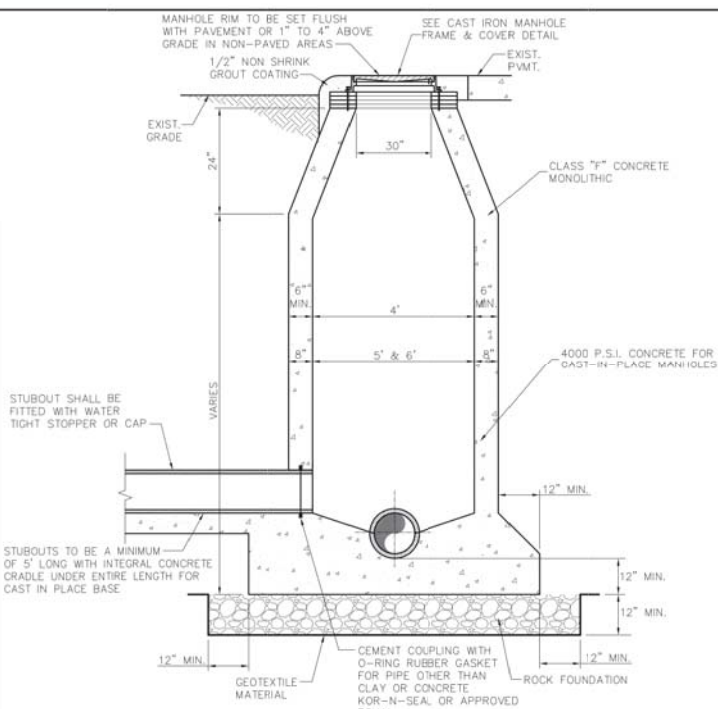
ENGINEERING COMPANY - DALLAS, LLC  
T.B.P.E. FIRM REGISTRATION #8996  
3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

DESIGNED BY: WBH DATE: 1/2/2020

DRAWN BY: CMR PROJECT NO: 513301

CHECKED BY: DEG DRAWING SCALE: NTS

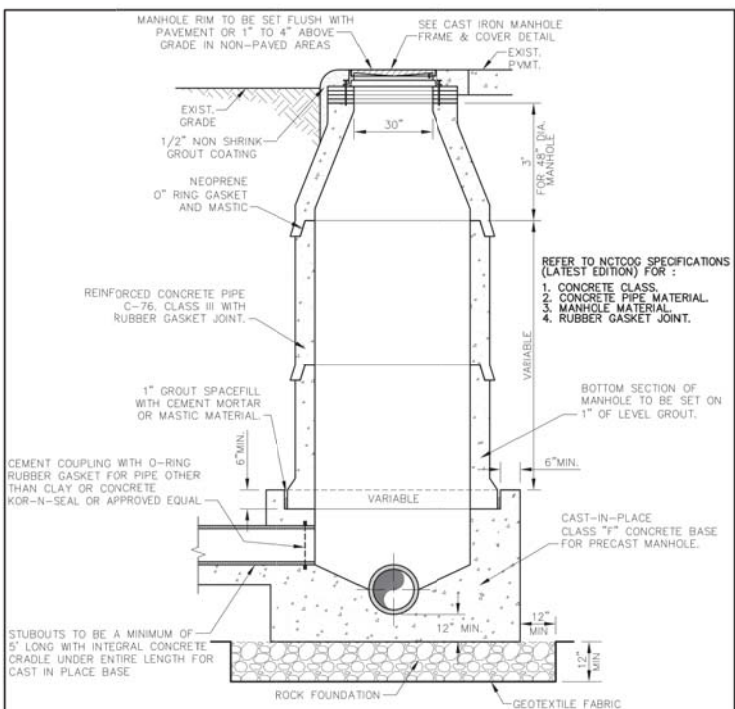
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NOTES:  
1. IF FALSE MANHOLE BOTTOMS ARE REQUIRED, THEY SHALL BE CONSTRUCTED, INSTALLED, AND REMOVED PER WASTEWATER MANHOLE FALSE BOTTOM STD. DETAIL.  
2. WHERE MANHOLE'S ARE OUTSIDE OF PAVEMENT, FRAME & COVER SHALL BE CENTERED IN 5'x5' CONCRETE PAD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

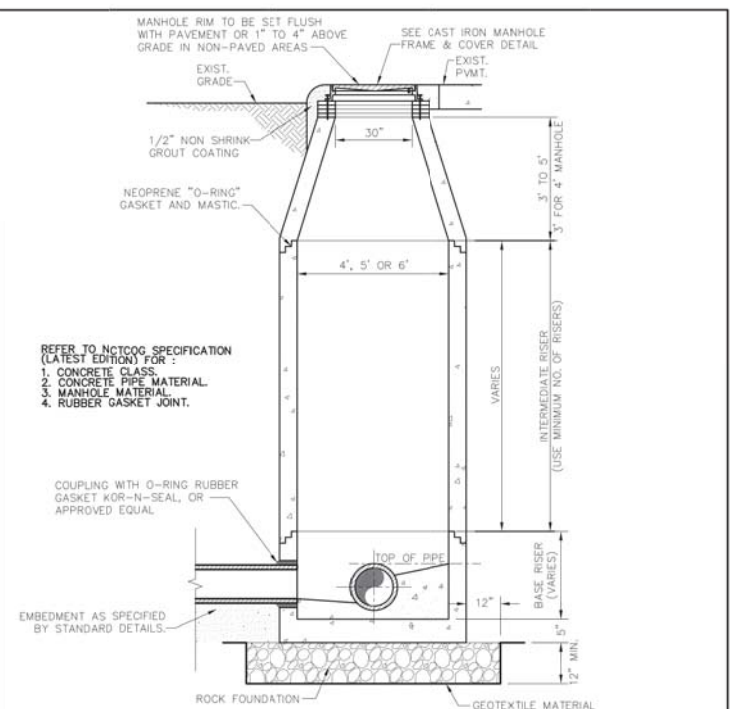
CASI-IN-PLACE NOTES:  
1. KEYWAYS REQUIRED FOR ALL CONSTRUCTION JOINTS.  
2. P.V.C. WATER STOP REQUIRED FOR ALL JOINTS IN LOWER 4'-0" OF MANHOLES  
3. CONCRETE SHALL BE 4000 P.S.I.

Addison! 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.  
2. WHERE MANHOLE'S 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

Addison! PUBLIC WORKS DEPARTMENT	PRECAST CONCRETE PIPE MANHOLE ALTERNATE "A"	STANDARD CONSTRUCTION DETAILS WASTEWATER		
		DATE: AUGUST, 2010	REV DATE: -	SHEET: SD-WW05



NOTES:  
1. IF FALSE MANHOLE BOTTOMS ARE REQUIRED, THEY SHALL BE CONSTRUCTED, INSTALLED, AND REMOVED PER WASTEWATER MANHOLE FALSE BOTTOM STD. DETAIL.  
2. WHERE MANHOLE'S 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

Addison! PUBLIC WORKS DEPARTMENT	PRECAST CONCRETE PIPE MANHOLE ALTERNATE "B"	STANDARD CONSTRUCTION DETAILS WASTEWATER		
		DATE: AUGUST, 2010	REV DATE: -	SHEET: SD-WW07

**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

**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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 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**

**SANITARY SEWER DETAILS  
 (2 OF 3)**

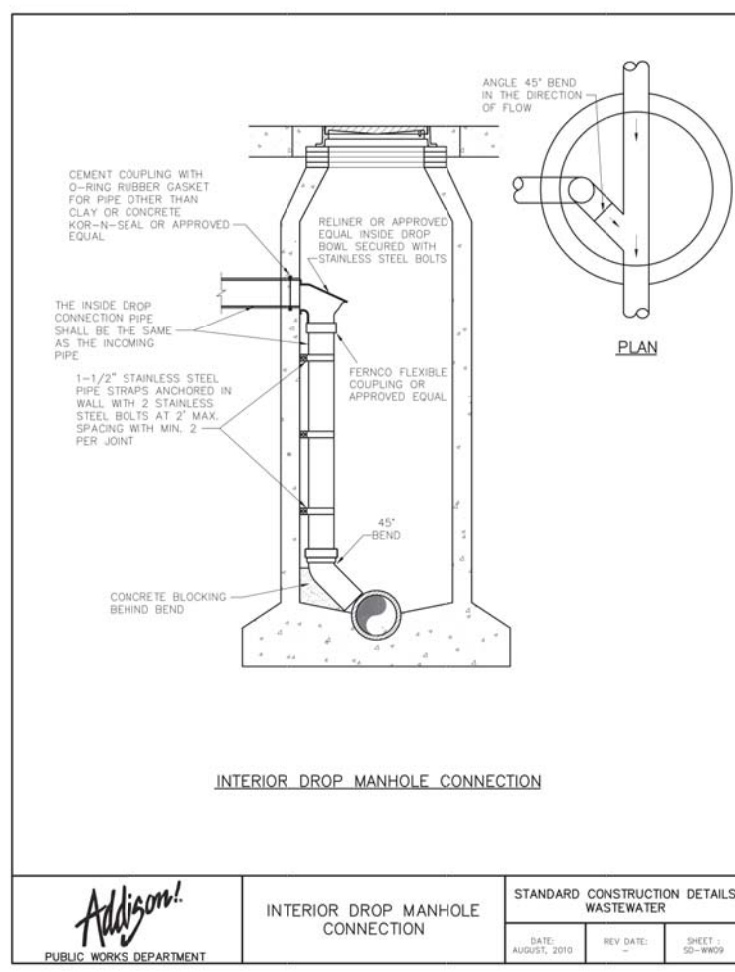
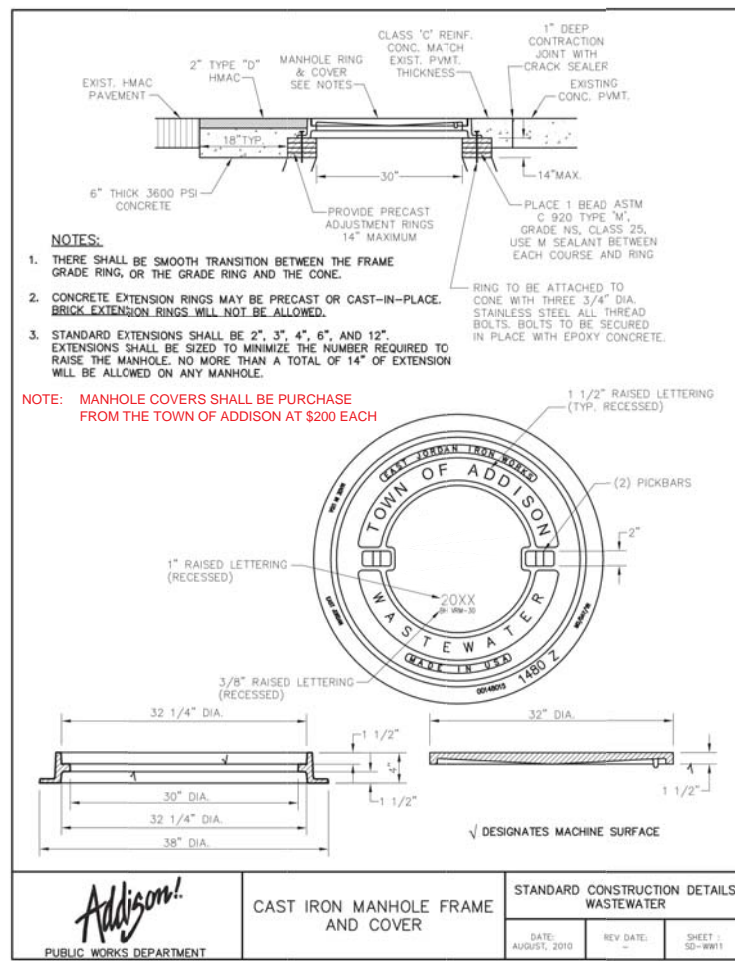
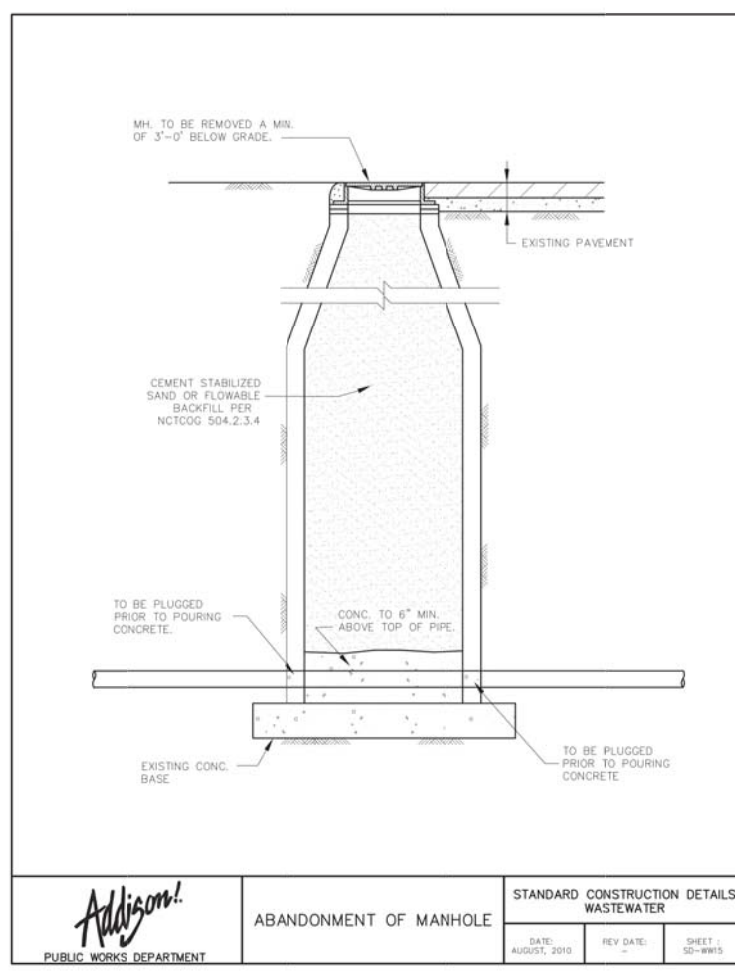
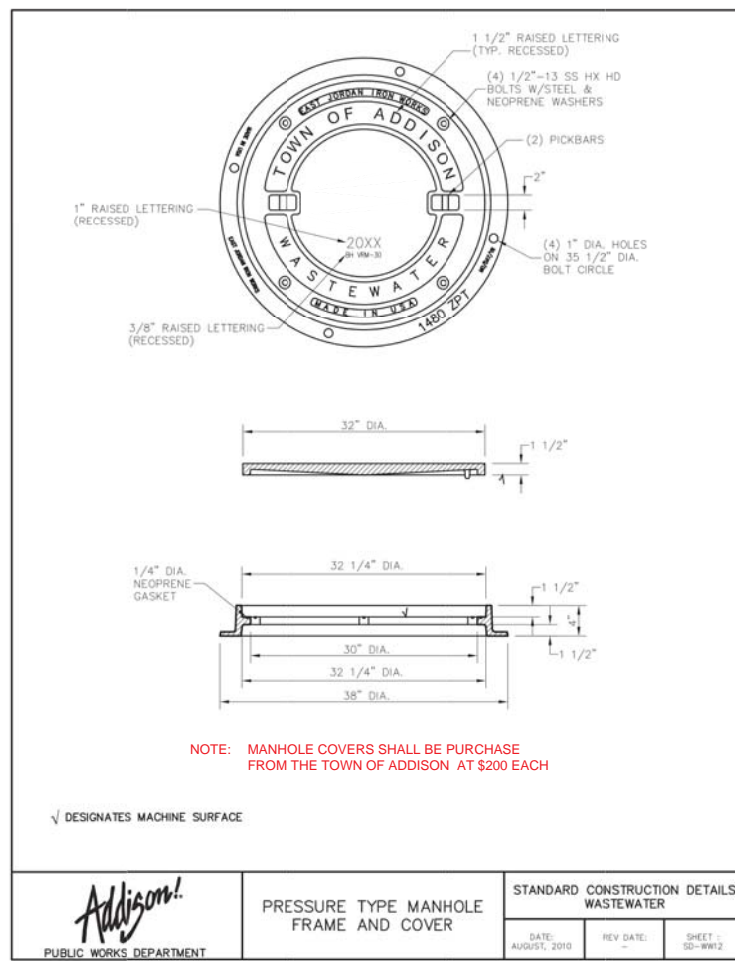
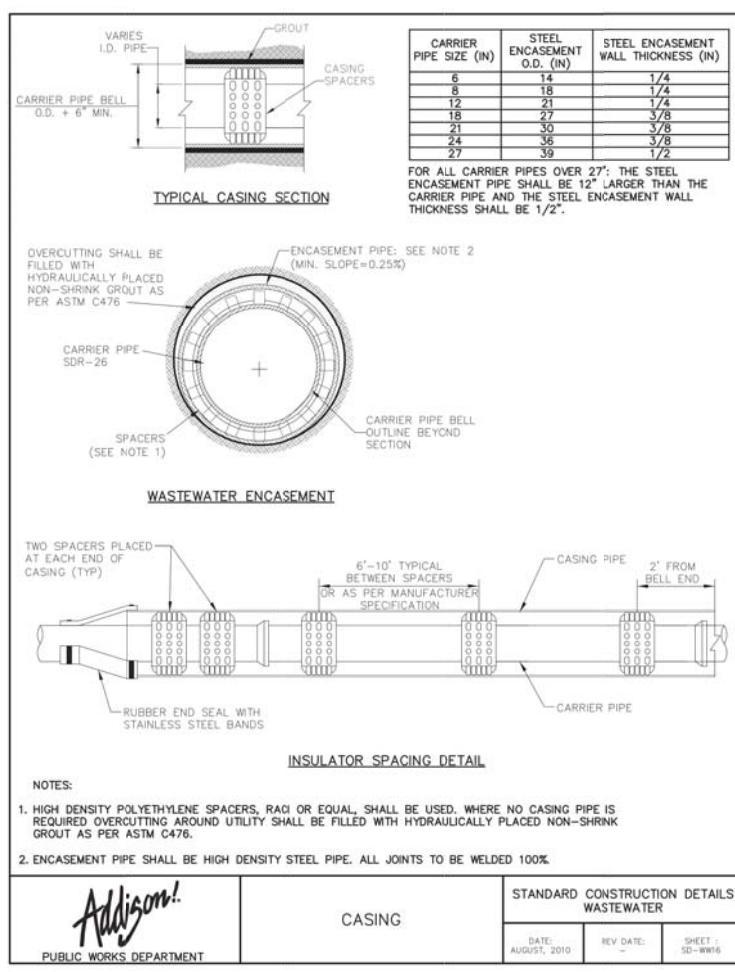
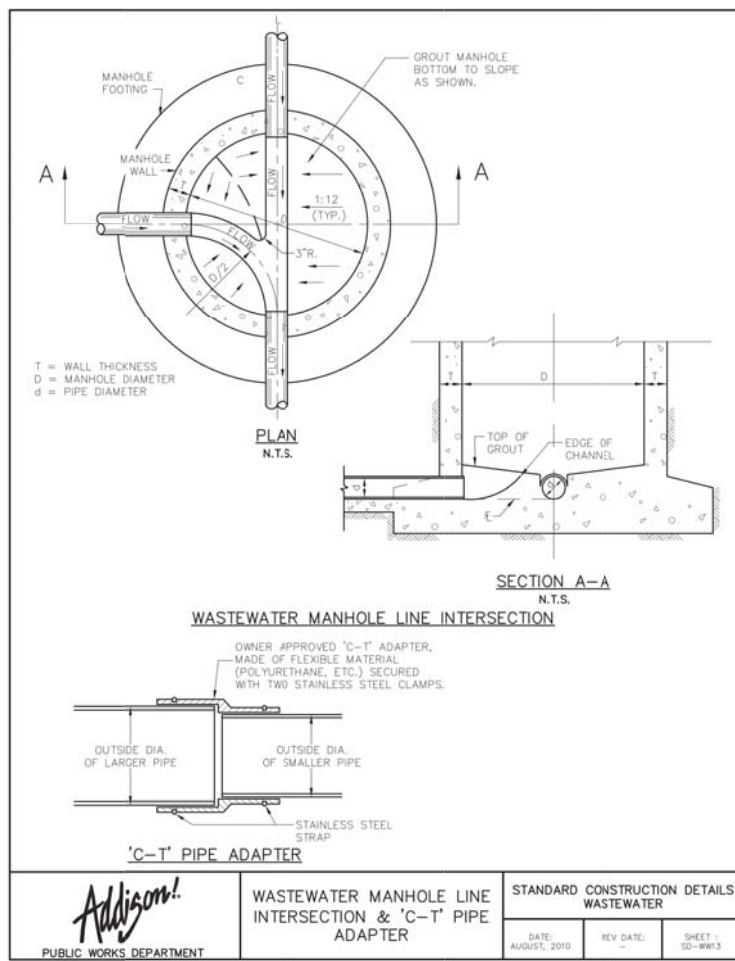
**DANNENBAUM**  
 ENGINEERING COMPANY - DALLAS, LLC  
 T.B.P.E. FIRM REGISTRATION #8996  
 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

DESIGNED BY: WBH DATE: 1/2/2020

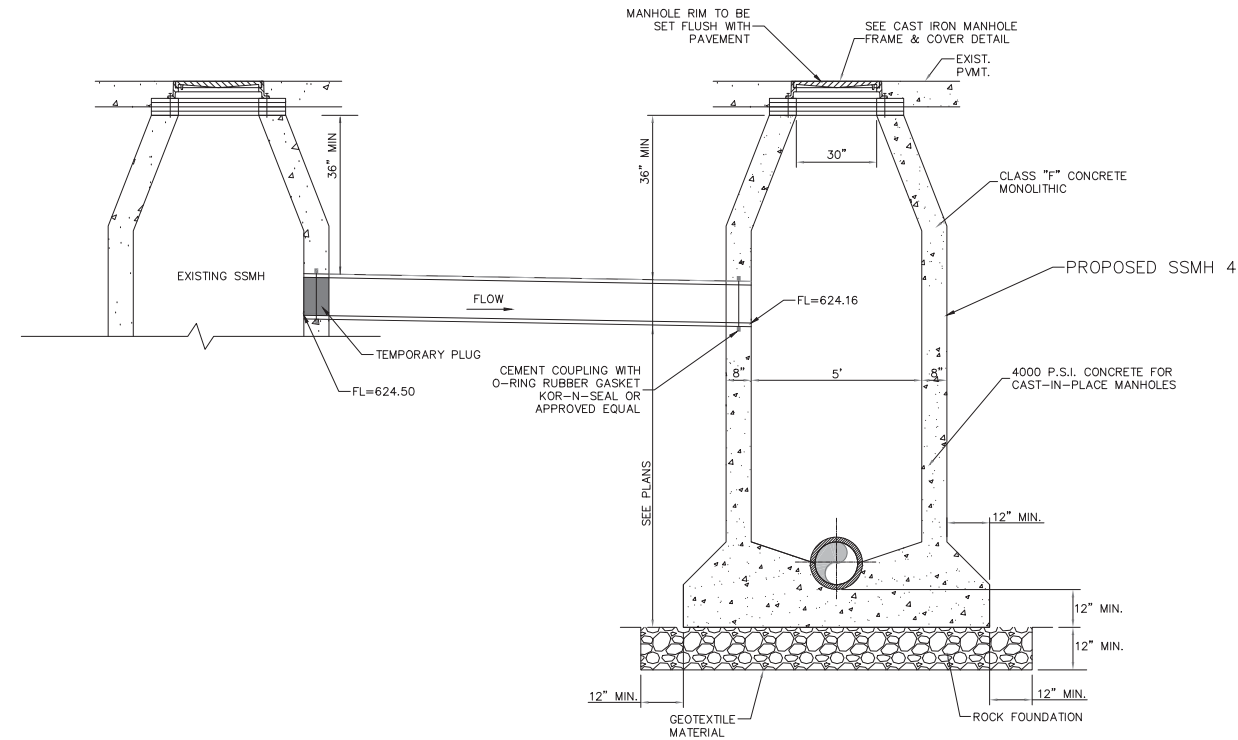
DRAWN BY: CMR PROJECT NO: 513301

CHECKED BY: DEG DRAWING SCALE: NTS

FILE: DETAILS\_SS.dwg SHEET NO: 16



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 PLOTTED: Jan 02, 2020 - 1:56pm  
 Crystal Reed



**JUMPER LINE DETAIL STA 21+31**  
NTS

**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

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

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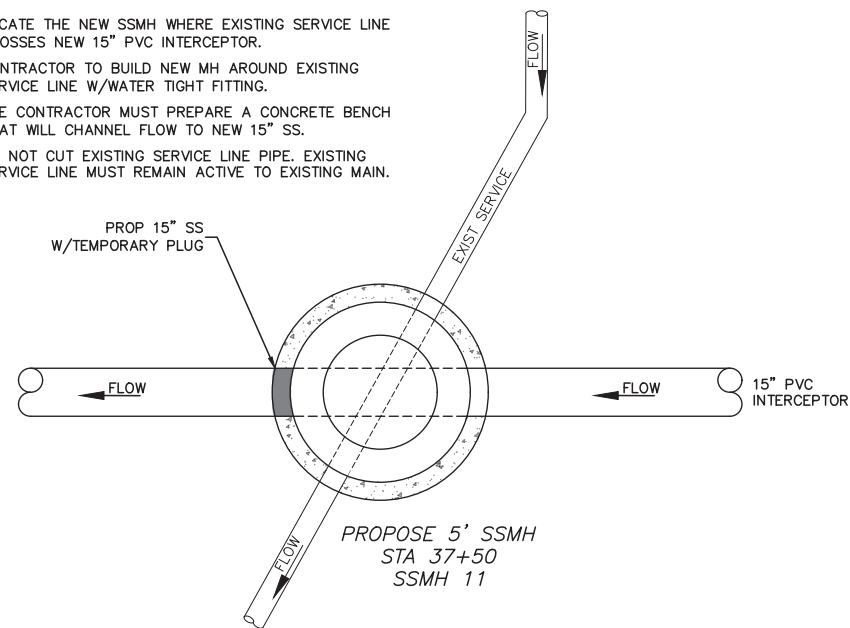
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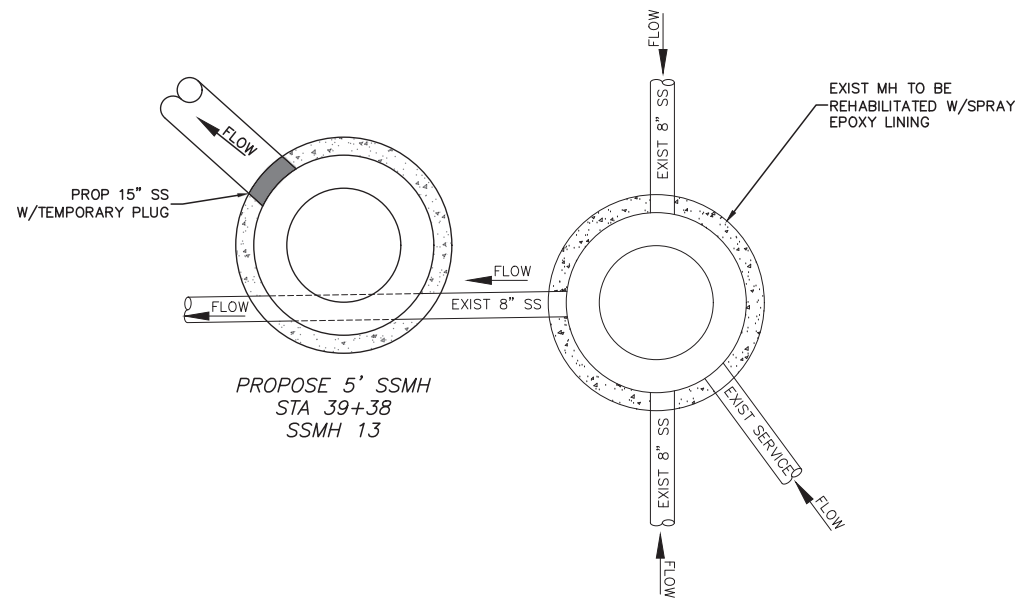
PUBLIC WORKS & ENGINEERING SERVICES	972-450-2871
TEXAS ONE CALL/DIG TESS	1-811-344-8377
ONCOR	1-888-313-6862
AT&T	1-800-331-0500
SPECTRUM/CHARTER COMMUNICATIONS	1-888-438-2427
ATMOS ENERGY	1-888-286-6700

- 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

REV. NO.	DESCRIPTION	CHK. BY	DATE



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

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

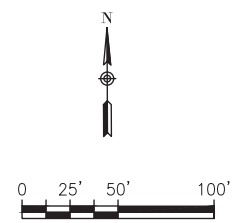
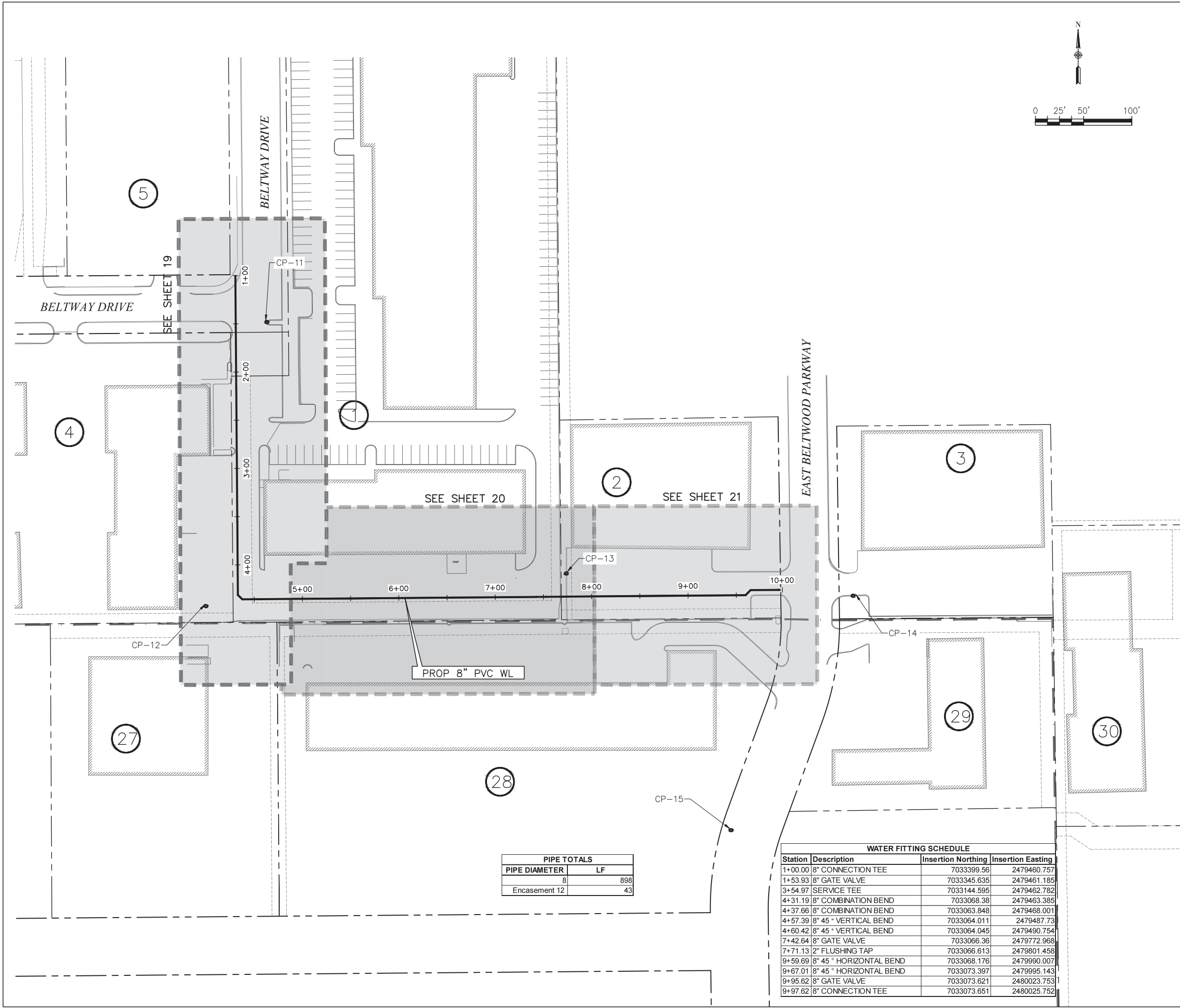
**SANITARY SEWER DETAILS**  
(3 OF 3)

**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: 1/2/2020
DRAWN BY: CMR	PROJECT NO: 513301
CHECKED BY: DEG	DRAWING SCALE: NTS

FILE: DETAILS\_SS.dwg SHEET NO: 17

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 PLOTTED: Jan 02, 2020 - 2:00pm  
 Crystal Reed



**LEGEND**

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

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

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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**

**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**

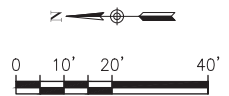
PIPE DIAMETER	LF
8	898
Encasement 12	43

**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

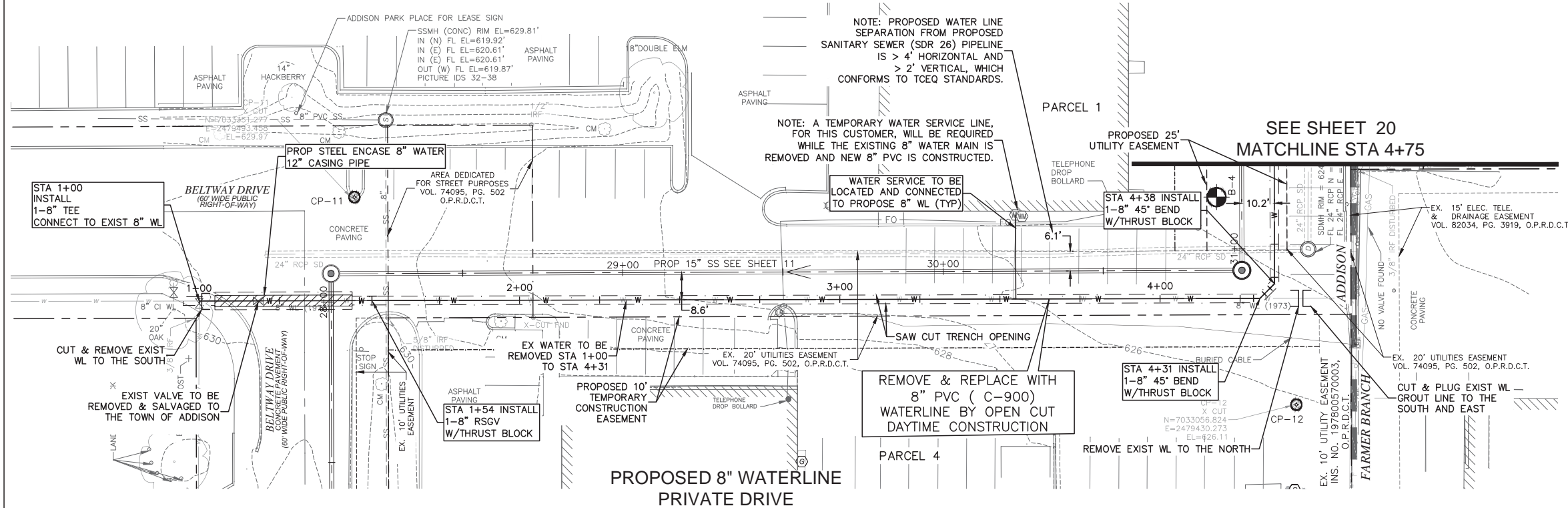
**CONSTRUCT 8" PVC DR 18 WATER MAIN**

EXISTING 8" WATER TO BE REMOVED & REPLACED  
STA 1+00-4+31



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



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

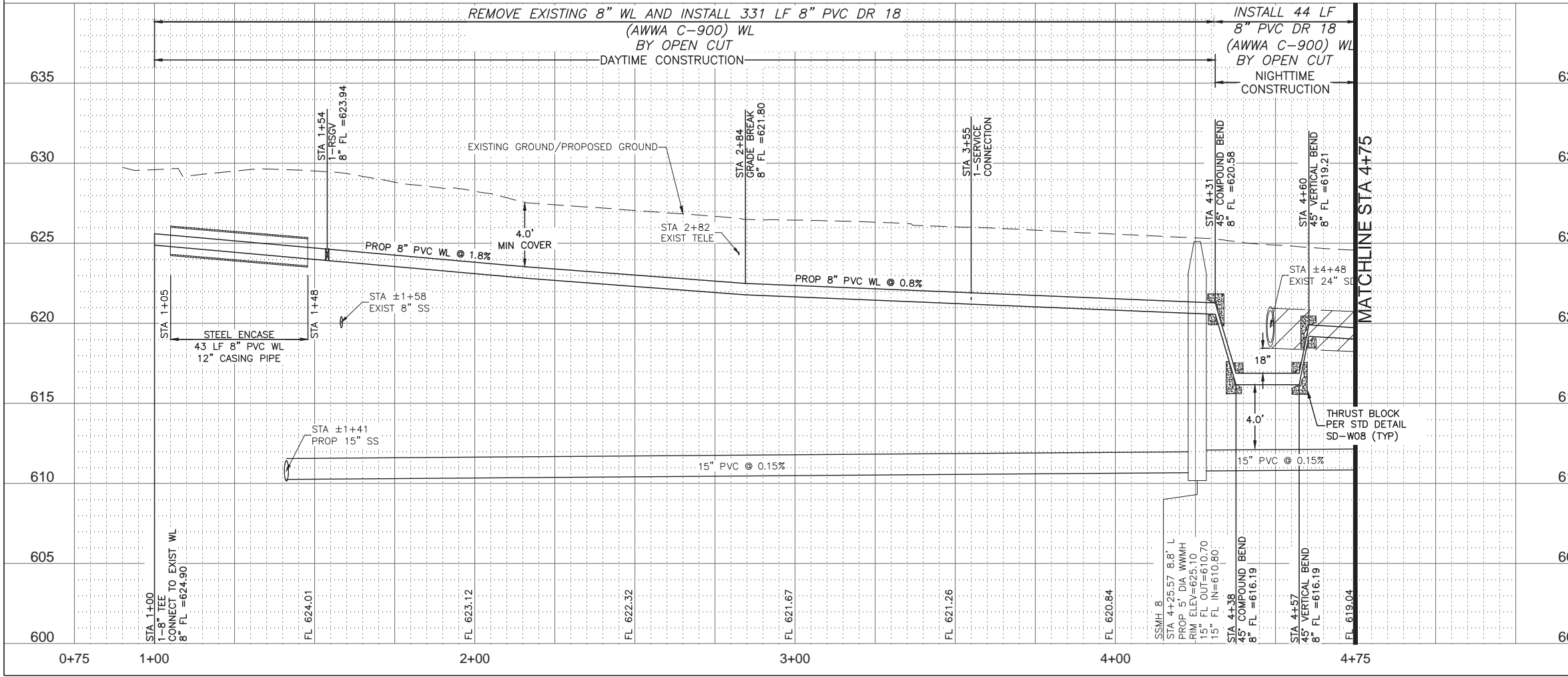
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- TEXAS ONE CALL/DIG TESS 1-811-344-8377
- ONCOR 1-888-313-6862
- AT&T 1-800-331-0500
- SPECTRUM/CHARTER COMMUNICATIONS 1-888-438-2427
- ATMOS ENERGY 1-888-286-6700



REV. NO.	DESCRIPTION	CHK. BY	DATE



ADDISON, TEXAS  
PUBLIC WORKS &  
ENGINEERING SERVICES

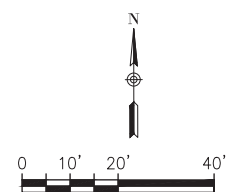
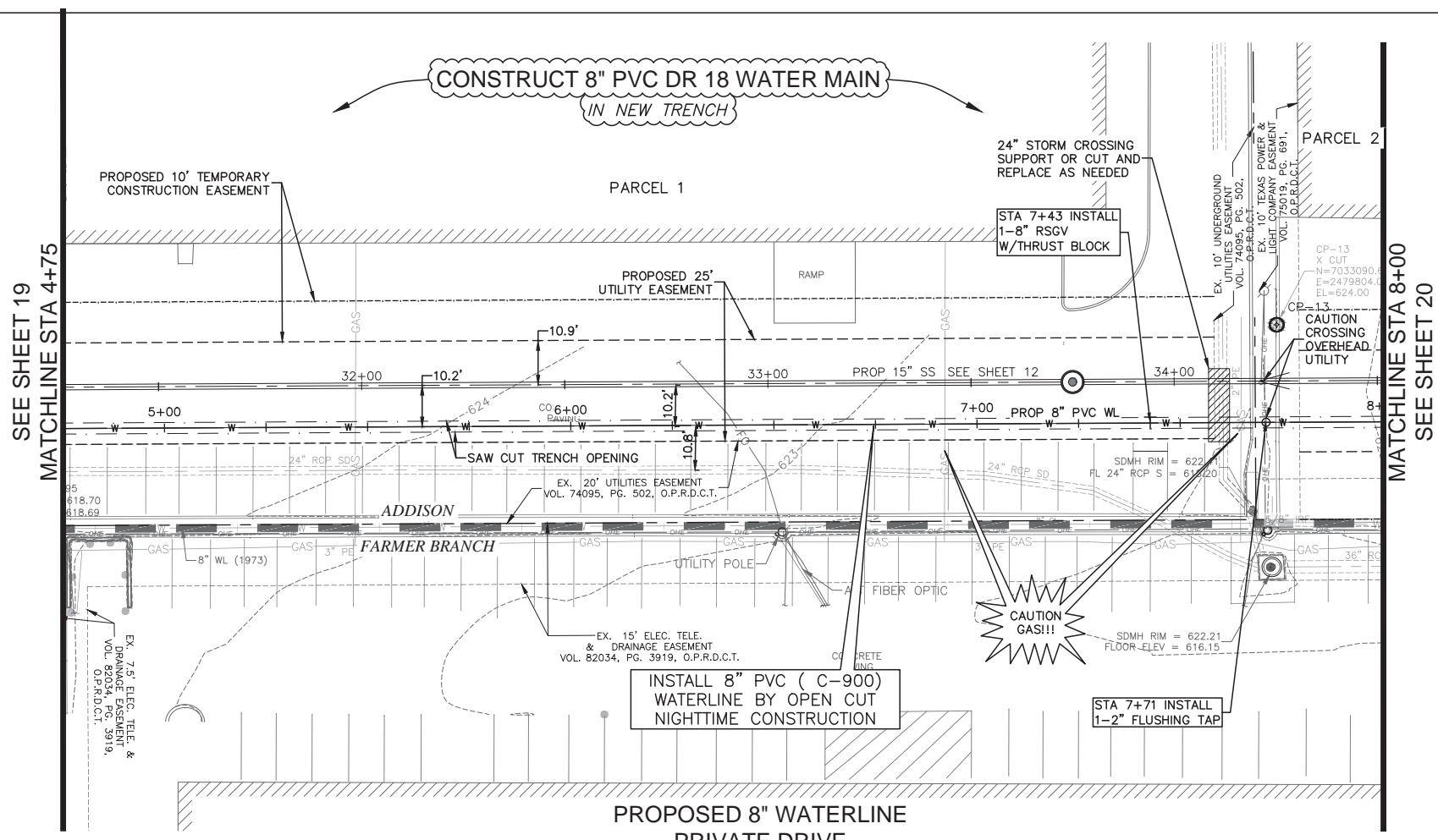
SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
PROJECT NO. 513301

PLAN & PROFILE  
WL 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: 1/2/2020
DRAWN BY: CMR	PROJECT NO: 513301
CHECKED BY: DEG	DRAWING SCALE: 1"=20'H; 1"=5'V
FILE: WATR_PnP.dwg	SHEET NO: 19

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XREF DEC\5133-01\_Exist\_Base.dwg  
PLOTTED: Jan 02, 2020 - 2:00pm  
...chm 3d\5133-01-pipe network.dwg  
CrystalRead



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

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

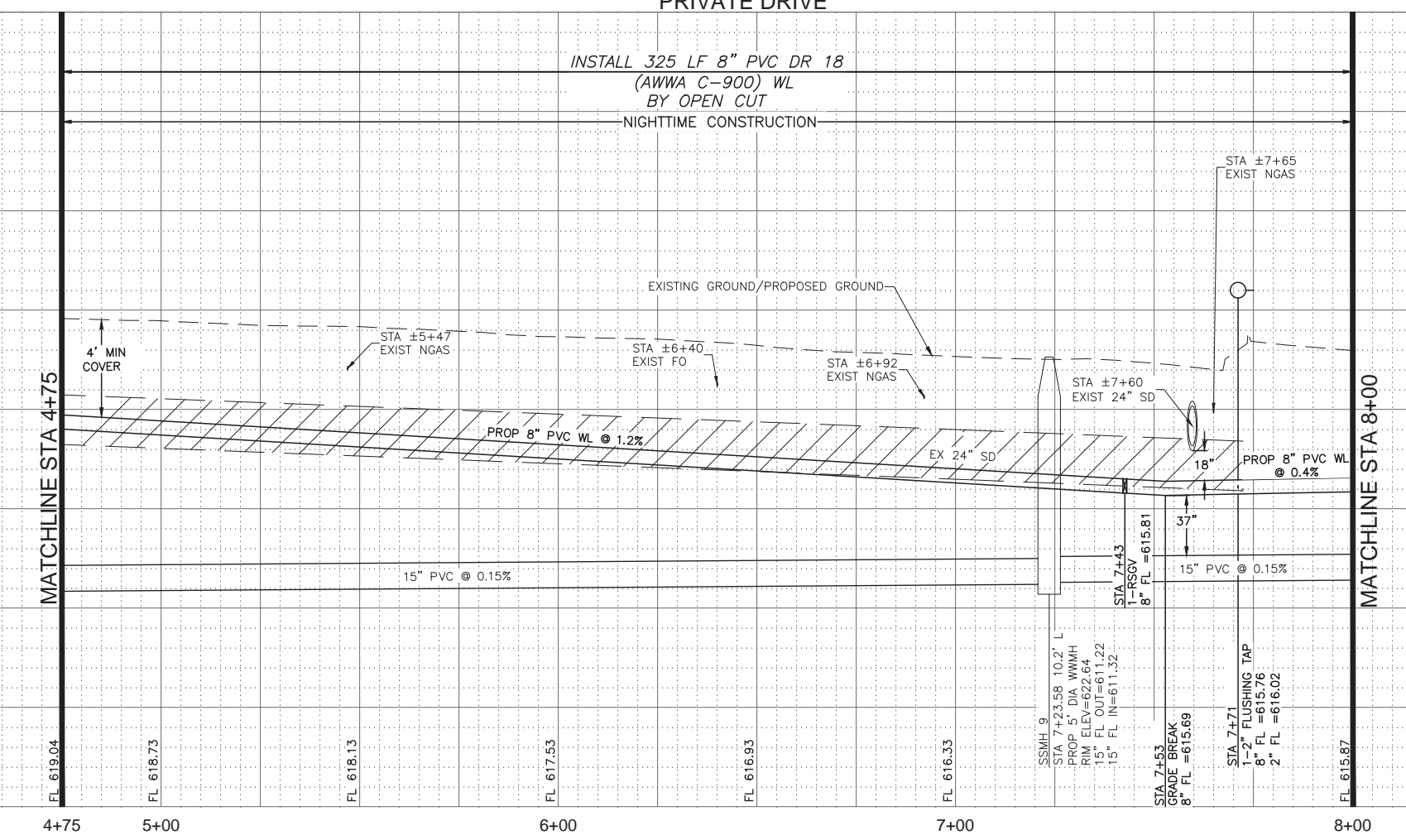
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- |                                     |                |
|-------------------------------------|----------------|
| PUBLIC WORKS & ENGINEERING SERVICES | 972-450-2871   |
| TEXAS ONE CALL/DIG TESS             | 1-811-344-8377 |
| ONCOR          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



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

DESIGNED BY: WBH DATE: 1/2/2020

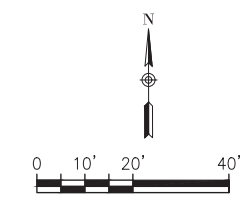
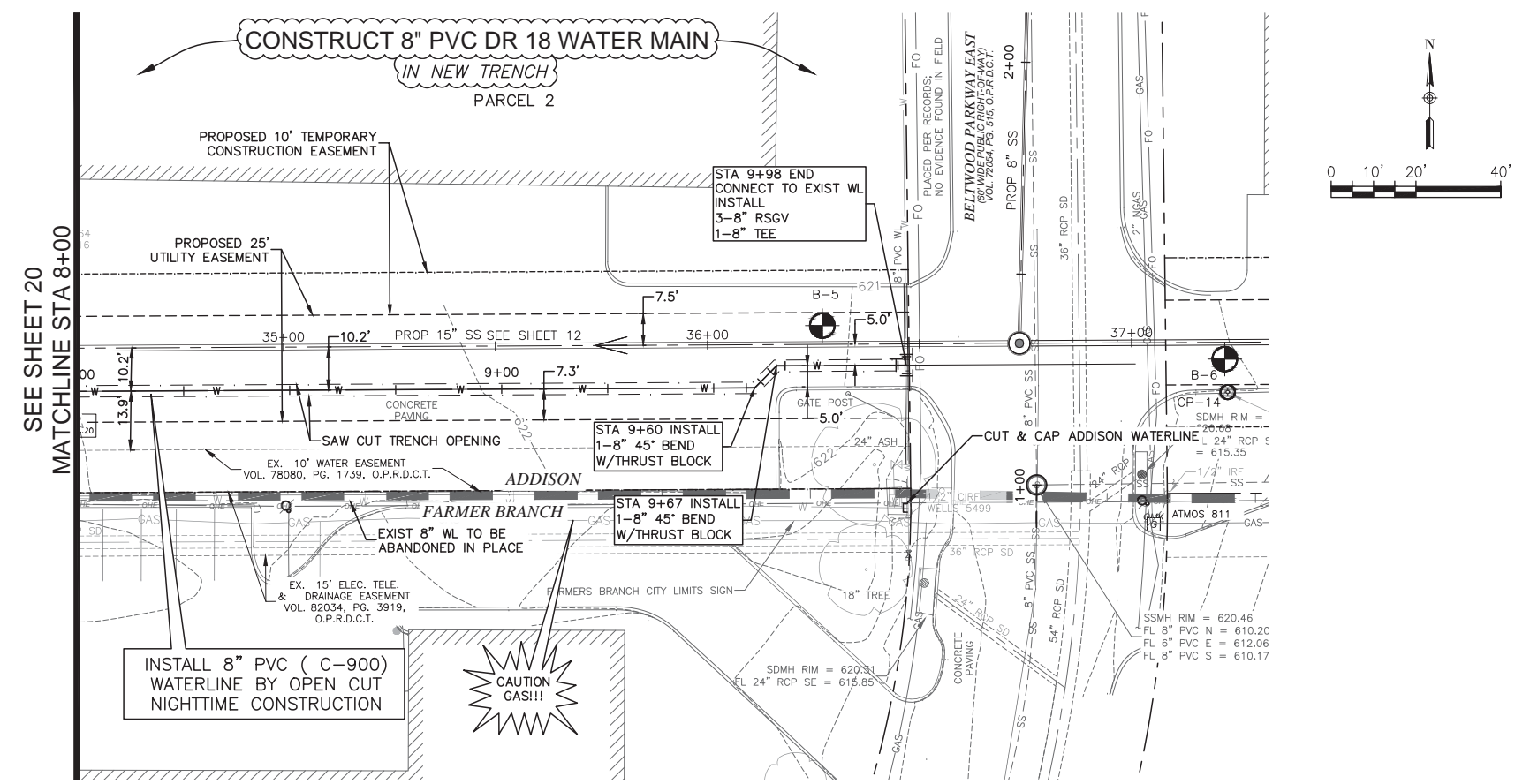
DRAWN BY: CMR PROJECT NO: 513301

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

FILE: WATR\_PnP.dwg SHEET NO: 20

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PLOTTED: Jan 02, 2020 - 3:00pm  
Crystal Reed

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 PLOTTED: Jan 02, 2020 - 2:00pm  
 CrystalRead



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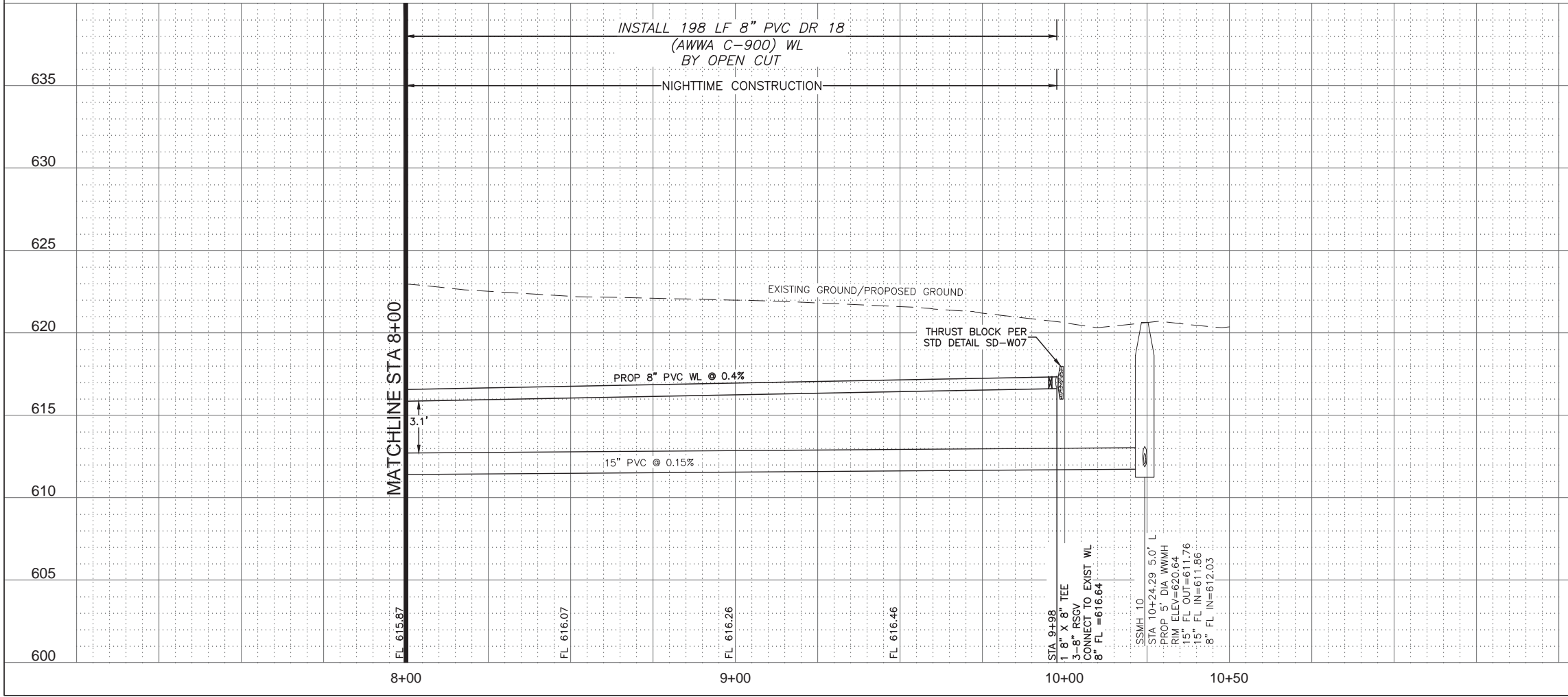
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 ONCOR 1-888-313-6862  
 AT&T 1-800-331-0500  
 SPECTRUM/CHARTER COMMUNICATIONS 1-888-438-2427  
 ATMOS ENERGY 1-888-286-6700

PROPOSED 8" WATERLINE  
 BELTWAY DRIVE TO BELTWOOD PARKWAY EAST



REV. NO.	DESCRIPTION	CHK. BY	DATE



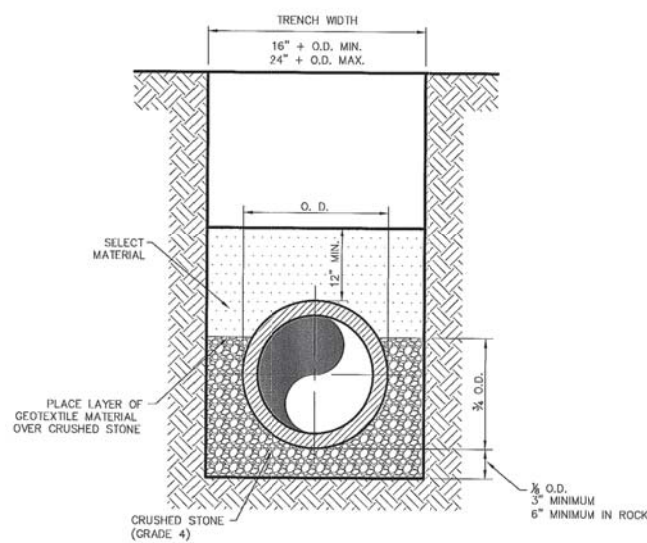
ADDISON, TEXAS  
 PUBLIC WORKS &  
 ENGINEERING SERVICES

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

PLAN & PROFILE  
 WL STA 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: 1/2/2020
DRAWN BY: CMR	PROJECT NO: 513301
CHECKED BY: DEG	DRAWING SCALE: 1"=20'H; 1"=5'V



CLASS "B+" EMBEDMENT

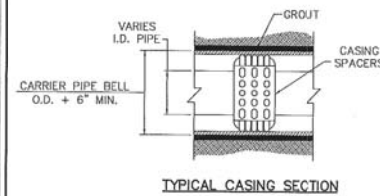
CRUSHED STONE SHALL BE 3/4", PASSING # 4 SIEVE

TYPICAL P.V.C. WATER MAIN EMBEDMENT

Addison!

P.V.C. WATER MAIN EMBEDMENT

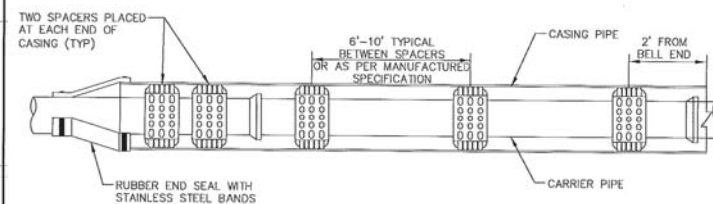
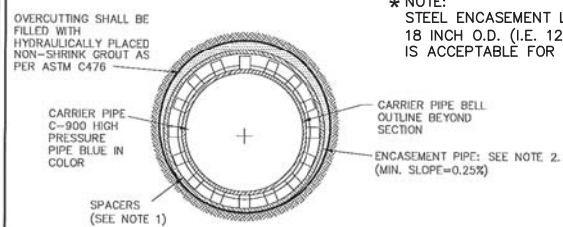
STANDARD CONSTRUCTION DETAILS WATER  
DATE: AUGUST, 2010 REV. DATE: SHEET: SD-W01



CARRIER PIPE SIZE (IN)	STEEL ENCASEMENT O.D. (IN)	STEEL ENCASEMENT WALL THICKNESS (IN)
6	14	1/4
8	18	1/4
12	21	1/4
18	27	3/8
21	30	3/8
24	36	3/8
27	39	1/2

FOR ALL CARRIER PIPES OVER 27", THE STEEL ENCASEMENT PIPE SHALL BE 12" LARGER THAN THE CARRIER PIPE AND THE STEEL ENCASEMENT WALL THICKNESS SHALL BE 1/2".

\* NOTE: STEEL ENCASEMENT LESS THAN 18 INCH O.D. (I.E. 12 INCH O.D.) IS ACCEPTABLE FOR THIS PROJECT



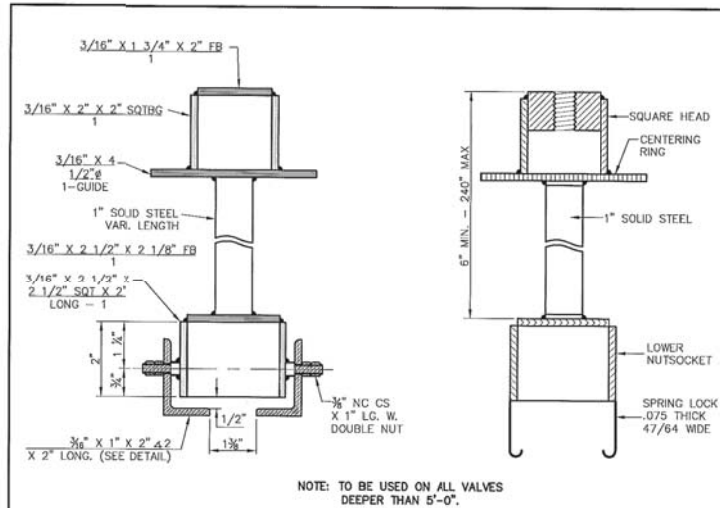
NOTES:

- HIGH DENSITY POLYETHYLENE SPACERS, RAC OR EQUAL, SHALL BE USED. WHERE NO CASING PIPE IS REQUIRED OVERCUTTING AROUND UTILITY SHALL BE FILLED WITH HYDRAULICALLY PLACED NON-SHRINK GROUT AS PER ASTM C476.
- ENCASEMENT PIPE SHALL BE HIGH DENSITY STEEL PIPE. ALL JOINTS TO BE WELDED 100%.

Addison!

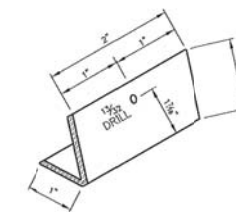
CASING

STANDARD CONSTRUCTION DETAILS WATER  
DATE: AUGUST, 2010 REV. DATE: SHEET: SD-W03



TYPE - B VALVE EXTENSION

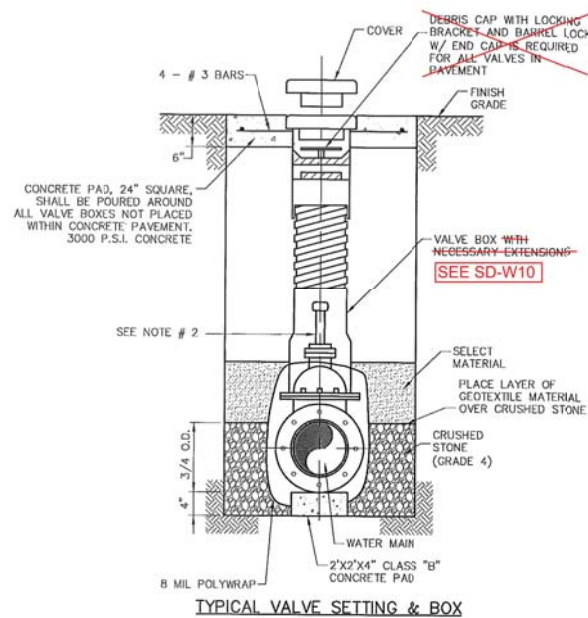
SPRING LOCK VALVE EXTENSION



Addison!

VALVE EXTENSION

STANDARD CONSTRUCTION DETAILS WATER  
DATE: AUGUST, 2010 REV. DATE: SHEET: SD-W11

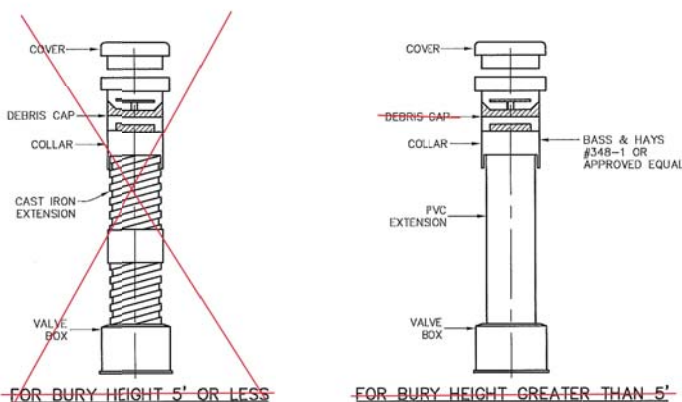


- NOTE:
- 4"-12" R.S. GATE VALVES SHALL BE IN ACCORDANCE WITH TOWN OF ADDISON WATER SYSTEM REQUIREMENTS.
  - A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE WHERE THE OPERATING NUT IS LOCATED IN EXCESS OF 5 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 5 FEET OF VALVE BOX LID.
  - BLUE "V" (3") CUT INTO FACE OF NEAREST CURB AND POINTING TOWARD THE VALVE.
  - ALL IRON MATERIALS SHALL BE DOMESTIC. (MADE IN USA)
  - CRUSHED STONE SHALL BE 3/4", PASSING #4 SIEVE.

Addison!

VALVE SETTING BOX

STANDARD CONSTRUCTION DETAILS WATER  
DATE: AUGUST, 2010 REV. DATE: 10/06/17 SHEET: SD-W09



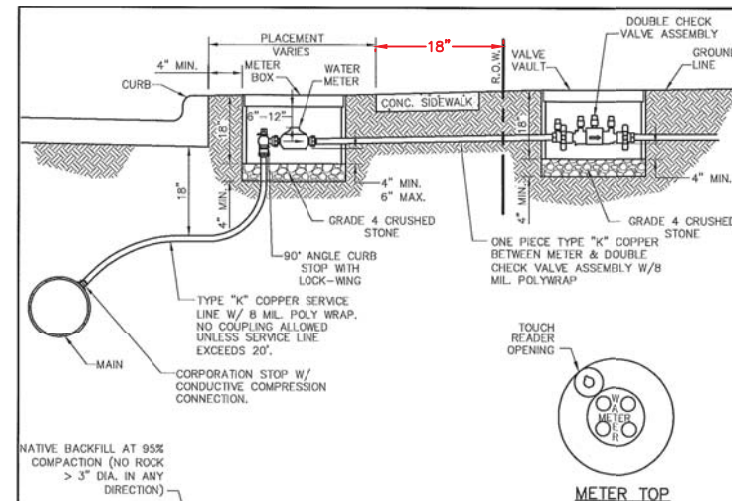
NOTE

- ALL CAST IRON FITTINGS SHALL BE DOMESTIC. (MADE IN U.S.A.)
- VALVE BOXES SHALL BE PROVIDED FOR BURIED VALVES. THESE BOXES SHALL BE THREE (3) PIECE SCREW TYPE CAST IRON OF THE EXTENSION TYPE AND SHALL BE: BASS & HAYS THREE (3) PIECE ADJUSTABLE SCREW TYPE EAST JORDAN IRON WORKS 0500-W/0800-LID; MUELLER NO-H-10360 OR APPROVED EQUAL. THE THREE (3) PIECES SHALL CONSIST OF THE TOP SECTION, BOTTOM SECTION AND COVER.

Addison!

VALVE BOX WITH EXTENSION

STANDARD CONSTRUCTION DETAILS WATER  
DATE: AUGUST, 2010 REV. DATE: SHEET: SD-W10  
JANUARY 2017



Type "K" Copper Service Pipes	Double Strap Bronze Service Saddle with C.C. Threads	East Jordan Iron Works Galvanized Meter Box With Iron Ring & Cover				
		Min. Dia. Covers & Rings	Min. Ht.	Min. Con Weight	Min. Total Weight	
3/4 inch	3/4 inch	18 inches	12 1/2 inches	18 inches	13 lbs.	42 lbs.
1 inch	1 inch	24 inches	20 1/2 inches	18 inches	17 lbs.	98 lbs.
1 1/2 inch	1 1/2 inch	28 inches	20 1/2 inches	18 inches	20 lbs.	127 lbs.
2 inch	2 inch	28 inches	20 1/2 inches	18 inches	20 lbs.	127 lbs.

Addison!

SERVICE CONNECTION WITH METER BOX

STANDARD CONSTRUCTION DETAILS WATER  
DATE: AUGUST, 2010 REV. DATE: SHEET: SD-W20

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

WATER 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

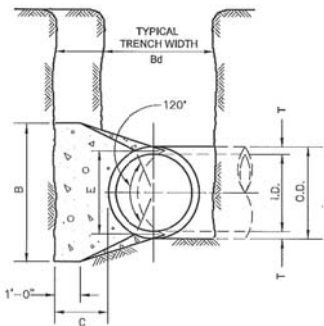
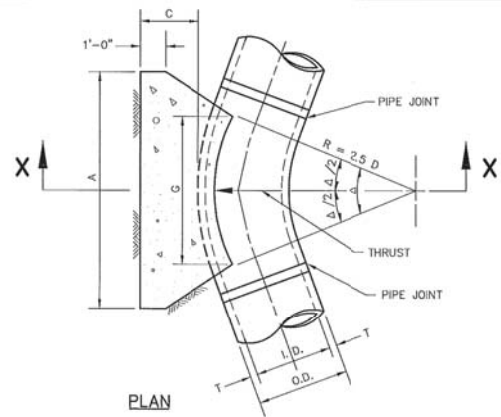
DESIGNED BY: WBH DATE: 1/2/2020

DRAWN BY: CMR PROJECT NO: 513301

CHECKED BY: DEG DRAWING SCALE: NTS

FILE: DETAILS\_WTR.dwg SHEET NO: 22

G:\1220\5133-01 Addison Basin 1 Final Design\CAD\Sheets\... \XREF\border\abor.dwg  
PLOTTED: Jan 02, 2020 - 1:56pm  
Crystal Reed



SECTION X-X



HORIZONTAL THRUST BLOCK AT PIPE BEND

STANDARD CONSTRUCTION DETAILS WATER  
DATE: AUGUST, 2010 REV DATE: SHEET: 50-104

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	0.8	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	2.8
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	6.2	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	26.8	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	9.1
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	22.5	8.0	11.7
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	14.8
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	17.7
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	21.8

TABLES OF DIMENSIONS AND QUANTITIES



HORIZONTAL THRUST BLOCK DIMENSIONS & QUANTITIES

STANDARD CONSTRUCTION DETAILS WATER  
DATE: AUGUST, 2010 REV DATE: SHEET: 50-105

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	16.2
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	365.5	24.5	15.0	74.5	17.5	39.6
96	11.8	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

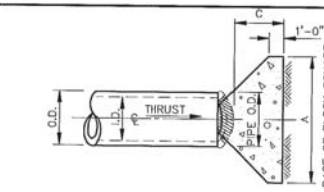
I.D. (IN.)	Δ = 67.50°						Δ = 90°									
	EARTH			ROCK			EARTH			ROCK						
G (FT.)	THRUST (TONS)	A (FT.)	B (FT.)	VOL. (C.Y.)	A (FT.)	B (FT.)	G (FT.)	THRUST (TONS)	A (FT.)	B (FT.)	VOL. (C.Y.)					
4,6,8	2.1	5.6	3.0	2.0	0.3	2.0	1.5	0.2	4,6,8	2.7	7.1	5.0	1.5	0.4	2.0	0.2
10,12	3.1	12.6	5.5	2.5	0.8	3.5	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	28.2	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	57.6	19.0	9.0	28.4	72	23.8	431.8	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	506.7	39.0	13.0	108.2	26.0	10.0
84	21.8	462.1	33.5	14.0	94.7	22.0	10.5	48.5	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	29.0	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

TABLES OF DIMENSIONS AND QUANTITIES

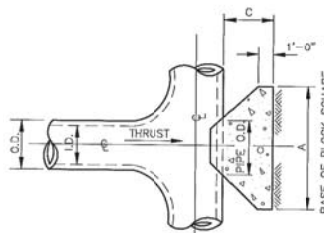


HORIZONTAL THRUST BLOCK DIMENSIONS & QUANTITIES

STANDARD CONSTRUCTION DETAILS WATER  
DATE: AUGUST, 2010 REV DATE: SHEET: 50-106



PLAN OF PLUG THRUST BLOCK



PLAN OF TEE THRUST BLOCK

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	8.2
48	136.0	5.0	12.0	15.6	8.5	8.7

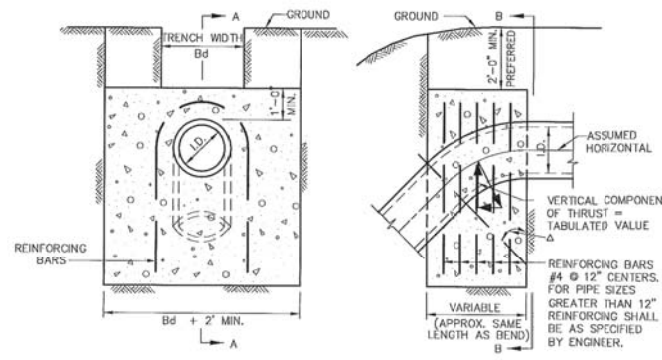
I.D. (IN.)	THRUST (TONS)	C (FT.)	EARTH		ROCK	
			A (FT.)	VOL. (C.Y.)	A (FT.)	VOL. (C.Y.)
54	172.0	5.5	13.5	21.4	9.5	11.9
60	212.0	6.0	15.0	28.4	10.5	15.7
66	257.0	6.5	16.5	36.8	11.5	20.5
72	305.0	7.5	17.5	47.2	12.5	27.2
78	358.0	8.0	19.0	58.9	13.5	33.7
84	416.0	8.5	20.5	72.3	14.5	41.2
90	477.0	9.0	22.0	87.7	15.5	49.7
96	543.0	8.5	23.5	104.8	16.5	51.0

TABLES OF DIMENSIONS AND QUANTITIES



HORIZONTAL THRUST BLOCK AT TEES & PLUGS

STANDARD CONSTRUCTION DETAILS WATER  
DATE: AUGUST, 2010 REV DATE: SHEET: 50-107



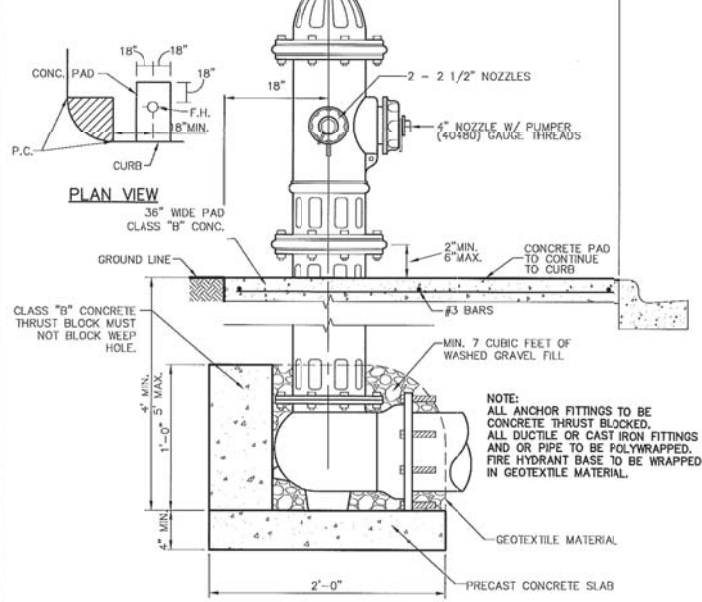
ELEVATION "B-B"

SECTION "A-A"

I.D. (IN.)	11.25°		22.50°		30°		45°		67.50°		90°		I.D. (IN.)	Δ
	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)						

NOTE:

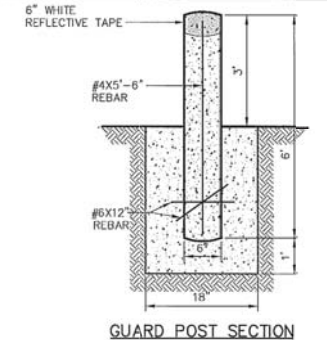
- DESIGN, SITE REQUIREMENTS, THE GENERAL OPERATION, PAINTING AND DELIVERY OF ALL FIRE HYDRANTS SHALL BE IN ACCORDANCE WITH THE TOWN OF ADDISON WATER SYSTEM REQUIREMENTS.
- FIRE HYDRANTS SHALL BE LOCATED A MINIMUM OF 18" OUTSIDE OF THE AREA BETWEEN THE P.C.'S OF THE CORNER TURNING RADIUS AT INTERSECTIONS AND DRIVEWAYS (SEE PLAN VIEW).



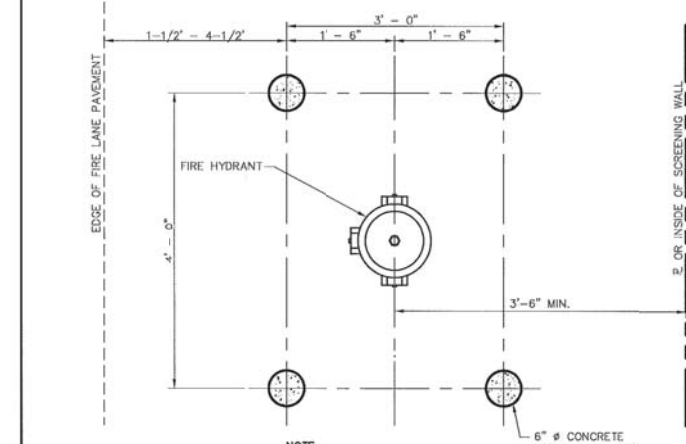
TYPICAL FIRE HYDRANT INSTALLATION

 PUBLIC WORKS DEPARTMENT	TYPICAL FIRE HYDRANT INSTALLATION	STANDARD CONSTRUCTION DETAILS WATER		
		DATE: AUGUST, 2010	REV DATE: -	SHEET: SD-W16

NOTE:  
6" STEEL PIPE W/CONCRETE FILL 6' LENGTH (3' ABOVE PAVING, 3' BELOW PAVING) WITH 1-#4X5'-6" TO BE CASED IN 18" PER TO DEPTH OF 1'-0" BELOW BOTTOM OF PIPE. USE 2-#6X12" REBAR THRU PIPE INTO CONCRETE PIER. PIPES TO BE PAINTED TRAFFIC YELLOW W/ 6" WHITE REFLECTOR TAPE.

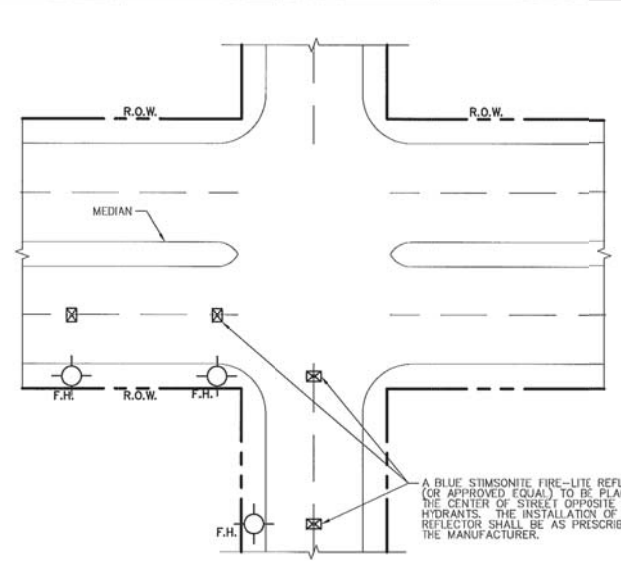


GUARD POST SECTION



FIRE HYDRANT GUARD POST

 PUBLIC WORKS DEPARTMENT	FIRE HYDRANT GUARD POST	STANDARD CONSTRUCTION DETAILS WATER		
		DATE: AUGUST, 2010	REV DATE: -	SHEET: SD-W16



TYPICAL FIRE HYDRANT REFLECTOR INSTALLATION

 PUBLIC WORKS DEPARTMENT	FIRE HYDRANT REFLECTOR INSTALLATION	STANDARD CONSTRUCTION DETAILS WATER		
		DATE: AUGUST, 2010	REV DATE: -	SHEET: SD-W19

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

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

WATER DETAILS (3 OF 3)

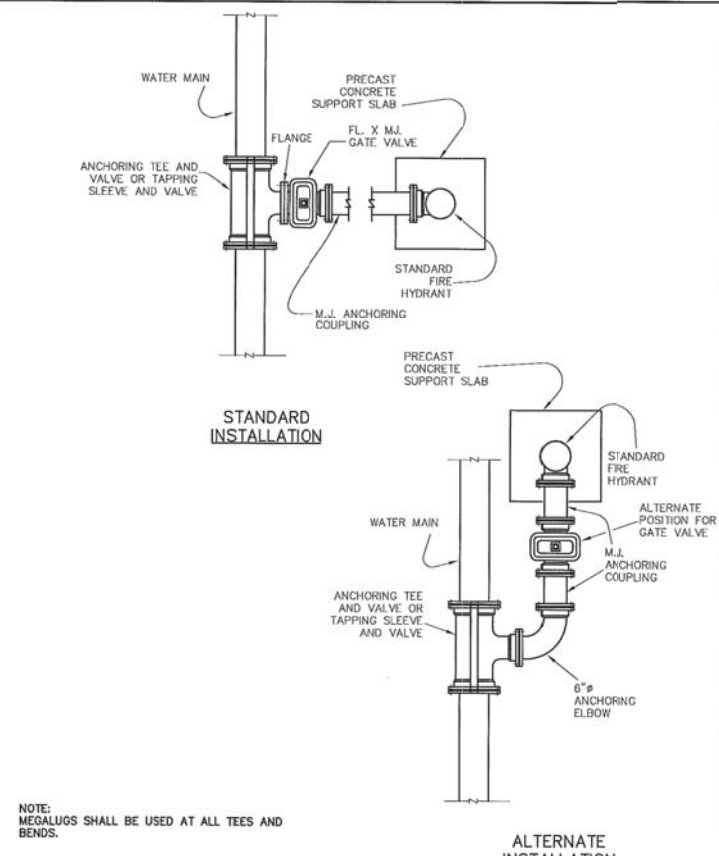
**DANNENBAUM**  
ENGINEERING COMPANY - DALLAS, LLC  
T.B.P.E. FIRM REGISTRATION #8996  
3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

DESIGNED BY: WBH	DATE: 1/2/2020
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DRAWN BY: CMR	PROJECT NO: 513301
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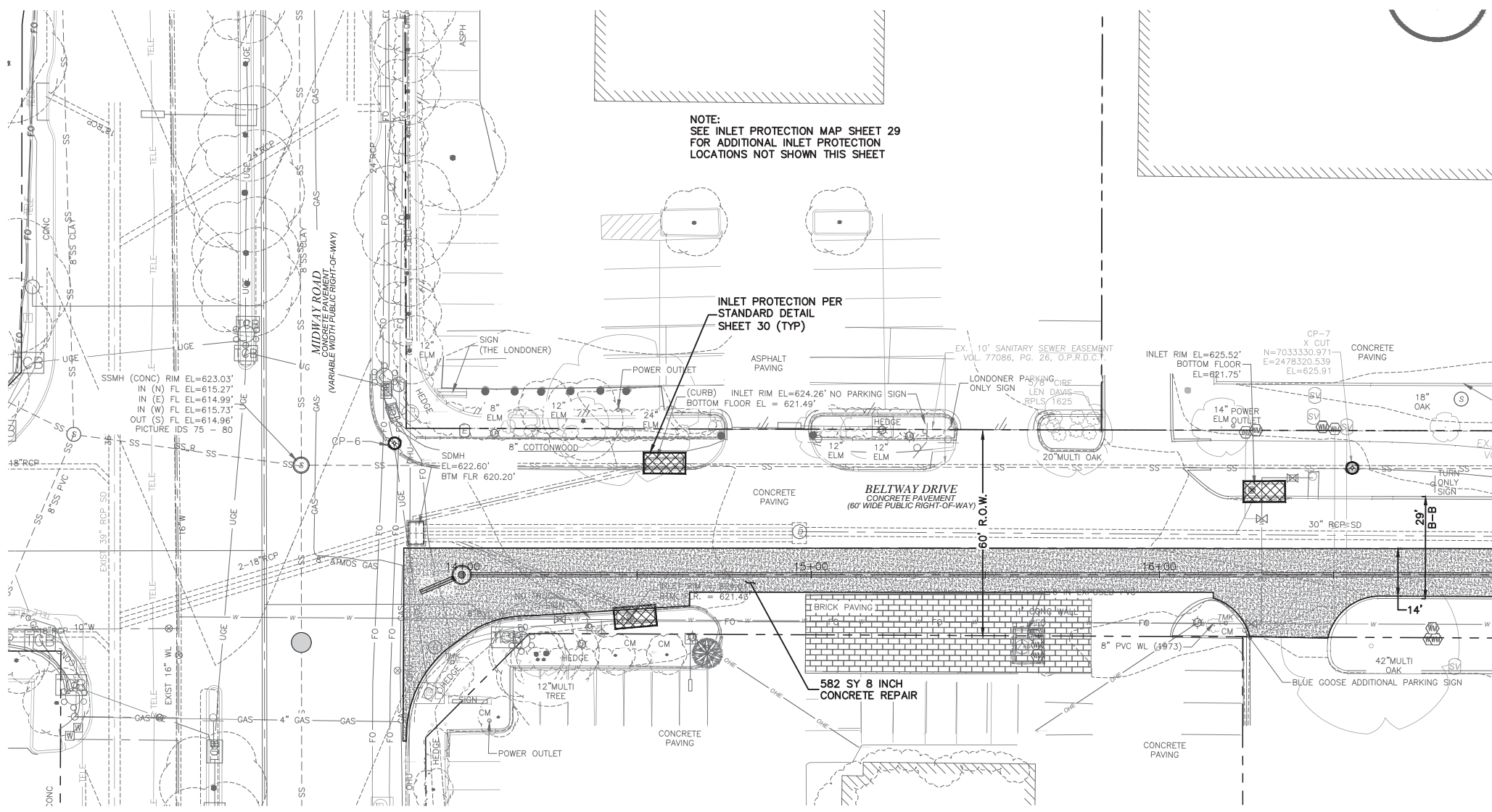
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FILE: DETAILS_WTR.dwg	SHEET NO: 24
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TYPICAL FIRE HYDRANT INSTALLATION

 PUBLIC WORKS DEPARTMENT	TYPICAL FIRE HYDRANT INSTALLATION	STANDARD CONSTRUCTION DETAILS WATER		
		DATE: AUGUST, 2010	REV DATE: -	SHEET: SD-W17



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

CONTROL  
 CP-5  
 X CUT  
 N=7033161.667  
 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

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

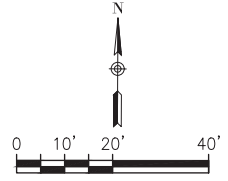
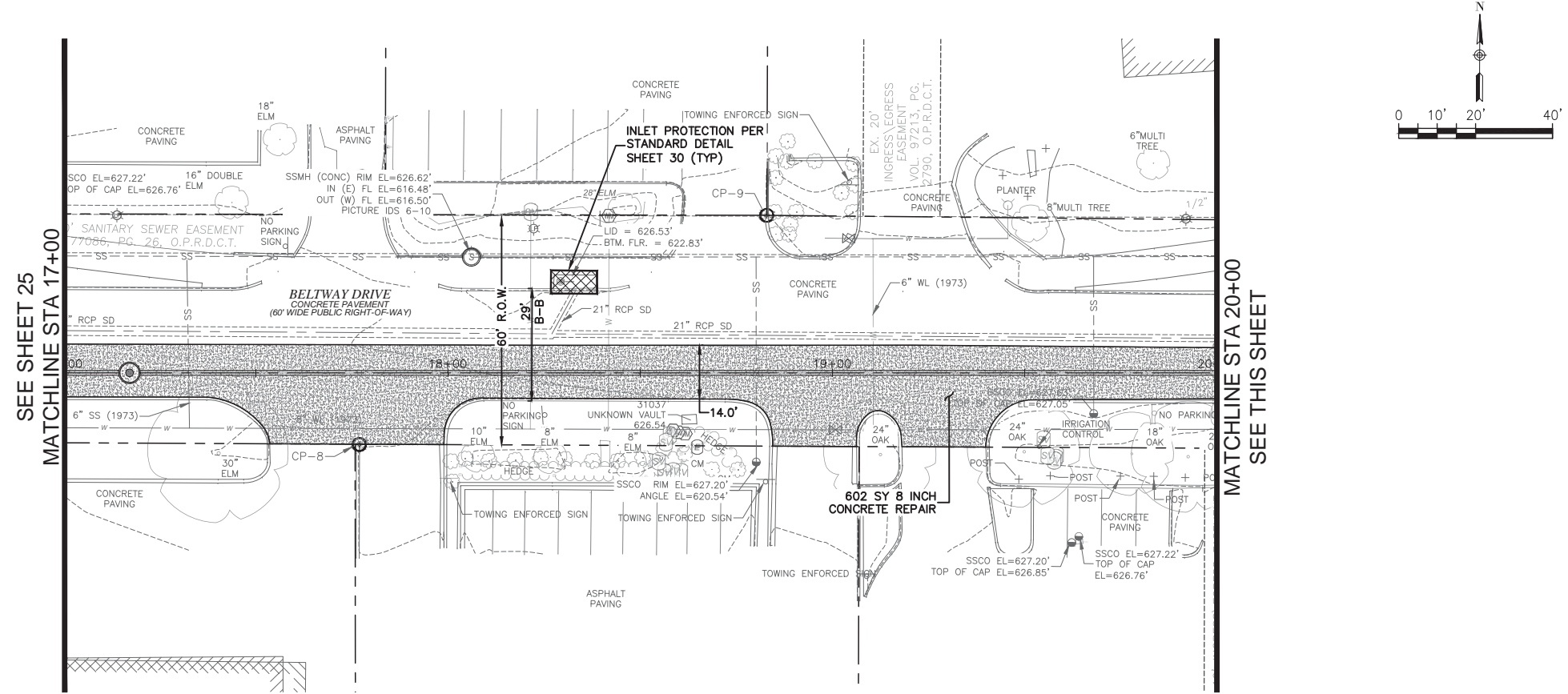
PAVE RESTORATION  
 BEGIN TO STA 17+00

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

DESIGNED BY: WBH	DATE: 1/2/2020
DRAWN BY: CMR	PROJECT NO: 513301
CHECKED BY: DEG	DRAWING SCALE: 1"=20'
FILE: PAVING.dwg	SHEET NO: 25

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 XREF DEC\5133-01\_Exist\_Base.dwg  
 XREF 3D\5133-01-Pipe\_Network.dwg  
 PLOTTED: Jan 02, 2020 - 1:56pm  
 Crystal Reed

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 XREF DEC\5133-01\_Exist\_Base.dwg  
 XREF DEC\5133-01\_Pipe\_Network.dwg  
 PLOTTED: Jan 02, 2020 -- 1:56pm  
 Crystal Reed



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

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

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

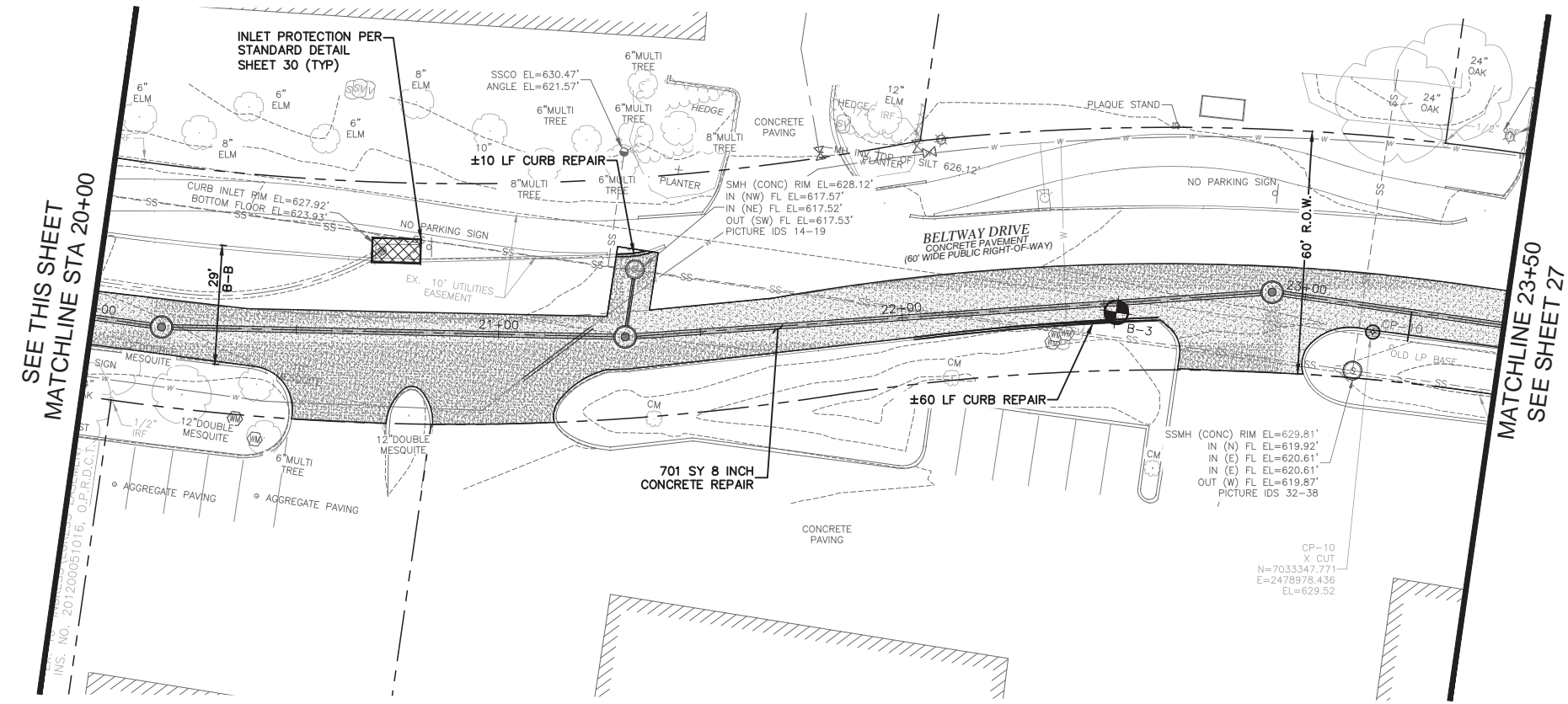
NOTE: ALL COORDINATES ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE, NAD 83. ALL DISTANCES AND COORDINATES ARE EXPRESSED IN US SURVEY FEET. ALL DISTANCES AND COORDINATES ARE SURFACE AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SURFACE FACTOR OF 0.9998496003.

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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

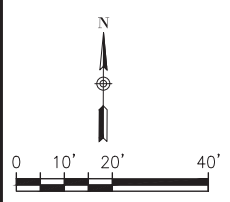
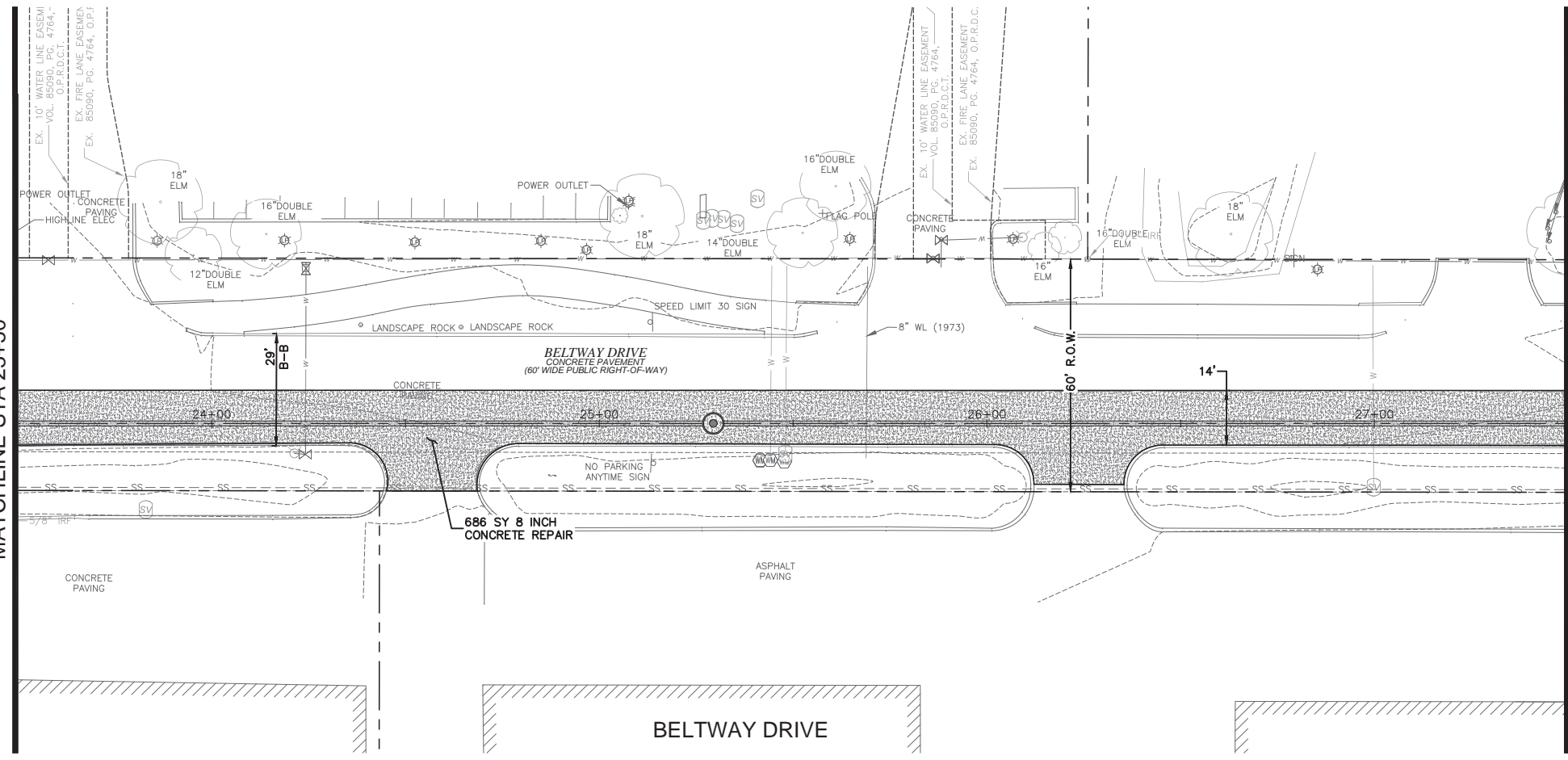
PAVE RESTORATION  
 STA 17+00 TO 23+50






**DANNENBAUM**  
 ENGINEERING COMPANY - DALLAS, LLC  
 T.B.P.E. FIRM REGISTRATION #8996  
 3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2902

DESIGNED BY: WBH	DATE: 1/2/2020
DRAWN BY: CMR	PROJECT NO: 513301
CHECKED BY: DEG	DRAWING SCALE: 1"=20'
FILE: PAVING.dwg	SHEET NO: 26

SEE SHEET 26  
MATCHLINE STA 23+50

MATCHLINE STA 27+50  
SEE THIS SHEET



-  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.

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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



**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: 1/2/2020

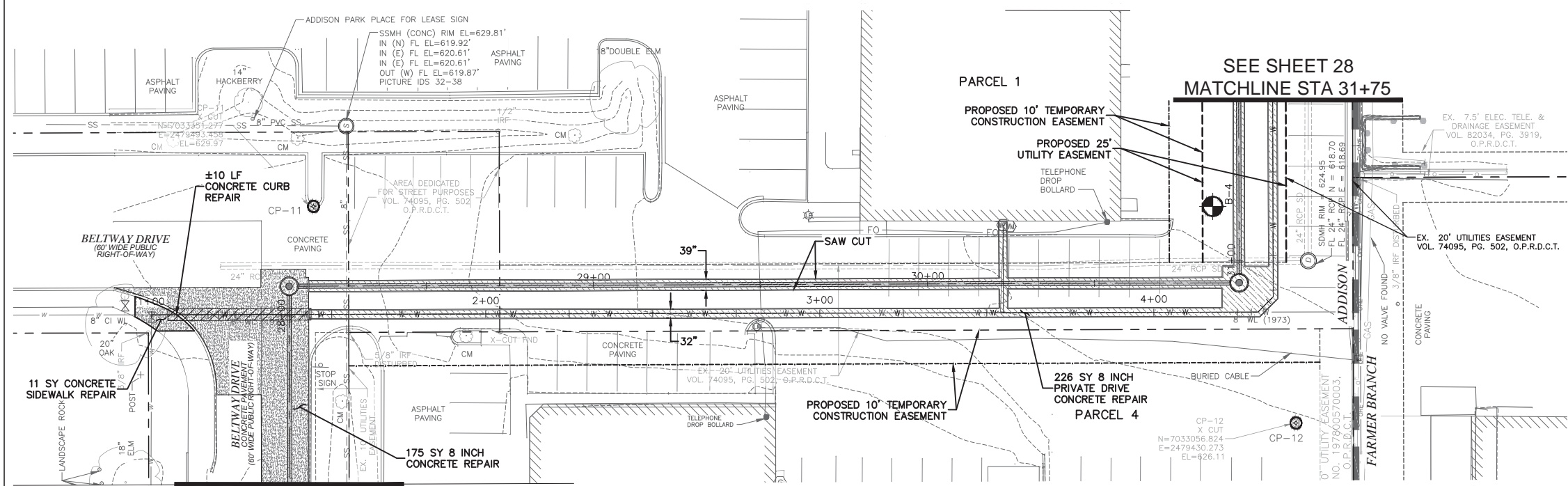
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CHECKED BY: DEG DRAWING SCALE: 1"=20'

FILE: PAVING.dwg SHEET NO: 27

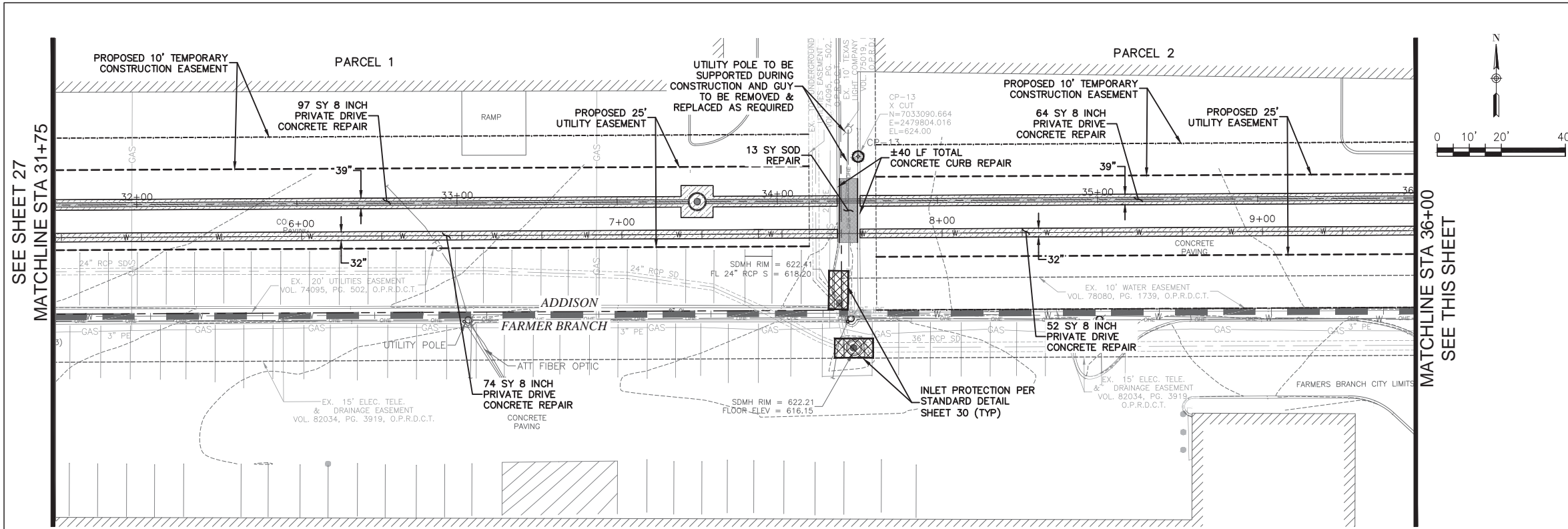
MATCHLINE STA 27+50  
SEE THIS SHEET

SEE SHEET 28  
MATCHLINE STA 31+75



PRIVATE DRIVE

G:\1220\5133-01 Addison Basin 1 Final Design\CAD\Sheets\...  
XREF Border\border.dwg  
XREF DEC\5133-01\_Exist\_Base.dwg  
XREF DEC\5133-01\_Pipe\_Network.dwg  
CrystalRead  
PLOTTED: Jan 02, 2020 -- 1:57pm



PRIVATE DRIVE

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

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

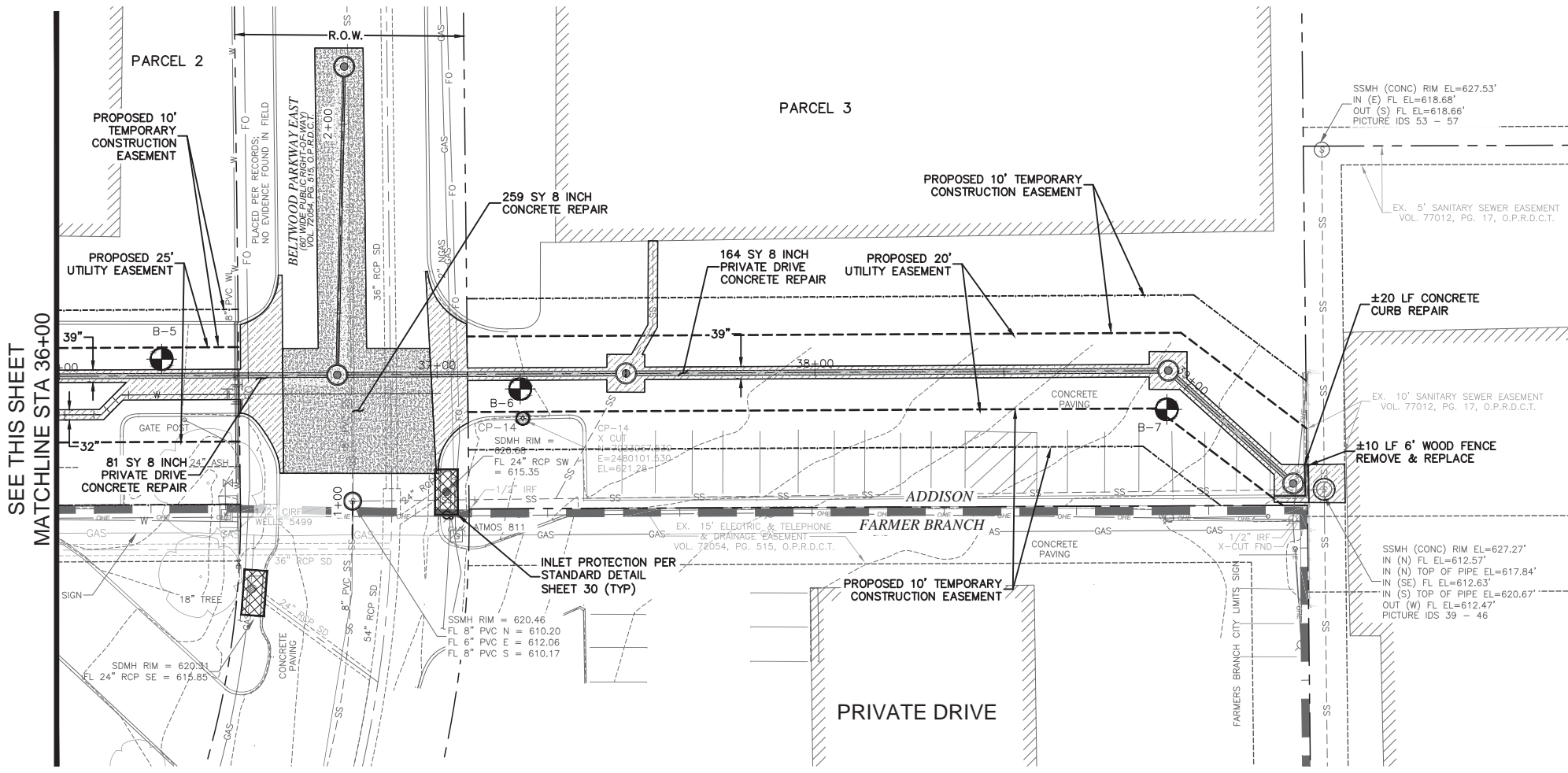
**NOTE:** ALL COORDINATES ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE, NAD 83. ALL DISTANCES AND COORDINATES ARE EXPRESSED IN US SURVEY FEET. ALL DISTANCES AND COORDINATES ARE SURFACE AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SURFACE FACTOR OF 0.9998496003.

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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



PRIVATE DRIVE

REV. NO.	DESCRIPTION	CHK. BY	DATE



**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: 1/2/2020

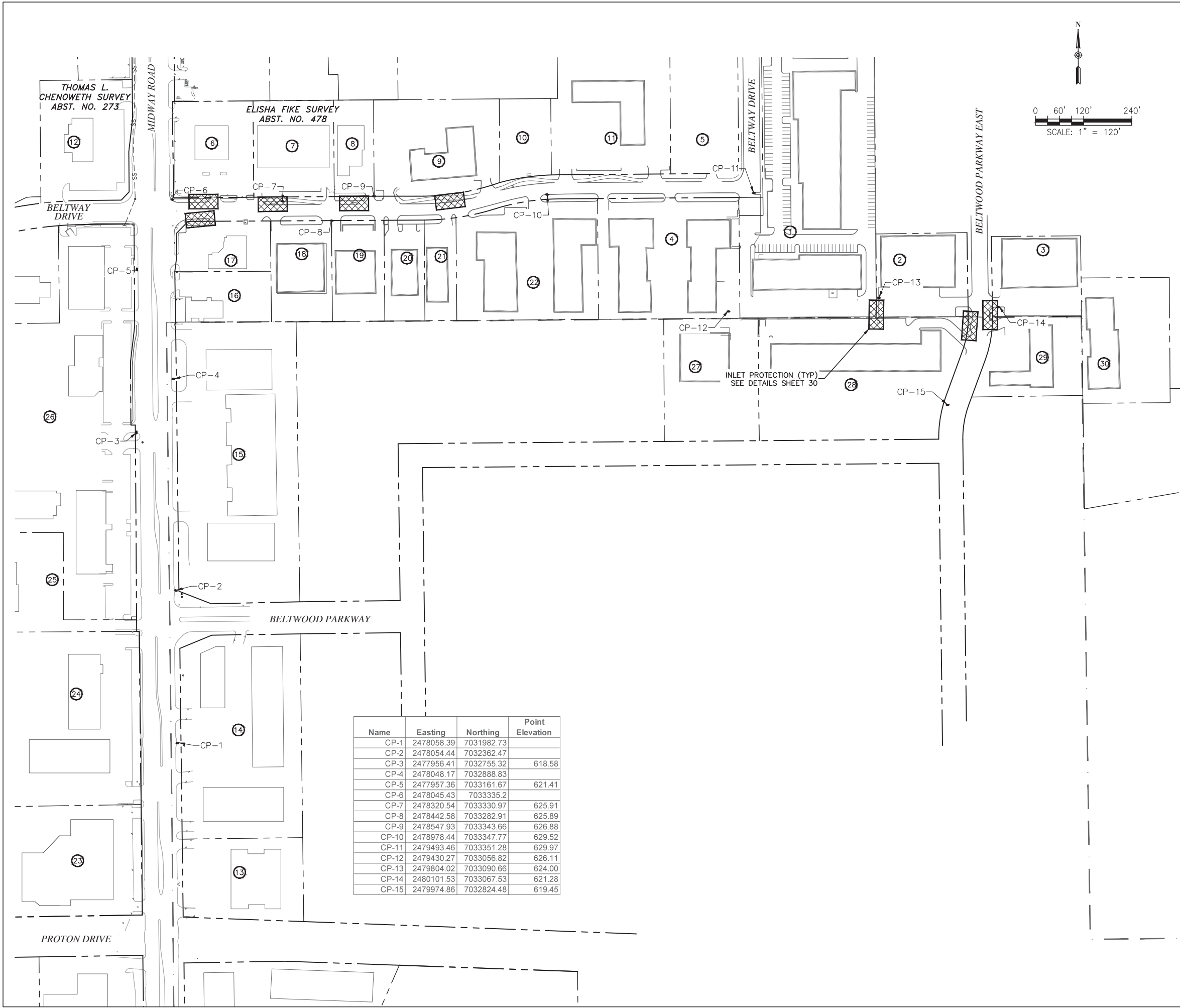
DRAWN BY: CMR      PROJECT NO: 513301

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

FILE: PAVING.dwg      SHEET NO: 28

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 XREF DEC\5133-01\_Exist\_Base.dwg  
 XREF DEC\5133-01\_Pipe\_Network.dwg  
 PLOTTED: Jan 02, 2020 - 1:57pm  
 Crystal Reed

G:\1220\5133-01 Addison Basin\_1 Final Design\CAD\Sheets\...  
 PLOTTED: Jan 02, 2020 -- 1:57pm  
 Crystal Reed



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
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

**LEGEND**

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

**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
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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



**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

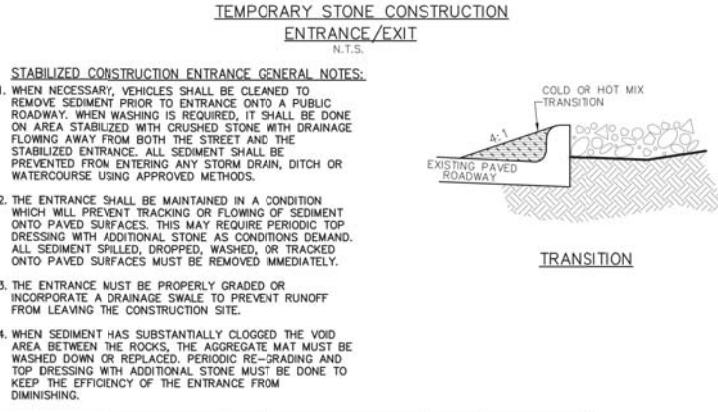
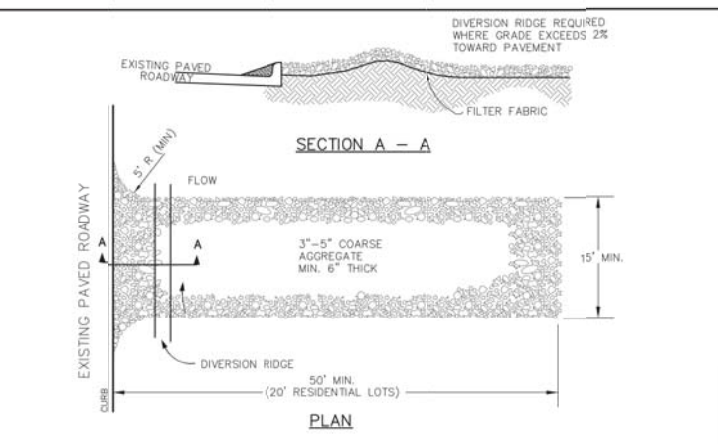
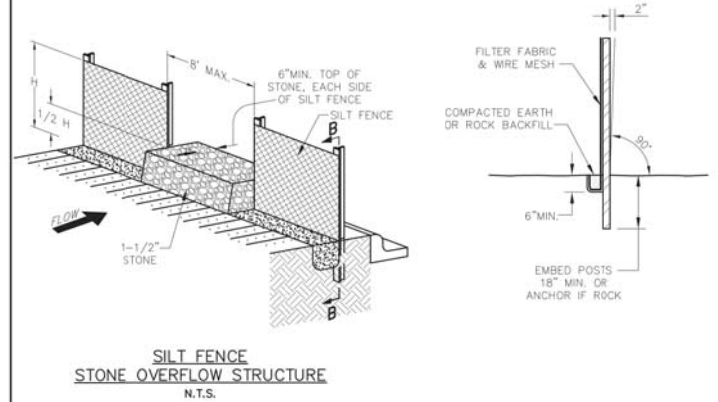
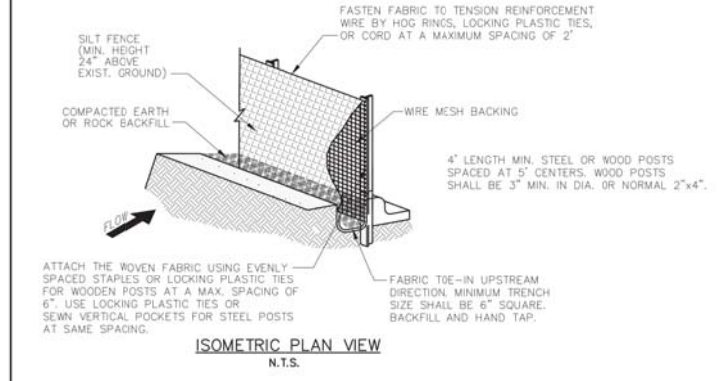
DESIGNED BY: WBH	DATE: 1/2/2020
DRAWN BY: CMR	PROJECT NO: 513301
CHECKED BY: DEG	DRAWING SCALE: 1"=120'
FILE: 05 inlet protection.dwg	SHEET NO: 29

**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**

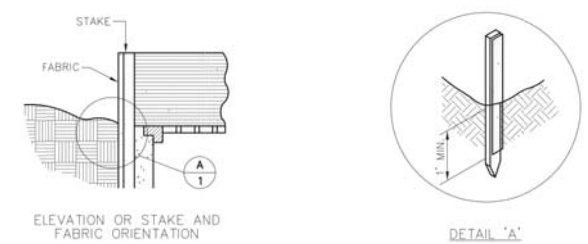
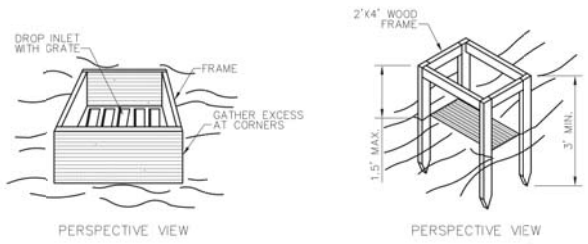
- POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. THE POST MUST BE EMBEDDED A MINIMUM OF 18 INCHES.
- THE TOP OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE 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.



Addison! PUBLIC WORKS DEPARTMENT	EROSION CONTROL & SILT FENCE NOTES	STANDARD CONSTRUCTION DETAILS EROSION CONTROL		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: 50-EC03

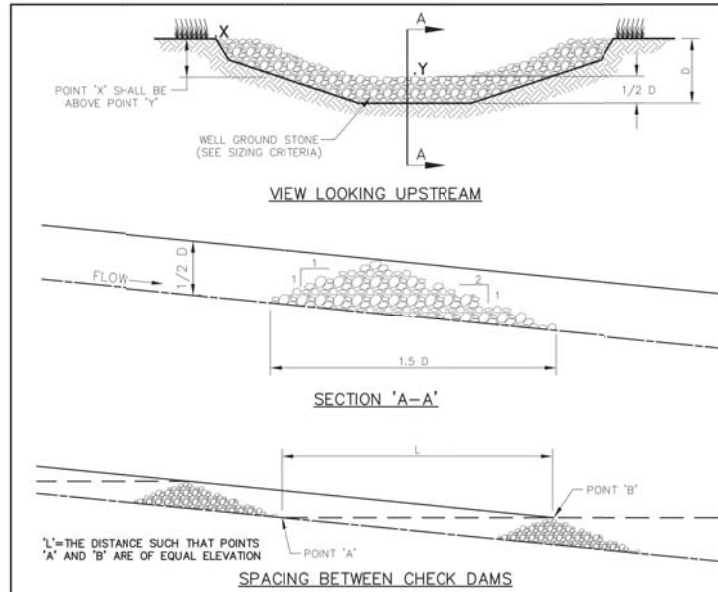
Addison! PUBLIC WORKS DEPARTMENT	SILT FENCE DETAIL	STANDARD CONSTRUCTION DETAILS EROSION CONTROL		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: 50-EC02

Addison! PUBLIC WORKS DEPARTMENT	TEMPORARY STONE CONSTRUCTION ENTRANCE/EXIT	STANDARD CONSTRUCTION DETAILS EROSION CONTROL		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: 50-EC03



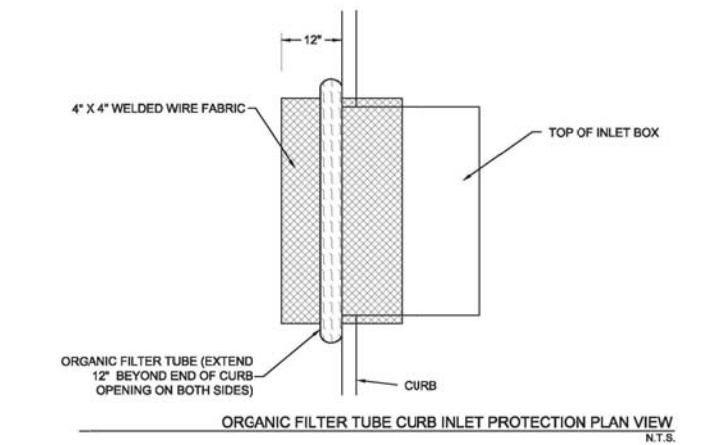
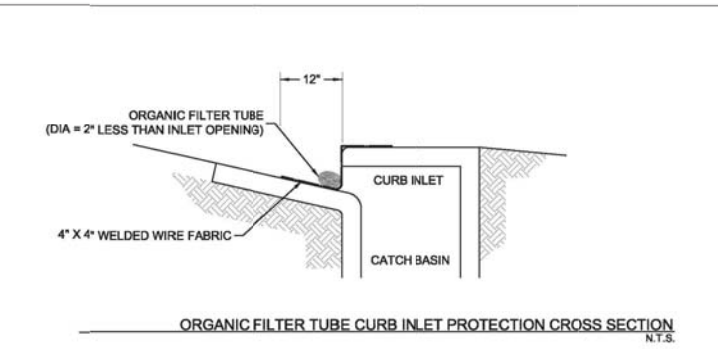
**SPECIFIC APPLICATION**  
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPE NO GREATER THAN 5%) WHERE THE INLET SHEET OR OVER-LAND FLOWS (NOT TO EXCEED 1 C.F.S.) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS SUCH AS IN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

Addison! PUBLIC WORKS DEPARTMENT	GRATE AND WYE INLET PROTECTION	STANDARD CONSTRUCTION DETAILS EROSION CONTROL		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: 50-EC04



- 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.

Addison! PUBLIC WORKS DEPARTMENT	ROCK CHECK DAM	STANDARD CONSTRUCTION DETAILS EROSION CONTROL		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: 50-EC05



NOTE: THIS CONTROL WILL DECREASE THE CAPACITY OF THE INLET. IT SHALL ONLY BE USED WHEN AN ENGINEER HAS DETERMINED THERE IS ADEQUATE STORAGE OR POSITIVE OVERFLOW.

Addison! PUBLIC WORKS DEPARTMENT	ORGANIC FILTER TUBE CURB INLET PROTECTION	STANDARD CONSTRUCTION DETAILS EROSION CONTROL		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: 50-EC06

**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



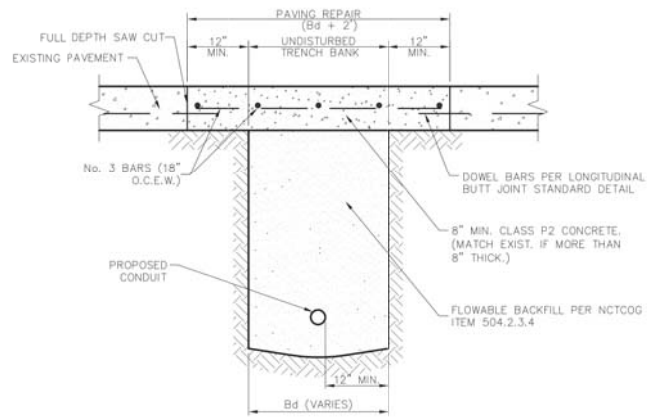
**ADDISON, TEXAS  
PUBLIC WORKS &  
ENGINEERING SERVICES**

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

**STANDARD DETAILS  
EROSION CONTROL**

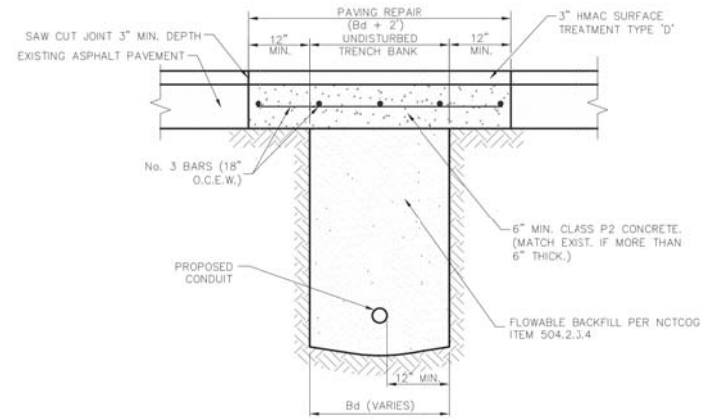
**DANNENBAUM**  
ENGINEERING COMPANY - DALLAS, LLC  
T.B.P.E. FIRM REGISTRATION #8996  
3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

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



- 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.

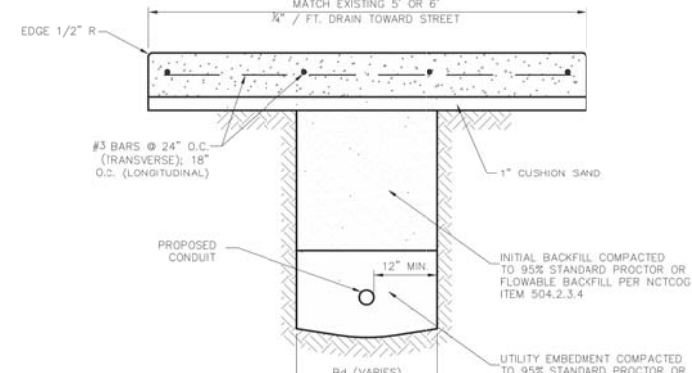
<b>Addison!</b> PUBLIC WORKS DEPARTMENT	UTILITY INSTALLATION BENEATH CONCRETE ROAD SURFACE	STANDARD CONSTRUCTION DETAILS UTILITIES TRENCHLINE & STREET RESTORATION		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: SD-103



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

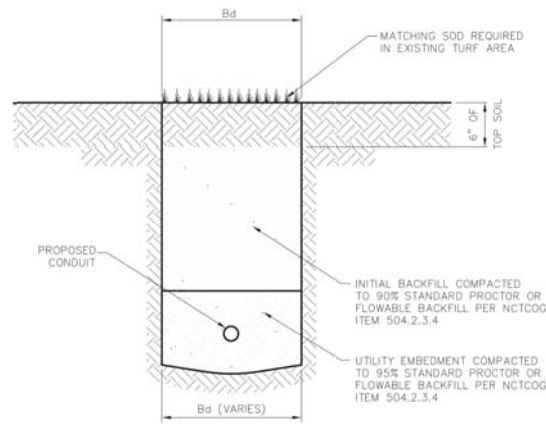
**UTILITY INSTALLATION BENEATH  
ASPHALT ROAD SURFACE**  
NTS

<b>Addison!</b> PUBLIC WORKS DEPARTMENT	UTILITY INSTALLATION BENEATH ASPHALT ROAD SURFACE	STANDARD CONSTRUCTION DETAILS UTILITIES TRENCHLINE & STREET RESTORATION		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: SD-102



- 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.

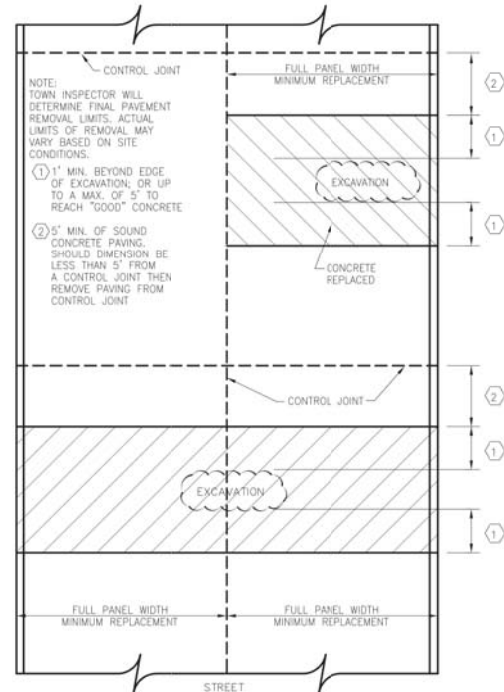
<b>Addison!</b> PUBLIC WORKS DEPARTMENT	UTILITY INSTALLATION BENEATH SIDEWALK	STANDARD CONSTRUCTION DETAILS UTILITIES TRENCHLINE & STREET RESTORATION		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: SD-101



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

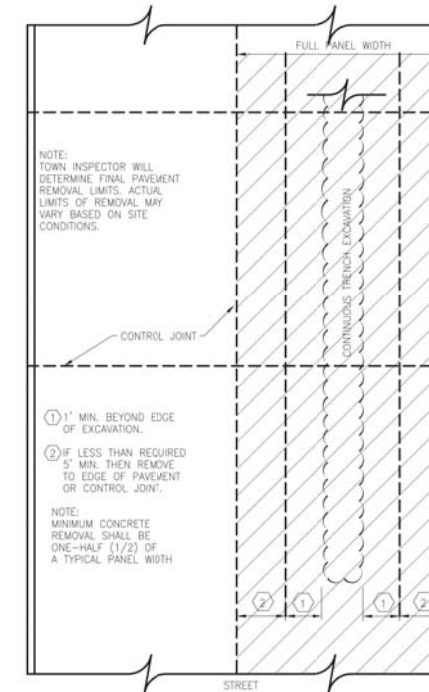
**UTILITY INSTALLATION WITHIN  
TURF AREAS**  
NTS

<b>Addison!</b> PUBLIC WORKS DEPARTMENT	UTILITY INSTALLATION WITHIN TURF AREAS	STANDARD CONSTRUCTION DETAILS UTILITIES TRENCHLINE & STREET RESTORATION		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: SD-104



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

<b>Addison!</b> PUBLIC WORKS DEPARTMENT	STREET CUT REPAIRS EXAMPLE 1	STANDARD CONSTRUCTION DETAILS UTILITIES TRENCHLINE & STREET RESTORATION		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: SD-105



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

<b>Addison!</b> PUBLIC WORKS DEPARTMENT	STREET CUT REPAIRS EXAMPLE 2	STANDARD CONSTRUCTION DETAILS UTILITIES TRENCHLINE & STREET RESTORATION		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: SD-106

**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

REV. NO.	DESCRIPTION	CHK. BY	DATE



**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

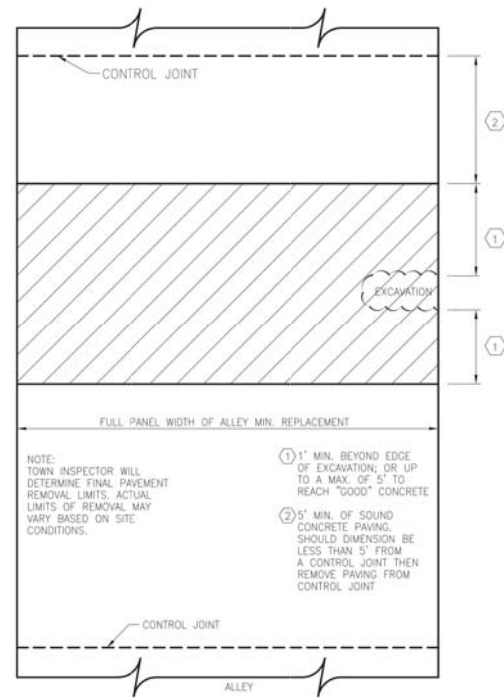
DESIGNED BY: WBH DATE: 1/2/2020

DRAWN BY: CMR PROJECT NO: 513301

CHECKED BY: DEG DRAWING SCALE: NTS

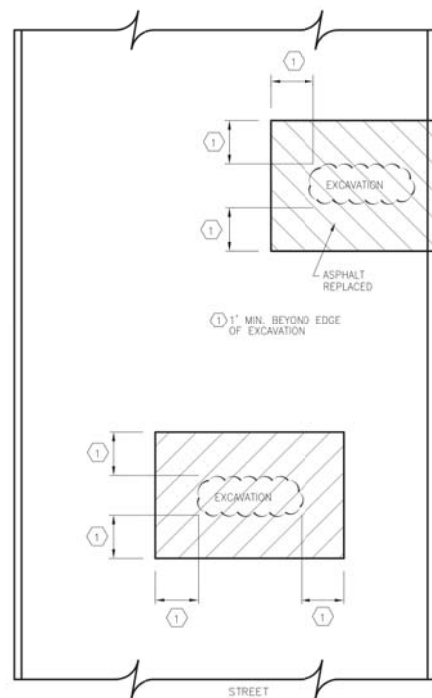
FILE: DETAILS\_PAVE.dwg

SHEET NO: 31



TYPICAL CONCRETE ALLEY REMOVAL/REPLACEMENT  
EXAMPLE 3

 PUBLIC WORKS DEPARTMENT	STREET CUT REPAIRS EXAMPLE 3	STANDARD CONSTRUCTION DETAILS UTILITIES TRENCHLINE & STREET RESTORATION		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: SD-107



TYPICAL ASPHALT STREET REMOVAL/REPLACEMENT  
EXAMPLE 4

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

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

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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 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

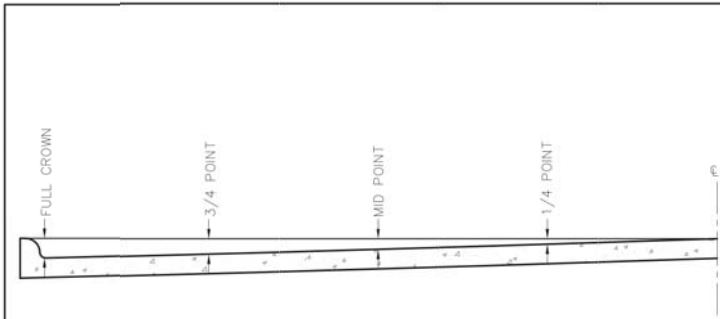
DESIGNED BY: WBH	DATE: 1/2/2020
DRAWN BY: CMR	PROJECT NO: 513301
CHECKED BY: DEG	DRAWING SCALE: NTS

FILE: DETAILS\_PAVE.dwg SHEET NO: 32

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 8" 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%.
- ALLEYS AND DRIVEWAYS
  - 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.

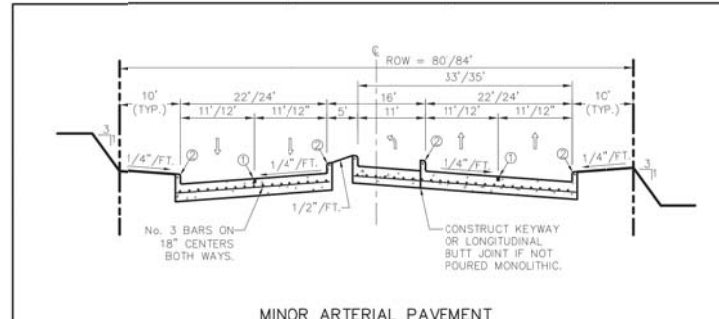


SLIP-FORM PAVEMENT MUST MEET CROWN GRADES AT GUTTERS, AT MID-POINTS AND CENTERLINE. WIDTHS OF PAVEMENT ARE FACE TO FACE.

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"

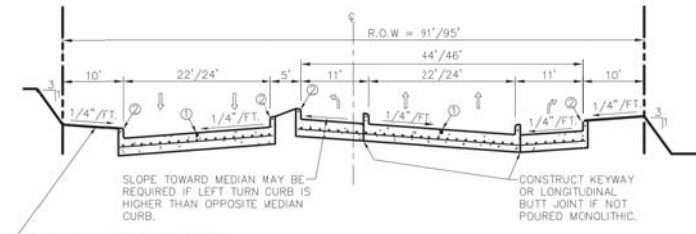
TABLE OF CROWN HEIGHTS AND ORDINATES FOR VARIOUS PARABOLIC SECTIONS

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.

Addison! PUBLIC WORKS DEPARTMENT

PAVING GENERAL NOTES

STANDARD CONSTRUCTION DETAILS PAVING

DATE: AUGUST, 2010 REV. DATE: SHEET: SD-P18

Addison! PUBLIC WORKS DEPARTMENT

PARABOLIC PAVEMENT CROWN

STANDARD CONSTRUCTION DETAILS PAVING

DATE: AUGUST, 2010 REV. DATE: SHEET: SD-P18

Addison! PUBLIC WORKS DEPARTMENT

MINOR ARTERIAL PAVEMENT

STANDARD CONSTRUCTION DETAILS PAVING

DATE: AUGUST, 2010 REV. DATE: SHEET: SD-P18

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

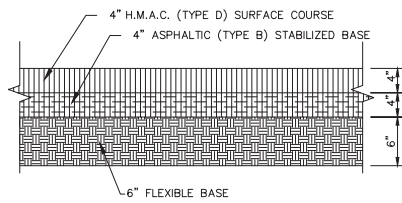
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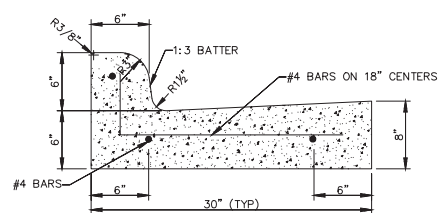
WARNING! UNDERGROUND UTILITIES IN AREA OF CONSTRUCTION. CONTACT THE FOLLOWING AT LEAST 48 HOURS PRIOR TO EXCAVATION IN THIS AREA.

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

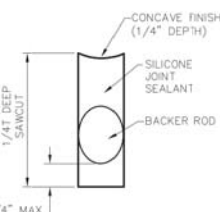
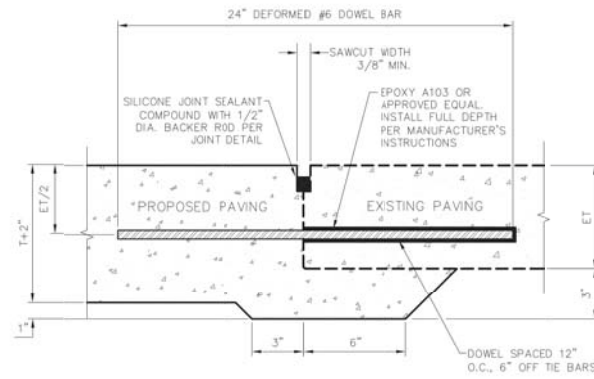


ASPHALT PAVING CROSS SECTION

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

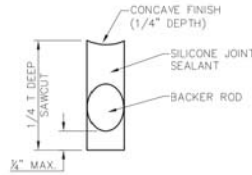
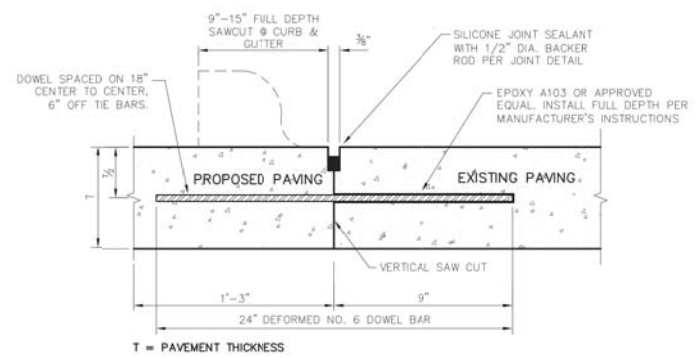


JOINT DETAIL

PAVEMENT REPAIR HEADER

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



JOINT DETAIL

LONGITUDINAL BUTT JOINT

- 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.

Addison! PUBLIC WORKS DEPARTMENT

PAVING GENERAL NOTES

STANDARD CONSTRUCTION DETAILS PAVING

DATE: AUGUST, 2010 REV. DATE: SHEET: SD-P18

Addison! PUBLIC WORKS DEPARTMENT

PAVEMENT REPAIR HEADER

STANDARD CONSTRUCTION DETAILS PAVING

DATE: AUGUST, 2010 REV. DATE: SHEET: SD-P18

Addison! PUBLIC WORKS DEPARTMENT

LONGITUDINAL BUTT JOINT

STANDARD CONSTRUCTION DETAILS PAVING

DATE: AUGUST, 2010 REV. DATE: SHEET: SD-P18

REV. NO.	DESCRIPTION	CHK. BY	DATE



ADDISON, TEXAS  
PUBLIC WORKS &  
ENGINEERING SERVICES

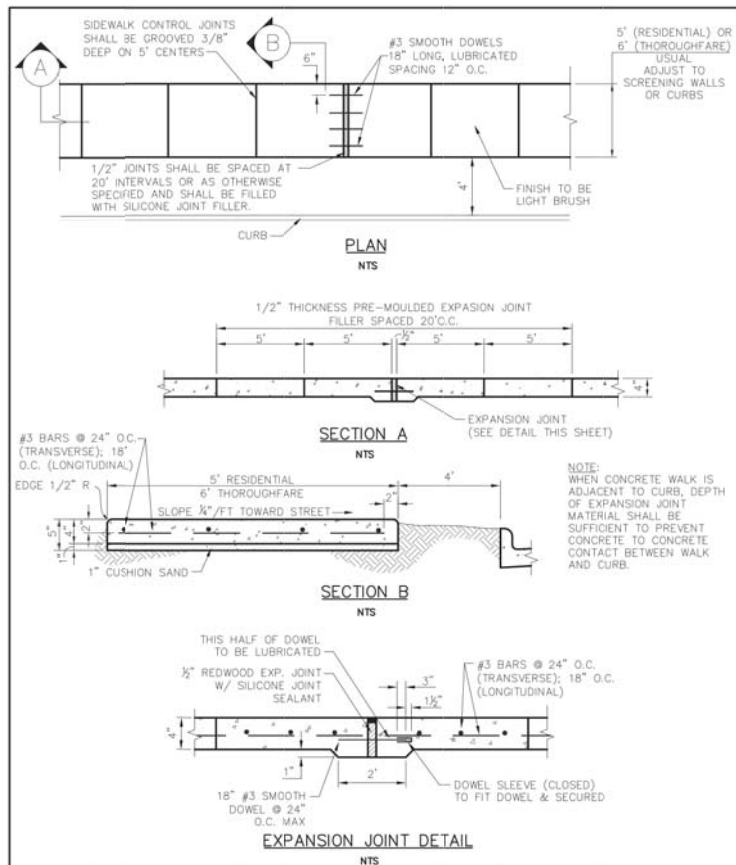
SANITARY SEWER RE-ROUTE TO MIDWAY ROAD  
PROJECT NO. 513301

STANDARD DETAILS PAVING  
(1 OF 2)

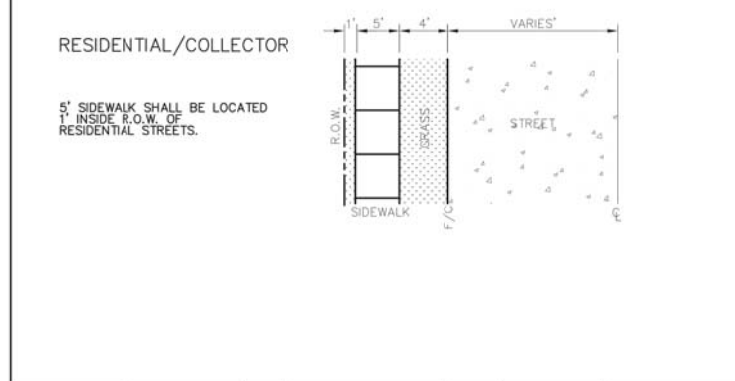
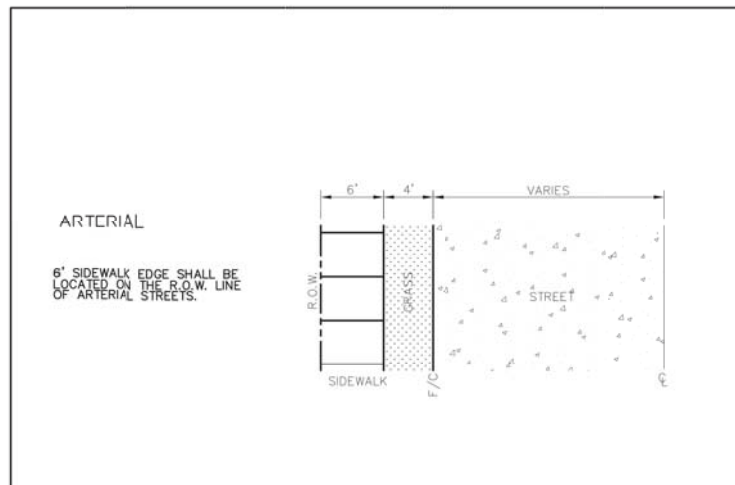
**DANNENBAUM**  
ENGINEERING COMPANY - DALLAS, LLC  
T.B.P.E. FIRM REGISTRATION #8996  
3030 LBJ FWY #910, DALLAS, TX 75234 (972) 239-2002

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

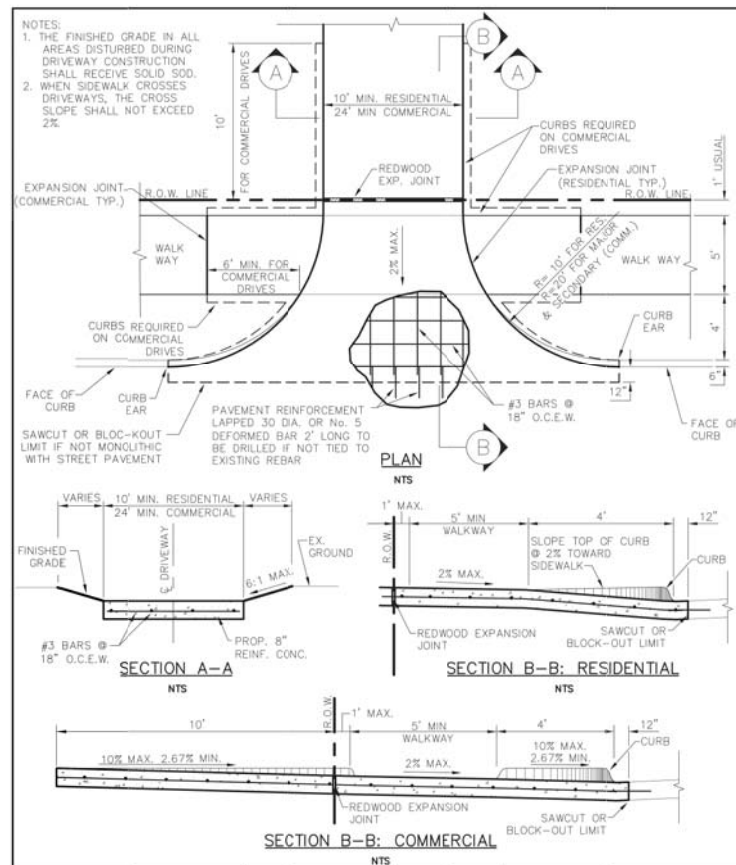
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 PUBLIC WORKS DEPARTMENT	CONCRETE SIDEWALK	STANDARD CONSTRUCTION DETAILS PAVING		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: 50-PPB



 PUBLIC WORKS DEPARTMENT	CONCRETE SIDEWALK CONTINUED	STANDARD CONSTRUCTION DETAILS PAVING		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: 50-PPB



 PUBLIC WORKS DEPARTMENT	DRIVEWAY RETURN DETAILS	STANDARD CONSTRUCTION DETAILS PAVING		
		DATE: AUGUST, 2010	REV. DATE: -	SHEET: 50-PPB

**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