

SANITARY SEWER GENERAL NOTES

- ALL WORK, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE TOWN OF ADDISON STANDARD SPECIFICATIONS.
- THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM DATA RECORDED BY OTHERS. CONTRACTOR SHALL VERIFY THAT NECESSARY CROSSING CLEARANCES BETWEEN EXISTING AND PROPOSED UTILITIES EXIST PRIOR TO CONSTRUCTION OF ANY SUCH CROSSING.
- CONTRACTOR SHALL COORDINATE WITH THE OWNER, ENGINEER OR HIS REPRESENTATIVE AND TOWN REPRESENTATIVE REGARDING AND DEVIATIONS FROM THESE PLANS.
- CONTRACTOR SHALL MAINTAIN ONE SET OF RECORD DRAWINGS (AS BUILT) ON SITE WHICH WILL BE SUBMITTED TO THE ENGINEER UPON COMPLETION OF THIS PROJECT. THE LOCATION OF FINAL SEWER SERVICE LOCATIONS WILL BE SHOWN.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT; ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, SEWER LATERALS, WATER SERVICE, ETC.
- THE CONTRACTOR SHALL SET UTILITIES TO PROPER LINE AND GRADE PRIOR TO THE PLACING OF PERMANENT PAVEMENT.
- SANITARY SEWER PIPE SHALL CONFORM TO TOWN SPECIFICATIONS AND SHALL BE MANUFACTURED FROM ONE OF THE FOLLOWING MATERIALS:

a. Polyvinyl/Chloride (PVC)	Diameter
ASTM D 3034	4" - 15"
SDR 35	
(SEE NOTE 13)	
- SANITARY SEWER PIPE MUST BE KEPT CLEAR OF BROKEN CONCRETE, DIRT OR ANY OTHER DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS.
- ALL SANITARY SEWER MAINS ARE TO HAVE 1-21' JOINT CENTERED ON EITHER SIDE OF WATER MAINS WHERE CROSSING OCCUR.
- CONTRACTOR SHALL TIE A 1" WIDE PIECE OF RED PLASTIC FLAGGING TO THE END OF SEWER SERVICE AND SHALL LEAVE A MINIMUM OF 36" OF FLAGGING EXPOSED AFTER BACKFILL. AFTER CURB AND PAVING IS COMPLETED, CONTRACTOR SHALL MARK THE LOCATION OF THE SEWER SERVICE ON THE CURB IN ACCORDANCE WITH THE STANDARD TOWN SPECIFICATIONS.
- THE CONTRACTOR SHALL FURNISH A MAINTENANCE BOND TO THE TOWN TO RUN 1 YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE SYSTEM BY THE TOWN OF ADDISON.
- ALL SANITARY SEWER LATERALS SHALL BE SIZED AND LOCATED AS SHOWN.
- ALL SANITARY SEWER LINES IN EXCESS OF 10 FEET DEPTH WILL BE SDR 26.
- ALL MANHOLES WILL BE INSTALLED WITH INSERTS.

WATER LINE GENERAL NOTES

- ALL WORK AND MATERIALS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR TOWN OF ADDISON.
- BASE BID - ALL 6", 8", 10" AND 12" WATER MAINS SHALL BE PVC AWWA C900, DR 18, CLASS 150 WATER PIPE. FOR PVC SERVICE TAPPING SADDLES SHALL BE USED.
- ALL WATER MAINS SHALL HAVE MINIMUM COVER AS FOLLOWS: 6", 8", 10", AND 12": 48" BELOW FINISHED PAVEMENT GRADE, OR 60" BELOW EXISTING OR FINISHED GRADE IN UNPAVED AREAS, OR AS REQUIRED TO CLEAR OTHER UTILITIES.
- EXTEND WATER DEADHEADS AND SANITARY SEWER LATERALS BEYOND PROPOSED CURB AS SHOWN ON THE WATER PLAN.
- FIRE HYDRANTS TO BE TOWN OF ADDISON APPROVED (MUELLER CENTURION)
- VALVES TO BE TOWN OF ADDISON APPROVED.
- THE WATER METER BOX SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AFTER THE PAVING CONTRACTOR HAS COMPLETED THE FINE GRADING BEHIND THE BACK OF THE CURB. EACH SERVICE LOCATION WILL BE MARKED ON THE PAVEMENT OR CURB, WITH A BLUE DOT BY THE UTILITY CONTRACTOR AND TIED TO PROPERTY CORNERS ON THE "RECORD DRAWINGS."
- THE CONTRACTOR SHALL FURNISH A MAINTENANCE BOND TO THE TOWN TO RUN ONE (1) YEAR FROM THE DATE OF ACCEPTANCE OF THE SYSTEM BY THE TOWN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING "RECORD DRAWING" PLANS TO THE ENGINEER SHOWING THE LOCATION OF WATER SERVICES AND VALVES.
- FIRE HYDRANTS SHALL BE PAINTED AS PER TOWN OF ADDISON STANDARDS AND SPECIFICATIONS AND LOCATED IN A PROTECTED AREA WITH 6" CURB OR BOLLARDS.
- STEAMER NOZZLES ON FIRE HYDRANTS SHALL BE 18" ABOVE THE TOP OF THE CURB ON FINISHED GRADE, AND SHALL FACE THE CENTER OF THE FIRE LANE OR STREET. FIRE HYDRANTS SHALL USUALLY BE LOCATED FOUR (4) FEET, BUT NOT LESS THAN TWO (2) FEET NOR MORE THAN SIX (6) FEET, BEHIND THE CURB.
- ALL WATER LINES SHALL BE HYDROSTATICALLY TESTED PER TOWN OF ADDISON STANDARDS AND SPECIFICATIONS.
- ALL WATER LINES SHALL BE STERILIZED PER TOWN OF ADDISON STANDARDS AND SPECIFICATIONS.
- ALL METER BOXES SHALL BE LOCATED IN NON-TRAFFIC AREAS AND PROTECTED BY 6" CURB OR BOLLARDS.
- THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THAT NECESSARY CLEARANCES BETWEEN EXISTING AND PROPOSED UTILITIES EXIST PRIOR TO THE CONSTRUCTION OF ANY SUCH CROSSING. IT IS THE CONTRACTORS RESPONSIBILITY TO INVESTIGATE AS TO WHETHER ADDITIONAL FACILITIES EXIST.
- UTILITY TRENCHES SHALL BE BACKFILLED WITH MATERIAL PER TOWN OF ADDISON SPECIFICATIONS (95% STANDARD PROCTOR DENSITY).
- ANCHOR FITTINGS SHALL BE USED TO ATTACH FIRE HYDRANTS.
- ALL MANHOLES, CLEANOUTS, VALVE BOXES, FIRE HYDRANTS, ETC., MUST BE ADJUSTED TO PROPER LINE AND GRADE BY CONTRACTOR AFTER PLACEMENT OR PERMANENT PAVING.
- A NO. 12 PLASTIC COATED WIRE SHALL BE PLACED IN THE TRENCH OVER ALL WATER LINES. THE WIRE SHALL BE TIED TO ALL VALVES AND FIRE HYDRANTS AND ATTACHED DIRECTLY TO THE TOP OF PIPE AND EXTENDED TO SIX INCHES ABOVE FINISHED GRADE ALONG THE OUTSIDE OF ALL VALVE STACKS AND FIRE HYDRANTS.
- ALL LOCATION DIMENSIONS SHOWN ARE CENTERLINE OF PIPE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH SAFETY DESIGN AND DETAILS AS REQUIRED, AND SHALL SUBMIT ENGINEERED DESIGN.

PAVING GENERAL NOTES

- CONCRETE PAVING FOR TRUCK DOCKS, DUMPSTERS AND CURB & GUTTERS SHALL BE OF THE THICKNESS SHOWN ON THE PLAN AND BE 3,000 PSI CONCRETE AT 28 DAYS WITH A MIXTURE THAT IS MINIMUM OF 5.5 SACKS PER CUBIC YARD AND HAVING A ONE INCH TO FOUR INCH SLUMP AND REINFORCED WITH #3 BARS @ 18" O.C.E.W. REINFORCING SHALL BE SUPPORTED BY CHAIRS AND SPACED AT 16 S.F. MAXIMUM INTERVAL.
- SUBGRADE FOR CONCRETE PAVEMENT SHALL BE SCARIFIED TO A DEPTH OF SIX INCHES (6") AND RECOMPACTED TO 95% STANDARD PROCTOR DENSITY AT 3% ABOVE OPTIMUM MOISTURE CONTENT.
- CONCRETE TO BE FLOAT FINISHED AND CURED FOR A MINIMUM OF 72 HOURS.
- SEALANT MATERIAL TO BE 0A55 ASPHALT OR A RUBBER BASED COMPOUND. SPECIFICATIONS TO BE SUBMITTED TO THE ENGINEER PRIOR TO INSTALLATION.
- HOT MIX ASPHALT CONCRETE (HMAC) SHALL BE TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) ITEM 340, TYPE "C" OR TYPE "A" AS SHOWN.
- SUBGRADE FOR HMAC ALTERNATE WILL BE 6" LIME STABILIZED WITH 7% LIME (31.5 LBS PER S.Y.) COMPACTED TO 100% THD 114E OVER SCARIFIED AND RECOMPACTED SUBGRADE.
- BREAKOUTS FOR REMOVAL OF EXISTING PAVEMENT AND CURBS SHALL BE MADE BY SAW CUT WHEN ADJACENT TO PROPOSED PAVING AND/OR CURBS.
- PROPOSED CONCRETE CURBS SHALL MATCH ELEVATION OF EXISTING CURB.
- FIRE LANES SHALL BE MARKED BY SIX INCH (6") WIDE LINES USING RED TRAFFIC PAINT, WITH WORDING "NO PARKING" AND "FIRE LANE" PAINTED ON THE LINES AT INTERVALS OF TWENTY-FIVE FEET (25'). THE LETTERING WILL BE FOUR INCHES (4") HIGH WITH A ONE INCH (1") WIDE STROKE PAINTED WITH WHITE TRAFFIC PAINT.
- ALL PARKING SPACES SHOWN ON PROPOSED CONSTRUCTION SHALL BE MARKED WITH 4 INCH (4") WIDE YELLOW PAINTED PAVEMENT STRIPING. PAINT SHALL BE SHERWIN WILLIAMS SERIES B-29Y2 OR APPROVED ALTERNATE.
- CONTRACTOR SHALL FURNISH ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS, HANDICAPPED PARKING SYMBOLS AND MISC. STRIPING WITHIN PARKING LOT AND AROUND BUILDING AS SHOWN ON THE PLANS. SEE ARCHITECTURAL SITE PLAN FOR VERTICAL HANDICAP SIGNAGE.
- ALL HANDICAP RAMPING, STRIPING AND PAVEMENT MARKINGS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT OF 1990.
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH TOWN OF ADDISON STANDARD SPECIFICATIONS AND/OR SPECIFICATIONS ESTABLISHED BY THIS PROJECT. THE MOST STRINGENT SHALL APPLY.
- CONTROL JOINTS FOR CONCRETE PAVEMENT WILL BE PLACED AT 15' O.C.E.W. LEVEL UP SAND COURSE UNDER CONC. PAVEMENT IS NOT ALLOWED.
- CONTRACTOR WILL PROVIDE A TWO (2) YEAR UNCONDITIONAL MAINTENANCE FREE WARRANTY ON PORTLAND CEMENT CONCRETE PAVEMENT AND HOT MIX ASPHALT CONCRETE PAVEMENT.
- ALL CITY FACILITIES (TURN LANES, APPROACHES, STRUCTURES & SIDEWALKS) TO BE 3,600 P.S.I. CONC. @ 28 DAYS.

PROJECT GENERAL NOTES

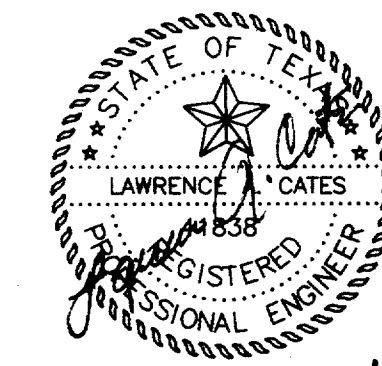
- ALL DIMENSIONS ARE FACE OF CURB TO FACE OF CURB UNLESS NOTED OTHERWISE.
- ALL CURBS ARE EITHER 6" INTEGRAL WITH CONCRETE PAVEMENT OR 6" MONOLITHIC WITH ASPHALT PAVEMENT.
- REFERENCE ARCHITECTURAL SITE PLAN OF LAYOUT FOR HANDICAP PARKING AND SIGNAGE.
- PRIOR TO FINAL ACCEPTANCE BY THE TOWN OF ADDISON:
 - A TEXAS REGISTERED PROFESSIONAL ENGINEER SHALL CERTIFY THAT THE PORTION OF THE PROJECT BEING DEDICATED TO ADDISON WAS CONSTRUCTED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS APPROVED BY THE TOWN OF ADDISON.
 - A ONE (1) YEAR MAINTENANCE BOND IS REQUIRED FOR THE CITY'S PORTION OF THE INFRASTRUCTURE.
 - CONTRACTOR SHALL DEMONSTRATE THAT THE WATER AND SANITARY SEWER SYSTEMS MEET THE PROPER PRESSURE, BACTERIA AND MANDREL TESTS. IN ADDITION, THE OWNER SHALL PROVIDE A VHS FORMAT VIDEO TAPE OF THE SANITARY SEWER.
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES TO LOCATE EXISTING FACILITIES. THESE INCLUDE BUT MAY NOT BE LIMITED TO THE FOLLOWING:
 - TOWN OF ADDISON
 - LONE STAR GAS
 - SOUTHWESTERN BELL
 - STORER CABLE
 - PLANNED CABLE SYSTEMS
 - TU ELECTRIC
- PRIOR TO BEGINNING CONSTRUCTION, THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONVENE A PRE-CONSTRUCTION CONFERENCE BETWEEN THE TOWN OF ADDISON, CONSULTING ENGINEER, CONTRACTOR(S), UTILITY COMPANIES AND ANY OTHER AFFECTED PARTIES. NOTIFY BRUCE ELLIS AT 450-2847 AT LEAST 48 HOURS PRIOR TO THE TIME OF THE CONFERENCE AND 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.
- ANY EXISTING PAVEMENT, CURB(S) AND/OR SIDEWALKS DAMAGED OR REMOVED WILL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.
- LOT PINS SHALL BE IN PLACE DURING CONSTRUCTION AND PRIOR TO FINAL ACCEPTANCE. CONCRETE MONUMENTS SHALL BE PLACED ON ALL BOUNDARY CORNERS, BLOCK CORNERS, CURVE POINTS AND ANGLE POINTS IN PUBLIC RIGHT-OF-WAY. CONCRETE MONUMENTS SHALL BE SIX (6) INCHES IN DIAMETER AND TWENTY-FOUR (24) INCHES LONG. A COPPER PIN ONE-FOURTH INCH IN DIAMETER EMBEDDED AT LEAST THREE (3) INCHES IN THE MONUMENT AT THE EXACT INTERSECTION POINT OF THE MONUMENT. THE MONUMENTS SHALL BE SET AT SUCH AN ELEVATION THAT AFTER CONSTRUCTION, THE TOP OF THE MONUMENT WILL NOT BE LESS THAN TWELVE (12) INCHES BELOW THE GROUND SURFACE.
- CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT BY THE TOWN OF ADDISON FOR WORKING WITHIN THE PUBLIC RIGHT-OF-WAY EASEMENTS.
- DURING CONSTRUCTION, THE OWNER SHALL PROVIDE A QUALIFIED GEOTECHNICAL LAB TO PERFORM MATERIALS TESTING DURING THE CONSTRUCTION, AT THE REQUEST OF THE TOWN OF ADDISON.
- THE CONTRACTOR SHALL SUBMIT MATERIAL SHEETS TO THE TOWN OF ADDISON FOR APPROVAL PRIOR TO INCORPORATING MATERIALS INTO THE JOB.

AS-BUILTS

I CERTIFY THIS PROJECT WAS CONSTRUCTED IN GENERAL CONFORMANCE WITH THESE CONSTRUCTION PLANS AND WILL FUNCTION AS DESIGNED.

[Handwritten Signature]
12/2/94

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY LAWRENCE A. CATES, P.E. 41838 ON 01/21/94



[Handwritten Signature]
12/8/1994

REV	DATE	REMARKS				
GENERAL NOTES						
COMP USA						
ADDISON TOWN CENTER						
TOWN OF ADDISON, TEXAS						
LAWRENCE A. CATES & ASSOC.		CONSULTING ENGINEERS DALLAS, TEXAS				
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
LAC	LAC	1/21/94	1"=1'	D.P.	93059 GENOTES.DWG	C-8