

**GENERAL NOTES:**

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE TOWN OF ADDISON STANDARDS AND SPECIFICATIONS AND THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENT (NCTCOG) STANDARDS AND SPECIFICATIONS, EXCEPT AS NOTED, IN THE EVENT OF A CONFLICT, THE TOWN OF ADDISON STANDARDS AND SPECIFICATIONS SHALL GOVERN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PUBLIC SAFETY DURING CONSTRUCTION AND WILL PROVIDE THE NECESSARY TRAFFIC BARRICADES AND WARNING SIGNAGE TO PROTECT THE CONSTRUCTION SITE. ALL BARRICADES, WARNING SIGNS, LIGHTS, DEVICES, ETC. FOR THE GUIDANCE AND PROTECTION OF TRAFFIC AND PEDESTRIANS MUST CONFORM TO THE 2006 TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AS CURRENTLY AMENDED, BY THE TEXAS DEPARTMENT OF TRANSPORTATION.
- NO PERSON SHALL OPEN, TURN OFF, INTERFERE WITH, ATTACH ANY PIPE OR HOSE TO OR TAP ANY WATER MAIN BELONGING TO THE TOWN UNLESS DULY AUTHORIZED TO DO SO BY THE TOWN OF ADDISON PUBLIC WORKS DEPARTMENT. ARRANGEMENTS FOR CONSTRUCTION WATER SHALL BE MADE THROUGH THE TOWN OF ADDISON PUBLIC WORKS DEPARTMENT.
- CONTRACTOR SHALL MAINTAIN ADEQUATE SANITARY FACILITIES FOR USE BY WORKERS THROUGHOUT CONSTRUCTION.
- NO TRAFFIC SIGNS ARE TO BE RELOCATED OR REMOVED WITHOUT PRIOR APPROVAL OF THE TOWN OF ADDISON PUBLIC WORKS DEPARTMENT.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING FACILITIES RESULTING FROM CONSTRUCTION WORK SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THESE PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENT OR REPRESENTATIVES IN PERFORMANCE OF THE WORK. THE SEAL OF GRANTHAM & ASSOCIATES, INC. REGISTERED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREAFTER BE INCORPORATED IN THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS, INCLUDING THE PLANS AND SPECIFICATIONS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN NEAT AND ACCURATE PLANS OF RECORD.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE SITE DRAINAGE THROUGHOUT THE DURATION OF THIS PROJECT.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS BEFORE CONSTRUCTION BEGINS.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THAT ELECTRIC POWER AND TELEPHONE POLES ARE NOT DISTURBED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL KEEP EXCAVATED TRENCHES FREE OF GROUNDWATER DURING CONSTRUCTION. IF NECESSARY, THE CONTRACTOR SHALL UTILIZE DEWATERING IN ORDER TO CONTROL GROUNDWATER DURING CONSTRUCTION SUCH THAT IT DOES NOT AFFECT HIS CONSTRUCTION WORK. (NO SEPARATE PAY ITEM)
- EXISTING FACILITIES ARE SHOWN IN APPROXIMATE LOCATIONS PER INFORMATION AND RECORDS AVAILABLE. CONTRACTOR SHALL UNCOVER AND VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION.
- ALL DRIVEWAY AND PARKING SPOT ELEVATIONS ARE TO TOP OF CURB UNLESS OTHERWISE NOTED.
- REFER TO APPROVED LANDSCAPE ARCHITECTURAL PLANS FOR GRADES ON WALKS, BERMS, AND ALL OTHER LANDSCAPED AREAS.
- ALL EXCESS EXCAVATED MATERIAL AND STRIPPINGS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PROPER MANNER OFF THE PROJECT SITE.
- THE TOP 3 INCHES OF SOIL SHALL BE STRIPPED AND STOCKPILED ON THE SITE AND SPREAD OVER THE SITE AS TOP SOIL DURING FINAL GRADING.
- ALL FINISHED GRADES SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS. FINAL GRADES WITHIN 10 FEET OF STRUCTURES SHOULD SLOPE AWAY FROM STRUCTURES AT GRADE THAT MEETS THE GEOTECHNICAL REPORT RECOMMENDATIONS TO BE FURNISHED TO THE CONTRACTOR BY THE OWNER.
- ALL EXCAVATION SHALL BE UNCLASSIFIED EXCAVATION FOR PAYMENT PURPOSES.
- TRANSVERSE CONTRACTION JOINTS SHALL BE SPACED NO MORE THAN 12 FEET APART ON ALL PAVING.
- THE CONTRACTOR SHALL NOT PLACE FILL OR WASTE MATERIAL ON ANY PRIVATE PROPERTY WITHOUT PRIOR WRITTEN AGREEMENT WITH THE PROPERTY OWNER. IF THE CONTRACTOR PLACES EXCESS MATERIAL IN AREAS WITHOUT WRITTEN PERMISSION, HE WILL BE RESPONSIBLE FOR ALL DAMAGE RESULTING FROM SUCH FILL AND HE SHALL REMOVE THE MATERIAL AT HIS OWN EXPENSE.
- ALL REINFORCING STEEL AND DOWEL BARS IN PAVEMENT SHALL BE GRADE 60 AND SUPPORTED AND MAINTAINED AT THE CORRECT CLEARANCES BY THE USE OF BAR CHAIRS OR OTHER APPROVED SUPPORT.
- ALL PAVING TO BE REMOVED SHALL BE SAWCUT (FULL DEPTH) TO A NEAT LINE AND THEN REMOVED CAREFULLY TO AVOID DAMAGE TO REMAINING EDGE.

**UTILITY CONTACTS:**

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OR HER OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL MAINTAIN THE UTILITY LOCATION MARKINGS UNTIL THEY ARE NO LONGER NECESSARY.

CONTRACTOR SHALL CONTACT 1-800-DIG-TESS (344-8377) AND TOWN OF ADDISON PUBLIC WORKS DEPARTMENT 972-450-2871 PRIOR TO ANY EXCAVATION.

**CONSTRUCTION NOTES:**

- THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES, METER BOXES, MANHOLES, AND OTHER UTILITY STRUCTURES TO GRADE AS NEEDED PRIOR TO AND AFTER CONSTRUCTION HAS BEEN COMPLETED.
- EROSION CONTROL SHALL START WITH INITIAL CONSTRUCTION AND BE PRACTICED THROUGHOUT THE PROJECT.
- CONTRACTOR SHALL KEEP PROJECT WORK SITE CLEAN AND ORDERLY. IT WILL BE UNACCEPTABLE TO ALLOW TRASH TO BLOW ONTO ADJACENT PROPERTIES. STRICT ATTENTION WILL BE PAID TO THIS ITEM. IF CONTRACTOR FAILS TO ADHERE TO THIS STIPULATION, OWNER OR THE TOWN OF ADDISON RESERVES THE RIGHT TO STOP WORK UNTIL TRASH IS CLEANED UP. THIS STOPPAGE OF WORK WILL NOT EXTEND THE ORIGINAL CONTRACT TIME.

**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:**  
A. CONCRETE STRENGTH SHALL BE AS SHOWN IN ITEM 7 (NCTCOG LATEST EDITION).  
B. ALL CURBS SHALL BE INTEGRAL WITH PAVEMENT AND SHALL BE OF THE SAME STRENGTH AS CONCRETE PAVEMENT.  
C. DETAIL AND ARRANGEMENT OF PAVEMENT JOINTS, ALL TYPES, SHALL BE AS SHOWN ON THE TOWN STANDARD CONSTRUCTION DETAILS.  
D. BAR LAPS SHALL BE THIRTY DIAMETERS.  
E. REINFORCING STEEL SHALL BE #3 REBAR (3/8") ON 18" CENTERS FOR 8" OR LESS. #4 FOR 10" OR ABOVE
- SUBGRADE:**  
SUBGRADE UNDER ALL PAVEMENT SHALL BE 6" THICK AND SHALL BE STABILIZED WITH AT LEAST 30 LBS. PER SQ. YD. HYDRATED LIME, COMPACTED TO A DENSITY NOT LESS THAN 95 PERCENT. LABORATORY TESTS MUST BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR APPROVAL TO DETERMINE AMOUNT OF LIME REQUIRED. LABORATORY TEST MAY BE WAIVED PROVIDED AT LEAST 36 LBS. OF LIME PER SQ. YD. IS USED. SEE NCTCOG ITEM 301.2 "LIME TREATMENT". FLEXIBLE BASE (CRUSHED STONE/CONCRETE) PER NCTCOG ITEM 301.5 MAY BE SUBSTITUTED FOR LIME TREATMENT WITH THE APPROVAL OF THE TOWN ENGINEER.
- REBAR SHALL BE SUPPORTED BY BAR CHAIRS OR OTHER DEVICES APPROVED BY TOWN ENGINEER.
- NO TRAFFIC ON FINISHED SUBGRADE SHALL BE PERMITTED AFTER REINFORCING STEEL IS INSTALLED ABOVE SUBGRADE. NO TRAFFIC SHALL BE PERMITTED BEFORE OR DURING THE PLACING OF CONCRETE.
- CROSS SLOPE OF STRAIGHT CROWN STREETS SHALL BE 1/4" PER FOOT UNLESS APPROVED BY THE TOWN ENGINEER.
- PAVEMENT THICKNESS AND STRENGTHS SHALL BE AS FOLLOWS:  
MAJOR ARTERIAL - 10" CLASS "P1" OR "P2."  
MINOR ARTERIAL - 8" CLASS "P1" OR "P2."  
COMMERCIAL/INDUSTRIAL COLLECTOR - 8" CLASS "P1" OR "P2."  
RESIDENTIAL COLLECTOR - 8" CLASS "P1" OR "P2."  
RESIDENTIAL LOCAL - 8" CLASS "P1" OR "P2."  
SIDEWALK AND BFR'S-4"-CLASS "A"  
DRIVE APPROACH-8"-CLASS "P2"  
ALLEY-8" 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  
A. 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.  
B. SPACING AND CONSTRUCTION OF JOINTS SHALL CONFORM TO PARABOLIC STREET PAVEMENT.

**SANITARY SEWER NOTES**

- ALL WASTEWATER PIPE SHALL BE P.V.C. SDR-35 OR SDR-26 PIPE. OTHER PIPES SHALL BE SUBJECT TO APPROVAL BY THE TOWN ENGINEER.
- WASTEWATER LATERALS SHALL INCLUDE 4" STANDARD WYE, 45° BEND, PIPE AND TWO CLEANOUTS AS PER DETAIL INSTALLED 10 FEET DOWNSTREAM FROM THE WATER MAIN SERVICE ON EACH LOT, UNLESS OTHERWISE INDICATED ON THE PLANS. 6" LATERALS REQUIRE MANHOLE AT MAIN SEWER PIPE.
- WASTEWATER PIPE JOINTS SHALL CONFORM TO ASTM DESIGNATIONS FOR P.V.C. PIPE.
- UNLESS OTHERWISE NOTED, ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATION AND/OR SPECIAL PROVISIONS.
- IN THE EVENT AN ITEM IS NOT COVERED IN THE TOWN OF ADDISON SPECIFICATIONS, THE TOWN ENGINEER'S DECISION SHALL APPLY.
- DROP MANHOLE REQUIRED FOR GRADE DIFFERENCES OF 18" OR GREATER.
- TV CAMERA, MANDREL, AIR TEST AND VACUUM TEST SANITARY SEWER LINE/MANHOLE AFTER ALL UTILITIES HAVE BEEN INSTALLED.
- WASTEWATER LINE WILL BE RE-AIR TESTED AFTER PAVING AND ALL UTILITIES HAVE BEEN INSTALLED.
- TWENTY ONE (21) MONTHS INTO MAINTENANCE PERIOD, ALL WASTEWATER LINES WILL BE CAMERA INSPECTED FOR SAGS, SETTLEMENTS, SEPARATION, ETC..
- SHALLOWER PARALLEL LINE REQUIRED WHEN FLOW LINE OF WASTEWATER EXCEEDS 12 FT. DEPTH. VERTICAL DROP CONNECTIONS NOT PERMITTED.
- STEPS SHALL NOT BE INSTALLED IN MANHOLE.
- MANHOLE WALL SHALL BE CORE DRILLED FOR SEWER CONNECTIONS.
- THE INTERIOR OF ALL MANHOLES LOCATED IN A FLOOD PLAIN SHALL BE LINED WITH AN EPOXY COATING AND SHALL BE RAVEN LINING 405 OR APPROVED EQUAL, AT A MINIMUM THICKNESS OF 200 MILS.

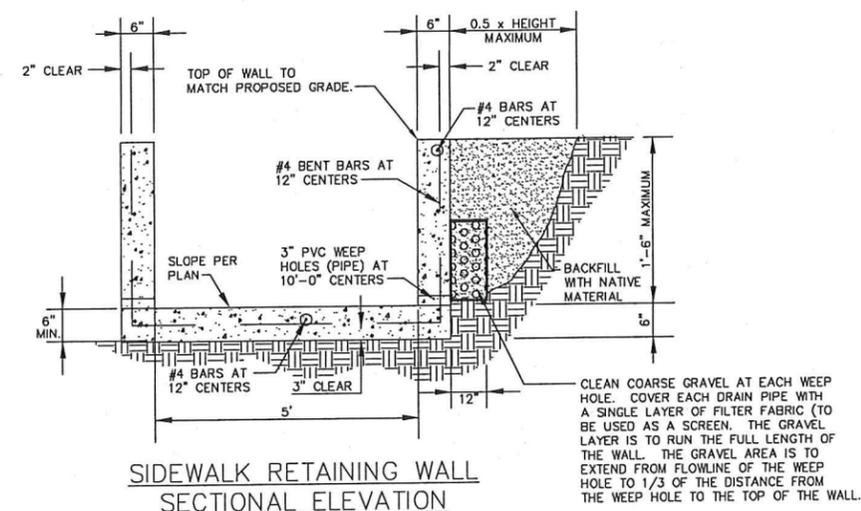
**WATER GENERAL NOTES:**

**MATERIALS**

- ALL WATER MAIN MATERIALS SHALL BE IN ACCORDANCE WITH THE TOWN OF ADDISON WATER SYSTEM REQUIREMENTS.
- ALL WATER MAINS TWELVE-INCH (12") IN DIAMETER AND SMALLER SHALL BE AWWA C900 PVC PRESSURE WITH CAST IRON O.D. OR WHEN PIPE PENETRATES METER VAULT WALLS IT SHALL BE DUCTILE IRON. PIPE JOINTS SHALL BE RUBBER RING AND INTEGRAL THICKENED BELL. ASSEMBLED WITH A FACTORY SUPPLIED LUBRICANT. WATER MAINS SHALL HAVE A MINIMUM CLASS RATING OF 150-PSI FOR DOMESTIC USE AND A MINIMUM CLASS RATING OF 200-PSI FOR FIRE LINE APPLICATIONS. JOINT MATERIAL FOR PVC SHALL CONFORM TO ASTM-F471.
- ALL FITTINGS SHALL BE DUCTILE IRON, FULL BODIED, MECHANICAL JOINT TYPE WITH RESTRAINING GLANDS AND HAVE A MINIMUM RATED WORKING PRESSURE OF 250 PSI. FITTINGS SHALL BE WRAPPED WITH 8-MIL POLY PRIOR TO BACKFILL.
- ALL VALVES AND FITTINGS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED. THRUST BLOCKING SHALL BE MINIMUM 3000 PSI CONCRETE AND BE ABLE TO WITHSTAND A MINIMUM 200 PSI PRESSURE TEST.

**CONSTRUCTION**

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF ADDISON WATER SYSTEM REQUIREMENTS.
- THE MINIMUM COVER TO THE TOP OF THE PIPE MUST VARY WITH THE VALVE STEM. IN GENERAL, THE MINIMUM COVER BELOW THE TOP OF CURB AT STREET TO BOP OF THE PIPE SHOULD BE AS FOLLOWS:  
A. LINES LARGER THAN SIXTEEN-INCH (16") SHALL HAVE A MINIMUM OF SIX FEET (6') OF COVER WHICH IS SUFFICIENT TO ALLOW WATER AND SEWER AND OTHER UTILITIES TO GO OVER THE LARGE MAIN.  
B. SIXTEEN-INCH (16") MAINS SHALL HAVE A MINIMUM COVER OF FIVE FEET (5').  
C. TWELVE-INCH (12") AND SMALLER MAINS SHALL HAVE A MINIMUM COVER OF FOUR FEET (4').
- ALL WATER MAINS SHALL BE PURGED BY THE "POLY-PIG" METHOD, UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DEPARTMENT.
- WATERLINES SHALL BE TESTED BOTH BACTERIOLOGICALLY AND HYDROSTATICALLY. WATER MAINS SHALL HYDROSTATICALLY TESTED AT 150 PSI FOR FOUR (4) HOURS. FIRE LINES SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR TWO (2) HOURS.
- ALL BLEEDER LINES SHALL BE REMOVED UPON COMPLETION OF TESTING BY REMOVING THE CORPORATION STOP AND INSTALLING A BRASS PLUG.



**SIDEWALK RETAINING WALL SECTIONAL ELEVATION**

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NO.	DATE	REVISION	APPROV.
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GRANTHAM & ASSOCIATES  
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**CONSTRUCTION PLANS FOR ALLEGRO - PHASE 2**  
**GENERAL NOTES & DETAILS**  
**HARVARD PROPERTY TRUST, LLC**

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