GENERAL CONSTRUCTION NOTES:

1. WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING ARE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE DOCUMENTS—"STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEM, WATER LINES, STORM DRAINAGE, AND STREET PAVING", "STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEM, WATER LINES, STORM DRAINAGE, AND STREET PAVING" AND THE "INFRASTRUCTURE DESIGN MANUAL" PUBLISHED BY THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING.

2. ALL UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY IN THE FIELD THE EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY TEXAS ONE CALL AT 713-223-4567/800-245-4545 AND LONE STAR ONE AT 800-669-8344 AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION.

3. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE TO EXISTING WATER, WASTEWATER, STORM WATER LINES AND TRAFFIC CONTROL DEVICES. ALL DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH THE CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING'S "STANDARD CONSTRUCTION SPECIFICATIONS" REFERENCED ABOVE, AT NO COST TO THE CITY OF HOUSTON, HARRIS COUNTY OR BY OWNER.

4. CONTRACTOR SHALL NOTIFY THE OFFICE OF CITY ENGINEER, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING AT 713-863-1450 FOR INSPECTION AT LEAST 48 HOURS PRIOR TO COMMENCING WORK.

5. EXISTING UTILITY INFORMATION SHOWN IS NOT GUARANTEED TO BE ACCURATE AND ALL INCLUSIVE. ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD BE VERIFIED BY THE CONTRACTOR IN ADVANCE OF CONSTRUCTION. ANY CONFLICT OR DISCREPANCY DISCOVERED MUST IMMEDIATELY BE BROUGHT TO THE ENGINEER'S ATTENTION.

6. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. THE DRAINAGE INCLUDES SURFACE AND GROUND WATER. ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY. ALL CONSTRUCTION STORM RUNOFF SHALL COMPLY WITH THE FINAL DRAFT OF STORM WATER MANAGEMENT HANDBOOK FOR CONSTRUCTION ACTIVITIES AS PREPARED BY HARRIS COUNTY/HCFCD, AND THE CITY OF HOUSTON ALL IN COMPLIANCE WITH THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) REQUIREMENTS.

7. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG THE AREA OF EXCAVATION. SEE LANDSCAPE PLANS FOR PROTECTION OF EXISTING TREES DURING CONSTRUCTION.

8. THE CONTRACTOR SHALL COMPLY WITH THE LATEST EDITION OF OSHA REGULATIONS AND THE STATE OF TEXAS LAWS CONCERNING EXCAVATION.

9. IF THE CONSTRUCTION DOES NOT BEGIN WITHIN A YEAR AFTER THE PLANS HAVE BEEN SIGNED, NEW SIGNATURES MUST BE OBTAINED AND LETTERS OF AVAILABILITY MUST BE UPDATED.

10. CONTRACTOR SHALL PREPARE A SET OF "AS-BUILT" DRAWINGS SHOWING ANY FIELD CHANGES MADE TO THE APPROVED ENGINEERING PLANS AND SUBMIT TO THE DESIGN CONSULTANT FOR SUBMISSION TO CITY ENGINEER.

11. CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE FACILITIES TO DIRECT SURFACE DRAINAGE AWAY FROM TRENCHES AND TOWARDS OFF SITE DRAINAGE FACILITIES. PREVENT WATER FROM PONDING ON SITE AND DO NOT BLOCK DRAINAGE FROM OR DIRECT EXCESS DRAINAGE ON TO ADJACENT PROPERTY.

12. EXISTING PAVEMENTS, CURBS, SIDEWALKS, AND DRIVEWAYS WITHIN PUBLIC RIGHTS-OF-WAY WHICH HAVE BEEN DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO THE STANDARDS OF THE APPROPRIATE REGULATORY AGENCY.

13. CONTRACTOR SHALL CONSTRUCT ALL GRAVITY SEWER LINES COMMENCING AT THE LOWEST ELEVATION AND PROCEED IN THE UPSTREAM DIRECTION. CONTRACTOR SHALL VERIFY CLEARANCES WITH ALL UNDERGROUND OBSTRUCTIONS BEFORE LAYING PIPE.

14. EXCAVATE ALL TRENCHES EVENLY TO LINE AND GRADE SHOWN.

15. CONTRACTOR SHALL KEEP TRENCH DRY AT ALL TIMES AND SHALL PROVIDE AUTOMATIC OR CONTINUOUS TRENCH PUMPS, AND WELL POINTS, IF NECESSARY TO OBTAIN DRY BEDDING CONDITIONS.

16. CONTRACTOR SHALL KEEP TRENCHES, PIPE BEDDING AND BACKFILL FREE OF DEBRIS.

17. CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAW CONCERNING TRENCHING AND SHORING AS SPECIFIED IN CITY OF HOUSTON STANDARD SPECIFICATION, SECTION 02260.

18. INCLUDE COST OF BEDDING AND BACKFILL OF TYPE REQUIRED FOR WATERLINES, SANITARY SEWERS, AND STORM SEWERS IN UNIT PRICE BID FOR PIPE, UNLESS OTHERWISE NOTED.

19. ALL MATERIALS FOR PROPOSED CONSTRUCTION OR REPAIR OF EXISTING FACILITIES SHALL BE NEW PRODUCTS DIRECT FROM THE FACTORY AND FREE FROM DEFECTS.

20. CONTRACTOR SHALL PROVIDE ALL TESTS, PLUGS, RISERS, GAUGES, GAUGE CALIBRATION DEVICES, TEST PUMPS AND COMPRESSORS AS NECESSARY TO MAKE TESTS. (NO SEPERATE PAY).

21. WASTE MATERIALS INCLUDING PAVEMENT REMOVED DURING CONSTRUCTION, WASTE PIPING AND SUPPLIES, CONSTRUCTION DEBRIS AND EXCESS EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR.

22. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO STARTING CONSTRUCTION.

23. CONTRACTOR SHALL HAVE A COPY OF ALL DRIVEWAY PERMITS ON SITE AT ALL TIMES DURING CONSTRUCTION OF DRIVES AND DRIVEWAY CULVERTS.

24. CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, AND PERSONS IN CHARGE OF PUBLIC AND PRIVATE UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO STARTING WORK.

25. CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY THE "REGULATIONS OF HARRIS COUNTY, TEXAS FOR FLOOD PLAIN MANAGEMENT" PRIOR TO STARTING CONSTRUCTION.

26. OWNER TO OBTAIN ALL PERMITS REQUIRED BY HARRIS COUNTY, TEXAS PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN HARRIS COUNTY ROAD RIGHTS-OF-WAY.

27. ACCESS TO ALL EXISTING STREETS AND DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.

28. SURFACE RESTORATION: AT THE END OF ALL CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL RESTORE THE EXISTING FACILITIES AND ALL SPOIL MATERIAL, VEGETATION & DEBRIS SHALL BE HAULED AND DISPOSED OF OFF SITE, I.E., THE PROPERTY, SHALL BE MADE EQUAL TO OR BETTER THAN EXISTING SITE CONDITION PRIOR TO CONSTRUCTION.

29. CONTRACTOR SHALL HYDROMULCH SEED ALL DISTURBED AREA UNLESS OTHERWISE SHOWN ON ARCHITECTS/LANDSCAPE ARCHITECTS PLANS.

30. GRADING AROUND BUILDINGS INCLUDING SIDEWALKS SHALL BE COORDINATED WITH ARCHITECT AND FINAL APPROVAL OF GRADES IN GRASS AREAS AND SWALES SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION OF LANDSCAPING MATERIALS TO ENSURE POSITIVE DRAINAGE.

31. IN ORDER TO COMPLY WITH TEXAS ACCESSIBILITY STANDARDS, THE CONTRACTOR SHALL ENSURE THAT THE SLOPE OF SIDEWALK AND/OR PAVING IN THE FIRST FIVE FEET OUTSIDE ANY DOOR DOES NOT EXCEED 2% IN ANY DIRECTION.

32. GUIDELINES SET FORTH IN THE TEXAS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", AS CURRENTLY AMENDED, SHALL BE OBSERVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE FLAG MEN, SIGNING, STRIPING AND WARNING DEVICES, ECT., DURING CONSTRUCTION — BOTH DAY AND NIGHT.

33. THE WORK AREA SHALL BE BARRICADED AND ILLUMINATED DURING DARKNESS AND PERIODS OF INACTIVITY, WHEN IN AN AREA OF DIRECT PUBLIC ACCESS.

34. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STORAGE OF MATERIAL AND EQUIPMENT IN A SAFE AND WORKMANLIKE MANNER TO PREVENT INJURIES, DURING AND AFTER WORKING HOURS UNTIL PROJECT COMPLETION. THERE SHALL BE NO PAYMENT MADE TO CONTRACTOR FOR STORED MATERIAL.

35. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SHIPPING OF ALL MATERIALS. THE LOADING AND UNLOADING OF ALL PIPE, VALVES, HYDRANTS, MANHOLES AND OTHER ACCESSORIES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDED PRACTICES AND SHALL BE AT ALL TIMES PERFORMED WITH CARE TO AVOID ANY DAMAGE TO THE MATERIAL. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO EXAMINE SUCH MATERIAL AT THE POINT OF DELIVERY AND TO REJECT ALL DEFECTIVE MATERIAL. THE DEFECTIVE MATERIAL MUST BE REPLACED WITH SOUND MATERIAL.

36. CONTRACTOR SHALL NOT PERFORM ANY WORK WITHIN AREA DELINEATED AS WETLANDS UNTIL ALL NECESSARY-PERMITS ARE APPROVED.

37. TREE AND PLANT PROTECTION—CONTRACTOR IS TO PRESERVE AND PROTECT EXISTING TREES AND PLANTS FROM FOLIAGE, BRANCH, TRUNK AND/OR ROOT DAMAGE THAT COULD RESULT FROM CONSTRUCTION OPERATIONS AS PER THE CITY OF HOUSTON STREET TREE ORDINANCE AND CITY OF HOUSTON SPECIFICATIONS 01562, INSIDE OF THE CITY'S EXISTING PAVED PUBLIC ROAD R-O-W'S AND ANY AFFECTED COMMERCIAL B.L. SETBACK AREAS.

38. ALIGNMENT, CURVE DATE, BASELINE STATIONING AND RIGHT-OF-WAY (ROW) AND EASEMENT WIDTHS SHALL BE VERIFIED FROM AN APPROVED SUBDIVISION PLAT.

39. CONTRACTOR SHALL ADJUST ALL EXISTING MANHOLES, VALVE, METER BOXES, INLETS, ETC. TO PROPOSED TOP OF PAVEMENT OR FINISHED GRADE. IF MANHOLE IS IN ROW, ADJUST TO NG. IF OUTSIDE ROW, ADJUST MH TO FG + 3". NO SEPARATE PAY FOR ADJUSTING EXISTING FACILITIES.

40. ALL EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE SWP3 MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION. IF DURING INSPECTIONS THE PERMITEE DETERMINES THAT BMPS ARE NOT OPERATING EFFECTIVELY, MAINTENANCE MUST BE PERFORMED BEFORE THE NEXT ANTICIPATED STORM EVENT OR AS NECESSARY TO MAINTAIN THE CONTINUED EFFECTIVENESS OF STORM WATER CONTROLS. EROSION AND SEDIMENT CONTROLS THAT HAVE BEEN UNINTENTIONALLY DISABLED, RUN-OVER, REMOVED, OR OTHERWISE RENDERED INEFFECTIVE MUST BE REPLACED OR CORRECTED IMMEDIATELY UPON DISCOVERY.

PRIVATE UTILITY NOTES

NOTICE
THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 713-223-4567 OR TOLL FREE 1-800-344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.

CAUTION: SBC FACILITIES

THE LOCATION OF SBC FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.

THE CONTRACTOR SHALL CALL 1-800-344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.

WHEN EXCAVATING WITHIN EIGHTEEN (18) INCHES OF THE INDICATED LOCATION OF SBC FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING THE CONTRACTOR SHALL EXPOSE THE SBC FACILITIES.

WHEN SBC FACILITIES ARE EXPOSED, THE CONTRACTOR SHOULD PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.

CAUTION: UNDERGROUND GAS FACILITIES

LOCATION OF CENTERPOINT ENERGY MAIN LINES (TO INCLUDE CENTERPOINT ENERGY INTRASTATE PIPELINE, LLC. WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. OUR SIGNATURE ON THESE PLANS ONLY INDICATES THAT OUR FACILITIES ARE SHOWN IN APPROXIMATE LOCATION. IT DOES NOT IMPLY THAT A CONFLICT ANALYSIS HAS BEEN MADE. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 713-223-4567 OR 1-800-669-8344 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713) 967-8037 (7:00am to 4:30 pm) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.

WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.

WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

CAUTION: OVERHEAD ELECTRICAL FACILITIES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. WE HAVE NOT ATTEMPTED TO MARK THOSE LINES SINCE THEY ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH AND SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS, ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED, CALL CENTERPOINT ENERGY AT 713-207-2222.

CONTRACTOR TO NOTIFY THE "UNDERGROUND UTILITY COORDINATING COMMITTEE" (TELEPHONE: 713-223-4567) AND CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS (TELEPHONE: 713-863-1450) 48 HOURS BEFORE STARTING WORK IN STREET RIGHT-OF-WAY OR EASEMENTS.

DISCOUNT TIRE CO. INC.

SITE PLUMBING CONSTRUCTION NOTES:

1. GENERAL CONSTRUCTION NOTES APPLY TO SITE PLUMBING.

2. WATER LINES, WASTEWATER COLLECTION SYSTEMS, AND STORM DRAINAGE SYSTEMS SHALL BY DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING DESIGN MANUAL.

3. TOP OF PROPOSED STORM SEWER MANHOLES, VALVE BOXES, ETC., SHALL BE SET TO MATCH FINISHED GRADE OR PROPOSED TOP OF PAVEMENT. TOP OF EXISTING MANHOLES, VALVE BOXES, ETC., SHALL BE ADJUSTED AS REQUIRED. SANITARY SEWER MANHOLES TO MATCH PROPOSED PAVEMENT GRADE OR 3 TO 6 INCHES ABOVE FINISHED GRADE IN LANDSCAPE AREAS, WITH SLOPED BACKFILL FOR STORM WATER DRAINAGE AWAY FROM RIM.

4. ALL TRENCHES, INLETS, MANHOLES, CLEANOUTS, ETC., UNDER, OR WITHIN FIVE FEET OF PAVEMENT, SHALL BE BACKFILLED WITH SELECT MATERIAL PLACED IN LOOSE LIFTS NOT EXCEEDING 8-INCHES IN DEPTH AND COMPACTED TO 95% STANDARD PROCTOR DENSITY. CONTRACTOR MAY, AT HIS OPTION, BACKFILL SEWER TRENCHES WITH COMPACTED CEMENT STABILIZED SAND TO A POINT ONE FOOT BELOW BOTTOM OF PAVEMENT, IN LIEU OF SELECT MATERIALS.

5. ALL TRENCHES NOT UNDER, OR WITHIN FIVE FEET OF PAVEMENT SHALL BE BACKFILLED WITH SELECT MATERIAL PLACED IN LOOSE LIFTS NOT EXCEEDING 12-INCHES IN DEPTH AND COMPACTED TO THE DENSITY OF NATURAL SURROUNDING SOIL, BUT NOT LESS THAN 95% STANDARD PROCTOR DENSITY (ASTM D698).

6. MAINTAIN 6-INCH MINIMUM VERTICAL CLEARANCE AT PIPE CROSSINGS.

7. CONTRACTOR SHALL COORDINATE WITH ARCHITECTS DRAWINGS TO VERIFY LOCATION AND SIZE OF ALL ROOF DRAINS AND UTILITY CONNECTIONS. ALL ROOF DRAINS TO HAVE AIR GAP AT GRADE. LIMITS OF PROPOSED SITE PLUMBING FACILITIES SHALL BE 5-FEET FROM EDGE OF BUILDING, UNLESS OTHERWISE NOTED.

8. ALL PVC PIPE SHALL BE MADE FROM CLASS 12454-A OR 12454-B VIRGIN COMPOUNDS PER ASTM D 1784.

9. **WATER SYSTEM**
   A. ALL CONSTRUCTION AND MATERIALS, INCLUDING WATER METERS, SHALL BE IN ACCORDANCE WITH NOTE 2 ABOVE.

   B. FIRE SPRINKLER LINES SHALL BE INSTALLED AND TESTED BY A CONTRACTOR LICENSED BY THE STATE TO PERFORM SUCH WORK UNDER SECTION 4(A) & (B) OF ARTICLE 5.43-3 OF THE TEXAS INSURANCE CODE. CONTRACTOR SHALL FURNISH OWN CONTRACTOR'S MATERIAL & TEST CERTIFICATE FOR UNDERGROUND PIPING AS REQUIRED BY THE TEXAS COMMISSION ON FIRE PROTECTION.

   C. ALL PVC PIPE USED IN WATER SYSTEMS SHALL BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL.

   D. WATER LINE PIPE AND FITTINGS MATERIALS SHALL BE AS FOLLOWS:
      1) LESS THAN 4-INCH POTABLE WATERLINE — SCHEDULE 40, PVC1120, PER ASTM D 1785, EXCEPT THAT THREADED PIPE SHALL BE SCHEDULE 80.

      2) 4-INCH AND LARGER POTABLE WATERLINE—AWWA C900, SDR 18, CL 150 PVC.

      3) FIRE SPRINKLER LINE—DUCTILE IRON PIPE (DIP) PRESSURE CLASS 200, THICKNESS CLASS 51 OR AWWA C900, SDR 14, CL 200 PVC.

      4) FITTINGS FOR LESS THAN 4-INCH POTABLE WATERLINE SHALL BE ASTM D2466 SCHEDULE 40 PVC. THREADED FITTINGS SHALL BE SCHEDULE 80 PER ASTM D 2467.

      5) FITTINGS FOR 4-INCH & LARGER WATERLINE SHALL BE ALL-BELL, PUSH-ON, DUCTILE IRON COMPACT FITTINGS FOR WATER MAINS, ANSI A21.53, WITH CEMENT-MORTAR LINING AND POLYETHYLENE WRAP.

   E. VALVES
      1) 1-1/2 INCHES AND SMALLER SHALL BE 125 PSIG; BRONZE; RISING STEM; SINGLE-WEDGE; DISC TYPE; SCREWED ENDS; CRANE NO. 428.

      2) 2-INCH THRU 2-1/2 INCH VALVES SHALL BE IRON BODY; DOUBLE GATE; NON-RISING STEM; 150-PSIG TEST; 2-INCH SQUARE NUT OPERATING CLOCKWISE TO OPEN.

      3) 3-INCH AND LARGER VALVES SHALL BE 200 PSIG GATE VALVES PER AWWA C500 OR C509; PUSH-ON BELL ENDS WITH RUBBER JOINT RINGS; 2-INCH NUT OPERATING CLOCKWISE TO OPEN.

   F. WATERLINE BEDDING SHALL BE BANK SAND, EXTENDED 12-INCHES ABOVE THE TOP OF PIPE AND AS PER DETAIL NO. 162. BACKFILL SHALL BE AS PER NOTES 4 AND/OR 5 ABOVE. COST OF BANK SAND TO BE INCLUDED IN THE UNIT PRICE OF WATERLINE.

   G. POLYETHYLENE WRAP ALL CAST AND DUCTILE IRON PIPE & FITTINGS PER SPECS.

   H. POTABLE WATERLINES SHALL HAVE A MINIMUM COVER OF 3'-6" BELOW NATURAL GROUND, FINISH GRADE, OR MEAN ELEVATION OF NEARBY DITCH, WHICH EVER IS LOWER. FIRE SPRINKLER SHALL HAVE A MINIMUM COVER OF 4'-0" FROM NATURAL GROUND, FINISH GRADE, OR MEAN ELEVATION OF NEARBY DITCH, WHICHEVER IS LOWER. CONTRACTOR SHALL PROVIDE THRUST BLOCKING TO WITHSTAND 125% OF TEST PRESSURES.

   I. WHERE A DOMESTIC WATERLINE CROSSES A SANITARY SEWER, INSTALL ONE JOINT (MINIMUM 18-FT LENGTH) OF WATERLINE PIPE CENTERED ON THE SEWER.

   J. DISINFECT & FLUSH 6-INCH & LARGER WATER SUPPLY LINES IN ACCORDANCE WITH AWWA C651.

   K. HYDROSTATIC TEST 4-INCH & LARGER WATER LINES IN CONFORMANCE WITH CITY OF HOUSTON STD. SPEC. 02515. TEST PRESSURES AS FOLLOWS:

      1) FIRE SPRINKLER LINES: 200 PSI

      2) ALL OTHER WATER LINES: 125 PSI

   L. CENTER OF FIRE HYDRANT (FH) TO BE LOCATED 3' FEET FROM BACK OF CURB.

   M. CONTRACTOR TO TURN FIRE HYDRANTS AND MAKE ALL FINAL ADJUSTMENTS AFTER COMPLETION OF PAVING. NO SEPERATE PAY.

10. **SANITARY SYSTEM**
   A. UNLESS OTHERWISE NOTED, ALL SANITARY SEWER PIPE IN THIS PROJECT SHALL BE SDR 26 PVC. PRESSURE CLASS 160 PSI, ASTM D2241 WITH ELASTOMERIC JOINTS, IN ACCORDANCE WITH ASTM D 3139 AND GASKETS PER ASTM F 477. PROVIDE ELASTOMERIC WATERSTOP GASKET AND QUICK-SET, NONSHRINK GROUT AT CONNECTIONS TO MANHOLES.

   B. ALL SANITARY SEWER FITTINGS SHALL BE SDR 26 OR SCHEDULE 40 PVC PER ASTM D 1785. ASTM D 1784 AND/OR ASTM D 2241 AND SHALL HAVE AT LEAST 100 PSI PRESSURE RATING. THE FITTINGS SHALL HAVE ELASTOMERIC JOINTS PER ASTM D 3139 AND GASKETS PER ASTM F 477. FITTINGS SHALL BE AS MANUFACTURED BY GPK PRODUCTS, INC. OR HARCO.

   C. SANITARY SEWER BEDDING SHALL BE CEMENT STABILIZED SAND AND IN ACCORDANCE WITH DETAIL NO.161. BACKFILL SHALL BE AS PER NOTES 4 AND/OR 5 ABOVE.

   D. SANITARY SEWER MANHOLES SHALL BE 4-FT. DIA. PRECAST CONCRETE MANHOLES IN ACCORDANCE WITH DETAIL NO.146, UNLESS OTHERWISE NOTED. NO BRICK MANHOLES ALLOWED.

   E. WHERE A SANITARY SEWER CROSSES A WATERLINE, CENTER ONE JOINT (MINIMUM 18-FT LENGTH) OF SANITARY SEWER PIPE ON THE WATERLINE

11. **STORM SEWER SYSTEM**
   A. STORM DRAIN PIPING SHALL BE AS FOLLOWS:

      1) 15-INCH AND SMALLER, SDR 35 PVC, ASTM 3034, WITH ELASTOMERIC JOINTS PER ASTM D 3212, EXCEPT SOLVENT-CEMENT JOINTS AT FITTINGS. GASKETS SHALL BE PER ASTM F477.

      2) 18-INCH AND LARGER, RCP, ASTM C-76, CLASS III, TONGUE & GROOVE, WITH RAM-NEK JOINT SEALANT UNLESS OTHERWISE NOTED. PIPES 36-INCH AND SMALLER SHALL BE SINGLE WRAPPED WITH RAM-NEK. PIPES 42-INCH AND LARGER SHALL BE DOUBLE WRAPPED OR RUBBER GASKETED.

      3) ALL STORM DRAIN PIPING IN PUBLIC RIGHTS-OF-WAY SHALL BE RCP, CLASS III, C76, WITH RUBBER GASKETED JOINTS, UNLESS OTHERWISE NOTED.

      4) PROVIDE ELASTOMERIC WATERSTOP GASKET AND QUICK-SET NONSHRINK MORTAR GROUT AT CONNECTIONS TO MANHOLES AND INLETS.

   B. STORM SEWER GRATE TOP INLETS SHALL BE AS PER DETAILS ON SITE UTILITY DETAIL SHEET. UNLESS OTHERWISE NOTED, ALL CURB TYPE INLETS SHALL BE TYPE "C" INLETS PER CITY OF HOUSTON DWG.02632-06. ROUND SLOTTED GRATE TOP FOR TYPE C MANHOLES SHALL BE CAST IRON "EAST JORDAN IRON WORKS" SLOTTED GRATE INLETS OF THE SIZE SPECIFIED FROM THE V-3420 (ROUND W/GRATE) SERIES.

   C. STORM SEWER MANHOLES SHALL BE TYPE "C" PER DETAIL NO. 148, AS APPROPRIATE.

   D. STORM SEWER BEDDING SHALL BE CEMENT STABILIZED SAND AND IN ACCORDANCE WITH COH DRAWINGS SHOWN BELOW. BACKFILL SHALL BE AS PER NOTES 4 AND/OR 5 ABOVE.

      1) DETAIL NO.160: PIPES LESS THAN 24-INCHES IN DIAMETER
      2) DETAIL NO.160: PIPES 24-INCHES THRU 36-INCHES IN DIAMETER
      3) COH DWG. 02317-03: PIPES 42-INCHES AND LARGER IN DIAMETER

   E. UNDERGROUND ROOF DRAIN PIPING SHALL BE ASTM D3034, SDR 35, PVC, WITH ELASTOMERIC JOINTS, EXCEPT SOLVENT-CEMENT JOINTS AT FITTINGS, PROVIDE ELASTROMATIC WATERSTOP GASKET AND QUICK-SET, NONSHRINK GROUT AT CONNECTIONS TO MANHOLES AND INLETS.

   F. POLYETHYLENE PIPE MAY BE SUBSTITUTED FOR REINFORCED CONCRETE PIPE SUBJECT TO THE FOLLOWING:

      1. FOR PIPES 36" AND SMALLER—CEMENT STABILIZED SAND PLACED BEFORE PIPE IS LAID, TO 7" MIN. DEPTH. FOR SEWERS 42"-60" CEMENT STABILIZED SAND PLACED BEFORE PIPE IS LAID, TO 10" MIN. DEPTH.

      2. CEMENT STABILIZED SAND, THOROUGHLY RODDED, PLACED AND COMPACTED TO 95% STANDARD PROCTOR DENSITY 1'-0" ABOVE THE TOP OF PIPE, AFTER PIPE IS LAID.

      3. PIPE AND FITTINGS: THE TYPES OF PIPE WILL BE INDICATED ON THE DRAWINGS BY THE FOLLOWING DESCRIPTION CONFORMING TO AASHTO M 252, AASHTO M 294, AND/OR AASHTO MP6-95, LATEST EDITION. PIPE DESCRIPTION: CPP (CORRUGATED POLYETHYLENE PIPE).

      4. TYPE S (THIS PIPE SHALL HAVE A FULL CIRCULAR CROSS- SECTION, WITH AN OUTER CORRUGATED PIPE WALL AND A SMOOTH INNER LINE.)

      5. EXCEPT AS OTHERWISE REQUIRED HEREIN OR BY THE ENGINEER, JOINTS FOR CORRUGATED POLYETHYLENE PIPE SHALL BE RUBBER GASKETED BELL & SPIGOT AND MEET THE REQUIREMENTS OF ASTM F477.

      6. FITTINGS: FURNISH FITTINGS AND SPECIALS REQUIRED FOR BENDS, END SECTIONS, BRANCHES, ACCESS MANHOLES, AND CONNECTIONS TO OTHER FITTINGS. DESIGN FITTINGS AND SPECIALS IN ACCORDANCE WITH DRAWING AND AASHTO M 252 OR AASHTO M 292 OF AASHTO MP6-95. FITTINGS AND SPECIALS ARE SUBJECT SAME INTERNAL AND EXTERNAL LOADS AS STRAIGHT PIPE.

      7. PIPE FABRICATION: CORRUGATED POLYETHYLENE PIPE SHALL BE MANUFACTURED WITH EITHER ANNUAL CORRUGATIONS, OR HELICAL CORRUGATIONS OF A CLOSED PROFILE CORRUGATION MEETING THE PERFORMANCE REQUIREMENTS OF AASHTO M 252 OF AASHTO M 294 OR AASHTO MP6-95. REFER TO PLANS FOR SPECIFIC PIPE SIZES.

      8. NO POLYETHYLENE PIPE MAY BE PLACED WITHIN PUBLIC STREET R.O.W.

12. CONTRACTOR SHALL INSTALL PVC SLEEVES WHERE SHOWN IN PLANS. SLEEVES SHALL BE ASTM D 3034, SDR 26, PVC PIPE WITH ELASTOMERIC JOINTS PER ASTM F477.

13. REINFORCED CONCRETE (C76 CLASS III) STORM SEWER BOXES SHALL BE INSTALLED, BEDDING AND BACKFILL IN ACCORDANCE WITH THE CITY OF HOUSTON'S DRAWINGS 02317-05, 02317-06, AND 02317-07 AS APPLICABLE.

14. ALL STORM SEWER CONSTRUCTED IN SIDE LOT EASEMENTS SHALL BE R.C.P., MINIMUM TWENTY (20) FOOT WIDE EASEMENTS SHALL BE PROVIDED.

15. ALTERNATE TO CEMENT STABILIZED SAND BACKFILL FOR PIPES FIFTY-FOUR (54) INCH AND LARGER, FROM 1-FOOT ABOVE THE TOP OF THE PIPE TO THE BOTTOM OF THE SUBGRADE. CONTRACTOR MAY BACKFILL WITH SUITABLE MATERIAL, PROVIDED THE BACKFILL MATERIAL IS PLACED IN (8) INCH LIFTS AND MECHANICALLY COMPACTED TO NINETY-FIVE (95)% STANDARD PROCTOR DENSITY. TESTS SHALL BE TAKEN AT ONE HUNDRED (100) FOOT INTERVALS ON EACH LIFT. BEDDING AND BACKFILL TO ONE (1) FOOT ABOVE THE TOP OF THE PIPE SHALL BE CEMENT-STABILIZED SAND.

16. ALL PROPOSED PIPE STUB-OUTS FROM MANHOLES OR INLETS ARE TO BE PLUGGED WITH EIGHT (8) INCH BRICK WALLS UNLESS OTHERWISE NOTED.

17. CONTRACTOR TO PROVIDE 12" MINIMUM CLEARANCE AT STORM SEWER AND WATER LINE CROSSINGS.

SITE CLEARING AND GRADING CONSTRUCTION NOTES:

1. ALL EARTHWORK TO BE DONE IN CONFORMANCE WITH REQUIREMENTS OF GEOTECHNICAL ENGINEERING REPORTS PREPARED BY THE TERRACON PROJECT NO. 92085242 DATED JULY 24, 2008.

2. PROJECT AREA TO BE STRIPPED OF TOP SOIL TO DEPTH AS INDICATED BY SOILS ENGINEER (APPROXIMATELY 4-6 INCHES MINIMUM). TOP SOIL, RUBBISH, DEBRIS, AND OTHER OBJECTIONABLE MATERIAL TO BE DISPOSED OF OFF PROJECT SITE.

3. CONTRACTOR TO REMOVE ALL TREES & SHRUBS INDICATED TO BE REMOVED. REMOVE STUMPS, MAIN ROOT BALL, AND ROOT SYSTEMS TO 24-INCHES (MIN.) BELOW EXISTING GRADE. SEE GEOTECH REPORT FOR ADDITIONAL REQUIREMENTS. APPLY HERBICIDE TO REMAINING STUMPS TO INHIBIT GROWTH.

4. CONTRACTOR TO CLEAR UNDERGROWTH & DEAD WOOD WITHOUT DISTURBING SUBSOIL.

5. PAVING SUBGRADE PREPARATIONS TO BE IN CONFORMANCE WITH THE SOILS REPORT, PROJECT SPECIFICATIONS, AND DETAILS IN PLANS (MOST STRINGENT APPLIES).

6. CONTRACTOR SHALL CUT AND FILL SITE AS REQUIRED TO OBTAIN FINISHED ELEVATIONS SHOWN ON PLANS. COMPACT SELECT BACKFILL MATERIAL TO 95% STANDARD PROCTOR DENSITY AS PER ASTM D-698 AND IN CONFORMANCE WITH SOILS REPORT REQUIREMENTS. MAXIMUM SIDE SLOPES TO BE 3:1. ALL REQUIREMENTS OF PROJECT SPECIFICATIONS FOR EARTHWORK SHALL BE MET.

7. CONTRACTOR TO PROVIDE TEMPORARY MEASURES TO CONTROL STORM WATER RUN-OFF DURING CONSTRUCTION AS REQUIRED TO MINIMIZE EROSION AND TO MEET TPDES REQUIREMENTS.

8. EXCESS EXCAVATION SHALL BE HAULED OFF SITE AT CONTRACTORS EXPENSE. PRIOR TO FILL, THE SURFACE AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOP SOIL. FILL SURFACE SHALL BE PROOF-ROLLED AND THE TOP 6-INCHES SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY PER ASTM D 698.

9. THE FILL SHALL BE PLACED IN LOOSE LIFTS NOT EXCEEDING 8-INCHES AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698. THE MOISTURE CONTENT FOR COMPACTION OF SITE FILL SHALL BE AS DETERMINED BY THE SOILS ENGINEER.

10. THE ON-SITE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE WILL MONITOR THE FILL OPERATION, IDENTIFY SOIL TYPES, AND MAKE RECOMMENDATIONS CONCERNING SELECTION AND PLACEMENT OF SOILS.

11. MAXIMUM CROSS SLOPES FOR SIDEWALKS AND A.D.A. ACCESS ROUTES SHALL NOT EXCEED 2.0%. RAMP SLOPES SHALL NOT EXCEED 1-INCH PER FOOT (8.33%). MAXIMUM SLOPES FOR HANDICAP PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2.0% IN ANY DIRECTION.

12. ALL EXISTING UTILITIES UNDER PROPOSED BUILDING TO BE REMOVED AND BACK-FILLED PER THE GEOTECH REPORT.

13. CONTRACTOR TO COORDINATE WITH LANDSCAPE PLANS TO ESTABLISH FINISHED GRADE WITHIN LANDSCAPE AREAS.

PAVING CONSTRUCTION NOTES:

1. GENERAL CONSTRUCTION NOTES APPLY TO PAVEMENT CONSTRUCTION.

2. PAVING MATERIALS AND PROCEDURES SHALL BE IN CONFORMANCE WITH THE SOILS REPORTS, PROJECT SPECIFICATIONS, AND DETAILS IN PLANS (MOST STRINGENT APPLIES).

3. ALL ROAD WIDTHS, CURB RADII, AND CURVE ALIGNMENT SHOWN INDICATE FACE OF CURB. T.C. INDICATES TOP OF CURB ELEVATION.

4. CONTRACTOR MAY PROVIDE EXPANSION JOINTS AT LOW POINTS IN PAVING AND SHALL PROVIDE CONSTRUCTION JOINTS AT ALL HIGH POINTS IN PAVING. EXPANSION JOINTS MAY BE SUBSTITUTED FOR CONSTRUCTION JOINTS. EXPANSION JOINT SHALL BE PLACED AT THE END OF EACH CURB RETURN AND AS SPECIFIED IN THE GEOTECH REPORT. IF SAWED JOINT ARE USED, THEY MUST BE CUT WITHIN 6 TO 12 HOURS OF CONCRETE PLACEMENT. CURB AND SIDEWALK JOINTS (WHERE SIDEWALK IS ADJACENT TO PAVING) SHALL BE ALIGNED WITH PAVING JOINTS.

5. ALL CONCRETE PAVEMENT SHALL BE PORTLAND CEMENT CONCRETE, HAVING A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI IN 28 DAYS WITH REINFORCING STEEL CONFORMING TO ASTM A-615, GRADE 60. PROVIDE MINIMUM 30 BAR DIAMETERS LAP. SEE GEOTECH REPORT FOR ADDITIONAL BAR SPACING.

6. CONNECT TO EXISTING PAVEMENT USING HORIZONTAL DOWEL EXPANSION JOINTS. WHERE SHOWN ON PLANS, SAW CUT EXISTING PAVEMENT TO FULL PAVEMENT DEPTH. HORIZONTAL DOWELS SHALL BE NO. 6 BARS, 18-INCHES LONG, DRILLED AND EMBEDDED 9-INCHES INTO THE CENTER OF THE EXISTING SLAB WITH "PO ROC" OR EQUAL. DOWEL SPACING SHALL BE 12-INCHES CENTER TO CENTER, UNLESS OTHERWISE NOTED.

7. WHERE PROPOSED PAVEMENT IS TO BE CONSTRUCTED IN PUBLIC EASEMENTS, CONSTRUCTION JOINTS SHALL BE PLACED ALONG THE ENTIRE EASEMENT LINE OF THE ENCROACHMENT AND TRANSVERSE TO THE EASEMENT AT LEAST EVERY 10-FEET. MANHOLES, CLEANOUT, VALVE BOXES, ETC., SHALL BE ADJUSTED TO FINISH GRADE. SAW CUTS ARE AN ACCEPTABLE ALTERNATIVE TO CONSTRUCTION JOINTS.

8. DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HARRIS COUNTY /CITY OF HOUSTON DETAILS AND PERMITS OR TxDOT REQUIREMENTS, AS APPLICABLE.

9. PORTLAND CEMENT CONCRETE PAVEMENT:

RIGID PAVEMENT SYSTEM		
	MATERIAL THICKNESS, INCHES	
COMPONENT	DI-2	DI-3
REINFORCED CONCRETE	6.0	7.0
LIME TREATED SUB-GRADE	6.0	6.0

DI-2: DRIVEWAYS (LIGHT DUTY)
DI-3: DRIVEWAYS AND TRUCK TRAFFIC AREAS (MEDIUM DUTY).

A. PARKING LIGHT DUTY :6-INCHES OF PORTLAND CEMENT CONCRETE (5½ SACK, 4-INCH MAX. SLUMP) WITH ASTM A615, GRADE 60 STEEL BARS, OVER LIME STABILIZED SUBGRADE PREPARED IN CONFORMANCE WITH SOILS REPORTS. REINFORCING TO BE #3 BARS AT 18 INCHES OR #4 BARS SPACED AT 24 INCHES ON CENTERS IN BOTH DIRECTIONS.

B. MEDIUM DUTY: 7-INCHES OF PORTLAND CEMENT CONCRETE (5½ SACK, 4-INCH MAX. SLUMP) WITH ASTM A615, GRADE 60 STEEL BARS, OVER LIME STABILIZED SUBGRADE PREPARED IN CONFORMANCE WITH SOILS REPORTS. REINFORCING TO BE #4 BARS SPACED AT 18 INCHES ON CENTERS IN BOTH DIRECTIONS.

10. SUBGRADE SHALL BE PREPARED IN CONFORMANCE WITH SOILS REPORT.

11. DRAINAGE OPENINGS ACROSS CURBED ISLANDS TO BE PAVED WITH LIGHT DUTY CONCRETE PAVING.

12. PRIVATE SIDEWALKS SHALL BE MINIMUM 4 1/2" THICK WITH 6 X 6-W2.9 X W2.9 WELDED WIRE FABRIC (TYPICAL). PUBLIC SIDEWALKS SHALL BE IN CONFORMANCE WITH HARRIS COUNTY REQUIREMENTS.

13. ALL FINISHED GRADES SHALL VARY UNIFORMLY BETWEEN FINISHED ELEVATIONS.

14. GUIDELINES SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" SHALL BE OBSERVED.

15. PUBLIC PAVING SHALL BE IN ACCORDANCE WITH THE " REGULATIONS OF HARRIS COUNTY, TEXAS FOR THE APPROVAL AND ACCEPTANCE OF INFRASTRUCTURE", CITY OF HOUSTON STANDARD SPECIFICATIONS, OR TX DOT SPECIFICATIONS AND/OR AMENDMENTS OF SAME, AS APPLICABLE.

16. THE PAVING CONTRACTOR SHALL NOT PLACE PERMANENT PAVING UNTIL ALL SLEEVING FOR IRRIGATION, GAS, TELEPHONE, ELECTRIC, SITE LIGHTING, ETC. HAS BEEN CONSTRUCTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL SLEEVING IS FINALIZED AND IN PLACE PRIOR TO PAVING.

STORM SEWERS
STORM WATER QUALITY PRE-CONSTRUCTION INSPECTION REQUIREMENTS

THE CONTRACTOR SHALL CONTACT THE HARRIS COUNTY STORM WATER QUALITY PERMITTING SECTION AT 713-956-3000 FOR A PRE-CONSTRUCTION INSPECTION PRIOR TO COMMENCING ANY CLEARING OR CONSTRUCTION ACTIVITIES ON THE SITE.

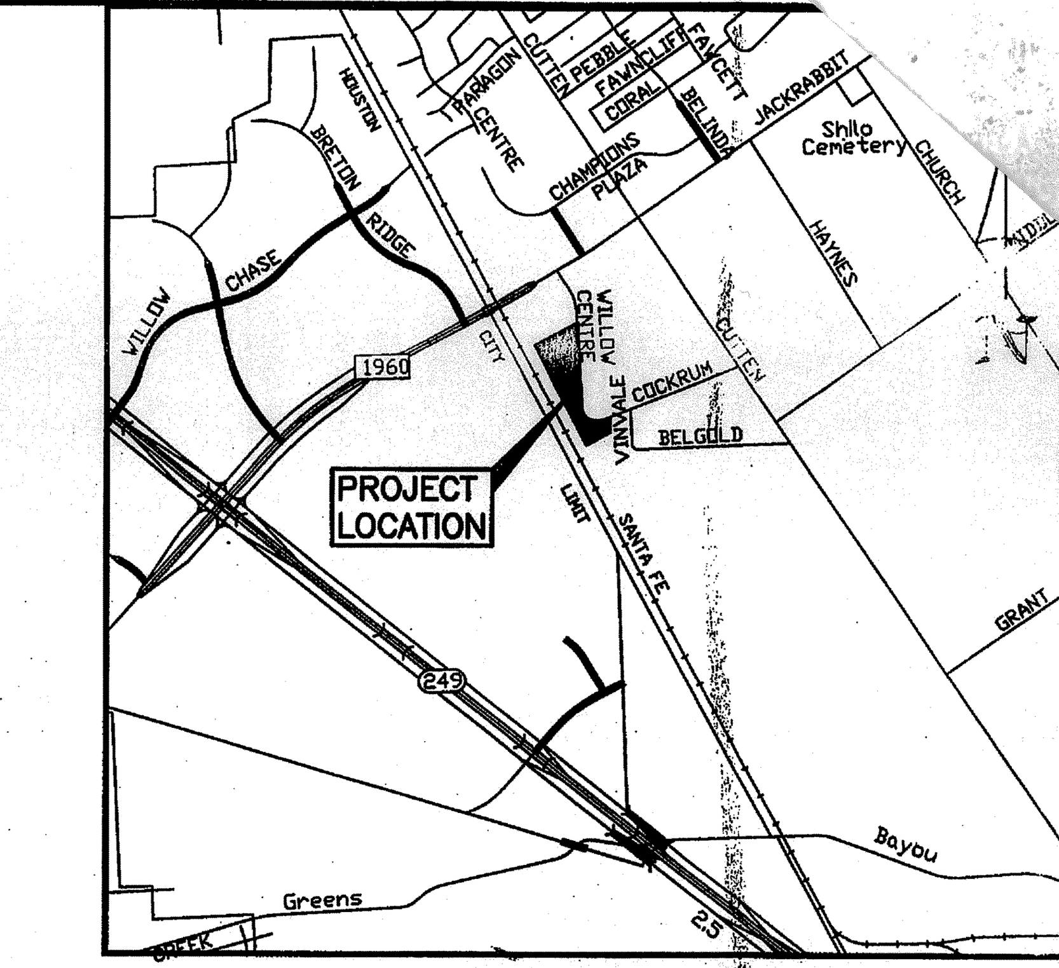
HARRIS COUNTY NOTES

1. CONTRACTOR TO OBTAIN ALL PERMITS REQUIRED BY THE "REGULATIONS OF HARRIS COUNTY, TEXAS FOR FLOOD PLAIN MANAGEMENT" PRIOR TO STARTING CONSTRUCTION.

2. OWNER TO OBTAIN ALL PERMITS REQUIRED BY HARRIS COUNTY, TEXAS PRIOR TO STARTING CONSTRUCTION OF UTILITIES AND/OR CULVERTS WITHIN HARRIS COUNTY FLOOD CONTROL DISTRICT AND HARRIS COUNTY RIGHTS-OF-WAY.

3. PAVING SHALL BE IN ACCORDANCE WITH THE "REGULATIONS OF HARRIS COUNTY, TEXAS FOR THE APPROVAL AND ACCEPTANCE OF INFRASTRUCTURE" AND/OR AMENDMENTS OF SAME.

4. AUTHORIZATION NOTICE ISSUED BY HARRIS COUNTY PUBLIC INFRASTRUCTURE DEPARTMENT — ENGINEERING DIVISION — PERMIT OFFICE — REQUIRED PRIOR TO CONSTRUCTION OF UTILITIES OR LEFT TURN LANES WITHIN HARRIS COUNTY RIGHTS-OF-WAY. CONTACT HARRIS COUNTY PERMIT OFFICE (713) 956-3000.



VICINITY MAP

KEY MAP #370-F
N.T.S.

FLOODPLAIN INFORMATION :

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP No. 48201C0435 L, LAST REVISED JUNE 18, 2007, THE SUBJECT TRACT LIES WITHIN AN AREA DESIGNATED AS ZONE X (UNSHADED); DEFINED AS AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AND ZONE X (SHADED); DEFINED AS AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN ONE FOOT OR WITH DRAINAGE AREAS LESS THAN ONE SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

BENCHMARK NOTE :

PROJECT BENCHMARK:
FEMA RM 150770 LOCATED ON BRETON RIDGE DRIVE +/- 100' NORTH OF FM 1960.
ELEV.=120.92' (NAVD88, 2001 ADJ.)

TBM A:
A "+" ON TOP OF BB-INLET ON WEST SIDE OF WILLOW CENTRE DR. +/- 875' SOUTH OF FM 1960.
ELEV.=116.37' ELEVATIONS BASED ON TSARP RM 150770 (NAVD88, 2001 ADJ.)

LEGAL DESCRIPTION :

A SUBDIVISION CONTAINING 7.0021 ACRES (305,011 S.F.) BEING ALL OF RESTRICTED RESERVE "D", OUT OF WILLOW CENTRE SUBDIVISION RESTRICTED RESERVE "D", SECTION ONE REPLAT, AS RECORDED IN FILM CODE NO. 360064 OF THE H.C.M.R., LOCATED IN THE G.W. CHILDRESS SURVEY, ABSTRACT NO. 217, IN HARRIS COUNTY, TEXAS.

SHEET INDEX

Kevin Polasek, P.E.

STATE OF TEXAS
KEVIN POLASEK
96632
LICENSED
PROFESSIONAL ENGINEER

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY KEVIN POLASEK, P.E. 96632 ON 11-5, 2008

TAI NO. : 0280-0706

ADDRESS : 12825 WILLOW CENTRE DRIVE
HOUSTON, TEXAS 77066

SUBMITTAL DATE : NOVEMBER 5, 2008

UTILITY CONTACTS

GAS: MR. NATHAN CALHOUN
CENTERPOINT ENERGY / ENTEX
20806 EAST HARDY
HOUSTON, TX 77073
(281) 821-1645

ELECTRIC: MR. RICARDO CASTILLO
CENTERPOINT ENERGY
2301 W. GEARS RD.
HOUSTON, TX 77067
(713) 945-4628

TELEPHONE: MR. JOSE CASTILLO
AT&T BAMMEL WIRE CENTER
939 W. GREENS ROAD ROOM 212
HOUSTON, TEXAS 77067
TEL: (281)874-4279
FAX: (281)874-4121
JC4918@ATT.COM

WATER/SEWER MR. JASON OZUNA, DISTRICT ENGINEER
HARRIS COUNTY MUNICIPAL DISTRICT NO. 191
8701 NEW TRAILS DR., SUITE 200
THE WOODLANDS, TX 77381
TEL: (281) 363-4039
FAX: (281) 363-3459

MR. GUS GUSTAFSON, DISTRICT OPERATOR
SOUTHWEST WATER COMPANY
TEL: (832) 209-5073

OWNER: DISCOUNT TIRE COMPANY, INC.
20225 N. SCOTTSDALE ROAD
SCOTTSDALE, AZ 85255
TEL: (480) 606-5931
FAX: (480) 606-4370

ARCHITECT: THE OFFICE OF WILLIAM A. AMOR
1572 SKYLINE DRIVE
FULLERTON, CA 92831
TEL: (714) 870-9531

ENGINEER: TERRA ASSOCIATES, INC.
3000 WILCREST, SUITE 200
HOUSTON, TEXAS 77042
TEL: (713) 993-0333
FAX: (713) 993-0743

ISSUED FOR CONSTRUCTION 11-05-08

REV.NO.	DESCRIPTION	DATE	APP.

DISCOUNT TIRE (DISTRIBUTION) HOUSTON – WILLOWBROOK

GENERAL NOTES

TERRA ASSOCIATES, INC.
CONSULTING ENGINEERS

3000 WILCREST – SUITE 200
HOUSTON, TEXAS ZIP 77042
PHONE: 713-993-0333
FAX: 713-993-0743

DRAWN BY: DAB	SCALE: N/A	CONTRACT: 1
CHECKED BY: KBP	DATE: NOVEMBER 2008	PROJECT No. 0280-0706
FILE NAME: C1-NOTES.DWG	PLOT SCALE: 1:1	SHEET C1 OF 15

F:\Clients\0280 Discount Tire\0280-0706 DT Willow Brook\Drawings\C1-NOTES.dwg Nov 05, 2008-9:37am Terra Associates Inc., danb