



GENERAL NOTES:

- TRENCH EXCAVATION PROTECTION: CONTRACTOR OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY EQUIPMENT CONSULTANT SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES) WITHIN THE PROJECT WORK AREA IN ORDER TO DEVELOP THE CONTRACTOR'S PLANS TO IMPLEMENT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S PLANS SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY SYSTEMS THAT COMPLY WITH AS A MINIMUM OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL DEVELOP AND IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.
- ALL WORK TO BE DONE UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH TOED WATER UTILITIES DIVISION - RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS AS PUBLISHED IN THE 11-08-2015 TEXAS REGISTER, NOVEMBER 2015 OR ANY REVISIONS THEREOF.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM THE RECORDS AVAILABLE AND ARE NOT GUARANTEED, BUT SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR MAINTENANCE AND PROTECTION OF THE EXISTING UTILITIES DURING CONSTRUCTION, EVEN IF THEY ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE WITH OWNER, ARCHITECT, ENGINEER AND ANY OTHER PARTY THAT HAS THE POTENTIAL TO UNDER MECHANICAL AND PLUMBING SERVICES TO AREA OUTSIDE OF THIS CONTRACT. ALL SHUT-DOWNS OR TIE-INS RELATING TO THESE SYSTEMS SHALL BE SCHEDULED AND SUBMITTED IN WRITING TO BE APPROVED BY THE OWNER, ARCHITECT, ENGINEER. CONTRACTOR SHALL SUBMIT IN WRITING A SCHEDULE FOR PHASING OF CONSTRUCTION THAT INDICATES AREAS OF FIRST PRIORITY DURING EACH PHASE AND ANTICIPATED COMPLETION TIMES. SCHEDULES SHALL BE SUBMITTED A MINIMUM OF ONE WEEK PRIOR TO COMMENCING WORK. OWNER, ARCHITECT AND ENGINEER SHALL REVIEW THESE SCHEDULES AND NOTIFY CONTRACTOR OF ACCEPTANCE PRIOR TO COMMENCEMENT OF WORK.
- BEFORE YOU DIG ALL EXISTING UTILITIES: WATER, SEWER, GAS, FIRE LINE, ELECTRICITY, TELEPHONE, CABLE, IRRIGATION LINES, SHALL BE LOCATED AND CLEARLY MARKED IN ORDER TO AVOID UNNECESSARY SHUT-DOWNS AND EMERGENCIES.
- WHENEVER POWER POLES ARE ADJACENT TO THE PROPOSED WATER/SEWER LINE, THE CONTRACTOR SHALL PROVIDE PROPER SHORING OR OTHER SUITABLE SUPPORT DURING CONSTRUCTION OF THE WATER/SEWER LINE. METHODS MUST BE APPROVED BY THE UTILITY COMPANY MAINTENANCE DEPARTMENT.
- WHEN WATER LINES ARE INSTALLED IN THE VICINITY OF SEWER MAINS, SUCH INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH SECTION 290.44 (WATER DISTRIBUTION) AS PUBLISHED IN "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS" BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (NOVEMBER, 2012 OR ANY REVISION THEREOF).
- CONTRACTOR SHALL INSTALL DRAINAGE FLOW SANITARY SEWERLINE TO THE LINES AND GRADES AS INDICATED IN THE PLANS AND PROFILES.
- CONTRACTOR SHALL CONTACT UTILITY COMPANIES IF MODIFICATIONS OF DEPTH AND/OR COURSE OF

- EXISTING UTILITY LINES ARE REQUIRED TO COMPLY WITH THE DESIGN OF THE PROPOSED SANITARY SEWER/WATER LINE.
- CONTRACTOR SHALL NOTIFY LANDOWNERS 24 HOURS IN ADVANCE OF BLOCKING DRIVEWAYS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SAFE DRIVEWAY ACCESS FOR LANDOWNERS.
- LATERAL SERVICE CONNECTIONS INDICATED ARE APPROXIMATE.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND GRADE OF THE UTILITIES WITH THE UTILITY COMPANIES WELL AHEAD OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR PROTECTION OF SAME DURING CONSTRUCTION.
- WHEN SEWER LINES ARE INSTALLED IN THE VICINITY OF WATER MAINS, SUCH INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH 30 TAC SECTION 317.13 (APPENDIX E SEPARATION DISTANCES).
- ALL GATE VALVES TO OPEN COUNTER - GLOOMER?
- CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ORIGINAL OR BETTER CONDITION ANY DAMAGE DONE TO EXISTING FENCES, LAMPS, CONCRETE ISLANDS, CURBS, OR CONCRETE DRIVEWAYS. NO SEPARATE PAY FEE.
- DUO TO FEDERAL REGULATIONS TITLE 49, PART 192.181, ACCESS TO GAS VALVES MUST BE MAINTAINED AT ALL TIMES. CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
- CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES, MARKS, ETC. IF ANY ARE DESTROYED OR REMOVED BY THE CONTRACTOR OR HIS EMPLOYEES, THEY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL FURNISH THE ENGINEER WITH AN AS-BUILT PLAN INDICATING THE LOCATION AND LENGTH OF ALL WATER AND SEWER SERVICE CONNECTIONS (BY STATION AND ELEVATIONS).
- UTILITY TRENCH COMPACTION SHALL BE 90% PROCTOR AND PROOF-ROLLED PRIOR TO UTILITY ACCEPTANCE.
- CONTRACTOR SHALL NOT COMMENCE ANY CLEARING/CONSTRUCTION IN TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) RIGHT-OF-WAY UNTIL THE PROPER TxDOT REPRESENTATIVE HAS BEEN CONTACTED AND APPROVAL OF NOTICE OF PROPOSED INSTALLATION (UTILITY LINE ACROSS/ALONG TxDOT RIGHT-OF-WAY) HAS BEEN RECEIVED BY THE PROPER AUTHORITY AND IT HAS BEEN RECEIVED BY THE OWNER/ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADVISE THE TxDOT REPRESENTATIVE IN THE AREA OF THE CONSTRUCTION SCHEDULE AT (409) 445-3000, 2100 W. 3RD, ST IN PEOCS, TX.
- ALL CONCRETE SHALL BE CLASS A (3000 PSI AT 28 DAYS) AND MEET MATERIAL REQUIREMENTS OF "CONCRETE WORK" OF THE SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED.
- ALL REINFORCING STEEL SHALL BE GRADE 60 AND MEET THE MATERIAL AND CONSTRUCTION REQUIREMENTS OF REINFORCING STEEL OF THE SPECIFICATIONS.
- CURING SHALL BE MADE BY THE IMPERVIOUS MEMBRANE METHOD AND SHALL MEET THE MATERIAL AND

- CONSTRUCTION REQUIREMENTS OF "MEMBRANE CURING" OF THE SPECIFICATIONS OR CITY CODES OR AS DIRECTED BY THE ENGINEER.
- CONTRACTOR IS REQUIRED TO ATTEND A PRE-CONSTRUCTION CONFERENCE AND SHALL NOTIFY THE ENGINEER 24 HOURS PRIOR TO CONSTRUCTION AND PRIOR TO INSPECTION REQUESTS FOR SUBGRADE, BASE, AND CONCRETE PLACEMENT.
- THE ENGINEER WILL STATE THE STREETS ONE TIME ONLY AND ESTABLISH BENCHMARKS. ANY CONSTRUCTION STAKES REMOVED OR DESTROYED BY THE CONTRACTOR OR HIS EMPLOYEES WILL BE REPLACED, IF REQUESTED, AT THE CONTRACTOR'S EXPENSE.
- LABORATORY TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT TESTING LABORATORY, AT THE CONTRACTOR'S EXPENSE. THE FOLLOWING TEST SCHEDULE SHALL BE ADHERED TO:
 - SUBGRADE MOISTURE AND DENSITY TEST AT THE RATE OF ONE PER EACH BLOCK; A MINIMUM OF 6 DENSITY TESTS FOR THIS PROJECT OR AS DIRECTED BY THE ENGINEER.
 - FLEXIBLE BASE (P.L.L.) AND GRADATION OF MATERIAL USED, MOISTURE AND DENSITY TEST ON SAME SPACING AS SUBGRADE.
 - COMPACTED FILL (P.L.) SHALL BE A MINIMUM OF 9 TESTS, TESTING SHALL BE PROVIDED FOR 12" LIFT, 1 TEST PER 500 SQUARE FEET OF STREETS.
 - CONCRETE - ONE CONCRETE COMPRESSIVE STRENGTH TEST (2 CYLINDERS EACH) FOR EACH DRAINAGE STRUCTURE AND TWO TESTS FOR EVERY 800 LINEAR FEET OF CURB WORK.
- ALL TESTING IS THE CONTRACTOR'S RESPONSIBILITY AND COST. COPIES OF ALL TEST RESULTS SHALL BE FURNISHED TO THE ENGINEER.
- PROOF ROLLING - ALL SUB-BASE AND EACH LIFT OF BASE MATERIAL SHALL BE PROOF-ROLLED TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT AND OPERATORS FOR PROOF-ROLLING, SORT AND YIELDING AREAS DISCOVERED SHALL BE CORRECTED BY THE CONTRACTOR PRIOR TO PRIME COAT AND TWO SURFACE TREATMENT APPLICATIONS.
- ALL PROPOSED DRIVEWAYS, REGARDLESS OF MATERIAL OR CONSTRUCTION, SHALL BE PROVIDED WITH A GRADED CONNECTION TO THE NEW STREET, NO SEPARATE PAYMENT.
- CONCRETE LAY-DOWN CURBS SHALL BE PROVIDED AT EACH ALLEY OPENING AND FOR EACH DRIVEWAY. SEE DETAIL.
- THE CONTRACTOR SHALL NOT HAVE MORE THAN 3 BLOCKS OF CURB WORK UNDER WAY AT ANY TIME, NO MORE THAN 3 BLOCKS OF STREETS MAY BE CLOSED FOR CONSTRUCTION (NOT IN THIS CONTRACT).
- FINISH GRADING OF SUBGRADE AND BASE FOR THE CURBS SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

LEGEND

○ OPEN TELEPHONE PEDESTAL	—	BACK OF CURB AND GUTTER
○ OPEN POWER POLE	—	EXISTING SANITARY SEWER LINE
○ OPEN GAS METER	—	EXISTING WATER LINE
○ OPEN WATER METER	—	OVERHEAD LINE
	—	EXISTING FENCE
	—	SANITARY SEWER MANHOLE
	—	GUY LINE
	—	PROPOSED PAVEMENT
	—	EXISTING PAVEMENT

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The seal appearing on this document was authorized by Ramon V. Carrasco, P.E., 95618 on July 22, 2014. Alteration of a sealed document without proper notification to the responsible engineer is an offense under the Texas Engineering Practice Act.



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PECOS, TEXAS

A & E HOUSING
PROPOSED STREET IMPROVEMENTS

GENERAL LAYOUT AND GENERAL NOTES

DESIGN	DRAWN	DATE	PROJECT NO.	SCALE	SHEET #
RVC	RLV	07/22/2014	1041	1"=50'	2