CONSTRUCTION PLANS

FOR THE

OLD ALICE RD. EXISTING WATERLINE RELOCATION PROJECT

BID No. B023-25 PREPARED FOR:

BROWNSVILLE PUBLIC UTILITIES BOARD DATE: JANUARY 2025

BROWNSVILLE PUBLIC UTILITIES BOARD BOARD OF DIRECTORS

CHAIR	ARTHUR "ART" RENDON
VICE-CHAIR	GERARDO MARTINEZ
SECRETARY/TREASURER	DAISY ZAMORA, Ph.D
MEMBER	ALEJANDRO NAJERA
MEMBER	JOSEPH L. HOLLMANN,
MEMBER	ALONZO "AL" VILLARRE
EX-OFFICIO MEMBER	JOHN F. COWEN, JR





PUBLIC UTILITIES BOARD

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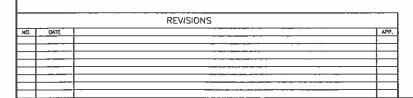
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GENERAL NOTES

- CONTRACTOR TO SUBJECT WORKPLAN DETAILING SEQUENCE OF CONSTRUCTION FOR REVIEW AND APPROVAL BY THE BROWNSYLLE PUBLIC UTILITIES BOARD PRIOR TO BEGINNING OF CONSTRUCTION. WATER AND WASTEWATER SERVICES SHALL NOT BE INTERRUPTED BETWEEN THE HOURS OF 5:30 PM AND 8:00 A.V.
- CONTRACTOR TO GIVE A MINIMUM OF 48 HOURS NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILIDES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK.
- 3. NO SEPARATE PAY FOR ITEMS REQUIRED BY NOTES ON THIS SHEET,
- 4. BLASTING IS NOT PERMITTED ON THIS PROJECT.
- ALL CONSTRUCTION OPERATIONS TO BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFERY AND HEALTH ADMINISTRATION. COPIES OF OSHA STANDARDS WAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE.
- 6. ELECTRICAL LINES ARE LOCATED IN THE PROJECT AREA. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO STATE LAW (VERNO ANNOTATED TEXAS STATUTES, ARTICLE 1436 (C)) CONCERNING CONSTRUCTION OPERATIONS IN THE VICINITY OF ELECTRICAL LINES AND THE NEED FOR EFFECTIVE PREGALITIONARY MEASURES.
- THESE PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATINES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE REGISTERED PROFESSIONAL ENGAGERS) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS INTAIN WAY NOW OR HEREOTTER BE INCORPORATED IN THE WORK, THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS.
- ANY CHANGES OR REVISIONS TO THESE PLANS MUST FIRST BE SUBMITTED TO THE BROWNSVILLE PUBLIC UTILITIES BOARD FOR REVIEW AND WRITTEN APPROVAL.
- EXISTING PAYING, BUILDING, AND OTHER ITEMS SHOWN ON PLANS NOT SPECIFICALLY RELATED TO THE WORK OF THE CONTRACTOR ARE
 FOR INFORMATION ONLY.
- 10. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING EXCESS AND WASTE MATERIA INCLUDING WETHOOS OF HANDLING AND DISPOSAL EXCESS SQIL, ROCK, DEBRIS, EQUIPMENT, AND SPOIL MATERIAL NOT SPECIFICALLY LABELED FOR SALVAGE IN THIS PROLECT'S DRAWINGS SHALL BE REQUET THE PROPERTY OF THE CONTRACTOR AND SHALL BE REQUED FROM THE PROLECT JOBSTE AND LECALLY DISPOSED OF AT THE CONTRACTOR'S EXPENSE, CONTRACTOR SHALL VIST THE TEXAS COMMISSION ON EMPRONEMENTAL OLALITY (TECO)'S WESSITE AND CALL TECO FOR CURRENT WASTE DISPOSAL COMPULANCE CONDINCT. INCLUDING CURDANCE, ON CURRENT WASTE DISPOSAL SITES, CONTRACTOR SHALL VIST THE TEXAS CONTRACTOR OF THE CONTRACTOR SHALL VIST THE TEXAS CONTRACTOR OF THE CONTRACTOR SHALL VIST THE TOTAL OF THE CONTRACTOR SHALL VIST THE DISPOSAL SITES. CONTRACTOR SHALL VIST THE ENGINEET OF THE CONTRACTOR SHALL VIST THE ENGINEET OF THE ENGINEET OF THE CONTRACTOR SHALL VIST THE ENGINEET OF THE CONTRACTOR SHALL VIST THE CONTRACTOR SHALL VIST THE ENGINEET OF THE CONTRACTOR SHALL VIST THE CONTRACTOR SHALL VIST THE CONTRACTOR SHALL VIST THE CONTRACTOR SHALL VIST THE ENGINEET OF THE CONTRACTOR SHALL VIST THE CONTRACT OF THE CONTRACTOR SHALL VIST THE ENGINEET OF THE CONTRACTOR SHALL VIST THE CONTRACTOR SHALL VIST THE ENGINEET OF THE CONTRACTOR SHALL VIST THE CONTRACTOR SHALL VIST THE ENGINEET OF THE CONTRACTOR SHALL VIST THE ENGINEET OF THE CONTRACTOR SHALL VIST THE CONTRACT ASSESSMENT AND TESTING TO DETERMINE ANY SPECIAL HANDLING AND DISPOSAL REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME ACQUANTED WITH CURRENT WASTE HANDLING AND DISPOSAL LAWS AND REGULATIONS
- 11. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE ENVIRONMENTAL LAWS
- 12. CONTRACTOR TO WANTAIN ACCESS TO PUBLIC AND PRIVATE FACILITIES, RESIDENCES, AND BUSINESSES DURING CONSTRUCTION. CONTRACTOR SHALL MAKE ALL EFFORTS TO KEEP DRIVEWAYS OPEN AND ACCESSIBLE DURING CONSTRUCTION. CONSTRUCTION ACTIVITIES TO BE COORDINATED WITH OWNERS REPRESENTANCE AND THE BROWNSHILLE PUBLIC UTILITIES BOARD. THE CONTRACTOR SHALL COORDINATE ALL DRIVEWAY CLOSURES WITH THE PROPERTY OWNER.
- 13. THE CONTRACTOR SHALL COORDINATE TEMPORARY RELOCATION OF MAILBOXES WITH THE BROWNSHILE POSTMASTER, FINAL LOCATION SHALL BE IN ACCORDANCE WITH THE LOCAL POST OFFICE REQUIREMENTS AT CONTRACTOR'S EXPENSE.
- 14. CONTRACTOR TO TAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF THESE CONSTRUCTION OF OPERATIONS ARE TO BE REPAIRED IMMEDIATELY BY THE CONTRACTOR TO THE PRE-EXISTING CONDITION OR BETTER AT NO ADDITIONAL COST TO OWNER.
- 15. LOCATION OF EXISTING UTILITIES SHOWN ON PLANS WAS COMPILED FROM RECORD INFORMATION. NO WARRANTY IS IMPLIED AS 10 THE ACTUAL LOCATION OF EXISTING UTILITIES. CONTRACTOR TO FIELD VERIEY LOCATIONS OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE FOLLOWING:

1=800=DIG=TESS (811) BROWNSVILLE ENGINEERING DEPT 1-600-545-6005 BROWNSVILLE IRRIGATION DISTRICT 956-542-2260

- 18. LOCATIONS AND DEPTHS SHOWN FOR EXISTING URLITES ARE APPROXIMATE, IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXACT LOCATIONS AND DEPTHS OF ALL APPLICABLE LINES, AND TO REPAIR ANY DAMAGES MADE AS A RESULT OF PROJECT CONSTRUCTION, INCLUDING UTILITIES NOT SHOWN ON THESE DIMARKES.
- CONTRACTOR TO COORDINATE INTERRUPTIONS OF ALL UTILITIES AND SERVICES WITH APPLICABLE UTILITIES COMPANY OR COMPANIES. ALL WORK TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE UTILITIES COMPANY OR AGENCY INVOLVED. (NO SEPARATE PAY).
- 18. WHEN NOT LOCATED OR INCORRECTLY LOCATED UNDERGROUND PIPING OR A BREAK IN A LINE OR OTHER UTILITIES AND SERVICES ARE ENCOUNTERED DURING SITE WORK OPERATIONS, CONTRACTOR TO NOTIFY THE APPLICABLE UTILITIES COUPMANY IMMEDIATELY TO OBTAIN ORECTION, CONTRACTOR TO COOPERATE WITH THE APPLICABLE UTILITIES COUPMAN IN MAINTAINIC ACTIVE SERVICES IN OPERATION.
- 19. CONTRACTOR TO ASSURE THAT ALL CONSTRUCTION PERBITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK, PERBITS ARE TO BE OBTAINED AT THE CONTRACTOR'S EXPENSE.
- 20. OWNER, ENGINEER, CONTRACTOR, REPRESENTATIVES OF ALL UTILITIES COMPANIES, AND A REPRESENTATIVE FROM THE TESTING LAB TO ATTEND PRE-CONSTRUCTION CONFERENCE PRIOR TO START OF CONSTRUCTION.
- 21. CONTRACTOR TO LOCATE, PROTECT, AND WAINTAIN BENCHWARKS, WONUMENTS, AND CONTROL POINTS. CONTRACTOR TO RE-ESTABLE DISTURBED OR DESTROYED ITEMS BY A REGISTERED PUBLIC SURVEYOR IN THE STATE OF TEXAS AT THE CONTRACTOR'S EXPENSE.
- 22. MATERIAL STORAGE, LAYDOWN, AND STACING AREAS TO BE ON SAME SIDE OF ROADWAY AS ADJACENT WORK ZONE, STACING AREAS ARE NOT TO BE USED FOR STOCKPILING SPOIL.
- 23. SPOIL MATERIAL SHALL NOT BE MOUNDED MORE THAN 16" HIGH ADJACENT TO DRIVEWAYS.
- ANY DAMAGE CAUSED TO EXISTING PAYERENT, CURBS, SIDEWALKS, ETC., SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION
 OF THE CITY OF BROWNSHILLE ENGINEERING DEPARTMENT PRIOR TO ACCEPTANCE OF THE PROJECT.
- ALL JOINTS TO MATCH EXISTING PAVEMENT SMALL BE SAW CUT. PAVEMENT PATCHING SHALL BE IN ACCORDANCE WITH BROWNSVILLE PUBLIC UTILITIES BOARD STANDARDS.
- 26. ALL SIDEWALKS TO BE CUT OR PATCHED TO COMPLY WITH AMERICANS WITH DISABILITIES ACT REQUIREMENTS.
- 27. CONTRACTOR SHALL NOTIFY THE BROWNSYLLE PUBLIC UTILITIES BOARD ENGINEERING DEPARTMENT AT LEAST 48 HOURS BEFORE DEMOLITION OF, OR CONNECTION WITH, ANY CITY UTILITIES OR STREET.
- 28. THE CONTRACTOR SHALL GIVE THE BROWNSYNLLE PUBLIC UTILITIES BOARD 24 HOUR ADVANCE NOTICE PRIOR TO PLACEMENT OF ANY CONCRETE, TO PERMIT THE REVIEW OF FORMS, REINFORCING STEEL PLACEMENT, AND OTHER PREPARATIONS.
- 29. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST CITY OF BROWNSWILLE PUBLIC UTILITIES BOARD STANDARD SPECIFICATIONS.
- 30. BURNING OF TREES, BRUSH OR OTHER VEGETATIVE WATTER ON THE PROJECT SITE IS NOT PERMITTED
- 31. NO TREES SHALL BE REMOVED WITHOUT PERWISSION OF THE OWNER OR ENGINEER, UNLESS OTHERWISE NOTED.
- 33. CONTRACTOR TO ADVISE OWNER INMEDIATELY, VERBALLY AND IN WRITING, OF ANY FUEL OR TOXIC MATERIAL SPILLS ONTO THE PROJECT/CONSTRUCTION AREA AND THE ACTIONS TO BE TAKEN TO REWEDY THE PROBLEM.
- 34. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF THEIR FLIELS, MATERIALS, AND CONTAMINATED EXCAVATIONS IN A LECALLY APPROVED MANNER.
- 35. CONTRACTOR IS RESPONSIBLE FOR PROVIDING & MAINTAINING SANITARY FACILITIES ON THIS PROJECT FOR EMPLOYEES.
- 36. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, ALL CONCRETE IS TO BE CLASS "C" (4000 PSI-28 DAYS), AND ALL REINFORDING STEEL TO BE ASTM AB15 GRADE 60.
- 37. PROJECT MANHOLE CASTINGS OF ALL TYPES SHALL BE BROUGHT TO FINISHED GRADE BY THE CONTRACTOR.
- 38. PRIOR TO ACCEPTANCE OF THE PROJECT, ALL GRADED AND DISTURBED AREAS ARE TO BE RE-VEGETATED IN A CASE BY CASE BASIS.
- 39. APPROPRIATE SHORING AND BRACING EQUIPMENT SHALL BE USED WHERE TRENCHES ARE DEEPER THAN FIVE (5') FEET OR WHERE CONDITIONS WARRANT, AND SHALL COUPLY WITH OSHA REGULATIONS.

- MAXIMUM LENGTH OF OPEN TRENCH TO BE 60', OR AS DIRECTED BY THE OWNER.
- 41. HO CONSTRUCTION OPERATIONS RELATIVE TO INSTALLATION OF UTLITIES, INCLUDING STOCKPLING OF EXCANATED MATERIALS, SMULL GE PERMITTED WITHIN THE LIMITS OF EXISTING PARTMENTS CARRYING TRAFFIC ON STATE HIGHW SHOULDERS ADMICENT THERETO, UNLESS SPECIFICALLY AUTHORIZED BY THE TEXAS GEPATIMENT OF TRANSPORTATION.
- 43. ALL DMENSIONS GIVEN ARE TO THE CENTERLINE OF PIPE, UNLESS OTHERWISE NOTED, DO NOT ATTEMPT TO SCALE DIMENSIONS ROWS THESE DRAWINGS. ALTHOUGH DRAWINGS ARE TO SCALE, THE ENGINEER SHOULD BE CONSULTED III DIMENSIONING IS UNCLEAR OR INSUFFICIENT.
- PRE-CONSTRUCTION PHOTOGRAPHS SHALL BE TAKEN THAT SHOW EXISTING CONDITIONS OF THE SITE AND ADJUNING STRUCTURES TO REMAIN. PHOTOS SHALL INCLUDE DAMAGE TO FINISH SURFACES THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSEO BY D'EMOLITION OPERATIONS.
- 45. THE CONTRACTOR IS REQUIRED TO DISPOSE OF ALL MATERIALS AND PAY FOR ALL FEES RELATING TO DISPOSAL OF ALL MATERIAL IN COMPLIANCE WITH TICED AND EPA RULES AND REGULATIONS.
- 46. EXISTING BUILDINGS, PAVEWENTS, SIDEWALKS, CURBS, DRIVEWAYS, ELECTRICAL TRANSFORMERS, DITCHES, DRAINAGE PIPES AND STRUCTURES, FENCES, LAWNS, TREES, BUSNES, SIGNS, POWER POLES, ETC, TO REMAIN SHALL BE PROTECTIOR FROM DAMAGE BY THE CONTRACTOR ANY DAMAGE. DURING CONSTRUCTION SHALL BE RESTORED, RECONSTRUCTED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE, ALL DAMACES SYALL BE RESTORED OR REPLACED ID AT LEAST THEIR ORIGINAL CONDITION OR BETTER OR AS REQUIRED OF A STATE OF

WATER AND WASTEWATER NOTES

- 1. ALL PIPE BEDOING MATERIAL SHALL CONFORM TO DETAILS.
- 2. ALL CONCRETE BENCHES FOR WASTEWATER MANHOLES TO BE COATED PER MATERIALS AND PROCEDURES SPECIFIED IN CONTRACT SPECIFICATIONS. MINIMUM THICKNESS TO BE 80 MILS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING AND RECONNECTING ANY BROWNSVILLE PUBLIC UTILITIES BOARD WATER AND WASTEWATER LINES, SERVICE TAPS, AND STORM SEWER WHERE REQUIRED. CONTRACTOR SMALL BE RESPONSIBLE FOR COORDINATION OF ANY REQUIRED RELOCATION OF GAS, CABLE, TELEPHONE OR ELECTRIC LINES WITH THE APPROPRIATE UTILITIES OWNER.
- 4. PIPE MATERIAL FOR WATER MAINS SHALL BE PYC ANYMA C900 DR.—18. PIPE MATERIAL FOR PRESSURE WASTEWATER MAINS SHALL BE PYC ANYMA C-800 DR.—18. PIPE MATERIAL FOR GEAVITY WASTEWATER MAINS SHALL BE PYC ASTM 03034, SDR 26 OR PS 119. UNLESS OTHERMSE NOTED ON THE PLANS AND SPECIPICATIONS.
- 5. WATER AND WASTEWATER LINES TO BE LAID WITH A MINIMUM COVER OF 48-INCHES BELOW FINISH GRADE UNLESS OTHERWISE NOTED.
- 8. ANY POTABLE WATERLINE WHICH MUST BE RELOCATED SHALL BE COORDINATED WITH BROWNSVILLE PUBLIC UTILITIES BOARD.
- THE CONTRACTOR SHALL PERFORM QUALITY TESTING FOR THE WATER AND WASTEWATER SYSTEM INSTALLED AND AND SHALL PROMDE ALL EQUIPMENT (INCLUDING PUMPS AND CAUCES), SUPPLIES AND LIBOR RECESSARY TO PERFORM THE TESTS A HIS EXPENSE. BROWNSYALE P.U.B. TO BE COVEN 48 HRS NOTICE PRIOR TO ALL TESTING AND SMALL BE MONITORED BY BROWNSYALE PUB PERSONNEL. TESTING IS TO BE DONE IN ACCORDANCE WITH B.P.U.B. STANDARD.
- CONTRACTOR SHALL KEEP 9 FT. MIN. SEPARATION BETWEEN SANTARY SEWER LINES AND WATERLINES. 9 FT. MIN. SEPARATION BETWEEN SANTARY SEWER LINES AND WATER METERS.
- 11, CONTRACTOR SHALL RESTORE ALL ORAINAGE SHALES TO ORIGINAL CONDITIONS MATER SERVICE REPLACEMENT OR REPAIR BUBSIOLARY TO OTHER LINE (TEO'S PRICE PER L.F. (LINEAR FOOT) OF SEWER LINE, NO SEPARATE PAY.

TESTING NOTES

- THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM QUALITY TESTING FOR ALL WASTEWATER PIPE INSTALLED AND PRESSURE PIPE HYDROSTATIC TESTING OF ALL WATER LINES CONSTRUCTED AND SHALL PROVIDE ALL COUPMENT (INCLUDIN) PUMPS AND GAMES), SUPPLIES AND LAGON RECESSARY TO PERFORM THE TESTS, QUALITY AND PESSENTE TESTANG SHALL BE MONITORED BY BROWNSVILLE PUB PERSONNEL TESTING IS TO BE DONE IN ACCORDANCE WITH BPUB STANDARDS AND TICCO REGULATIONS.
- SOM, DENSITY TESTS AND RELATED SOM, AMALYSIS TESTS TO BE ACCOMPLISHED BY AN INDEPENDENT LABORATORY UNDER CONTRACT WITH THE OWNER, TESTS WHICH SHOW UNSATISFACTORY RESULTS ARE TO BE REPEATED AT THE EXPENSE OF THE
- DENSITY TESTING OF COMPACTED SUBGRADE MATERIAL FOR FIRST COURSE, AND SECOND COURSE OF COMPACTED BASE SHALL BE MADE AT ALL DRIVENAYS AND INTERSECTING STREETS. IN ADDITION, ONE (1) DENSITY TEST PER LIFT PER FIVE HUNDRED (500) FEET OF INSTALLED PIPELINE SHALL BE CONDUCTED.

SITE GRADING NOTES

- 1. EROSION CONTROL MEASURES MUST BE INSTALLED PRIOR TO DISTURBING EXISTING GRADE WITHIN ANY WORK AREA, SUCH MEASURES SHALL REMAIN IN PLACE UNTIL WORK IS COMPLETE AND/OR GRASS IS ESTABLISHED, AS DIRECTED BY OWNER
- . CONTRACTOR TO CONTROL DUST CAUSED BY THE WORK AND COMPLY WITH POLLUTION CONTROL REGULATIONS OF COVERING AUTHORITIES. (NO SEPARATE PAY.)
- J. CONTRACTOR IS RESPONSIBLE FOR CLEANING MUD AND/OR DIRT TRACKED ONTO EXISTING STREETS BY MS WORKMEN'S. SUPPLIER'S, OR SUBCONTRACTOR'S VEHICLES. STREETS WUST BE CLEANED WITHIN 2 HOURS OF WHEN THE TRACKING. OCCURS (NO SEPARATE PAY.)
- 4. EXCEST EXCAVATED MATERIAL TO BE STOCKPILED IN DESIGNATED AREA AS SHOWN ON PLANS OR AS DIRECTED BY THE OWNER, REMFORED FILTER FABRIC FENCE TO BE INSTALLED ABOUND STOCKPILE ON DOWNSTREAM SIDE AND BOTH SIDES ADJACENT TO THE DOWNSTREAM SIDE, STOCKPILES ARE NOT TO TABLE OR PORD WATER. TOPSIC TO BE STOCKPILED SEPARATELY, ALL EXCESS EXCAVATED MATERIAL IS TO BE REMOVED FROM THE SITE, CONTRACTOR TO NOTIFY TICED AND THE OWNER'S REPRESENTATIVE OF LOCATION OF DISPOSAL BEFORE WATERIAL IS REMOVED.

STORMWATER NOTES

- THE CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING A T.C.E.O. APPROVED SWPPP AND BE RESPONSIBLE FOR THE IMPLEMENTATION, MAINTENANCE, AND INSPECTION OF SWPPP CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, EROSION AND SEGMENT CONTROLS, STORM WATER MANAGEMENT PLANS, WASTE COLLECTION AND DISPOSAL, OFF-SITE VEHICLE TRACKING, AND OTHER CONSTRUCTION PRACTICES.
- DURING CONSTRUCTION, SILT FENCING AND/OR HAY BALES DIKES SHALL BE ERECTED AND MAINTAINED TO MINIMIZE ESCAPE OF SEDIMENT WITO STORM SEVER SYSTEM AND RECEIVING WATERS. THE CONTRACTOR SHALL INSTALL EROSIGN CONTROL DENCES WHERE NEEDED
- DURING CONSTRUCTION. THESE TEMPORARY EROSION AND SEDIMENTATION CONTROLS TO REMAIN IN PLACE UNTIL THE DISTURBED AREAS ARE RE-VEGETATED AND THE AREAS HAVE BECOME PERMAKENTLY STABILIZED. ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS TO BE INSPECTED PERIODICALLY FOR DAMAGE CAUSED BY CONSTRUCTION CTMTIES AND FOLLOWING EVERY RAINFALL. DAMAGED OR OBSTRUCTED CONTROLS TO BE REPAIRED/REPLACED AS ECCESSARY TO MAINTAIN THEIR PROPER OPERATION.
- THE CONTRACTOR SHALL SELECT A SPECIFIC LOCATION TO BE THE STACING FOR THE PROJECTS OPERATIONS, WHICH INCLUDES A CONTRACTOR WILL DESIGNATE THIS AREA FOR EQUIPMENT CLEANING, MANTENANCE, REPAIR, AND STORAGE, ALL CONTRACTORS AND SUBCONTRACTIONS SHALL UTILIZE SUCH AREA FOR THOSE PURPOSES, THIS AREA WILL BE LOCATED SUCH THAT HARMFUL SUBSTANCES WILL NOT BE ALLOWED IN LEACH OR RUN OFF-SITE. A STRICT POLICY WILL BE ENACTED WHICH WILL MINIMIZE VEHICLE TRAFFIC FROM

TRAFFIC CONTROL NOTES

- 1. CONTRACTOR SHALL DEVELOP AND SUBMIT A TRAFFIC CONTROL PLAN WHICH WILL SHOW BOTH DAY AND NIGHT TIME OPERATIONS FOR THE INSTALLATION OF THE UTILITIES IMPROVEMENTS IN CONFORMANCE WITH THE CIPROTROL DEVICES FOR STREETS AND INGENIES, AND INSIGHATION STANDARDS. CONTRACTOR IS TO SUBMIT A TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE CITY OF BROWNSYLLE TRAFFIC DEPARTMENT AND BROWNSYLLE PUBLIC UTILITIES BOARD PRIOR TO START OF CONSTRUCTION, ANY WORK PERFORMED WITHIN A TOOR OFFOR OF WAY SHALL REQUIRE A TXOOT PERMIT FOR WORK, THE CONTRACTOR SHALL, SUBMIT A TRAFFIC CONTROL PLAN TO TXDOT FOR APPROVAL.
- THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN BARRICAGES, WARNING SIGNS. AND OTHER TRAFFIC MANUAL OF DEVICES OF THE SIZE AND TYPE SPECIFIED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR AS DIRECTED BY THE ENGINEER OR HIGHWAY DEPARTMENT OFFICIAL.
- THE CONTRACTOR SHALL INSPECT AND PROPERLY MAINTAIN TRAFFIC CONTROLS EACH EVENING AND DURING THE WEEKEND IN ADDITION TO NORMAL DATTILE WORKING HOURS, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH INSTALLATION AND MAINTENANCE OF TRAFFIC CONTROLS.
- 4. THE CONTRACTOR SHALL DESIGNATE ONE PERSON WHO WILL BE ACCESSIBLE TO THE OWNER ON A 24-HOUR BASIS AND WILL BE RESPONSIBLE FOR THE MAINTENANCE OF THE BARRICADES AND THE WORK SITE.
- 5. TRAFFIC INTERRUPTION SHALL BE COORDINATED WITH THE TEXAS DEPARTMENT OF TRANSPORTATION, THE BROWNSWILLE PUBLIC WITHTES BOARD, FIRE AND POUCE DEPARTMENTS, AND THE ENGINEER AT LEAST 24 HOURS IN ADVANCE OF SUCH INTERRUPTIONS.
- 6. TRAFFIC CONTROL PLAN SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE SUBSIDIARY TO ALL DTHER BID ITEMS.

PROJECT CONSTRUCTION SIGN

ONE OR MORE CONSTRUCTION SIGNS AT PROJECT SITE OR NEAR THE CONSTRUCTION SITE PER THE FOLLOWING GUIDANCE AND ATTACHED SPECIFICATIONS.

- THE GENERAL CONTRACTOR AS DIRECTED BY THE OWNER SHALL FURNISH AND INSTALL A CONSTRUCTION SIGN(S) FOR IDENTIFICATION OF THE OLD ALICE RD. EXISTING WATERLINE RELOCATION PROJECT, THE SIGN SHALL BE CONSTRUCTED AS SHOWN ON DETAILS SHEET. NO SEPARATE PAY.
- IF THE CONTRACTOR CHOOSES TO ERECT A SEPARATE SIGN, IT MAY BE ATTACHED TO OR ADJACENT TO THE PROJECT SIGN, BUT NO OTHER CONTRACTOR OR SUBCONTRACTOR OR MATERIAL SIGNS WILL BE PERMITTED ON THE CONSTRUCTION PROJECT SIGN.
- THE CONSTRUCTION SIGN WILL BE INSTALLED PRIOR TO ANY CONSTRUCTION AT A LOCATION WHICH IS NEAR THE PROJECT SITE AND WITHIN PUBLIC VIEWING.
- 4. THE SIGN (PORTABLE MOUNT PERMISSIBLE) WALL BE CONSTRUCTED OF A 40 FEET BY 4.0 FEET EXTERIOR TYPE HIGH DENSITY OVERLAD PLYMODO OF OTHER SIGN MATERIAL OF EQUIVALENT QUALITY WITH ROUNDED CORNERS AND PRE-PUNCHED HOLES TO INSURE A HASSLE-FREE INSTALLATION.
- 5. THE SIGN SHALL BE CONSTRUCTED WITH BLACK VINYL LETTERING ON A REFLECTIVE WHITE BACKGROUND AS SHOWN ON DETAIL SHEET.
- LETTERING WILL BE OF PROFESSIONAL QUALITY AND ALL LETTERING WILL BE IN PROPORTION TO THE SIZES SHOWN AND ALIGNED ON THE SIGN.
- 7. INFORMATION SPECIFIED ON THE ATTACHED DETAIL WILL BE DISPLAYED ON THE SIGN
- 8. THE SIGN WILL BE MAINTAINED IN GOOD CONDITION BY THE CONTRACTOR UNTIL COMPLETION OF THE
- 9. THE SIGN WILL BE RÉMOVED WHEN THE CONSTRUCTION IS COMPLETÉ.

SPECIAL NOTE:

PROJECT CONSTRUCTION MUST BEGIN NO LATER THAN:

APRIL 1, 2025

DURATION OF PROJECT SHALL BE 45 CALENDAR DAYS.

OLD ALICE RD. EXISTING WATERLINE RELOCATION PROJECT

UTILITY OWNER CONTACT:

BROWNSVILLE PUBLIC UTILITIES BOARD (956) 983-6100

CONTRACTOR CONTACT:

CONTRACTOR COMPANY PHONE NUMBER

1425 B Browns 1-8 Water

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GENERAL REQUIREMENTS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAINING HIS EMPLOYEES AND SUBCONTRACTORS IN THE RECOGNITION AND AVOIDANCE OF UNSAFE CONDITIONS, AND IN THE REGULATIONS AND HAZARDS WHICH APPLY TO THE AREA IN WHICH THE WORK WILL TAKE PLACE.
- 2. ALL SAFETY EXPOSURES OR VIOLATIONS SHALL BE RECTIFIED IMMEDIATELY BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROTECTION OF PERSONS AND PROPERTY, AND FOR PROVIDING SAFE W-RKING CONDITIONS THROUGHOUT THE WORK PROGRESS. ALL AREAS ADJACENT TO THE CONSTRUCTION AREA OR AFFECTED BY THE CONSTRUCTION MUST BE PROTECTED FROM DAMAGE, CLEANED, AND RESTORED TO THE ORIGINAL CONDITION, AT NO ADDITIONAL EXPENSE TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL CLEARANCES AND PERMITS. AS NECESSARY, PRIOR TO THE COMMENCEMENT OF THE WORK.
- WORK AREAS SHALL BE KEPT, AT ALL TIMES, FREE OF DEBRIS AND NON- HAZARDOUS MATERIAL TO THE SATISFACTION OF THE PROJECT COORDINATOR. ALL EXISTING PIPING AND CONDUITS SHALL HAVE TEMPORARY PROTECTION DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE STORAGE OF MATERIALS, PARKING OF VEHICLES, AND RESTRICTIONS OF WORK WITH THE OWNER. AFTER PROJECT COMPLETION, THE SITE SHALL BE CLEANED UP TO ITS CONDITION PRIOR TO THE START OF THE PROJECT TO THE SATISFACTION OF THE OWNER.
- 5. THE SECUENCE OF CONSTRUCTION SHALL BE SCHEDULED AND COORDINATED WITH THE
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS, AND SHALL PERFORM FIELD MEASUREMENTS PRIOR TO FABRICATION AND/OR PURCHASE OF ANY MATERIAL AND SHALL CONTACT THE ENGINEER SHOULD EXISTING CONDITIONS BE DIFFERENT FROM THE DESIGN DRAWINGS FOR THIS PROJECT. CONFLICTS ARISING DUE TO LACK OF COORDINATION SHALL BE THE RESPONSIBILITY AND AT THE EXPENSE OF THE
- THE CONTRACTOR SHALL NOT FABRICATE OR INSTALL MEMBERS AS SHOWN ON THE DRAWINGS IF THERE ARE DISCREPANCIES OR CONFLICTS BETWEEN THE EXISTING CONDITIONS AND THE INFORMATION SHOWN ON THE DRAWINGS, UNTIL SUCH DISCREPANCIES HAVE BEEN RESOLVED. PRIOR TO FABRICATION OR INSTALLATION, THE CONTRACTOR SHALL IMMEDIATELY CALL SUCH DISCREPANCIES OR CONFLICTS TO THE ATTENTION OF THE ENGINEER.
- 8. ANY REQUIRED CHANGES TO THE DRAWINGS RESULTING FROM THE ACCEPTANCE OF ALTERNATES AND/OR SUBSTITUTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBMITTED TO THE OWNER AND THE ENGINEER FOR APPROVAL.
- ALL CONTRACT WORK IN THESE DRAWINGS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING NATIONAL CODES AND STANDARDS:
 - INTERNATIONAL BUILDING CODES, 2024 (IBC2024).

 - AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE).

 OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
 - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).
 - NATIONAL FIRE CODE (NFC).
- 10. ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTING TO THE ENGINEER. ALL SHOP DRAWINGS NOT REVIEWED BY THE CONTRACTOR WILL BE RETURNED WITHOUT REVIEW. AFTER REVIEW HAS BEEN COMPLETED, THE CONTRACTOR SHALL SUBMIT A COPY OF EACH SHOP DRAWING TO THE OWNER, WITH THE APPROVAL SEAL OF THE ENGINEER AND THE CONTRACTOR.
- 11. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS REMOVED WHICH ARE NOT TO BE REINSTALLED OR SALVAGED ON THE PROJECT. DISPOSAL OF MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 12. THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR OR MATERIAL SUPPLIER, IN UEU OF THE PREPARATION OF SHOP DRAWINGS IS FORBIDDEN. SHOP DRAWINGS RECEIVED BEARING THE ENGINEER'S TITLE AND SEAL SHALL BE PROMPTLY REJECTED.
- 13. REFER TO THE SPECIFICATIONS FOR DETAILED REQUIREMENTS NOT FULLY ADDRESSED IN

SUBMITTAL NOTES

THE FOLLOWING PARTIAL LISTING OF SUBMITTALS SHALL BE FORWARDED TO THE ENGINEER FOR REVIEW. THE WORK ASSOCIATED WITH THESE ITEMS SHALL NOT COMMENCE UNTIL THE SUBMITTALS HAVE BEEN REVIEWED AND APPROVED BY THE REFERENCE THE PROJECT SPECIFICATIONS FOR A COMPLETE LISTING OF REQUIRED SUBMITTALS.

- SUBMIT MOISTURE—DENSITY RELATIONSHIPS FOR EACH TYPE OF FILL MATERIAL. SPECIFIED AND FOR EACH TYPE OF EXPOSED EXISTING SUBGRADE MATERIAL.
- 2. SUBMIT CONCRETE MIX DESIGNS WITH TEST DATA FOR EACH TYPE AND STRENGTH
- 3. SUBMIT A COMPLETE WATERLINE WATERIAL SUBMITTAL ALONG WITH FITTINGS, VALVES AND ALL APPURTENANCES TO BE USED IN PROJECT
- SUBMIT ANY PROPOSED SUBSTITUTIONS TO THE ITEMS SPECIFIED HEREIN OR IN THE SPECIFICATIONS. OWNER RESERVES THE RICHT TO REJECT ANY PROPOSED SUBSTITUTION IN FAVOR OF THAT SPECIFIED.

TESTING LABORATORY REQUIREMENTS

THE OWNER WILL SECURE THE SERVICES OF A COMMERCIAL TESTING LABORATORY TO PERFORM CONSTRUCTION MATERIALS TESTS AND VISUAL INSPECTION SERVICES AS OUTLINED IN THE PROJECT SPECIFICATIONS AND AS LISTED BELOW:

- APPROPRIATE TESTS SHALL BE PERFORMED TO CERTIFY THAT FILL AND BACKFILL MATERIALS SPECIFIED FOR USE ON THE PROJECT MEET THE MINIMUM REQUIREMENTS SET FORTH IN THE PROJECT SPECIFICATIONS AND IN THE NOTES HEREIN. MATERIAL SUBMITTED AS WALL BACKFILL MATERIAL.
 SHALL HAVE A GRAIN SIZE ANALYSIS AND ATTEBURG LIMITS TEST PERFORMED
 AT THE RATE OF 1 TEST PER 5000 CUBIC YARDS TO MONITOR UNIFORMITY AND CONSISTENCY OF THE MATERIAL.
- 2. FIELD DENSITY TESTS SHALL BE PERFORMED ON EACH LIFT OF SOIL MATERIALS PLACED. ONE DENSITY TEST WILL BE REQUIRED FOR EACH 2,500 SQUARE FEET. A MINIMUM OF TWO TESTS SHALL BE REQUIRED FOR
- 3. TESTING OF CONCRETE SHALL BE IN ACCORDANCE WITH THE PROJECT
- 4. SHOP AND FIELD INSPECTION OF STEEL MEMBERS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS
- 5. INSPECTION OF ALL ADHESIVE ANCHORS SHALL BE PERFORMED TO INSURE PROPER INSTALLATION AND TIGHTENING OF BOLTS
- 6. IF WORKMANSHIP IS FOUND TO BE BELOW THE REQUIREMENTS SET FORTH HEREIN OR IN THE SPECIFICATIONS AS A RESULT OF TESTING AND/OR VISUAL INSPECTION, THE CONTRACTOR SHALL CORRECT OR REPLACE WATERIALS AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL COOPERATE AND COORDINATE FULLY WITH THE TESTING LABORATORY AND PROJECT TESTING REQUIREMENTS.

TEMPORARY SHORING, SHEETING AND/OR BRACING NOTES

- A TEMPORARY SHORING SYSTEMS MAY BE REQUIRED FOR ALL EXCAVATIONS IN EXCESS OF 5'-0" IN DEPTH IN ACCORDANCE WITH CURRENT OSHA
- THE DESIGN OF TEMPORARY SHORING SYSTEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PREPARED, SIGNED, AND SEALED BY A PROFESSIONAL ENGINEER CURRENTLY REGISTERED IN THE
- CALCULATIONS AND SHOP DRAWINGS FOR TEMPORARY SHORING SYSTEMS SHALL BE FORWARDED TO THE ENGINEER FOR RECORD.

STRUCTURAL EXCAVATION, BACKFILL AND COMPACTION NOTES

- BEFORE THE START OF EARTHWORK OPERATIONS, ADEQUATELY PROTECT EXISTING STRUCTURES, UTILITIES, AND OTHER PERMANENT OBJECTS FROM DAMAGE. THE CONTRACTOR IS RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ALL DAMAGED ELEMENTS, AT NO ADDITIONAL COST TO OWNER
- EXCAVATION WORK SHALL BE NEAT AND FREE OF DEBRIS AND LOOSE MATERIAL REFER TO THE SPECIFICATIONS FOR PROTECTION OF EXCAVATIONS.
- EXCAVATIONS SHALL NOT BE MADE DURING INCLEMENT WEATHER. WATER ACCUMULATION IN EXCAVATIONS EXCEEDING 1 INCH SHALL BE PUMPED OUT BEFORE THE CONCRETE IS PLACED.
- ALL EXCAVATIONS AND BACKFILL OPERATIONS SHALL BE IN ACCORDANCE WITH THE LATEST OSHA EXCAVATION SAFETY STANDARDS, OSHA 2226 AND 29 CFR PART 1926 SUBPART P. THE CONTRACTOR SHALL PROVIDE AM EXCAVATION PLAN PREPARED BY AN ENGINEER REGISTERED IN THE STATE OF TEXAS. THE EXCAVATION PLAN SHALL INDICATE THE PROCEDURES TO BE USED BY THE CONTRACTOR TO COMPLY WITH THE OSHA REQUIREMENTS. THE EXCAVATION PLAN SHALL IDENTIFY THE "COMPETENT PERSON" AS REQUIRED BY PARAGRAPH 1926,651(k)(1) THAT WILL WORK WITH EACH CREW.
- ALL SURFICIAL VEGETATION AND OTHER ORGANIC MATERIAL SHALL BE REMOVED BENEATH PROPOSED FOUNDATION, BUILDING AND PAYING AREAS PRIOR TO CONSTRUCTION, PILE IN A LOCATION ACCEPTABLE TO THE OWNER.
- SELECT NON-EXPANSIVE FILL WATERIAL SHALL BE %" PEAGRAVEL OR A COURSE GRAINED SAND WITH LESS THAN 40% PASSING THE \$200 SEIVE, OR CEMENT STABILIZED SAND FILL. PLACE MATERIAL IN 12" LOOSE LIFTS AND COMPACT WITH VIBRATORY HAND OPERATED COMPACTION EQUIPMENT.
- SATISFACTORY FILL MATERIAL SHALL BE FREE OF ROOTS, ORGANIC MATERIALS, LARGE ROCKS OR OTHER DEBRIS. THE EXISTING SITE MATERIALS ARE SUITABLE FOR SATISFACTORY FILL MATERIAL SHALL NOT BE USED UNDER ANY FOUNDATION ELEMENTS OR USED FOR BACKFILL AGAINST ANY BELOW GRADE WALLS OR FOUNDATION GRADE BEAMS, SATISFACTORY FILL
 MATERIALS MAY BE USED FOR GENERAL SITE FILLING AWAY FROM ANY
 BUILDINGS OR STRUCTURES WHERE NOTED ON THE DRAWINGS OR AS APPROVED
 BY THE ENGINEER.
- B. IF SEEPAGE OF GROUND WATER INTO EXCAVATIONS OCCURS, REFER TO THE EXCAVATION DEWATERING NOTES AND PROJECT SPECIFICATIONS FOR DEWATERING REQUIREMENTS.
- STOCKPILE EXCAVATED MATERIALS SUITABLE FOR USE AS SATISFACTORY FILL SHORTHE EXCENTED MATERIAL SHIRLE FOR USE AS SATISFACTORY FILL

 SHAPE STOCKPILES FOR PROPER TRAINAGE, EXCESS EXCAVATION MATERIAL

 AND EXCAVATED MATERIAL UNSUITABLE FOR USE AS SATISFACTORY FILL MATERIAL SHALL BE DISPOSED OF AS DIRECTED BY THE OWNER.

EXCAVATION DEWATERING NOTES

- AS THE CONDITIONS OF WORK MAY REQUIRE, PROVIDE AND MAINTAIN IN GOOD OPERATING CONDITION SUCH EQUIPMENT AS MAY BE REQUIRED TO PREVENT WATER FROM ENTERING ANY EXCAVATION. REFER TO THE PROJECT SPECIFICATIONS FOR DETAILED REQUIREMENTS.
- 2 COMPLETE BACKFILLING OPERATIONS PRIOR TO SUSPENDING DEWATERING
- WATER REMOVED FROM EXCAVATIONS SHALL BE DISPOSED OF IN SUCH A MANNER AS TO PREVENT DAMAGE TO ADJACENT PROPERTY OR OTHER WORK UNDER CONSTRUCTION AND IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
- DAMAGE OF WHATEVER NATURE CAUSED BY DEWATERING OPERATIONS OR FAILURE TO DEWATER EXCAVATIONS PROPERLY SHALL BE REPAIRED OR REMEDIED BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.



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