

Neches FCU - Silsbee ITM

135 HWY 327 E.
Silsbee, Tx 77656



ARCHITECTURE PLANNING INTERIOR DESIGN
15810 PARK TEN PLACE, SUITE 300
HOUSTON, TEXAS 77084
713-465-4650
www.sligroup.com

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MARCH 03, 2026: ISSUED FOR BID AND PERMIT

BUILDING CODE AND PROJECT INFORMATION

TDLR FILE NUMBER FAB PROJECT NUMBER:
TABS2026014011

SCOPE OF WORK

COMPLETE INSTALLATION OF A SINGLE DRIVE THRU LANE ITM KIOSK INCLUDING SITEWORK, PAVING, AND SITE LIGHTING.

BUILDING CODE

2018 IBC WITH CITY OF SILSBEE AMENDMENTS
2017 NEC WITH CITY OF SILSBEE AMENDMENTS
2018 IECC WITH CITY OF SILSBEE AMENDMENTS

OCCUPANCY CLASSIFICATION, EGRESS & OCCUPANT LOADS

OCCUPANCY TYPE: U-MISCELLANEOUS
CONSTRUCTION TYPE: VB
STRUCTURE HEIGHT: 13'-9" FT
STRUCTURE FOOT PRINT: 297 S.F.

SITE

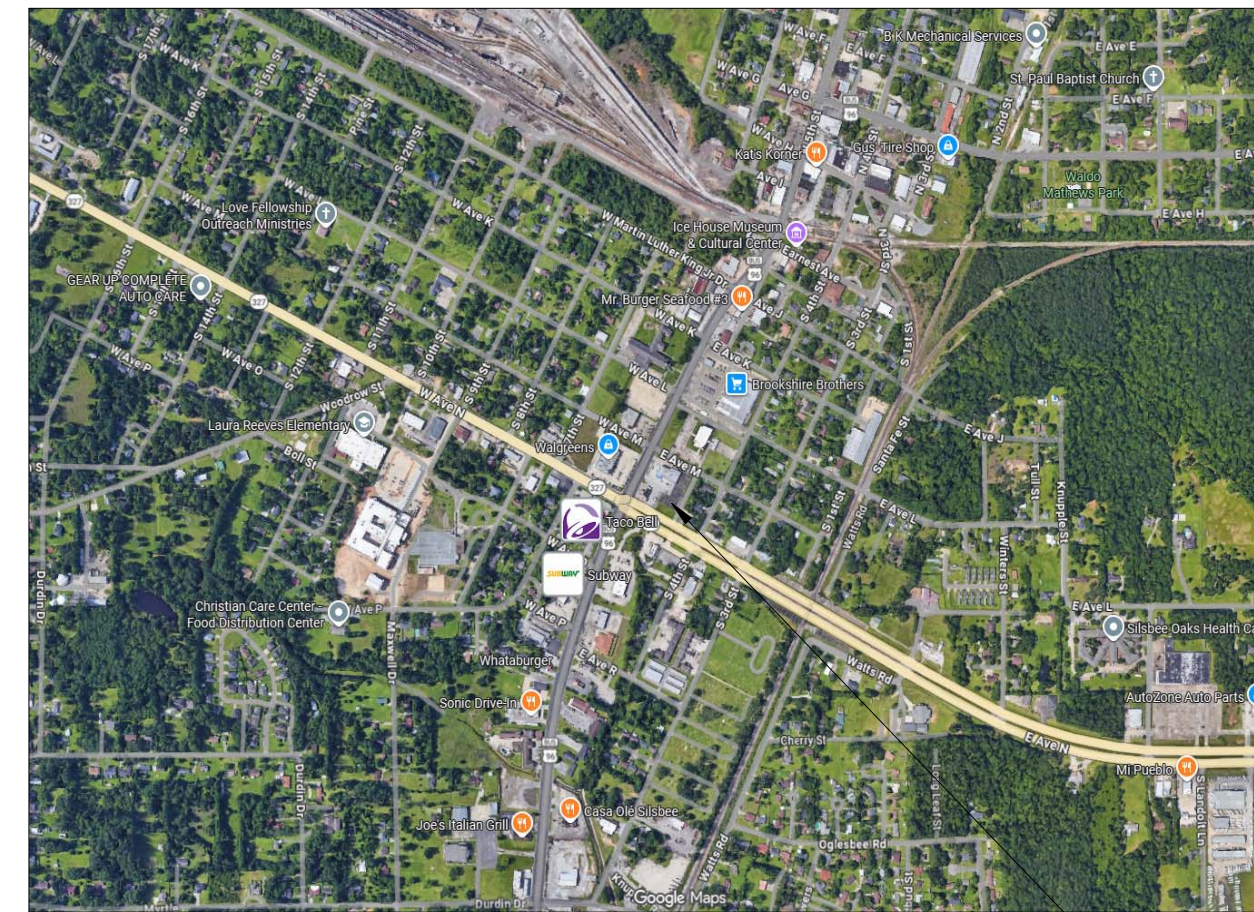
CURRENT ZONING:
PROPOSED ZONING:

REQUIRED SET BACKS
FRONT: 25'-0"
BACK: 0'-0"
SIDES:

RENDERING



VICINITY MAP



GENERAL

T-1.00 TITLE SHEET
A-0.10 ACCESSIBILITY ELEMENT COMPLIANCE

CIVIL

C1 COVER SHEET
C2 TOPOGRAPHIC SURVEY (FOR REFERENCE ONLY)
C3 OVERALL SITE & DIMENSION CONTROL PLAN
C4 SITE GRADING PLAN
C5 PAVEMENT JOINT PLAN
C6 DRAINAGE ANALYSIS
C7 CONSTRUCTION DETAILS
C8 STORM WATER POLLUTION PREVENTION MAP
C9 STORM WATER POLLUTION PREVENTION MAP DETAILS

ARCHITECTURAL SITE

SP-1.00 OVERALL SITE
SP-1.01 DEMO SITE PLAN
SP-1.10 SITE PLAN
SP-1.20 LANDSCAPE PLAN
SP-2.00 ITM KIOSK DETAILS
SP-2.01 ITM KIOSK DETAILS
SP-2.10 ITM ENCLOSURE
SP-2.20 BANK EQUIPMENT
SP-3.00 SITE SIGNAGE

ELECTRICAL

MEP1.01 MEP SPECIFICATIONS
MEP2.02 MEP SPECIFICATIONS
E0.01 ELECTRICAL INFORMATION SHEET
E1.01 ELECTRICAL SITE PLAN
E1.02 PHOTOMETRIC ATM
E1.03 PHOTOMETRICS - GENERAL
E2.01 ELECTRICAL SCHEDULES

ABBREVIATIONS

ABBR	DEFINITION	ABBR	DEFINITION
AC	AIR CONDITIONER	INCL	INCLUDING
ACT	ACOUSTICAL CEILING TILE	INS	INSULATION
ADD	ADDITIONAL	INT	INTERIOR
ADJ	ADJACENT	JAN	JANITOR
AFF	ABOVE FINISH FLOOR	JC	JANITOR'S CLOSET
AFC	AT FINISH CEILING	JT	JOINT
ALUM	ALUMINUM	LP	LOW POINT
ARCH	ARCHITECTURAL	LAM	LAMINATED
BD	BOARD	LAV	LAVATORY
BFF	BELOW FINISH FLOOR	LGT	LIGHTING
BLDG	BUILDING	MAX	MAXIMUM
BLKG	BLOCKING	MBM	METAL BUILDING MANUFACTURER
BM	BEAM	MCH	MECHANICAL
BO	BOTTOM OF	MEMB	MEMBRANE
BRG	BEARING	MFR	MANUFACTURER
CSD	CHALKBOARD	MIN	MINIMUM
CI	CAST IRON	MISC	MISCELLANEOUS
CP	CAST-IN-PLACE	MO	MASONRY OPENING
CJ	CONTROL JOINT	MTL	METAL
CL	CENTERLINE	NIC	NOT IN CONTRACT
CLG	CEILING	NO	NUMBER
CLR	CLEAR	NTS	NOT TO SCALE
CLO	CLOSET	OC	ON CENTER
CMU	CONCRETE MASONRY UNIT	OHD	OVERHEAD DOOR
CONT	COLUMN	OPNG	OPENING
CONC	CONCRETE	OPP	OPPOSITE
CONT	CONTINUOUS	OPP.HD.	OPPOSITE HAND
CPT	CARPET	PART	PARTITION
CT	CERAMIC TILE	PC	PRECAST
DET	DETAIL	PEMB	PRE-ENGINEERED METAL BUILDING
DF	DRINKING FOUNTAIN	PLAM	PLASTIC LAMINATE
DI	DIAMETER	PT	PRESSURE TREATED
DN	DOWN	PTD	PAINTED
DR	DOOR	PVC	POLYVINYL CHLORIDE
DWG	DRAWING	QT	QUARRY TILE
EA	EACH	QTY	QUANTITY
EJ	EXPANSION JOINT	R	RADIUS or RISER
ELEC	ELECTRICAL	RA	RETURN AIR
ELEV	ELEVATION or ELEVATOR	RD	ROOF DRAIN
EXT	EXTERIOR	REF	REFERENCE
EQ	EQUAL	REF	REINFORCING or REINFORCED
EQUIP	EQUIPMENT	REQ	REQUIRED
EXIST	EXISTING	REV	REVISION
FD	FLOOR DRAIN	RM	ROOM
FN	FOUNDATION	RO	ROUGH OPENING
FE	FIRE EXTINGUISHER	RTU	ROOF TOP UNIT
FF	FIRE EXTINGUISHER CABINET	SECT	SECTION
FFE	FINISH FLOOR ELEVATION	SM	SIMILAR
FF	FINISH FLOOR TRANSITION	SPEC	SPECIFICATION
FIN	FINISH	SS	STAINLESS STEEL
FIXT	FIXTURE	STD	STANDARD
FR	FIRE-RATED	STL	STEEL
FRP	FIBERGLASS REINFORCED PLASTIC	STRUC	STRUCTURAL
FRT	FIRE RETARDANT TREATED	SUSP	SUSPENDED
FT	FOOT	TREAD	TREAD
FV	FIELD VERIFY	TBD	TO BE DETERMINED or TACKBOARD
GA	GALVE	TD	TRENCH DRAIN
GALV	GALVANIZED	TOS	TOP OF
GC	GENERAL CONTRACTOR	TOC	TOP OF CONCRETE
GL	GLASS	TOP OF STEEL	TOP OF STEEL
GYP BD	GYP SUM BOARD	TOW	TOP OF WALL
HC	HANDICAP ACCESSIBLE	THK	THICK
HW	HARDWARE	TYP	TYPICAL
HGT	HEIGHT	UNO	UNLESS NOTED OTHERWISE
HM	HOLLOW METAL	VCT	VINYL COMPOSITION TILE
HORIZ	HORIZONTAL	VERT	VERTICAL
HP	HIGH POINT	WD	WOOD
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	WIDW	WINDOW
IN	INCH	WF	WIDE FLANGE
		WPR	WATERPROOFING

PROJECT LOCATION

DRAWING SYMBOLS LEGEND

SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
	NORTH ARROW		PARTITION TYPE		COLUMN GRID
	DRAWING NAME, NUMBER, AND SCALE		DOOR IDENTIFICATION		CENTERLINE
	ENLARGED DETAIL REFERENCE		ROOM NAME ROOM NUMBER		BREAK LINE
	EXTERIOR ELEVATION		INTERIOR ELEVATION		SPOT ELEVATION
	BUILDING SECTION		DIMENSION LINES		
	WALL SECTION		MATCH LINE		
	SECTION DETAIL		REVISION NUMBER & AFFECTED AREA		
	VERTICAL ELEVATION		FIRE EXTINGUISHER		

TYPICAL MOUNTING HEIGHTS:

CONVENIENCE OUTLETS	15" (FLOOR TO BOTTOM OF BOX UNLESS OTHERWISE NOTED ON PLAN)
LIGHT SWITCHES	45" (FLOOR TO BOTTOM OF BOX)
FIRE ALARM PULL STATIONS	48" (FLOOR TO BOTTOM OF PULL)
TELEPHONE OUTLETS	15" (FLOOR TO BOTTOM OF BOX OR AS NOTED ON PLAN)
WALL TELEPHONE OUTLETS	45" (FLOOR TO BOTTOM OF BOX)
DATA CABLE OUTLETS	15" (FLOOR TO BOTTOM OF BOX)
SMOKE AND HEAT DETECTORS	CEILING MOUNTED

GENERAL NOTES:

1. NOTIFY ARCHITECT OF ANY DISCREPANCIES AND/OR OMISSIONS.
2. ALL WORK SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL ORDINANCES.
3. ALL DIMENSIONS ARE TO FINISHED FACE OF PARTITIONS.
4. ALL DOORS ON AN ACCESSIBLE ROUTE SHALL HAVE A MIN. 18" CLEAR ON THE PULL SIDE. A MIN. 12" CLEAR ON THE PUSH SIDE WHEN DOOR IS EQUIPPED WITH BOTH A LATON AND CLOSER.
5. ALL DOORS TO RECEIVE NEW AMERICAN DISABILITIES ACT COMPLIANT HARDWARE.

PROJECT TEAM

ARCHITECT/CONTRACTOR
SLI GROUP
15810 PARK TEN PLACE, SUITE 300
HOUSTON, TEXAS 77084
713-465-4650

STRUCTURAL ENGINEER

SOUTEX
3737 Doctors Drive
Port Arthur, TX 77642

CIVIL ENGINEER

PRO E CONSULTING
1334 Brittmoore, Suite 2808
Houston, TX 77043

MEP ENGINEER

EBE ENGINEERS
12603 Southwest Frwy, Ste 170
Stafford, TX 77477

GEOTECHNICAL

PRINT DATE: 3/4/2026 9:17:58 AM



03/03/2026

DRAWING TITLE

TITLE SHEET

DRAWN BY: RG SHEET NO.

CHECKED BY: BL

APPROVED BY: TB

T-1.00

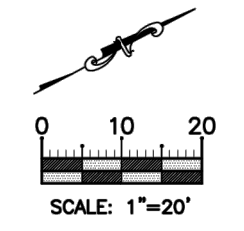
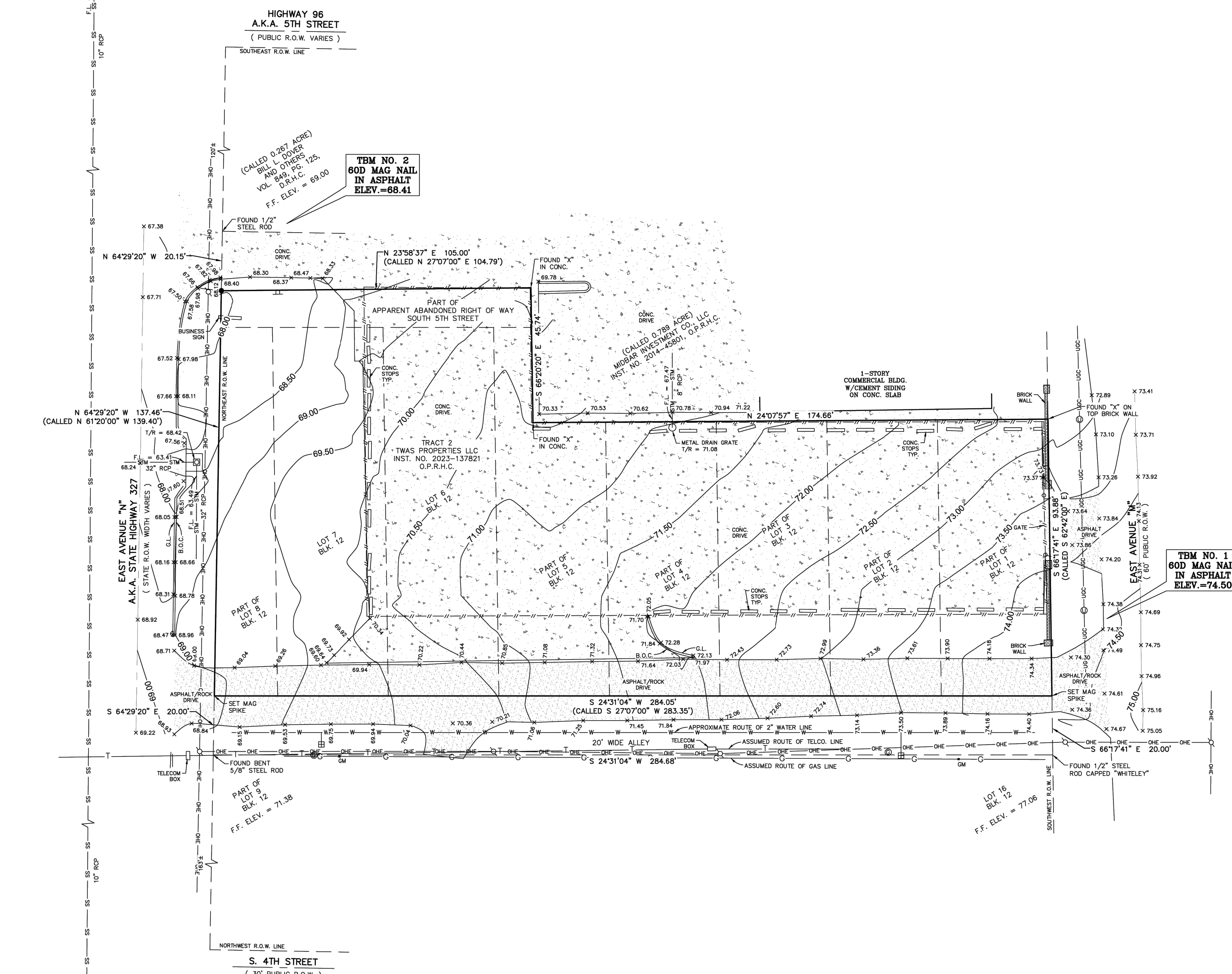
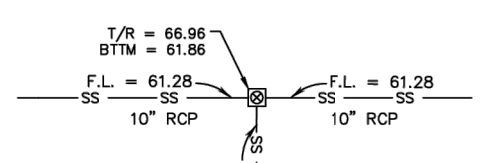
Neches FCU - Silsbee ITM
135 HWY 327 E.
Silsbee, Tx 77656

Project Number : 8975

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- LEGEND**
- OVERHEAD ELECTRIC
 - CHAINLINK FENCE
 - UNDERGROUND CABLE LINE
 - GAS LINE
 - TELCO. CABLE LINE
 - SANITARY SEWER
 - STORM SEWER
 - WATER LINE
 - = POWER POLE
 - = SIGN
 - = BURIED CABLE SIGN
 - = SET 1/2" STEEL ROD CAPPED "SOUTEX"
 - ⊠ = STORM SEWER MANHOLE
 - ⊞ = GREEN DRAIN LID
 - ⊞ = WATER METER
 - ⊞ = SANITARY SEWER MANHOLE

FEMA Flood Zone: X
 Scale: 1" = 20'
 Map Panel No.: 48199C-0385-F
 Panel Date: 10/6/2010

DESCRIPTION OF SERVICES: TOPOGRAPHIC SURVEY
 SURVEYOR'S CERTIFICATION:
 This map represents a Topographic Survey was done on this day 01/28/2026.

Randall Alvey Creel
 RANDALL ALVEY CREEL
 REGISTERED PROFESSIONAL LAND SURVEYOR NO. 6878



SURVEYOR'S NOTES

- THIS SURVEY DOES NOT WARRANT OWNERSHIP; THERE MAY BE EASEMENTS, OR OTHER MATTERS NOT SHOWN.
- THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE REPORT.
- IN ACCORDANCE WITH THE FLOOD INSURANCE RATE MAP OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY, MAP REFERENCE SHOWN, THE SUBJECT TRACT LIES IN THE FLOOD ZONE NOTED. LOCATION ON MAP WAS DETERMINED BY SCALE. ACTUAL FIELD ELEVATION NOT DETERMINED, UNLESS REQUESTED. SOUTEX SURVEYORS, INC. DOES NOT WARRANT NOR SUBSCRIBE TO THE ACCURACY OR SCALE OF SAID MAP.
- BEARINGS, COORDINATES, DISTANCES AND ACRES ARE BASED ON THE TEXAS COORDINATE SYSTEM OF 1983, CENTRAL ZONE, US SURVEY FEET, REFERENCED TO SMARTNET, NORTH AMERICA.
- ELEVATIONS SHOWN ARE NAD83 OR METRIC HEIGHTS DERIVED USING GEOID18 AND ARE REFERENCED TO SMARTNET, NA.
- TEXAS 811-CALL SHOULD BE DONE PRIOR TO ANY DIGGING OR CONSTRUCTION IN CASE OF UNDERGROUND PIPELINES OR UTILITIES.
- TEXAS 811-CALL TICKET NO. 260115005
- THE LOCATIONS OF UNDERGROUND AND OTHER NON-VISIBLE UTILITIES SHOWN HEREON HAVE BEEN PLOTTED BASED UPON DATA EITHER FURNISHED BY THE AGENCIES CONTROLLING SUCH DATA AND/OR OBTAINED FROM RECORDS MADE AVAILABLE TO US BY THE AGENCIES CONTROLLING SUCH RECORDS. WHERE FOUND, THE SURFACE STATUSES OF UTILITIES ARE SHOWN. THE ACTUAL NON-VISIBLE LOCATIONS MAY VARY FROM THOSE SHOWN HEREON. EACH AGENCY SHOULD BE CONTACTED RELATIVE TO THE PROPOSE LOCATION OF ITS UNDERGROUND INSTALLATIONS PRIOR TO ANY RELIANCE UPON THE ACCURACY OF SUCH LOCATIONS SHOWN HEREON. PRIOR TO EXCAVATION AND DIGGING CALL TEXAS 811.



3737 Doctors Drive
 Port Arthur, Texas 77642
 Tel. 409.985.2004
 Fax 409.985.2005
 soutexsurveyors.com

SHEET TITLE
 0.7135 ACRE OF LAND, PART OF LOTS 1-8, BLOCK 12, & PART OF SOUTH 5TH STREET, TOWN OF SILSBEE, VOL. 2, PG. 242, PLAT RECORDS, HARDIN COUNTY, TEXAS
PROJECT
 NECHES FEDERAL CREDIT UNION AND/OR ASSIGNS EAST AVENUE "M" SILSBEE, TEXAS 77656

PROJ. NO: 25-0584
 SCALE: 1" = 20'
 PRINT DATE: 1/29/2026
 DRAWN BY: EA
 CHECKED BY: RAC
 APPROVED BY: RAC
 SHEET 1 OF 1



DATE	REVISION

CONSTRUCTION PLANS FOR
NECHES FEDERAL CREDIT UNION - SILSBEE ITM
 (PRIVATE ON-SITE)
 PAVING, & DRAINAGE FACILITIES

135 HWY 327 E.,
 SILSBEE, TEXAS 77656

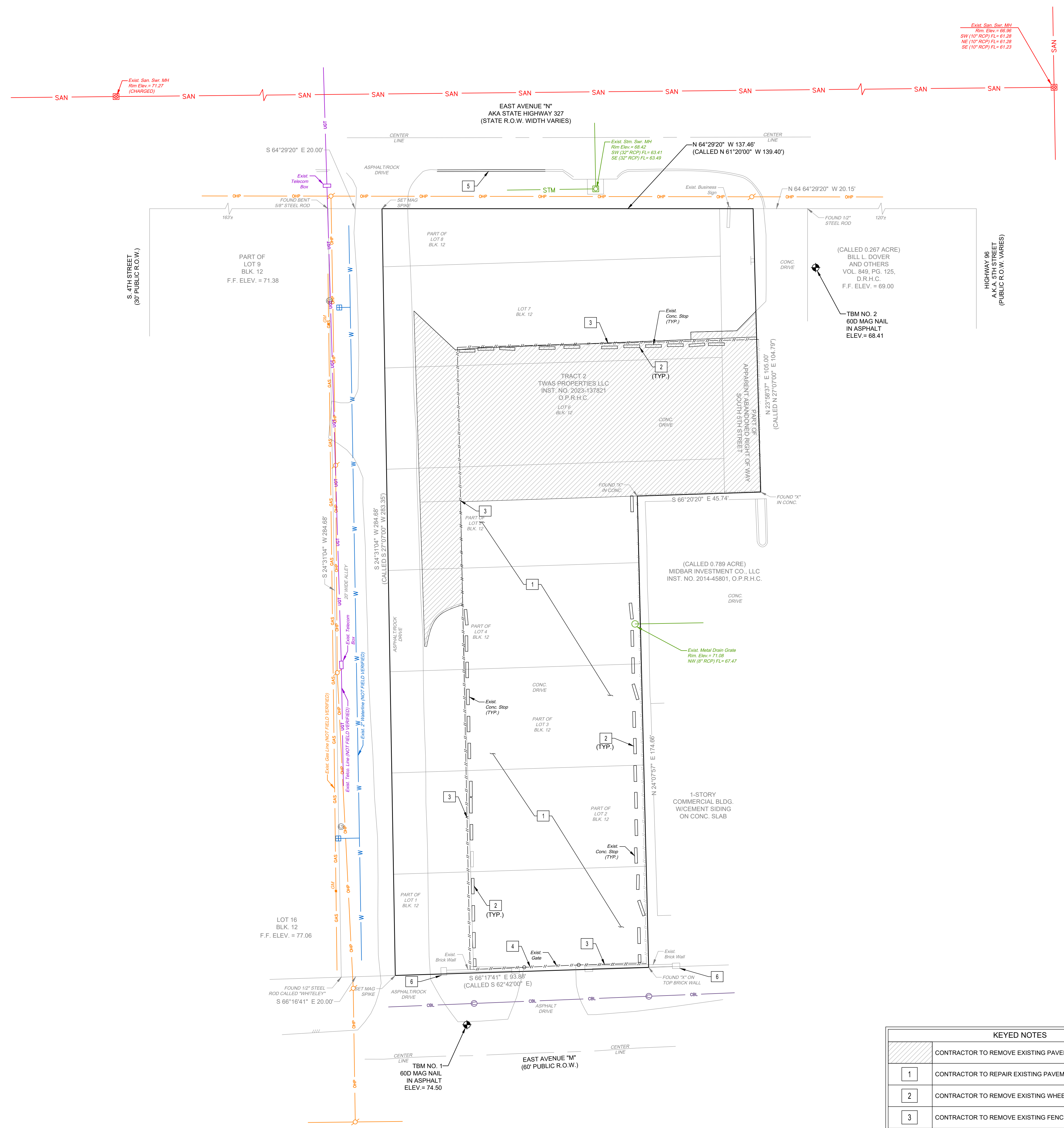
TOPOGRAPHIC SURVEY
 (FOR REFERENCE ONLY)

PRO-E PROJECT NO.: 1018-0017

SUBMITTED:	DESIGNED BY: KL
SCALE: N/A	DRAWN BY: SG
DATE: MARCH, 2026	SHEET NO. C2 OF C9
SURVEYED BY: SOUTEX SURVEYORS & ENGINEERS	CITY DWG NO.:

PRIVATE PLANS - NECHES FEDERAL CREDIT UNION - SILSBEE ITM - 135 HWY 327 E., SILSBEE, TEXAS 77656 - 1018-0017

User Name: kender
 Date: 03 Mar 2026 - 2:48pm
 Path Name: C:\Users\kender\OneDrive - proeconsulting.com\OneDrive - proeconsulting.com\Projects\1018 - SU Group\0017 - Neches FCD_Silsbee\2 CAD\Private\C3 DEMOLITION PLANNING



KEYED NOTES	
	CONTRACTOR TO REMOVE EXISTING PAVEMENT.
1	CONTRACTOR TO REPAIR EXISTING PAVEMENT.
2	CONTRACTOR TO REMOVE EXISTING WHEELSTOPS.
3	CONTRACTOR TO REMOVE EXISTING FENCE.
4	CONTRACTOR TO REMOVE EXISTING GATE.
5	CONTRACTOR TO REMOVE EXISTING CURB
6	CONTRACTOR TO CLEAN EXISTING BRICK WALL.

KNOW WHAT'S BELOW.
CALL BEFORE YOU DIG.
CALL 811!

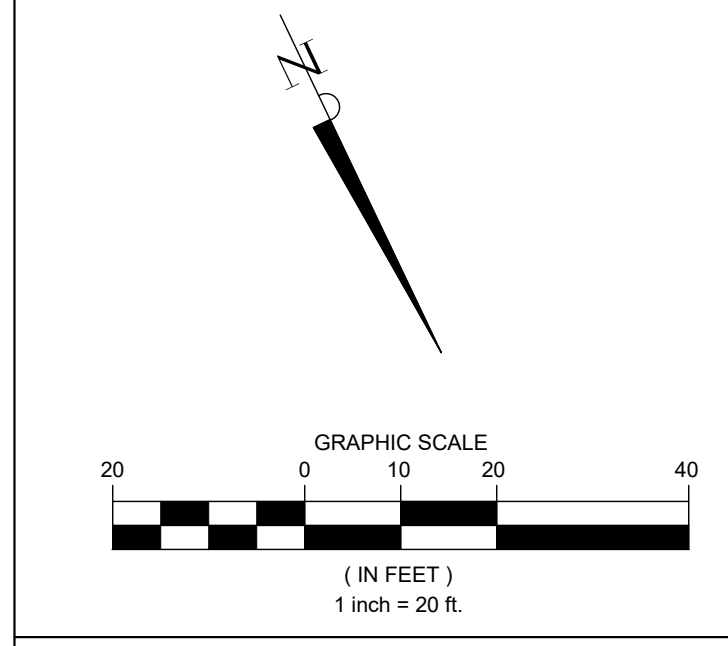
ALL LINES MUST BE
FIELD VERIFIED

CAUTION EXIST GAS
FACILITIES IN AREA

NOTE:
LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE
AND MAY NOT BE COMPLETE. CONTRACTOR IS
RESPONSIBLE FOR LOCATING AND VERIFYING EXISTING
UTILITIES. NO SEPARATE PAY FOR REMOVAL,
RELOCATION, OR HANDLING OF KNOWN OR UNKNOWN
EXISTING UTILITIES WHICH MAY NOT BE FORESEEABLE.

NOTE:
CONTRACTOR SHALL BE RESPONSIBLE FOR ALL
MATERIAL, DEBRIS, AND SOIL HULL OFF AS NECESSARY.
THE CONTRACTOR IS RESPONSIBLE FOR BUDGETING AS
NECESSARY FOR ALL PROJECT HAUL OFF.

- DEMOLITION NOTES:**
- ALL WORK ON THIS PLAN SHOULD BE PERFORMED IN ACCORDANCE WITH THE PROJECT MANUAL AND GEOTECH REPORT.
 - PROTECTION OF EXISTING FACILITIES
 - PROTECT EXISTING UTILITIES AND IMPROVEMENTS NOT DESIGNATED FOR REMOVAL AND RESTORE DAMAGED OR TEMPORARILY RELOCATED UTILITIES AND IMPROVEMENTS.
 - VERIFY EXACT LOCATIONS AND DEPTHS OF UTILITIES SHOWN AND MAKE EXPLORATORY EXCAVATIONS OF UTILITIES THAT MAY INTERFERE WITH THE WORK.
 - PERFORM EXPLORATORY EXCAVATIONS AS SOON AS PRACTICABLE AFTER AWARD OF CONTRACT AND A SUFFICIENT TIME IN ADVANCE OF CONSTRUCTION TO AVOID DELAYS TO THE WORK.
 - WHEN EXPLORATORY EXCAVATIONS SHOW UTILITY LOCATION AS SHOWN TO BE IN ERROR, NOTIFY ENGINEER.
 - PERFORM EXPLORATORY EXCAVATIONS REQUIRED TO SUFFICIENTLY DETERMINE ALIGNMENT AND GRADE OF EXISTING UTILITIES.
 - TAKE ALL NECESSARY PRECAUTIONS TO PRESERVE PRIVATE AND PUBLIC PROPERTY IN THE IMMEDIATE AREA OF WORK SITES.
 - ASSUME TOTAL LIABILITY FOR DAMAGE TO PRIVATE AND/OR PUBLIC PROPERTY DURING THE PROSECUTION OF THE WORK.
 - PROTECTION OF SURVEY MARKERS
 - DO NOT DESTROY, REMOVE, OR OTHERWISE DISTURB EXISTING SURVEY MARKERS OR OTHER EXISTING STREET OR ROADWAY MARKERS WITHOUT PROPER AUTHORIZATION.
 - CONTACT FORT BEND COUNTY SURVEY OFFICE TO DETERMINE LOCATION OF ALL SURVEY MARKERS.
 - NO WORK SHALL BE STARTED UNTIL ALL SURVEY OR OTHER PERMANENT MARKER POINTS THAT WILL BE DISTURBED BY THE CONSTRUCTION OPERATIONS HAVE BEEN PROPERLY REFERENCED FOR EASY AND ACCURATE RESTORATION.
 - ACCURATELY RESTORE SURVEY MARKERS OR POINTS DISTURBED BY CONTRACTOR AT CONTRACTOR'S EXPENSE AFTER WORK HAS BEEN COMPLETED.
 - PAVEMENT
 - PAVEMENTS SUBJECT TO PARTIAL REMOVAL SHALL BE NEATLY SAW CUT IN STRAIGHT LINES UNLESS OTHERWISE NOTED.
 - DEMOLITION
 - BUILDING DEMOLITION SHALL INCLUDE COMPLETE REMOVAL AND DISPOSAL OF DESIGNATED STRUCTURES ON WITHIN THE LIMITS OF DEMOLITION SHOWN ON THE DRAWINGS, AND SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING WORK:
 - VERIFICATION THAT ALL UTILITIES SERVING THE BUILDING HAVE BEEN TERMINATED. UTILITY DISCONNECTS SHALL BE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL CONTACT CENTERPOINT FOR POWER AND GAS AND SBC FOR TELEPHONE FOR COORDINATION PRIOR TO COMMENCING WORK (713-223-4567 OR 1-800-344-8377).
 - REMOVAL OF ALL STRUCTURES AND FOUNDATIONS TO A MINIMUM OF FIVE (5) FEET BELOW FUTURE FINISHED GRADE, AND REMOVAL OF ALL ASSOCIATED PIPING, WIRING, DUCTWORK, AND EQUIPMENT.
 - BREAK-UP AND REMOVAL OF SLABS ON GRADE. SLAB SHALL BE COMPLETELY REMOVED.
 - REMOVAL OF UNDERGROUND TANKS, PIPING, AND PUMPS WITH ASSOCIATED WIRING.
 - FILLING OF ALL SUBGRADE CAVITIES WITH ON-SITE SOIL COMPACTED TO 95 PERCENT DENSITY (ASTM D698).
 - PROVISIONS FOR TEMPORARY BRACING AND SHORING AS REQUIRED UNTIL DEMOLITION AND BACKFILLING WORK IS COMPLETE.
 - UNIFORM GRADING OF DEMOLITION AREA TO MATCH EXISTING GRADE OF PERIMETER.
 - RESTORATION OF SIDEWALKS, BITUMINOUS AND CONCRETE PAVEMENTS, AND ANY OTHER IMPROVEMENTS OR PROPERTY DAMAGED BY DEMOLITION OPERATIONS.
 - CLEANING OF ADJACENT STRUCTURES, IMPROVEMENTS, STREETS, SIDEWALKS, AND PROPERTY OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS.
 - ASBESTOS ABATEMENT PRIOR TO DEMOLITION. CONTRACTOR TO ABATE THE EXISTING ASBESTOS CONTAINING MATERIALS IN ACCORDANCE WITH THE ASBESTOS SURVEY PERFORMED BY OWNER. CONTRACTORS BID SHOULD BE ALL INCLUSIVE WITH THE EXCEPTION OF THE REQUIRED MONITORING/TESTING WHICH WILL BE BY OWNER. QUANTITIES IN THE ASBESTOS SURVEY SHOULD BE VERIFIED BY CONTRACTORS PRIOR TO THE SUBMITTAL OF BIDS. CONTRACTOR TO COORDINATE WITH OWNERS CONSULTANTS DURING ABATEMENT ACTIVITIES. ABATEMENT OF ASBESTOS TO OCCUR WITHIN THE DEMOLITION PHASE INDICATED.
 - DEMOLITION SHALL BE BY CONVENTIONAL DEMOLITION METHODS USING HEAVY TO LIGHT MECHANICAL MEANS AS WELL AS HAND DEMOLITION METHODS. USE OF EXPLOSIVES SHALL NOT BE PERMITTED. BURNING AND BURIAL OF MATERIAL ON SITE SHALL NOT BE PERMITTED.
 - THE CONTRACTOR SHALL LIMIT DUST AND DIRT CAUSED BY DEMOLITION OPERATIONS SO AS TO COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
 - DEMOLITION OPERATIONS SHALL NOT INTERRUPT EXISTING UTILITIES SERVING NEIGHBORING STRUCTURES AND/OR BUILDING TO REMAIN OPERATIONAL DURING PHASES OF DEMOLITION, EXCEPT WHEN AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION. CONTRACTOR SHALL PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS DIRECTED BY GOVERNING AUTHORITIES.
 - REGULATORY REQUIREMENTS
 - CONFORM TO APPLICABLE CODE FOR DEMOLITION OF STRUCTURES, SAFETY OF ADJACENT STRUCTURES, DUST CONTROL, RUNOFF CONTROL, AND DISBURSAL.
 - OBTAIN REQUIRED PERMITS FROM AUTHORITIES.
 - NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS.
 - DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, OR HYDRANTS WITHOUT PERMITS.
 - PREPARATION
 - PROVIDE, ERECT, AND MAINTAIN TEMPORARY BARRIERS AND SECURITY DEVICES PRIOR TO WORK.
 - PROTECT EXISTING APPURTENANCES AND STRUCTURES WHICH ARE NOT TO BE DEMOLISHED.
 - PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES. PROVIDE BRACING AND SHORING.
 - MARK LOCATION OF UTILITIES.
 - PROTECTION OF EXISTING UTILITIES AND IMPROVEMENTS
 - PROTECT UNDERGROUND UTILITIES AND OTHER IMPROVEMENTS WHICH MAY BE IMPAIRED DURING CONSTRUCTION OPERATIONS.
 - DETERMINE ACTUAL LOCATION OF EXISTING UTILITIES AND OTHER IMPROVEMENTS THAT WILL BE ENCOUNTERED DURING CONSTRUCTION OPERATIONS.
 - ADEQUATELY PROTECT UTILITIES AND OTHER IMPROVEMENTS FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS.
 - TAKE ALL POSSIBLE PRECAUTIONS FOR PROTECTING UNFORESEEN UTILITY LINES TO PROVIDE FOR UNINTERRUPTED SERVICE AND TO PROVIDE NECESSARY SPECIAL PROTECTION.
 - OWNER'S RIGHT OF ACCESS. OWNER AND OWNERS OF PUBLIC UTILITIES RESERVE THE RIGHT TO ENTER AT ANY TIME UPON ANY PUBLIC STREET, ALLEY, RIGHT-OF-WAY, OR EASEMENT FOR THE PURPOSE OF MAKING CHANGES IN THEIR PROPERTY.
 - UNDERGROUND UTILITIES INDICATED
 - EXISTING UTILITY LINES TO BE RETAINED, THAT ARE INDICATED OR LOCATIONS OF WHICH ARE MADE KNOWN TO CONTRACTOR PRIOR TO EXCAVATION, AND UTILITY LINES CONSTRUCTED DURING EXCAVATION OPERATIONS SHALL BE PROTECTED FROM DAMAGE DURING EXCAVATION AND BACKFILLING.
 - IF DAMAGED, CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE.
 - UNDERGROUND UTILITIES NOT INDICATED: IF CONTRACTOR DAMAGES EXISTING UTILITY LINES THAT ARE NOT INDICATED OR THE LOCATIONS OF WHICH ARE NOT MADE KNOWN TO CONTRACTOR PRIOR TO EXCAVATION, IMMEDIATELY MAKE A WRITTEN REPORT TO ENGINEER.
 - APPROVAL OF REPAIRS. REPAIRS TO A DAMAGED UTILITY OR IMPROVEMENT SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY AN AUTHORIZED REPRESENTATIVE OF THE UTILITY OR IMPROVEMENT OWNER BEFORE BEING CONCEALED BY BACKFILL OR OTHER WORK.
 - MAINTAINING IN SERVICE.
 - DURING CONSTRUCTION, CONTINUOUSLY MAINTAIN OIL AND GASOLINE PIPELINES, POWER, TELEPHONE, AND COMMUNICATION CABLE DUCTS; GAS AND WATER MAINS; IRRIGATION LINES; SEWER LINES; STORM DRAIN LINES; POLES, OVERHEAD POWER, AND COMMUNICATION WIRES AND CABLE ENCOUNTERED ALONG THE LINE OF THE WORK IN SERVICE UNLESS OTHER ARRANGEMENTS APPROVED BY ENGINEER ARE MADE WITH THE OWNERS OF THE UTILITIES.
 - BE RESPONSIBLE FOR AND REPAIR DAMAGE DUE TO CONSTRUCTION OPERATIONS, EVEN IF DAMAGE OCCURS AFTER BACKFILLING OR IS NOT DISCOVERED UNTIL AFTER COMPLETION OF BACKFILLING.
 - NOTIFICATION BY CONTRACTOR
 - PRIOR TO EXCAVATION IN VICINITY OF EXISTING UNDERGROUND FACILITIES (INCLUDING WATER, SEWER, STORM DRAIN, GAS, PETROLEUM PRODUCTS, OR OTHER PIPELINES; BURIED ELECTRIC POWER, COMMUNICATIONS, OR TELEVISION CABLES; TRAFFIC SIGNAL AND STREET LIGHTING FACILITIES; AND ROADWAY AND STATE HIGHWAY RIGHTS-OF-WAY) NOTIFY THE RESPECTIVE AUTHORITIES REPRESENTING THE OWNERS OR AGENCIES RESPONSIBLE FOR THE FACILITIES NOT LESS THAN 3 DAYS NOR MORE THAN 7 DAYS PRIOR TO EXCAVATION SO THAT A REPRESENTATIVE OF OWNERS OR AGENCIES CAN BE PRESENT DURING SUCH WORK IF THEY SO DESIRE.
 - NOTIFY THE UNDERGROUND SERVICE ALERT OR UTILITY COORDINATION COMMITTEE AT 713-223-4567 OR 1-800-344-8377 AT LEAST 2 DAYS, BUT NO MORE THAN 14 DAYS, PRIOR TO EXCAVATION.
 - DEMOLITION
 - CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE WITH ADJACENT STRUCTURES.
 - CEASE OPERATIONS IMMEDIATELY IF ADJACENT STRUCTURES APPEAR TO BE IN DANGER. NOTIFY OWNER. DO NOT RESUME OPERATIONS UNTIL DIRECTED BY OWNER.
 - CONDUCT OPERATIONS WITH MINIMUM INTERFERENCE TO PUBLIC OR PRIVATE ACCESS AND COMMERCIAL USES. MAINTAIN PROTECTED EGRESS AND ACCESS AT ALL TIMES.
 - DEMOLITION ACTIVITIES SHALL BE WHOLLY CONTAINED WITHIN THE PROPERTY BOUNDARY LINES.
 - DEMOLITION REQUIREMENTS
 - DISCONNECT, CAP, AND IDENTIFY DESIGNATED UTILITIES WITHIN DEMOLITION AREAS.
 - REMOVE FOUNDATION WALLS AND FOOTINGS TO A MINIMUM OF FIVE FEET BELOW FINISHED GRADE BEYOND AREA OF NEW CONSTRUCTION.
 - REMOVE CONCRETE SLABS ON GRADE.
 - BACKFILL OPEN PITS AND HOLES CAUSED AS A RESULT OF DEMOLITION.
 - ROUGH GRADE AND COMPACT AREAS AFFECTED BY DEMOLITION TO MAINTAIN SITE GRADES AND CONTOURS.
 - REMOVE DEMOLISHED MATERIALS FROM SITE.
 - DO NOT BURN OR BURY MATERIALS ON SITE. LEAVE SITE IN CLEAN CONDITION.
 - CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE AWAY FROM FACILITIES TO REMAIN IN OPERATION DURING DEMOLITION PHASING.
 - CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL REGULATORY AGENCIES AND ANY OTHER ENTITY CONCERNING THE RELEASE OF GASES FROM ANY EXISTING EQUIPMENT TO BE DEMOLISHED OR REMOVED.



BENCHMARK NOTE:
ELEVATIONS SHOWN ARE NAVD88 ORTHOMETRIC HEIGHTS DERIVED USING GEOID18 AND ARE REFERENCED TO SMARTNET, NA.

BENCHMARK: TBM 1 ELEVATION: 74.50'
TBM No. 1 IS A 60D NAIL IN ASPHALT ±32 FEET NORTHWEST FROM THE NORTHEAST PROPERTY CORNER AND ±11 FEET SOUTH FROM CENTERLINE OF EAST AVENUE M.

BENCHMARK: TBM 2 ELEVATION: 68.41'
TBM No. 2 IS A 60D NAIL IN ASPHALT ±32 FEET NORTHWEST FROM THE SOUTHWEST PROPERTY CORNER AND ±48 FEET NORTH FROM CENTERLINE OF EAST AVENUE N.

FLOOD STATEMENT:
IN ACCORDANCE WITH THE FLOOD INSURANCE RATE MAP OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY, MAP REFERENCE SHOWN, THE SUBJECT TRACT LIES IN FLOOD ZONE "X". LOCATION ON MAP WAS DETERMINED BY SCALE.

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1334 Britton Road Suite # 2808 Houston, TX 77043 Firm License F-21665 www.proeconsulting.com

Justin A. Schrader

DATE	REVISION

CONSTRUCTION PLANS FOR
NECHES FEDERAL CREDIT UNION - SILSBEE ITM
(PRIVATE ON-SITE)
PAVING, & DRAINAGE FACILITIES

135 HWY 327 E.,
SILSBEE, TEXAS 77656

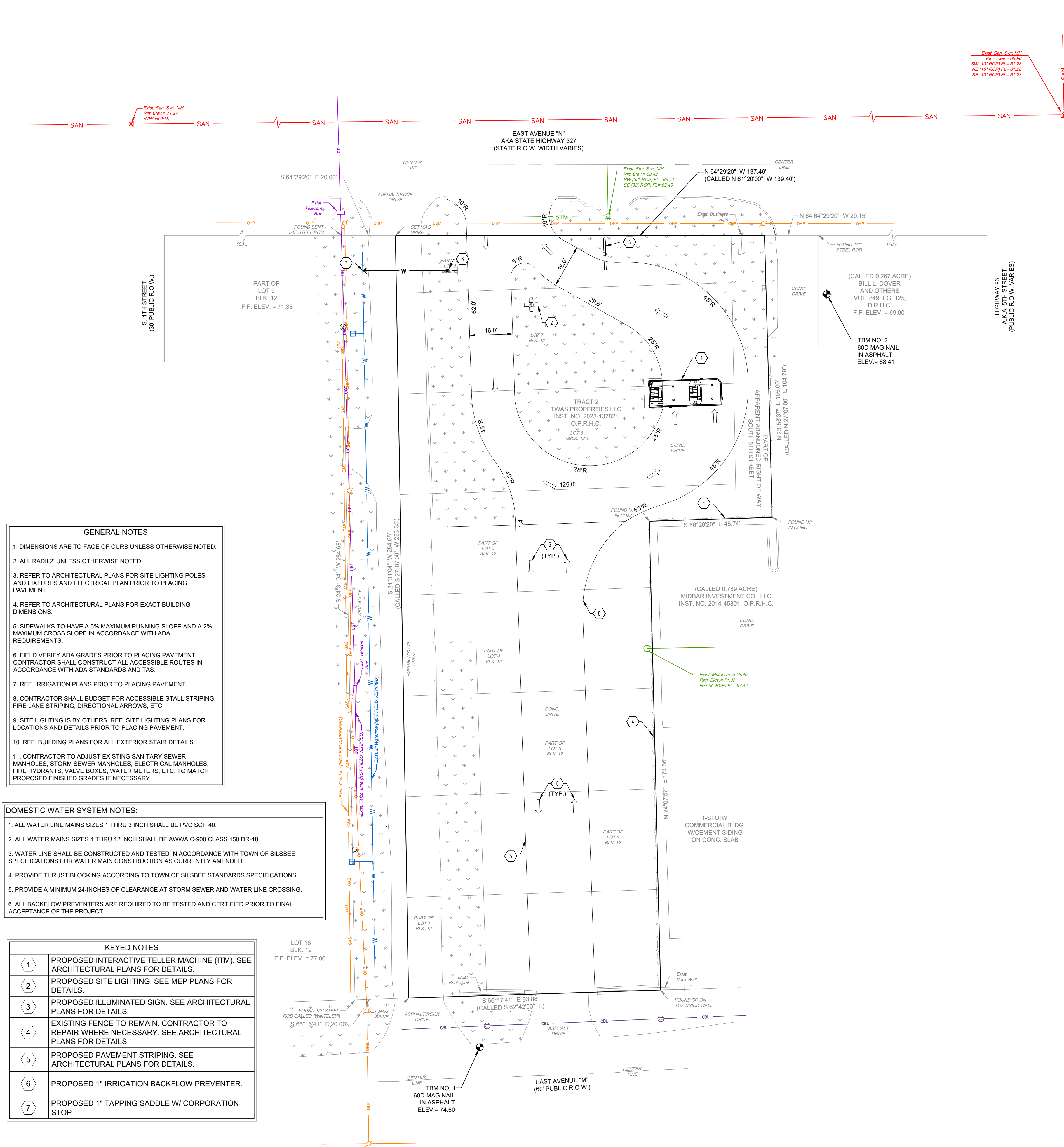
DEMOLITION PLAN

PRO-E PROJECT NO.: 1018-0017

SUBMITTED:	DESIGNED BY: KL
SCALE: 1" = 20'	DRAWN BY: SG
DATE: MARCH, 2026	SHEET NO. C3 OF C9
SURVEYED BY: SOUTEX SURVEYORS & ENGINEERS	CITY DWG NO.:

PRIVATE PLANS - NECHES FEDERAL CREDIT UNION - SILSBEE ITM - 135 HWY 327 E., SILSBEE, TEXAS 77656 - 1018-0017

User Name: kender
 Date: 03 Mar 2026 - 2:48pm
 Path Name: C:\Users\kender\OneDrive - moreconsulting\OneDrive\Projects\1018 - SU_Group\0017 - Neches FCD_Silbsee V2 CAD\Private\C4 Overall Site & Dimension Control Plan.dwg

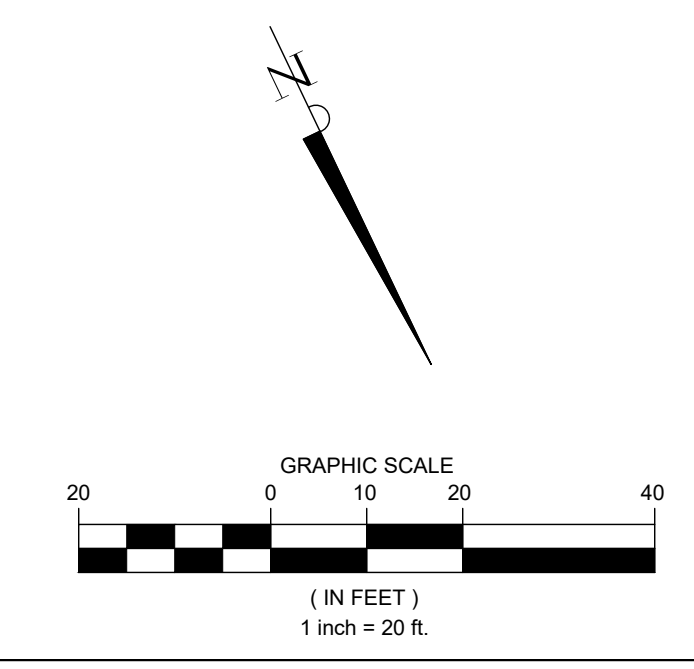


- GENERAL NOTES**
- DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 - ALL RADII 2' UNLESS OTHERWISE NOTED.
 - REFER TO ARCHITECTURAL PLANS FOR SITE LIGHTING POLES AND FIXTURES AND ELECTRICAL PLAN PRIOR TO PLACING PAVEMENT.
 - REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS.
 - SIDEWALKS TO HAVE A 5% MAXIMUM RUNNING SLOPE AND A 2% MAXIMUM CROSS SLOPE IN ACCORDANCE WITH ADA REQUIREMENTS.
 - FIELD VERIFY ADA GRADES PRIOR TO PLACING PAVEMENT. CONTRACTOR SHALL CONSTRUCT ALL ACCESSIBLE ROUTES IN ACCORDANCE WITH ADA STANDARDS AND T&S.
 - REF. IRRIGATION PLANS PRIOR TO PLACING PAVEMENT.
 - CONTRACTOR SHALL BUDGET FOR ACCESSIBLE STALL STRIPING, FIRE LANE STRIPING, DIRECTIONAL ARROWS, ETC.
 - SITE LIGHTING IS BY OTHERS. REF. SITE LIGHTING PLANS FOR LOCATIONS AND DETAILS PRIOR TO PLACING PAVEMENT.
 - REF. BUILDING PLANS FOR ALL EXTERIOR STAIR DETAILS.
 - CONTRACTOR TO ADJUST EXISTING SANITARY SEWER MANHOLES, STORM SEWER MANHOLES, ELECTRICAL MANHOLES, FIRE HYDRANTS, VALVE BOXES, WATER METERS, ETC. TO MATCH PROPOSED FINISHED GRADES IF NECESSARY.

- DOMESTIC WATER SYSTEM NOTES:**
- ALL WATER LINE MAINS SIZES 1 THRU 3 INCH SHALL BE PVC SCH 40.
 - ALL WATER MAINS SIZES 4 THRU 12 INCH SHALL BE AWWA C-900 CLASS 150 DR-18.
 - WATER LINE SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH TOWN OF SILSBEE SPECIFICATIONS FOR WATER MAIN CONSTRUCTION AS CURRENTLY AMENDED.
 - PROVIDE THRUST BLOCKING ACCORDING TO TOWN OF SILSBEE STANDARDS SPECIFICATIONS.
 - PROVIDE A MINIMUM 24-INCHES OF CLEARANCE AT STORM SEWER AND WATER LINE CROSSING.
 - ALL BACKFLOW PREVENTERS ARE REQUIRED TO BE TESTED AND CERTIFIED PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

KEYED NOTES	
1	PROPOSED INTERACTIVE TELLER MACHINE (ITM) SEE ARCHITECTURAL PLANS FOR DETAILS.
2	PROPOSED SITE LIGHTING. SEE MEP PLANS FOR DETAILS.
3	PROPOSED ILLUMINATED SIGN. SEE ARCHITECTURAL PLANS FOR DETAILS.
4	EXISTING FENCE TO REMAIN. CONTRACTOR TO REPAIR WHERE NECESSARY. SEE ARCHITECTURAL PLANS FOR DETAILS.
5	PROPOSED PAVEMENT STRIPING. SEE ARCHITECTURAL PLANS FOR DETAILS.
6	PROPOSED 1" IRRIGATION BACKFLOW PREVENTER.
7	PROPOSED 1" TAPPING SADDLE W/ CORPORATION STOP

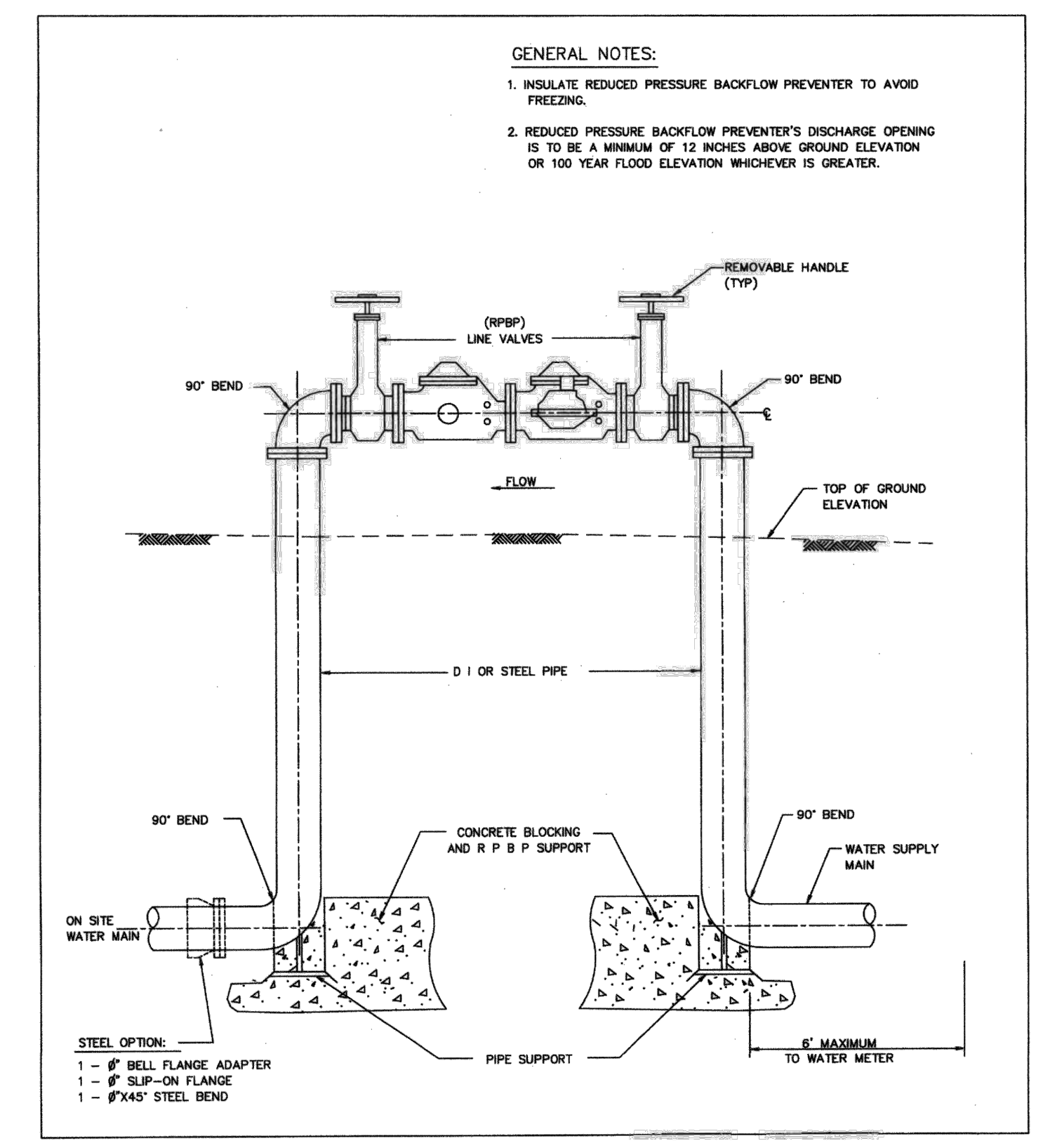
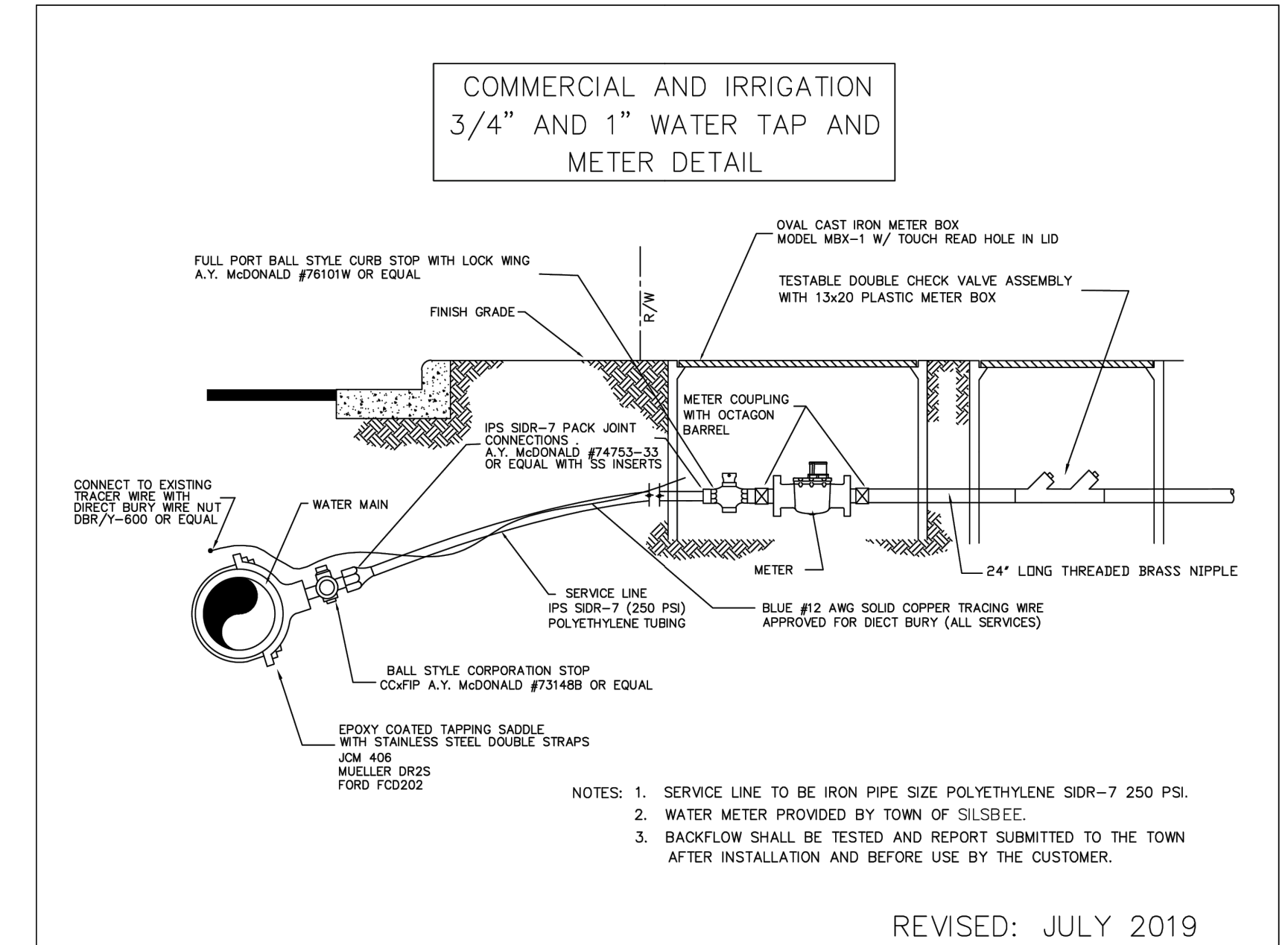
- KNOW WHAT'S BELOW. CALL BEFORE YOU DIG. CALL 811!**
- ALL LINES MUST BE FIELD VERIFIED
- CAUTION EXIST GAS FACILITIES IN AREA
- CONSTRUCTION NOTE:**
CONTRACTOR SHALL CONFIRM NO CONFLICTS BETWEEN EXISTING AND PROPOSED DRYWET UTILITIES IN PUBLIC R.O.W., BEFORE STARTING SITE WORK CONSTRUCTION.
- CONTRACTOR SHALL FIELD-VERIFY ALL EXISTING DIMENSIONS & CONDITIONS & SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES THAT MAY AFFECT THE WORK DESCRIBED HEREIN.
- NOTE:**
EXCESS SOIL MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR & IS TO BE DISPOSED OFFSITE RESPONSIBLY AT NO SEPARATE PAY.
- HYDROMULCH NOTE:**
CONTRACTOR SHALL HYDROMULCH ALL NEWLY GRADED AREAS AND EXPOSED SOILS UPON PAVING COMPLETION.



BENCHMARK NOTE:
ELEVATIONS SHOWN ARE NAVD88 ORTHOMETRIC HEIGHTS DERIVED USING GEOID18 AND ARE REFERENCED TO SMARTNET.NA.

BENCHMARK: TBM 1 ELEVATION: 74.50'
TBM No. 1 IS A 60D NAIL IN ASPHALT ±32 FEET NORTHWEST FROM THE NORTHEAST PROPERTY CORNER AND ±1 FEET SOUTH FROM CENTERLINE OF EAST AVENUE N.

BENCHMARK: TBM 2 ELEVATION: 68.41'
TBM No. 2 IS A 60D NAIL IN ASPHALT ±32 FEET NORTHWEST FROM THE SOUTHWEST PROPERTY CORNER AND ±48 FEET NORTH FROM CENTERLINE OF EAST AVENUE N.



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STATE OF TEXAS
 JUSTIN A. SCHLAEDER
 LICENSED PROFESSIONAL ENGINEER
 103758
 MAR 02 2026

DATE	REVISION

CONSTRUCTION PLANS FOR
NECHES FEDERAL CREDIT UNION - SILSBEE ITM
 (PRIVATE ON-SITE)
 PAVING, & DRAINAGE FACILITIES

135 HWY 327 E.,
 SILSBEE, TEXAS 77656

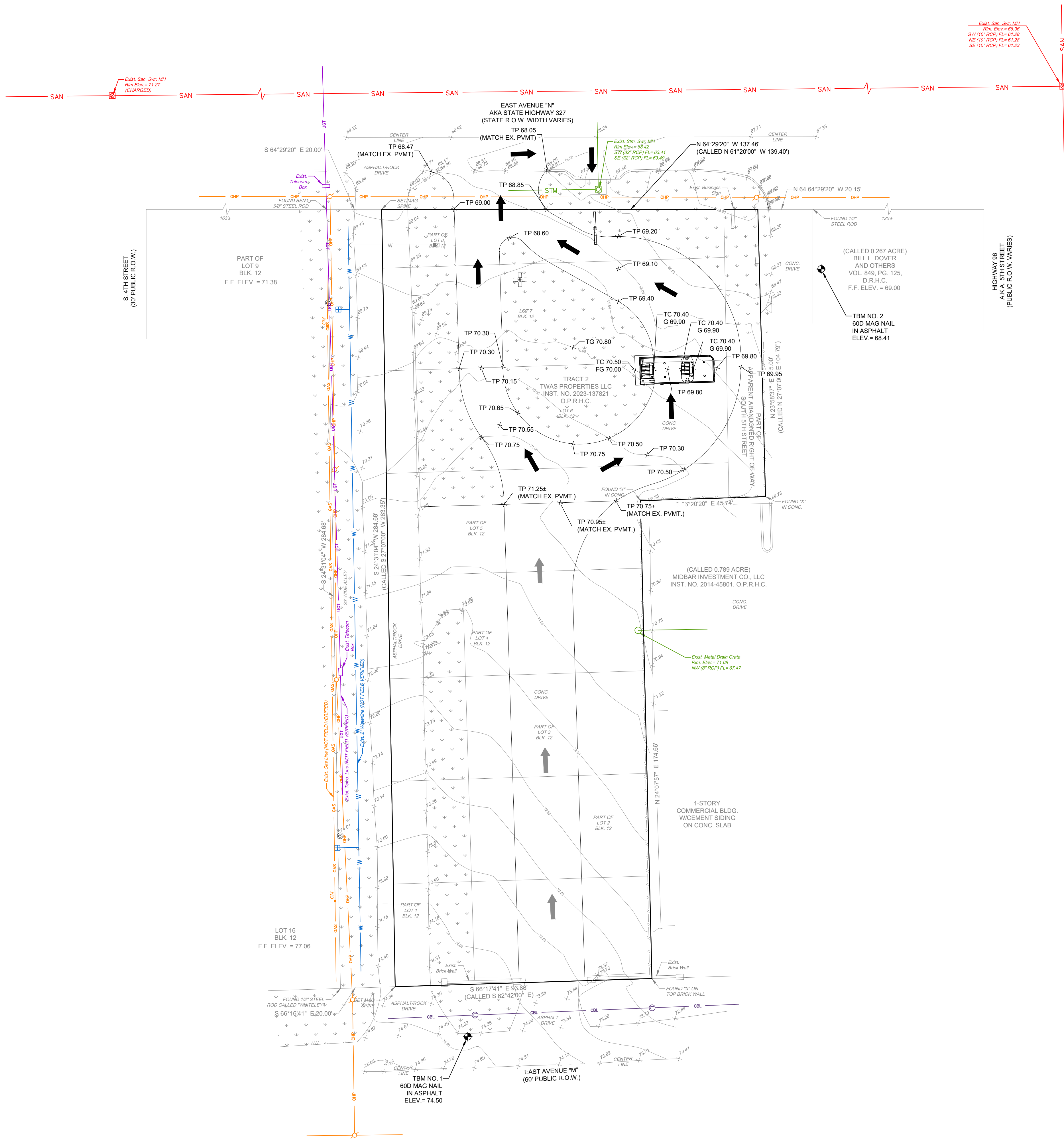
OVERALL SITE & DIMENSION CONTROL PLAN

PRO-E PROJECT NO.: 1018-0017

SUBMITTED:	DESIGNED BY: KL
SCALE: 1" = 20'	DRAWN BY: SG
DATE: MARCH, 2026	SHEET NO. C4 OF C9
SURVEYED BY: SOUTEX SURVEYORS & ENGINEERS	CITY DWG NO.:

PRIVATE PLANS - NECHES FEDERAL CREDIT UNION - SILSBEE ITM - 135 HWY 327 E., SILSBEE, TEXAS 77656 - 1018-0017

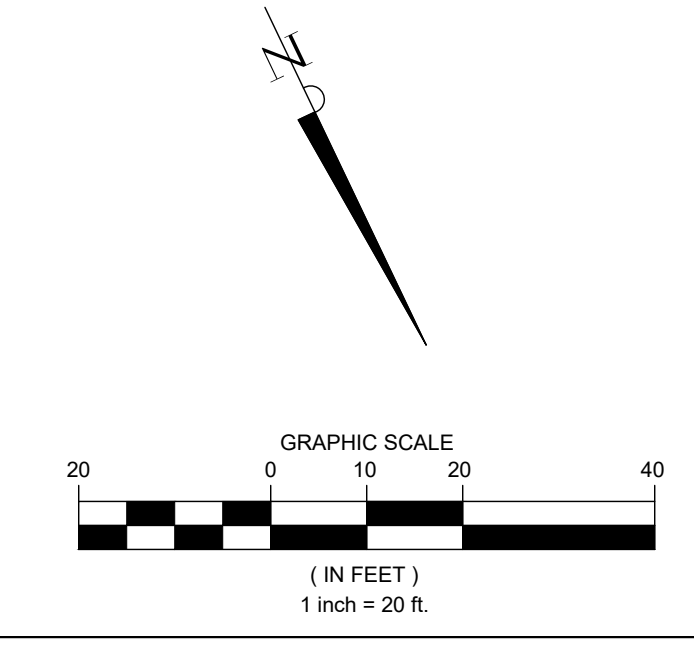
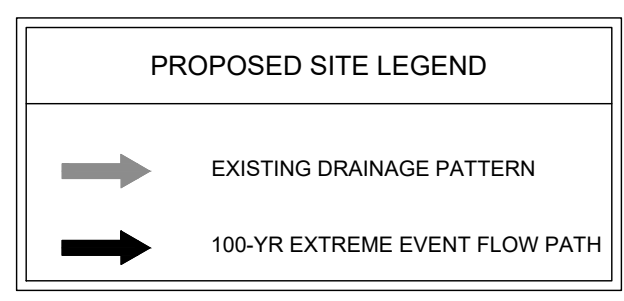
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- GENERAL NOTES:**
1. ANY PAVING INSTALLED OVER A UTILITY EASEMENT SHALL HAVE CONSTRUCTION JOINTS OR SAW CUTS ALONG THE ENTIRE EASEMENT LINE OF THE ENCROACHMENT AND TRAVERSE THE EASEMENT AT INTERVALS EQUAL TO OR LESS THAN 10 FOOT INCREMENTS.
 2. ALL PROPOSED CURBS ARE 6" TYPICAL, U.N.O. ON PLANS. CONTRACTOR SHALL CONTACT ENGINEER/ARCHITECT IF CURB DEPTH EXCEEDS 6". OVERHEAD AND UNDERGROUND UTILITIES MAY EXIST IN THE VICINITY OF THIS
 3. PROJECT LOCATIONS SHOWN FOR EXISTING UTILITIES ARE APPROXIMATE AND OTHER UTILITIES MAY EXIST IN THE VICINITY OF THE PROJECT WHICH ARE NOT SHOWN ON THE PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES IN THE VICINITY OF THE PROJECT, PRIOR TO BEGINNING CONSTRUCTION. IF ANY DISCREPANCIES EXIST, NOTIFY ENGINEER IMMEDIATELY.
 4. CONDITION OF THE ROAD AND/OR RIGHT-OF WAY, UPON COMPLETION OF JOB SHALL BE AS GOOD AS OR BETTER THAN PRIOR TO STARTING WORK.
 5. EXISTING PRIVATE AND PUBLIC GREEN AREAS, UTILITIES, PAVEMENTS, CURBS, DRIVEWAYS AND SIDEWALKS DAMAGED OR REMOVED DURING CONSTRUCTION OR AS A RESULT OF CONSTRUCTION SHALL BE REPLACED TO THE CITY OF ORANGE STANDARDS.

- GRADING NOTES:**
1. CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION AS TO NOT IMPACT ADJACENT / NEIGHBORING PROPERTIES.
 2. ANY AREAS OF GRASS WITHIN THE CITY'S RIGHT OF WAY WHICH ARE DISTURBED OR DUG UP DURING CONSTRUCTION SHALL BE REPLACED WITH ST. AUGUSTINE OR GRASS WHICH MATCHED THE GRASS REMOVED.
 3. ANY DRAINAGE TO EXISTING ROADS, DRIVEWAYS, SIDEWALKS, OR OTHER APPURTENANCES WITHIN THE CITY'S RIGHT OF WAY SHALL BE SAW CUT, REMOVED AND REPLACED WITH MATERIALS EQUAL TO OR SUPERIOR MATERIAL, AND MUST BE INSTALLED TO CITY STANDARDS.
 4. ALL SURFACE ORGANIC, TOPSOIL AND UNSUITABLE MATERIAL SHALL BE STRIPPED FROM ALL PROPOSED BUILDING AND PAVING AREAS.
 5. ALL TREE-STUMPS THAT ARE TO BE REMOVED SHALL BE DONE THOROUGHLY BY REMOVING ALL THE ROOTS AND FILLING UP THE VOID WITH SELECT FILL AND COMPACTED PRIOR TO CONSTRUCTION.
 6. PROOF ROLL THE SUBGRADE TO DETECT ANY WET, SOFT OR PUMPING AREAS. TREAT THESE AREAS WITH DRYING/STABILIZING AGENTS AS NECESSARY OR REMOVE & REPLACE THEM WITH SELECT FILL.
 7. COMPACT THE SUBGRADE TO A MINIMUM OF 95% OF ITS DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM D 698).
 8. ADDITIONAL FILL MATERIAL WITHIN THE BUILDING AREA SHOULD BE SILTY OR SANDY CLAY HAVING A PLASTICITY INDEX (PI) OF 10 - 20 & A LIQUID LIMIT OF 28 OR MORE. SILL MATERIALS SHOULD BE PLACED IN 6 TO 8 INCH LIFTS & COMPACTED AT OPTIMUM MOISTURE CONTENT TO 98% OF THEIR MAXIMUM DRY DENSITY AS DETERMINED BY STANDARD PROCTOR COMPACTION TEST (ASTM D 698).

NOTE:
 REFERENCE GEOTECHNICAL REPORT FOR PROJECT SPECIFIC REINFORCEMENT SCHEDULE AND PAVEMENT SUBGRADE PREPARATION INFORMATION.



BENCHMARK NOTE:
 ELEVATIONS SHOWN ARE NAVD88 ORTHOMETRIC HEIGHTS DERIVED USING GEOID18 AND ARE REFERENCED TO SMARTNET, NA.

BENCHMARK: TBM 1 ELEVATION: 74.50'
 TBM No. 1 IS A 60D NAIL IN ASPHALT ±32 FEET NORTHWEST FROM THE NORTHEAST PROPERTY CORNER AND ±11 FEET SOUTH FROM CENTERLINE OF EAST AVENUE N.

BENCHMARK: TBM 2 ELEVATION: 68.41'
 TBM No. 2 IS A 60D NAIL IN ASPHALT ±32 FEET NORTHWEST FROM THE SOUTHWEST PROPERTY CORNER AND ±48 FEET NORTH FROM CENTERLINE OF EAST AVENUE N.

FLOOD STATEMENT:
 IN ACCORDANCE WITH THE FLOOD INSURANCE RATE MAP OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY, MAP REFERENCE SHOWN, THE SUBJECT TRACT LIES IN FLOOD ZONE "X". LOCATION ON MAP WAS DETERMINED BY SCALE.

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 1334 Brittmoore Road
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 Houston, TX 77043
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 www.pro.consulting



DATE	REVISION

CONSTRUCTION PLANS FOR
NECHES FEDERAL CREDIT UNION - SILSBEE ITM
 (PRIVATE ON-SITE)
 PAVING, & DRAINAGE FACILITIES

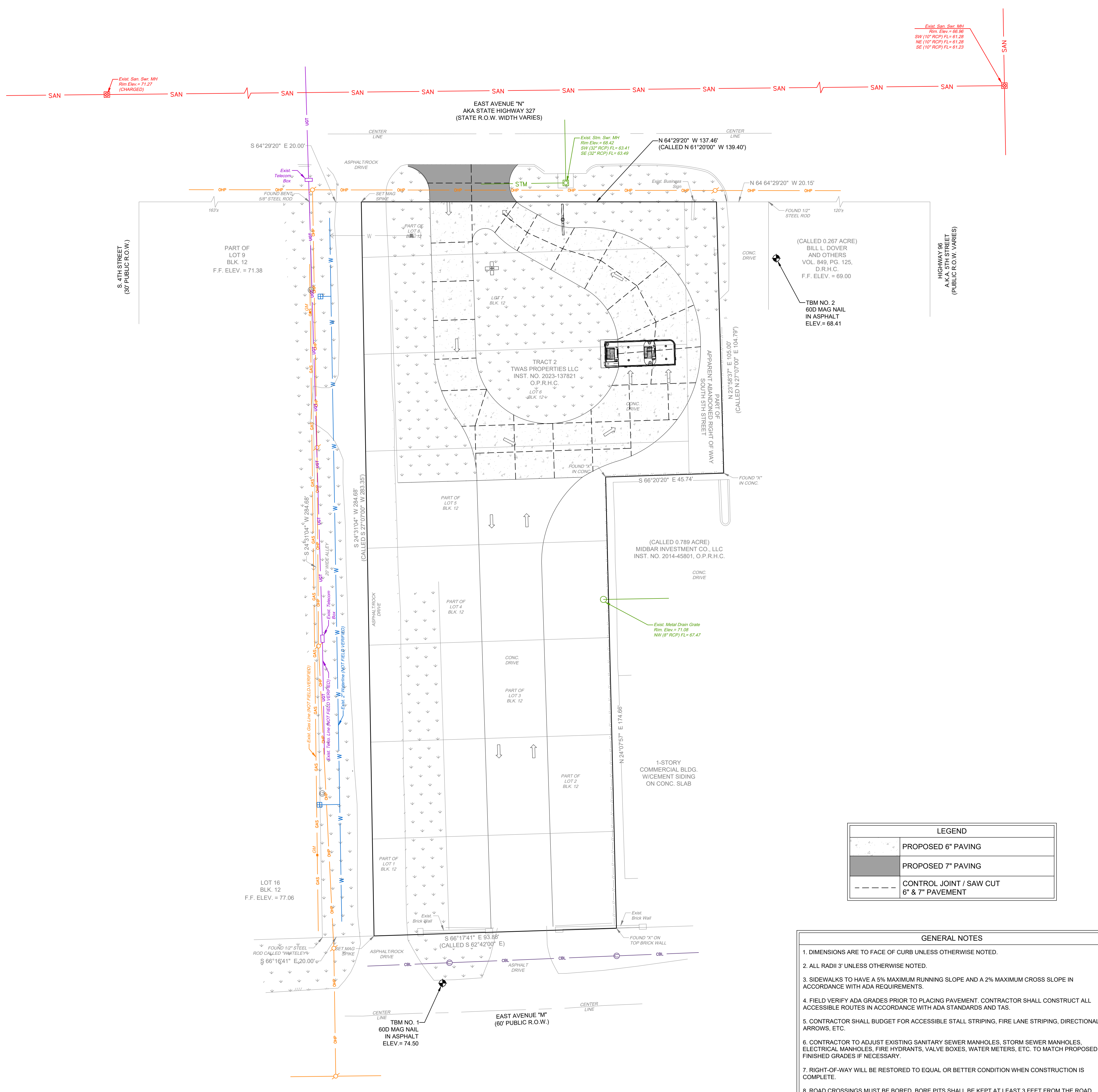
135 HWY 327 E.,
 SILSBEE, TEXAS 77656

GRADING PLAN

PRO-E PROJECT NO.: 1018-0017	
SUBMITTED:	DESIGNED BY: KL
SCALE: 1" = 20'	DRAWN BY: SG
DATE: MARCH, 2026	SHEET NO. C5 OF C9
SURVEYED BY: SOUTEX SURVEYORS & ENGINEERS	CITY DWG NO.:

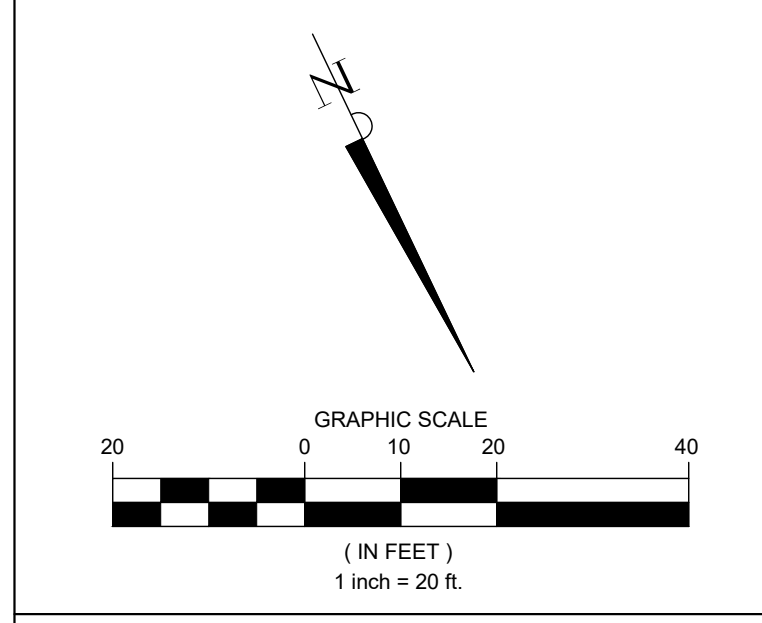
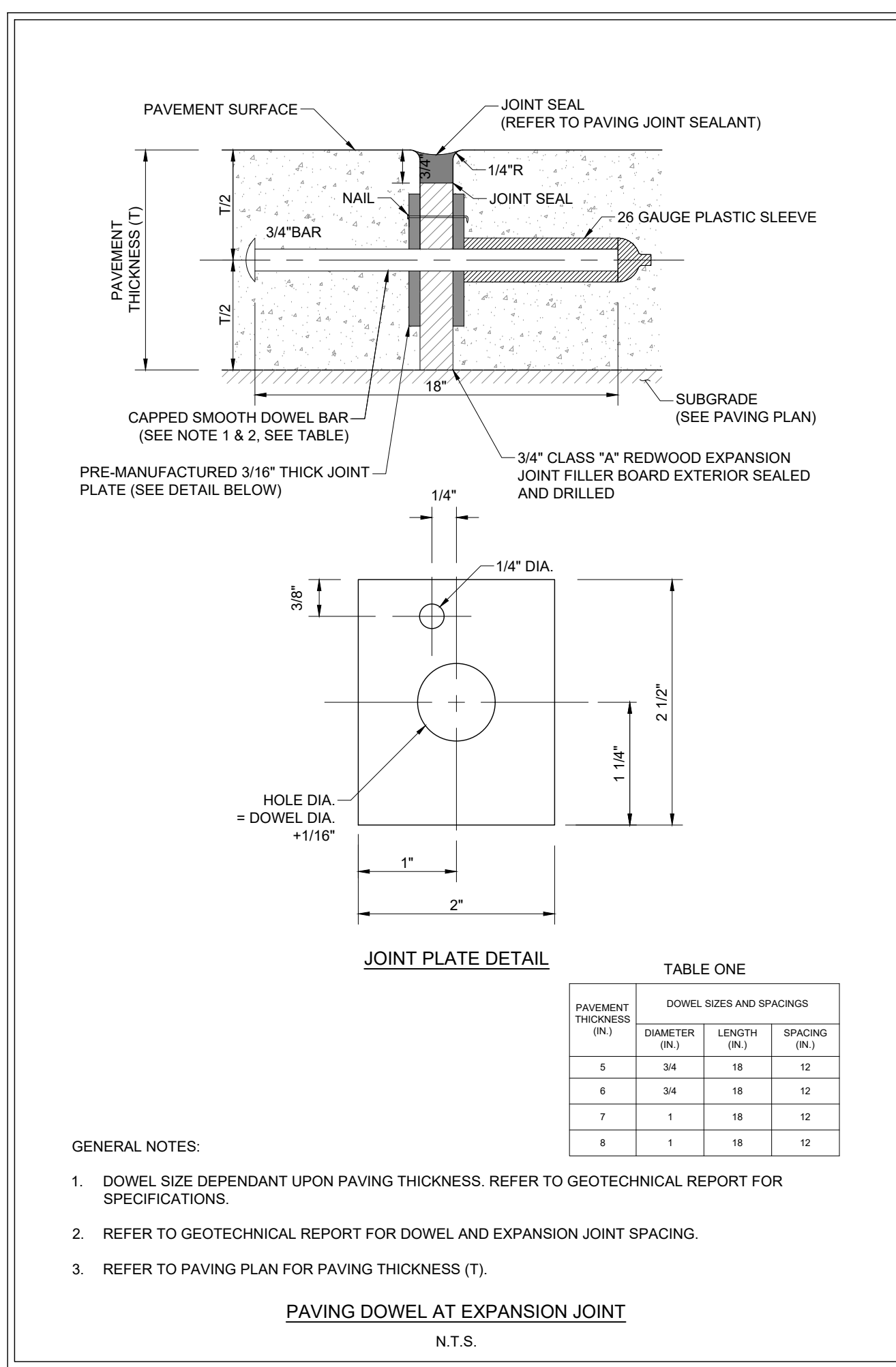
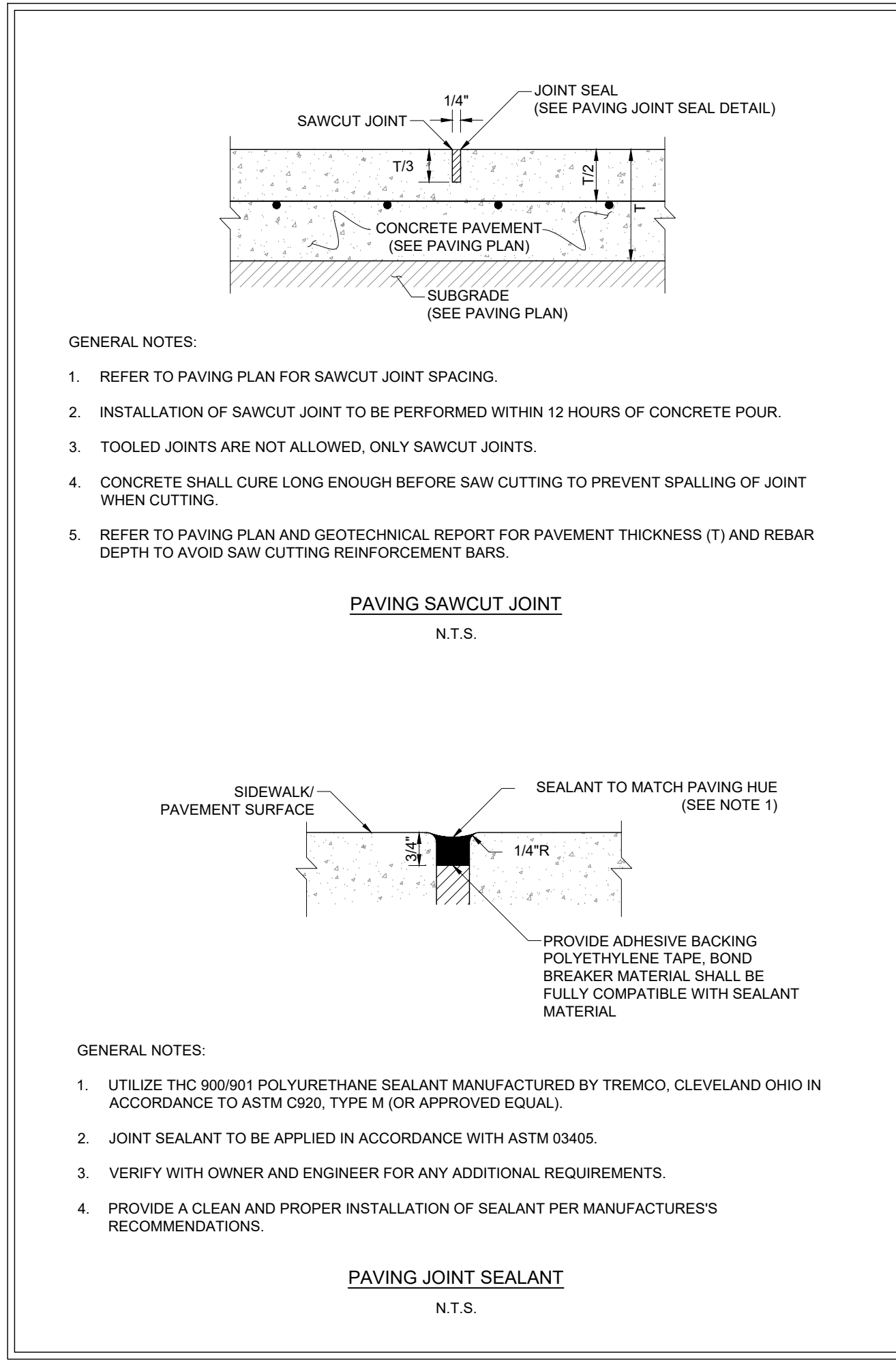
PRIVATE PLANS - NECHES FEDERAL CREDIT UNION - SILSBEE ITM - 135 HWY 327 E., SILSBEE, TEXAS 77656 : 1018-0017

User Name: kender
 Date: 03 Mar 2026 2:48pm
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LEGEND	
	PROPOSED 6" PAVING
	PROPOSED 7" PAVING
	CONTROL JOINT / SAW CUT 6" & 7" PAVEMENT

- GENERAL NOTES**
- DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 - ALL RADII 3' UNLESS OTHERWISE NOTED.
 - SIDEWALKS TO HAVE A 5% MAXIMUM RUNNING SLOPE AND A 2% MAXIMUM CROSS SLOPE IN ACCORDANCE WITH ADA REQUIREMENTS.
 - FIELD VERIFY ADA GRADES PRIOR TO PLACING PAVEMENT. CONTRACTOR SHALL CONSTRUCT ALL ACCESSIBLE ROUTES IN ACCORDANCE WITH ADA STANDARDS AND TAS.
 - CONTRACTOR SHALL BUDGET FOR ACCESSIBLE STALL STRIPING, FIRE LANE STRIPING, DIRECTIONAL ARROWS, ETC.
 - CONTRACTOR TO ADJUST EXISTING SANITARY SEWER MANHOLES, STORM SEWER MANHOLES, ELECTRICAL MANHOLES, FIRE HYDRANTS, VALVE BOXES, WATER METERS, ETC. TO MATCH PROPOSED FINISHED GRADES IF NECESSARY.
 - RIGHT-OF-WAY WILL BE RESTORED TO EQUAL OR BETTER CONDITION WHEN CONSTRUCTION IS COMPLETE.
 - ROAD CROSSINGS MUST BE BORED. BORE PITS SHALL BE KEPT AT LEAST 3 FEET FROM THE ROAD.



BENCHMARK NOTE:
ELEVATIONS SHOWN ARE NAVD88 ORTHOMETRIC HEIGHTS DERIVED USING GEOID18 AND ARE REFERENCED TO SMARTNET. N.

BENCHMARK: TBM 1 ELEVATION: 74.50'
TBM No. 1 IS A 60D NAIL IN ASPHALT ±32 FEET NORTHWEST FROM THE NORTHEAST PROPERTY CORNER AND ±11 FEET SOUTH FROM CENTERLINE OF EAST AVENUE N.

BENCHMARK: TBM 2 ELEVATION: 68.41'
TBM No. 2 IS A 60D NAIL IN ASPHALT ±32 FEET NORTHWEST FROM THE SOUTHWEST PROPERTY CORNER AND ±48 FEET NORTH FROM CENTERLINE OF EAST AVENUE N.

FLOOD STATEMENT:
IN ACCORDANCE WITH THE FLOOD INSURANCE RATE MAP OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY, MAP REFERENCE SHOWN, THE SUBJECT TRACT LIES IN FLOOD ZONE "X". LOCATION ON MAP WAS DETERMINED BY SCALE.

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Suite # 2808
Houston, TX 77043
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STATE OF TEXAS
JUSTIN A. SCHRAEDER
103758
MARCH 02 2026
Professional Engineer

DATE	REVISION

CONSTRUCTION PLANS FOR
NECHES FEDERAL CREDIT UNION - SILSBEE ITM
(PRIVATE ON-SITE)
PAVING, & DRAINAGE FACILITIES

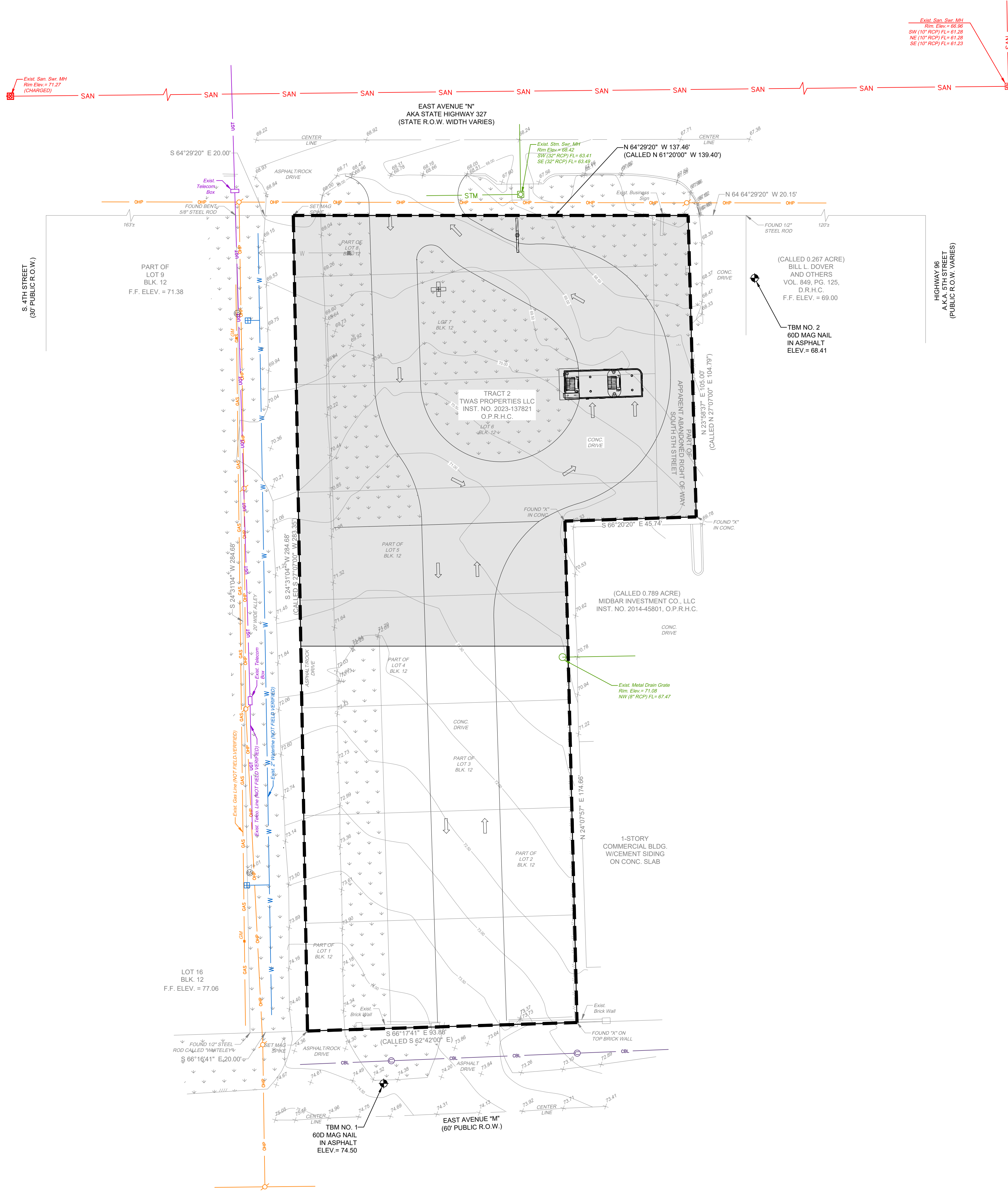
135 HWY 327 E.,
SILSBEE, TEXAS 77656

PAVING & CONTROL JOINT PLAN

PRO-E PROJECT NO.: 1018-0017

SUBMITTED:	DESIGNED BY: KL
SCALE: 1" = 20'	DRAWN BY: SG
DATE: MARCH, 2026	SHEET NO. C6 OF C9
SURVEYED BY: SOUTEX SURVEYORS & ENGINEERS	CITY DWG NO.:

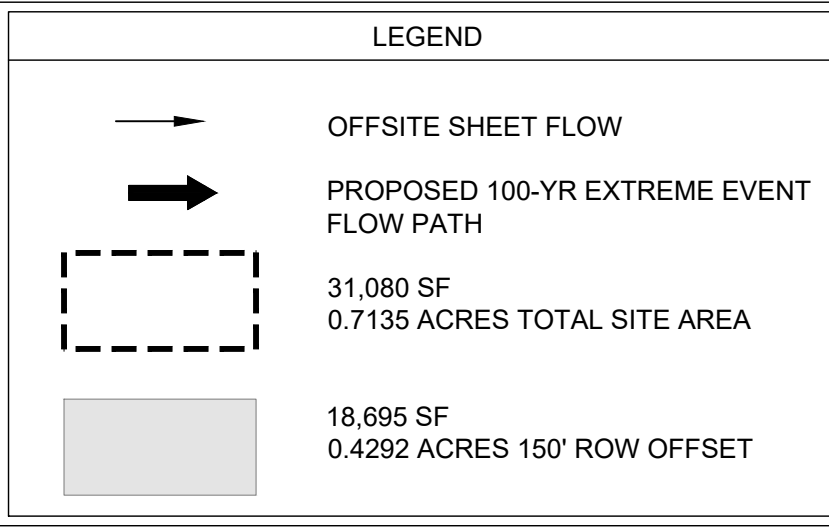
PRIVATE PLANS - NECHES FEDERAL CREDIT UNION - SILSBEE ITM - 135 HWY 327 E., SILSBEE, TEXAS 77656 : 1018-0017



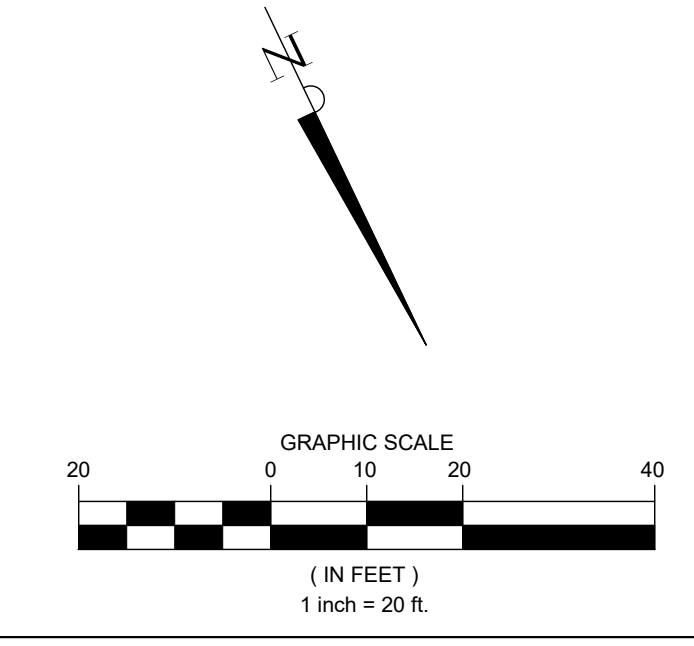
**KNOW WHAT'S BELOW.
 CALL BEFORE YOU DIG. CALL 811!!**

**CAUTION!!
 EXISTING GAS FACILITIES IN AREA**

- EXISTING UTILITIES, FACILITIES & TREES NOTES:**
1. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
 2. CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY 48 HOURS PRIOR TO EXCAVATING NEAR THEIR UTILITY.
 3. CONTRACTOR SHALL TAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF CONSTRUCTION OPERATIONS WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
 4. CONTRACTOR SHALL TAKE EXTRA CARE TO PROTECT TREES IN AREAS ADJACENT TO CONSTRUCTION.



Total Site Area	= 0.7135 AC	= 31,080 SF
Site Area (150-FT into Site)	= 0.4292 AC	= 18,695 SF
Existing Impervious Cover Analysis		
Existing Grass	= 6,179 SF	C1 = 0.2
Existing Pavement	= 19,094 SF	C2 = 0.9
C _a	= 0.039762	
C	= 0.65	(applied to 150-ft into property along site frontage)
Proposed Impervious Cover Analysis		
Proposed Grass	= 1,644 SF	C1 = 0.2
Proposed Pavement	= 3,243 SF	C2 = 0.9
C _w	= 0.10	
Rainfall Intensity, I		
I ₂	= 5.76 in/hr	
I ₁₀	= 8.39 in/hr	
I ₁₀₀	= 12.40 in/hr	
Allowable Site Discharge (C=0.65, A=0.727 AC)		
Q ₂	= 1.61 CFS	
Q ₁₀	= 2.34 CFS	
Q ₁₀₀	= 3.46 CFS	
Proposed Site Discharge (C=0.26, A=1.481 AC)		
Q ₂	= 0.43 CFS	
Q ₁₀	= 0.63 CFS	
Q ₁₀₀	= 0.92 CFS	

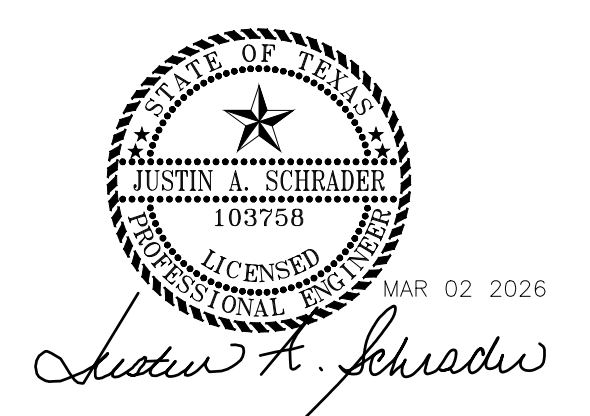


BENCHMARK NOTE:
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BENCHMARK: TBM 1 ELEVATION: 74.50'
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BENCHMARK: TBM 2 ELEVATION: 68.41'
 TBM No. 2 IS A 60D NAIL IN ASPHALT ±32 FEET NORTHWEST FROM THE SOUTHWEST PROPERTY CORNER AND ±48 FEET NORTH FROM CENTERLINE OF EAST AVENUE N.

FLOOD STATEMENT:
 IN ACCORDANCE WITH THE FLOOD INSURANCE RATE MAP OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY, MAP REFERENCE SHOWN, THE SUBJECT TRACT LIES IN FLOOD ZONE "X". LOCATION ON MAP WAS DETERMINED BY SCALE.



DATE	REVISION

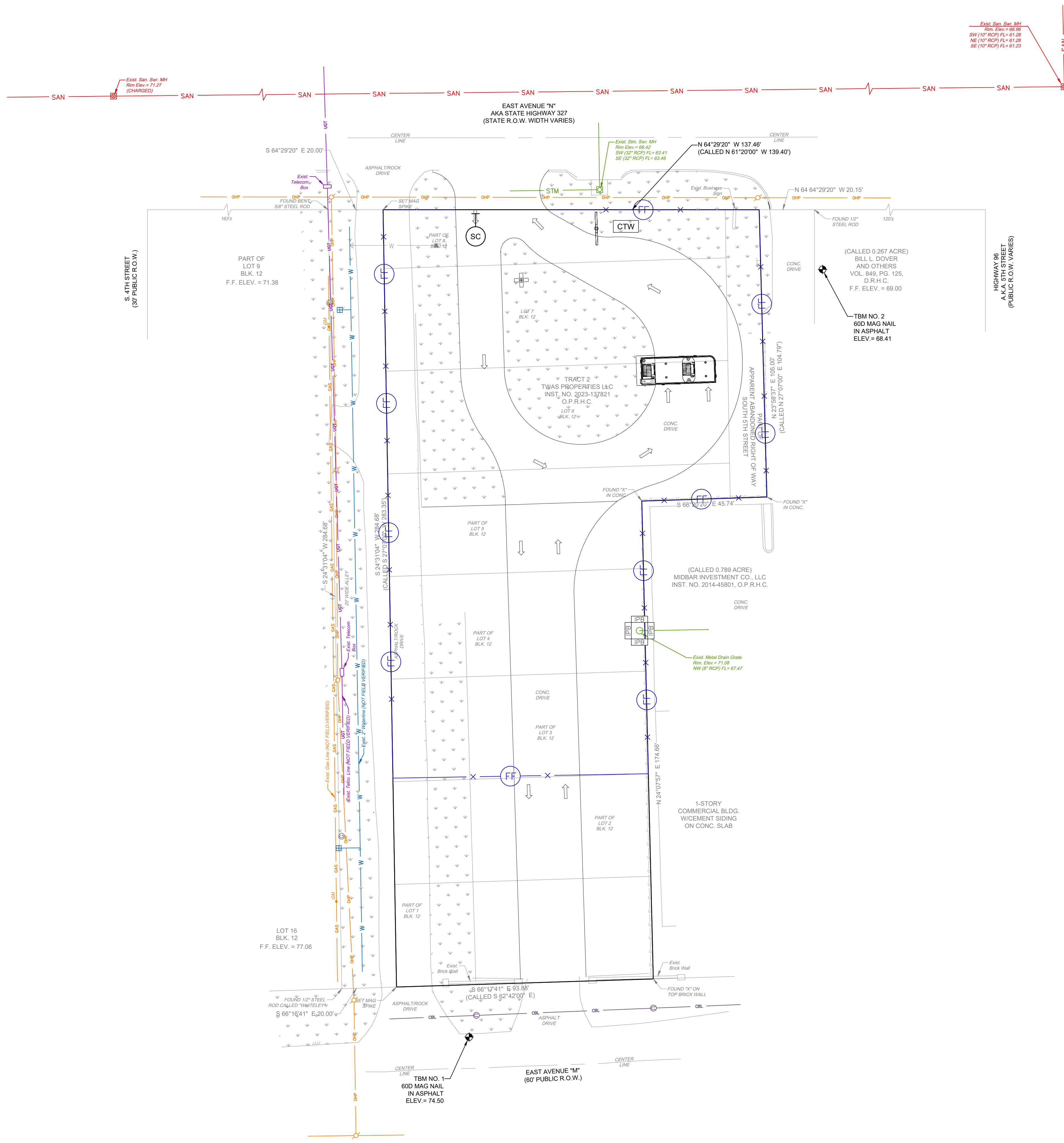
CONSTRUCTION PLANS FOR
NECHES FEDERAL CREDIT UNION - SILSBEE ITM
 (PRIVATE ON-SITE)
 PAVING, & DRAINAGE FACILITIES

135 HWY 327 E.,
 SILSBEE, TEXAS 77656

DRAINAGE ANALYSIS

PRO-E PROJECT NO.: 1018-0017	
SUBMITTED:	DESIGNED BY: KL
SCALE: 1" = 20'	DRAWN BY: SG
DATE: MARCH, 2026	SHEET NO. C7 OF C9
SURVEYED BY: SOUTEX SURVEYORS & ENGINEERS	CITY DWG NO.:

User Name: kendir
 Date: 03 Mar 2026 - 2:48pm
 Path Name: C:\Users\kendir\OneDrive - proeconsulting.com\OneDrive - proeconsulting.com\Projects\1018 - SU Group\0017 - Neches FGD Silsbee\2 CAD\Private\CB Storm Water Pollution Prevention Map.dwg



SYMBOL	DESCRIPTION
	FILTER FABRIC FENCE
	REINFORCED FILTER FABRIC FENCE
	STAGE I AND STAGE II INLET PROTECTION BARRIER
	STABILIZED CONSTRUCTION ACCESS
	CONCRETE TRUCK WASHOUT AREA
	FILTER DAM

HYDROMULCH NOTE:
 CONTRACTOR SHALL HYDROMULCH ALL NEWLY GRADED AREAS AND EXPOSED SOILS UPON PAVING COMPLETION.

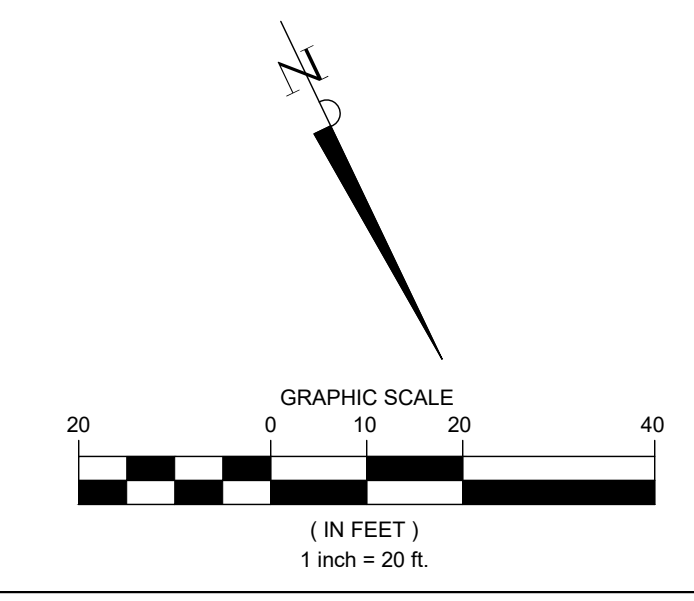
CONSTRUCTION NOTE:
 CONTRACTOR SHALL CONFIRM NO CONFLICTS BETWEEN EXISTING AND PROPOSED DRYWET UTILITIES IN PUBLIC R.O.W., BEFORE STARTING SITE WORK CONSTRUCTION.

NOTE:
 EXCESS SOIL MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR & IS TO BE DISPOSED OFF SITE RESPONSIBLY AT NO SEPARATE PAY.

KNOW WHAT'S BELOW. CALL BEFORE YOU DIG. CALL 811!

ALL LINES MUST BE FIELD VERIFIED

CAUTION EXIST GAS FACILITIES IN AREA



BENCHMARK NOTE:
 ELEVATIONS SHOWN ARE NAVD88 ORTHOMETRIC HEIGHTS DERIVED USING GEOID18 AND ARE REFERENCED TO SMARTNET, NA.

BENCHMARK: TBM 1 ELEVATION: 74.50'
 TBM No. 1 IS A 60D NAIL IN ASPHALT ±32 FEET NORTHWEST FROM THE NORTHEAST PROPERTY CORNER AND ±11 FEET SOUTH FROM CENTERLINE OF EAST AVENUE M.

BENCHMARK: TBM 2 ELEVATION: 68.41'
 TBM No. 2 IS A 60D NAIL IN ASPHALT ±32 FEET NORTHWEST FROM THE SOUTHWEST PROPERTY CORNER AND ±48 FEET NORTH FROM CENTERLINE OF EAST AVENUE N.

FLOOD STATEMENT:
 IN ACCORDANCE WITH THE FLOOD INSURANCE RATE MAP OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY, MAP REFERENCE SHOWN, THE SUBJECT TRACT LIES IN FLOOD ZONE "X". LOCATION ON MAP WAS DETERMINED BY SCALE.

PRO CONSULTING
 1334 Britton Road Suite # 2808
 Houston, TX 77043
 Firm License F-21665
 www.proeconsulting.com

DATE	REVISION

CONSTRUCTION PLANS FOR
NECHES FEDERAL CREDIT UNION - SILSBEE ITM
 (PRIVATE ON-SITE)
 PAVING, & DRAINAGE FACILITIES

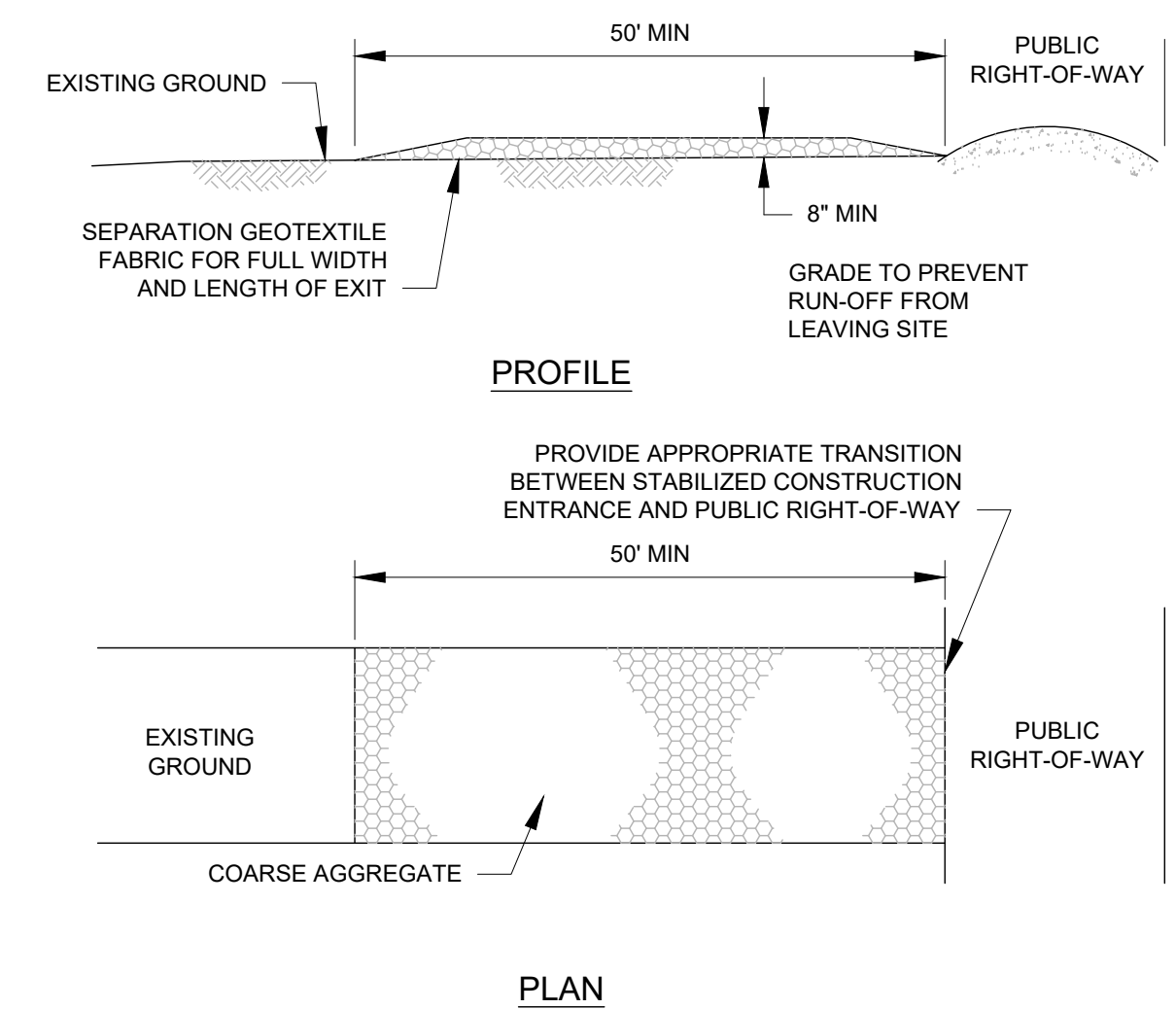
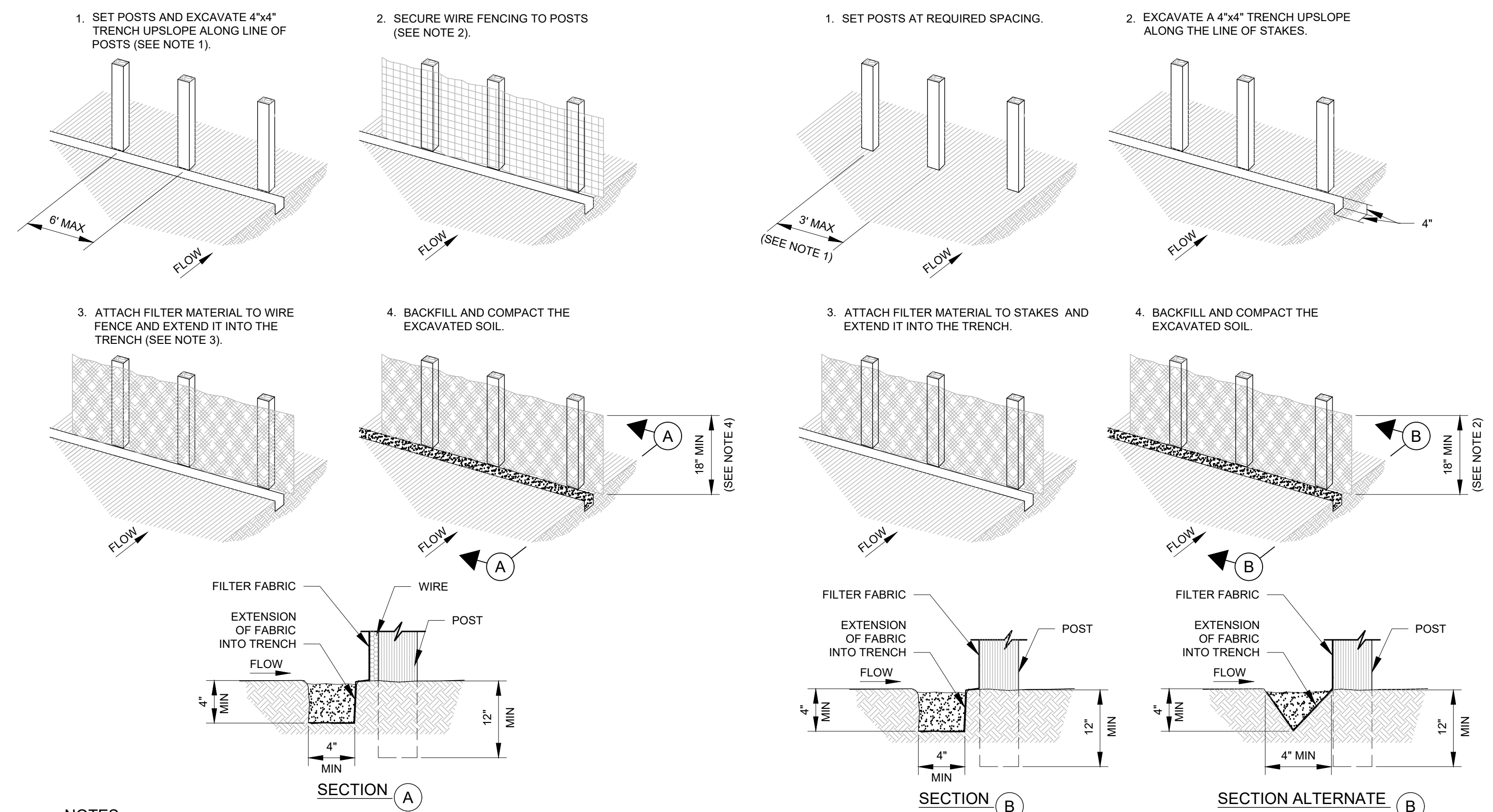
135 HWY 327 E.,
 SILSBEE, TEXAS 77656

STORM WATER POLLUTION PREVENTION MAP

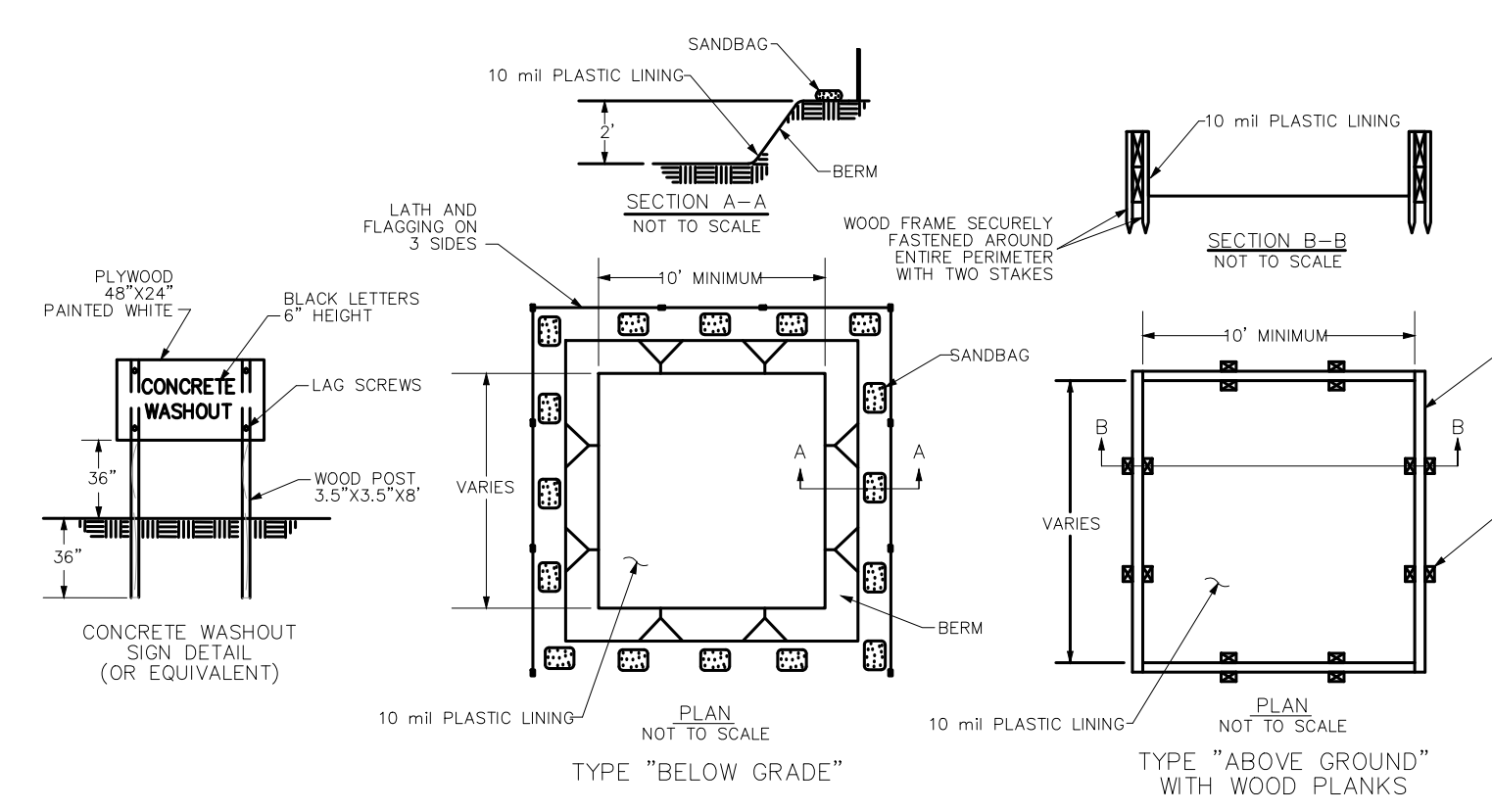
PRO-E PROJECT NO.: 1018-0017	
SUBMITTED:	DESIGNED BY: KL
SCALE: 1" = 20'	DRAWN BY: SG
DATE: MARCH, 2026	SHEET NO. C8 OF C9
SURVEYED BY: SOUTEX SURVEYORS & ENGINEERS	CITY DWG NO.:

PRIVATE PLANS - NECHES FEDERAL CREDIT UNION - SILSBEE ITM - 135 HWY 327 E., SILSBEE, TEXAS 77656 - 1018-0017

User Name: kender
 Date: 03 Mar 2026 - 2:48pm
 Path Name: C:\Users\kender\OneDrive - proeconsulting.com\OneDrive - proeconsulting.com\Projects\1018 - SU Group\0017 - Neches FGD_Silsbee_V2_CAD\Private\C9 STORM WATER POLLUTION PREVENTION MAP DETAILS.dwg



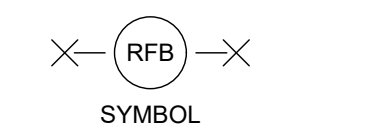
- NOTES**
- LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS, BUT NOT LESS THAN 50 FEET.
 - THICKNESS SHALL BE NOT LESS THAN 8 INCHES.
 - WIDTH SHALL BE NOT LESS FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
 - STABILIZATION FOR OTHER AREAS SHALL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.
 - STABILIZED AREA MAY BE WIDENED OR LENGTHENED TO ACCOMMODATE A TRUCK WASHING AREA. AN OUTLET SEDIMENT TRAP MUST BE PROVIDED FOR THE TRUCK WASHING AREA.
 - STABILIZED CONSTRUCTION EXIT SHALL BE MAINTAINED FREE OF SEDIMENT FOR THE DURATION OF THE PROJECT.



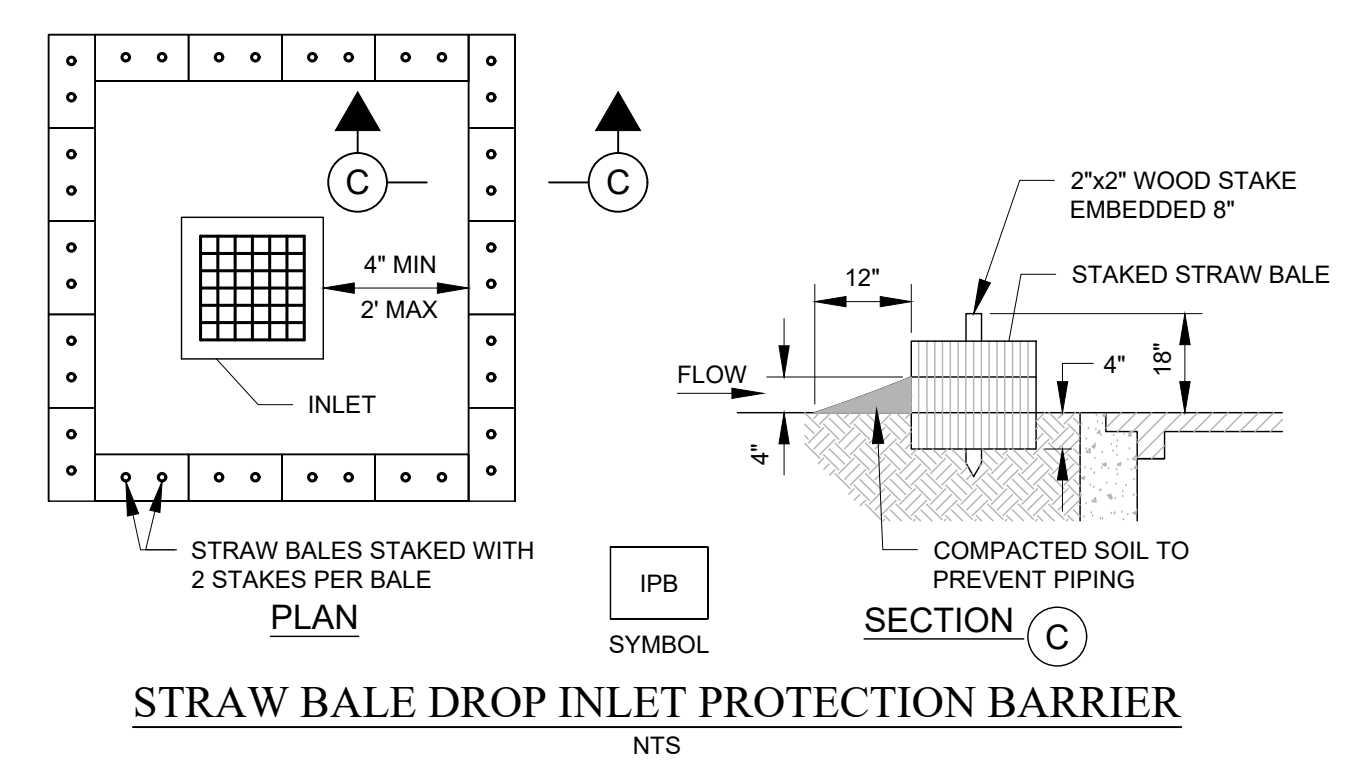
- NOTES:**
- CONCRETE WASHOUT FACILITIES ARE TO BE LOCATED AT LEAST 50' FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, OR WATER BODIES.
 - A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE CONCRETE WASHOUT FACILITY.
 - ONCE 75% OF THE ORIGINAL VOLUME OF THE WASHOUT PIT IS FILLED OR IF THE LINER IS TORN, THE MATERIAL MUST BE REMOVED AND PROPERLY DISPOSED OF ONCE IT IS COMPLETELY HARDENED. ONCE THE HARDENED CONCRETE IS REMOVED, THE LINER MUST BE REPLACED (IF SUITABLE). A NEW PIT MUST BE CONSTRUCTED IF THE ORIGINAL STRUCTURE IS NO LONGER SUITABLE.
 - ONCE THE PIT IS NO LONGER NEEDED, ENSURE ALL WASHOUT MATERIAL HAS COMPLETELY HARDENED, THEN REMOVE AND PROPERLY DISPOSE OF ALL MATERIALS.

CONCRETE TRUCK WASHOUT
NTS

- NOTES**
- SET 2 INCH BY 2 INCH WOODEN STAKES SPACE A MAX OF 6 FEET APART AND EMBEDDED A MIN OF 12 INCHES.
 - WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH STAPLES.
 - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE, WITH TIES SPACED EVERY 24 INCHES AT TOP AND MIDSECTION.
 - MINIMUM HEIGHT OF FILTER SHOULD BE 18 INCHES AND A MAXIMUM OF 36 INCHES ABOVE NATURAL GROUND.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED 6 INCHES AT THE POSTS AND FOLDED.

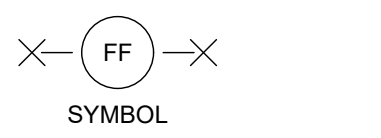


REINFORCED FILTER FABRIC BARRIER
NTS

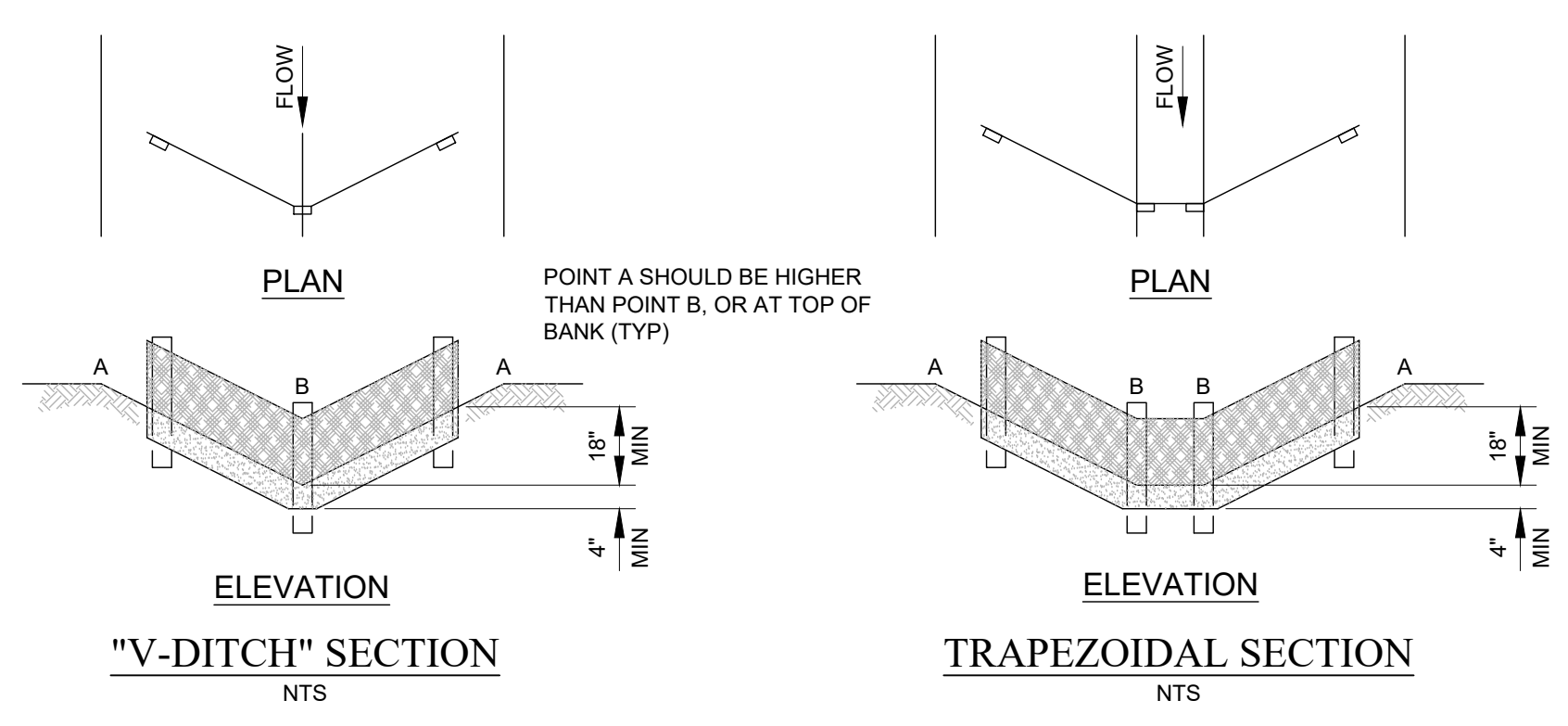


STRAW BALE DROP INLET PROTECTION BARRIER
NTS

- NOTES**
- 2 INCH THICK BY 2 INCH WOODEN STAKES TO BE SET AT MAX SPACING OF 3 FEET AND EMBEDDED A MIN OF 8 INCHES. IF PRE ASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAX.
 - ATTACH FILTER FABRIC TO WOODEN STAKES. FILTER FABRIC FENCE SHALL HAVE A MIN HEIGHT OF 18 INCHES AND MAX HEIGHT OF 36 INCHES ABOVE NATURAL GROUND.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHOULD BE OVERLAPPED 6 INCHES AT THE POSTS AND FOLDED.
 - MINIMUM HEIGHT OF FILTER SHOULD BE 18 INCHES AND A MAXIMUM OF 36 INCHES ABOVE NATURAL GROUND.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED 6 INCHES AT THE POSTS AND FOLDED.



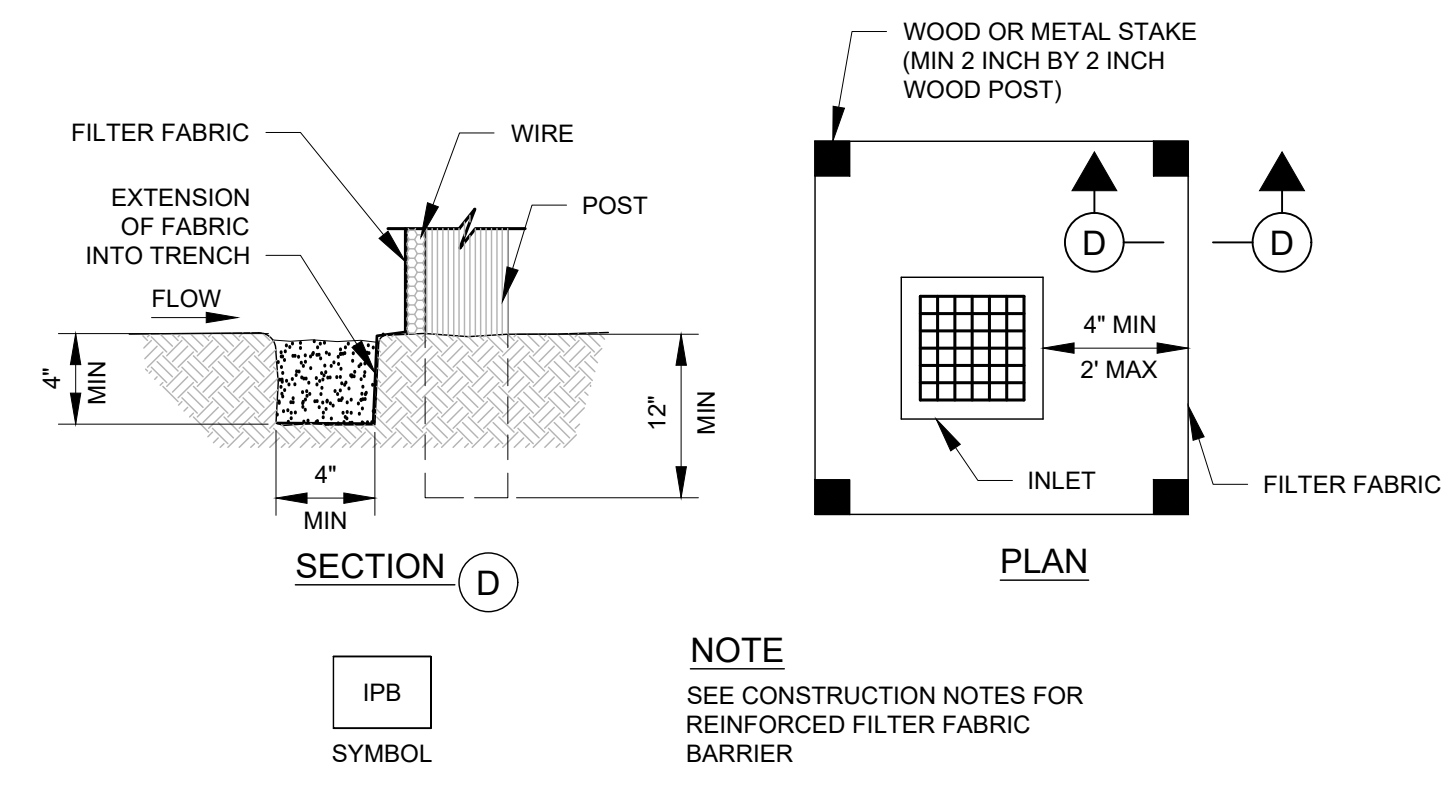
FILTER FABRIC FENCE
NTS



"V-DITCH" SECTION
NTS

TRAPEZOIDAL SECTION
NTS

STABILIZED CONSTRUCTION EXIT
NTS



SILT FENCE DROP INLET PROTECTION BARRIER
NTS

- CONTRACTOR NOTES**
- CONTRACTOR IS RESPONSIBLE FOR DEVELOPING, IMPLEMENTING AND ADHERING TO THE CONTRACTOR DEVELOPED STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
 - CONTRACTOR SHALL PREPARE ALL NOTICE OF INTENT FORMS FOR THE WORK AND OBTAIN THE NECESSARY CERTIFICATES AND SIGNATURES FROM THE OWNER, APPLICABLE SUBCONTRACTORS AND OTHERS AS REQUIRED.

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DATE	REVISION

CONSTRUCTION PLANS FOR
NECHES FEDERAL CREDIT UNION - SILSBEE ITM
(PRIVATE ON-SITE)
PAVING, & DRAINAGE FACILITIES

135 HWY 327 E.,
SILSBEE, TEXAS 77656

STORM WATER POLLUTION PREVENTION MAP DETAILS

PRO-E PROJECT NO.: 1018-0017	
SUBMITTED:	DESIGNED BY: KL
SCALE: N/A	DRAWN BY: SG
DATE: MARCH, 2026	SHEET NO. C9 OF C9
SURVEYED BY: SOUTEX SURVEYORS & ENGINEERS	CITY DWG NO.:

PRIVATE PLANS - NECHES FEDERAL CREDIT UNION - SILSBEE ITM - 135 HWY 327 E., SILSBEE, TEXAS 77656 - 1018-0017

ELECTRICAL SPECIFICATIONS

ELECTRICAL CONDUCTORS

- A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
1. ALCAN CONDUCTORS CORPORATION; ALCAN CABLE DIVISION.
2. AMERICAN INSULATED WIRE CORP.; A LEVITON COMPANY.
3. GENERAL CABLE CORP.
4. SENATOR WIRE & CABLE COMPANY.
5. SOUTHWIRE COMPANY.
COPPER CONDUCTORS: COMPLY WITH NEMA WC 70.
CONDUCTOR INSULATION: COMPLY WITH NEMA WC 70 FOR TYPES THW, THHN-THWN, XHHW, UF, USE, AND SO.
MULTI-CONDUCTOR CABLE: COMPLY WITH NEMA WC 70 FOR ARMORED CABLE, TYPE AC, METAL-CLAD CABLE, TYPE MC, TYPE SO, AND TYPE USE WITH GROUND WIRE.
B. CONDUCTOR MATERIAL APPLICATIONS:
COPPER: SOLD FOR NO. 10 AWG AND SMALLER; STRANDED FOR NO. 8 AWG AND LARGER.
C. CONDUCTOR INSULATION AND MULTI-CONDUCTOR CABLE APPLICATIONS AND WIRING METHODS:
1. SERVICE ENTRANCES: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY, TYPE SE OR USE MULTI-CONDUCTOR CABLE.
2. EXPOSED FEEDERS: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY.
3. FEEDERS CONCEALED IN CEILINGS, WALLS, PARTITIONS, AND CRAWLSPACES: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY.
4. FEEDERS CONCEALED IN CONCRETE, BELOW SLABS-ON-GRADE, AND UNDERGROUND: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY.
5. FEEDERS INSTALLED BELOW RAISED FLOORING: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY.
6. EXPOSED BRANCH CIRCUITS, INCLUDING IN CRAWLSPACES: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY; METAL-CLAD CABLE, TYPE MC.
7. BRANCH CIRCUITS CONCEALED IN CEILINGS, WALLS, AND PARTITIONS: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY, ARMORED CABLE, TYPE AC, METAL-CLAD CABLE, TYPE MC.
8. BRANCH CIRCUITS CONCEALED IN CONCRETE, BELOW SLABS-ON-GRADE, AND UNDERGROUND: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY.
9. BRANCH CIRCUITS CONCEALED IN CEILINGS, WALLS, PARTITIONS, AND CRAWLSPACES: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY, ARMORED CABLE, TYPE AC, METAL-CLAD CABLE, TYPE MC.
10. BRANCH CIRCUITS INSTALLED IN PATIENT CARE AREAS: TYPE HFS-MACP OR AC-HF WITH ASSEMBLY CERTIFICATION FOR AN EQUIPMENT GROUNDING CONDUCTOR AND A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR CONNECTED TO ALL RECEPTABLES, METALLIC BOXES CONTAINING RECEPTABLES, AND ALL METALLIC EQUIPMENT CASINGS.

GROUNDING

- A. INSULATED CONDUCTORS: COPPER WIRE OR CABLE INSULATED FOR 600 V UNLESS OTHERWISE REQUIRED BY APPLICABLE CODE OR AUTHORITIES HAVING JURISDICTION.
B. BARE COPPER CONDUCTORS:
1. SOLID CONDUCTORS: ASTM B 3.
2. STRANDED CONDUCTORS: ASTM B 8.
3. BONDING CABLE: 28 KCMIL, 14 STRANDS OF NO. 17 AWG CONDUCTOR, 1/4 INCH (6 MM) IN DIAMETER.
4. BONDING CONDUCTOR: NO. 4 OR NO. 6 AWG, STRANDED CONDUCTOR.
5. BONDING JUMPER: COPPER TAPE, BRAIDED CONDUCTORS TERMINATED WITH COPPER FERRULES; 1-5/8 INCHES (41 MM) WIDE AND 1/16 INCH (1.6 MM) THICK.
C. GROUNDING BUS: PREDRILLED RECTANGULAR BARS OF ANNEALED COPPER, 1/4 BY 4 INCHES (6.3 BY 100 MM) IN CROSS SECTION, WITH 9/32-INCH (7.14-MM) HOLES SPACED 1-1/8 INCHES (28 MM) APART. STAND-OFF INSULATORS FOR MOUNTING SHALL COMPLY WITH UL 891 FOR USE IN SWITCHBOARDS, 600 V. LEVAIN, UNLESS TESTED AT 5000 V.
D. CONNECTORS LISTED AND LABELED BY AN NRTL ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION FOR APPLICATIONS IN WHICH USED AND FOR SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS CONNECTED.
E. BOLTED CONNECTORS FOR CONDUCTORS AND PIPES: COPPER OR COPPER ALLOY, PRESSURE TYPE WITH AT LEAST TWO BOLTS. PIPE CONNECTORS: CLAMP TYPE, SIZED FOR PIPE.
F. WELDED CONNECTORS: EXOTHERMIC-WELDING KITS OF TYPES RECOMMENDED BY KIT MANUFACTURER FOR MATERIALS BEING JOINED AND INSTALLATION CONDITIONS.
G. BUS-BAR CONNECTORS: MECHANICAL TYPE, CAST SILICON BRONZE, SOLDERLESS COMPRESSION-TYPE WIRE TERMINALS, AND LONG-BARREL, TWO-BOLT CONNECTION TO GROUND BUS BAR.
H. CONDUCTORS: INSTALL SOLID CONDUCTORS FOR NO. 8 AWG AND SMALLER, AND STRANDED CONDUCTORS FOR NO. 6 AWG AND LARGER UNLESS OTHERWISE INDICATED.
I. ISOLATED GROUNDING CONDUCTORS: GREEN-COLORED INSULATION WITH CONTINUOUS YELLOW STRIPE. ON FEEDERS WITH ISOLATED GROUND, IDENTIFY GROUNDING CONDUCTOR WHERE VISIBLE TO NORMAL INSPECTION, WITH ALTERNATING BANDS OF GREEN AND YELLOW TAPE, WITH AT LEAST THREE BANDS OF GREEN AND TWO BANDS OF YELLOW.
J. CONDUCTOR TERMINATIONS AND CONNECTIONS: PIPE AND EQUIPMENT GROUNDING TERMINATIONS: BOLTED CONNECTORS, UNDERGROUND CONNECTIONS. WELDED CONNECTORS EXCEPT AT TEST WELLS AND AS OTHERWISE INDICATED. CONNECTIONS TO GROUND RODS AT TEST WELLS: BOLTED CONNECTORS. CONNECTIONS TO STRUCTURAL STEEL: WELDED CONNECTORS.
K. EQUIPMENT GROUNDING: INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS TO COMPLY WITH THE NEC AND AS INDICATED ON THE DRAWINGS.

ELECTRICAL HANGERS AND SUPPORTS

- A. COMPLY WITH NECA 1 AND NECA 101 FOR APPLICATION OF HANGERS AND SUPPORTS FOR ELECTRICAL EQUIPMENT AND SYSTEMS EXCEPT IF REQUIREMENTS IN THIS SECTION ARE STRICTER. MAXIMUM SUPPORT SPACING AND MINIMUM HANGER ROD SIZE, FOR RACEWAYS: SPACE SUPPORTS FOR EMT, IMC, AND RMC AS SCHEDULED IN NECA 1, WHERE ITS TABLE 1 LISTS MAXIMUM SPACINGS LESS THAN LISTED IN NFPA 70. MINIMUM ROD SIZE SHALL BE 1/4 INCH (6 MM) IN DIAMETER. MULTIPLE RACEWAYS OR CABLES: INSTALL TRAPEZE-TYPE SUPPORTS FABRICATED WITH STEEL SLOTTED OR OTHER SUPPORT SYSTEM, SIZED SO CAPACITY CAN BE INCREASED BY AT LEAST 25 PERCENT IN FUTURE WITHOUT EXCEEDING SPECIFIED DESIGN LOAD LIMITS. SECURE RACEWAYS AND CABLES TO THESE SUPPORTS WITH TWO-BOLT CONDUIT CLAMPS, SPRING-STEEL CLAMPS DESIGNED FOR SUPPORTING SINGLE CONDUITS WITHOUT BOLTS MAY BE USED FOR 1-1/2-INCH (38-MM) AND SMALLER RACEWAYS SERVING BRANCH CIRCUITS AND COMMUNICATION SYSTEMS ABOVE SUSPENDED CEILING AND FOR FASTENING RACEWAYS TO TRAPEZE SUPPORTS.
B. SUPPORT INSTALLATION: COMPLY WITH NECA 1 AND NECA 101 FOR INSTALLATION REQUIREMENTS EXCEPT AS SPECIFIED IN THIS ARTICLE.
C. RACEWAY SUPPORT METHODS: IN ADDITION TO METHODS DESCRIBED IN NECA 1, EMT, IMC, AND RMC MAY BE SUPPORTED BY OPENINGS THROUGH STRUCTURE MEMBERS, AS PERMITTED IN NFPA 70.
D. STRENGTH OF SUPPORT ASSEMBLIES: WHERE NOT INDICATED, SELECT SIZES OF COMPONENTS SO STRENGTH WILL BE ADEQUATE TO CARRY PRESENT AND FUTURE STATIC LOADS WITHIN SPECIFIED LOADING LIMITS. MINIMUM STATIC DESIGN LOAD USED FOR STRENGTH DETERMINATION SHALL BE HEIGHT OF SUPPORTED COMPONENTS PLUS 200 LB (90 KG).
E. MOUNTING AND ANCHORAGE OF SURFACE-MOUNTED EQUIPMENT AND COMPONENTS: ANCHOR AND FASTEN ELECTRICAL ITEMS AND THEIR SUPPORTS TO BUILDING STRUCTURAL ELEMENTS BY THE FOLLOWING METHODS UNLESS OTHERWISE INDICATED BY CODE:
1. TO WOOD: FASTEN WITH LAG SCREWS OR THROUGH BOLTS.
2. TO NEW CONCRETE: BOLT TO CONCRETE INSERTS.
3. TO MASONRY: APPROVED TOGGLE-TYPE BOLTS ON HOLLOW MASONRY UNITS AND EXPANSION ANCHOR FASTENERS ON SOLID MASONRY UNITS.
4. TO EXISTING CONCRETE: EXPANSION ANCHOR FASTENERS.
5. INSTEAD OF EXPANSION ANCHORS, POWDER-ACTUATED DRIVEN THREADED STUDS PROVIDED WITH LOCK WASHERS AND NUTS MAY BE USED IN EXISTING STANDARD-WEIGHT CONCRETE 4 INCHES (100 MM) THICK OR GREATER. DO NOT USE FOR ANCHORAGE TO LIGHTWEIGHT-AGGREGATE CONCRETE OR FOR SLABS LESS THAN 4 INCHES (100 MM) THICK.
6. TO STEEL: WELDED THREADED STUDS COMPLYING WITH AWS D1.1/D11M, WITH LOCK WASHERS AND NUTS OR BEAM CLAMPS (MSS TYPE 19, 21, 23, 25, OR 27) COMPLYING WITH MSS SP-69.
7. TO LIGHT STEEL: SHEET METAL SCREWS.
8. DRILL HOLES FOR EXPANSION ANCHORS IN CONCRETE AT LOCATIONS AND TO DEPTHS THAT AVOID REINFORCING BARS.

ELECTRICAL CONDUIT

- A. METAL CONDUIT AND TUBING MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
1. AFC CABLE SYSTEMS, INC.
2. ALLIED TUBE & CONDUIT; A TYCOO INTERNATIONAL LTD. CO.
3. ANAMET ELECTRICAL, INC.; ANAONADA METAL HOSE.
4. ELECTRI-FLEX CONDUIT COMPANY; NEMA FB 1.
5. MAYCRICK TUBE CORPORATION.
6. O-Z GENEX; A UNIT OF GENERAL SIGNAL.
7. WHEATLAND TUBE COMPANY.
B. RIGID STEEL CONDUIT: ANSI C80.1.
C. ALUMINUM RIGID CONDUIT: ANSI C80.5.
D. IMC: ANSI C80.6.
E. PVC-COATED STEEL CONDUIT: PVC-COATED RIGID STEEL CONDUIT.
F. COMPLY WITH NEMA RN 1.
G. COATING THICKNESS: 0.040 INCH (1 MM), MINIMUM.
H. EMT: ANSI C80.3.
I. FMC: ZINC-COATED STEEL.
J. LFMC: FLEXIBLE STEEL CONDUIT WITH PVC JACKET.
K. FITTINGS FOR CONDUIT (INCLUDING ALL TYPES AND FLEXIBLE AND LIQUIDTIGHT), EMT, AND CABLE: NEMA FB 1; LISTED FOR EACH TYPE AND SIZE RACEWAY WITH WHICH USED, AND FOR APPLICATION AND ENVIRONMENT IN WHICH INSTALLED.
1. FITTINGS FOR EMT: STEEL SET-SCREW OR COMPRESSION TYPE, DIE-CAST IS NOT ACCEPTABLE.
2. COATING FOR FITTINGS FOR PVC-COATED CONDUIT: MINIMUM THICKNESS, 0.040 INCH (1 MM), WITH OVERLAPPING SLEEVES PROTECTING THREADED JOINTS.
L. JOINT COMPOUND FOR RIGID STEEL CONDUIT OR IMC: LISTED FOR USE IN CABLE CONNECTOR ASSEMBLIES, AND COMPOUNDED FOR USE TO LUBRICATE AND PROTECT THREADED RACEWAY JOINTS FROM CORROSION AND ENHANCE THEIR CONDUCTIVITY.
M. SURFACE METAL RACEWAYS: GALVANIZED STEEL WITH SNAP-ON COVERS. MANUFACTURER'S STANDARD ENAMEL FINISH IN COLOR SELECTED BY ARCHITECT.
N. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
1. THOMAS & BETTS CORPORATION.
2. WALKER SYSTEMS, INC.; WREMOLD COMPANY (THE).
3. WREMOLD COMPANY (THE); ELECTRICAL SALES DIVISION.
O. BOXES, ENCLOSURES, AND CABINETS: MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
1. COOPER CROUSE-HINDS; DIV. OF COOPER INDUSTRIES, INC.
2. EGS/APPLETON ELECTRIC.
3. HOFFMAN.
4. HUBBELL INCORPORATED; KILLARK ELECTRIC MANUFACTURING CO. DIVISION.
5. O-Z/GENEX; A UNIT OF GENERAL SIGNAL.
6. RACKS; A HUBBELL COMPANY.
7. ROBROY INDUSTRIES, INC.; ENCLOSURE DIVISION.
8. THOMAS & BETTS CORPORATION.
9. WALKER SYSTEMS, INC.; WREMOLD COMPANY (THE).
P. SHEET METAL OUTLET AND DEVICE BOXES: NEMA OS 1.
Q. CAST-METAL OUTLET AND DEVICE BOXES: NEMA OS 1, FERROUS ALLOY, TYPE FD, WITH GASKETED COVER.
R. METAL FLOOR PLATES: CAST METAL, FULLY ADJUSTABLE, RECTANGULAR.
S. SMALL SHEET METAL PULL AND JUNCTION BOXES: NEMA OS 1.
T. CAST-METAL ACCESS, PULL, AND JUNCTION BOXES: NEMA FB 1, GALVANIZED, CAST IRON WITH GASKETED COVER.
U. HINGED-COVER ENCLOSURES: NEMA 250, TYPE 1, WITH CONTINUOUS-HINGE COVER WITH FLUSH LATCH, UNLESS OTHERWISE INDICATED.
1. METAL ENCLOSURES: STEEL, FINISHED INSIDE AND OUT WITH MANUFACTURER'S STANDARD ENAMEL.
A. IN STANDARD PARTITIONS, WHERE 1/2" AND 3/4" CONDUITS ARE EMPLOYED: 4" SQUARE BY 2-1/8" DEEP BOXES WITH 1-GANG OR 2-GANG PLASTER COVERS SHALL BE USED, NO. 450-SPL.
B. IN THIN PARTITIONS MEASURING 3-1/2" OR LESS: 4" SQUARE BY 1-1/2" DEEP BOXES WITH 1-GANG OR 2-GANG PLASTER COVERS SHALL BE USED, NO. 45-SPL.
C. IN STANDARD PARTITIONS, WHERE CONDUITS OF A SIZE GREATER THAN 3/4" ARE EMPLOYED: 4" SQUARE BY 2-1/8" DEEP BOXES WITH 1-GANG OR 2-GANG PLASTER COVERS SHALL BE USED, NO. 450-B SERIES. THE OUTLET BOXES SHALL BE LOCATED WHEREBY NO TWO (2) OUTLET BOXES ARE INSTALLED CLOSER THAN 24" ON CENTER, AND SECURELY ATTACHED TO THE PARTITION STUDS, WITH AT LEAST ONE (1) PARTITION STUD SEPARATING THE OUTLET BOXES. IT IS NOT ACCEPTABLE TO SECURE OUTLET BOXES ONLY TO DRYWALL PARTITION.
V. CABINETS:
1. NEMA 250, TYPE 1, GALVANIZED-STEEL BOX WITH REMOVABLE INTERIOR PANEL AND REMOVABLE FRONT, FINISHED INSIDE AND OUT WITH MANUFACTURER'S STANDARD ENAMEL.
2. HINGED DOOR IN FRONT COVER WITH FLUSH LATCH AND CONCEALED HINGE.
3. KEY LATCH TO LOCK PANELBOARDS.
4. METAL BARRIERS TO SEPARATE WIRING OF DIFFERENT SYSTEMS AND VOLTAGE.
5. ACCESSORY FEET WHERE REQUIRED FOR FREESTANDING EQUIPMENT.
W. OUTDOORS: APPLY RACEWAY PRODUCTS AS SPECIFIED BELOW, UNLESS OTHERWISE INDICATED:
1. EXPOSED CONDUIT: RIGID STEEL CONDUIT.
2. CONCEALED CONDUIT, ABOVEGROUND: RIGID STEEL CONDUIT, EMT, RMC.
3. UNDERGROUND CONDUIT: RMC, TYPE EPC-40-PVC, DIRECT BURIED.
4. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): LFMC.
5. BOXES AND ENCLOSURES, ABOVEGROUND: NEMA 250, TYPE 3R.
X. OUTDOORS: APPLY RACEWAY PRODUCTS AS SPECIFIED BELOW, UNLESS OTHERWISE INDICATED:
1. EXPOSED, NOT SUBJECT TO PHYSICAL DAMAGE: EMT.
2. EXPOSED, SUBJECT TO SEVERE PHYSICAL DAMAGE: EMT.
3. EXPOSED AND SUBJECT TO SEVERE PHYSICAL DAMAGE: RIGID STEEL CONDUIT, INCLUDES RACEWAYS IN THE FOLLOWING LOCATIONS: LOADING DOCK, CORRIDORS USED FOR TRAFFIC OF MECHANIZED CARTS, FORKLIFFS, AND PALLET-HANDLING UNITS, MECHANICAL ROOMS.
4. CONCEALED IN CEILINGS AND INTERIOR WALLS AND PARTITIONS: EMT.
5. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): LFMC, EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.
6. DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT.
7. RACEWAYS FOR OPTICAL FIBER OR COMMUNICATIONS CABLE IN SPACES USED FOR ENVIRONMENTAL AIR: PLENUM-TYPE, OPTICAL FIBER/COMMUNICATIONS CABLE RACEWAY, EMT.
8. RACEWAYS FOR OPTICAL FIBER OR COMMUNICATIONS CABLE RISERS IN VERTICAL SHAFTS: RISER-TYPE, OPTICAL FIBER/COMMUNICATIONS CABLE RACEWAY, EMT.
9. RACEWAYS FOR CONCEALED GENERAL PURPOSE DISTRIBUTION OF OPTICAL FIBER OR COMMUNICATIONS CABLE: GENERAL-USE, OPTICAL FIBER/COMMUNICATIONS CABLE RACEWAY, RISER-TYPE, OPTICAL FIBER/COMMUNICATIONS CABLE RACEWAY, PLENUM-TYPE, OPTICAL FIBER/COMMUNICATIONS CABLE RACEWAY, EMT.
10. BOXES AND ENCLOSURES: NEMA 250, TYPE 1, EXCEPT USE NEMA 250, TYPE 4X, STAINLESS STEEL, IN DAMP OR WET LOCATIONS.
X. MINIMUM RACEWAY SIZE: 1/2-INCH (16-MM) TRADE SIZE.
Y. RACEWAY FITTINGS: COMPATIBLE WITH RACEWAYS AND SUITABLE FOR USE AND LOCATION.
1. RIGID AND INTERMEDIATE STEEL CONDUIT: USE THREADED RIGID STEEL CONDUIT FITTINGS, UNLESS OTHERWISE INDICATED.
2. PVC EXTERNALLY COATED, RIGID STEEL CONDUITS: USE ONLY FITTINGS LISTED FOR USE WITH THAT MATERIAL. PATCH AND SEAL ALL JOINTS, NODS, AND SCREWS IN PVC COATING AFTER INSTALLING CONDUITS AND FITTINGS. USE SEALANT RECOMMENDED BY FITTING MANUFACTURER.
Z. INSTALLATION: COMPLY WITH NECA 1 FOR INSTALLATION REQUIREMENTS APPLICABLE TO PRODUCTS SPECIFIED EXCEPT WHERE REQUIREMENTS ON DRAWINGS OR IN THIS ARTICLE ARE STRICTER.
AA. KEEP RACEWAYS AT LEAST 6 INCHES (150 MM) AWAY FROM PARALLEL RUNS OF FLUES AND STEAM OR HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER AND STEAM PIPING.
AB. COMPLETE RACEWAY INSTALLATION BEFORE STARTING CONDUCTOR INSTALLATION.
AC. SUPPORT RACEWAYS AS SPECIFIED IN "HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS."
AD. ARRANGE SUB-UPS SO CURVED PORTIONS OF BENDS ARE NOT VISIBLE ABOVE THE FINISHED SLAB.
AE. INSTALL NO MORE THAN THE EQUIVALENT OF THREE 90-DEGREE BENDS IN ANY CONDUIT RUN EXCEPT FOR COMMUNICATIONS CONDUITS, FOR WHICH FEWER BENDS ARE ALLOWED.
AF. CONCEAL CONDUIT AND EMT WITH FINISHED WALLS, CEILING, AND FLOORS, UNLESS OTHERWISE INDICATED.
AG. RACEWAYS EMBEDDED IN SLABS:
1. RUN CONDUIT LARGER THAN 1-INCH (27-MM) TRADE SIZE, PARALLEL OR AT RIGHT ANGLES TO MAIN REINFORCEMENT. WHERE AT RIGHT ANGLES TO REINFORCEMENT, PLACE CONDUIT CLOSE TO SLAB SUPPORT.
2. ARRANGE RACEWAYS TO CROSS BUILDING EXPANSION JOINTS AT RIGHT ANGLES WITH EXPANSION FITTINGS.
3. CHANGE FROM EMT TO RMC, TYPE EPC-40-PVC, RIGID STEEL CONDUIT, OR IMC BEFORE RISING ABOVE THE FLOOR.
AH. THREADED CONDUIT JOINTS, EXPOSED TO WET, DAMP, CORROSIVE, OR OUTDOOR CONDITIONS: APPLY LISTED COMPOUND TO THREADS OF RACEWAY AND FITTINGS BEFORE MAKING UP JOINTS. FOLLOW COMPOUND MANUFACTURER'S WRITTEN INSTRUCTIONS.
AI. RACEWAY TERMINATIONS AT LOCATIONS SUBJECT TO MOISTURE OR VIBRATION: USE INSULATING BUSHINGS TO PROTECT CONDUCTORS, INCLUDING CONDUCTORS SMALLER THAN NO. 4 AWG.
AJ. INSTALL PULL WIRES IN EMPTY RACEWAYS. USE POLYPROPYLENE OR MONOFILAMENT PLASTIC LINE WITH NOT LESS THAN 200-LB (90-KG) TENSILE STRENGTH. LEAVE AT LEAST 12 INCHES (300 MM) OF SLACK AT EACH END OF PULL WIRE.
AK. RACEWAYS FOR OPTICAL FIBER AND COMMUNICATIONS CABLE: INSTALL RACEWAYS, METALLIC AND NONMETALLIC, RIGID AND FLEXIBLE, AS FOLLOWS:
1. 3/4-INCH (19-MM) TRADE SIZE AND SMALLER: INSTALL RACEWAYS IN MAXIMUM LENGTHS OF 50 FEET (15 M).
2. 1-INCH (25-MM) TRADE SIZE AND LARGER: INSTALL RACEWAYS IN MAXIMUM LENGTHS OF 75 FEET (23 M).
3. INSTALL WITH A MAXIMUM OF TWO 90-DEGREE BENDS OR EQUIVALENT FOR EACH LENGTH OF RACEWAY UNLESS DRAWINGS SHOW STRICTER REQUIREMENTS. SEPARATE LENGTHS WITH PULL OR JUNCTION BOXES OR TERMINATIONS AT DISTRIBUTION FRAMES OR CABINETS WHERE NECESSARY TO COMPLY WITH THESE REQUIREMENTS.
AL. INSTALL RACEWAY SEALING FITTINGS AT SUITABLE, APPROVED, AND ACCESSIBLE LOCATIONS AND FILL THEM WITH LISTED SEALING COMPOUND. FOR CONCEALED RACEWAYS, INSTALL EACH FITTING IN A FLUSH STEEL BOX WITH A BLANK COVER PLATE HAVING A FINISH SIMILAR TO THAT OF ADJACENT PLATES OR SURFACES. INSTALL RACEWAY SEALING FITTINGS AT THE FOLLOWING POINTS:
1. WHERE CONDUITS PASS FROM WARM TO COLD LOCATIONS, SUCH AS BOUNDARIES OF REFRIGERATED SPACES.
2. WHERE OTHERWISE REQUIRED BY NFPA 70.

- AP. FLEXIBLE CONDUIT CONNECTIONS: USE MAXIMUM OF 48 INCHES (1219 MM) OF FLEXIBLE CONDUIT FOR RECESSED AND SEMIRECESSED LIGHTING FIXTURES, EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT; AND FOR TRANSFORMERS AND MOTORS. USE LFMC IN DAMP OR WET LOCATIONS.
AQ. RECESSED BOXES IN MASONRY WALLS: SAW-OUT OPENING FOR BOX IN CENTER OF CELL OF MASONRY BLOCK, AND INSTALL BOX FLUSH WITH SURFACE OF WALL.
AR. SET METAL FLOOR BOXES LEVEL AND FLUSH WITH FINISHED FLOOR SURFACE.
AS. FIRESTOPPING: APPLY FIRESTOPPING TO ELECTRICAL PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES TO RESTORE ORIGINAL FIRE-RESISTANCE RATING OF ASSEMBLY. PROVIDE SLEEVES FOR FLOOR PENETRATIONS EXTENDING 2" ABOVE FLOOR EXCEPT IN FINISHED AREAS WHERE COORDINATED WITH ARCHITECT.

PANELBOARDS

- A. ENCLOSURES: FLUSH- AND SURFACE-MOUNTED CABINETS. RATED FOR ENVIRONMENTAL CONDITIONS AT INSTALLED LOCATION, INDOOR DRY AND CLEAN LOCATIONS: NEMA 250, TYPE 1. OUTDOOR LOCATIONS: NEMA 250, TYPE 3R. WET OR DAMP INDOOR LOCATIONS: NEMA 250, TYPE 4X STAINLESS STEEL.
B. FRONT: SECURED TO BOX WITH CONCEALED TRIM BOLTS. FOR SURFACE-MOUNTED FRONTS, MATCH BOX DIMENSIONS; FOR FLUSH-MOUNTED FRONTS, OVERLAP BOX.
C. HINGED FRONT COVER: ENTIRE FRONT TRIM HINGED TO BOX AND WITH STANDARD DOOR WITHIN HINGED TRIM COVER.
D. FINISHES: PANELS AND TRIM: GALVANIZED STEEL, FACTORY FINISHED IMMEDIATELY AFTER CLEANING AND PRETREATING WITH MANUFACTURER'S STANDARD TWO-COAT, BAKED-ON FINISH CONSISTING OF PRIME COAT AND THERMOSETTING TOPOCOAT.
E. BACK BOXES: GALVANIZED STEEL.
F. FUNGUS PROOFING: PERMANENT FUNGICIDAL TREATMENT FOR OVERCURRENT PROTECTIVE DEVICES AND OTHER COMPONENTS.
G. DIRECTORY CARD: INSIDE PANELBOARD DOOR, MOUNTED IN TRANSPARENT CARD HOLDER.
H. INCOMING MAINS LOCATION: TOP AND BOTTOM.
I. PHASE, NEUTRAL AND GROUND BUSES: MATERIAL: TIN-PLATED ALUMINUM OR HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY. EQUIPMENT GROUND BUS: ADEQUATE FOR FEEDER AND BRANCH-CIRCUIT EQUIPMENT GROUNDING CONDUCTORS; BONDED TO BOX.
J. CONDUCTOR CONNECTORS: SUITABLE FOR USE WITH CONDUCTOR MATERIAL AND SIZES. MATERIAL: TIN-PLATED ALUMINUM OR HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY. MAIN AND NEUTRAL LUGS: COMPRESSION TYPE. GROUND LUGS AND BUS-CONFIGURED TERMINATORS: COMPRESSION TYPE, FEED-THROUGH LUGS. COMPRESSION TYPE, SUITABLE FOR USE WITH CONDUCTOR MATERIAL. LOCATE AT OPPOSITE END OF BUS FROM INCOMING LUGS OR MAIN DEVICE. RATED FOR CONNECTION OF 75 DEG C INSULATED CONDUCTORS.
K. PANELBOARD SHORT-CIRCUIT CURRENT RATING: FULLY RATED TO INTERRUPT SYMMETRICAL SHORT-CIRCUIT CURRENT AVAILABLE AT TERMINALS.
L. LIGHTING AND APPLIANCE BRANCH-CIRCUIT PANELBOARDS: MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
GENERAL ELECTRIC INC.; CUTLER-HAMMER BUSINESS UNIT. GENERAL ELECTRIC COMPANY; GE CONSUMER & INDUSTRIAL SIEMENS ENERGY & AUTOMATION, INC.
PANELBOARDS: NEMA PB 1, LIGHTING AND APPLIANCE BRANCH-CIRCUIT TYPE. MAINS: CIRCUIT BREAKER OR LUGS ONLY. WITHOUT DISTURBING NEARBY DEVICES: BOLT-ON CIRCUIT BREAKERS, REPLACEABLE WITHOUT DISTURBING NEARBY DEVICES. DOORS: CONCEALED HINGES; SECURED WITH FLUSH LATCH WITH TUMBLER LOCK; KEYS ALIKE.

LIGHTING FIXTURES

- A. GENERAL REQUIREMENTS FOR LIGHTING FIXTURES AND COMPONENTS.
1. RECESSED FIXTURES: COMPLY WITH UL 1598. WHERE LER IS SPECIFIED, TEST ACCORDING TO NEMA LE 5A.
2. INCANDESCENT FIXTURES: COMPLY WITH UL 1598. WHERE LER IS SPECIFIED, TEST ACCORDING TO NEMA LE 5 AND NEMA LE 5A AS APPLICABLE.
3. FLUORESCENT FIXTURES: COMPLY WITH UL 1598. WHERE LER IS SPECIFIED, TEST ACCORDING TO NEMA LE 5 AND NEMA LE 5A AS APPLICABLE.
4. LED FIXTURES:
4.1. LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
4.2. EACH LUMINAIRE TYPE SHALL BE BINNED WITH A THREE-STEP MACADAM ELIPSE TO ENSURE COLOR CONSISTENCY AMONG LUMINAIRES.
METAL PARTS: FREE OF BURRS AND SHARP CORNERS AND EDGES. SHEET METAL COMPONENTS: STEEL UNLESS OTHERWISE INDICATED. FORM AND SUPPORT TO PREVENT WARPING AND SAGGING. DOORS, FRAMES, AND OTHER INTERNAL ACCESS: SMOOTH OPERATING, FREE OF LIGHT LEAKAGE UNDER OPERATING CONDITIONS, AND DESIGNED TO PERMIT RELAMPING WITHOUT USE OF TOOLS. DESIGNED TO PREVENT DOORS, FRAMES, LENSES, DIFFUSERS, AND OTHER COMPONENTS FROM FALLING ACCIDENTALLY DURING RELAMPING AND WHEN SECURED IN OPERATING POSITION.
B. DIFFUSERS AND CLOSES:
1. ACRYLIC LIGHTING DIFFUSERS: 100 PERCENT VIRION ACRYLIC PLASTIC. HIGH RESISTANCE TO YELLOWING AND OTHER CHANGES DUE TO AGING, EXPOSURE TO HEAT, AND UV RADIATION.
2. LENS THICKNESS: AT LEAST 0.125 INCH (3.175 MM) MINIMUM UNLESS OTHERWISE INDICATED.
3. UV STABILIZED.
4. GLASS: ANNEALED CRYSTAL GLASS UNLESS OTHERWISE INDICATED.
C. FACTORY-APPLIED LABELS: COMPLY WITH UL 1598. INCLUDE RECOMMENDED LAMPS AND BALLASTS. LABELS SHALL BE LOCATED WHERE THEY WILL BE READILY VISIBLE TO SERVICE PERSONNEL, BUT NOT SEEN FROM NORMAL VIEWING ANGLES WHEN LAMPS ARE IN PLACE. LABEL SHALL INCLUDE THE FOLLOWING LAMP AND BALLAST CHARACTERISTICS:
1. USE ONLY AND INCLUDE SPECIFIC LAMP TYPE.
2. LAMP DIAMETER CODE (T-4, T-5, T-8, T-12, ETC.), TUBE CONFIGURATION (TWIN, QUAD, TRIPLE, ETC.), BASE TYPE, AND NOMINAL WATTAGE FOR FLUORESCENT AND COMPACT FLUORESCENT LUMINAIRES.
3. LAMP TYPE, WATTAGE, BULB TYPE (ED17, B056, ETC.) AND COATING (CLEAR OR COATED) FOR HID LUMINAIRES.
4. START TYPE (PREHEAT, RAPID START, INSTANT START, ETC.) FOR FLUORESCENT AND COMPACT FLUORESCENT LUMINAIRES.
5. ANSI BALLAST TYPE (M98, M57, ETC.) FOR HID LUMINAIRES.
6. OCT AND OR FOR ALL LUMINAIRES.
D. ELECTROMAGNETIC INTERFERENCE FILTERS: FACTORY INSTALLED TO SUPPRESS CONDUCTED ELECTROMAGNETIC INTERFERENCE AS REQUIRED BY MIL-STD-461E. FABRICATE LIGHTING FIXTURES WITH ONE FILTER ON EACH BALLAST INSTALLED TO REQUIRE A FILTER.

BALLASTS

- A. BALLASTS FOR LINEAR FLUORESCENT LAMPS, GENERAL REQUIREMENTS FOR ELECTRONIC BALLASTS:
1. COMPLY WITH UL 935 AND WITH ANSI C82.11.
2. DESIGNED FOR TYPE AND QUANTITY OF LAMPS SERVED.
3. BALLASTS SHALL BE DESIGNED FOR FULL LIGHT OUTPUT UNLESS ANOTHER BF, DIMMER, OR BI-LEVEL CONTROL IS INDICATED.
4. SOUND RATING: CLASS A.
5. TOTAL HARMONIC DISTORTION RATING: LESS THAN 10 PERCENT.
6. TRANSIENT VOLTAGE PROTECTION: IEEE C82.41.1 AND IEEE C82.41.2, CATEGORY A OR BETTER.
7. OPERATING FREQUENCY: 42 KHZ OR HIGHER.
8. LAMP CURRENT CREST FACTOR: 1.7 OR LESS.
9. BF: 0.88 OR HIGHER.
10. POWER FACTOR: 0.95 OR HIGHER.
11. PANEL LAMP CIRCUITS: MULTIPLE LAMP BALLASTS SHALL COMPLY WITH ANSI C82.11 AND SHALL BE CONNECTED TO MAINTAIN FULL LIGHT OUTPUT ON SURVIVING LAMPS IF ONE OR MORE LAMPS FAIL.
B. LUMINAIRES CONTROLLED BY OCCUPANCY SENSORS SHALL HAVE PROGRAMMED-START BALLASTS.
C. ELECTRONIC PROGRAMMED-START BALLASTS FOR T8 AND T5 AND T5HO LAMPS: COMPLY WITH ANSI C82.11 AND THE FOLLOWING:
1. LAMP END-OF-LIFE DETECTION AND SHUTDOWN CIRCUIT FOR T5 DIAMETER LAMPS.
2. AUTOMATIC LAMP STARTING AFTER LAMP REPLACEMENT.
3. ELECTROMAGNETIC BALLASTS: COMPLY WITH ANSI C82.1; ENERGY SAVING, HIGH-POWER FACTOR, CLASS P, AND HAVING AUTOMATIC-RESET THERMAL PROTECTION.
D. ELECTRONIC BALLAST MANUFACTURER CERTIFICATION: INDICATED BY LABEL.
E. SINGLE BALLASTS FOR MULTIPLE LIGHTING FIXTURES: FACTORY WREED WITH BALLAST ARRANGEMENTS AND BUNDLED EXTENSION WIRING TO SUIT FINAL INSTALLATION CONDITIONS WITH NO MODIFICATION OR REWIRING IN THE FIELD.
G. BALLASTS FOR COMPACT FLUORESCENT LAMPS:
H. DESCRIPTION: ELECTRONIC-PROGRAMMED RAPID-START TYPE, COMPLYING WITH UL 935 AND WITH ANSI C 82.11, DESIGNED FOR TYPE AND QUANTITY OF LAMPS INDICATED. BALLAST SHALL BE DESIGNED FOR FULL LIGHT OUTPUT UNLESS DIMMER OR BI-LEVEL CONTROL IS INDICATED:
1. LAMP END-OF-LIFE DETECTION AND SHUTDOWN CIRCUIT.
2. AUTOMATIC LAMP STARTING AFTER LAMP REPLACEMENT.
3. SOUND RATING: CLASS A.
4. TOTAL HARMONIC DISTORTION RATING: LESS THAN 20 PERCENT.
5. TRANSIENT VOLTAGE PROTECTION: IEEE C82.41.1 AND IEEE C82.41.2, CATEGORY A OR BETTER.
6. OPERATING FREQUENCY: 20 KHZ OR HIGHER.
7. LAMP CURRENT CREST FACTOR: 1.7 OR LESS.
8. BF: 0.95 OR HIGHER UNLESS OTHERWISE INDICATED.
9. POWER FACTOR: 0.95 OR HIGHER.
10. INTERFERENCE: COMPLY WITH 47 CFR 18, CH. 1, SUBPART C, FOR LIMITATIONS ON ELECTROMAGNETIC AND RADIO-FREQUENCY INTERFERENCE FOR NONCONSUMER EQUIPMENT.

LED LAMPS

- A. MINIMUM LUMENS PER SCHEDULED FIXTURE.
B. MINIMUM ALLOWABLE EFFICACY OF 85 LM/W.
C. CRI OF MINIMUM 80, CCT PER SCHEDULED FIXTURE.
D. RATED LAMP LIFE OF 50,000 HOURS TO L50.
E. DIMMABLE FROM 100 PERCENT TO 1 PERCENT OF MAXIMUM LIGHT OUTPUT.
F. INTERNAL DRIVER.
G. USER-REPLACEABLE LAMPS:
1. BULB SHAPE COMPLYING WITH ANSI C78.79.
2. LAMP BASE COMPLYING WITH ANSI C81.61 OR IEC 60061-1.

WIRING DEVICES

- A. MANUFACTURERS:
1. COOPER WIRING DEVICES.
2. HUBBELL INCORPORATED; WIRING DEVICE-KELLUMS.
3. LEVITON MFG. COMPANY INC.
4. PASS & SEYMOUR/LEGRAND; WIRING DEVICES & ACCESSORIES.
B. ALL WIRING DEVICES TO BE WHITE OR COLOR AS SELECTED BY ARCHITECT.
C. STRAIGHT BLADE RECEPTACLES: CONVENIENCE RECEPTACLES, 125 V, 20 A; COMPLY WITH NEMA WD 1, NEMA WD 6 CONFIGURATION 5-20R, AND UL 498. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
1. LEVITON; 16341-W (SINGLE), 1632-W (DUPLICATE).
2. ANY EQUAL BY ABOVE LISTED MANUFACTURERS.
D. ISOLATED-GROUND, DUPLEX CONVENIENCE RECEPTACLES, 125 V, 20 A; COMPLY WITH NEMA WD 1, NEMA WD 6 CONFIGURATION 5-20R, AND UL 498. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
1. LEVITON; 16341-W (SINGLE), 1632-W (DUPLICATE).
2. ANY EQUAL BY ABOVE LISTED MANUFACTURERS.
DESCRIPTION: STRAIGHT BLADE; EQUIPMENT GROUNDING CONTACTS SHALL BE CONNECTED ONLY TO THE EARTH TERMINAL OF THE DEVICE AND WITH INDEPENDENT ELECTRICAL ISOLATION FROM MOUNTING STRAP. ISOLATION SHALL BE INTEGRAL TO RECEPTACLE CONSTRUCTION AND NOT DEPEND ON REMOVABLE PARTS.
E. GFCO RECEPTACLES: GENERAL DESCRIPTION: STRAIGHT BLADE, FEED-THROUGH TYPE, COMPLY WITH NEMA WD 1, NEMA WD 6, AND UL 943, CLASS A, AND INCLUDE INDICATOR LIGHT THAT IS LIGHTED WHEN DEVICE IS TRIPPED. DUPLEX GFCO CONVENIENCE RECEPTACLES, 125 V, 20 A: PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
1. LEVITON; 7899-W.
2. ANY EQUAL BY ABOVE LISTED MANUFACTURERS.
F. SNAP SWITCHES, COMPLY WITH NEMA WD 1 AND UL 20. SWITCHES, 120/277 V, 20 A: PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
1. LEVITON; 5621-2W (SINGLE POLE), 5622-2 (TWO POLE), 5623-2 (THREE WAY) AND ANY EQUAL BY ABOVE LISTED MANUFACTURERS.
G. WALL-BOX DIMMERS, DIMMER SWITCHES: MODULAR, FULL-WAVE, SOLID-STATE UNITS WITH INTEGRAL ON-OFF SWITCHES, WITH ADJUSTABLE FREQUENCY AND DIMMER SUPPRESSION FILTERS. CONTROL: CONTINUOUSLY ADJUSTABLE SLIDER; WITH SINGLE-POLE OR THREE-WAY SWITCHING. COMPLY WITH UL 1472.
1. INCANDESCENT LAMP DIMMERS: 120 V CONTROL, SHALL FOLLOW SQUARE-LAW DIMMING CURVE. ON-OFF SWITCH POSITIONS SHALL BYPASS DIMMER MODULE. 2000 W DIMMERS SHALL REQUIRE NO DERATING WHEN GANGED WITH OTHER DEVICES.
2. FLUORESCENT LAMP DIMMERS: MODULAR, COMPATIBLE WITH DIMMER BALLASTS; TRIM POTENTIOMETER TO ADJUST LOW-END DIMMING; DIMMER-BALLAST COMBINATION CAPABLE OF CONSISTENT DIMMING WITH LOW END NOT GREATER THAN 20 PERCENT OF FULL BRIGHTNESS.
3. ACCEPTABLE MANUFACTURERS: LUTRON, LEVITON.
H. VACUANCY/OCCUPANCY SENSORS, WALL-SWITCH SENSORS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
1. LUTRON; MS-B102 (PROGRAMMED FOR VACANCY OR OCCUPANCY OPERATION AS SHOWN)
2. ANY EQUAL BY NOVITAS, WATSTOPPER, LEVITON OR SENSOR SWITCH.
DESCRIPTION: DUAL TECHNOLOGY TYPE, 120/277 V, ADJUSTABLE TIME DELAY UP TO 20 MINUTES, 180-DEGREE FIELD OF VIEW, WITH A MINIMUM COVERAGE AREA OF 900 SQ. FT. (81 SQ. M). MANUAL-ON/AUTO-OFF OR AUTO-ON TO 50%/AUTO-OFF.
I. WALL PLATES, SINGLE AND COMBINATION TYPES TO MATCH CORRESPONDING WIRING DEVICES. PLATE-SECURING SCREWS: METAL WITH HEAD COLOR TO MATCH PLATE FINISH.
1. MATERIAL FOR FINISHED SPACES: SMOOTH, HIGH-IMPACT THERMOPLASTIC 0.035-INCH- (1-MM)-THICK.
2. MATERIAL FOR UNFINISHED SPACES: SMOOTH, HIGH-IMPACT THERMOPLASTIC, AND LISTED AND LABELED FOR USE IN "WET LOCATIONS."
4. WET-LOCATION, WEATHERPROOF COVER PLATES: NEMA 250, COMPLYING WITH TYPE 3R WEATHER-RESISTANT, THERMOPLASTIC WITH LOCKABLE COVER.

DEVICE MOUNTING HEIGHTS

IN GENERAL, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS OR THE ELECTRICAL DRAWINGS, MOUNTING HEIGHTS SHALL BE AS FOLLOWS: (HEIGHTS SHOWN ARE ABOVE FINISHED FLOOR TO CENTER LINE OF OUTLET)

Table with 2 columns: Device Name and Height. Includes Wall Switches (18 inches), Electrical/Voice/Data Outlets (90 inches), Clock Outlets (42 inches), Receptacles (42 inches), Fire Alarm Pull Stations (80 inches), Fire Alarm System Audio/Visual Strobes (80 inches), Fire Alarm System Visual Strobes (80 inches), Wall Mounted Telephone (42 inches).

SLI DESIGN, INC. ARCHITECTURE PLANNING INTERIOR DESIGN 15810 PARK TEN PLACE, SUITE 300 HOUSTON, TEXAS 77084 713-465-4650 www.sligroup.com

Neches FCU - Sisbees ITM State HWY 327 Sisbees, TX 77656. Includes logo and vertical text on the right side.

ISSUED FOR CLIENT APPROVAL DATE

ISSUED FOR BIDDING

ISSUED FOR PERMIT

ISSUED FOR CONSTRUCTION

REVISIONS

Table with 3 columns: MARK, DESCRIPTION, DATE. Contains one revision entry: ISSUE FOR PROGRESS REVIEW, 02/06/2026.

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MEP SPECIFICATIONS

SHEET NO.

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MEP2.02



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E/P/E PROJECT NUMBER: 26031.00

ELECTRICAL LIGHTING GENERAL NOTES:

- MEP SPECIFICATIONS SHALL APPLY TO ALL WORK SHOWN ON THIS DRAWING UNLESS OTHERWISE NOTED.
- REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL JUNCTION BOXES IN THE JUNCTION BOX GRID AND AVAILABILITY OF ALL CIRCUITS INDICATED TO BE USED.
- ALL LIGHTING FIXTURES, LAMPS AND EXIT SIGNS SHALL MATCH BASE BUILDING STANDARD UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL REFER TO BUILDING MANAGEMENT'S "RULES AND REGULATIONS" TO COMPLY WITH BUILDING STANDARDS.

ELECTRICAL POWER GENERAL NOTES:

- MEP SPECIFICATIONS SHALL APPLY TO ALL WORK ON THIS DRAWING UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECT FOR EXACT HEIGHT AND LOCATION OF ALL FLOOR AND WALL OUTLETS.
- ALL DATA/TELEPHONE OUTLETS SHALL BE PROVIDED WITH PULL STRINGS.
- CONTRACTOR SHALL LOCATE ALL ELECTRICAL & TELEPHONE OUTLETS WITHIN THE LIMITS OF THE TENANT FURNITURE PLAN PROVIDED BY THE ARCHITECT. CONTRACTOR SHALL MARK INTENDED LOCATION OF ALL OUTLETS PRIOR TO INSTALLATION, THEN SHALL NOTIFY TENANT FOR APPROVAL BEFORE PROCEEDING.
- CONTRACTOR SHALL PROVIDE NEW CIRCUIT DIRECTORY CARD AT PANELS. CIRCUITS SHALL BE LABELED TO CORRESPOND TO THE CIRCUITS SHOWN ON THE DRAWINGS. CONTRACTOR SHALL CONNECT CIRCUITS AS REQUIRED TO COMPLY WITH THIS DRAWING.
- CONDUCTORS SHALL BE #12 AWG SOLID COPPER (THWN) IN 1/2" CONDUIT UNLESS OTHERWISE INDICATED.
- ALL OUTLETS TO BE MOUNTED VERTICALLY UNLESS OTHERWISE INDICATED.
- CONTRACTOR SHALL PROVIDE ONE PULL STRING FOR EACH VOICE OR DATA OUTLET SHOWN. WHEN VOICE AND DATA OUTLETS ARE SHOWN ADJACENT, CONTRACTOR SHALL PROVIDE ONE PULL STRING (WITH ONE WALL PENETRATION) FOR THE PAIR, UNLESS NOTED OTHERWISE. VOICE AND DATA LINES SHALL BE FILLED BY OTHERS.
- CONTRACTOR SHALL REFER TO BUILDING MANAGEMENT'S "RULES AND REGULATIONS" TO COMPLY WITH BUILDING STANDARDS.
- GANG TOGETHER, ALL NEW ELECTRICAL, TELEPHONE AND COMPUTER OUTLETS SHOWN ADJACENT TO EACH OTHER.
- VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.
- COORDINATE THE INSTALLATION OF ELECTRICAL MATERIALS AND EQUIPMENT ABOVE CEILINGS WITH SUSPENSION SYSTEM, MECHANICAL EQUIPMENT AND SYSTEMS, AND STRUCTURAL COMPONENTS. COORDINATE ELECTRICAL EQUIPMENT AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS.
- VERIFY MECHANICAL EQUIPMENT SWITCH AND CONNECTION REQUIREMENTS, ITEM BY ITEM, WITH THE MECHANICAL CONTRACTOR, BEFORE WIRING EQUIPMENT. RESOLVE ALL DISCREPANCIES WITHOUT FURTHER COST TO OWNER.
- FOR RETURN AIR PLENUMS, ALL MATERIALS LOCATED WITHIN A RETURN AIR PLENUM SHALL BE RATED AND APPROVED FOR INSTALLATION IN A RETURN AIR PLENUM.

ELECTRICAL DISTRIBUTION DIAGRAM NOTES:

- CONDUCTOR SIZES SHOWN ARE FOR COPPER CONDUCTORS WITH THIN INSULATION IN EMT (4" C. OR LESS) OR RIGID CONDUIT (> 4" C.) PROVIDE GROUNDING CONDUCTORS FOR ALL CONDUIT. GROUNDING CONDUCTORS ARE NEEDED FOR ALL PVC CONDUIT.
- SHORT CIRCUIT CURRENT VALUES ARE GIVEN IN RMS SYMMETRICAL AMPERES. PREFIX 'FCA' INDICATES MAXIMUM AVAILABLE FAULT CURRENT. PREFIX 'FCL' INDICATES APPARENT LET-THRU CURRENT FROM UPSTREAM CURRENT LIMITING DEVICE.
- ELECTRICAL SYSTEM SHALL BE FULLY RATED. SERIES RATED EQUIPMENT IS NOT ACCEPTABLE.
- PROVIDE FULL LENGTH, FULL SIZE INSULATED GROUND AND NEUTRAL BUS IN ALL PANELBOARDS.
- REFER TO ELECTRICAL UTILITY SPECIFICATIONS FOR ALL WORK AT SERVICE POINT OF ATTACHMENT.
- CONTRACTOR TO VERIFY FAULT CURRENT AVAILABLE AT UTILITY TRANSFORMER SECONDARY WITH ELECTRICAL UTILITY FOR THE FINAL SELECTION OF EQUIPMENT AIC RATINGS.
- SPARES AND SPACES ARE INDICATED ON PANELBOARD SCHEDULES.
- FLEXIBLE METAL CONDUIT SHALL NOT BE USED IN WET LOCATIONS OR WET AREAS.
- ALL FEEDER AND BRANCH CIRCUIT WIRING METHODS SHALL INCLUDE AN EQUIPMENT-GROUNDING CONDUCTOR PER NEC.
- ALL CONDUIT BELOW GRADE OR IN CONCRETE SLABS SHALL BE PVC. MAXIMUM CONDUIT SIZE FOR CONDUIT IN CONCRETE SLABS IS 3/4".
- A PERMANENTLY AFFIXED LABEL SHALL BE APPLIED WITH THE AVAILABLE FAULT CURRENT AT THE TIME OF INSTALLATION AND CALCULATION. THE LABEL SHALL BE 2 X 3 IN SIZE AND SHALL BE BLUE LETTERING ON A CONTRASTING BACKGROUND. THIS LABEL SHALL ALSO INCLUDE THE DATE OF THE CALCULATION. CON ELECTRICAL CODE 504.1.1.

LEGEND OF ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	FAULT CURRENT CALCULATION RESULTS.
	CONDUIT RUN CONCEALED IN WALLS OR ABOVE CEILING. ARROW INDICATES HOMERUN TO PANEL. CONDUCTOR DESIGNATIONS ARE AS FOLLOWS: LONG HATCH INDICATES NEUTRAL, SHORT HATCH INDICATES PHASE, " " INDICATES INSULATED OR ISOLATED GROUND, " " INDICATES SWITCHLEG, AND NO HATCHES INDICATES TWO CONDUCTORS.
	PARTIAL HOME RUN. SAME AS ABOVE.
	CONDUIT RUN CONCEALED IN FLOOR SLAB, BELOW FLOOR SLAB OR BELOW GRADE. WIRING SAME AS ABOVE.
	DUPLEX RECEPTACLE OUTLET; 20 AMP, 125V., 3 WIRE, GROUNDED TYPE.
	QUADRUPLEX RECEPTACLE OUTLET GANGED WITH A COMMON WALL PLATE; (2)-20 AMP, 125V, 3 WIRE, GROUNDED TYPE.
	DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT INTERRUPTER; 20 AMP, 125V., 3 WIRE GROUNDED TYPE.
	JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING.
	DISCONNECT IN A NEMA 1 ENCLOSURE, UNLESS OTHERWISE SPECIFIED. REFER TO DRAWINGS FOR AMPERAGE, PHASES, & FUSE SIZE. (IF REQUIRED)
	MOTOR STARTER / DISCONNECT IN A NEMA 1 ENCLOSURE, UNLESS OTHERWISE SPECIFIED. REFER TO DRAWINGS FOR AMPERAGE, PHASES, FUSE SIZE (IF REQUIRED), AND SIZE.
	TRANSFORMER - REFER TO DRAWINGS FOR VOLTAGE AND AMPERAGE.
	SURFACE PANELBOARD W/ NEC CLEARANCES; 120/208 VOLT. SURFACE PANELBOARD W/ NEC CLEARANCES; 277/480 VOLT.

NOTES: 1. ALL SYMBOLS MAY NOT BE USED ON THIS DRAWINGS.
2. REFER TO SPECIFICATIONS FOR MOUNTING HEIGHTS

LIGHT FIXTURE SCHEDULE

LABEL	MANUFACTURER + SPECIFICATION	MOUNTING	LAMP (NO./TYPE)	VOLTS	REMARKS
SL3	LSI MRS-LED-24L-SIL-5W-UNV-DIM-40-70CRI-FINISH	POLE	LED (196 WATTS EACH, 588 WATTS TOTAL)	120	THREE POLE LED FIXTURES ON POLE AT 30' A.F.F.
SL4	LSI MRS-LED-24L-SIL-5W-UNV-DIM-40-70CRI-FINISH	POLE	LED (196 WATTS EACH, 784 WATTS TOTAL)	120	FOUR POLE LED FIXTURES ON POLE AT 30' A.F.F.
D	WILLIAMS 4DR-IL-L30/840-DIM-UNV-LW-OF-CS-WE TCC	RECESSED	LED (27.8 WATTS)	120	
DE	WILLIAMS 4DR-IL-L30/840-DIM-UNV-LW-OF-CS-WE TCC	RECESSED	LED (27.8 WATTS)	120	PROVIDE WITH 90-MINUTE BATTERY BACK.

THIS FIXTURE SCHEDULE IS INTENDED TO PROVIDE GENERAL LIGHTING FIXTURE QUALITY AND PERFORMANCE REQUIREMENTS ONLY. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN THE EXACT MODEL/CATALOG NUMBER OF THE LIGHTING FIXTURES LISTED ABOVE. ANY DIFFERENCES BETWEEN THIS LIGHTING FIXTURE SCHEDULE AND ARCHITECTURAL DRAWINGS OR MANUFACTURERS PRODUCT LISTINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.

ISSUED FOR CLIENT APPROVAL	DATE
ISSUED FOR BIDDING	
ISSUED FOR PERMIT	
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE
	ISSUE FOR PROGRESS REVIEW	02/06/2026
	ISSUE FOR PERMIT & CONSTRUCTION	03/03/2026

PRINT DATE



DRAWING TITLE
ELECTRICAL INFORMATION SHEET

SHEET NO.

E0.01



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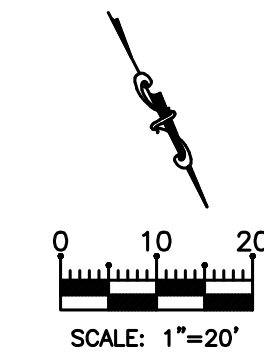
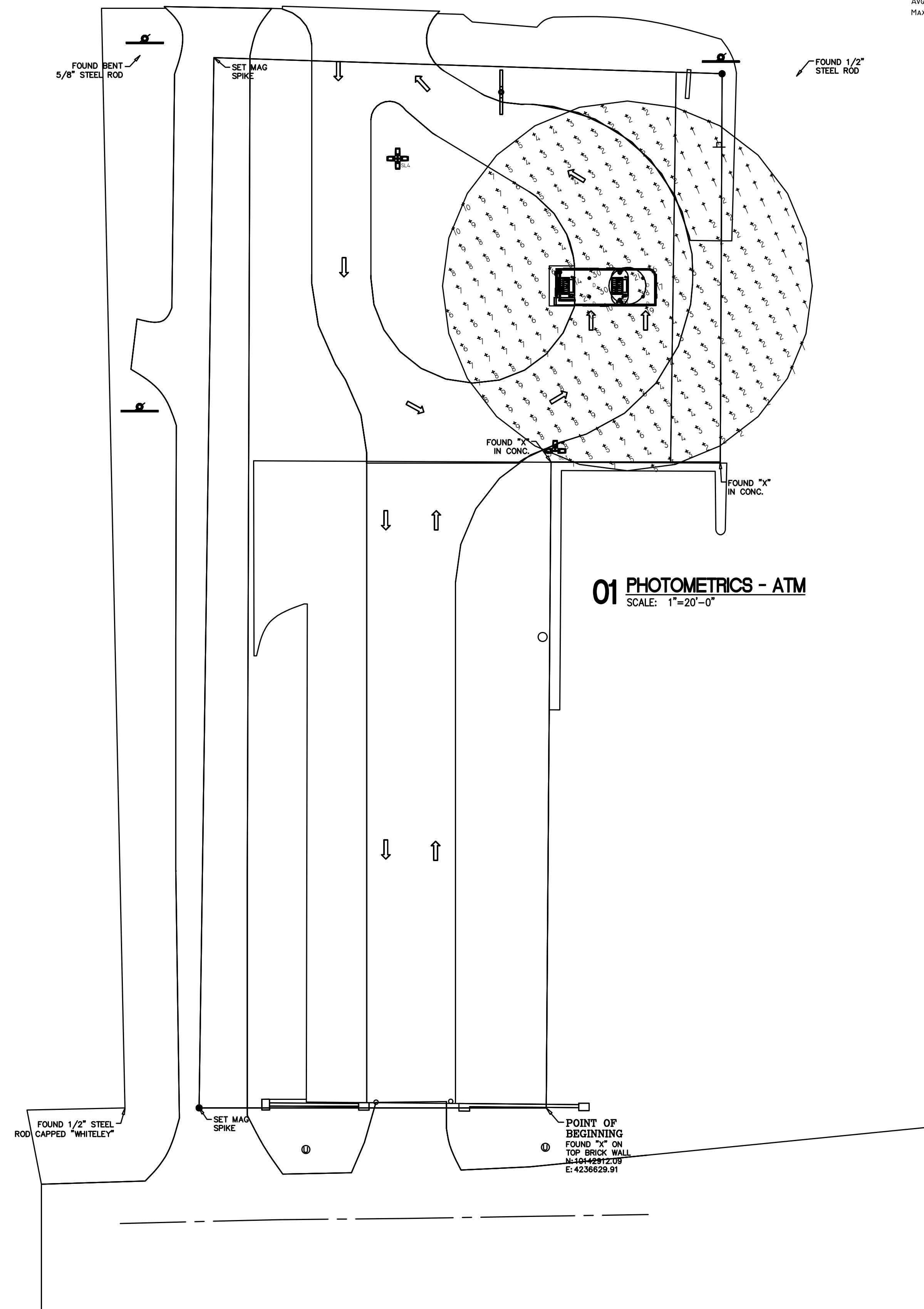
E/B/E PROJECT NUMBER: 2603100

LUMINAIRE SCHEDULE									
SYMBOL	QTY	LABEL	MOUNTING HEIGHT	ARRANGEMENT	DESCRIPTION	LLF	LUMINAIRE LUMENS	LUMINAIRE WATTS	TOTAL WATTS
1	1	SL3	30	3 @ 90 DEGREES	LST P/N: MRS-LED-24L-SIL-SW-LRV-DIM-40-70CRI-FINISH	0.850	23578	196	589
2	1	SL4	30	4 @ 90 DEGREES	LST P/N: MRS-LED-24L-SIL-SW-LRV-DIM-40-70CRI-FINISH	0.850	23578	196	784
3	4	D	9.79	SINGLE	WILLIAMS P/N: 4DR-TL-L50/840-DIM-UNV-LW-OF-CS-WETCC	0.850	2042	27.8	111.2

CALCULATION SUMMARY						
LABEL	CALCTYPE	UNITS	AVG	MAX	MIN	AVG/MIN
CALCS @ 50' RADIUS ADDED POLE	ILLUMINANCE	FC	5	38	1	38
ITM FACE ITM FACE	ILLUMINANCE	FC	7	8	7	1
5' RADIUS FROM ITM FACE ADDED POLE	ILLUMINANCE	FC	14	38	7	5

5' RADIUS FROM ITM FACE ADDED POLE

ILLUMINANCE (FC)
 AVERAGE = 14
 MAXIMUM = 38
 MINIMUM = 7
 AVG/MIN RATIO = 2
 MAX/MIN RATIO = 5



01 PHOTOMETRICS - ATM
 SCALE: 1"=20'-0"

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PHOTOMETRICS - ATM

SHEET NO.

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