

Fig. 306.2
Toe Clearance

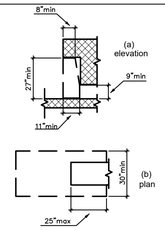


Fig. 306.3
Knee Clearance

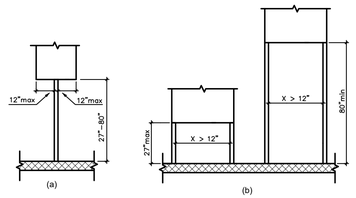


Fig. 307.3
Post-Mounted Protruding Objects

NOTE FROM TEXT: Advisory 502.4 Floor or Ground Surfaces. Built up curb ramps shall be located so they do not protrude into vehicular lanes or into parking space access aisles.

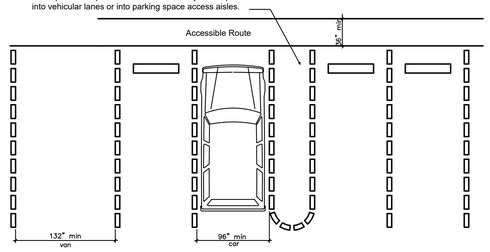


Fig. 502.2
Vehicle Parking Spaces

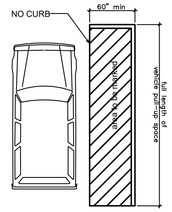


Fig. 503.3 / Fig. 502.3
Access Aisle at Passenger Loading Zones

TOTAL PARKING SPACES IN LOT OR GARAGE	MINIMUM REQUIRED NUMBER OF ACCESSIBLE SPACES
1-25	1
26-50	2
51-75	3
76-100	4
101-150	5
151-200	6
201-300	7
301-400	8
401-500	9
501-1,000	2% of total spaces 20 spaces plus 1 space for every 100 spaces, or fraction thereof over 1,000
OVER 1,000	

TABLE PER THE FOLLOWING CODES SECTIONS: 2009 INTERNATIONAL BUILDING CODE, TABLE 1106.1, AND TEXAS ACCESSIBILITY STANDARDS TABLE 208.2 VERIFY WITH LOCAL MUNICIPALITY AND ADDITIONAL ORDINANCES, AMENDMENTS OR MODIFICATIONS.

REQUIRED ACCESSIBLE PARKING SPACES

SITE, PARKING, ENTRANCE

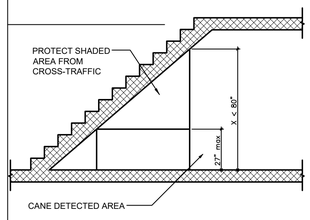


Fig. 307.4
Vertical Clearance

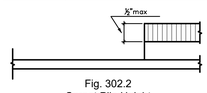


Fig. 302.2
Carpet Pile Height

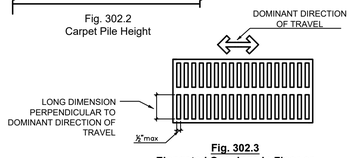


Fig. 302.3
Elongated Openings in Floor or Ground Surfaces

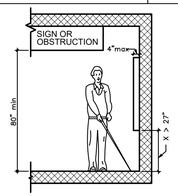


Fig. 307.2
Limits of Protruding Objects

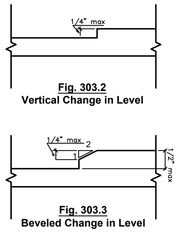


Fig. 303.2
Vertical Change in Level

Fig. 303.3
Beveled Change in Level

Slope	Maximum Rise
Steeper than 1:10 but not steeper than 1:8	3 inches (75 mm)
Steeper than 1:12 but not steeper than 1:10	6 inches (150 mm)

Table 405.2
Maximum Ramp Slope and Rise for Existing Sites, Buildings, and Facilities

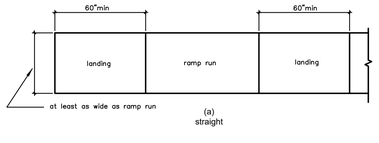


Fig. 405.7
Ramp Landings

PROTRUSIONS AND OBSTRUCTIONS ON AN ACCESSIBLE PATH

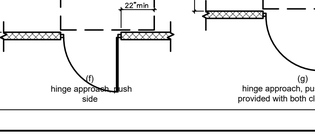


Fig. 505.10.1
Example of Clear Width and Edge Protection

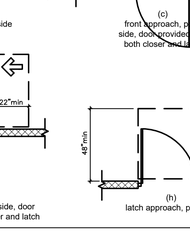


Fig. 505.4 Handrail Height

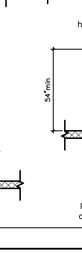
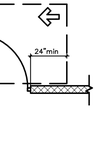


Fig. 505.5
Handrail Clearance

Fig. 505.6
Horizontal Projections Below Gripping Surface



Note X = tread depth

Fig. 505.10.3
Bottom Handrail Extension at Stairs

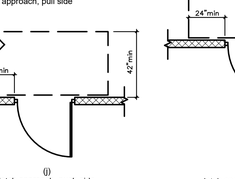


Fig. 504.5
Stair Nosings

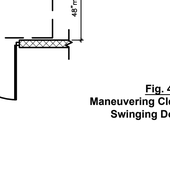


Fig. 405.9.2
Curb or Barrier Edge Protection

Fig. 405.9.1
Extended Floor or Ground Surface Edge Protection

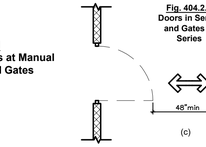


Fig. 406.6
Diagonal or Corner Type Curb Ramps

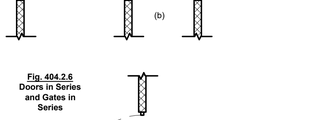


Fig. 406.3
Sides of Curb Ramps

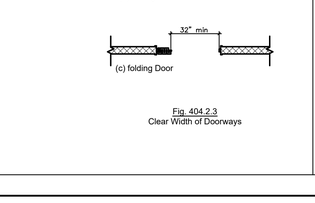


Fig. 406.4
Landings at the Top of Curb Ramps

RAMPS, SLOPES AND ASSOCIATED HANDRAILS

Fig. 404.2.4.2
Maneuvering Clearances at Doorways Without Doors Sliding Doors, Gates, and Folding Doors

Fig. 404.2.4.3
Maneuvering Clearances at Recessed Doors and Gates

Fig. 407.2.2.2
Visible Hall Signals

Fig. 407.2.1.1
(Exception)Height

Table 407.4.7.1.3
Elevator Control Button Identification

Fig. 407.4.1
Elevator Car Dimensions

RAMPS, ELEVATORS, STAIRS AND ASSOCIATED HANDRAILS

Fig. 404.2.4.1
Maneuvering Clearances at Manual Swinging Doors and Gates

Fig. 404.2.6
Doors in Series and Gates in Series

Fig. 404.2.3
Clear Width of Doorways

DOORS AND PASSAGEWAYS

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

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NECHES LUMBERTON OFFICE ADDITION
299 Country Lane at U.S. 69
Lumberton, Texas 77657

PROJECT NUMBER : 8983

ISSUED FOR	DATE
ISSUED FOR CLIENT APPROVAL	04.14.26
ISSUED FOR BIDDING	04.30.26
ISSUED FOR PERMIT	04.30.26
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE

The information, ideas, designs, details, layouts, techniques, features, arrangements, plans, sequences, dimensions, allowances, tolerances, conceptions, specifications, intentions, technology or embodiments, as illustrated, arranged, displayed, noted, recorded, indicated, represented, disclosed, evidenced, detailed or otherwise reduced to tangible form hereon, either expressly, inherently or by implication, are the confidential and proprietary information of SLI Design, Inc., and shall not be used for any purpose other than the specific project or undertaking identified on the drawing title block or legend for which they are and have been prepared by SLI Design, Inc. Any other reproduction, disclosure or use of any portion of the confidential and proprietary information of SLI Design, Inc., shall be a breach of the obligation of confidence created by the acceptance of this drawing from SLI Design, Inc. for a specific project or Contract. Any copying, duplicating, reproducing, utilization, alteration, modification, revision or change to this drawing, is expressly prohibited unless done with the prior written consent or approval of SLI Design, Inc., and shall not be undertaken without receipt of such prior written approval. This drawing is loaned by SLI Design, Inc., for the limited purpose of complying with a specific Contract. The drawing remains the property of SLI Design, Inc., and shall be returned upon request or completion of the contract, unless specifically authorized by Contract, under which it was loaned.

PRINT DATE Apr 30, 2026 – 11:42am

REGISTERED ARCHITECT THOMAS B. BAKER 14288 STATE OF TEXAS
04/30/26

DRAWING TITLE
Accessibility Route Compliance

DRAWN BY	RG
CHECKED BY	TL
APPROVED BY	TB

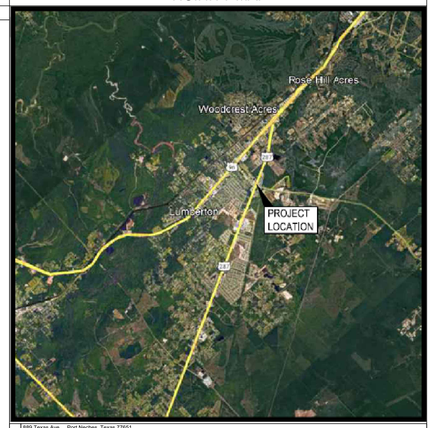
SHEET NO.
T-1.10

NECHES LUMBERTON OFFICE ADDITION
Lumberton, Texas 77657 299 Country Lane at U.S. 69

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	LTG	LIGHTING
BLDG.	BUILDING	MAX	MAXIMUM
BLKG	BLOCKING	MBM	METAL BUILDING MANUFACTURER
BM	BEAM	MECH	MECHANICAL
BO	BOTTOM OF	MEMB	MEMBRANE
BRG	BEARING	MFR	MANUFACTURER
CBD	CHALKBOARD	MIN	MINIMUM
CI	CAST IRON	MISC	MISCELLANEOUS
CIP	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
DIA	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	REINF	REINFORCING or REINFORCED
EQUIP	EQUIPMENT	REQ	REQUIRED
EXIST	EXISTING	REV	REVISION
FD	FLOOR DRAIN	RM	ROOM
FDN	FOUNDATION	RO	ROUGH OPENING
FE	FIRE EXTINGUISHER	RTU	ROOF TOP UNIT
FEC	FIRE EXTINGUISHER CABINET	SECT	SECTION
FF	FINISH FLOOR	SIM	SIMILAR
FFE	FINISH FLOOR ELEVATION	SPEC	SPECIFICATION
FFT	FINISH FLOOR TRANSITION	SQ	SQUARE
FIN	FINISH	SSTL	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	T	TREAD
FV	FIELD VERIFY	TBD	TO BE DETERMINED or TACKBOARD
GA	GAUGE	TD	TRENCH DRAIN
GALV	GALVANIZED	TO	TOP OF
GC	GENERAL CONTRACTOR	TOC	TOP OF CONCRETE
GL	GLASS	TOS	TOP OF STEEL
GYP BD	GYPSUM BOARD	TOW	TOP OF WALL
HC	HANDICAP ACCESSIBLE	THK	THICK
HDW	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	WDW	WINDOW
		WF	WIDE FLANGE
IN	INCH	WPR	WATERPROOFING

VICINITY MAP



889 Texas Ave. , Port Neches, Texas 77651
PROJECT LOCATION

TYPICAL MOUNTING HEIGHTS:

ELECTRICAL	
CONVENIENCE OUTLETS	15" (FL. TO BOTTOM OF BOX U.N.O. ON PLAN)
LIGHT SWITCHES	45" (FLOOR TO BOTTOM OF BOX)
FIRE ALARM PULL STATIONS	48" (FLOOR TO HORIZONTAL PULL)
TELEPHONE OUTLETS	15" (FLOOR TO BOTTOM OF BOX)
WALL TELEPHONE OUTLETS	45" (FLOOR TO BOTTOM OF BOX)
DATA CABLE OUTLETS	15" (FLOOR TO BOTTOM OF BOX)
SMOKE AND/OR HEAT DETECTORS	CEILING MOUNT
PLUMBING	
LAVATORIES	27" min. - 29" (FLOOR TO UNDERSIDE OF APRON)
HANDICAPPED-ACCESSIBLE (KNEE SPACE)	34" (FLOOR TO TOP OF APRON)
WATER CLOSET HANDICAPPED-ACCESSIBLE	18" (FLOOR TO TOP OF RIM)
FLUSH CONTROLS	44" (FLOOR TO CENTER LEVER)
ARCHITECTURAL	
GRAB BARS	36" (1 1/2" DIAMETER) (FLOOR TO TOP OF BAR)
PAPER TOWEL DISPENSER	40" (FLOOR TO TOWEL SLOT)
TOILET TISSUE HOLDER	19" (FLOOR TO CENTER ROLL) 36" (MAXIMUM FOR REAR WALL)
SOAP DISPENSER	48" (FLOOR TO CENTER OF PUSH BOTTOM)
MIRRORS	40" (FLOOR TO BOTTOM OF MIRROR)

(FOR MORE INFORMATION ON MOUNTING HEIGHTS FOR ACCESSIBLE ELEMENTS AND AREAS,SEE SHEETS A-0.0 AND A-0.1.)

GENERAL
T-1.00 TITLE SHEET
T-1.10 ACCESSIBILITY ROUTE COMPLIANCE
T-1.11 ACCESSIBILITY ELEMENT COMPLIANCE
T-1.20 LIFE SAFETY PLAN

CIVIL
C1 COVER SHEET
C2 GENERAL NOTES
C3 DEMOLITION PLAN
C4 OVERALL SITE PLAN
C5 EXISTING DRAINAGE AREA MAP (FOR REFERENCE ONLY)
C6 DRAINAGE PLAN
C7 GRADING & DRAINAGE PLAN
C8 CONTROL JOINT PLAN
C9 STORM WATER POLLUTION PREVENTION MAP
C10 STORM WATER POLLUTION PREVENTION DETAILS

ARCHITECTURAL
SP-1.00 DEMO SITE PLAN
SP-1.10 SITE PLAN
D-1.00 OVERALL PLAN
D-1.10 DEMO PLAN
D-4.00 DEMO RCP
D-6.00 DEMO ELEVATIONS
A-1.00 FLOOR PLAN
A-2.00 WINDOW & DOOR SCHEDULE
A-3.00 INTERIOR PARTITIONS
A-4.00 RCP
A-5.00 ROOF PLAN
A-6.00 BUILDING ELEVATIONS
A-7.00 BUILDING SECTIONS
A-8.00 WALL SECTIONS
A-9.00 DETAILS
A-10.00 INTERIOR ELEVATIONS
A-11.00 MILLWORK DETAILS
A-12.00 FINISH FLOOR PLAN
A-13.00 ELECTRICAL PLAN
A-14.00 INTERIOR SIGNAGE

STRUCTURAL
S0.00 GENERAL NOTES
S0.01 GENERAL NOTES
S0.02 TESTING NOTES
S1.01 FOUNDATION PLAN
S2.01 ROOF FRAMING PLAN
S3.01 FOUNDATION DETAILS
S3.02 FOUNDATION DETAILS
S4.01 FRAMING DETAILS
S4.02 FRAMING DETAILS

ELECTRICAL
MEP1.00 MEP SPECIFICATIONS
MEP2.00 MEP SPECIFICATIONS
MEP3.00 MEP SPECIFICATIONS
MEP4.00 PHOTOMETRIC-SITE
MEP4.01 PHOTOMETRIC-INTERIOR
E1.00 ELECTRICAL INFORMATION
E2.00 ELECTRICAL LIGHTING PLAN
E3.00 ELECTRICAL POWER PLAN
E4.00 ELECTRICAL SCHEDULES
P1.00 PLUMBING INFORMATION
P2.00 PLUMBING PLAN

MAY 04, 2026: ISSUED FOR BID

TDLR PROJECT NUMBER
TABS2026017309

BUILDING CODE AND PROJECT INFORMATION

SCOPE OF WORK
AN 877 SQ FT BUILDING ADDITION TO THE NECHES FEDERAL CREDIT UNION BRANCH LOCATED AT 299 COUNTRY LN DR, LUMBERTON, TX 77657 THIS ADDITION WILL BE ON THE SOUTHEAST SIDE FOR 3 ADDITIONAL OFFICES AND BREAKROOM. THE WORK SHALL BE COMPLETED DURING REGULAR BUSINESS HOURS.

BUILDING CODE
2015 IBC WITH CITY OF LUMBERTON AMENDMENTS
2014 NEC WITH CITY OF LUMBERTON AMENDMENTS

DRAWING SYMBOLS LEGEND

SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
	NORTH ARROW	P3	PARTITION TYPE	A B 1 2	COLUMN GRID
01 FLOOR PLAN 1/4"=1'-0"	DRAWING NAME, NUMBER, AND SCALE	W	WINDOW TYPE	C.L.	CENTERLINE
A4.0	ENLARGED DETAIL REFERENCE	000	DOOR IDENTIFICATION		BREAK LINE
02/A6.0	EXTERIOR ELEVATION	OFFICE 125	ROOM NAME ROOM NUMBER		SPOT ELEVATION
1 A7.01 / 1 A7.01	BUILDING SECTION	02/A10.0	INTERIOR ELEVATION		
3 A8.01	WALL SECTION	2'-0" / 2'-0"	DIMENSION LINES		
2A/A3.1	SECTION DETAIL		MATCH LINE		
FIRST FLOOR 0"	VERTICAL ELEVATION	4	REVISION NUMBER & AFFECTED AREA		
		FE	FIRE EXTINGUISHER		

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 LATCH AND CLOSER.
5. ALL DOORS TO RECEIVE NEW AMERICAN DISABILITIES ACT COMPLIANT HARDWARE.
6. ADHERE CITY OF DEER PARK COMMERCIAL PROJECT CHAPTER 61 SUMMARY AND CHECKLIST AND CONSTRUCTION MATERIAL AND WASTE MANAGEMENT PLAN
7. COMPLY WITH ALL 2012 TAS GUIDELINES
8. INDOOR AIR QUALITY TESTING REQUIRED WHEN LEVELS OF VOCs EXCEED 500 MICROGRAMS PER CUBIC METERREFERENCE 804.2 OF GREEN ORDINANCE
9. INDOOR AIR QUALITY DURING CONSTRUCTION SHALL COMPLY WITH IgCC 2015 STANDARDS (REF SECTION 803.1.2)

PROJECT TEAM

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

STRUCTURAL ENGINEER
CJG Engineers - Houston LLC
6051 North Course Drive, Suite 375
Houston, Texas 77072

CIVIL ENGINEER
ProE Consulting
1334 Brittmoore, Suite 2808
Houston, TX 77043

MEP ENGINEER
EBE CONSULTING ENGINEERS
12603 SOUTHWEST FRWY, STE 170,
STAFFORD, TX 77477

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

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NECHES LUMBERTON OFFICE ADDITION
299 Country Lane at U.S. 69
Lumberton, Texas 77657

PROJECT NUMBER : 8983

	DATE
ISSUED FOR CLIENT APPROVAL	04.14.26
ISSUED FOR BIDDING	04.30.26
ISSUED FOR PERMIT	04.30.26
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE

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04/30/26

DRAWING TITLE
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SHEET NO.
T-1.00

MANEUVERING, TURNING & CLEAR FLOOR SPACE

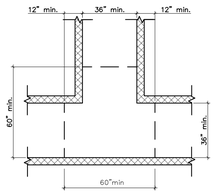


Fig. 304.3.2
T-Shaped Turning Space

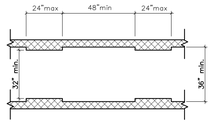
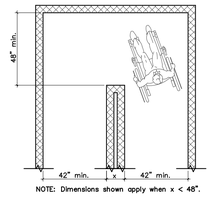


Fig. 403.5.1
Clear Width of an Accessible Route



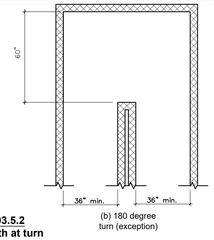


Fig. 403.5.2
Clear Width at turn

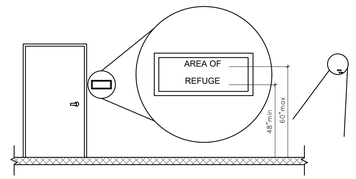


Fig. 703.4.1
Height of Tactile Characters Above Finish Floor or Ground

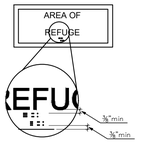


Fig. 703.3.2
Position of Braille

Measurement Range	Minimum in Inches Maximum in Inches
Dot Base Diameter	0.059" (1.5 mm) to 0.063" (1.6 mm)
Distance between two dots in the same cell	0.090" (2.3 mm) to 0.100 (2.5 mm)
Distance between corresponding dots in adjacent cells	0.241 (6.1 mm) to 0.300 (7.6 mm)
dot height	0.025 (0.6 mm) to 0.037 (0.9 mm)
Distance between corresponding dots from one cell directly below	0.395 (10 mm) to 0.400 (10.2 mm)

Table 703.3.1
Braille Dimensions

SEATING CLEARANCE, CLEAR FLOOR SPACE,APPROACHES, ALCOVES,& REACH RANGES

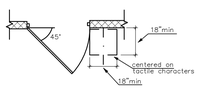


Fig. 703.4.2
Location of Tactile Signs at Doors

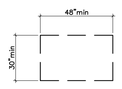


Fig. 305.3
Clear Floor or Ground Space

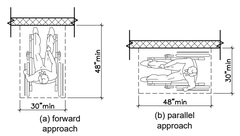


Fig. 305.5
Position of Clear Floor or Ground Space

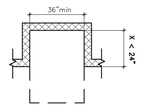


Fig. 305.7.1
Maneuvering Clearance in an Alcove, Forward Approach

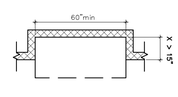


Fig. 305.7.2
Maneuvering Clearance in an Alcove, Parallel Approach

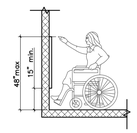


Fig. 308.2.1
Unobstructed Forward Reach

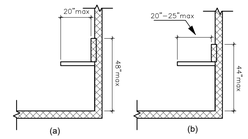


Fig. 308.2.2
Obstructed High Forward Reach

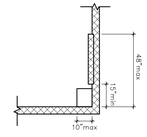


Fig. 308.3.1
Unobstructed Side Reach

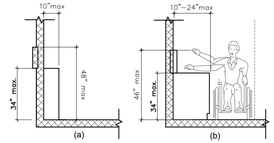


Fig. 308.3.2
Obstructed High Side Reach

WATER FOUNTAINS, AND SERVING LINES HEIGHTS AT PHONES,

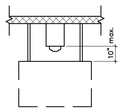


Fig. 704.2.1.1
Parallel Approach to Telephone

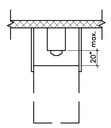


Fig. 704.2.1.2
Forward Approach to Telephone

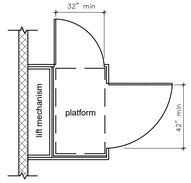


Fig. 410.6
Platform Lift Doors and Gate

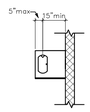
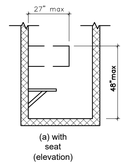
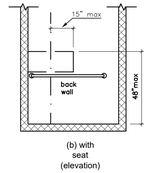
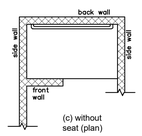


Fig. 602.5
Drinking Fountain Spout Location







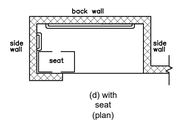


Fig. 608.5.3
Alternate Roll-In Type Shower Compartment Control Location

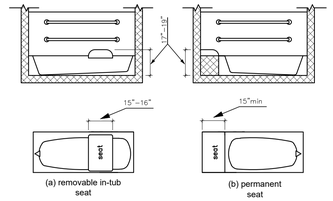
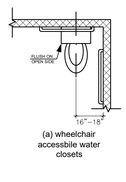


Fig. 610.2
Bathtub Seats

LAVATORIES, WATER CLOSETS & TOILET STALLS



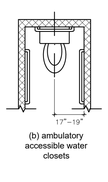


Fig. 604.2
Water Closet Location

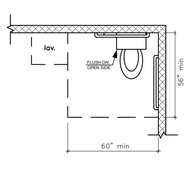


Fig. 604.3.1
Size of Clearance at Water Closets

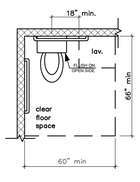


Fig. 604.3.2
(Exception)Overlap of Water Closet Clearance in (Residential Units)

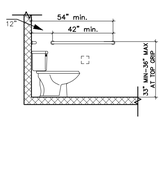


Fig. 604.5.1
Side Wall Grab Bar at Water Closets

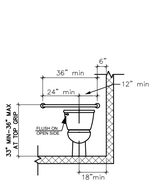


Fig. 604.5.2
Rear Wall Grab Bar at Water Closets

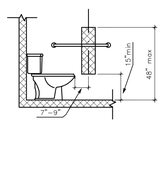


Fig. 604.7
Dispenser Outlet Location

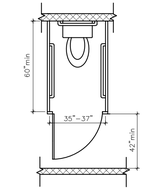


Fig. 604.8.2
Ambulatory Accessible Toilet Compartment

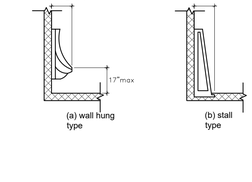


Fig. 605.2
Height and Depth of Urinals

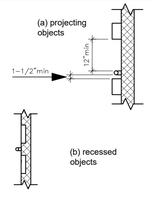
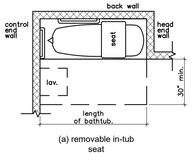
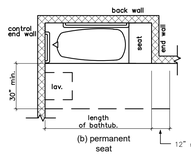


Fig. 609.3
Spacing of Grab Bars

SINKS AND BATH TUBS WITH AND WITHOUT SEATS





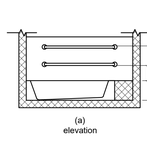


Fig. 607.2
Clearance for Bathtubs

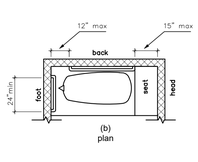
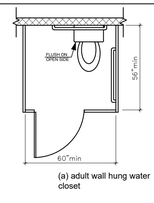


Fig. 607.4.1
Grab Bars for Bathtubs with Permanent Seats



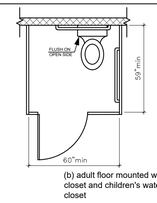


Fig. 604.8.1.1
Size of Wheelchair Accessible Toilet Compartment

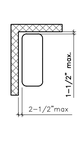


Fig. 610.3.1
Rectangular Shower Seat

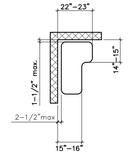


Fig. 610.3.2
L-Shaped Shower Seat

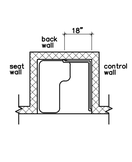


Fig. 608.3.1
Grab Bars for Transfer Type Showers

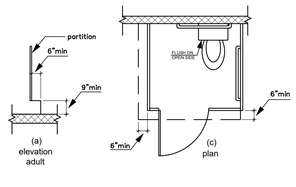


Fig. 604.8.1.4
Wheelchair Accessible Toilet Compartment Toe Clearance

SHOWERS: ROLL IN & TRANSFER STALLS



Fig. 608.2.1
Shower Size and Clearances 36" by 36" Stall

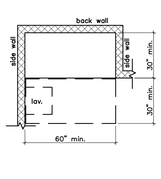


Fig. 608.2.2
Standard Roll-In Type Shower Compartment Size and Clearance

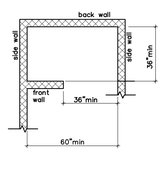


Fig. 608.2.3
Alternate Roll-In Type Shower Compartment Size and Clearance

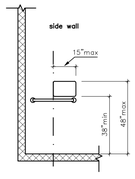


Fig. 608.5.1
Transfer Type Shower Compartment Control Location

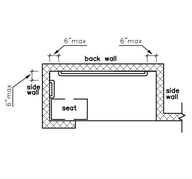


Fig. 608.3.3
Grab Bars for Alternate Roll-In Type Showers

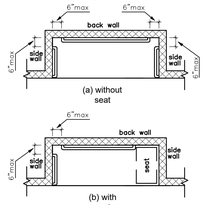


Fig. 608.3.2
Grab Bars for Standard Roll-In Type Showers

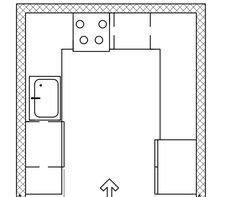
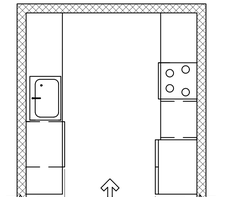


Fig. 804.2.2
U-Shaped Kitchens



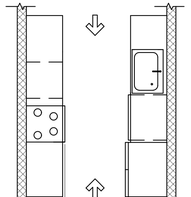


Fig. 804.2.1
Pass Through Kitchens

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

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NECHES LUMBERTON OFFICE ADDITION
299 Country Lane at U.S. 69
Lumberton, Texas 77657

PROJECT NUMBER: 8983

	DATE
ISSUED FOR CLIENT APPROVAL	04.14.26
ISSUED FOR BIDDING	04.30.26
ISSUED FOR PERMIT	04.30.26
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE

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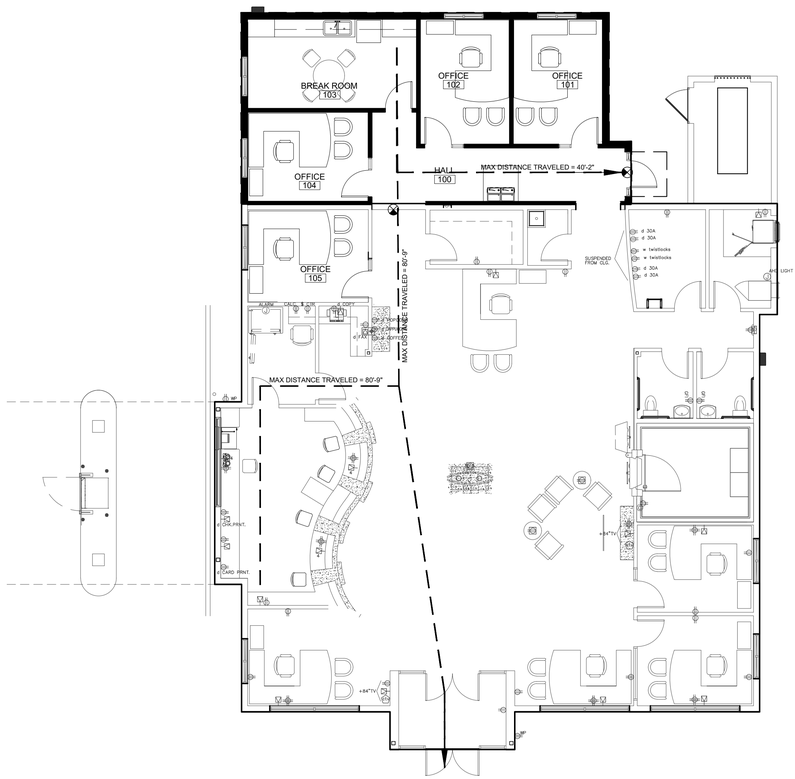
PRINT DATE Apr 30, 2026 – 11:43am

REGISTERED ARCHITECT THOMAS B. BAKER 14298 STATE OF TEXAS
04/30/26

DRAWING TITLE
Accessibility Element Compliance

DRAWN BY	DF
CHECKED BY	TB
APPROVED BY	TB

SHEET NO.
T-1.11



01 LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. ALL DIMENSIONS ARE TO FINISHED FACE OF PARTITIONS; RE: A-3.00 FOR PARTITION WIDTHS.
2. ALL PARTITIONS TO BE TYPE "A1" UNLESS NOTED OTHERWISE.
3. ALL DOORS ON ACCESSIBLE ROUTES SHALL HAVE A MIN. OF 18" CLEAR ON THE PULL SIDE AND A MIN. OF 12" CLEAR ON THE PUSH SIDE WHEN DOOR IS EQUIPPED WITH BOTH A LATCH AND A CLOSER.
4. FIRE EXTINGUISHERS ARE TO BE 10 lb. ABC TYPE, AND LOCATED AS SHOWN, FE .
5. FIRE EXTINGUISHER CABINET SPEC: LARSEN'S-STEEL_2409-R7_VERTICAL DUO_ CLEAR ACRYLIC
6. EGRESS LIGHT FIXTURE AS SHOWN, .
7. EXITING CALCULATIONS :
   REQUIRED EXIT PER I.B.C. 1004.5
   4,328 sq ft /100 GROSS:
   TOTAL OCCUPANCY LOAD: 44 PEOPLE
   REQUIRED EXIT PER I.B.C. 1006.2.1 = 1 EXIT LOCATION REQUIRED
   PROVIDED EXTERIOR EXIT NUMBER AND WIDTH: 2 EXIT LOCATIONS = 72" / 6'-0" (WIDTH) OK

NOTE:
MAXIMUM EXIT TRAVEL DISTANCE PER I.B.C. TABLE 1017.2 = 200'-0"
MAXIMUM EXIT TRAVEL DISTANCE PROVIDED = 80'-9" OK

SLI DESIGN, INC.
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NECHES LUMBERTON OFFICE ADDITION
299 Country Lane at U.S. 69
Lumberton, Texas 77657

PROJECT NUMBER : 8983

ISSUED FOR CLIENT APPROVAL	DATE 04.14.26
ISSUED FOR BIDDING	04.30.26
ISSUED FOR PERMIT	04.30.26
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE

The information, ideas, designs, details, layouts, techniques, features, arrangements, plans, sequences, dimensions, allowances, tolerances, conceptions, specifications, intentions, technology or embodiments, as illustrated, arranged, displayed, noted, recorded, indicated, represented, disclosed, evidenced, detailed or otherwise reduced to tangible form hereon, either expressly, inherently or by implication, are the confidential and proprietary information of SLI Design, Inc., and shall not be used for any purpose other than the specific project or undertaking identified on the drawing title block or legend for which they are and have been prepared by SLI Design, Inc. Any other reproduction, disclosure or use of any portion of the confidential and proprietary information of SLI Design, Inc., shall be a breach of the obligation of confidence created by the acceptance of this drawing from SLI Design, Inc. for a specific project or Contract. Any copying, duplicating, reproducing, utilization, alteration, modification, revision or change to this drawing, is expressly prohibited unless done with the prior written consent or approval of SLI Design, Inc., and shall not be undertaken without receipt of such prior written approval. This drawing is loaned by SLI Design, Inc., for the limited purpose of complying with a specific Contract. The drawing remains the property of SLI Design, Inc., and shall be returned upon request or completion of the contract, unless specifically authorized by Contract, under which it was loaned.

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REGISTERED ARCHITECT
THOMAS B. BAKER
14286
STATE OF TEXAS
04/30/26

DRAWING TITLE
LIFE SAFETY PLAN

DRAWN BY	RG
CHECKED BY	BL
APPROVED BY	TB

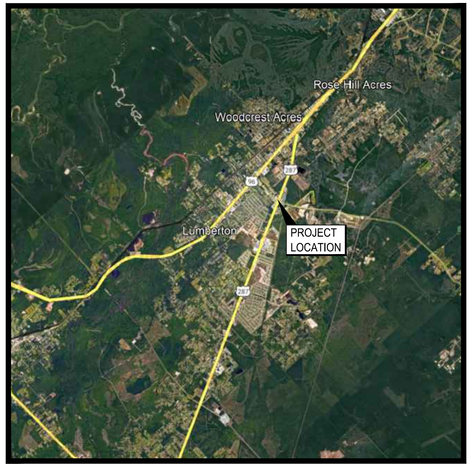
SHEET NO.
T-1.20

CONSTRUCTION PLANS FOR

NECHES FEDERAL CREDIT UNION - LUMBERTON BRANCH BUILDING ADDITION

(PRIVATE ON-SITE)

PAVING & DRAINAGE FACILITIES



LOCATION MAP
SCALE: N.T.S.

299 COUNTRY LANE DRIVE,
LUMBERTON, TEXAS 77657

ProE PROJECT NO. 1018-0015

APRIL, 2026



VICINITY MAP
SCALE: N.T.S.

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
C1	COVER SHEET
C2	GENERAL NOTES
C3	DEMOLITION PLAN
C4	OVERALL SITE PLAN
C5	EXISTING DRAINAGE AREA MAP (FOR REFERENCE ONLY)
C6	DRAINAGE PLAN
C7	GRADING & DRAINAGE PLAN
C8	CONTROL JOINT PLAN
C9	STORM WATER POLLUTION PREVENTION MAP
C10	STORM WATER POLLUTION PREVENTION DETAILS

OWNERS:
NECHES FEDERAL CREDIT UNION
P.O. BOX 1118
PORT NECHES, TEXAS 77651-1118

DATE	REVISION
04/30/2026	ISSUE FOR PERMIT AND BID

PROE CONSULTING
1334 Brittmoore Road
Suite # 2808
Houston, TX 77043
Firm License F-21665
www.proe.consulting

TEMPORARY BENCHMARK "A": ELEV: 38.51'

BEING A RAILROAD SPIKE EMBEDDED IN A POWER POLE. IT IS LOCATED ±110' FROM THE NORTHWESTERN CORNER OF THE PROPERTY. IT IS ALSO LOCATED ±90' FROM THE NORTHEASTERN CORNER OF THE PROPERTY.

TEMPORARY BENCHMARK "B": ELEV: 39.74'

BEING THE SOUTHWESTERN CORNER OF A STORM SEWER MANHOLE. IT IS LOCATED ±60' FROM THE SOUTHWESTERN CORNER OF THE PROPERTY. IT IS ALSO LOCATED ±135' FROM THE SOUTHEASTERN CORNER OF THE PROPERTY.

FLOOD STATEMENT:

THIS PROPERTY LIES WITHIN ZONE "X-UNSHADED"; AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN PER THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 48199C0530F WHICH BEARS AN EFFECTIVE DATE OCTOBER 6, 2010.

811 Know what's **below.** **Call** before you dig.

ONE-CALL NOTIFICATION
SYSTEM
CALL BEFORE YOU DIG!!!
(713)223-4567 (IN HOUSTON)
(NEW STATEWIDE NUMBER OUTSIDE HOUSTON)
1-800-344-8377

CAUTION!
EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

STATE OF TEXAS
JUSTIN A. SCHRADER
103758
LICENSED
PROFESSIONAL ENGINEER
APR 30 2026

Justin A. Schrader

SHEET No: C1 OF C10

PRIVATE PLANS - NECHES FEDERAL CREDIT UNION - LUMBERTON BRANCH BUILDING ADDITION; PROJECT NUMBER: 1018-0015

Date\Time - Thu, 30 Apr 2026 - 8:32am
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Current Plotstyle - ByColor
Acad Version - R25.1
User Name - acad

SANITARY SEWER CONSTRUCTION NOTES

1. ALL SANITARY SEWER LINE CONSTRUCTION SHALL CONFORM TO STANDARDS DEFINED BY LUMBERTON MUNICIPAL UTILITY DISTRICT SPECIFICATIONS FOR CONSTRUCTION 2008.
2. ALL SANITARY SEWER LINES SHALL BE POLYVINYL CHLORIDE (P.V.C.) ASTM 3034, SDR 26 PIPE UNLESS OTHERWISE NOTED.
3. ALL EIGHT–INCH (8") SANITARY SEWER LINES SHALL BE PLACED WITH A MINIMUM SLOPE OF 0.33%.
4. ALL FOUR–INCH (4") SANITARY SEWER LINES SHALL BE PLACED WITH A MINIMUM SLOPE OF 1.00%.
5. ALL SANITARY SEWER LINES SHALL BE BEDDED AND BACKFILLED IN ACCORDANCE WITH CLASS "C" BEDDING DETAIL AS SHOWN ON CONSTRUCTION DETAILS.
6. EXCEPT AS OTHERWISE SHOWN, ALL SANITARY SEWER TRENCHES UNDER OR ADJACENT TO EXISTING OR PROPOSED PAVEMENT AND TO A POINT FIVE (5) FEET BACK OF CURBS SHALL BE BACKFILLED COMPLETELY WITH 1–1/2 SACK/CY CEMENT STABILIZED SAND TO BOTTOM OF PAVEMENT SUBGRADE. INCLUDE COST OF BACKFILL IN UNIT PRICE BID PER LINEAR FOOT OR PIPE.
7. ALL CLEANOUTS AND WYES SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN ON PLANS.
8. WATER UTILIZED FOR TESTING PURPOSES OR WHICH MAY HAVE INFILTRATED THE SEWER LINES SHALL BE PUMPED OUT AND DISPOSED OF BY THE CONTRACTOR PRIOR TO FINAL INSPECTION AT NO SEPARATE PAY.
9. PLUMBING CONTRACTOR TO MAKE SEWER TAP TO CITY SPECIFICATION AND BE INSPECTED BY THE CITY OF LUMBERTON.

WATERLINE CONSTRUCTION NOTES

1. ALL WATER LINE CONSTRUCTION SHALL CONFORM TO STANDARDS DEFINED BY LUMBERTON MUNICIPAL UTILITY DISTRICT SPECIFICATIONS FOR CONSTRUCTION 2008.
2. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING WATER LINES LOCATED WITHIN THE PROJECT AREA.
3. WATER LINE TRENCHES UNDER PAVEMENT OR WITHIN FIVE (5) FEET BACK OF CURBS TO BE BACKFILLED WITH HAND–TAMPED BANKSAND TO A POINT ONE (1) FOOT ABOVE THE TOP PIPE, THEN WITH CEMENT STABILIZED SAND (1–1/2 SACK/CY) TO BOTTOM OF PAVEMENT SUBGRADE. ALL WATER LINES SHALL BE BEDDED AND BACKFILLED IN ACCORDANCE WITH CLASS "C" BEDDING DETAIL AS SHOWN ON CONSTRUCTION DETAILS.
4. NO SEPARATE PAY FOR PIPE BEDDING OR BACKFILL; INCLUDE THIS COST IN CONTRACT PRICE FOR PIPE.
5. EIGHT–INCH (8") WATER LINE SHALL BE POLYVINYL CHLORIDE (P.V.C.) C900 CLASS 150 PRESSURE PIPE.
6. ONE–INCH (1") WATER LINE SHALL BE SDR 9 HDPE PRESSURE PIPE.
7. WATER LINE FITTINGS SHALL BE CEMENT LINED ACCORDING TO AWWA C–104 OR DUCTILE IRON, CONFORM TO AWWA C–110 AND SHALL BE MECHANICAL JOINT.
8. ALL GATE VALVES SHALL BE AMERICAN 80 CRS GATE VALVES OR DISTRICT APPROVED EQUAL.
9. WATER LINES TO HAVE MINIMUM COVER OF 4'–0" BELOW FINISHED TOP OF GRADE, VARY FLOW LINE UNIFORMLY TO DEPTHS AND LOCATIONS SHOWN ON PLANS.
10. CONTRACTOR SHALL PROVIDE VALVE BOX EXTENSIONS WHERE REQUIRED TO CONSTRUCT VALVE BOXES FLUSH WITH PROPOSED GRADES AS SHOWN, AT NO SEPARATE PAY.
11. CONTRACTOR TO PROVIDE ADEQUATE CONCRETE THRUST BLOCKING TO WITHSTAND TEST PRESSURES OR TO PROVIDE FITTINGS WITH RESTRAINED JOINTS.
12. ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE/NATIONAL SANITATION FOUNDATION (ANSI/NSF) STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI.
13. ALL PLASTIC PIPE FOR USE IN PUBLIC WATER SYSTEMS MUST BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL AND HAVE AN ASTM DESIGN PRESSURE RATING OF AT LEAST 150 PSI.
14. WATER LINES SHALL BE INSTALLED TO THE ALIGNMENT SHOW ON THE PLANS. FIELD ADJUSTMENTS TO THE ALIGNMENTS MAY BE NECESSARY TO AVOID UNKNOWN OBSTRUCTIONS.
15. CONNECTIONS TO CITY WATER MAINS SHALL BE PERFORMED BY THE CITY OF LUMBERTON. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST FOR THIS WORK AND SHALL COORDINATE HIS WORK WITH THE CITY. UNLESS SPECIFICALLY SHOWN, COST OF TIE IN SHALL BE INCLUDED IN PRICE BID PER LINEAR FOOT OF WATER LINE.
16. ALL WATER MAINS (AND FIRE LINES, IF ANY) WILL BE HYDROSTATICALLY TESTED PRIOR TO ACCEPTANCE BY CITY.
17. BACTERIOLOGICAL AND PRESSURE TESTING ARE REQUIRED. THE WATER UTILITIES CONSTRUCTION INSPECTOR SHALL BE GIVEN 24 HOUR NOTIFICATION PRIOR TO TESTING.
18. ALL HYDRANTS SHALL BE DARLING B–84–B OR DISTRICT APPROVED EQUAL WITH STORZ CONNECTION.

PAVING CONSTRUCTION NOTES

1. ALL VEGETATION AND TOPSOIL SHALL BE REMOVED PRIOR TO ANY PAVING CONSTRUCTION.
2. ALL SUBGRADE SHALL BE PROOF–ROLLED WITH A PNEUMATIC–TYPE ROLLER TO DETECT WEAK AREA. ALL SUBGRADE CAN BE MOISTURE CONDITIONED AND COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DENSITY (ASTM D698), AT OPTIMUM MOISTURE CONTENT, PLUS 3% OR MINUS 2%. (AS DESCRIBED IN GEOTECHNICAL REPORT NO. 40947 BY TOLUNAY–WONG ENGINEERS, INC.
3. REINFORCING STEEL TO BE PLACED 1/2 FROM BOTTOM OF SLAB AND SUPPORTED ON CHAIRS WHICH WILL ADEQUATELY SUPPORT IT DURING CONSTRUCTION.
4. ALL DOWELS USED FOR EXPANSION JOINTS AND CONSTRUCTION JOINTS MUST BE SUPPORTED ADEQUATELY SO THAT THEIR POSITION WILL BE MAINTAINED DURING CONSTRUCTION.
5. T.C. INDICATES TOP OF CURB ELEVATIONS AND T.P. INDICATES TOP OF PAVEMENT ELEVATIONS.
6. ALL JOINTS SHALL BE SEALED WITH A TxDOT 2004 DMS–6310, CLASS 5 SEALANT.
7. ALL SUBGRADE SHALL BE PROOF ROLLED PRIOR TO LIME STABILIZATION. ANY SOFT AREAS FOUND SHALL BE EXCAVATED AND BACKFILLED WITH AN APPROVED FILL MATERIAL AND COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY.
8. SIDEWALKS AND WHEEL CHAIR RAMPS SHALL BE CONSTRUCTED AS SHOWN ON PLANS.
9. WHERE WATER VALVES FALL WITHIN LIMITS OF SIDEWALK, ADJUST VALUE BOXES TO BE FLUSH WITH SIDEWALK SURFACE.

SEPARATION DISTANCES

THE FOLLOWING RULES APPLY TO SEPARATION DISTANCE BETWEEN POTABLE WATER AND WASTEWATER TREATMENT PLANTS, AND WATERLINES AND SANITARY SEWERS.

(A) WATER LINE/NEW SEWER LINE SEPARATION. WHEN NEW SANITARY SEWERS ARE INSTALLED, THEY SHALL BE INSTALLED NO CLOSER TO WATER LINES THAN NINE FEET IN ALL DIRECTIONS. SEWERS THAT PARALLEL WATERLINES MUST BE INSTALLED IN SEPARATE TRENCHES. WHERE THE NINE FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE FOLLOWING GUIDELINES WILL APPLY:

(1) WHERE A SANITARY SEWER PARALLELS A WATERLINE, THE SEWER SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC MEETING ASTM SPECIFICATIONS WITH A PRESSURE RATING FOR BOTH THE PIPE AND JOINTS OF 150 PSI. THE VERTICAL SEPARATION SHALL BE A MINIMUM OF TWO FEET BETWEEN OUTSIDE DIAMETERS AND THE HORIZONTAL SEPARATION SHALL BE A MINIMUM OF FOUR FEET BETWEEN OUTSIDE DIAMETERS. THE SEWER SHALL BE LOCATED BELOW THE WATERLINE.

(2) WHERE A SANITARY SEWER CROSSES A WATERLINE AND THE SEWER IS CONSTRUCTED OF CAST IRON, DUCTILE IRON OR PVC WITH A MINIMUM PRESSURE RATING OF 150 PSI, AN ABSOLUTE MINIMUM DISTANCE OF 6 INCHES BETWEEN OUTSIDE DIAMETERS SHALL BE MAINTAINED. IN ADDITION THE SEWER SHALL BE LOCATED BELOW THE WATERLINE WHERE POSSIBLE AND ONE LENGTH OF THE SEWER PIPE MUST BE CENTERED ON THE WATERLINE.

(3) WHERE A SEWER CROSSES UNDER A WATERLINE AND THE SEWER IS CONSTRUCTED OF ABS TRUSS PIPE, SIMILAR SEMI–RIGID PLASTIC COMPOSITE PIPE, CLAY PIPE OR CONCRETE PIPE WITH GASKET JOINTS, A MINIMUM TWO FOOT SEPARATION DISTANCE SHALL BE MAINTAINED. THE INITIAL BACKFILL SHALL BE CEMENT STABILIZED SAND (TWO OR MORE BAGS OF CEMENT PER CUBIC YARD OF SAND) FOR ALL SECTIONS OF SEWER WITHIN NINE FEET OF THE WATERLINE. THIS INITIAL BACKFILL SHALL BE FROM ONE QUARTER DIAMETER BELOW THE CENTERLINE OF THE PIPE TO ONE PIPE DIAMETER (BUT NOT LESS THAN 12 INCHES) ABOVE THE TOP OF THE PIPE.

(4) WHERE A SEWER CROSSES OVER A WATERLINE ALL PORTION OF THE SEWER WITHIN NINE FEET OF THE WATERLINE SHALL BE CONSTRUCTED OF CAST IRON, DUCTILE IRON, OR PVC PIPE WITH A PRESSURE RATING OF AT LEAST 150 PSI USING APPROPRIATE ADAPTERS. IN LIEU OF THIS PROCEDURE THE NEW CONVEYANCE MAY BE ENCASED IN A JOINT OF 150 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT 5 FEET INTERVALS WITH SPACERS OR BE FILLED TO THE SPRINGLINE WITH WASHED SAND. THE ENCASEMENT PIPE SHOULD BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEAL.

(B) WATER LINE/MANHOLE SEPARATION. UNLESS SANITARY SEWER MANHOLE THE CONNECTING SEWER CAN BE MADE WATERTIGHT AND TESTED FOR NO LEAKAGE, THEY MUST BE INSTALLED SO AS TO PROVIDE A MINIMUM OF NINE FEET OF HORIZONTAL CLEARANCE FROM AN EXISTING OR PROPOSED WATERLINE. WHERE THE NINE FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, A CARRIER PIPE AS DESCRIBED IN SUBSECTION (A) (4) OF THIS SECTION MAY BE USED WHERE APPROPRIATE.

SANITARY SEWER CONSTRUCTION NOTES

1. ALL SANITARY SEWER LINE CONSTRUCTION SHALL CONFORM TO STANDARDS DEFINED BY LUMBERTON MUNICIPAL UTILITY DISTRICT SPECIFICATIONS FOR CONSTRUCTION 2008.
2. ALL SANITARY SEWER LINES SHALL BE POLYVINYL CHLORIDE (P.V.C.) ASTM 3034, SDR 26 PIPE UNLESS OTHERWISE NOTED.
3. ALL EIGHT–INCH (8") SANITARY SEWER LINES SHALL BE PLACED WITH A MINIMUM SLOPE OF 0.33%.
4. ALL FOUR–INCH (4") SANITARY SEWER LINES SHALL BE PLACED WITH A MINIMUM SLOPE OF 1.00%.
5. ALL SANITARY SEWER LINES SHALL BE BEDDED AND BACKFILLED IN ACCORDANCE WITH CLASS "C" BEDDING DETAIL AS SHOWN ON CONSTRUCTION DETAILS.
6. EXCEPT AS OTHERWISE SHOWN, ALL SANITARY SEWER TRENCHES UNDER OR ADJACENT TO EXISTING OR PROPOSED PAVEMENT AND TO A POINT FIVE (5) FEET BACK OF CURBS SHALL BE BACKFILLED COMPLETELY WITH 1–1/2 SACK/CY CEMENT STABILIZED SAND TO BOTTOM OF PAVEMENT SUBGRADE. INCLUDE COST OF BACKFILL IN UNIT PRICE BID PER LINEAR FOOT OR PIPE.
7. ALL CLEANOUTS AND WYES SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN ON PLANS.
8. WATER UTILIZED FOR TESTING PURPOSES OR WHICH MAY HAVE INFILTRATED THE SEWER LINES SHALL BE PUMPED OUT AND DISPOSED OF BY THE CONTRACTOR PRIOR TO FINAL INSPECTION AT NO SEPARATE PAY.
9. PLUMBING CONTRACTOR TO MAKE SEWER TAP TO CITY SPECIFICATION AND BE INSPECTED BY THE CITY OF LUMBERTON.

STORM SEWER CONSTRUCTION NOTES

1. ALL RCP STORM SEWER SHALL BE A.S.T.M., C–76, CLASS III, REINFORCED CONCRETE PIPE, INSTALLED WITH CLASS "A" BEDDING AS SHOWN ON PLANS.
3. ALL POLYETHYLENE STORM SEWER SHALL BE ADS N–12 PIPE WITH GASKETED JOINTS (OR APPROVED EQUAL), INSTALLED WITH CLASS "A" BEDDING AS SHOWN ON PLANS. NYLOPLAST DRAIN BASINS SHALL BE USED WHERE POSSIBLE.
4. ALL STORM SEWER TRENCHES AND STRUCTURES UNDER OR ADJACENT TO EXISTING OR PROPOSED PAVEMENT, AND TO A POINT FIVE (5) FEET BACK OF CURBS, SHALL BE BACKFILLED COMPLETELY WITH 1–1/2 SACK/CY CEMENT STABILIZED SAND TO BOTTOM OF PAVEMENT SUBGRADE. INCLUDE COST OF BACKFILL IN UNIT PRICE BID PER LINEAR FOOT OF PIPE.

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Houston, TX 77043
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STATE OF TEXAS
JUSTIN A. SCHRADER
103736
LICENSED
PROFESSIONAL ENGINEER
APR 30 2026

DATE	REVISION
04/30/2026	ISSUE FOR PERMIT AND BID

CONSTRUCTION PLANS FOR
NECHES FEDERAL CREDIT UNION
- LUMBERTON BRANCH
BUILDING ADDITION
(PRIVATE ON-SITE)
PAVING & DRAINAGE FACILITIES

299 COUNTRY LANE DRIVE,
LUMBERTON, TEXAS 77657

GENERAL NOTES

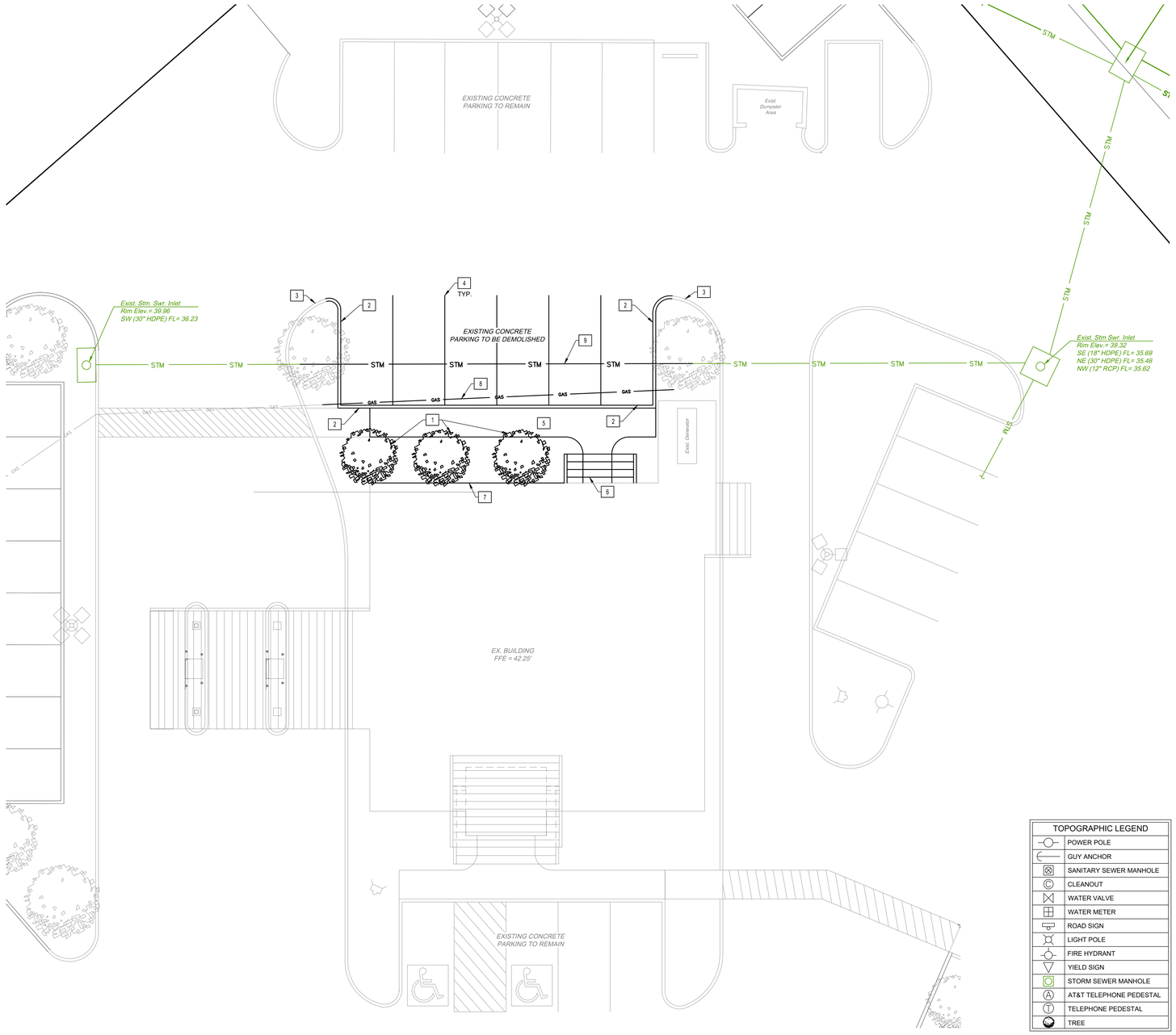
PRO-E PROJECT NO.: 1018-0015

SUBMITTED:
SCALE: N/A
DATE: APRIL, 2026
SURVEYED BY:

DESIGNED BY: JAS
DRAWN BY: KHL/PB
SHEET NO. C2 OF C10
CITY DWG NO:

PRIVATE PLANS - NECHES FEDERAL CREDIT UNION - LUMBERTON BRANCH BUILDING ADDITION; PROJECT NUMBER : 1018-0015

Date\Time : Thu, 30 Apr, 2026 – 8:32am User Name : kendr
Path\Name : C:\Users\kendr\OneDrive – proe.consulting (1)\Projects\1018 – SLI Group\0015 – Neches FCU_Lumberton\2 CAD\Private Phase 3\C2 GENERAL NOTES.dwg



TOPOGRAPHIC LEGEND	
	POWER POLE
	GUY ANCHOR
	SANITARY SEWER MANHOLE
	CLEANOUT
	WATER VALVE
	WATER METER
	ROAD SIGN
	LIGHT POLE
	FIRE HYDRANT
	YIELD SIGN
	STORM SEWER MANHOLE
A	AT&T TELEPHONE PEDESTAL
T	TELEPHONE PEDESTAL
	TREE

KEYED NOTES	
1	CONTRACTOR TO RELOCATE EXISTING TREES.
2	CONTRACTOR TO DEMOLISH EXISTING CURBS.
3	EXISTING CURB TO REMAIN.
4	CONTRACTOR TO REMOVE EXISTING PARKING STRIPE.
5	CONTRACTOR TO DEMOLISH EXISTING SIDEWALK.
6	CONTRACTOR TO DEMOLISH EXISTING BUILDING CANOPY.
7	CONTRACTOR TO REMOVE EXISTING BUILDING WALLS AND PREPARE FOR BUILDING ADDITION. SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS AND DETAILS.
8	CONTRACTOR TO REROUTE EXISTING GAS LINE TO AVOID NEW BUILDING ADDITION. SEE SHEET C7 FOR REVISED GAS LINE LAYOUT.
9	CONTRACTOR TO REROUTE EXISTING 30" STORM PIPE TO AVOID NEW BUILDING ADDITION. SEE SHEET C6 FOR REVISED DRAINAGE LAYOUT.

DEMOLITION NOTES:

1. ALL WORK ON THIS PLAN SHOULD BE PERFORMED IN ACCORDANCE WITH THE PROJECT MANUAL AND GEOTECH REPORT.

2. PROTECTION OF EXISTING FACILITIES
   A. PROTECT EXISTING UTILITIES AND IMPROVEMENTS NOT DESIGNATED FOR REMOVAL AND RESTORE DAMAGED OR TEMPORARILY RELOCATED UTILITIES AND IMPROVEMENTS.
   B. VERIFY EXACT LOCATIONS AND DEPTHS OF UTILITIES SHOWN AND MAKE EXPLORATORY EXCAVATIONS OF UTILITIES THAT MAY INTERFERE WITH THE WORK.
      1) 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.
      2) WHEN EXPLORATORY EXCAVATIONS SHOW UTILITY LOCATION AS SHOWN TO BE IN ERROR, NOTIFY ENGINEER.
   C. PERFORM EXPLORATORY EXCAVATIONS REQUIRED TO SUFFICIENTLY DETERMINE ALIGNMENT AND GRADE OF EXISTING UTILITIES.
   D. TAKE ALL NECESSARY PRECAUTIONS TO PRESERVE PRIVATE AND PUBLIC PROPERTY IN THE IMMEDIATE AREA OF WORK SITES.
   E. ASSUME TOTAL LIABILITY FOR DAMAGE TO PRIVATE AND/OR PUBLIC PROPERTY DURING THE PROSECUTION OF THE WORK.

3. PROTECTION OF SURVEY MARKERS
   A. DO NOT DESTROY, REMOVE, OR OTHERWISE DISTURB EXISTING SURVEY MARKERS OR OTHER EXISTING STREET OR ROADWAY MARKERS WITHOUT PROPER AUTHORIZATION.
   B. CONTACT FORT BEND COUNTY SURVEY OFFICE TO DETERMINE LOCATION OF ALL SURVEY MARKERS.
   C. 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.
   D. ACCURATELY RESTORE SURVEY MARKERS OR POINTS DISTURBED BY CONTRACTOR AT CONTRACTOR'S EXPENSE AFTER WORK HAS BEEN COMPLETED.

4. PAVEMENT
   A. PAVEMENTS SUBJECT TO PARTIAL REMOVAL SHALL BE NEATLY SAW CUT IN STRAIGHT LINES UNLESS OTHERWISE NOTED.

5. DEMOLITION
   A. 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:
      1) 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).
      2) 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
      3) BREAK-UP AND REMOVAL OF SLABS-ON-GRADE. SLABS SHALL BE COMPLETELY REMOVED.
      4) REMOVAL OF UNDERGROUND TANKS, PIPING, AND PUMPS WITH ASSOCIATED WIRING.
      5) FILLING OF ALL SUBGRADE CAVITIES WITH ON-SITE SOIL COMPACTED TO 95 PERCENT DENSITY (ASTM D698).
      6) PROVISIONS FOR TEMPORARY BRACING AND SHORING AS REQUIRED UNTIL DEMOLITION AND BACKFILLING WORK IS COMPLETE.
      7) UNIFORM GRADING OF DEMOLITION AREA TO MATCH EXISTING GRADE OF PERIMETER.
      8) RESTORATION OF SIDEWALKS, BITUMINOUS AND CONCRETE PAVEMENTS, AND ANY OTHER IMPROVEMENTS OR PROPERTY DAMAGED BY DEMOLITION OPERATIONS.
      9) CLEANING OF ADJACENT STRUCTURES, IMPROVEMENTS, STREETS, SIDEWALKS, AND PROPERTY OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS.
      10) 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.
   B. 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.
   C. THE CONTRACTOR SHALL LIMIT DUST AND DIRT CAUSED BY DEMOLITION OPERATIONS SO AS TO COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
   D. DEMOLITION OPERATIONS SHALL NOT INTERRUPT EXISTING UTILITIES SERVING NEIGHBORING PROPERTIES 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.

6. REGULATORY REQUIREMENTS
   A. CONFORM TO APPLICABLE CODE FOR DEMOLITION OF STRUCTURES, SAFETY OF ADJACENT STRUCTURES, DUST CONTROL, RUNOFF CONTROL, AND DISPOSAL.
   B. OBTAIN REQUIRED PERMITS FROM AUTHORITIES.
   C. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS.
   D. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, OR HYDRANTS WITHOUT PERMITS.

7. PREPARATION
   A. PROVIDE, ERECT, AND MAINTAIN TEMPORARY BARRIERS AND SECURITY DEVICES PRIOR TO WORK.
   B. PROTECT EXISTING APPURTENANCES AND STRUCTURES WHICH ARE NOT TO BE DEMOLISHED.
   C. PREVENT MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES. PROVIDE BRACING AND SHORING.
   D. MARK LOCATION OF UTILITIES.

8. PROTECTION OF EXISTING UTILITIES AND IMPROVEMENTS
   A. PROTECT UNDERGROUND UTILITIES AND OTHER IMPROVEMENTS WHICH MAY BE IMPAIRED DURING CONSTRUCTION OPERATIONS.
      1) DETERMINE ACTUAL LOCATION OF EXISTING UTILITIES AND OTHER IMPROVEMENTS THAT WILL BE ENCOUNTERED DURING CONSTRUCTION OPERATIONS.
      2) ADEQUATELY PROTECT UTILITIES AND OTHER IMPROVEMENTS FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS.
      3) TAKE ALL POSSIBLE PRECAUTIONS FOR PROTECTING UNFORESEEN UTILITY LINES TO PROVIDE FOR UNINTERRUPTED SERVICE AND TO PROVIDE NECESSARY SPECIAL PROTECTION.
   B. 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.
   C. UNDERGROUND UTILITIES INDICATED:
      1) 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.
      2) IF DAMAGED, CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE.
   D. 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.
   E. 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.
   F. MAINTAINING IN SERVICE:
      1) 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 FACILITIES.
      2) 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.

9. NOTIFICATION BY CONTRACTOR
   A. 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.
   B. 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.

10. DEMOLITION
    A. CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE WITH ADJACENT STRUCTURES.
    B. CEASE OPERATIONS IMMEDIATELY IF ADJACENT STRUCTURES APPEAR TO BE IN DANGER. NOTIFY OWNER. DO NOT RESUME OPERATIONS UNTIL DIRECTED BY OWNER.
    C. CONDUCT OPERATIONS WITH MINIMUM INTERFERENCE TO PUBLIC OR PRIVATE ACCESS AND COMMERCIAL USES. MAINTAIN PROTECTED EGRESS AND ACCESS AT ALL TIMES.
    D. DEMOLITION ACTIVITIES SHALL BE WHOLLY CONTAINED WITHIN THE PROPERTY BOUNDARY LINES.

11. DEMOLITION REQUIREMENTS
    A. DISCONNECT, CAP, AND IDENTIFY DESIGNATED UTILITIES WITHIN DEMOLITION AREAS.
    B. REMOVE FOUNDATION WALLS AND FOOTINGS TO A MINIMUM OF FIVE FEET BELOW FINISHED GRADE BEYOND AREA OF NEW CONSTRUCTION.
    C. REMOVE CONCRETE SLABS ON GRADE.
    D. BACKFILL OPEN PITS AND HOLES CAUSED AS A RESULT OF DEMOLITION.
    E. ROUGH GRADE AND COMPACT AREAS AFFECTED BY DEMOLITION TO MAINTAIN SITE GRADES AND CONTOURS.
    F. REMOVE DEMOLISHED MATERIALS FROM SITE.
    G. DO NOT BURN OR BURY MATERIALS ON SITE. LEAVE SITE IN CLEAN CONDITION.
    H. CONTRACTOR TO MAINTAIN POSITIVE DRAINAGE AWAY FROM FACILITIES TO REMAIN IN OPERATION DURING DEMOLITION PHASING.

12. 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.

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 inch = 10 ft.

TEMPORARY BENCHMARK "A": ELEV: 38.51'

BEING A RAILROAD SPIKE EMBEDDED IN A POWER POLE. IT IS LOCATED ±110' FROM THE NORTHWESTERN CORNER OF THE PROPERTY. IT IS ALSO LOCATED ±90' FROM THE NORTHEASTERN CORNER OF THE PROPERTY.

TEMPORARY BENCHMARK "B": ELEV: 39.74'

BEING THE SOUTHWESTERN CORNER OF A STORM SEWER MANHOLE. IT IS LOCATED ±60' FROM THE SOUTHWESTERN CORNER OF THE PROPERTY. IT IS ALSO LOCATED ±135' FROM THE SOUTHEASTERN CORNER OF THE PROPERTY.

FLOOD STATEMENT:

THIS PROPERTY LIES WITHIN ZONE "X-UNSHADED"; AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN PER THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 48199C0530F WHICH BEARS AN EFFECTIVE DATE OCTOBER 6, 2010.

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STATE OF TEXAS
JUSTIN A. SCHRADER
103758
LICENSED
PROFESSIONAL ENGINEER
APR 30 2026

DATE	REVISION
04/30/2026	ISSUE FOR PERMIT AND BID

CONSTRUCTION PLANS FOR
NECHES FEDERAL CREDIT UNION - LUMBERTON BRANCH BUILDING ADDITION
(PRIVATE ON-SITE)
PAVING & DRAINAGE FACILITIES

299 COUNTRY LANE DRIVE,
LUMBERTON, TEXAS 77657

DEMOLITION PLAN

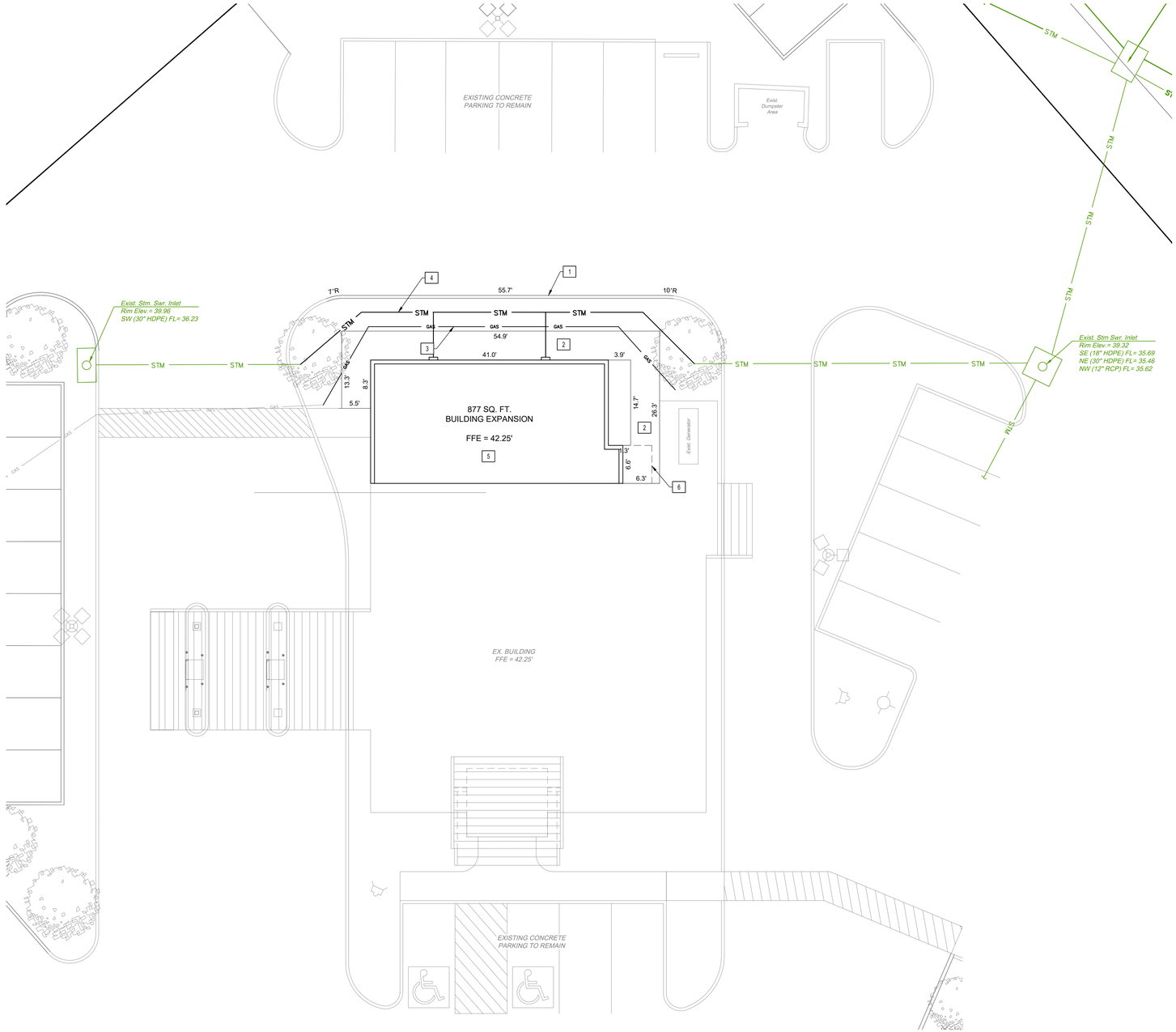
PRO-E PROJECT NO.: 1018-0015

SUBMITTED:
SCALE: 1" = 10'
DATE: APRIL, 2026
SURVEYED BY:

DESIGNED BY: JAS
DRAWN BY: KHL/PB
SHEET NO. C3 OF C10
CITY DWG NO:

PRIVATE PLANS - NECHES FEDERAL CREDIT UNION - LUMBERTON BRANCH BUILDING ADDITION; PROJECT NUMBER - 1018-0015

Date\Time = Thu, 30 Apr, 2026 — 8:32am User Name = kendr
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PARKING SPACES PROVIDED
0 PROPOSED PARKING SPACES PROVIDED 40 EXISTING PARKING SPACES PROVIDED 2 EXISTING ADA PARKING SPACES PROVIDED

IMPERVIOUS COVER ANALYSIS		
TOTAL SITE ACREAGE = 57,375 S.F.		
IMPROVEMENT TYPE	AREA OF EXISTING IMPERVIOUS COVER	AREA OF FINAL IMPERVIOUS COVER
BUILDING	3,581 S.F.	4,458 S.F. (PROP. +877 S.F.)
PARKING LOT & DRIVE AISLES	37,587 S.F.	36,555 S.F. (PROP. -1,032 S.F.)
SIDEWALK	3,293 S.F.	3,725 S.F (PROP. +432 S.F.)
DETENTION POND/SWALE	0 S.F.	0 S.F.
TOTAL AREA	44,461 S.F.	44,738 S.F.
TOTAL FINAL IMPERVIOUS COVER		44,738 S.F.
PERCENTAGE OF IMPERVIOUS COVER	(44,598 / 57,375) x 100 =	77.97%

GENERAL NOTES
1. DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED. 2. ALL RADII 2' UNLESS OTHERWISE NOTED. 3. SITE LIGHTING IS BY OTHERS. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND DETAILS PRIOR TO PLACING PAVEMENT. 4. REFER TO ARCHITECTURAL PLANS FOR SITE LIGHTING POLES AND FIXTURES AND ELECTRICAL PLAN PRIOR TO PLACING PAVEMENT. 5. REFER TO ARCHITECTURAL PLANS FOR ALL EXTERIOR STAIR DETAILS. 6. REFER TO ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS. 7. SIDEWALKS TO HAVE A 5% MAXIMUM RUNNING SLOPE AND A 2% MAXIMUM CROSS SLOPE IN ACCORDANCE WITH ADA REQUIREMENTS. 8. FIELD VERIFY ADA GRADES PRIOR TO PLACING PAVEMENT. CONTRACTOR SHALL CONSTRUCT ALL ACCESSIBLE ROUTES IN ACCORDANCE WITH ADA STANDARDS AND TAS. 9. CONTRACTOR SHALL BUDGET FOR ACCESSIBLE STALL STRIPING, FIRE LANE STRIPING, DIRECTIONAL ARROWS, ETC. 10. 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.

KEYED NOTES	
1	PROPOSED 6" CURB.
2	PROPOSED 5' WIDE SIDEWALK.
3	EXISTING GAS LINE TO BE REROUTED TO AVOID PROPOSED BUILDING ADDITION. CONTRACTOR TO COORDINATE WITH PROPERTY OWNER AND LOCAL GAS UTILITY PROVIDER FOR RELOCATION REQUIREMENTS AND APPROVALS.
4	EXISTING 30" STORM PIPE TO BE REROUTED TO AVOID PROPOSED BUILDING ADDITION. SEE SHEET C6 FOR FLOW LINE INFORMATION.
5	PROPOSED 877 SQ. FT. BUILDING ADDITION. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS AND DETAILS.
6	PROPOSED BUILDING CANOPY. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS AND DETAILS.

TOPOGRAPHIC LEGEND	
	POWER POLE
	GUY ANCHOR
	SANITARY SEWER MANHOLE
	CLEANOUT
	WATER VALVE
	WATER METER
	ROAD SIGN
	LIGHT POLE
	FIRE HYDRANT
	YIELD SIGN
	STORM SEWER MANHOLE
	AT&T TELEPHONE PEDESTAL
	TELEPHONE PEDESTAL
	TREE

GRAPHIC SCALE
10 0 5 10 20
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STATE OF TEXAS
JUSTIN A. SCHRADER
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LICENSED PROFESSIONAL ENGINEER
APR 30 2026

DATE	REVISION
04/30/2026	ISSUE FOR PERMIT AND BID

CONSTRUCTION PLANS FOR
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- LUMBERTON BRANCH
BUILDING ADDITION
(PRIVATE ON-SITE)
PAVING & DRAINAGE FACILITIES

299 COUNTRY LANE DRIVE,
LUMBERTON, TEXAS 77657

OVERALL SITE PLAN

PRO-E PROJECT NO.: 1018-0015

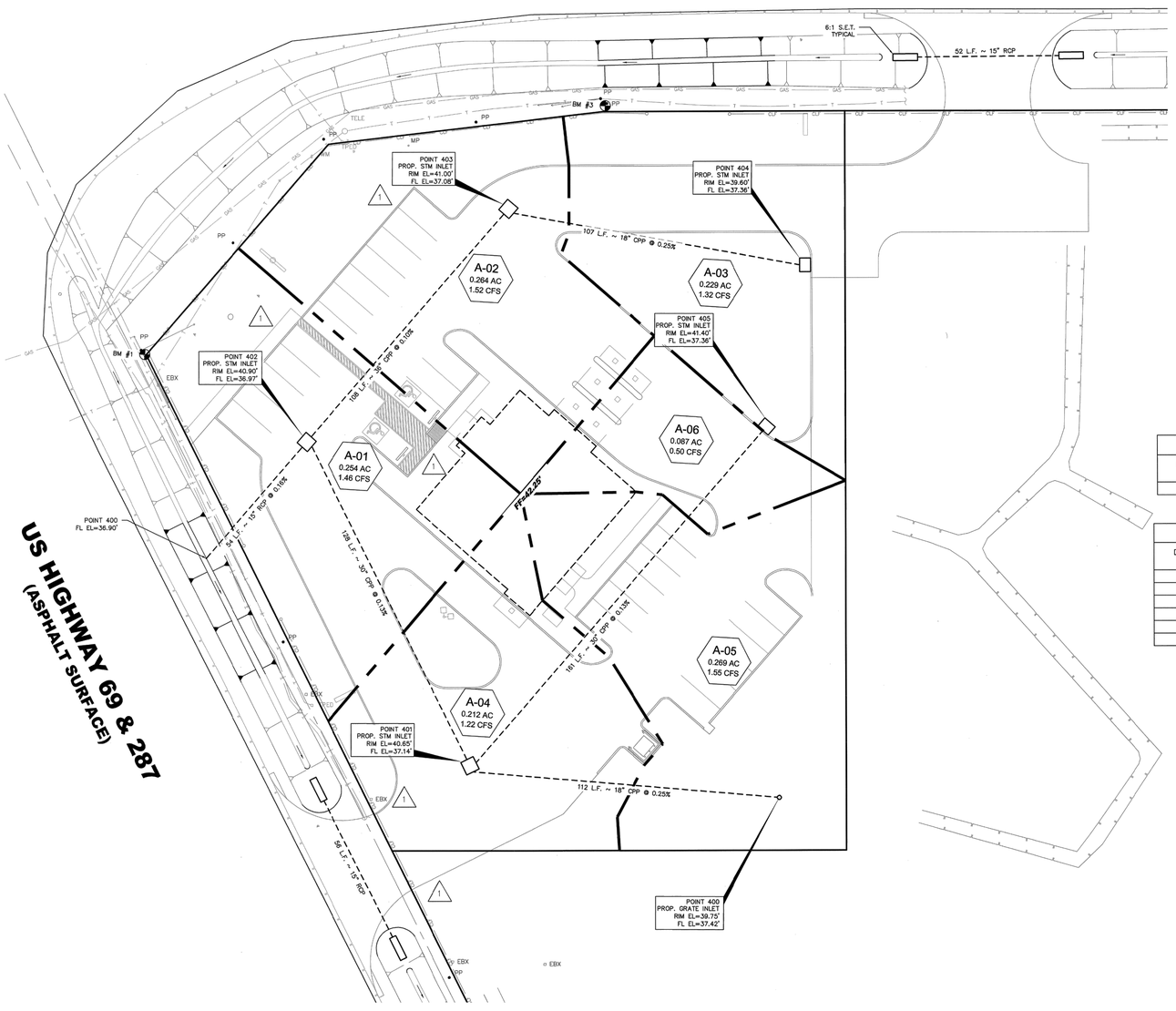
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SCALE: 1" = 10'
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SHEET NO. C4 OF C10
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PRIVATE PLANS - NECHES FEDERAL CREDIT UNION - LUMBERTON BRANCH BUILDING ADDITION; PROJECT NUMBER : 1018-0015

Date\Time : Thu, 30 Apr 2026 - 8:33am User Name : kendr
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FM 421 (AKA COUNTRY LANE DRIVE)
(ASPHALT SURFACE)



BENCHMARK POINT TABLE

BM #	Northing	Easting	Elevation	Row Description
1	10105099.42	4229633.23	–	TXDOT MON
2	10105231.80	4230289.38	–	1/2" IRON ROD
3	–	–	39.90	RR SPIKE IN PP

N

0 20 40

STORM SEWER POINT INFORMATION

Point #	Northing	Easting	Description	Rim Elevation
400	10104952.42	4229876.41	GRATE INLET	39.75'
401	10104958.70	4229762.23	STORM INLET	40.65'
402	10105071.27	4229694.50	STORM INLET	40.90'
403	10105161.31	4229763.36	STORM INLET	41.00'
404	10105147.97	4229873.71	CURB INLET	39.60'
405	10105087.84	4229863.07	CURB INLET	41.50'

PRE-DEVELOPMENT RUNOFF CALCULATIONS

Drainage Area	Area (acres)	5 Year Storm e	b	d	Distance (ft)	tc (min)	I (in/hr)	Cw	Q (cfs)
DA-1	1.32	0.733	65	7.5	230	18.75	5.93	0.30	2.35

POST-DEVELOPMENT RUNOFF CALCULATIONS

Drainage Area	Area (acres)	5 Year Storm e	b	d	Distance (ft)	tc (min)	I (in/hr)	Cw	Q (cfs)
DA-1	0.254	0.733	65	7.5	81	10.00	7.98	0.72	1.46
DA-2	0.264	0.733	65	7.5	104	10.00	7.98	0.72	1.52
DA-3	0.229	0.733	65	7.5	101	10.00	7.98	0.72	1.32
DA-4	0.212	0.733	65	7.5	146	10.00	7.98	0.72	1.22
DA-5	0.269	0.733	65	7.5	94	10.00	7.98	0.72	1.54
DA-6	0.087	0.733	65	7.5	92	10.00	7.98	0.72	0.50

STATE OF TEXAS
MARC A. OCHOA
98426
LICENSED
PROFESSIONAL ENGINEER
5/12/11

ARCENEAUX & GATES
CONSULTING ENGINEERS, INC.
PORT ARTHUR, TEXAS

ARCENEAUX & GATES
Consulting Engineers, Inc.
Engineers Surveyors Planners

DRAWING TITLE: DRAINAGE AREA LAYOUT
DRAWN BY: A.R.C.
CHECKED BY: M.A.O.
APPROVED BY: J.M.W.
SHEET NO.: C7

SLI DESIGN, INC.
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www.sligroup.com

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NECHES Federal Credit Union

LUMBERTON PAD SITE
U.S. Highway 69 and Country Lane
Lumberton, Texas 77657

PROJECT NUMBER SLI-180

ISSUE	DATE
ISSUED FOR CLIENT APPROVAL	1 Apr 11
ISSUED FOR BIDDING	14 Apr 11
ISSUED FOR PERMIT	14 Apr 11
ISSUED FOR CONSTRUCTION	12 May 11
APPROVED BY CLIENT	

REVISIONS

MARK	DESCRIPTION	DATE
1	SITE PLAN REVISION	05/2011

The information, ideas, designs, details, layouts, techniques, features, arrangements, plans, sequences, dimensions, allowances, tolerances, conceptions, specifications, intentions, technology or embodiments, as illustrated, arranged, displayed, noted, recorded, indicated, represented, disclosed, evidenced, detailed or otherwise reduced to tangible form hereon, either expressly, inherently or by implication, are the confidential and proprietary information of SLI Design, Inc., and shall not be used for any purpose other than the specific project or undertaking identified on the drawing title block or legend for which they are and have been prepared by SLI Design, Inc. Any other reproduction, disclosure or use of any portion of the confidential and proprietary information of SLI Design, Inc., shall be a breach of the obligation of confidence created by the acceptance of this drawing from SLI Design, Inc. for a specific project or Contract. Any copying, duplicating, reproducing, selling, utilization, publication, modification, revision or change of this drawing, is expressly prohibited unless done with the prior written consent and approval of SLI Design, Inc., and shall give due undertaken without receipt of such prior written approval. This drawing is loaned by SLI Design, Inc., for the limited purpose of complying with a specific Contract. The drawing remains the property of SLI Design, Inc., and shall be returned upon request or completion of the contract, unless specifically authorized by Contract, under which it was loaned.

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PAVING & DRAINAGE FACILITIES

299 COUNTRY LANE DRIVE,
LUMBERTON, TEXAS 77657

EXISTING DRAINAGE AREA MAP
(FOR REFERENCE ONLY)

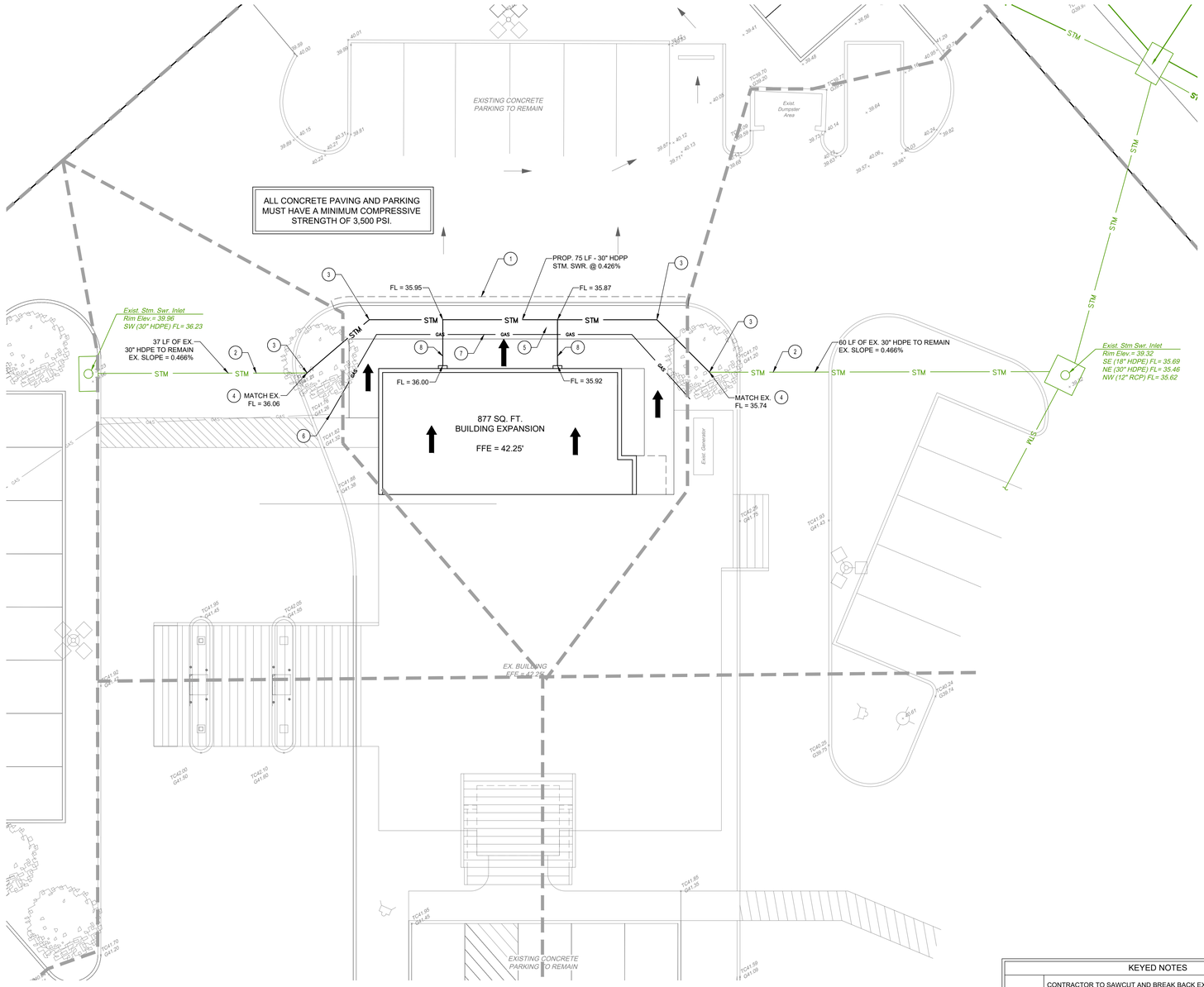
PRO-E PROJECT NO.: 1018-0015

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SURVEYED BY:

DESIGNED BY: JAS
DRAWN BY: KHL/PB
SHEET NO. C5 OF C10
CITY DWG NO:

PRIVATE PLANS - NECHES FEDERAL CREDIT UNION - LUMBERTON BRANCH BUILDING ADDITION; PROJECT NUMBER : 1018-0015

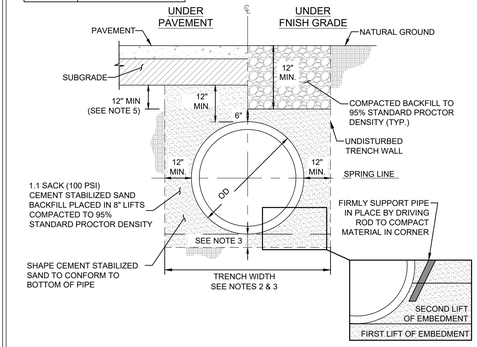
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TOPOGRAPHIC LEGEND	
	POWER POLE
	GUY ANCHOR
	SANITARY SEWER MANHOLE
	CLEANOUT
	WATER VALVE
	WATER METER
	ROAD SIGN
	LIGHT POLE
	FIRE HYDRANT
	YIELD SIGN
	STORM SEWER MANHOLE
A	AT&T TELEPHONE PEDESTAL
T	TELEPHONE PEDESTAL
	TREE

KEYED NOTES	
1	CONTRACTOR TO SAWCUT AND BREAK BACK EXISTING PAVEMENT. EXPOSE REBAR A MINIMUM OF 12" AS REQUIRED FOR INSTALLATION OF 30" PIPE. RESTORE PAVEMENT AND TIE REBAR AS REQUIRED TO CONNECT PROPOSED PAVEMENT TO EXISTING PAVEMENT. RESTORED PAVEMENT TO MATCH EXISTING THICKNESS AND REINFORCEMENT.
2	CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF EXISTING 30" STORM PIPE PRIOR TO CONSTRUCTION.
3	30" HDPP STORM PIPE DEFLECTION SHOWN USING 45° BENDS. CONTRACTOR TO PROVIDE MANUFACTURED HDPP FITTINGS. ALL PIPE JOINTS AND FITTINGS SHALL BE GASKETED AND WATERTIGHT IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS. PROVIDE BEDDING, SIDE SUPPORT, AND COMPACTION AT ALL BENDS IN ACCORDANCE WITH CITY OF LUMBERTON SPECIFICATIONS AND MANUFACTURER RECOMMENDATIONS.
4	CONTRACTOR SHALL VERIFY FIT, ALIGNMENT, AND CLEARANCES PRIOR TO INSTALLATION.
5	CONTRACTOR TO MAINTAIN MINIMUM 12" VERTICAL AND 24" HORIZONTAL CLEARANCE FROM EXISTING GAS LINE UNLESS OTHERWISE APPROVED BY THE GAS UTILITY.
6	CONTRACTOR TO REROUTE EXISTING GAS LINE.
7	CONTRACTOR SHALL COORDINATE RELOCATION OF EXISTING GAS LINE WITH PROPERTY OWNER AND GAS UTILITY PROVIDER. RELOCATION SHALL BE PERFORMED IN ACCORDANCE WITH GAS UTILITY PROVIDER AND CITY OF LUMBERTON REQUIREMENTS.
8	PROPOSED 8 LF – 8" HDPP @ 0.55%. CONTRACTOR SHALL CONNECT ALL DOWNSPOUTS WITH 6" PVC PIPE TO THESE 8" UNDERGROUND STORM SEWER PIPES. REFER TO ARCHITECTURAL PLANS FOR DOWNSPOUT SIZE AND LOCATION.

"X"	STM.SWR. PIPE SIZE
6"	> 24"
10"	24" - 36"
12"	> 42"



GENERAL NOTES:

1. WHERE SOIL CONDITIONS REQUIRE, THE ENGINEER MAY ORDER USE OF GRANULAR MATERIAL IN LIEU OF CEMENT STABILIZED SAND BEDDING.
2. MIN TRENCH WIDTH SHALL BE PIPE OD PLUS 18" MIN.
3. MAX TRENCH WIDTH SHALL NOT BE GREATER THAN MIN TRENCH WIDTH PLUS 24 INCHES, UNLESS OTHERWISE NOTED.
4. SELECT BACKFILL FOR RIGID PAVEMENT; FLEXIBLE BASE MATERIAL FOR ASPHALT PAVEMENT.
5. THE METHOD OF INSTALLING CONCRETE PIPE STORM SEWERS SHOWN HEREON TO BE USED ONLY WHERE SOIL CONDITIONS ARE SATISFACTORY. FOR ALL OTHER SOIL CONDITIONS CONTACT GEOTECHNICAL ENGINEER.
6. BACKFILL MATERIAL OUTSIDE OF PAVEMENT AREA SHALL BE SUITABLE ON-SITE MATERIAL. IF ON-SITE MATERIAL IS UNACCEPTABLE, MIXING 1-FOOT OF EXCAVATION MATERIALS FROM THE SITE TO OBTAIN ACCEPTABLE SOIL CLASSIFICATION FROM TRENCH BACKFILL IS ALLOWED WITH APPROVAL ENGINEER.

STORM SEWER BEDDING AND BACKFILL

N.T.S.

LEGEND	
	PROPERTY LINE
	DRAINAGE AREA BOUNDARY
	EXISTING DRAINAGE PATTERN TO REMAIN
	PROPOSED DRAINAGE PATTERN

STORM SEWER AND GRADING CONSTRUCTION NOTES

1. ALL PROPOSED STORM SEWERS 12 INCHES AND LARGER SHALL BE CORRUGATED HIGH DENSITY POLYPROPYLENE PIPE (HDPP) WITH SMOOTH INTERIOR WITH GASKET JOINTS FOR SITE DRAINAGE.
2. ALL STORM SEWERS TO RECEIVE BEDDING AND BACKFILL IN ACCORDANCE WITH THE DETAILS ABOVE.
3. CONTRACTOR TO ALLOW A MINIMUM OF 1-FOOT VERTICAL CLEARANCE BETWEEN STORM SEWER AND OTHER EXISTING OR PROPOSED UTILITIES.
4. UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ENGINEER OF ANY CONFLICT OR DISCREPANCIES.
5. CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ANY EXISTING ITEMS ON SITE. ANY DAMAGE SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE.
6. CONTRACTOR SHALL ENSURE THERE IS POSITIVE DRAINAGE FROM THE PROPOSED PAVEMENT IMPROVEMENTS, AND SHALL NOTIFY ENGINEER IF ANY GRADING DISCREPANCIES ARE FOUND IN THE EXISTING AND PROPOSED GRADES PRIOR TO PLACEMENT OF PAVEMENT AND UTILITIES.
7. ALL SIDEWALKS AND ACCESSIBLE ROUTES, INCLUDING DRIVEWAY CROSSWALKS, SHALL CONFORM TO ALL APPLICABLE AMERICANS WITH DISABILITIES ACT STANDARDS AND THE TEXAS ACCESSIBILITY STANDARDS. IF ANY DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO POURING ANY PAVEMENT.
8. ALL STORM SEWER CONNECTIONS SHALL BE WATERTIGHT. CONTRACTOR TO PROVIDE MANUFACTURER-APPROVED COUPLINGS OR ADAPTERS FOR CONNECTION TO EXISTING HDPE PIPE.

GRAPHIC SCALE

10 0 5 10 20

(IN FEET)
1 inch = 10 ft.

TEMPORARY BENCHMARK "A": ELEV: 38.51'

BEING A RAILROAD SPIKE EMBEDDED IN A POWER POLE. IT IS LOCATED ±110' FROM THE NORTHWESTERN CORNER OF THE PROPERTY. IT IS ALSO LOCATED ±90' FROM THE NORTHEASTERN CORNER OF THE PROPERTY.

TEMPORARY BENCHMARK "B": ELEV: 39.74'

BEING THE SOUTHWESTERN CORNER OF A STORM SEWER MANHOLE. IT IS LOCATED ±60' FROM THE SOUTHWESTERN CORNER OF THE PROPERTY. IT IS ALSO LOCATED ±135' FROM THE SOUTHEASTERN CORNER OF THE PROPERTY.

FLOOD STATEMENT:

THIS PROPERTY LIES WITHIN ZONE "X-UNSHADED"; AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN PER THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 48199C0530F WHICH BEARS AN EFFECTIVE DATE OCTOBER 6, 2010.

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STATE OF TEXAS
JUSTIN A. SCHRADER
103758
LICENSED
PROFESSIONAL ENGINEER
APR 30 2026

DATE	REVISION
04/30/2026	ISSUE FOR PERMIT AND BID

CONSTRUCTION PLANS FOR
NECHES FEDERAL CREDIT UNION
- LUMBERTON BRANCH
BUILDING ADDITION
(PRIVATE ON-SITE)
PAVING & DRAINAGE FACILITIES

299 COUNTRY LANE DRIVE,
LUMBERTON, TEXAS 77657

DRAINAGE PLAN

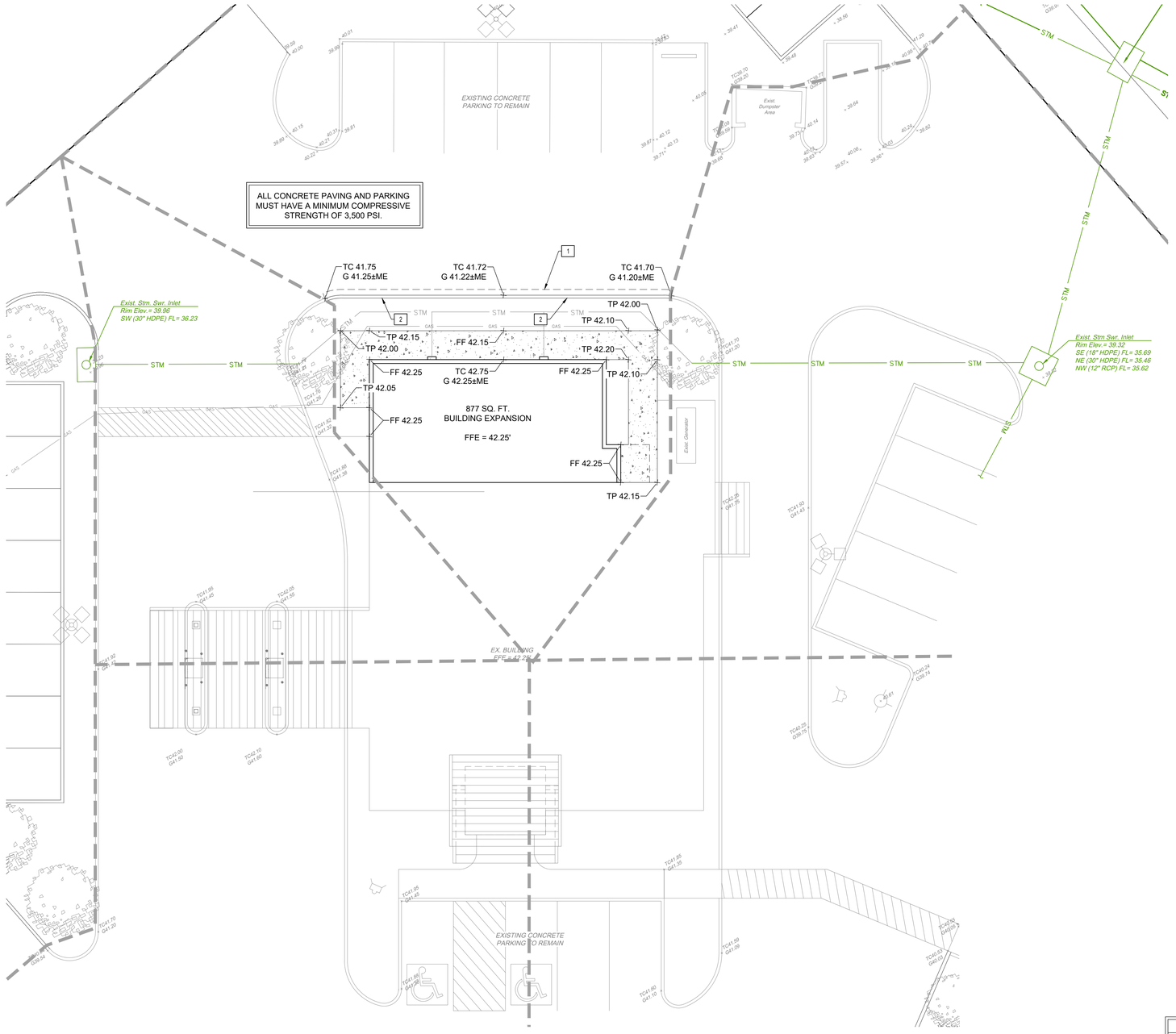
PRO-E PROJECT NO.: 1018-0015

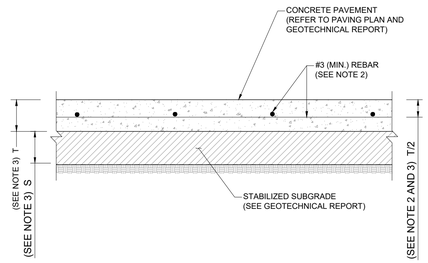
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SCALE: 1" = 10'
DATE: APRIL, 2026
SURVEYED BY:

DESIGNED BY: JAS
DRAWN BY: KHL/PB
SHEET NO. C6 OF C10
CITY DWG NO:

PRIVATE PLANS - NECHES FEDERAL CREDIT UNION - LUMBERTON BRANCH BUILDING ADDITION; PROJECT NUMBER: : 1018-0015

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GENERAL NOTES:

1. PAVING THICKNESS (d) TO BE 5", 6", 7" OR 8" AS STATED ON THE PAVING PLAN.
2. REFER TO THE GEOTECHNICAL REPORT FOR REBAR (TRAVERSE AND LONGITUDINAL) SIZING AND SPACING REQUIREMENTS BASED ON PAVEMENT THICKNESS. PROVIDE A 30" MIN LAP LENGTH TO BE SPLICE TIED. GRADE 60 DEFORMED REINFORCEMENT BARS IN ACCORDANCE TO ASTM A615.
3. REFER TO GEOTECHNICAL REPORT FOR CONCRETE PAVEMENT THICKNESS (d) AND SUBGRADE THICKNESS (t) AND MATERIAL REQUIREMENTS.
4. REFERENCE FEATURE IN PAVEMENT BLOCKOUT DETAIL FOR REINFORCEMENTS AROUND INLETS AND MANHOLES.
5. PROVIDE STEEL TIE ON EVERY REBAR CROSSING, EXCLUDE TYING OF DOWEL BARS
6. CONTRACTOR SHALL PROVIDE REDWOOD PAVING EXCEPT JOINTS AND SAWCUTS AS PER PAVING AND/OR JOINING PLANS.
7. LEVEL SUBGRADE SURFACE TO FINAL GRADE. DO NOT INSTALL SAND CUSHION. DO NOT INSTALL LEVELING COURSE.
8. SUBGRADE SHALL EXTEND 1' PAST EDGE OF CONCRETE.

CONCRETE PAVEMENT CROSS-SECTION

N.T.S.

STORM SEWER AND GRADING CONSTRUCTION NOTES

1. ALL PROPOSED STORM SEWERS 12 INCHES AND LARGER SHALL BE CORRUGATED HIGH DENSITY POLYETHYLENE PIPE (HDPE) WITH SMOOTH INTERIOR WITH GASKET JOINTS FOR SITE DRAINAGE.
2. ALL STORM SEWERS TO RECEIVE BEDDING AND BACKFILL IN ACCORDANCE WITH THE DETAILS CONTAINED ON SHEET C6.
3. CONTRACTOR TO ALLOW A MINIMUM OF 1-FOOT VERTICAL CLEARANCE BETWEEN STORM SEWER AND OTHER EXISTING OR PROPOSED UTILITIES.
4. UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ENGINEER OF ANY CONFLICT OR DISCREPANCIES.
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7. ALL SIDEWALKS AND ACCESSIBLE ROUTES, INCLUDING DRIVEWAY CROSSWALKS, SHALL CONFORM TO ALL APPLICABLE AMERICANS WITH DISABILITIES ACT STANDARDS AND THE TEXAS ACCESSIBILITY STANDARDS. IF ANY DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO POURING ANY PAVEMENT.
8. ALL STORM SEWER CONNECTIONS SHALL BE WATERTIGHT. CONTRACTOR TO PROVIDE MANUFACTURER-APPROVED COUPLINGS OR ADAPTERS FOR CONNECTION TO EXISTING HDPE PIPE.

KEYED NOTES

1	CONTRACTOR TO SAWCUT AND BREAK BACK EXISTING PAVEMENT. EXPOSE REBAR A MINIMUM OF 12" AS REQUIRED FOR INSTALLATION OF 30" PIPE. RESTORE PAVEMENT AND TIE REBAR AS REQUIRED TO CONNECT PROPOSED PAVEMENT TO EXISTING PAVEMENT. RESTORED PAVEMENT TO MATCH EXISTING THICKNESS AND REINFORCEMENT.
2	PROPOSED 6" CURB.
	PROPOSED 5' WIDE SIDEWALK.

TOPOGRAPHIC LEGEND

	POWER POLE
	GUY ANCHOR
	SANITARY SEWER MANHOLE
C	CLEANOUT
	WATER VALVE
	WATER METER
	ROAD SIGN
	LIGHT POLE
	FIRE HYDRANT
	YIELD SIGN
	STORM SEWER MANHOLE
A	AT&T TELEPHONE PEDESTAL
T	TELEPHONE PEDESTAL
	TREE

GRAPHIC SCALE
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1 inch = 10 ft.

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APR 30 2026

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CONSTRUCTION PLANS FOR
NECHES FEDERAL CREDIT UNION
- LUMBERTON BRANCH
BUILDING ADDITION
(PRIVATE ON-SITE)
PAVING & DRAINAGE FACILITIES

299 COUNTRY LANE DRIVE,
LUMBERTON, TEXAS 77657

GRADING & PAVING PLAN

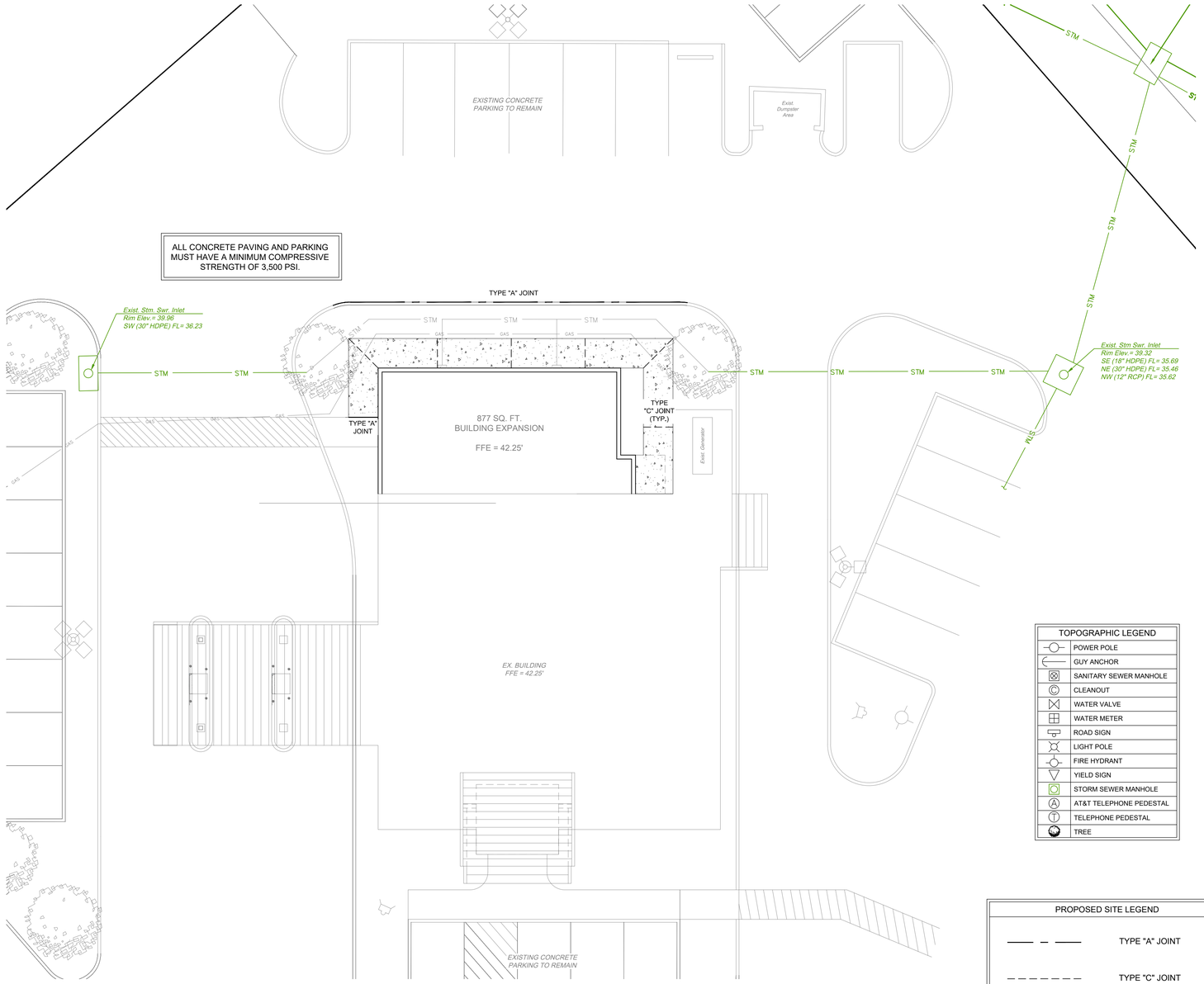
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DRAWN BY: KHL/PB
SHEET NO. C7 OF C10
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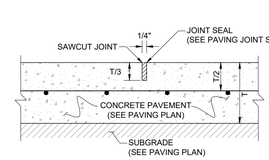
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TOPOGRAPHIC LEGEND	
	POWER POLE
	GUY ANCHOR
S	SANITARY SEWER MANHOLE
C	CLEANOUT
	WATER VALVE
	WATER METER
	ROAD SIGN
	LIGHT POLE
	FIRE HYDRANT
	YIELD SIGN
	STORM SEWER MANHOLE
A	AT&T TELEPHONE PEDESTAL
T	TELEPHONE PEDESTAL
	TREE

PROPOSED SITE LEGEND	
—— – ——	TYPE "A" JOINT
– – – – – –	TYPE "C" JOINT

GENERAL NOTES
1. DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
2. ALL RADII 3' UNLESS OTHERWISE NOTED.
3. SIDEWALKS TO HAVE A 5% MAXIMUM RUNNING SLOPE AND A 2% MAXIMUM CROSS SLOPE IN ACCORDANCE WITH ADA REQUIREMENTS.
4. FIELD VERIFY ADA GRADES PRIOR TO PLACING PAVEMENT. CONTRACTOR SHALL CONSTRUCT ALL ACCESSIBLE ROUTES IN ACCORDANCE WITH ADA STANDARDS AND TAS.
5. CONTRACTOR SHALL BUDGET FOR ACCESSIBLE STALL STRIPING, FIRE LANE STRIPING, DIRECTIONAL ARROWS, ETC.
6. 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.
7. RIGHT-OF-WAY WILL BE RESTORED TO EQUAL OR BETTER CONDITION WHEN CONSTRUCTION IS COMPLETE.
8. ROAD CROSSINGS MUST BE BORED. BORE PITS SHALL BE KEPT AT LEAST 3 FEET FROM THE ROAD.

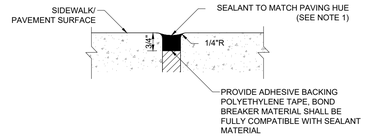


GENERAL NOTES:

1. REFER TO PAVING PLAN FOR SAWCUT JOINT SPACING.
2. INSTALLATION OF SAWCUT JOINT TO BE PERFORMED WITHIN 12 HOURS OF CONCRETE POUR.
3. TOOLED JOINTS ARE NOT ALLOWED, ONLY SAWCUT JOINTS.
4. CONCRETE SHALL CURE LONG ENOUGH BEFORE SAW CUTTING TO PREVENT SPALLING OF JOINT WHEN CUTTING.
5. REFER TO PAVING PLAN AND GEOTECHNICAL REPORT FOR PAVEMENT THICKNESS (T) AND REBAR DEPTH TO AVOID SAW CUTTING REINFORCEMENT BARS.

PAVING SAWCUT JOINT

N.T.S.

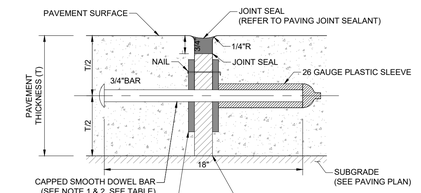


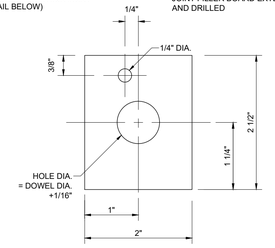
GENERAL NOTES:

1. UTILIZE THC 900/901 POLYURETHANE SEALANT MANUFACTURED BY TREMCO, CLEVELAND OHIO IN ACCORDANCE TO ASTM C920, TYPE M (OR APPROVED EQUAL).
2. JOINT SEALANT TO BE APPLIED IN ACCORDANCE WITH ASTM 03405.
3. VERIFY WITH OWNER AND ENGINEER FOR ANY ADDITIONAL REQUIREMENTS.
4. PROVIDE A CLEAN AND PROPER INSTALLATION OF SEALANT PER MANUFACTURES'S RECOMMENDATIONS.

PAVING JOINT SEALANT

N.T.S.





JOINT PLATE DETAIL

TABLE ONE

PAVEMENT THICKNESS (IN.)	DOWEL SIZES AND SPACINGS		
	DIAMETER (IN.)	LENGTH (IN.)	SPACING (IN.)
5	3/4	18	12
6	3/4	18	12
7	1	18	12
8	1	18	12

GENERAL NOTES:

1. DOWEL SIZE DEPENDANT UPON PAVING THICKNESS. REFER TO GEOTECHNICAL REPORT FOR SPECIFICATIONS.
2. REFER TO GEOTECHNICAL REPORT FOR DOWEL AND EXPANSION JOINT SPACING.
3. REFER TO PAVING PLAN FOR PAVING THICKNESS (T).

PAVING DOWEL AT EXPANSION JOINT

N.T.S.



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CONTROL JOINT PLAN

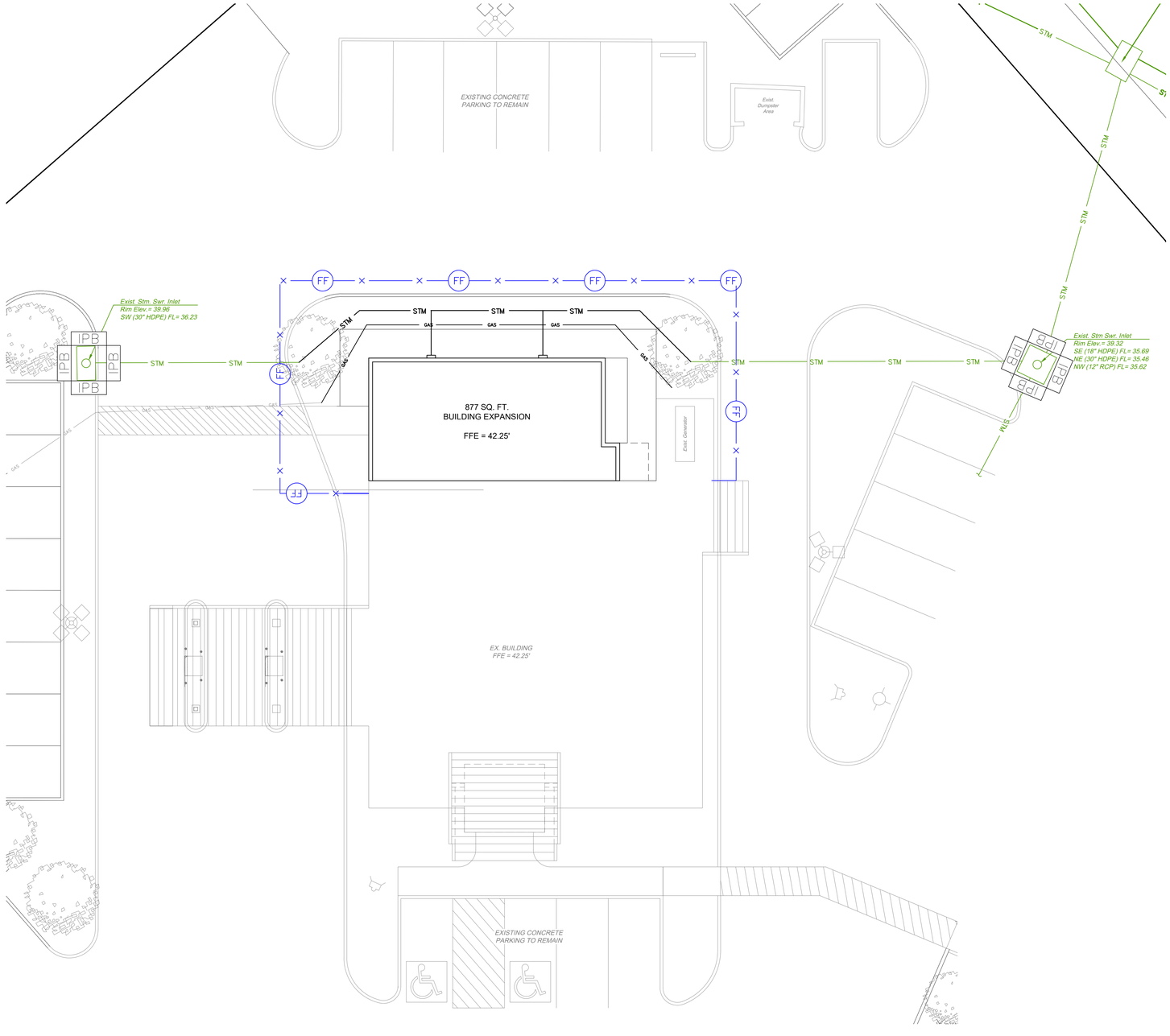
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TOPOGRAPHIC LEGEND	
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S	SANITARY SEWER MANHOLE
C	CLEANOUT
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	FIRE HYDRANT
	YIELD SIGN
	STORM SEWER MANHOLE
A	AT&T TELEPHONE PEDESTAL
T	TELEPHONE PEDESTAL
	TREE

LEGEND	
SYMBOL	DESCRIPTION
IPB	STAGE I AND STAGE II INLET PROTECTION BARRIER
SC	STABILIZED CONSTRUCTION ACCESS
CTW	CONCRETE TRUCK WASHOUT AREA
FF	FILTER FABRIC FENCE

NOTE: ALL GRASS AREAS TO BE SEEDED AND/OR SODDED. GRASS AREA TO BE MAINTAINED UNTIL ROOTS ARE ESTABLISHED.

GRAPHIC SCALE
10 0 5 10 20
(IN FEET)
1 inch = 10 ft.

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PAVING & DRAINAGE FACILITIES

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STORM WATER POLLUTION PREVENTION MAP

PRO-E PROJECT NO.: 1018-0015

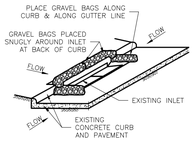
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SCALE: 1" = 10'
DATE: APRIL, 2026
SURVEYED BY:

DESIGNED BY: JAS
DRAWN BY: KHL/PB
SHEET NO. C9 OF C10

CITY DWG NO:

PRIVATE PLANS - NECHES FEDERAL CREDIT UNION - LUMBERTON BRANCH BUILDING ADDITION; PROJECT NUMBER : 1018-0015

Date\Time : Thu, 30 Apr, 2026 – 8:33am User Name : kendr
Path\Name : C:\Users\kendr\OneDrive - proe.consulting (1)\Projects\1018 - SU Group\0015 - Neches FCU_Lumberton\2 CAD\Private Phase 3\C9 STORM WATER POLLUTION PREVENTION MAP.dwg

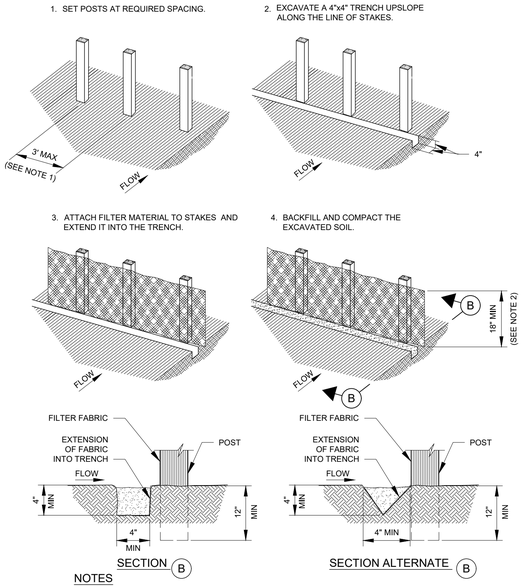


GENERAL NOTES:

1. REMOVE SEDIMENT DEPOSIT WHEN THE SEDIMENT HAS ACCUMULATED TO ONE–THIRD THE HEIGHT OF THE BARRIER.
2. GRAVEL BAGS SHALL NOT BLOCK THROAT OF INLET UNLESS DIRECTED BY ENGINEER.

INLET PROTECTION BARRIERS FOR STAGE II INLETS

NTS



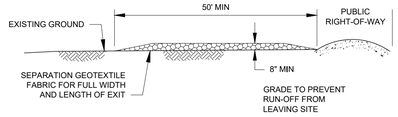
NOTES

1. 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.
2. ATTACH FILTER FABRIC TO WOODED STAKES. FILTER FABRIC FENCE SHALL HAVE A MIN HEIGHT OF 18 INCHES AND MAX HEIGHT OF 36 INCHES ABOVE NATURAL GROUND.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHOULD BE OVERLAPPED 6 INCHES AT THE POSTS AND FOLDED.
4. MINIMUM HEIGHT OF FILTER SHOULD BE 18 INCHES AND A MAXIMUM OF 36 INCHES ABOVE NATURAL GROUND.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH EACH OTHER THEY SHALL BE OVERLAPPED 6 INCHES AT THE POSTS AND FOLDED.

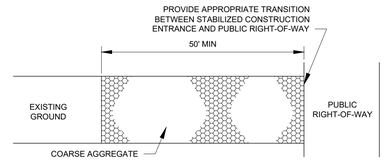
FF
SYMBOL

FILTER FABRIC FENCE

NTS



PROFILE



PLAN

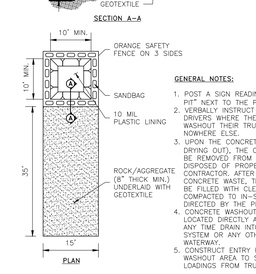
NOTES

1. LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS, BUT NOT LESS THAN 50 FEET.
2. THICKNESS SHALL BE NOT LESS THAN 8 INCHES.
3. WIDTH SHALL BE NOT LESS FULL WIDTH OF ALL POINTS OF INGRESS OR ENGRESS.
4. 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.
5. 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.
6. STABILIZED CONSTRUCTION EXIT SHALL BE MAINTAINED FREE OF SEDIMENT FOR THE DURATION OF THE PROJECT.

SC
SYMBOL

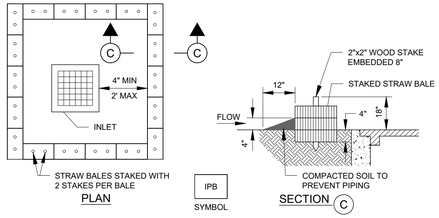
STABILIZED CONSTRUCTION EXIT

NTS



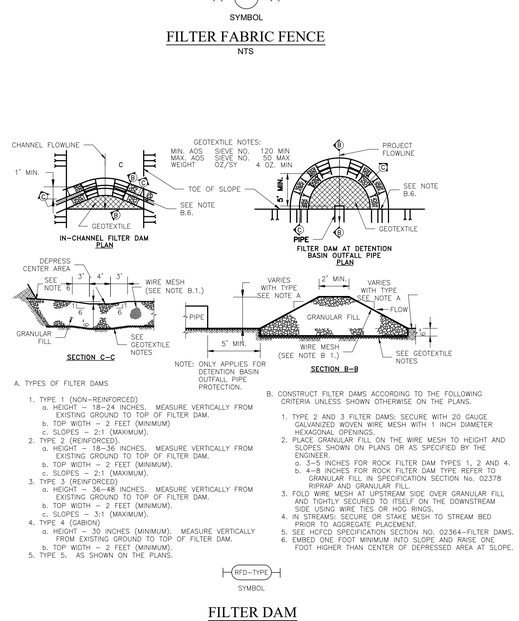
CONCRETE TRUCK WASHOUT AREA

NTS



STRAW BALE DROP INLET PROTECTION BARRIER

NTS



A. TYPES OF FILTER DAMS

1. TYPE 1 (NON–REINFORCED)
   a. HEIGHT – 18–24 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH – 2 FEET (MINIMUM)
   c. SLOPES – 2:1 (MAXIMUM).
2. TYPE 2 (REINFORCED).
   a. HEIGHT – 18–36 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH – 2 FEET (MINIMUM).
   c. SLOPES – 2:1 (MAXIMUM).
3. TYPE 3 (REINFORCED)
   a. HEIGHT – 36–48 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH – 2 FEET (MINIMUM).
   c. SLOPES – 3:1 (MAXIMUM).
4. TYPE 4 (GABION)
   a. HEIGHT – 30 INCHES (MINIMUM). MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
   b. TOP WIDTH – 2 FEET (MINIMUM).
5. TYPE 5. AS SHOWN ON THE PLANS.

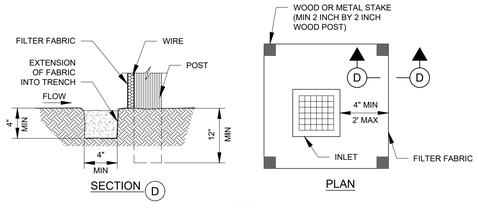
B. CONSTRUCT FILTER DAMS ACCORDING TO THE FOLLOWING CRITERIA UNLESS SHOWN OTHERWISE ON THE PLANS.

1. TYPE 2 AND 3 FILTER DAMS: SECURE WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1 INCH DIAMETER HEXAGONAL OPENINGS.
2. PLACE GRANULAR FILL ON THE WIRE MESH TO HEIGHT AND SLOPES SHOWN ON PLANS OR AS SPECIFIED BY THE ENGINEER.
   a. 3–5 INCHES FOR ROCK FILTER DAM TYPES 1, 2 AND 4.
   b. 4–8 INCHES FOR ROCK FILTER DAM TYPE REFER TO GRANULAR FILL IN SPECIFICATION SECTION No. 02378 RIPRAP AND GRANULAR FILL.
3. FOLD WIRE MESH AT UPSTREAM SIDE OVER GRANULAR FILL AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS.
4. IN STREAMS: SECURE OR STAKE MESH TO STREAM BED PRIOR TO AGGREGATE PLACEMENT.
5. SEE HCFCD SPECIFICATION SECTION NO. 02364–FILTER DAMS.
6. EMBED ONE FOOT MINIMUM INTO SLOPE AND RAISE ONE FOOT HIGHER THAN CENTER OF DEPRESSED AREA AT SLOPE.

RFD–TYPE
SYMBOL

FILTER DAM

NTS



NOTE

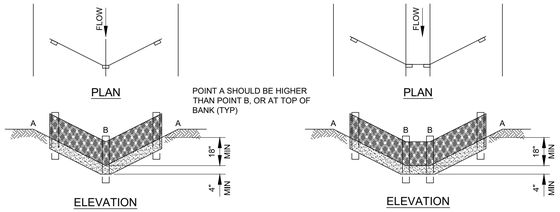
SEE CONSTRUCTION NOTES FOR REINFORCED FILTER FABRIC BARRIER

CONTRACTOR NOTES

1. CONTRACTOR IS RESPONSIBLE FOR DEVELOPING, IMPLEMENTING AND ADHERING TO THE CONTRACTOR DEVELOPED STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
2. 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.

SILT FENCE DROP INLET PROTECTION BARRIER

NTS



NTS

PRO-E CONSULTING
1334 Brittmoore Road
Suite # 2808
Houston, TX 77043
Firm License F-21665
www.proe.consulting

STATE OF TEXAS
JUSTIN A. SCHRADER
103736
LICENSED
PROFESSIONAL ENGINEER
APR 30 2026

DATE	REVISION
04/30/2026	ISSUE FOR PERMIT AND BID

CONSTRUCTION PLANS FOR
NECHES FEDERAL CREDIT UNION - LUMBERTON BRANCH BUILDING ADDITION
(PRIVATE ON-SITE)
PAVING & DRAINAGE FACILITIES

299 COUNTRY LANE DRIVE,
LUMBERTON, TEXAS 77657

STORM WATER POLLUTION PREVENTION DETAILS

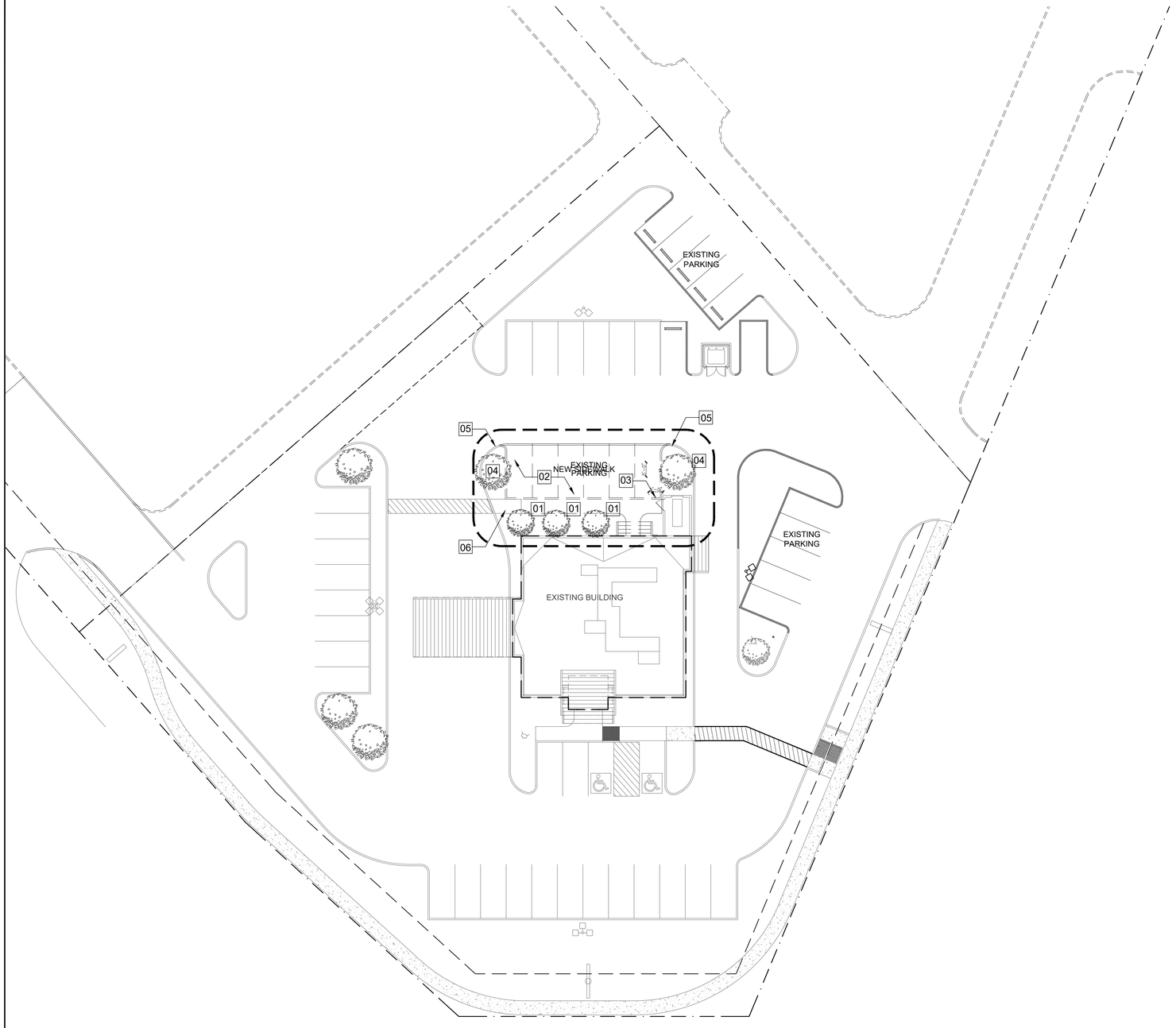
PRO-E PROJECT NO.: 1018-0015

SUBMITTED:
SCALE: N/A
DATE: APRIL, 2026
SURVEYED BY:

DESIGNED BY: JAS
DRAWN BY: KHL/PB
SHEET NO. C10 OF C10
CITY DWG NO:

PRIVATE PLANS - NECHES FEDERAL CREDIT UNION - LUMBERTON BRANCH BUILDING ADDITION; PROJECT NUMBER : 1018-0015

Date\Time = Thu, 30 Apr, 2026 – 8:33am User Name = kendr
Path\Name = C:\Users\kendr\OneDrive – proe.consulting (1)\Projects\1018 – SLI Group\0015 – Neches FCU_Lumberton\2 CAD\Private Phase 3\C10 STORM WATER POLLUTION PREVENTION DETAILS.dwg



KEY NOTES BY SYMBOL ☒:

01 RELOCATE EXISTING TREES.

02 DEMO AND PREP EXISTING GRASS AREA FOR NEW CONCRETE PAVING.

03 DEMO EXISTING CONCRETE CURB.

04 DEMO EXISTING TREE.

05 EXISTING CONCRETE CURB TO REMAIN.

06 PARTIAL OF THE EXISTING SIDEWALK TO REMAIN.

01 DEMO SITE PLAN
SCALE: 1" = 20'-0"

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Lumberton, Texas 77657

PROJECT NUMBER : 8983

	DATE
ISSUED FOR CLIENT APPROVAL	04.14.26
ISSUED FOR BIDDING	04.30.26
ISSUED FOR PERMIT	04.30.26
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE

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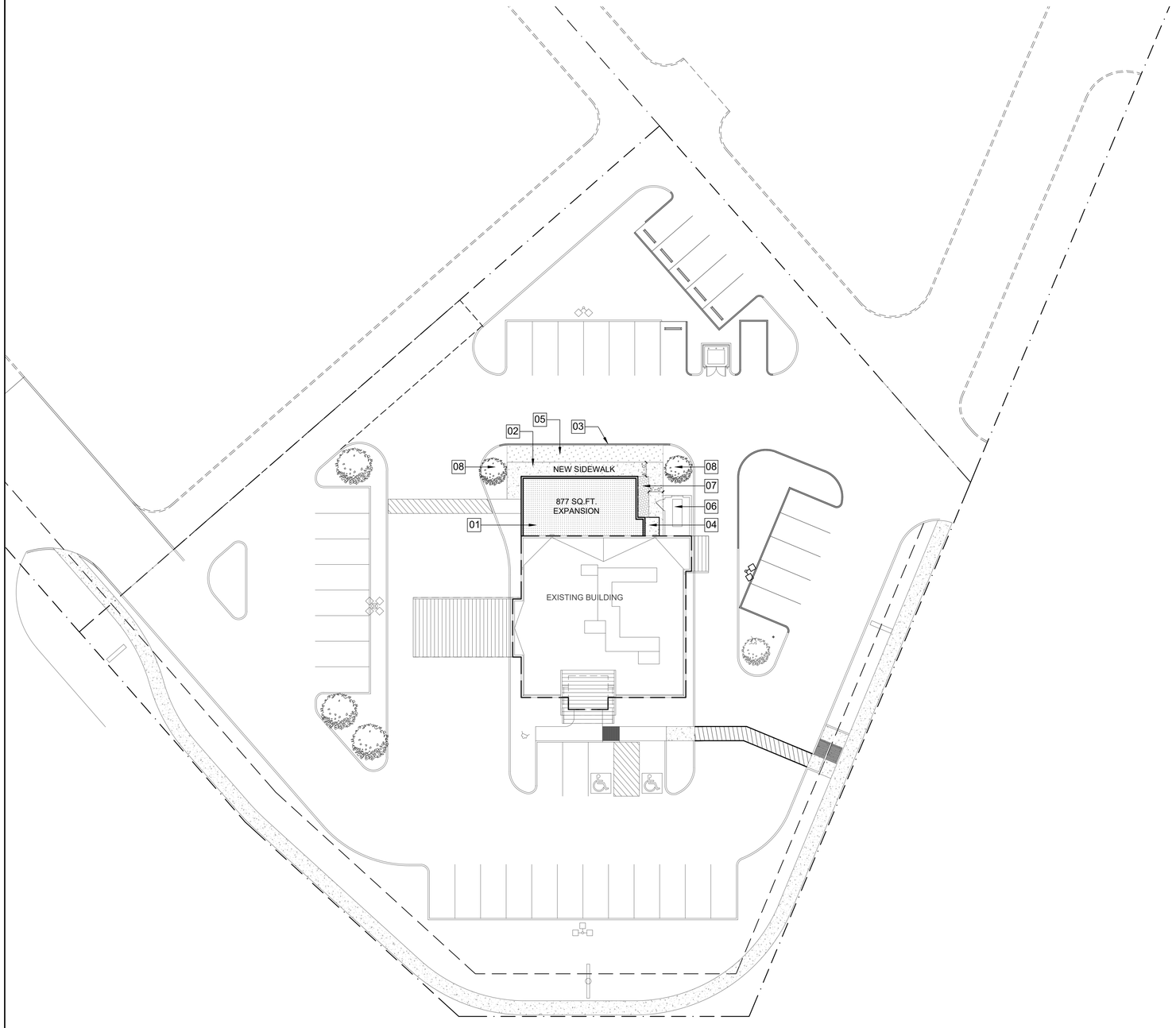
PRINT DATE Apr 30, 2026 – 9:48am

REGISTERED ARCHITECT THOMAS B. BAKER 14288 STATE OF TEXAS
04/30/26

DRAWING TITLE
DEMO SITE PLAN

DRAWN BY	RG
CHECKED BY	TL
APPROVED BY	TB

SHEET NO.
SP-1.00



01 SITE PLAN
SCALE: 1" = 20'-0"

KEY NOTES BY SYMBOL ☒:

- 01 NEW BUILDING ADDITION.
- 02 NEW SIDEWALK.
- 03 NEW CONCRETE CURB.
- 04 NEW BUILDING CANOPY.
- 05 NEW SOD + IRRIGATION IN PROPOSED AREA.
- 06 EXISTING GENERATOR AND ENCLOSURE.
- 07 NEW LANDSCAPE RIVER ROCK.
- 08 RELOCATED TREE.

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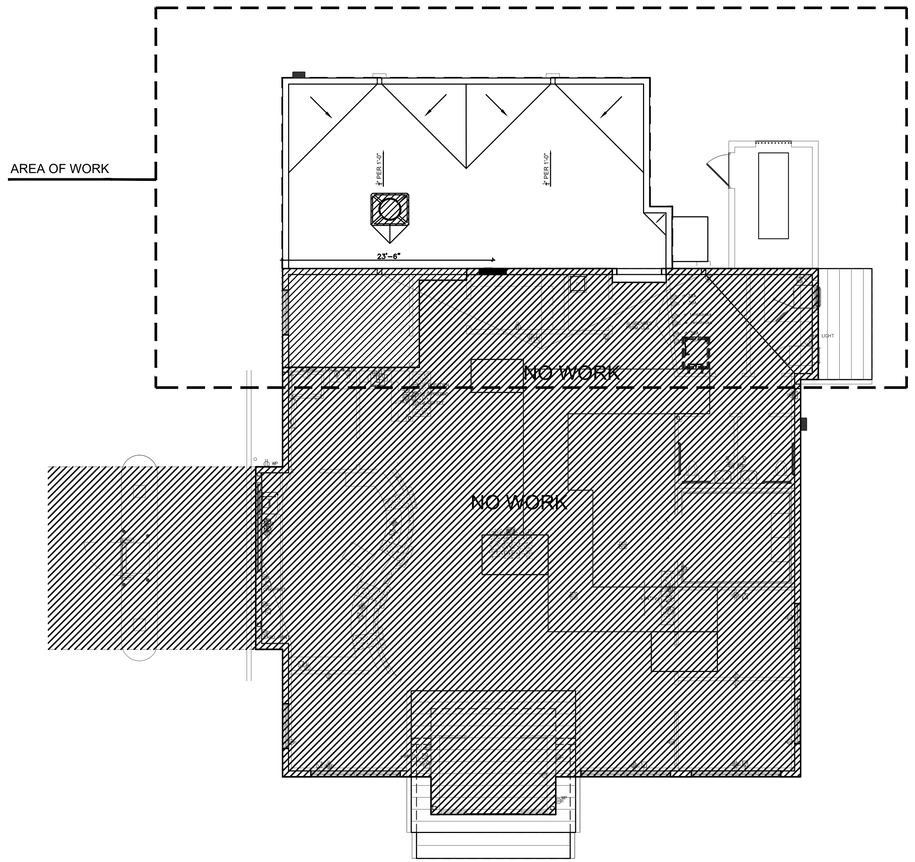
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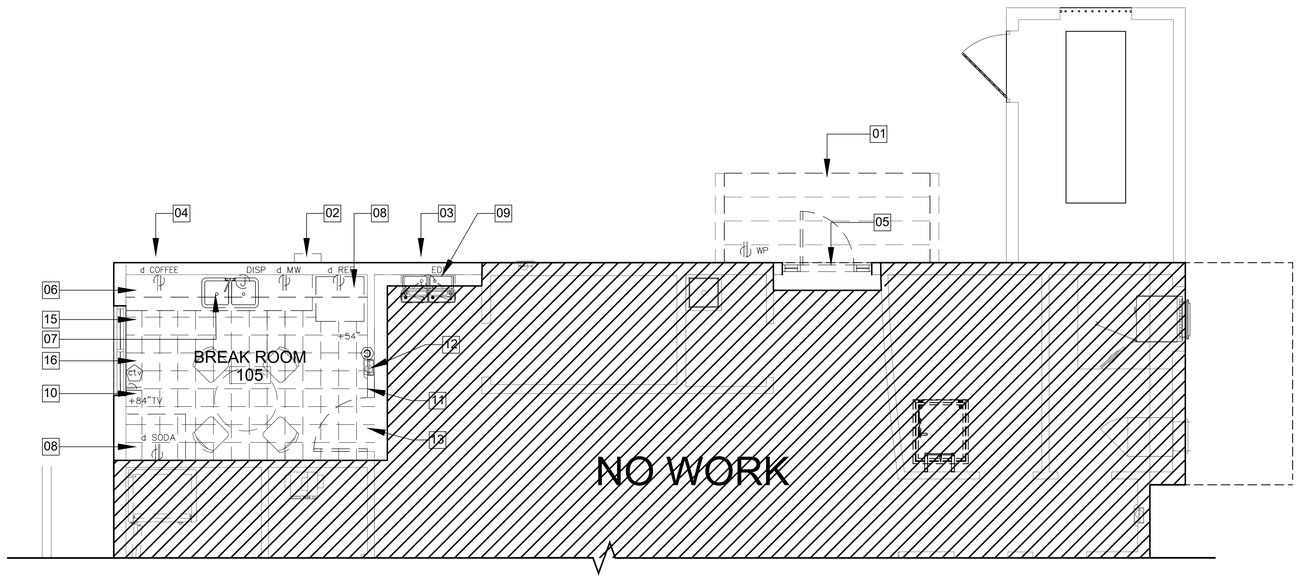
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14288
STATE OF TEXAS
04/30/26

DRAWING TITLE: SITE PLAN

DRAWN BY	RG
CHECKED BY	TL
APPROVED BY	TB

SHEET NO. SP-1.10


AREA OF WORK
NO WORK
NO WORK
23'-6"
2" PER 1'-0"
2" PER 1'-0"
SKYLIGHT
SKYLIGHT
SKYLIGHT



01 DEMO PLAN
SCALE: 1/4" = 1'-0"

KEY NOTES BY SYMBOL [X]:

01 DEMO EXISTING DOOR CANOPY

02 REMOVE ONE (1) EXISTING DOWNSPOUT

03 CUT NEW OPENINGS IN EXISTING WALL FOR ACCESS TO NEW ADDITION

04 REMOVE WALL PACK LIGHTS

05 REMOVE EXTERIOR WALL FINISHES (SAVE GLASS DOOR, SIDELIGHTS AND ALUMINUM FRAME FOR REUSE)

06 DEMO EXISTING BREAK ROOM MILLWORK

07 RELOCATE EXISTING SINK AND FAUCET IN PROPOSED BREAK ROOM 103

08 REMOVE EXISTING APPLIANCES. SALVAGE FOR RE-USE

09 DEMO EXISTING DRINKING FOUNTAIN

10 REMOVE TV FROM EXISTING BREAK ROOM AND SALVAGE FOR INSTALLATION IN NEW ADDITION

11 REMOVE PORTION OF EXISTING WALL TO ACCOMMODATE NEW OFFICE DOOR FRAME AND SIDELIGHT

12 REMOVE EXISTING FIRE EXTINGUISHER AND CABINET OUTSIDE EXISTING BREAK ROOM. RELOCATE IN PROPOSED HALL 100

13 DEMO EXISTING DOOR AND FRAME TO BREAK ROOM

14 EXISTING BREAK ROOM CEILING TILE AND GRID TO REMAIN

15 DEMO EXISTING CERAMIC FLOOR TILE AND BASE IN BREAK ROOM

16 DEMO EXISTING WALLCOVERING IN BREAK ROOM

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ISSUED FOR BIDDING	04.30.26
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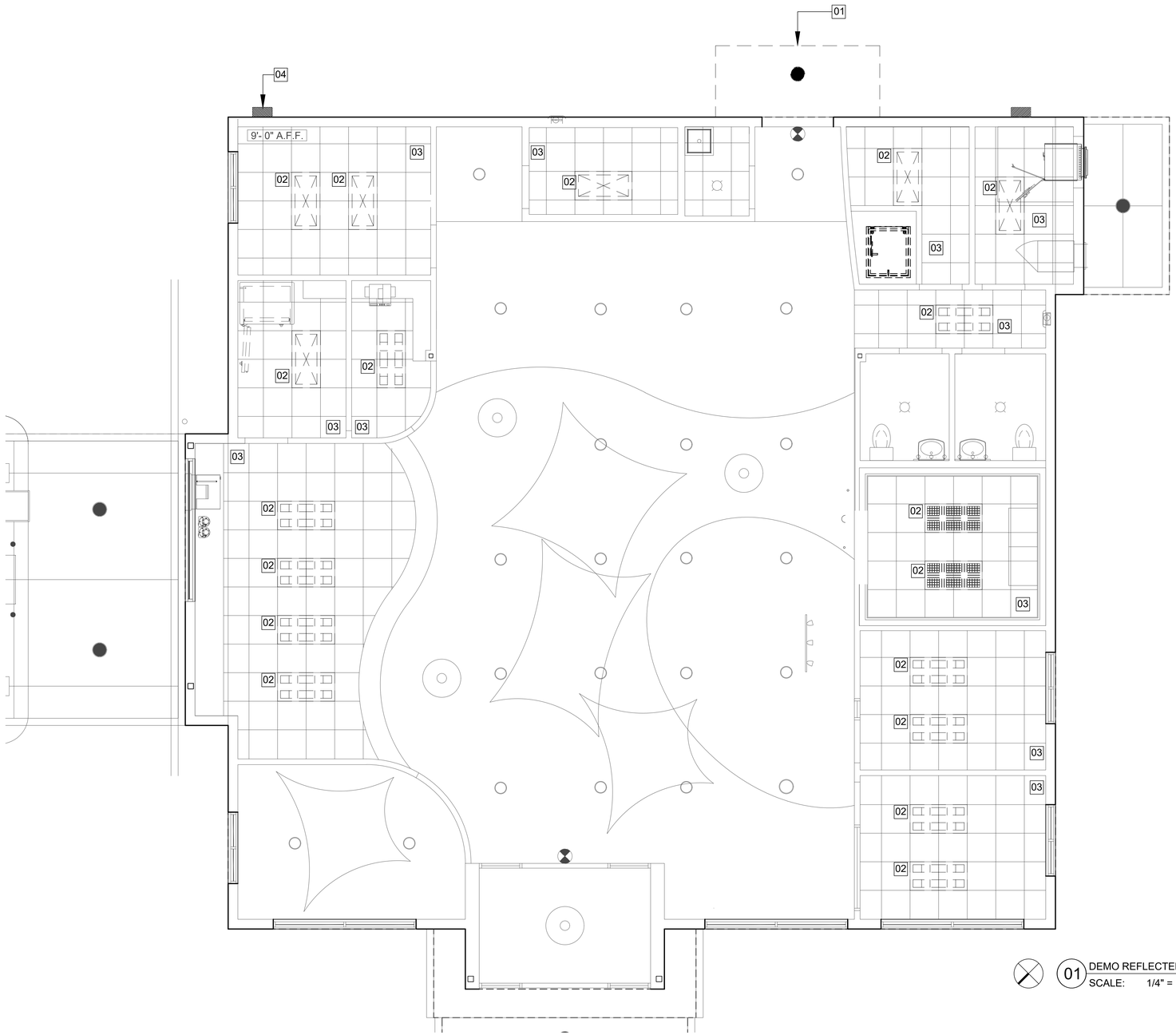
PRINT DATE Apr 30, 2026 – 10:55am

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STATE OF TEXAS
04/30/26

DRAWING TITLE DEMO PLANS

DRAWN BY RG
CHECKED BY BL
APPROVED BY TB

SHEET NO. D-1.10



01 DEMO REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

KEY NOTES BY SYMBOL ☒ :

- 01 DEMO EXISTING DOOR CANOPY
- 02 DEMO AND REPLACE EXISTING LIGHT FIXTURES WITH LED FIXTURE
- 03 EXISTING BREAK ROOM CEILING TILE AND GRID TO REMAIN
- 04 REMOVE WALL PACK LIGHTS

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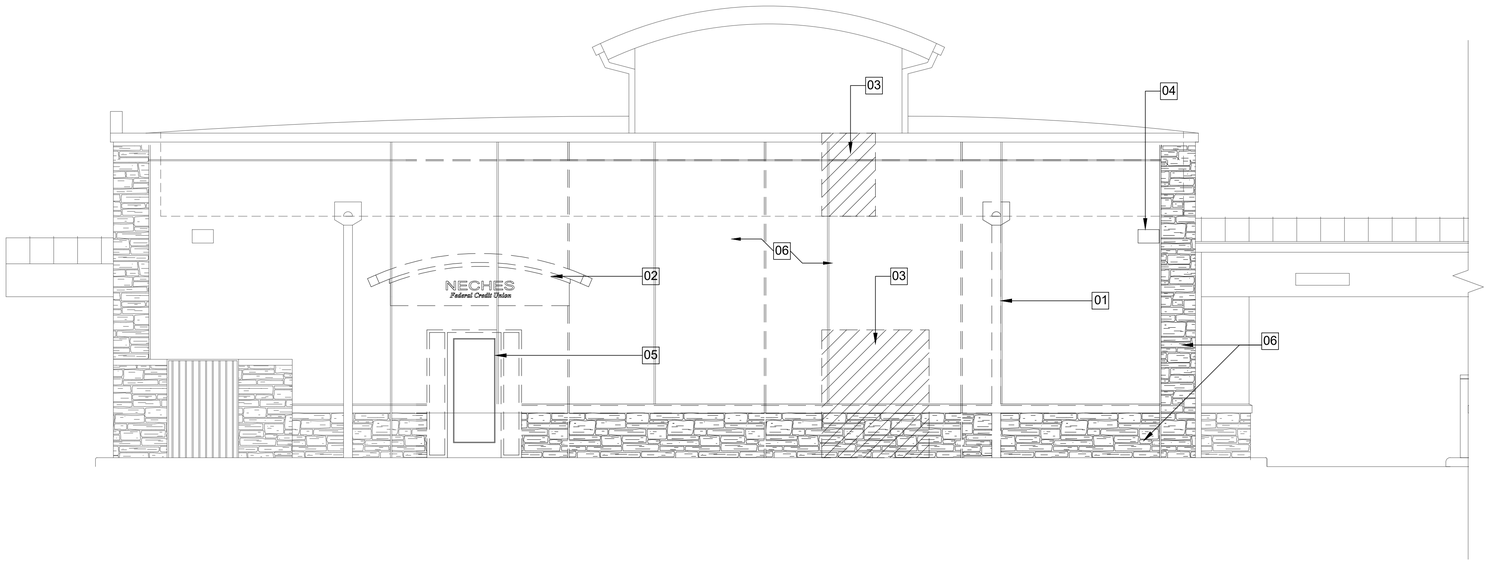
PRINT DATE Apr 30, 2026 – 10:55am

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14288
STATE OF TEXAS
04/30/26

DRAWING TITLE DEMO RCP

DRAWN BY	RG
CHECKED BY	BL
APPROVED BY	TB

SHEET NO. D-4.00



01 NORTH DEMO ELEVATION
SCALE: 1/4" = 1'-0"

KEY NOTES BY SYMBOL ☒:

01 REMOVE ONE (1) EXISTING DOWNSPOUT

02 DEMO EXISTING DOOR CANOPY

03 CUT NEW OPENING IN EXISTING WALL FOR ACCESS TO NEW ADDITION

04 REMOVE WALL PACK LIGHTS

05 REMOVE EXTERIOR WALL FINISHES (SAVE GLASS DOOR, SIDELIGHTS AND ALUMINUM FRAME FOR REUSE)

06 DEMO EXISTING EXTERIOR THIN VENEER STONE

07 PARTIAL EXTERIOR STUCCO DEMO FROM FINISH FLOOR TO 12IN ABOVE ADDITION NEW ROOF LINE

08 CUT NEW OPENING IN EXISTING PARAPET WALL FOR ACCESS TO NEW ADDITION ROOF

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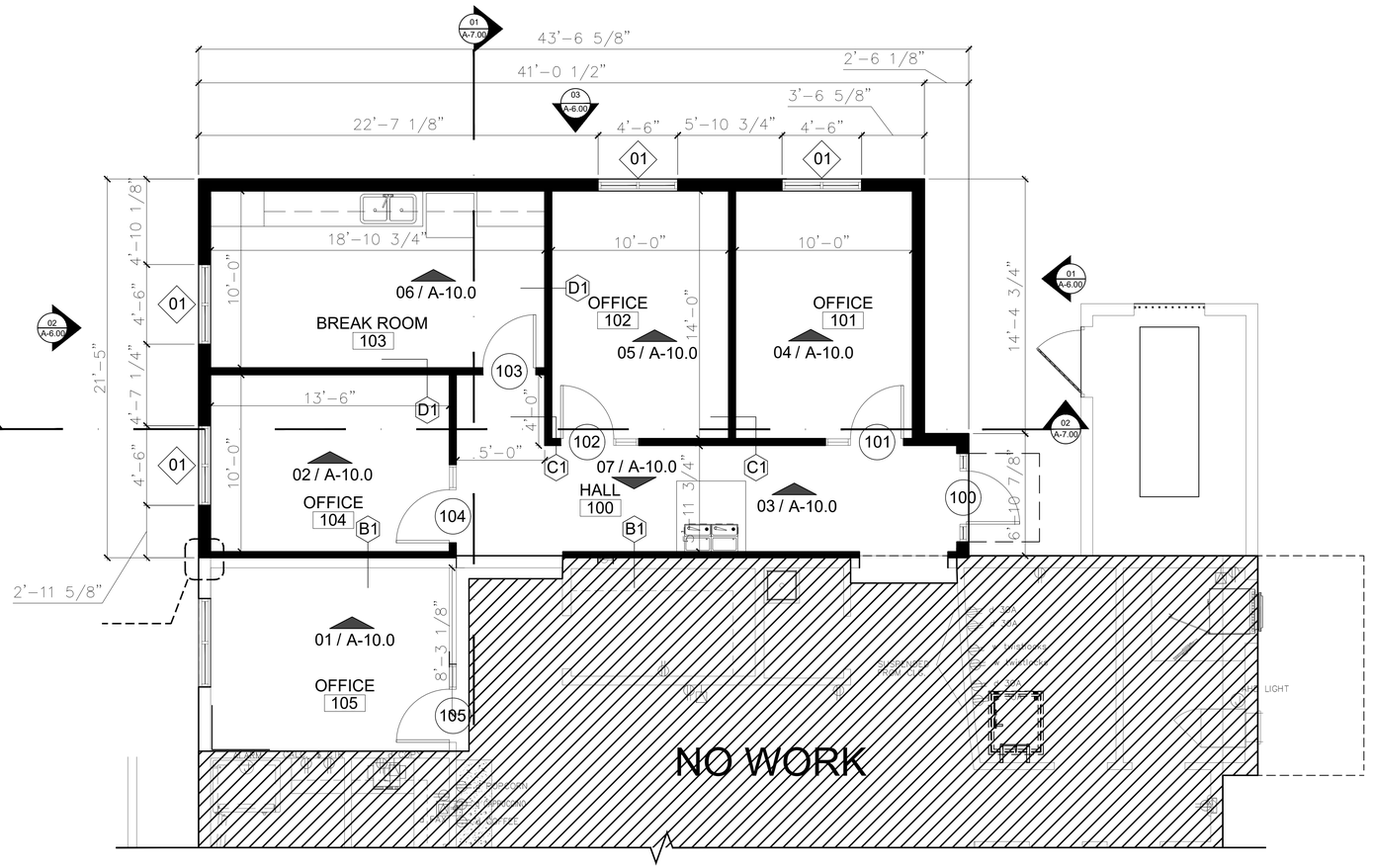
PRINT DATE Apr 30, 2026 – 10:57am

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STATE OF TEXAS
04/30/26

DRAWING TITLE
DEMO ELEVATIONS

DRAWN BY	RG
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APPROVED BY	TB

SHEET NO.
D-6.00



01 FLOOR PLAN
SCALE: 1/4" = 1'-0"

SLI DESIGN, INC.

ARCHITECTURE PLANNING INTERIOR DESIGN

15810 PARK TEN PLACE, SUITE 300
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NECHES LUMBERTON OFFICE ADDITION
299 Country Lane at U.S. 69
Lumberton, Texas 77657

PROJECT NUMBER : 8983

ISSUED FOR CLIENT APPROVAL	DATE 04.14.26
ISSUED FOR BIDDING	04.30.26
ISSUED FOR PERMIT	04.30.26
ISSUED FOR CONSTRUCTION	

REVISIONS

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PRINT DATE Apr 30, 2026 – 11:02am

REGISTERED ARCHITECT
THOMAS B. BAKER
14288
STATE OF TEXAS
04/30/26

DRAWING TITLE FLOOR PLAN

DRAWN BY	RG
CHECKED BY	BL
APPROVED BY	TB

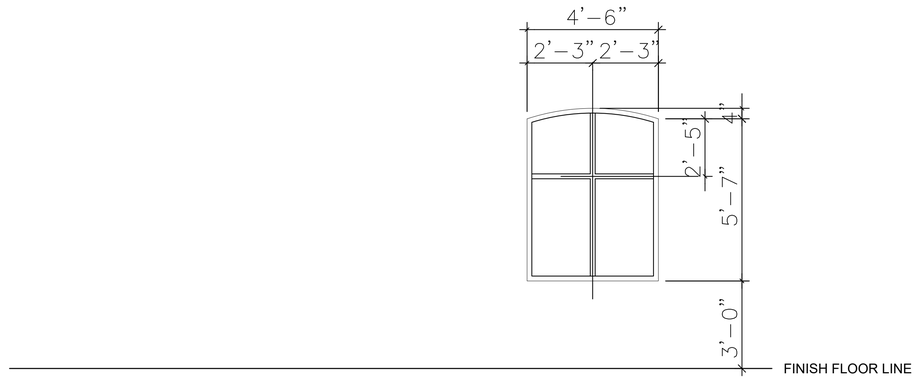
SHEET NO. A-1.00

DOOR SCHEDULE

	LOCATION		DOOR			FRAME		HARDWARE		
DOOR #	FROM	TO	HAND	TYPE	FINISH	TYPE	FINISH	SET	FINISH	NOTES
101	HALLWAY 100	OFFICE 101	RH	A	PL-1	ALUMINUM	ANOD. ALUM.	1	626	
102	HALLWAY 100	OFFICE 102	LH	A	PL-1	ALUMINUM	ANOD. ALUM.	1	626	
103	HALLWAY 100	BREAKROOM 103	RH	B	PL-1	ALUMINUM	ANOD. ALUM.	2	626	CLOSER
104	HALLWAY 100	OFFICE 104	LH	A	PL-1	ALUMINUM	ANOD. ALUM.	1	626	
105	HALLWAY 100	OFFICE 105	EX	EX	EXISTING	ALUMINUM	ANOD. ALUM.	1	626	RE USE EXISTING DOOR & HARDWARE IN NEW FRAME + SIDELITE

HW SET 1 (Office Lock)
1 1/2 pr. Butts - Hager BB1279 4 1/2 x 4
1 ea. Office Lock - Falcon Y521-Q
1 ea. Floor Stop - Trimco 1211

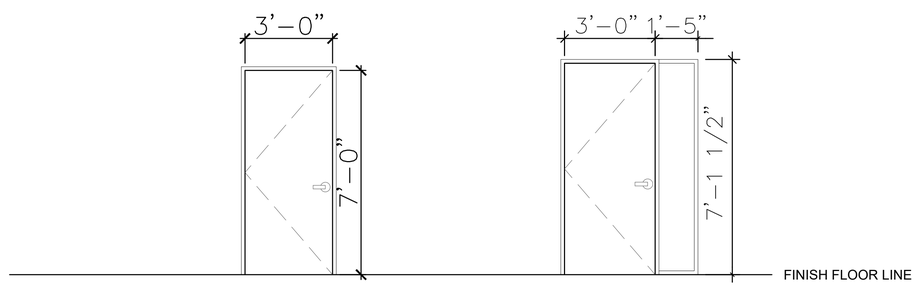
HW SET 2 (Passage Latchset)
1 1/2 pr. Butts - Hager BB1279 4 1/2 x 4
1 ea. Passage Latchset - Falcon Y511-Q
1 ea. Closer - Norton 8501 BF-689
1 ea. Floor Stop - Trimco 1211



01

EXTERIOR

CLEAR ANODIZED 1 3/4" x 4 1/2"
ALUMINUM STOREFRONT
WINDOW W/ GRAY 1/4"
TEMPERED SAFETY GLASS



Ⓑ
1 3/4" THICK
PLASTIC LAMINATE VENEER SOLID
CORE DOOR IN CLEAR ANODIZED
"RACO" TYPE ALUMINUM FRAME

Ⓐ
1 3/4" THICK
PLASTIC LAMINATE VENEER SOLID
CORE DOOR IN CLEAR ANODIZED
"RACO" TYPE ALUMINUM FRAME
W/SIDELITE

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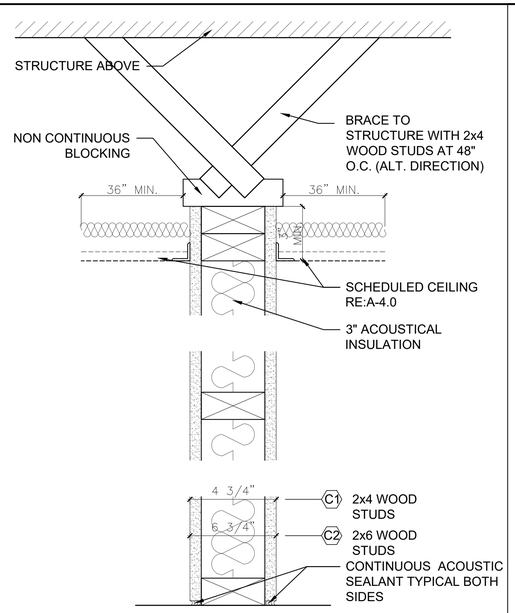
PRINT DATE Apr 30, 2026 - 11:03am

REGISTERED ARCHITECT
THOMAS B. BARKER
14288
STATE OF TEXAS
04/30/26

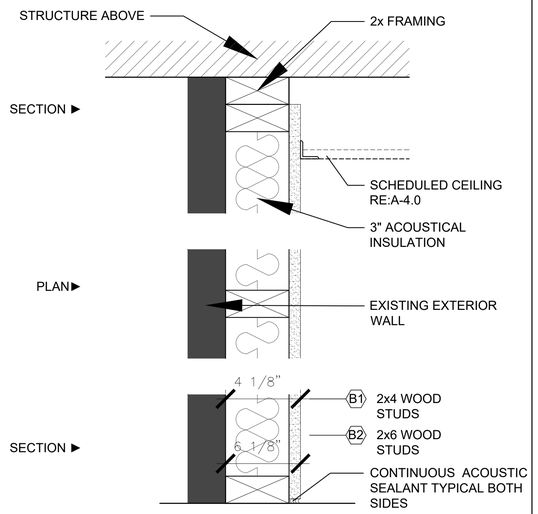
DRAWING TITLE
WINDOW & DOOR SCHEDULE

DRAWN BY	RG
CHECKED BY	BL
APPROVED BY	TB

SHEET NO.
A-2.00



PARTITION TYPE C:
2x WOOD STUDS @ 16" O.C.
WITH ONE LAYER OF $\frac{5}{8}$" GYPSUM BOARD EACH SIDE AND 3" FIBERGLASS ACOUSTICAL INSULATION FULL HEIGHT

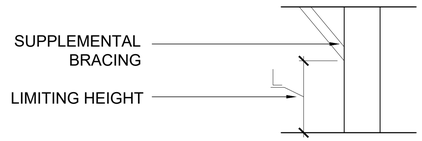


PARTITION TYPE B:
2x WOOD STUDS @ 16" O.C.
WITH ONE LAYER OF $\frac{5}{8}$" GYPSUM BOARD ON ONE SIDE AND 3" FIBERGLASS ACOUSTICAL INSULATION FULL HEIGHT

THE ALPHANUMERIC DESIGNATION IN EACH PARTITION TYPE SYMBOL DESCRIBES THE PARTITION CONSTRUCTION, THICKNESS, AND FIRE RATING, IF REQUIRED.

WHERE FIRE RESISTIVE GYPSUM WALLBOARD CONSTRUCTION IS INDICATED. PROVIDE "TYPE X" GYPSUM WALLBOARD AND PROVIDE SEALANT AT PERIMETER AND ALL PENETRATIONS, TYPICAL BOTH SIDES OF PARTITION. MARKINGS AND IDENTIFICATIONS REQUIRED ABOVE WALLS PER IBC 703.7 (15FT OFF END WALLS AND 30 FT MAX INTERNALS)

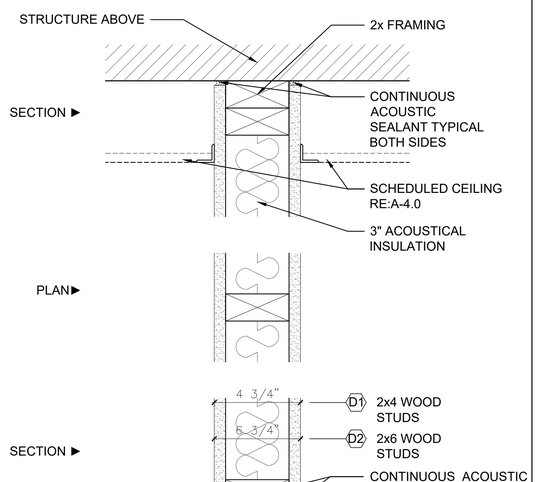
UNDERWRITERS LABORATORY AND OTHER TESTING AGENCY DESIGNATIONS INDICATED FOR FIRE RESISTIVE CONSTRUCTION ARE GIVEN FOR PURPOSES OF DESCRIBING CONSTRUCTION REQUIREMENTS ONLY AND ARE NOT INTENDED TO LIMIT MANUFACTURERS OF MATERIALS. COMPLY WITH THE CONSTRUCTION REQUIREMENTS OF THE INDICATED DESIGN.
LIMITING HEIGHTS GIVE THE MAXIMUM UNSUPPORTED HEIGHT FOR THAT PARTITION TYPE BASED ON A DEFLECTION CRITERIA RATIO OF L/240.
WHERE FLOOR TO STRUCTURE HEIGHT OF PARTITION EXCEEDS THE INDICATED LIMITING HEIGHT, PROVIDE SUPPLEMENTAL BRACING TO THE STRUCTURE OVERHEAD AS REQUIRED TO MAINTAIN DEFLECTION RATIO WITHIN L/240.



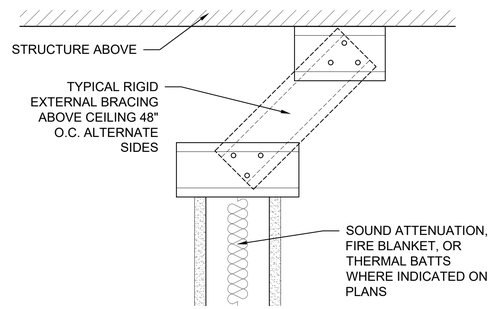
FOR PARTITION WITH "BRITTLE" FINISHES SUCH AS PLASTER AND CERAMIC TILE, DESIGN PARTITION SYSTEM TO MAINTAIN DEFLECTION RATIO WITHIN L/360.
SUSPENDED CEILING SHALL NOT BE CONSIDERED AS BRACING.
PROVIDE DUROCK CEMENT BOARD AS SUBSTRATE FOR APPLICATION OF CERAMIC TILE.
PROVIDE GREENBOARD IN ALL RESTROOMS, JANITOR CLOSETS AND BEHIND WATER FOUNTAINS.
STC RATINGS FOR SOUND WALLS ARE BASED ON LABORATORY TESTED ASSEMBLIES AND DO NOT NECESSARILY INDICATE THE ACTUAL STC RATING OF THE COMPLETED WORK.

PARTITION TYPE: (B) SCALE: 1' = 1'-0"

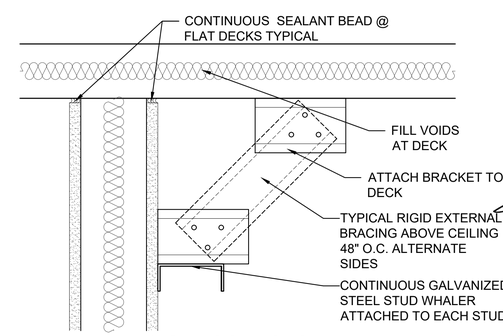
GENERAL NOTES SCALE: N.T.S.



PARTITION TYPE D:
2x WOOD STUDS @ 16" O.C.
WITH ONE LAYER OF $\frac{5}{8}$" GYPSUM BOARD EACH SIDE AND 3" FIBERGLASS ACOUSTICAL INSULATION FULL HEIGHT



HEAD (FOR LOCATIONS WHERE PARTITIONS DO NOT ATTACH TO DECK ABOVE)



HEAD (FOR LOCATIONS WHERE PARTITIONS HEIGHT EXCEEFS LISTED LIMITING HEIGHT)

PARTITION TYPE: (D) SCALE: 1' = 1'-0"

BRACE DETAIL SCALE: N.T.S.

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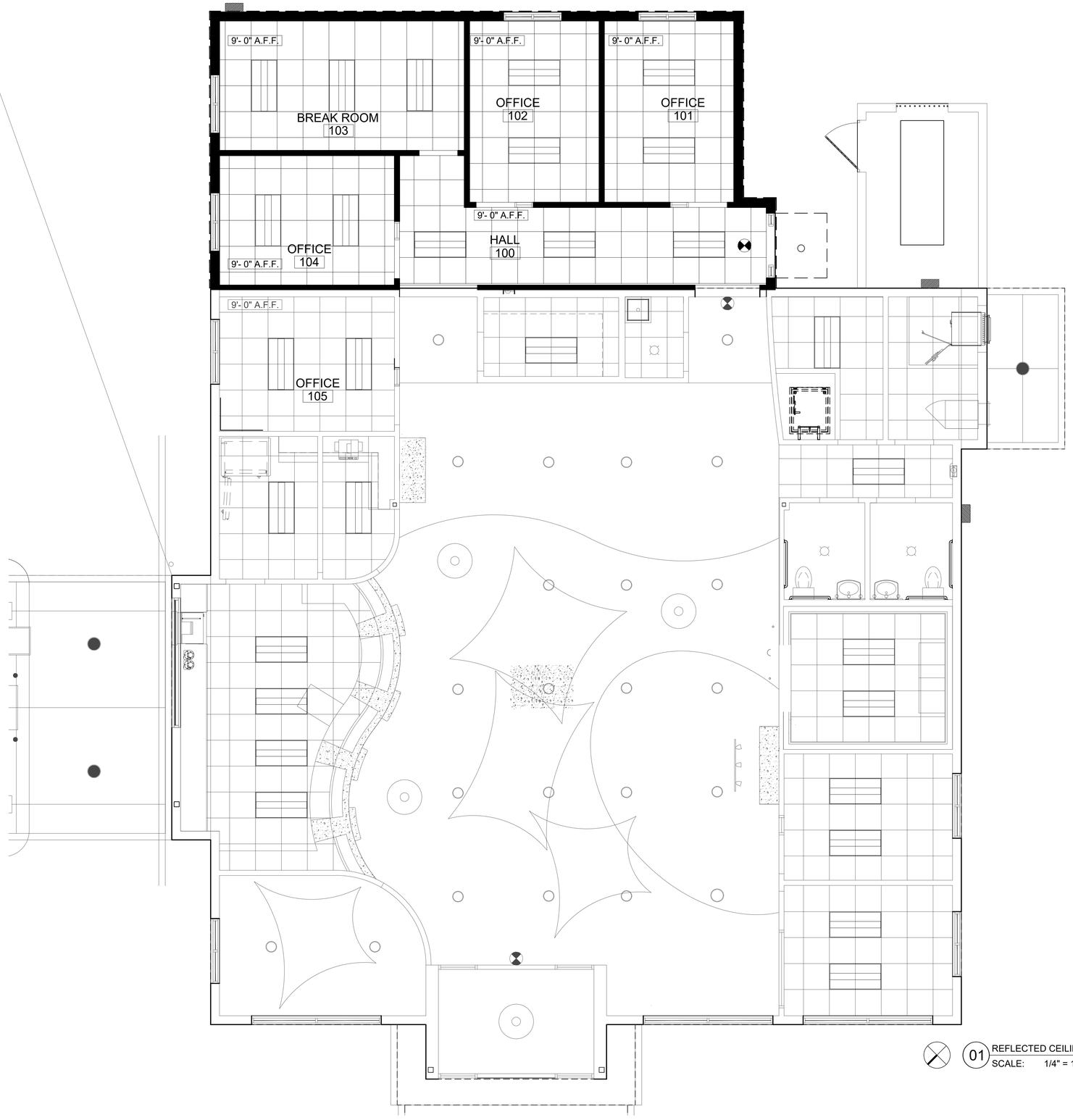
PRINT DATE Apr 30, 2026 - 11:03am

REGISTERED ARCHITECT THOMAS B. BARKER 14288 STATE OF TEXAS
04/30/26

DRAWING TITLE
INTERIOR PARTITIONS

DRAWN BY	DF
CHECKED BY	TB
APPROVED BY	TB

SHEET NO.
A-3.00



01 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:
1. CENTER GRID IN EACH ROOM (TYPICAL) U.N.O.
2. CEILING HEIGHT TO BE 9'-0" A.F.F. U.N.O.
3. SPECIFICATION ON INTERIOR 2'x2' TEGULAR CEILING TILE: CERTAINTEED SAND MICRO, WITH $\frac{15}{16}$" WHITE GRID

CEILING LEGEND

SYMBOL	DESCRIPTION
	2'x2' CERTAINTEED "BAROQUE" #BET-154 WITH THE NRC OF .50 $_{15}$ TEGULAR CEILING TILE WITH " WHITE GRID 15/16.
	TAPED, FLOATED, TEXTURED AND PAINTED $\frac{5}{8}$" GYPSUM WALLBOARD CEILING/SOFFIT
	CEMENT PLASTER STUCCO SOFFIT
XX'- X" A.F.F.	INDICATES CEILING HEIGHT

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	2'x4' RECESSED LED FIXTURE; RE:ELECTRICAL DRAWINGS
	2'x4' RECESSED LED FIXTURE WITH EMERGENCY BACKUP; RE:ELECTRICAL DRAWINGS
	UNDERCOUNTER TASK LIGHTING; RE:ELECTRICAL DRAWINGS
	RECESSED CAN LIGHT FIXTURE; RE:ELECTRICAL DRAWINGS
	RECESSED CAN LIGHT FIXTURE W/ EMERGENCY BACKUP; RE:ELECTRICAL DRAWINGS
	RECESSED EXTERIOR CAN LIGHT FIXTURE; RE:ELECTRICAL DRAWINGS
	EXTERIOR LIGHT SCONCE RE:ELECTRICAL DRAWINGS
	EXTERIOR WALL PACK RE:ELECTRICAL DRAWINGS

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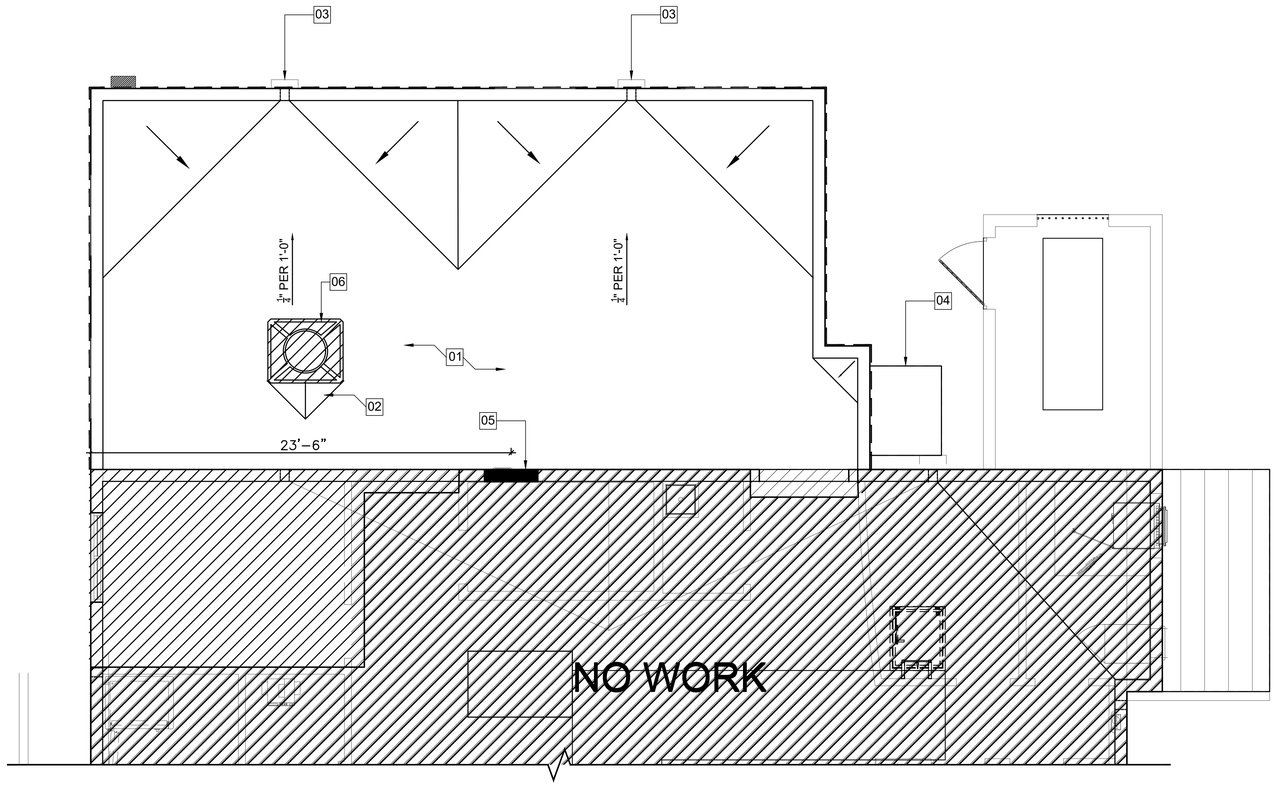
PRINT DATE Apr 30, 2026 – 11:04am

REGISTERED ARCHITECT
THOMAS B. PAINTER
14288
STATE OF TEXAS
04/30/26

DRAWING TITLE: RCP

DRAWN BY	RG
CHECKED BY	BL
APPROVED BY	TB

SHEET NO. A-4.00



01 ROOF PLAN
SCALE: 1/4" = 1'-0"

KEY NOTES BY SYMBOL X :

01 SINGLE SLOPED 60 Mil SINGLE PLY TPO ROOF (FIRESTONE ULTRA FLEX ADHERED OR EQUAL) OVER R-25 CONTINUOUS RIGID INSULATION ON 5/8" APA RATED ROOF DECK.

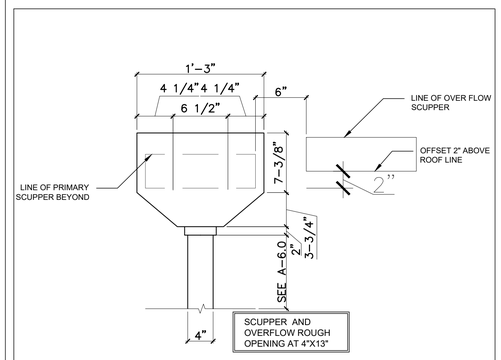
02 CRICKET

03 SCUPPER AND DOWNSPOUT. MATCH EXISTING. RE:03/A-5.00 RE:SCHEDULE ON A-6.00

04 6'-0" X 4'-0" PRE-MANUFACTURED CANOPY.

05 NEW 3FT WIDE OPENING IN EXISTING PARAPET WALL FOR ACCESS TO NEW ADDITION ROOF.

06 NEW ROOF MOUNTED UNITS (RTU-4) REF: MECHANICAL DWGS.



02 SCUPPER DETAIL
SCALE: NTS

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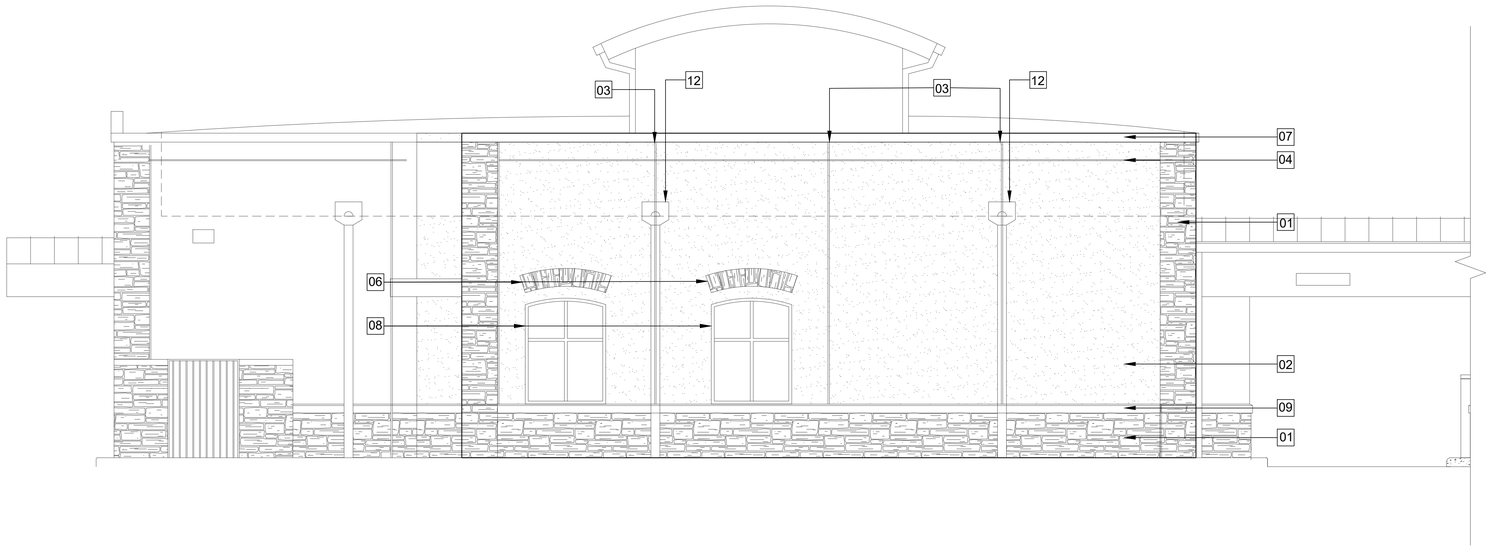
PRINT DATE Apr 30, 2026 – 11:05am

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THOMAS B. BAKER
14288
STATE OF TEXAS
04/30/26

DRAWING TITLE ROOF PLAN

DRAWN BY	RG
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APPROVED BY	TB

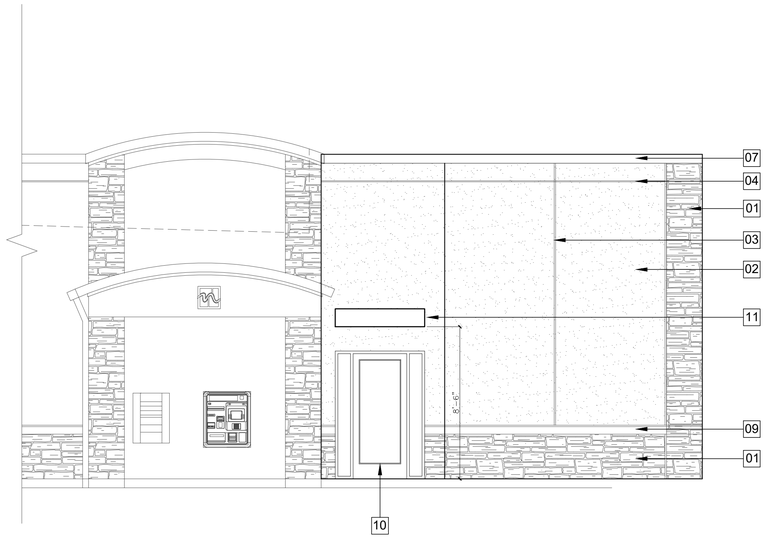
SHEET NO. A-5.00



03 REAR ADDITION ELEVATION
SCALE: 1/4" = 1'-0"



02 SIDE ADDITION ELEVATION
SCALE: 1/4" = 1'-0"



01 SIDE ADDITION ELEVATION
SCALE: 1/4" = 1'-0"

EXTERIOR FINISHES	
STONE VENEER	COOPER STONE "CORDOVA CREAM" VENEER STONE
METAL CANOPY COLOR	BERRIDGE "ROYAL BLUE"
CAST STONE	THE ARK "LIGHT BUFF"
STOREFRONT FRAMES	CLEAR ANODIZED ALUMINUM
BOXES/DOWNSPOUTS	SENOX "CLAY" (TO MATCH STUCCO)
PARAPET COPING	SENOX "RAFFIA BEIGE" OR MATCH SW 6148 "WOOL SKEIN"
STUCCO	SHERWIN WILLIAMS SW 7038 "TONY TAUPE"

KEY NOTES BY SYMBOL ☒ :

01 STONE VENEER. MATCH EXISTING.

02 STUCCO FINISH. MATCH EXISTING.

03 STUCCO CONTROL JOINTS. MATCH EXISTING.

04 3/4" REVEAL FOR LED "LIGHT TAPE" MATCH EXISTING.

05 STONE VENEER. MATCH EXISTING.

06 12" HIGH STONE VENEER HEADER 8" ABOVE WINDOW, TYPICAL AT ALL 7 ARCHED WINDOWS. MATCH EXISTING.

07 PRE-FINISHED ALUMINUM 6" COPING CAP. MATCH EXISTING.

08 ALUMINUM/GLASS WINDOW, FRAME MATCH EXISTING. RE: SHEET A-2.0

09 CAST STONE WATER TABLE

10 RELOCATED ALUMINUM/GLASS STOREFRONT DOOR, SIDELIGHTS, FRAME

11 6'W X 4' D STRAIGHT ALUMINUM CANOPY ABOVE REAR ENTRY DOOR

12 PRE-FINISHED ALUMINUM COLLECTOR BOXES W/ OVERFLOW SCUPPERS AND 6" X 6" DOWNSPOUTS ROUTE TO UNDERGROUND STORM SEWER DRAINAGE SYSTEM

NOTE:
ALL EXTERIOR FINISH MATERIALS SHALL MATCH EXISTING

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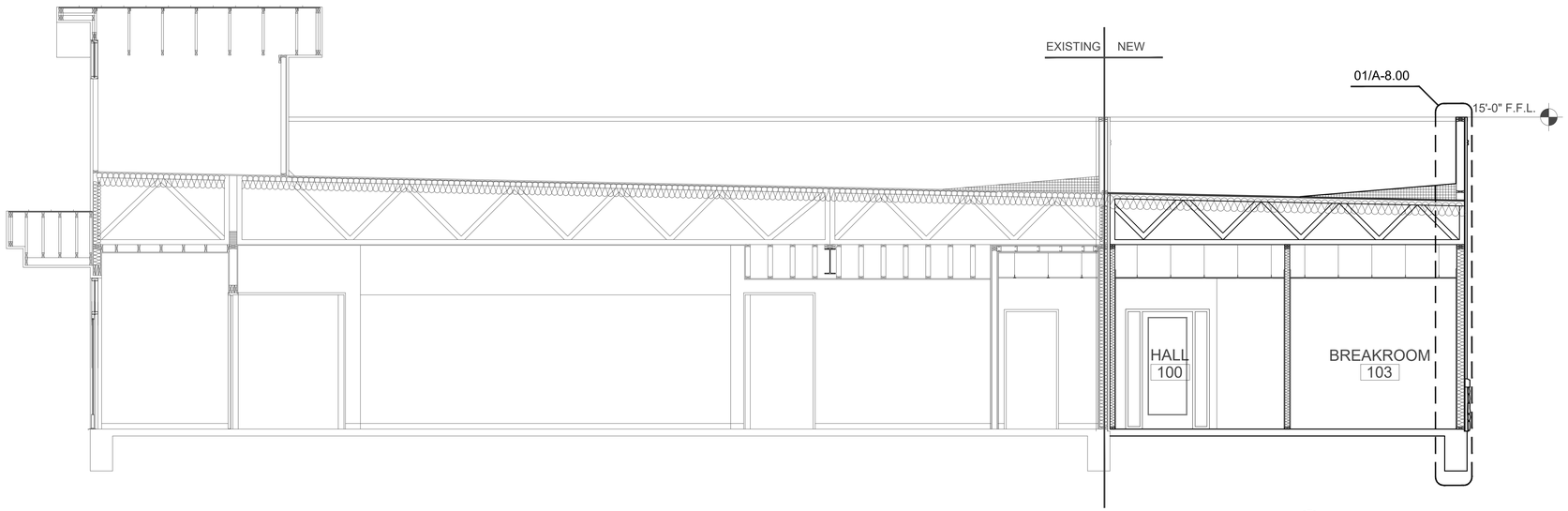
PRINT DATE Apr 30, 2026 – 11:07am

REGISTERED ARCHITECT
THOMAS B. RAINER
14288
STATE OF TEXAS
04/30/26

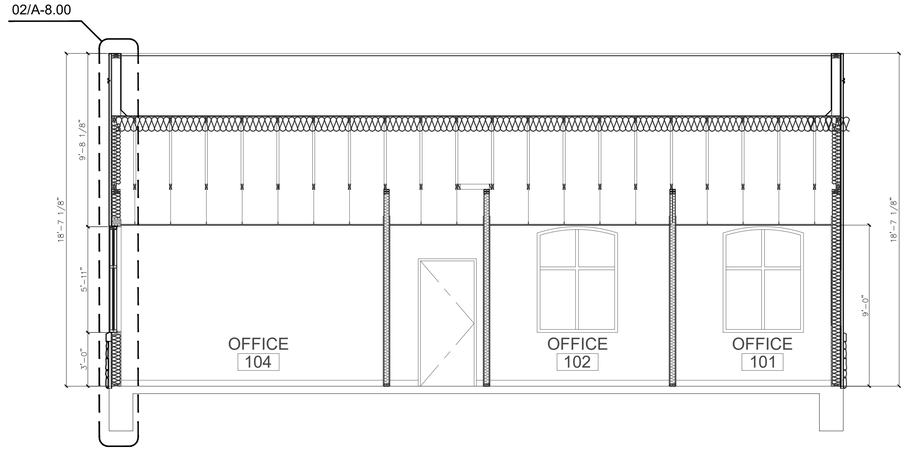
DRAWING TITLE
BUILDING ELEVATIONS

DRAWN BY	RG
CHECKED BY	BL
APPROVED BY	TB

SHEET NO.
A-6.00



01 BUILDING SECTION
SCALE: 1/4" = 1'-0"



02 BUILDING SECTION
SCALE: 1/4" = 1'-0"

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NECHES LUMBERTON OFFICE ADDITION
299 Country Lane at U.S. 69
Lumberton, Texas 77657

PROJECT NUMBER : 8983

	DATE
ISSUED FOR CLIENT APPROVAL	04.14.26
ISSUED FOR BIDDING	04.30.26
ISSUED FOR PERMIT	04.30.26
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE

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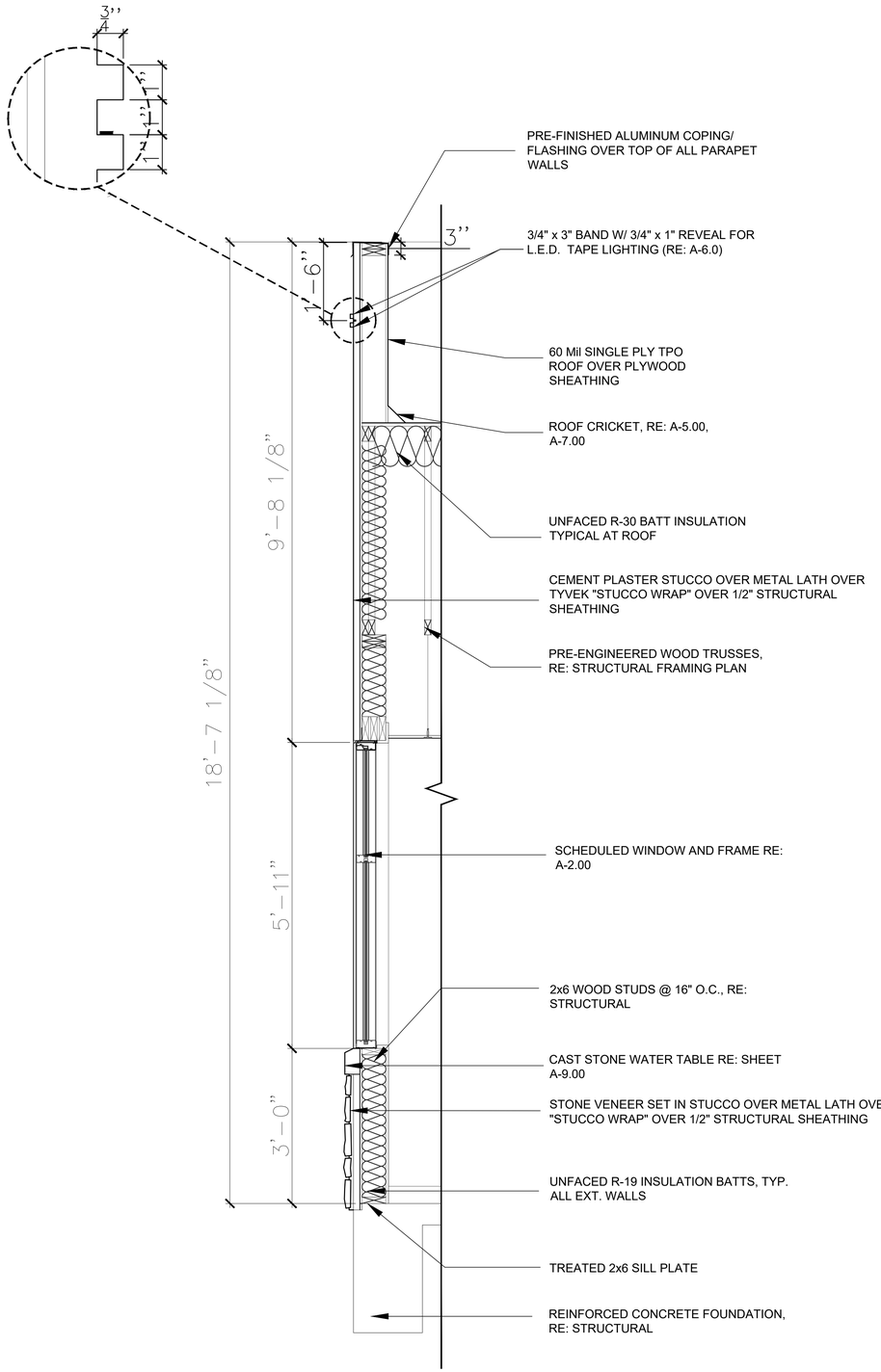
PRINT DATE Apr 30, 2026 – 11:08am

REGISTERED ARCHITECT
THOMAS B. BAKER
14288
STATE OF TEXAS
04/30/26

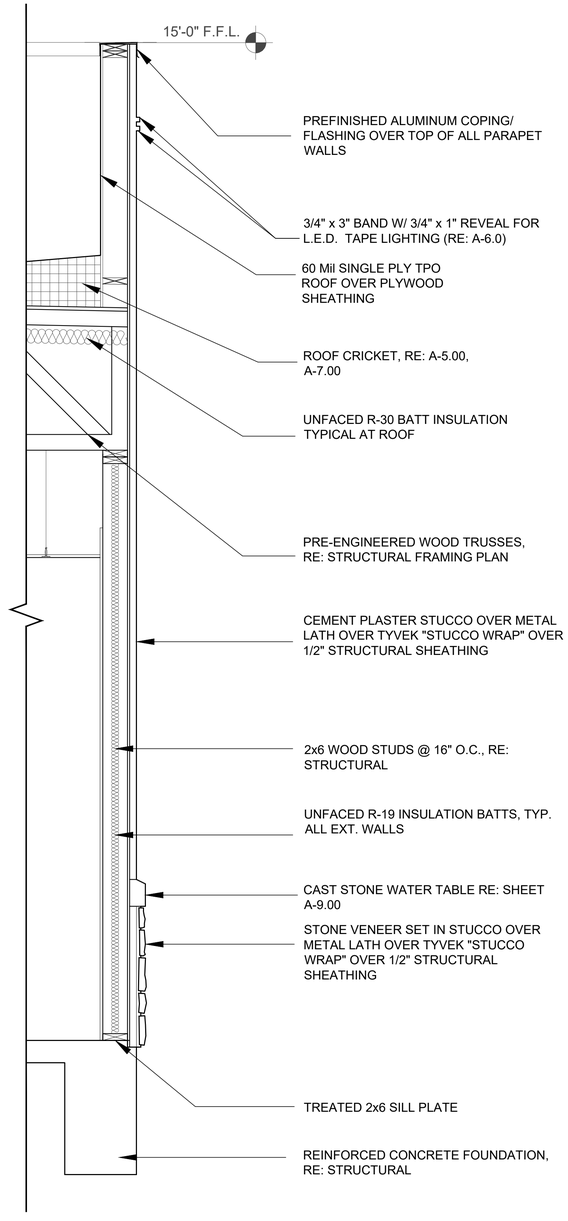
DRAWING TITLE
BUILDING SECTIONS

DRAWN BY	RG
CHECKED BY	BL
APPROVED BY	TB

SHEET NO.
A-7.00



02 WALL SECTION
SCALE: 3/4" = 1'-0"



01 WALL SECTION
SCALE: 3/4" = 1'-0"

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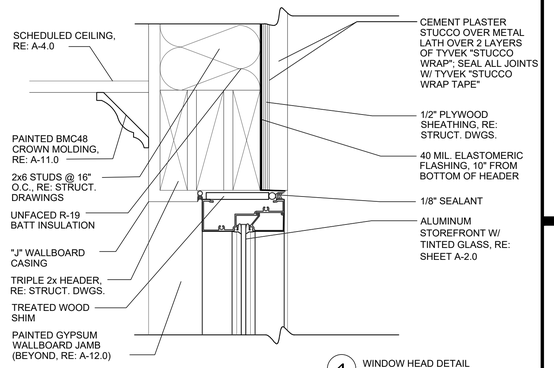
PRINT DATE May 04, 2026 – 9:20am

REGISTERED ARCHITECT
THOMAS B. BLINER
14288
STATE OF TEXAS
04/30/26

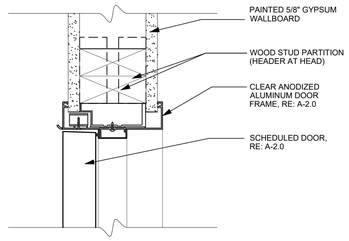
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DRAWN BY RG
CHECKED BY BL
APPROVED BY TB

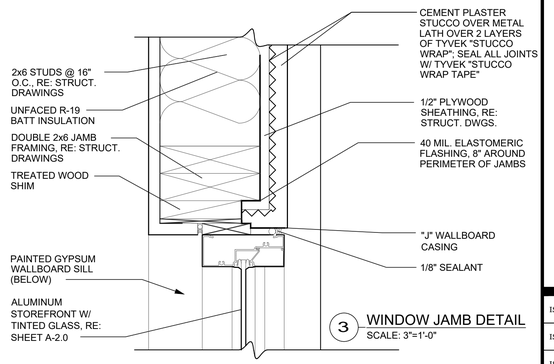
SHEET NO. A-8.00



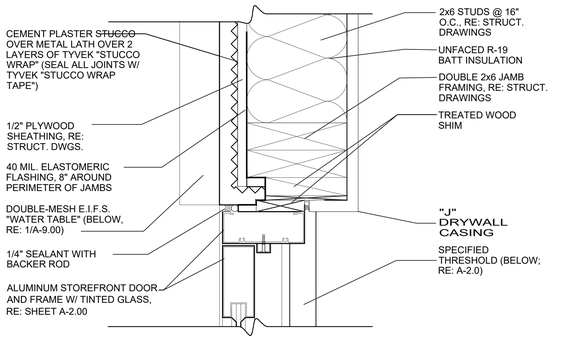
4 WINDOW HEAD DETAIL
SCALE: 3"=1'-0"



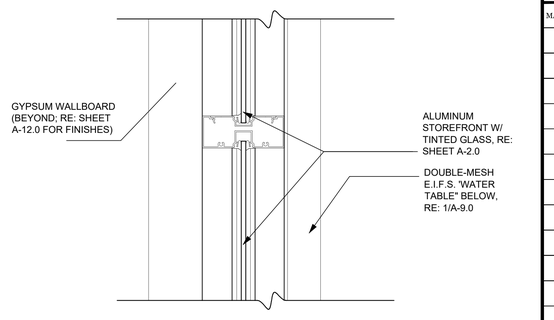
7 NTERIOR DOOR HEAD/JAMB DETAIL
SCALE: 3"=1'-0"



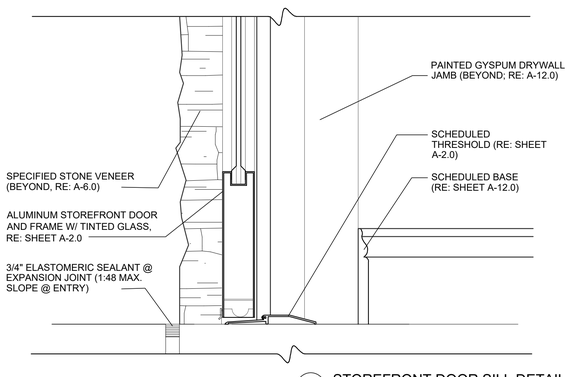
3 WINDOW JAMB DETAIL
SCALE: 3"=1'-0"



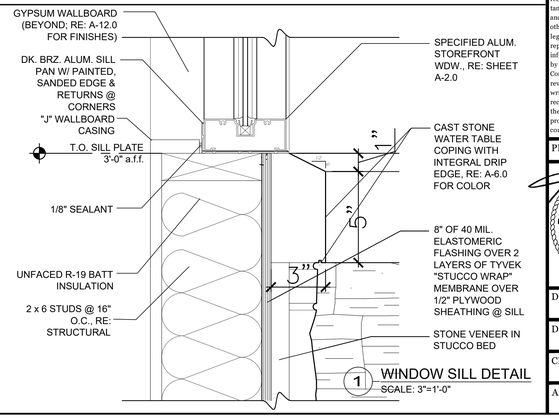
6 STOREFRONT DOOR JAMB DETAIL
SCALE: 3"=1'-0"



2 WINDOW MULLION DETAIL
SCALE: 3"=1'-0"



5 STOREFRONT DOOR SILL DETAIL
SCALE: 3"=1'-0"



1 WINDOW SILL DETAIL
SCALE: 3"=1'-0"

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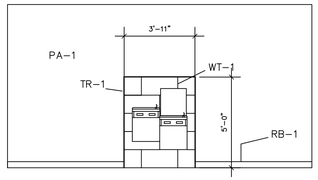
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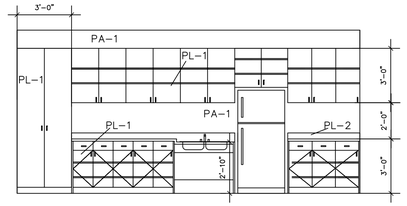
REGISTERED ARCHITECT
THOMAS B. BAUMER
14288
STATE OF TEXAS
04/30/26

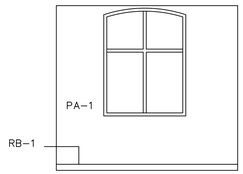
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DETAILS

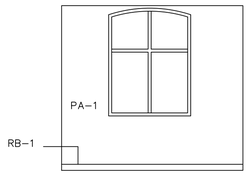
DRAWN BY	RG
CHECKED BY	BL
APPROVED BY	TB

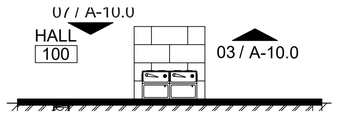
SHEET NO.
A-9.00



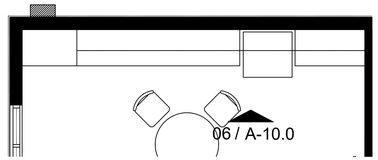








7 HALL 100 SOUTH
SCALE: 1/4"=1'-0"



6 BREAKROOM 103
SCALE: 1/4"=1'-0"

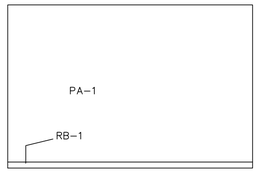


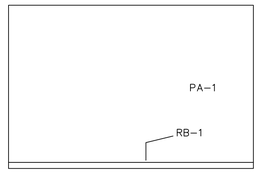
5 OFFICE 102
SCALE: 1/4"=1'-0"

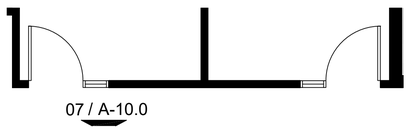


4 OFFICE 101
SCALE: 1/4"=1'-0"

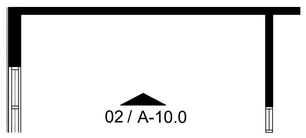




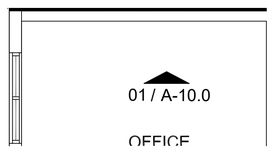




3 HALL 100
SCALE: 1/4"=1'-0"



2 OFFICE 104
SCALE: 1/4"=1'-0"



1 OFFICE 105
SCALE: 1/4"=1'-0"

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ISSUED FOR PERMIT	04.30.26
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REVISIONS

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PRINT DATE Apr 30, 2026 – 4:35pm

REGISTERED ARCHITECT
THOMAS B. PAMPER
14288
STATE OF TEXAS
04/30/26

DRAWING TITLE
INTERIOR ELEVATIONS

DRAWN BY	PL
CHECKED BY	BL
APPROVED BY	BL

SHEET NO.
A-10.00

LEFT INTENTIONALLY BLANK

LEFT INTENTIONALLY BLANK

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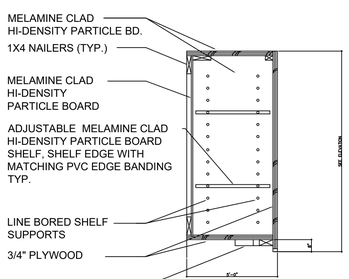
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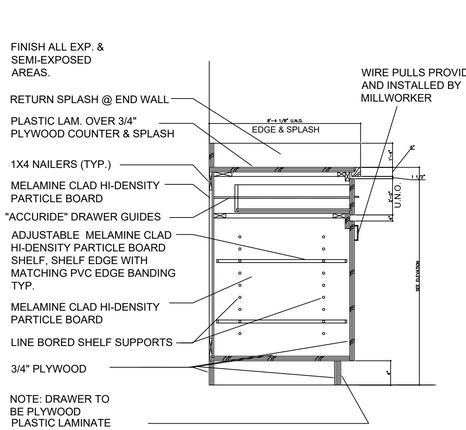
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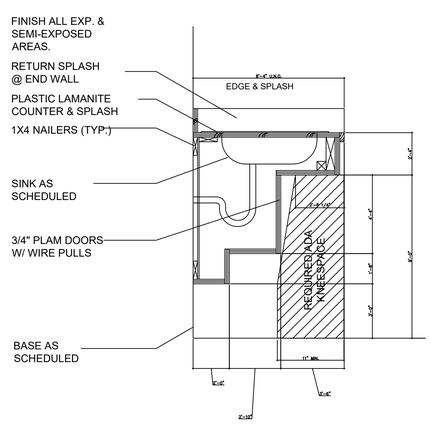


MILLWORK WILL REQUIRE WIRE PULLS, RE: ELEVATIONS FOR WIRE PULL LOCATIONS. WIRE PULLS TO BE PROVIDED BY SLI & INSTALLED BY MILLWORK SUB-CONTRACTOR

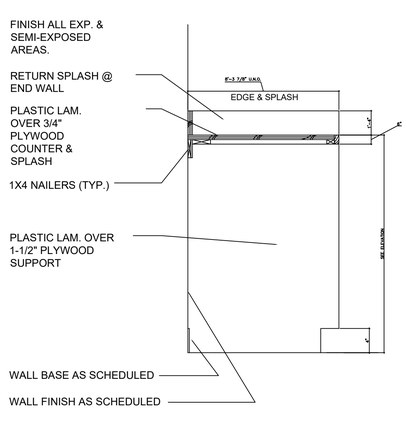
4 UPPER CABINET SCALE: 1"= 1'-0"



3 BASE CABINET WITH DRAWER AND HANDLE 1'-0" SCALE: 1"=



2 BASE CABINET WITH ADA SINK SCALE: 1"= 1'-0"



1 TYPICAL COUNTER SCALE: 1"= 1'-0"

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REGISTERED ARCHITECT THOMAS B. BARKER 14288 STATE OF TEXAS
04/30/26

DRAWING TITLE
MILLWORK SECTIONS

DRAWN BY PL

CHECKED BY BL

APPROVED BY BL

SHEET NO.
A-11.00

MATERIAL LEGEND

CA–1	PATCRAFT, STRATEGY COLLECTION, APPROACH, SHOTGUN, IO246-46407 BROADLOOM
RB–1	RUBBER BASE, ROPPE, 4" BROWN/BLACK, COVE #193
LVT-1	KARDEAN, OPUS, TENEBRA WALNUT, WP330, 6" X 36" .098 THICKNESS, STAGGERED LAYOUT
PA–1	PITTSBURGH PAINTS, 515-4, MOTH GRAY, EGGSHELL
PL–1	PLASTIC LAMINATE, WILSON ART, FLORENCE WALNUT,7993
PL–2	PLASTIC LAMINATE, WILSON ART, PEARL SOAPSTONE, 4886
WB–1	FAUX WOOD BLINDS, J'S BLINDS, PEARL WHITE, EMB E04
WT–1	MARAZZI - MODERN FORMATION , MF01 PEAK WHITE UNPOLISHED
FT–1	MARAZZI - MODERN FORMATION, MF01 PEAK WHITE UNPOLISHED
TR–1	SCHLUTER SYSTEMS, JOLLY, BRUSHED CHROME ANODIZED, J60SP
GR–1	TEXRITE, CANVAS, 251

GENERAL NOTES

NO.	DESCRIPTION
1	Submit a 12"x12" sample of all wall finishes to SLI for approval
2	Provide shop drawings for all plastic laminate case goods
3	All carpet/VCT transitions to be flush
4	Rubber transition strips to be installed all other transitions; ceramic to VCT
5	Rubber transition strips to be installed all other transitions; rubber tile to glue down carpet
6	All grout lines to be sealed
7	All wall covering material supplied and installed by SLI
8	Reno TX Schluter material transition strips to be installed between ceramic tile and glue-down carpet
9	All VCT to be sealed with 3-5 coats of wax, buff between coats

ROOM FINISH SCHEDULE

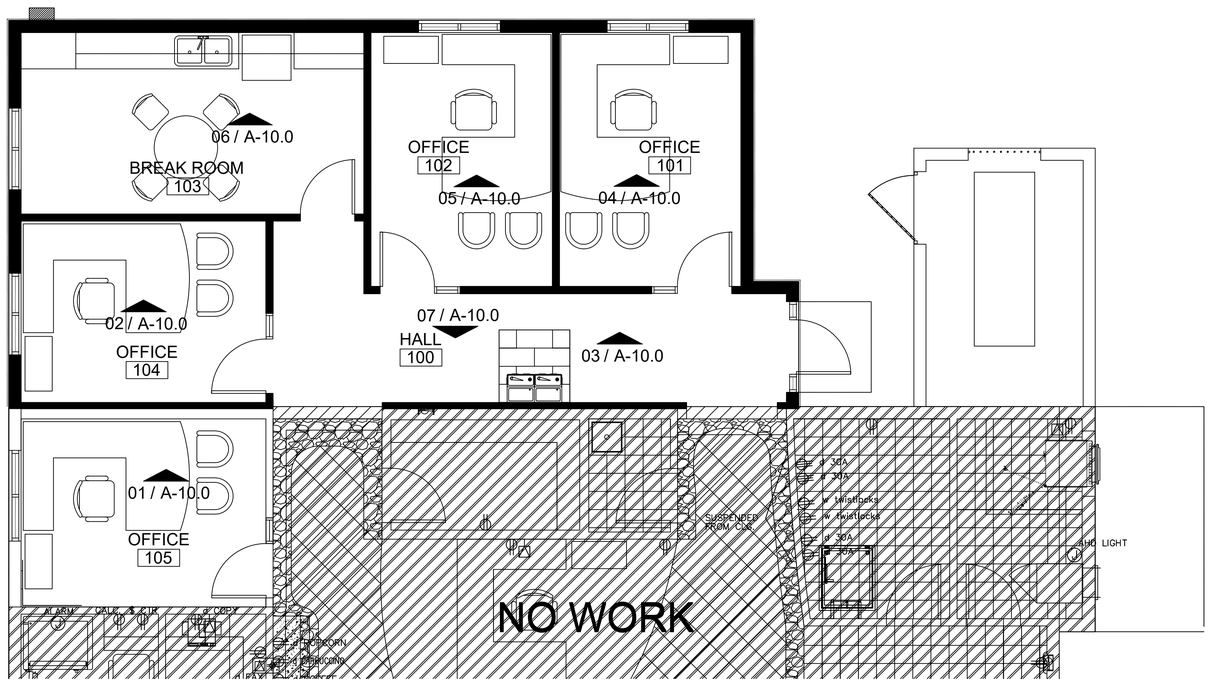
NO.	ROOM	FLOOR	BASE	WALL	WALL	WALL	WALL
100	HALL	CA–1,FT–1	RB–1	PA–1	WT–1/PA–1	PA–1	PA–1
101	OFFICE	CA–1	RB–1	PA–1	PA–1	PA–1	PA–1
102	OFFICE	CA–1	RB–1	PA–1	PA–1	PA–1	PA–1
103	BREAKROOM	LVT–1	RB–1	PA–1	PA–1	PA–1	PA–1
104	OFFICE	CA–1	RB–1	PA–1	PA–1	PA–1	PA–1
105	OFFICE	CA–1	RB–1	PA–1	PA–1	PA–1	PA–1

APPLIANCES

1	Re–install existing breakroom appliances

WINDOW TREATMENTS

1	Install 4 new sets of 2" faux wood blinds to match existing



01 FLOOR PLAN
SCALE: 1/4" = 1'-0"

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ISSUED FOR CONSTRUCTION	12.05.25

REVISIONS

MARK	DESCRIPTION	DATE

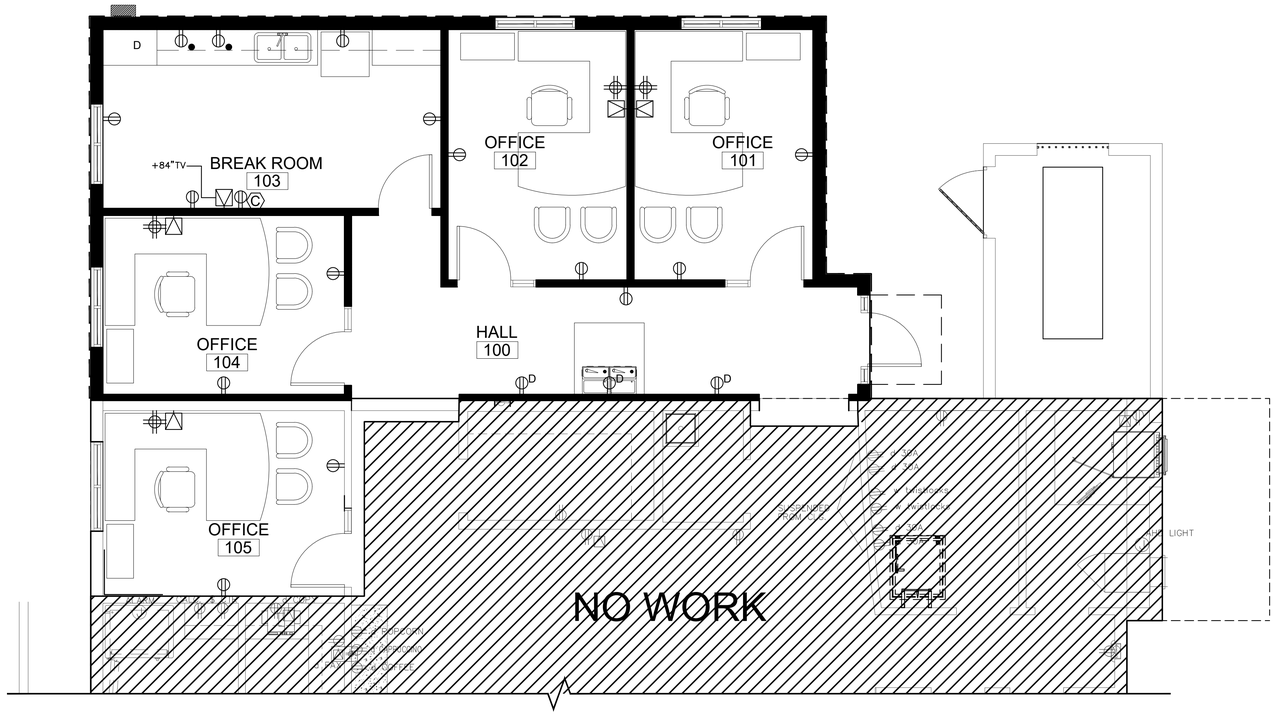
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PRINT DATE Apr 30, 2026 – 4:36pm

REGISTERED ARCHITECT
THOMAS S. BAWER
14288
STATE OF TEXAS
04/30/26

DRAWING TITLE
FINISH FLOOR PLAN

DRAWN BY	PL
CHECKED BY	BL
APPROVED BY	BL
SHEET NO.	A-12.00



01 FLOOR PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. ALL OUTLETS/RECEPTACLES TO BE MOUNTED VERTICALLY @ 15" A.F.F. U.N.O.
2. ALL OUTLETS/RECEPTACLES MOUNTED ABOVE COUNTER HEIGHT TO BE MOUNTED HORIZONTALLY
3. OUTLET/RECEPTACLE PLATE; COLOR: TO BE SELECTED BY INTERIOR DESIGNER

ELECTRICAL LEGEND	
	DUPLEX WALL RECEPTACLE
D	DEDICATED DUPLEX WALL RECEPTACLE
GFCI	DUPLEX WALL RECEPTACLE, GROUND FAULT INTERCEPT
	QUADPLEX WALL RECEPTACLE
	DUPLEX WALL RECEPTACLE MOUNTED ABOVE COUNTER
D	DEDICATED DUPLEX WALL RECEPTACLE MOUNTED ABOVE COUNTER
GFCI	DUPLEX WALL RECEPTACLE, GROUND FAULT INTERCEPT MOUNTED ABOVE COUNTER
	QUADPLEX WALL RECEPTACLE MOUNTED ABOVE COUNTER
	FLOOR BOX WITH QUADPLEX AND RJ-45
	DATA BOX WITH (1) PHONE LINE AND (1) RJ-45
2	DATA BOX WITH (1) PHONE LINE AND (1) RJ-45
SM	SOFFIT MOUNTED WEATHERPROOF DUPLEX RECEPTACLE
WP	EXTERIOR WEATHERPROOF DUPLEX RECEPTACLE
C	CABLE TV
J	JUNCTION BOX

SLI DESIGN, INC.

ARCHITECTURE PLANNING INTERIOR DESIGN

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

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NECHES LUMBERTON OFFICE ADDITION
299 Country Lane at U.S. 69
Lumberton, Texas 77657

PROJECT NUMBER : 8983

ISSUED FOR CLIENT APPROVAL	DATE 04.14.26
ISSUED FOR BIDDING	04.30.26
ISSUED FOR PERMIT	04.30.26
ISSUED FOR CONSTRUCTION	

REVISIONS

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THOMAS B. BARKER
14288
STATE OF TEXAS
04/30/26

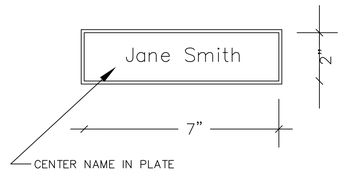
DRAWING TITLE ELECTRICAL PLAN

DRAWN BY	RG	SHEET NO.
CHECKED BY	BL	A-13.00
APPROVED BY	TB	

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WALL MOUNTED NAME PLATE
ON GLASS

Quantity:	4
MFG:	
Frame:	satin silver
Background:	satin silver
Letter:	black, futura
Symbol:	
Braille:	N/A
Mounting:	sticky back to glass window, blank silver plate on back side to hide tape on window
Names:	
Notes:	

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299 Country Lane at U.S. 69
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PROJECT NUMBER : 8983

ISSUED FOR CLIENT APPROVAL	DATE 04.14.26
ISSUED FOR BIDDING	04.30.26
ISSUED FOR PERMIT	04.30.26
ISSUED FOR CONSTRUCTION	12.05.25

REVISIONS

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THOMAS B. BARKER
14288
STATE OF TEXAS
04/30/26

DRAWING TITLE
INTERIOR SIGNAGE

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CHECKED BY	BL
APPROVED BY	BL

SHEET NO.
A-14.00

GENERAL MEP NOTES

COORDINATION

EACH CONTRACTOR SHALL COORDINATE ITS CONSTRUCTION OPERATIONS WITH THOSE OF OTHER CONTRACTORS AND ENTITIES TO ENSURE EFFICIENT AND ORDERLY INSTALLATION OF EACH PART OF THE WORK. EACH CONTRACTOR SHALL COORDINATE ITS OPERATIONS WITH OPERATIONS, INCLUDED IN DIFFERENT SECTIONS, THAT DEPEND ON EACH OTHER FOR PROPER INSTALLATION, CONNECTION, AND OPERATION.

1. SCHEDULE CONSTRUCTION OPERATIONS IN SEQUENCE REQUIRED TO OBTAIN THE BEST RESULTS WHERE INSTALLATION OF ONE PART OF THE WORK DEPENDS ON INSTALLATION OF OTHER COMPONENTS, BEFORE OR AFTER ITS OWN INSTALLATION.
2. COORDINATE INSTALLATION OF DIFFERENT COMPONENTS WITH OTHER CONTRACTORS TO ENSURE MAXIMUM PERFORMANCE AND ACCESSIBILITY FOR REQUIRED MAINTENANCE, SERVICE, AND REPAIR.
3. MAKE ADEQUATE PROVISIONS TO ACCOMMODATE ITEMS SCHEDULED FOR LATER INSTALLATION.
4. VISIT THE SITE PRIOR TO SUBMITTING A BID TO VERIFY THE EXISTING CONDITIONS AND DESIGN CONSTRAINTS. FAILURE TO MEET THIS REQUIREMENT SHALL NOT BE JUSTIFICATION FOR FAULTY INSTALLATION OR ADDITIONAL COSTS.
5. SECURE ALL PERMITS AND INSPECTIONS REQUIRED FOR WORK, AND PAY ALL FEES FOR REQUIRED WORK.
6. COMPLY WITH ALL CURRENT LAWS, BUILDING CODES AND REGULATIONS FEDERAL, STATE AND LOCAL AUTHORITIES HAVING JURISDICTION. IN THE EVENT OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND THE LOCAL AUTHORITY HAVING JURISDICTION, THE LATTER SHALL RULE. ANY CHANGES RESULTING SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR ARCHITECT/ENGINEER. THE CONTRACTOR SHALL REPORT ANY SUCH MODIFICATIONS TO THE ARCHITECT/ENGINEER AND SECURE HIS APPROVAL BEFORE PROCEEDING. SHOULD THE REQUIREMENTS OF THE CONTRACT DOCUMENTS EXCEED THE REQUIREMENTS OF THE CODES, THE CONTRACT DOCUMENTS SHALL GOVERN, PROVIDED THOSE REQUIREMENTS ARE NOT IN CONFLICT WITH THOSE CODES. ALL ITEMS OF EQUIPMENT AND ALL MATERIALS FOR WHICH APPROVAL STANDARDS HAVE BEEN ESTABLISHED BY UNDERWRITERS' LABORATORIES, INC. (UL), FACTORY MUTUAL (FM), AMERICAN STANDARD CODES, ASME, AGA, AMCA, ASA, ANSI, ASHRAE, AND ARI SHALL BE SO APPROVED AND SHALL BEAR APPROVAL LABELS.
7. PENETRATIONS OF WALLS AND FLOORS OF FIRE-RATED ASSEMBLIES SHALL COMPLY WITH NFPA, U.L., AND THE AUTHORITIES HAVING JURISDICTION.
8. IF THE DRAWINGS AND SPECIFICATIONS ARE IN CONFLICT THE GREATER AMOUNT OF WORK SHALL BE PRICED. BRING THE CONFLICT TO THE ATTENTION OF THE ENGINEER AND REQUEST DIRECTION.
9. DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW ALL FITTINGS, COMPONENTS AND OFFSETS, ETC. THE CONTRACTOR SHALL PROVIDE ALL FITTINGS, COMPONENTS, OFFSETS OR OTHER FEATURES REQUIRED FOR THE FULL OPERATIONAL CONDITION OF THIS PROJECT.
10. CONFIRM DIMENSIONS AND LOCATIONS IN THE FIELD, DRAWINGS ARE NOT TO BE SCALED AND ARE NOT INTENDED TO SHOW EXACT LOCATIONS BASED ON SCALING DIMENSIONS.
11. GUARANTEE LABOR AND MATERIALS OF ENTIRE INSTALLATION FOR ONE YEAR. WORK BELOW FLOOR OR OVER CORRIDORS SHALL BE PERFORMED AT THE OWNER'S CONVENIENCE AND MAY BE REQUIRED TO BE DONE DURING EVENINGS AND WEEKENDS. DEMOLITION DAMAGE TO EXISTING MATERIALS/EQUIPMENT WILL BE REPAIRED AT NO ADDITIONAL COST TO OWNER. RE-SUPPORT ANY REMAINING PIPING OR DEVICES THAT WERE SUPPORTED BY WALLS BEING REMOVED.
12. ELECTRONIC COPIES OF CAD DRAWINGS OF THE CONTRACT DRAWINGS WILL NOT BE PROVIDED BY THE ENGINEER FOR CONTRACTOR'S USE IN PREPARING SUBMITTALS OR AS-BUILT DRAWINGS

ACOUSTIC TREATMENT

A. IT IS THE INTENT OF THESE DRAWINGS TO SPECIFY AND FOR THE CONTRACTOR TO INSTALL SYSTEMS THAT ARE QUIET AND FREE OF VIBRATION. EQUIPMENT SHALL BE BALANCED AND VIBRATION ISOLATED TO MEET THE REQUIREMENTS SPECIFIED HEREIN FOR BOTH THE EQUIPMENT ITSELF AND CONDITIONS WITHIN OCCUPIED SPACES. THIS CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND INSTALLING EQUIPMENT THAT IS QUIET IN OPERATION AS COMPARED TO OTHER AVAILABLE EQUIPMENT OF ITS SIZE, CAPACITY, AND TYPE.

B. EQUIPMENT NOT MEETING THESE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR TO AN ACCEPTABLE LEVEL BUT WITHIN THE REQUIREMENTS OF THE SPECIFICATIONS AT NO COST TO THE OWNER, ARCHITECT OR ENGINEER.

C. AIR DISTRIBUTION EQUIPMENT SHALL BE SOUND TESTED AT THE DESIGN OPERATING CONDITIONS AND SHALL NOT EXCEED A MAXIMUM DISCHARGE NC RATING OF 25 OR A RADIATED NC RATING OF 30 AT RATED CFM.

D. UNLESS NOTED OTHERWISE HEREIN OR ON THE DRAWINGS, THE NOISE LEVEL IN ALL OCCUPIED SPACES SHALL NOT EXCEED THE "LOWEST VALUE IN THE RANGE" OF THE NOISE CRITERIA CURVES PUBLISHED IN THE CURRENT FUNDAMENTALS EDITION OF THE ASHRAE GUIDE AND DATA BOOK. THE NOISE CRITERIA CURVES SHALL BE BASED ON ANSI STANDARD S1.6-1967 OCTAVE BANDS AND A SOUND PRESSURE LEVEL IN DECIBELS REFERENCED TO 0.002 MICROBARS. SOUND LEVELS IN OCCUPIED SPACES MUST MEET THE DESIGN CRITERIA WITH ALL CONSTRUCTION IN PLACE.

E. SHOULD A QUESTION ARISE REGARDING THE ACCEPTABLE LEVEL OF NOISE OR VIBRATION IN A PARTICULAR SPACE OR PIECE OF EQUIPMENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE SERVICES OF AN APPROVED ACOUSTICAL CONSULTANT TO DETERMINE ACTUAL NOISE/VIBRATION CONDITIONS.

SUBMITTAL ADMINISTRATIVE REQUIREMENTS

A. ELECTRONIC COPIES OF CAD DRAWINGS OF THE CONTRACT DRAWINGS WILL NOT BE PROVIDED BY THE ENGINEER FOR CONTRACTOR'S USE IN PREPARING SUBMITTALS OR AS-BUILT DRAWINGS.

B. COORDINATE PREPARATION AND PROCESSING OF SUBMITTALS WITH PERFORMANCE OF CONSTRUCTION ACTIVITIES. COORDINATE EACH SUBMITTAL WITH FABRICATION, PURCHASING, TESTING, DELIVERY, OTHER SUBMITTALS, AND RELATED ACTIVITIES THAT REQUIRE SEQUENTIAL ACTIVITY. SUBMIT ALL ITEMS REQUIRED FOR EACH SPECIFICATION SECTION CONCURRENTLY.

C. ALLOW TIME FOR SUBMITTAL REVIEW, INCLUDING TIME FOR RESUBMITTALS, AS FOLLOWS. TIME FOR REVIEW SHALL COMMENCE ON ENGINEER'S RECEIPT OF SUBMITTAL. NO EXTENSION OF THE CONTRACT TIME WILL BE AUTHORIZED BECAUSE OF FAILURE TO TRANSMIT SUBMITTALS ENOUGH IN ADVANCE OF THE WORK TO PERMIT PROCESSING, INCLUDING RESUBMITTALS.

1. INITIAL REVIEW: ALLOW 7 DAYS FOR INITIAL REVIEW OF EACH SUBMITTAL EXCLUSIVE OF TRAVEL TIME. ALLOW ADDITIONAL TIME IF COORDINATION WITH SUBSEQUENT SUBMITTALS IS REQUIRED.
2. RESUBMITTAL REVIEW: ALLOW 7 DAYS FOR REVIEW OF EACH RESUBMITTAL EXCLUSIVE OF TRAVEL TIME.

D. PLACE A PERMANENT LABEL OR TITLE BLOCK ON EACH PAPER COPY SUBMITTAL ITEM FOR IDENTIFICATION. INDICATE NAME OF FIRM OR ENTITY THAT PREPARED EACH SUBMITTAL ON LABEL OR TITLE BLOCK.

E. INCLUDE THE FOLLOWING INFORMATION FOR PROCESSING AND RECORDING ACTION TAKEN:
1. PROJECT NAME.
2. DATE.
3. NAME OF ARCHITECT.
4. NAME OF ENGINEER.
5. NAME OF CONTRACTOR.
6. NAME OF SUBCONTRACTOR.
7. NAME OF SUPPLIER.
8. NAME OF MANUFACTURER.

F. CONTRACTOR'S REVIEW:
REVIEW EACH SUBMITTAL AND CHECK FOR COORDINATION WITH OTHER WORK OF THE CONTRACT AND FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS. NOTE CORRECTIONS AND FIELD DIMENSIONS. MARK WITH APPROVAL STAMP BEFORE SUBMITTING TO ARCHITECT/ENGINEER.
STAMP EACH SUBMITTAL WITH A UNIFORM, APPROVAL STAMP. PROVIDE A STATEMENT CERTIFYING THAT SUBMITTAL HAS BEEN REVIEWED, CHECKED, AND APPROVED FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND THE PHYSICAL SPACE LIMITATIONS AT THE SITE.
PROVIDE A STATEMENT CERTIFYING THAT SUBMITTAL HAS BEEN REVIEWED, CHECKED, AND APPROVED FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND THE PHYSICAL SPACE LIMITATIONS AT THE SITE.

IF THE GENERAL CONTRACTOR IS DEFERRING THE ABOVE REQUIREMENTS TO THE SUBCONTRACTOR, THEN THE SUBCONTRACTOR MUST ALSO REVIEW, STAMP AND CERTIFY THE SUBMITTAL.

G. ENGINEER'S ACTION:
ENGINEER WILL NOT REVIEW SUBMITTALS THAT DO NOT BEAR CONTRACTOR'S APPROVAL STAMP AND WILL RETURN THEM.
ENGINEER WILL REVIEW EACH SUBMITTAL NOTE CORRECTIONS OR MODIFICATIONS REQUIRED, AND RETURN IT. ENGINEER WILL PROVIDE SUBMITTAL WITH AN ACTION SHEET TO INDICATE ACTION.

REQUESTS FOR INFORMATION (RFI)

IMMEDIATELY ON DISCOVERY OF THE NEED FOR ADDITIONAL INFORMATION OR INTERPRETATION OF THE CONTRACT DOCUMENTS, CONTRACTOR SHALL PREPARE AND SUBMIT AN RFI IN THE FORM SPECIFIED.

1. ENGINEER WILL RETURN RFIS SUBMITTED TO ENGINEER BY OTHER ENTITIES CONTROLLED BY CONTRACTOR WITH NO RESPONSE.
2. COORDINATE AND SUBMIT RFIS IN A PROMPT MANNER SO AS TO AVOID DELAYS IN CONTRACTOR'S WORK OR WORK OF SUBCONTRACTORS.
3. INCLUDE A PROPOSED SOLUTION AS WELL AS INCLUDE A DETAILED, LEGIBLE DESCRIPTION OF ITEM NEEDING INFORMATION OR INTERPRETATION. INCLUDE SKETCHES, DESCRIPTIONS, MEASUREMENTS, PHOTOS, PRODUCT DATA, SHOP DRAWINGS, COORDINATION DRAWINGS, AND OTHER INFORMATION NECESSARY TO FULLY DESCRIBE ITEMS NEEDING INTERPRETATION.

RECORD DRAWINGS

A. WITHIN 90 DAYS OF COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER, A COMPLETE SET OF "AS BUILT" DRAWINGS PORTRAYING ACTUAL SITE CONDITIONS OF THE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION WORK. SUBMISSION SHALL CONSIST OF ONE SET OF PAPER SEPIAS AND ONE SET OF CAD FILES IN AUTOCAD 2007 FORMAT. ENGINEER AND ARCHITECT SEALS AND LOGOS SHALL BE REMOVED FROM THE DRAWINGS AND THEY SHALL BE STAMPED "AS-BUILT DRAWINGS".

B. WITHIN 90 DAYS OF COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER, A COMPLETE SET OF "O&M MANUALS", EQUIPMENT DATA, HVAC AIR AND WATER BALANCING REPORT, AND LIGHTING CONTROL TESTING REPORT FOR COMPLIANCE WITH CURRENT ENERGY CODE. THE CONTRACTOR SHALL PROVIDE A WRITTEN CERTIFICATION THAT ALL NEW MATERIALS AND COMPONENTS DO NOT CONTAIN ASBESTOS OR PCBS.

REQUIRED SUBMITTALS

A. PROVIDE FOUR BOUND PRODUCT DATA SUBMITTALS FOR THE NEW EQUIPMENT LISTED BELOW TO THE ARCHITECT/ENGINEER. EACH CONTRACTOR RESPONSIBLE FOR THE WORK SHALL REVIEW AND CERTIFY THE SUBMITTAL DATA TO BE IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND THE PHYSICAL SPACE LIMITATIONS.
1. AIR HANDLING UNITS
2. FAN COIL UNITS
3. AIR DISTRIBUTION DEVICES
4. ELECTRICAL PANELS
5. ELECTRICAL TRANSFORMERS
6. LIGHTING FIXTURES
7. WIRING DEVICES
8. PLUMBING FIXTURES
9. AIR AND WATER BALANCE REPORTS
10. CIRCUIT DIRECTORY CARDS

MECHANICAL AND SERVICE WATER HEATING COMMISSIONING

A. ALL REQUIREMENTS SHALL BE PERFORMED PER THE CURRENTLY ADOPTED ENERGY CONSERVATION CODE IN THE AUTHORITY HAVING JURISDICTION. THE FOLLOWING IS NOT A COMPLETE LISTING.

B. SYSTEMS ADJUSTING AND BALANCING: HVAC SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING STANDARDS. AIR AND WATER FLOW RATES SHALL BE MEASURED AND ADJUSTED TO DELIVER FINAL FLOW RATES WITHIN TOLERANCES PROVIDED IN THE PRODUCT SPECIFICATIONS. TESTING SHALL INCLUDE ALL MODES OF SEQUENCE OF OPERATION, INCLUDING UNDER FULL-LOAD, PART-LOAD AND THE FOLLOWING EMERGENCY CONDITIONS:
1.1. ALL MODES AS DESCRIBED IN THE SEQUENCE OF OPERATION.
1.2. REDUNDANT OR AUTOMATIC BACK-UP MODE.
1.3. PERFORMANCE OF ALARMS.
1.4. MODE OF OPERATION UPON A LOSS OF POWER AND RESTORATION OF POWER.
EXCEPTION: UNITARY OR PACKAGED HVAC EQUIPMENT THAT DO NOT REQUIRE SUPPLY AIR ECONOMIZERS.

F. CONTROLS HVAC AND SERVICE WATER-HEATING CONTROL SYSTEMS SHALL BE TESTED TO DOCUMENT THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT AND SYSTEMS ARE CALIBRATED AND ADJUSTED AND OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. SEQUENCES OF OPERATION SHALL BE FUNCTIONALLY TESTED TO DOCUMENT THEY OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS.

G. ECONOMIZERS. AIR ECONOMIZERS SHALL UNDERGO A FUNCTIONAL TEST TO DETERMINE THAT THEY OPERATE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

LIGHTING SYSTEM FUNCTIONAL TESTING

A. ALL REQUIREMENTS SHALL BE PERFORMED PER THE CURRENTLY ADOPTED ENERGY CONSERVATION CODE IN THE AUTHORITY HAVING JURISDICTION. THE FOLLOWING IS NOT A COMPLETE LISTING.

B. OCCUPANT SENSOR CONTROLS. WHERE OCCUPANT SENSOR CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:
1. CERTIFY THAT THE OCCUPANT SENSOR HAS BEEN LOCATED AND AIMED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
2. FOR PROJECTS WITH SEVEN OR FEWER OCCUPANT SENSORS, EACH SENSOR SHALL BE TESTED.
3. FOR PROJECTS WITH MORE THAN SEVEN OCCUPANT SENSORS, TESTING SHALL BE DONE FOR EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY. WHERE MULTIPLES OF EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY ARE PROVIDED, NOT LESS THAN 10 PERCENT, BUT IN NO CASE LESS THAN ONE, OF EACH COMBINATION SHALL BE TESTED UNLESS THE CODE OFFICIAL OR DESIGN PROFESSIONAL REQUIRES A HIGHER PERCENTAGE TO BE TESTED. WHERE 30 PERCENT OR MORE OF THE TESTED CONTROLS FAIL, ALL REMAINING IDENTICAL COMBINATIONS SHALL BE TESTED. FOR OCCUPANT SENSOR CONTROLS TO BE TESTED, VERIFY THE FOLLOWING:
3.1. WHERE OCCUPANT SENSOR CONTROLS INCLUDE STATUS INDICATORS, VERIFY CORRECT OPERATION.
3.2. THE CONTROLS TURN ON AND TURN OFF OR DOWN TO THE PERMITTED LEVEL WITHIN THE REQUIRED TIME.
3.3. FOR AUTO-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON TO THE PERMITTED LEVEL WHEN AN OCCUPANT ENTERS THE SPACE.
3.4. FOR MANUAL-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON ONLY WHEN MANUALLY ACTIVATED.
3.5. THE LIGHTS ARE NOT INCORRECTLY TURNED ON BY MOVEMENT IN ADJACENT AREAS OR BY HVAC OPERATION.

C. TIME-SWITCH CONTROLS. WHERE TIME-SWITCH CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:
1. CONFIRM THAT THE TIME-SWITCH CONTROL IS PROGRAMMED WITH ACCURATE WEEKDAY, WEEKEND AND HOLIDAY SCHEDULES.
2. PROVIDE DOCUMENTATION TO THE OWNER OF TIMESWITCH CONTROLS PROGRAMMING INCLUDING WEEKDAY, WEEKEND, HOLIDAY SCHEDULES, AND SET-UP AND PREFERENCE PROGRAM SETTINGS.
3. VERIFY THE CORRECT TIME AND DATE IN THE TIME SWITCH.
4. VERIFY THAT ANY BATTERY BACK-UP IS INSTALLED AND ENERGIZED.
5. VERIFY THAT THE OVERRIDE TIME LIMIT IS SET TO NOT MORE THAN 2 HOURS.
6. SIMULATE OCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
6.1. ALL LIGHTS CAN BE TURNED ON AND OFF BY THEIR RESPECTIVE AREA CONTROL SWITCH.
6.2. THE SWITCH ONLY OPERATES LIGHTING IN THE ENCLOSED SPACE IN WHICH THE SWITCH IS LOCATED.
7. SIMULATE UNOCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
7.1. NONEXEMPT LIGHTING TURNS OFF.
7.2. MANUAL OVERRIDE SWITCH ALLOWS ONLY THE LIGHTS IN THE ENCLOSED SPACE WHERE THE OVERRIDE SWITCH IS LOCATED TO TURN ON OR REMAIN ON UNTIL THE NEXT SCHEDULED SHUTOFF OCCURS.
8. ADDITIONAL TESTING AS SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL.

D. DAYLIGHT RESPONSIVE CONTROLS. WHERE DAYLIGHT RESPONSIVE CONTROLS ARE PROVIDED, THE FOLLOWING SHALL BE VERIFIED:
1. CONTROL DEVICES HAVE BEEN PROPERLY LOCATED, FIELD CALIBRATED AND SET FOR ACCURATE SETPOINTS AND THRESHOLD LIGHT LEVELS.
2. DAYLIGHT CONTROLLED LIGHTING LOADS ADJUST TO LIGHT LEVEL SET POINTS IN RESPONSE TO AVAILABLE DAYLIGHT.
3. THE LOCATIONS OF CALIBRATION ADJUSTMENT EQUIPMENT ARE READILY ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.

MECHANICAL SPECIFICATIONS

SINGLE-WALL RECTANGULAR DUCTS AND FITTINGS

A. GENERAL FABRICATION REQUIREMENTS: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE" BASED ON REQUIRED STATIC-PRESSURE CLASS UNLESS OTHERWISE INDICATED.

B. TRANSVERSE JOINTS: SELECT JOINT TYPES AND FABRICATE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE," FIGURE 2–1, "RECTANGULAR DUCT/TRANSVERSE JOINTS," FOR STATIC-PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT-SUPPORT INTERVALS, AND OTHER PROVISIONS IN SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE."

C. LONGITUDINAL SEAMS: SELECT SEAM TYPES AND FABRICATE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE," FIGURE 2–2, "RECTANGULAR DUCT/LONGITUDINAL SEAMS," FOR STATIC-PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT-SUPPORT INTERVALS, AND OTHER PROVISIONS IN SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE."

D. ELBOWS, TRANSITIONS, OFFSETS, BRANCH CONNECTIONS, AND OTHER DUCT CONSTRUCTION: SELECT TYPES AND FABRICATE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE," CHAPTER 4, "FITTINGS AND OTHER CONSTRUCTION," FOR STATIC-PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT-SUPPORT INTERVALS, AND OTHER PROVISIONS IN SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE."

SINGLE-WALL ROUND AND FLAT-OVAL DUCTS AND FITTINGS

A. GENERAL FABRICATION REQUIREMENTS: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE," CHAPTER 3, "ROUND, OVAL, AND FLEXIBLE DUCT," BASED ON INDICATED STATIC-PRESSURE CLASS UNLESS OTHERWISE INDICATED.

B. FLAT-OVAL DUCTS: INDICATED DIMENSIONS ARE THE DUCT WIDTH (MAJOR DIMENSION) AND DIAMETER OF THE ROUND SIDES CONNECTING THE FLAT PORTIONS OF THE DUCT (MINOR DIMENSION).

C. TRANSVERSE JOINTS: SELECT JOINT TYPES AND FABRICATE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE," FIGURE 3–1, "ROUND DUCT TRANSVERSE JOINTS," FOR STATIC-PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT-SUPPORT INTERVALS, AND OTHER PROVISIONS IN SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE."

D. LONGITUDINAL SEAMS: SELECT SEAM TYPES AND FABRICATE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE," FIGURE 3–2, "ROUND DUCT LONGITUDINAL SEAMS," FOR STATIC-PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT-SUPPORT INTERVALS, AND OTHER PROVISIONS IN SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE."

E. TEES AND LATERALS: SELECT TYPES AND FABRICATE ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE," FIGURE 3–5, "90 DEGREE TEES AND LATERALS," AND FIGURE 3–6, "CONICAL TEES," FOR STATIC-PRESSURE CLASS, APPLICABLE SEALING REQUIREMENTS, MATERIALS INVOLVED, DUCT-SUPPORT INTERVALS, AND OTHER PROVISIONS IN SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE."

SHEET METAL DUCTWORK

A. GENERAL MATERIAL REQUIREMENTS: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE" FOR ACCEPTABLE MATERIALS, MATERIAL THICKNESSES, AND DUCT CONSTRUCTION METHODS UNLESS OTHERWISE INDICATED. SHEET METAL MATERIALS SHALL BE FREE OF PITTING, SEAM MARKS, ROLLER MARKS, STAINS, DISCOLORATIONS, AND OTHER IMPERFECTIONS.

B. GALVANIZED SHEET STEEL: COMPLY WITH ASTM A 653/A 653M.

C. SUPPLY AND RETURN DUCTWORK SHALL BE EXTERNALLY INSULATED WITH EXTERNAL BLANKET INSULATION. DUCTWORK SHALL BE INTERNALLY LINED ONLY WHERE SPECIFICALLY INDICATED.

D. DUCTWORK SHALL BE SEALED AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND AS REQUIRED TO LIMIT LEAKAGE. LEAKAGE IN EXCESS OF 5% SHALL NOT BE ACCEPTABLE.

E. DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.

F. THE INTERIOR SURFACE OF ALL DUCTWORK SHALL BE SMOOTH WITH NO SHEETMETAL OR OTHER PARTS PROJECTING INTO THE AIR STREAM. ALL SEAMS AND JOINTS SHALL BE EXTERNAL. THE INSIDE OF ALL DUCTWORK SHALL BE THOROUGHLY CLEANED AND ALL FANS OPERATED TO REMOVE ANY DUST BEFORE THE CONNECTION OF AIR DISTRIBUTION DEVICES.

G. ALL DUCTWORK DIMENSIONS ON THE DRAWINGS ARE CLEAR INSIDE

H. INSTALL ALL DUCTWORK TIGHT TO STRUCTURE UNLESS OTHERWISE NOTED. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES PRIOR TO THE CONSTRUCTION OR INSTALLATION OF DUCTWORK.

I. ALL TRANSVERSE JOINTS SHALL BE SEALED WITH A WATER BASE ADHESIVE SEALER DESIGNED FOR USE IN MEDIUM VELOCITY DUCT SYSTEMS. SEALER SHALL BE EFFECTIVE AGAINST BOTH NEGATIVE AND POSITIVE PRESSURE LOSSES. SEALER SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPED RATING OF 50 OR LESS. APPLY UN-THINNED WITH BRUSH, TROWEL OR CAULKING GUN AS PER THE MANUFACTURER'S RECOMMENDATIONS AND ALLOW TO DRY FOR A MINIMUM OF 48 HOURS BEFORE AIR IS APPLIED TO THE SYSTEM. SEALER SHALL BE DUCT SEALANT #601 AS MANUFACTURED BY HARDCAST, INC., UNI-GRIP AS MANUFACTURED BY UNITED MCGILL, OR AN APPROVED EQUAL.

J. ALL ROUND TAKE-OFFS SHALL BE MADE WITH A DAMPER EXTRACTOR SPIN-IN COLLAR. SPIN-INS SHALL BE INSTALLED WITH THEIR DAMPER AXIS PARALLEL TO AIR FLOW.

K. ALL DUCTWORK SUPPORTS SHALL BE PER TABLE 5-1 OF THE SMACNA MANUAL WITH ALL SUPPORTS DIRECTLY ANCHORED TO THE BUILDING STRUCTURE. SUPPORTS SHALL BE ON MAXIMUM 8'- 0" CENTERS WITH ADDITIONAL SUPPORTS AS REQUIRED TO PREVENT SAGGING.

L. FLEXIBLE DUCT FABRIC CONNECTIONS SHALL BE INSTALLED ON THE INLET AND OUTLET CONNECTIONS TO ALL POWERED AIR MOVING EQUIPMENT WHICH IS NOT CONNECTED WITH FLEXIBLE DUCT. A MINIMUM OF 1" OF SLACK SHALL BE ALLOWED IN ALL FLEXIBLE CONNECTIONS TO INSURE VIBRATION ISOLATION. FLEXIBLE FABRIC SHALL BE A MINIMUM OF 3 INCHES WIDE WITH "ORP-A-LOC" SEAM TO 24 GAUGE GALVANIZED METAL SIDE CONNECTORS A MINIMUM OF 3 INCHES WIDE EACH. FLEXIBLE CONNECTION ARE TO FABRICATED WITH ELGEN "ZIPPERLOC" #ZLN-4 NEOPRENE COATED 30 OZ. FIBERGLASS WITH 24 GAUGE GALVANIZED IRON SIDE CONNECTORS, OR DURO DYNE EXCELON "METAL-FAB" VINYL COATED 22 OZ. NYLON WITH 24 GAUGE GALVANIZED IRON SIDE CONNECTORS OR "APPROVED EQUAL".

M. INSTALL ANNULAR SPLITTER DAMPERS IN BRANCH TAKE-OFFS WHERE SHOWN. SPLITTER DAMPERS SHALL BE MINIMUM 16 GAUGE GALVANIZED SHEET METAL AND SHALL BE 3/4 OF THE WIDTH OF THE SMALLEST TAKE-OFF BUT NO LESS THAN 6" LONG. DAMPERS SHALL HAVE 1/8" OF CLEARANCE TO THE DUCT IN WHICH THEY ARE INSTALLED. SPLITTER DAMPERS SHALL BE CONTROLLED BY ONE OR MORE CONTROL RODS IN ACCORDANCE WITH FIG. 2-5 OF THE SMACNA MANUAL. WHERE SPLITTERS ARE IN CONCEALED INACCESSIBLE LOCATIONS, SUBMIT PROPOSED CONTROL ROD DETAILS FOR APPROVAL.

N. DUCTWORK WHICH IS EXPOSED TO WEATHER SHALL HAVE SOLDERED JOINTS AND SEAMS AND SHALL BE PAINTED WITH A SUITABLE EPOXY COATING.

HVAC FILTRATION AND AIR QUALITY

A. UNO, EACH NEW EQUIPMENT SHALL BE PROVIDED WITH A PRE-FILTER WITH A MINIMUM FILTRATION OF MERV-11. FILTER EFFICIENCY SHALL BE RATED IN ACCORDANCE WITH ASHRAE 52-76. AIRFLOW SHALL NOT BE GREATER THAN 500 FPM.

B. UNO, EACH NEW EQUIPMENT SHALL BE PROVIDED WITH A BI-POLAR IONIZATION DEVICE(S) THAT MUST MEET UL-2998 STANDARD CERTIFICATION (ENVIRONMENTAL CLAIM VALIDATION PROCEDURE (ECVP) FOR ZERO OZONE EMISSIONS FOR AIR CLEANERS). THE DEVICE(S) SHALL BE MOUNTED IN THE DOWN STREAM SUPPLY DUCTWORK OR INSIDE THE EQUIPMENT. UNO, THE POWER TO THE DEVICE(S) SHALL BE COMING FROM THE EQUIPMENT'S POWER SOURCE AND INTERLOCKED WITH THE EQUIPMENT'S OPERATION. THE NUMBER OF THE DEVICES SHALL BE SELECTED AND DESIGNED PER THE MANUFACTURER GUIDELINES TO MEET THE DESIGN AIR FLOW CAPACITY REQUIREMENT AND AREA OF COIL FACE COVERAGE.

FLEXIBLE DUCTWORK

A. FLEXIBLE DUCT SHALL BE USED FOR CONNECTIONS TO AIR DISTRIBUTION DEVICES WHERE SHOWN ON THE DRAWINGS OR SPECIFIED HEREIN. MAXIMUM LENGTH SHALL BE 5'-0" FOR AIR DISTRIBUTION DEVICE CONNECTIONS. WHERE LONGER RUNS ARE REQUIRED, PROVIDE RIGID DUCTWORK.

B. INSULATED FLEXIBLE DUCT SHALL BE A FACTORY FABRICATED ASSEMBLY CONSISTING OF A GALVANIZED STEEL OR SPIRAL ALUMINUM HELIX. STAINLESS INNER LINER SHALL BE COMPOSED OF 3-PLY ALUMINUM FOIL OR HEAVILY COATED FIBERGLASS WITH A MAXIMUM THERMAL CONDUCTANCE OF .23 BTU/HR/SF/°F. THE ASSEMBLY SHALL BE SHEATHED IN A REINFORCED METALIZED VAPOR BARRIER OUTER JACKET.

C. THE FLEXIBLE DUCT ASSEMBLY SHALL BE SUITABLE FOR A MINIMUM OF 6" W.C. WORKING PRESSURE AND SHALL BE LISTED CLASS 1 BY THE UNDERWRITERS LABORATORY AT A FLAME SPREAD OF NOT OVER 25 AND A SMOKE DEVELOPED RATE OF NOT OVER 50. DUCTS SHALL ALSO COMPLY WITH NFPA STANDARD 90A.

D. FLEXIBLE DUCTS SHALL BE SUPPORTED IN SUCH A MANNER TO PREVENT SAGS AND KINKS. BENDS IN ANY LENGTH OF FLEXIBLE DUCT SHALL NOT EXCEED 90° FOR AIR DISTRIBUTION DEVICE CONNECTIONS.

E. ALL JOINTS AND CONNECTIONS SHALL BE MADE WITH 1/2" WIDE STAINLESS STEEL DUCT CLAMPS OR 100% NYLON SELF-LOCKING CLAMPS MANUFACTURED BY PANDUIT CORPORATION OR AN APPROVED EQUAL.

F. IF IT COMPLIES WITH THESE SPECIFICATIONS, FLEXIBLE DUCTWORK OF THE FOLLOWING TYPES WILL BE ACCEPTABLE:
FLEXMASTER TYPE 8M OR AP

PLUMBING SPECIFICATIONS

DOMESTIC WATER PIPING - COPPER TUBE AND FITTINGS

A. HARD COPPER TUBE: ASTM B 88, TYPE L (ASTM B 88M, TYPE B) WATER TUBE, DRAWN TEMPER.
   1. CAST-COPPER SOLDER-JOINT FITTINGS: ASME B16.18, PRESSURE FITTINGS.
   2. WROUGHT-COPPER SOLDER-JOINT FITTINGS: ASME B16.22, WROUGHT-COPPER PRESSURE FITTINGS.
   3. BRONZE FLANGES: ASME B16.24, CLASS 150, WITH SOLDER-JOINT ENDS.
   4. COPPER UNIONS: MSS SP-123, CAST-COPPER-ALLOY, HEXAGONAL-STOCK BODY, WITH BALL-AND-SOCKET, METAL-TO-METAL SEATING SURFACES, AND SOLDER-JOINT OR THREADED ENDS.

B. SOFT COPPER TUBE: ASTM B 88, TYPE K (ASTM B 88M, TYPE A) AND ASTM B 88, TYPE L (ASTM B 88M, TYPE B) WATER TUBE, ANNEALED TEMPER.
   COPPER SOLDER-JOINT FITTINGS: ASME B16.22, WROUGHT-COPPER PRESSURE FITTINGS.
   COPPER PRESSURE-SEAL-JOINT FITTINGS:
   MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
   1. NIBCO INC.
   2. VEGA; PLUMBING AND HEATING SYSTEMS.
   NPS 2 (DN 50) AND SMALLER: WROUGHT-COPPER FITTING WITH EPDM-RUBBER O-RING SEAL IN EACH END.
   NPS 3 AND NPS 4 (DN 80 AND DN 100): CAST-BRONZE OR WROUGHT-COPPER FITTING WITH EPDM-RUBBER O-RING SEAL IN EACH END.

C. DIELECTRIC FITTINGS
   GENERAL REQUIREMENTS: ASSEMBLY OF COPPER ALLOY AND FERROUS MATERIALS WITH SEPARATING NONCONDUCTIVE INSULATING MATERIAL. INCLUDE END CONNECTIONS COMPATIBLE WITH PIPES TO BE JOINED.

D. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF DOMESTIC WATER PIPING. INDICATED LOCATIONS AND ARRANGEMENTS ARE USED TO SIZE PIPE AND CALCULATE FRICTION LOSS, EXPANSION, AND OTHER DESIGN CONSIDERATIONS. INSTALL PIPING AS INDICATED UNLESS DEVIATIONS TO LAYOUT ARE APPROVED ON COORDINATION DRAWINGS.

E. INSTALL COPPER TUBING UNDER BUILDING SLAB ACCORDING TO CDA'S "COPPER TUBE HANDBOOK."

F. INSTALL SHUTOFF VALVE IMMEDIATELY UPSTREAM OF EACH DIELECTRIC FITTING.

G. INSTALL DOMESTIC WATER PIPING LEVEL WITH 0.125 PERCENT SLOPE DOWNWARD TOWARD DRAIN AND PLUMB.

H. INSTALL PIPING CONCEALED FROM VIEW AND PROTECTED FROM PHYSICAL CONTACT BY BUILDING OCCUPANTS UNLESS OTHERWISE INDICATED AND EXCEPT IN EQUIPMENT ROOMS AND SERVICE AREAS.

I. INSTALL PIPING INDICATED TO BE EXPOSED AND PIPING IN EQUIPMENT ROOMS AND SERVICE AREAS AT RIGHT ANGLES OR PARALLEL TO BUILDING WALLS. DIAGONAL RUNS ARE PROHIBITED UNLESS SPECIFICALLY INDICATED OTHERWISE.

J. INSTALL PIPING ABOVE ACCESSIBLE CEILINGS TO ALLOW SUFFICIENT SPACE FOR CEILING PANEL REMOVAL, AND COORDINATE WITH OTHER SERVICES OCCUPYING THAT SPACE.

K. INSTALL PIPING ADJACENT TO EQUIPMENT AND SPECIALTIES TO ALLOW SERVICE AND MAINTENANCE.

L. INSTALL PIPING TO PERMIT VALVE SERVICING.

M. INSTALL NIPPLES, UNIONS, SPECIAL FITTINGS, AND VALVES WITH PRESSURE RATINGS THE SAME AS OR HIGHER THAN SYSTEM PRESSURE RATING USED IN APPLICATIONS BELOW UNLESS OTHERWISE INDICATED.

N. INSTALL PIPING FREE OF SAGS AND BENDS.

O. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS.

P. INSTALL UNIONS IN COPPER TUBING AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT, MACHINE, AND SPECIALTY.

Q. INSTALL SLEEVES FOR PIPING PENETRATIONS OF WALLS, CEILINGS, AND FLOORS.

R. INSTALL ESCUTCHEONS FOR PIPING PENETRATIONS OF WALLS, CEILINGS, AND FLOORS.

S. INSTALL SHUTOFF VALVE CLOSE TO WATER MAIN ON EACH BRANCH AND RISER SERVING PLUMBING FIXTURES OR EQUIPMENT, ON EACH WATER SUPPLY TO EQUIPMENT, AND ON EACH WATER SUPPLY TO PLUMBING FIXTURES THAT DO NOT HAVE SUPPLY STOPS. USE BALL VALVES FOR PIPING NPS 2 (DN 50) AND SMALLER. USE GATE VALVES FOR PIPING NPS 2-1/2 (DN 65) AND LARGER.

T. HANGER AND SUPPORT INSTALLATION: SUPPORT VERTICAL PIPING AND TUBING AT BASE AND AT EACH FLOOR.

U. ROD DIAMETER MAY BE REDUCED ONE SIZE FOR DOUBLE-ROD HANGERS, TO A MINIMUM OF 3/8 INCH (10 MM).

V. INSTALL HANGERS FOR COPPER TUBING WITH THE FOLLOWING MAXIMUM HORIZONTAL SPACING AND MINIMUM ROD DIAMETERS:
   1. NPS 3/4 (DN 20) AND SMALLER: 60 INCHES (1500 MM) WITH 3/8-INCH (10-MM) ROD.
   2. NPS 1 AND NPS 1-1/4 (DN 25 AND DN 32): 72 INCHES (1800 MM) WITH 3/8-INCH (10-MM) ROD.
   3. NPS 1-1/2 AND NPS 2 (DN 40 AND DN 50): 96 INCHES (2400 MM) WITH 3/8-INCH (10-MM) ROD.
   4. NPS 2-1/2 (DN 65): 108 INCHES (2700 MM) WITH 1/2-INCH (13-MM) ROD.
   5. NPS 3 TO NPS 5 (DN 80 TO DN 125): 10 FEET (3 M) WITH 1/2-INCH (13-MM) ROD.
   6. NPS 6 (DN 150): 10 FEET (3 M) WITH 5/8-INCH (16-MM) ROD.
   7. NPS 8 (DN 200): 10 FEET (3 M) WITH 3/4-INCH (19-MM) ROD.

W. INSTALL SUPPORTS FOR VERTICAL COPPER TUBING EVERY 10 FEET (3 M).

X. FIELD QUALITY CONTROL: PERFORM TESTS AND INSPECTIONS.
   PIPING INSPECTIONS:
   1. DO NOT ENCLOSE, COVER, OR PUT PIPING INTO OPERATION UNTIL IT HAS BEEN INSPECTED AND APPROVED BY AUTHORITIES HAVING JURISDICTION.
   2. DURING INSTALLATION, NOTIFY AUTHORITIES HAVING JURISDICTION AT LEAST ONE DAY BEFORE INSPECTION MUST BE MADE. PERFORM TESTS SPECIFIED BELOW IN PRESENCE OF AUTHORITIES HAVING JURISDICTION:
   3. ROUGHING-IN INSPECTION: ARRANGE FOR INSPECTION OF PIPING BEFORE CONCEALING OR CLOSING-IN AFTER ROUGHING-IN AND BEFORE SETTING FIXTURES.
   4. FINAL INSPECTION: ARRANGE FINAL INSPECTION FOR AUTHORITIES HAVING JURISDICTION TO OBSERVE TESTS SPECIFIED BELOW AND TO ENSURE COMPLIANCE WITH REQUIREMENTS.
   5. REINSPECTION: IF AUTHORITIES HAVING JURISDICTION FIND THAT PIPING WILL NOT PASS TESTS OR INSPECTIONS, MAKE REQUIRED CORRECTIONS AND ARRANGE FOR REINSPECTION.
   6. REPORTS: PREPARE INSPECTION REPORTS AND HAVE THEM SIGNED BY AUTHORITIES HAVING JURISDICTION.

Y. PIPING TESTS:
   1. FILL DOMESTIC WATER PIPING. CHECK COMPONENTS TO DETERMINE THAT THEY ARE NOT AIR BOUND AND THAT PIPING IS FULL OF WATER.
   2. TEST FOR LEAKS AND DEFECTS IN NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED. IF TESTING IS PERFORMED IN SEGMENTS, SUBMIT A SEPARATE REPORT FOR EACH TEST, COMPLETE WITH DIAGRAM OF PORTION OF PIPING TESTED.
   3. LEAVE NEW, ALTERED, EXTENDED, OR REPLACED DOMESTIC WATER PIPING UNCOVERED AND UNCONCEALED UNTIL IT HAS BEEN TESTED AND APPROVED. EXPOSE WORK THAT WAS COVERED OR CONCEALED BEFORE IT WAS TESTED.
   4. CAP AND SUBJECT PIPING TO STATIC WATER PRESSURE OF 50 PSIG (345 KPA) ABOVE OPERATING PRESSURE, WITHOUT EXCEEDING PRESSURE RATING OF PIPING SYSTEM MATERIALS. ISOLATE TEST SOURCE AND ALLOW TO STAND FOR FOUR HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED.
   5. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST PIPING OR PORTION THEREOF UNTIL SATISFACTORY RESULTS ARE OBTAINED.
   6. PREPARE REPORTS FOR TESTS AND FOR CORRECTIVE ACTION REQUIRED.

Z. DOMESTIC WATER PIPING WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS.

AA. PREPARE TEST AND INSPECTION REPORTS.

AB. CLEAN AND DISINFECT POTABLE AND NON-POTABLE DOMESTIC WATER PIPING AS FOLLOWS:

AC. PURGE NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED BEFORE USING.

AD. USE PURGING AND DISINFECTING PROCEDURES PRESCRIBED BY AUTHORITIES HAVING JURISDICTION; IF METHODS ARE NOT PRESCRIBED, USE PROCEDURES DESCRIBED IN EITHER AWWA C651 OR AWWA C652 OR IT'LLOW PROCEDURES DESCRIBED BELOW:
   1. FLUSH PIPING SYSTEM WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT OUTLETS.
   2. FLUSH SYSTEM WITH CLEAN, POTABLE WATER UNTIL NO CHLORINE IS IN WATER COMING FROM SYSTEM AFTER THE STANDING TIME.
   3. SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION. REPEAT PROCEDURES IF BIOLOGICAL EXAMINATION SHOWS CONTAMINATION.

AE. UNDER-BUILDING-SLAB, DOMESTIC WATER PIPING, NPS 2 (DN 50) AND SMALLER, SHALL BE THE FOLLOWING:
   1. SOFT COPPER TUBE, ASTM B 88, TYPE L (ASTM B 88M, TYPE B); WROUGHT-COPPER SOLDER-JOINT FITTINGS; AND BRAZED JOINTS.

AF. ABOVEGROUND DOMESTIC WATER PIPING, NPS 2 (DN 50) AND SMALLER, SHALL BE THE FOLLOWING:
   1. HARD COPPER TUBE, ASTM B 88, TYPE L (ASTM B 88M, TYPE B); WROUGHT-COPPER SOLDER-JOINT FITTINGS; AND SOLDERED JOINTS.
   2. COOPER PRESS FITTINGS: AT THE CONTRACTOR'S OPTION ON THE DOMESTIC HOT AND COLD WATER PIPING, COOLING COIL CONDENSATE DRAINS IN COPPER LINES 1/2" DIAMETER THROUGH 2-1/2" DIAMETER MECHANICAL PRESS (PRO-PRESS) JOINTS AND FITTINGS INCLUDING THE SMART CONNECTION FEATURE OPTION TO ENSURE THAT UNPRESSED FITTING WILL EASILY AND RELIABLY DETECTED DURING PRESSURE TESTING AS MANUFACTURER BY VEGA, NIBCO AND APOLLO PRESS WILL BE ACCEPTABLE. PROVIDED THE FITTING MANUFACTURER'S RECOMMENDED CRIMPING TOOL WITH PROPERLY SIZED REPLACEABLE JAWS ARE UTILIZED RIGID TOOL COMPANY. INSTALLATION WILL BE IN ACCORDANCE WITH MANUFACTURER'S APPROVED PUBLISHED GUIDELINES.

AG. ABOVEGROUND DOMESTIC WATER PIPING, NPS 2-1/2 TO NPS 4 (DN 65 TO DN 100), SHALL BE OF THE FOLLOWING:
   1. HARD COPPER TUBE, ASTM B 88, TYPE L (ASTM B 88M, TYPE B); CAST-COPPER SOLDER-JOINT FITTINGS; AND SOLDERED JOINTS.
   2. GALVANIZED-STEEL PIPE; GROOVED-JOINT, GALVANIZED-STEEL-PIPE APPURTENANCES; AND GROOVED JOINTS.

AH. DRAWINGS INDICATE VALVE TYPES TO BE USED. WHERE SPECIFIC VALVE TYPES ARE NOT INDICATED, THE FOLLOWING REQUIREMENTS APPLY:
   1. SHUTOFF DUTY: USE BALL VALVES FOR PIPING NPS 2 (DN 50) AND SMALLER. USE GATE VALVES WITH FLANGED ENDS FOR PIPING NPS 2-1/2 (DN 65) AND LARGER.
   2. THROTTLING DUTY: USE BALL VALVES FOR PIPING NPS 2 (DN 50) AND SMALLER. USE BALL VALVES WITH FLANGED ENDS FOR PIPING NPS 2-1/2 (DN 65) AND LARGER.
   3. HOT-WATER CIRCULATION PIPING, BALANCING DUTY: CALIBRATED BALANCING VALVES.
   4. DRAIN DUTY: HOSE-END DRAIN VALVES.

AI. USE CHECK VALVES TO MAINTAIN CORRECT DIRECTION OF DOMESTIC WATER FLOW TO AND FROM EQUIPMENT.

AJ. IRON GROOVED-END VALVES MAY BE USED WITH GROOVED-END PIPING.

AK. WATER HAMMER ARRESTERS
   1. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
      A. AMTROL, INC.
      B. JOSAM COMPANY.
      C. MIFAB, INC.
      D. PPP INC.
      E. SIOUX CHIEF MANUFACTURING COMPANY, INC.
      F. SMITH, JAY R. MFG. CO.; DIVISION OF SMITH INDUSTRIES, INC.
      G. TYLER PIPE; WADE DIV.
      H. WATTS DRAINAGE PRODUCTS INC.
   2. STANDARD: ASSE 101 OR PDI-WH 201.
   3. TYPE: COPPER SIZE WITH PISTON.
   4. SIZE: NPS 1010, SIZES AA AND A THROUGH F OR PDI-WH 201, SIZES A THROUGH F.

   INSTALL WATER HAMMER ARRESTERS IN WATER PIPING ACCORDING TO PDI-WH 201.

   INSTALL AIR VENTS AT HIGH PINTS OF WATER PIPING. INSTALL DRAIN PIPING AND DISCHARGE ONTO FLOOR DRAIN.

SANITARY WASTE AND STORM PIPING

A. HUB-AND-SPIGOT, CAST-IRON SOIL PIPE AND FITTINGS
   PIPE AND FITTINGS: ASTM A 74, SERVICE CLASS(ES).
   GASKETS: ASTM C 564, RUBBER.

B. HUBLESS, CAST-IRON SOIL PIPE AND FITTINGS
   PIPE AND FITTINGS: ASTM A 888 OR CISPI 301.
   SOVENT STACK FITTINGS: ASSE 1043 AND CSA B70 ASSE 1043, HUBLESS, CAST-IRON AERATOR AND DEAERATOR DRAINAGE FITTINGS.
   CISPI, HUBLESS-PIPING COUPLINGS:
   MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
   1. ANACO-HUSKY, SD-4000.
   2. MIFAB, INC.
   3. MISSION RUBBER COMPANY; A DIVISION OF MCP INDUSTRIES, INC.
   4. CLAMP-ALL CORP.
   5. STANDARDS: ASTM C 1277 AND CISPI 310.
   6. DESCRIPTION: STAINLESS-STEEL CORRUGATED SHIELD WITH STAINLESS-STEEL BANDS AND TIGHTENING DEVICES; AND ASTM C 564, RUBBER SLEEVE WITH INTEGRAL, CENTER PIPE STOP.

C. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF PIPING SYSTEMS. INDICATED LOCATIONS AND ARRANGEMENTS WERE USED TO SIZE PIPE AND CALCULATE FRICTION LOSS, EXPANSION, PUMP SIZING, AND OTHER DESIGN CONSIDERATIONS. INSTALL PIPING AS INDICATED UNLESS DEVIATIONS TO LAYOUT ARE APPROVED ON COORDINATION DRAWINGS.

D. INSTALL PIPING CONCEALED FROM VIEW AND PROTECTED FROM PHYSICAL CONTACT BY BUILDING OCCUPANTS UNLESS OTHERWISE INDICATED AND EXCEPT IN EQUIPMENT ROOMS AND SERVICE AREAS.

E. INSTALL PIPING INDICATED TO BE EXPOSED AND PIPING IN EQUIPMENT ROOMS AND SERVICE AREAS AT RIGHT ANGLES OR PARALLEL TO BUILDING WALLS. DIAGONAL RUNS ARE PROHIBITED UNLESS SPECIFICALLY INDICATED OTHERWISE.

F. INSTALL PIPING ABOVE ACCESSIBLE CEILINGS TO ALLOW SUFFICIENT SPACE FOR CEILING PANEL REMOVAL.

G. INSTALL PIPING TO PERMIT VALVE SERVICING.

H. INSTALL PIPING AT INDICATED SLOPES.

I. INSTALL PIPING FREE OF SAGS AND BENDS.

J. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS.

K. INSTALL PIPING TO ALLOW APPLICATION OF INSULATION.

L. MAKE CHANGES IN DIRECTION FOR SOIL AND WASTE DRAINAGE AND VENT PIPING USING APPROPRIATE BRANCHES, BENDS, AND LONG-SWEEP BENDS. SANITARY TEES AND SHORT-SWEEP 1/4 BENDS MAY BE USED ON VERTICAL STACKS IF CHANGE IN DIRECTION OF FLOW IS FROM HORIZONTAL TO VERTICAL. USE LONG-TURN, DOUBLE Y-BRANCH AND 1/8-BEND FITTINGS IF TWO FIXTURES ARE INSTALLED BACK TO BACK OR SIDE BY SIDE WITH COMMON DRAIN PIPE. STRAIGHT TEES, ELBOWS, AND SANITARY TEES ARE NOT ALLOWED ON VENT LINES. DO NOT CHANGE DIRECTION OF FLOW MORE THAN 90 DEGREES. USE PROPER SIZE OF STANDARD FITTINGS. USE REDUCING FITTINGS OR REDUCERS IF PIPES OF DIFFERENT SIZES ARE CONNECTED. REDUCING SIZE OF DRAINAGE PIPING IN DIRECTION OF FLOW IS PROHIBITED.

M. LAY BURIED BUILDING DRAINAGE PIPING BEGINNING AT LOW POINT OF EACH SYSTEM. INSTALL TRUE TO GRADES AND ALIGNMENT INDICATED, WITH UNBROKEN CONTINUITY OF INVERT. PLACE HUB ENDS OF PIPING UPSTREAM. INSTALL REQUIRED GASKETS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR USE OF LUBRICANTS, CEMENTS, AND OTHER INSTALLATION REQUIREMENTS. MAINTAIN SWAB IN PIPING AND PULL PAST EACH JOINT AS COMPLETED.

N. INSTALL SOIL AND WASTE DRAINAGE AND VENT PIPING AT THE FOLLOWING MINIMUM SLOPES UNLESS OTHERWISE INDICATED:
   1. BUILDING SANITARY DRAIN: 2 PERCENT DOWNWARD IN DIRECTION OF FLOW FOR PIPING NPS 3 (DN 80) AND SMALLER; 1 PERCENT DOWNWARD IN DIRECTION OF FLOW FOR PIPING NPS 4 (DN 100) AND LARGER.
   2. HORIZONTAL SANITARY DRAINAGE PIPING: 1 PERCENT DOWNWARD IN DIRECTION OF FLOW.
   3. VENT PIPING: 1 PERCENT DOWN TOWARD VERTICAL FIXTURE VENT OR TOWARD VENT STACK.

O. INSTALL CAST-IRON SOIL PIPING ACCORDING TO CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK," CHAPTER IV, "INSTALLATION OF CAST IRON SOIL PIPE AND FITTINGS."
   1. INSTALL ENCASEMENT ON UNDERGROUND PIPING ACCORDING TO ASTM A 674 OR AWWA C105/A 21.5.

P. DO NOT ENCLOSE, COVER, OR PUT PIPING INTO OPERATION UNTIL IT IS INSPECTED AND APPROVED BY AUTHORITIES HAVING JURISDICTION.

Q. INSTALL SLEEVES FOR PIPING PENETRATIONS OF WALLS, CEILINGS, AND FLOORS.

R. INSTALL ESCUTCHEONS FOR PIPING PENETRATIONS OF WALLS, CEILINGS, AND FLOORS.

S. HANGER AND SUPPORT INSTALLATION
   COMPLY WITH REQUIREMENTS FOR PIPE HANGERS AND SUPPORT DEVICES AND INSTALLATION.
   1. INSTALL CARBON-STEEL PIPE HANGERS FOR HORIZONTAL PIPING IN NONCORROSIVE ENVIRONMENTS.
   2. INSTALL STAINLESS-STEEL PIPE HANGERS FOR HORIZONTAL PIPING IN CORROSIVE ENVIRONMENTS.
   3. INSTALL CARBON-STEEL PIPE SUPPORT CLAMPS FOR VERTICAL PIPING IN NONCORROSIVE ENVIRONMENTS.
   4. INSTALL STAINLESS-STEEL PIPE SUPPORT CLAMPS FOR VERTICAL PIPING IN CORROSIVE ENVIRONMENTS.
   5. VERTICAL PIPING: MSS TYPE 8 OR TYPE 42, CLAMPS.
   6. INSTALL INDIVIDUAL, STRAIGHT, HORIZONTAL PIPING RUNS:
   7. 100 FEET (30 M) AND LESS: MSS TYPE 1, ADJUSTABLE, STEEL CLEVIS HANGERS.
   8. LONGER THAN 100 FEET (30 M): MSS TYPE 43, ADJUSTABLE ROLLER HANGERS.
   9. LONGER THAN 100 FEET (30 M) IF INDICATED: MSS TYPE 49, SPRING CUSHION ROLLS.
   10. MULTIPLE, STRAIGHT, HORIZONTAL PIPING RUNS 100 FEET (30 M) OR LONGER: MSS TYPE 44, PIPE ROLLS. SUPPORT PIPE ROLLS ON TRAPEZE.
   11. BASE OF VERTICAL PIPING: MSS TYPE 52, SPRING HANGERS.

T. SUPPORT HORIZONTAL PIPING AND TUBING WITHIN 12 INCHES (300 MM) OF EACH FITTING, VALVE, AND COUPLING.

U. SUPPORT VERTICAL PIPING AND TUBING AT BASE AND AT EACH FLOOR.

V. ROD DIAMETER MAY BE REDUCED ONE SIZE FOR DOUBLE-ROD HANGERS, WITH 3/8-INCH (10-MM) MINIMUM RODS.

W. INSTALL HANGERS FOR CAST-IRON SOIL PIPING WITH THE FOLLOWING MAXIMUM HORIZONTAL SPACING AND MINIMUM ROD DIAMETERS:
   1. NPS 1-1/2 AND NPS 2 (DN 40 AND DN 50): 60 INCHES (1500 MM) WITH 3/8-INCH (10-MM) ROD.
   2. NPS 3 (DN 80): 60 INCHES (1500 MM) WITH 1/2-INCH (13-MM) ROD.
   3. NPS 4 AND NPS 5 (DN 100 AND DN 125): 60 INCHES (1500 MM) WITH 5/8-INCH (16-MM) ROD.
   4. NPS 6 AND NPS 8 (DN 150 AND DN 200): 60 INCHES (1500 MM) WITH 3/4-INCH (19-MM) ROD.
   5. INSTALL SUPPORTS FOR VERTICAL CAST-IRON SOIL PIPING EVERY 15 FEET (4.5 M).

X. DURING INSTALLATION, NOTIFY AUTHORITIES HAVING JURISDICTION AT LEAST 24 HOURS BEFORE INSPECTION MUST BE MADE. PERFORM TESTS SPECIFIED BELOW IN PRESENCE OF AUTHORITIES HAVING JURISDICTION.
   ROUGHING-IN INSPECTION: ARRANGE FOR INSPECTION OF PIPING BEFORE CONCEALING OR CLOSING-IN AFTER ROUGHING-IN AND BEFORE SETTING FIXTURES.
   FINAL INSPECTION: ARRANGE FOR FINAL INSPECTION BY AUTHORITIES HAVING JURISDICTION TO OBSERVE TESTS SPECIFIED BELOW AND TO ENSURE COMPLIANCE WITH REQUIREMENTS.

Y. REINSPECTION: IF AUTHORITIES HAVING JURISDICTION FIND THAT PIPING WILL NOT PASS TEST OR INSPECTION, MAKE REQUIRED CORRECTIONS AND ARRANGE FOR REINSPECTION.

Z. REPORTS: PREPARE INSPECTION REPORTS AND HAVE THEM SIGNED BY AUTHORITIES HAVING JURISDICTION.

AA. TEST SANITARY DRAINAGE AND VENT PIPING ACCORDING TO PROCEDURES OF AUTHORITIES HAVING JURISDICTION OR, IN ABSENCE OF PUBLISHED PROCEDURES, AS FOLLOWS:
   1. TEST FOR LEAKS AND DEFECTS IN NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED. IF TESTING IS PERFORMED IN SEGMENTS, SUBMIT SEPARATE REPORT FOR EACH TEST, COMPLETE WITH DIAGRAM OF PORTION OF PIPING TESTED.
   2. LEAVE UNCOVERED AND UNCONCEALED NEW, ALTERED, EXTENDED, OR REPLACED DRAINAGE AND VENT PIPING UNTIL IT HAS BEEN TESTED AND APPROVED. EXPOSE WORK THAT WAS COVERED OR CONCEALED BEFORE IT WAS TESTED.
   3. ROUGHING-IN PLUMBING TEST PROCEDURE: TEST DRAINAGE AND VENT PIPING EXCEPT OUTSIDE LEADERS ON COMPLETION OF ROUGHING-IN. CLOSE OPENINGS IN PIPING SYSTEM AND FILL WITH WATER TO POINT OF OVERFLOW, BUT NOT LESS THAN 10-FOOT HEAD OF WATER (30 KPA). FROM 15 MINUTES BEFORE INSPECTION STARTS TO COMPLETION OF INSPECTION, WATER LEVEL MUST NOT DROP. INSPECT JOINTS FOR LEAKS.
   4. FINISHED PLUMBING TEST PROCEDURE: AFTER PLUMBING FIXTURES HAVE BEEN SET AND TRAPS FILLED WITH WATER, TEST CONNECTIONS AND PROVE THEY ARE GASTIGHT AND WATERTIGHT. PLUG VENT-STACK OPENINGS ON ROOF AND BUILDING DRAINS WHERE THEY LEAVE BUILDING. INTRODUCE AIR INTO PIPING SYSTEM EQUAL TO PRESSURE OF 1-INCH WG (250 PA). USE U-TUBE OR MANOMETER INSERTED IN TRAP OF WATER CLOSET TO MEASURE THIS PRESSURE. AIR PRESSURE MUST REMAIN CONSTANT WITHOUT ADDITION OR REDUCTION FOR THROUGHOUT PERIOD OF INSPECTION. INSPECT PLUMBING FIXTURE CONNECTIONS FOR GAS AND WATER LEAKS.
   5. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST PIPING, OR PORTION THEREOF, UNTIL SATISFACTORY RESULTS ARE OBTAINED.

AB. CAP AND SUBJECT PIPING TO STATIC-WATER PRESSURE OF 50 PSIG (345 KPA) ABOVE OPERATING PRESSURE, WITHOUT EXCEEDING PRESSURE RATING OF PIPING SYSTEM MATERIALS. ISOLATE TEST SOURCE AND ALLOW TO STAND FOR FOUR HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED.

AC. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST PIPING, OR PORTION THEREOF, UNTIL SATISFACTORY RESULTS ARE OBTAINED.

AD. PREPARE REPORTS FOR TESTS AND REQUIRED CORRECTIVE ACTION.

AF. ABOVEGROUND, SOIL AND WASTE PIPING 6" AND SMALLER SHALL BE ANY OF THE FOLLOWING:
   1. SERVICE CLASS, CAST-IRON SOIL PIPE AND FITTINGS; GASKETS; AND GASKETED JOINTS.
   2. HUBLESS, CAST-IRON SOIL PIPE AND FITTINGS HEAVY-DUTY HUBLESS-PIPING COUPLINGS; AND COUPLED JOINTS.

AG. ABOVEGROUND, SOIL AND WASTE PIPING 8" AND LARGER SHALL BE ANY OF THE FOLLOWING:
   1. SERVICE WEIGHT(SV) HUB AND SPIGOT CAST IRON SOIL PIPE FITTINGS

AH. ABOVEGROUND, VENT PIPING 6" AND SMALLER SHALL BE ANY OF THE FOLLOWING:
   1. HUBLESS, CAST-IRON SOIL PIPE AND FITTINGS; CISPI HUBLESS-PIPING COUPLINGS; AND COUPLED JOINTS.

AI. ABOVEGROUND, VENT PIPING 8" AND LARGER SHALL BE ANY OF THE FOLLOWING:
   1. SERVICE CLASS, CAST-IRON SOIL PIPE AND FITTINGS; GASKETS; AND GASKETED JOINTS.

AJ. UNDERGROUND, SOIL, WASTE, AND VENT PIPING 15" AND SMALLER SHALL BE ANY OF THE FOLLOWING:
   1. SERVICE CLASS, CAST-IRON SOIL PIPE AND FITTINGS; GASKETS; AND GASKETED JOINTS
   2. SOLID WALL PVC PIPE, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS

CLEANOUTS

A. EXPOSED METAL CLEANOUTS:
   MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
   1. JOSAM COMPANY; JOSAM DIV.
   2. MIFAB, INC.
   3. SMITH, JAY R. MFG. CO.; DIVISION OF SMITH INDUSTRIES, INC.
   4. TYLER PIPE; WADE DIV.
   5. ZURN PLUMBING PRODUCTS GROUP; SPECIFICATION DRAINAGE OPERATION.
   STANDARD: ASME A112.36.2M FOR CAST IRON FOR CLEANOUT TEST TEE.
   SIZE: SAME AS CONNECTED DRAINAGE PIPING
   BODY MATERIAL: HUB-AND-SPIGOT, CAST-IRON SOIL PIPE T-BRANCH AS REQUIRED TO MATCH CONNECTED PIPING.
   CLOSURE: COUNTERSUNK PLUG.
   CLOSURE PLUG SIZE: SAME AS OR NOT MORE THAN ONE SIZE SMALLER THAN CLEANOUT SIZE.
   CLOSURE: STAINLESS-STEEL PLUG WITH SEAL.

B. METAL FLOOR CLEANOUTS:
   MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
   1. JOSAM COMPANY; JOSAM DIV.
   2. SMITH, JAY R. MFG. CO.; DIVISION OF SMITH INDUSTRIES, INC.
   3. TYLER PIPE; WADE DIV.
   4. A. MIFAB, INC.
   STANDARD: ASME A112.36.2M FOR THREADED, ADJUSTABLE HOUSING CLEANOUT.
   SIZE: SAME AS CONNECTED BRANCH.
   TYPE: ADJUSTABLE HOUSING THREADED, ADJUSTABLE HOUSING.
   BODY OR FERRULE: CAST IRON.
   CLAMPING DEVICE: NOT REQUIRED.
   OUTLET CONNECTION: THREADED.
   CLOSURE: BRASS PLUG WITH STRAIGHT THREADS AND GASKET.
   ADJUSTABLE HOUSING MATERIAL: CAST IRON WITH SET-SCREWS OR OTHER DEVICE.
   FRAME AND COVER MATERIAL AND FINISH: ROUGH BRONZE.
   FRAME AND COVER SHAPE: ROUND.
   TOP LOADING CLASSIFICATION: LIGHT DUTY.
   RISER: ASTM A74, SERVICE CLASS, CAST-IRON DRAINAGE PIPE FITTING AND RISER TO CLEANOUT.
   STANDARD: ASME A112.3.1.
   SIZE: SAME AS CONNECTED BRANCH.
   HOUSING: STAINLESS STEEL.
   CLOSURE: STAINLESS STEEL WITH SEAL.
   RISER: STAINLESS-STEEL DRAINAGE PIPE FITTING TO CLEANOUT.

C. CAST-IRON WALL CLEANOUTS:
   MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
   1. JOSAM COMPANY; JOSAM DIV.
   2. MIFAB, INC.
   3. SMITH, JAY R. MFG. CO.; DIVISION OF SMITH INDUSTRIES, INC.
   4. TYLER PIPE; WADE DIV.
   5. ZURN PLUMBING PRODUCTS GROUP; SPECIFICATION DRAINAGE OPERATION.
   STANDARD: ASME A112.36.2M. INCLUDE WALL ACCESS.
   SIZE: SAME AS CONNECTED DRAINAGE PIPING.
   BODY: HUB-AND-SPIGOT, CAST-IRON SOIL PIPE T-BRANCH AS REQUIRED TO MATCH CONNECTED PIPING.
   CLOSURE: COUNTERSUNK OR RAISED-HEAD, BRASS PLUG.
   CLOSURE PLUG SIZE: SAME AS OR NOT MORE THAN ONE SIZE SMALLER THAN CLEANOUT SIZE.
   WALL ACCESS: ROUND, STAINLESS-STEEL WALL-INSTALLATION FRAME AND COVER.

D. INSTALL CLEANOUTS IN ABOVEGROUND PIPING AND BUILDING DRAIN PIPING ACCORDING TO THE FOLLOWING, UNLESS OTHERWISE INDICATED:
   1. SIZE SAME AS DRAINAGE PIPING UP TO NPS 4 (DN 100). USE NPS 4 (DN 100) FOR LARGER DRAINAGE PIPING UNLESS LARGER CLEANOUT IS INDICATED.
   2. LOCATE AT EACH CHANGE IN DIRECTION OF PIPING GREATER THAN 45 DEGREES.
   3. LOCATE AT MINIMUM INTERVALS OF 50 FEET (15 M) FOR PIPING NPS 4 (DN 100) AND SMALLER AND 100 FEET (30 M) FOR LARGER PIPING.
   4. LOCATE AT EACH VERTICAL SOIL AND WASTE STACK.

E. FOR FLOOR CLEANOUTS FOR PIPING BELOW FLOORS, INSTALL CLEANOUT DECK PLATES WITH TOP FLUSH WITH FINISHED FLOOR.

F. FOR CLEANOUTS LOCATED IN CONCEALED PIPING, INSTALL CLEANOUT WALL ACCESS COVERS, OF TYPES INDICATED, WITH FRAME AND COVER FLUSH WITH FINISHED WALL.

G. INSTALL FLOOR DRAINS AT LOW POINTS OF SURFACE AREAS TO BE DRAINED. SET GRAT

ELECTRICAL SPECIFICATIONS

ELECTRICAL CONDUCTORS

A. MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
ALCAN PRODUCTS CORPORATION; ALCAN CABLE DIVISION.
AMERICAN INSULATED WIRE CORP.; A LEVITON COMPANY.
GENERAL CABLE CORPORATION.
SENATOR WIRE & CABLE COMPANY.
SOUTHWIRE COMPANY.
COPPER CONDUCTORS: COMPLY WITH NEMA WC 70.
CONDUCTOR INSULATION: COMPLY WITH NEMA WC 70 FOR TYPES THW, THW-THWN, XHHW, UF, USE, AND SO.
MULTICONDUCTOR 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: SOLID FOR NO. 10 AWG AND SMALLER; STRANDED FOR NO. 8 AWG AND LARGER.

C. CONDUCTOR INSULATION AND MULTICONDUCTOR CABLE APPLICATIONS AND WIRING METHODS
1. SERVICE ENTRANCE: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY, TYPE SE OR USE MULTICONDUCTOR 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: YPE 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 INSTALLED BELOW RAISED FLOORING: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY OR ARMORED CABLE, TYPE AC, METAL-CLAD CABLE, TYPE MC.
10. BRANCH CIRCUITS INSTALLED IN PATIENT CARE AREAS: TYPE HCF-MCAP OR AC-HCF WITH ASSEMBLY CERTIFIED AS AN EQUIPMENT GROUNDING CONDUCTOR AND A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR CONNECTED TO ALL RECEPTACLES, METALLIC BOXES CONTAINING RECEPTACLES, 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, LEXAN, IMPULSE 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 CONDUCTOR 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 CONDUCTOR 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 RACEWAY: SPACE SUPPORTS FOR EMT, IMC, AND RMC AS SCHEDULED IN NECA 1; WHERE ITS TABLE 1 LISTS MAXIMUM SPACINGS LESS THAN STATED 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 CEILINGS 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 OPENING3 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 WEIGHT 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/D1.1M, 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. ALFLEX INC.
3. ALLIED TUBE & CONDUIT; A TYCO INTERNATIONAL LTD. CO.
4. ANAMET ELECTRICAL, INC.; ANACONDA METAL HOSE.
5. ELECTRI-FLEX CO.
6. MAVERICK TUBE CORPORATION.
7. O-Z GEDNEY; A UNIT OF GENERAL SIGNAL.
8. 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 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.
MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
1. THOMAS & BETTS CORPORATION.
2. WALKER SYSTEMS, INC.; WIREMOLD COMPANY (THE).
3. WIREMOLD COMPANY (THE); ELECTRICAL SALES DIVISION.

N. 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/GEDNEY; A UNIT OF GENERAL SIGNAL.
6. RACO; A HUBBELL COMPANY.
7. ROBROY INDUSTRIES, INC.; ENCLOSURE DIVISION.
8. THOMAS & BETTS CORPORATION.
9. WALKER SYSTEMS, INC.; WIREMOLD COMPANY (THE).

O. SHEET METAL OUTLET AND DEVICE BOXES: NEMA OS 1.
P. CAST-METAL OUTLET AND DEVICE BOXES: NEMA FB 1; FERROUS ALLOY, TYPE FD, WITH GASKETED COVER.
Q. METAL FLOOR BOXES: CAST METAL, FULLY ADJUSTABLE, RECTANGULAR.
R. SMALL SHEET METAL PULL AND JUNCTION BOXES: NEMA OS 1.
S. CAST-METAL ACCESS, PULL, AND JUNCTION BOXES: NEMA FB 1, GALVANIZED, CAST IRON WITH GASKETED COVER.
T. HINGED-COVER ENCLOSURES: NEMA 250, TYPE 1, WITH CONTINUOUS-HINGE COVER WITH FLUSH LATCH, UNLESS OTHERWISE INDICATED.
1. METAL ENCLOSURES: SEMIL FINISHED INSIDE AND OUT WITH MANUFACTURER'S STANDARD FINISH.
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. 4SD-SPS.
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. 4S-SPS.
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. 4SD-SPS. 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.

U. 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 MATCH PANELBOARDS.
4. METAL BARRIERS TO SEPARATE WIRING OF DIFFERENT SYSTEMS AND VOLTAGE.
5. ACCESSORY FEET WHERE REQUIRED FOR FREESTANDING EQUIPMENT.

V. RACEWAY APPLICATION:
OUTDOORS: APPLY RACEWAY PRODUCTS AS SPECIFIED BELOW, UNLESS OTHERWISE INDICATED:
1. EXPOSED CONDUIT: RIGID STEEL CONDUIT.
2. CONCEALED CONDUIT, ABOVEGROUND: RIGID STEEL CONDUIT, EMT, RNC.
3. UNDERGROUND CONDUIT: RNC, 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.

W. COMPLY WITH THE FOLLOWING INDOOR APPLICATIONS, UNLESS OTHERWISE INDICATED:
1. EXPOSED, NOT SUBJECT TO PHYSICAL DAMAGE: EMT.
2. EXPOSED, NOT 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, FORKLIFTS, 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): FMC, 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: 3/4-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, NICKS, AND SCRAPES 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 STUB-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 WITHIN FINISHED WALLS, CEILINGS, 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 ENT TO RNC, 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.
1. USE LFMC IN DAMP OR WET LOCATIONS.

AQ. RECESSED BOXES IN MASONRY WALLS: SAW-CUT 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.

TRANSFORMERS

A. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
ACME ELECTRIC CORPORATION; POWER DISTRIBUTION PRODUCTS DIVISION.
EATON ELECTRICAL INC.; CUTLER-HAMMER PRODUCTS.
GENERAL ELECTRIC COMPANY.
SIEMENS ENERGY & AUTOMATION, INC.
SOLA/HEVI-DUTY.
SQUARE D; SCHNEIDER ELECTRIC.

B. GENERAL TRANSFORMER REQUIREMENTS
DESCRIPTION: FACTORY-ASSEMBLED AND -TESTED, AIR-COOLED UNITS FOR 60-HZ SERVICE.
GRAIN-ORIENTED, NON-AGING SILICON STEEL.
CONTINUOUS WINDINGS WITHOUT SPLICES EXCEPT FOR TAPS.
INTERNAL COIL CONNECTIONS: BRAZED OR PRESSURE TYPE.

C. COMPLY WITH NEMA ST 20, AND LIST AND LABEL AS COMPLYING WITH UL 1561. ONE LEG PER PHASE.

D. ENCLOSURE: VENTILATED, NEMA 250, TYPE 2. CORE AND COIL SHALL BE ENCAPSULATED WITHIN RESIN COMPOUND, SEALING OUT MOISTURE AND AIR.

E. ENCLOSURE: VENTILATED, NEMA 250, TYPE 3R. CORE AND COIL SHALL BE ENCAPSULATED WITHIN RESIN COMPOUND, SEALING OUT MOISTURE AND AIR.

F. TRANSFORMER ENCLOSURE FINISH: COMPLY WITH NEMA 250. FINISH COLOR: GRAY.

G. TAPS FOR TRANSFORMERS SMALLER THAN 7.5 KVA: ONE 5 PERCENT TAP ABOVE NORMAL FULL CAPACITY.

H. TAPS FOR TRANSFORMERS 7.5 TO 24 KVA: ONE 5 PERCENT TAP ABOVE AND ONE 5 PERCENT TAP BELOW NORMAL FULL CAPACITY.

I. TAPS FOR TRANSFORMERS 25 KVA AND LARGER: TWO 2.5 PERCENT TAPS ABOVE AND TWO 2.5 PERCENT TAPS BELOW NORMAL FULL CAPACITY.

J. INSULATION CLASS: 220 DEG C, UL-COMPONENT-RECOGNIZED INSULATION SYSTEM WITH A MAXIMUM OF 115 DEG C RISE ABOVE 40 DEG C AMBIENT TEMPERATURE.

K. ENERGY EFFICIENCY FOR TRANSFORMERS RATED 15 KVA AND LARGER: COMPLYING WITH DOE-2016 10 CFR PART 431.

L. K-FACTOR RATING: TRANSFORMERS INDICATED TO BE K-FACTOR RATED SHALL COMPLY WITH UL 1561 REQUIREMENTS FOR NONSINUSOIDAL LOAD CURRENT-HANDLING CAPABILITY TO THE DEGREE DEFINED BY DESIGNATED K-FACTOR. UNIT SHALL NOT OVERHEAT WHEN CARRYING FULL-LOAD CURRENT WITH HARMONIC DISTORTION CORRESPONDING TO DESIGNATED K-FACTOR. INDICATE VALUE OF K-FACTOR ON TRANSFORMER NAMEPLATE.

M. ELECTROSTATIC SHIELDING: EACH WINDING SHALL HAVE AN INDEPENDENT, SINGLE, FULL-WIDTH COPPER ELECTROSTATIC SHIELD ARRANGED TO MINIMIZE INTERWINDING CAPACITANCE. ARRANGE COIL LEADS AND TERMINAL STRIPS TO MINIMIZE CAPACITIVE COUPLING BETWEEN INPUT AND OUTPUT TERMINALS. INCLUDE SPECIAL TERMINAL FOR GROUNDING THE SHIELD. SHIELD EFFECTIVENESS: CAPACITANCE BETWEEN PRIMARY AND SECONDARY WINDINGS: NOT TO EXCEED 33 PICOFARADS OVER A FREQUENCY RANGE OF 20 HZ TO 1 MHZ, COMMON-MODE NOISE ATTENUATION: MINIMUM OF MINUS 120 DBA AT 0.5 TO 1.5 KHZ; MINIMUM OF MINUS 65 DBA AT 1.5 TO 100 KHZ. NORMAL-MODE NOISE ATTENUATION: MINIMUM OF MINUS 52 DBA AT 1.5 TO 10 KHZ.

N. FUNGUS PROOFING: PERMANENT FUNGICIDAL TREATMENT FOR COIL AND CORE.

O. LUG RATING: ALL LUG CONNECTIONS SHALL BE RATED FOR CONNECTION OF 75 DEG C INSULATION CONDUCTORS.

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 CLAMPS. 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 TOPCOAT.

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.

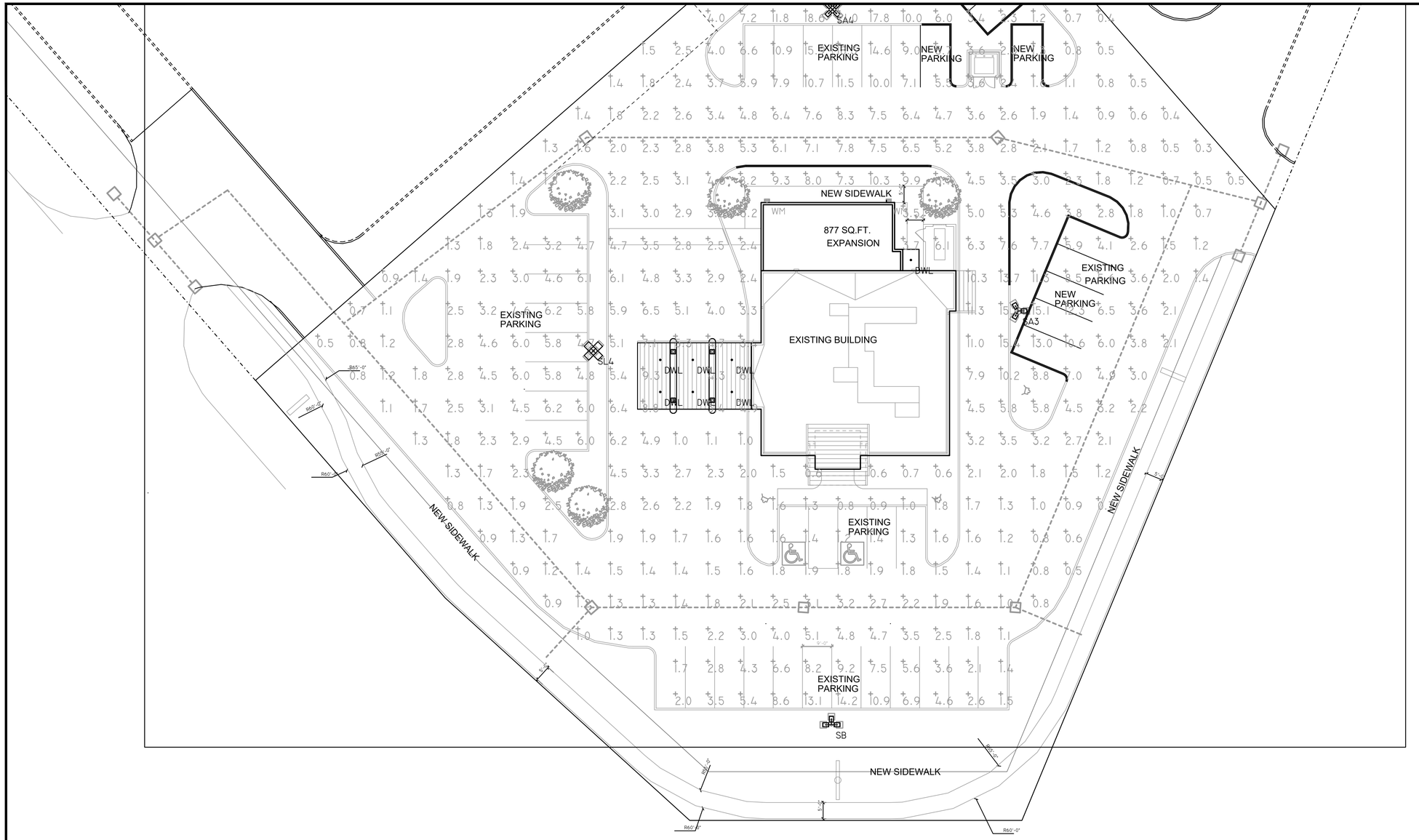
J. CONDUCTOR CONNECTORS: SUITABLE FOR USE WITH CONDUCTOR MATERIAL AND SIZES.
MATERIAL: TIN-PLATED ALUMINUM OR HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY.
MAIN AND NEUTRAL LUGS: COMPRESSION TYPE. GROUND LUGS AND BUS-CONFIGURED TERMINATORS: COMPRESSION TYPE. FEED-THROUGH LUGS: COMPRESSION TYPE, SUITABLE 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:
EATON ELECTRICAL INC.; CUTLER-HAMMER BUSINESS UNIT.
GENERAL ELECTRIC COMPANY; GE CONSUMER & INDUSTRIAL
SIEMENS ENERGY & AUTOMATION, INC.
SQUARE D; A BRAND OF SCHNEIDER ELECTRIC.
PANELBOARDS: NEMA PB 1, LIGHTING AND APPLIANCE BRANCH-CIRCUIT TYPE.
MAINS: CIRCUIT BREAKER OR LUGS ONLY.
BRANCH OVERCURRENT PROTECTIVE DEVICES: BOLT-ON CIRCUIT BREAKERS, REPLACEABLE WITHOUT DISTURBING ADJACENT UNITS.
DOORS: CONCEALED HINGES; SECURED WITH FLUSH LATCH WITH TUMBLER LOCK; KEYED ALIKE.

LIGHTING FIXTURES

A. GENERAL REQUIREMENTS FOR LIGHTING FIXTURES AND COMPONENTS.
1. RECESSED FIXTURES: COMPLY WITH NEMA LE 4 FOR CEILING COMPATIBILITY FOR RECESSED FIXTURES.
2. INCANDESCENT FIXTURES: COMPLY WITH UL



Luminaire Schedule

Symbol	Qty	Label	Mounting Height	Arrangement	Description	LLF	Luminaire Lumens
	2	WM	12	Single	LSI P/N: XWM-FT-LED-08L-40-UE-FINISH	0.850	8605
	1	SA3	30	3 @ 120 Degrees	TRU40PXX4F	0.600	28744
	1	SA4	30	4 @ 90 Degrees	TRU40PXX4F	0.600	28744
	1	SB	30	3 @ 90 Degrees	TRU40PXX4F	0.600	28744
	7	DWL	9, 9.5	Single	WILLIAMS PN: 6DR-TL-L20/840-DIM-UNV-LW-OF-WH-AD-WET/CC-N-FI	0.850	1129
	1	SL4	30	4 @ 90 Degrees	LSI P/N: XGBM-5W-LED-SS-NW-UE-BRZ	0.850	15173

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
REVISED SITE	Illuminance	Fc	4	21.0	0.3	14	70

EBIE Mechanical Electrical Plumbing
CONSULTING ENGINEERS
12603 Southwest Frwy, Ste 170, Stafford, Tx 77477
Tel: (713) 840-0177 / Firm Reg. No: 5638

JOSE M. GUERRERO 154536 LICENSED PROFESSIONAL ENGINEER 04/30/2026

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299 Country Lane at U.S. 69
Lumberton, Texas 77657

E/B/E PROJECT NUMBER: 26028.00

ISSUED FOR	DATE
ISSUED FOR CLIENT APPROVAL	
ISSUED FOR BIDDING	04/30/2026
ISSUED FOR PERMIT	04/30/2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE
	REVIEW SET	03-27-2026
	90% REVIEW SET	04-13-2026
	BID AND PERMIT	04-30-2026

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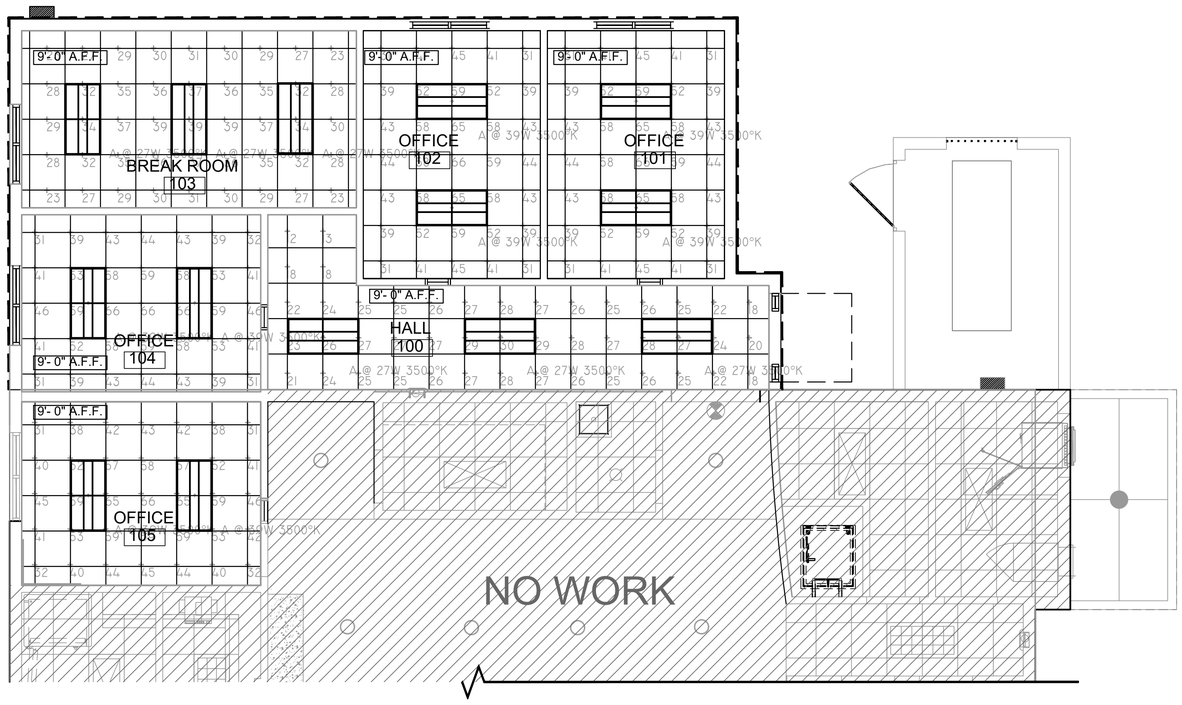
DESIGN TEAM
PM: JG
MECHANICAL: CC
ELECTRICAL: JG
PLUMBING: JG
CHECKED-BY: JG

DRAWING TITLE
PHOTOMETRICS - SITE

SHEET NO.
MEP-4.00

Luminaire Schedule									
Symbol	Qty	Label	Mounting Height	Arrangement	Description	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
·	6	A @ 27W 3500°K	9	Single	WILLIAMS P/N: FT-24-LS-8CS-AF-DIM-UNV 27W@3500K	0.900	4111	27.309	163.854
·	8	A @ 39W 3500°K	9	Single	WILLIAMS P/N: FT-24-LS-8CS-AF-DIM-UNV 39W@3500K	0.900	5765	38.9	311.2

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
BREAK ROOM 103_Floor	Illuminance	Fc	31	39	23	1	2
HALL 100_Floor	Illuminance	Fc	24	30	12	2	3
OFFICE 101_Workplane	Illuminance	Fc	48	66	31	2	2
OFFICE 102_Workplane	Illuminance	Fc	48	66	31	2	2
OFFICE 104_Workplane	Illuminance	Fc	48	66	31	2	2
OFFICE 105_Workplane	Illuminance	Fc	48	66	31	2	2



01 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

SLI DESIGN, INC.
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MECHANICAL: CC
ELECTRICAL: JG
PLUMBING: JG
CHECKED-BY: JG

DRAWING TITLE
PHOTOMETRICS - INTERIOR

SHEET NO.
MEP-4.01

E|B|E CONSULTING ENGINEERS Mechanical Electrical Plumbing
12603 Southwest Frwy, Ste 170, Stafford, Tx 77477
Tel: (713) 840-0177 / Firm Reg. No: 5638

JOSE M. GUERRERO
154536
LICENSED PROFESSIONAL ENGINEER
04/30/2026

MECHANICAL GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER. CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR TARPS TO KEEP DUST AND DIRT WITHIN THE CONSTRUCTION AREA.
2. NO PIPING, EQUIPMENT, ETC. SHALL BE REMOVED, DISCONNECTED OR SHUT DOWN WITHOUT PRIOR REVIEW WITH THE LANDLORD AND/OR ENGINEER TO CONFIRM THAT AREAS TO REMAIN IN OPERATION WILL NOT BE AFFECTED. IF ANY AREAS NOT WITHIN THE SCOPE OF WORK ARE AFFECTED BY ANY SHUTDOWN, REMOVAL OR DISCONNECTION, SUFFICIENT ADVANCE NOTICE MUST BE GIVEN TO THE LANDLORD INDICATING WHICH AREAS WILL BE AFFECTED, WHEN THE PROPOSED SHUTDOWN WILL OCCUR, AND FOR HOW LONG A PERIOD OF TIME.
3. ALL ITEMS REMOVED SHALL BECOME PROPERTY OF THE LANDLORD AND SHALL BE DISPOSED OF AS PER THE LANDLORD'S INSTRUCTIONS, UNLESS INDICATED OTHERWISE. ALL ITEMS WHICH ARE NOT TO BE STORED ON SITE BY OWNERS SHALL BE REMOVED FROM THE BUILDING IMMEDIATELY.
4. THIS CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO PROCEEDING WITH ANY WORK. WHERE DISCREPANCIES OCCUR BETWEEN THESE DOCUMENTS AND EXISTING CONDITIONS, THE DISCREPANCY SHALL BE REPORTED TO THE LANDLORD AND/OR ENGINEER FOR EXPEDITING AND THE RESOLUTION.
5. CLEAN THE JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSED BY THE PERFORMANCE OF THE WORK INCLUDED IN THIS CONTRACT.
6. USE OF THE LANDLORD'S ELEVATORS AND BUILDING CORRIDORS FOR HANDLING OF THE LANDLORD'S AND REMOVED EQUIPMENT AND MATERIALS SHALL BE AT THE DIRECTION OF THE LANDLORD AND SHALL BE COORDINATED WITH HIS OPERATIONS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.
8. EXISTING MATERIALS THAT ARE REMOVED SHALL NOT BE REUSED IN NEW SYSTEMS, EXCEPT WHERE INDICATED AS BEING RELOCATED.
9. PROVIDE ALL NECESSARY TEMPORARY OR PERMANENT CAPS OR PLUGS FOR PIPING. DO NOT LEAVE PIPING OPEN ENDED.
10. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
11. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH THE LANDLORD AND ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK.
12. SUBMISSION OF PROPOSAL DIRECTLY OR INDIRECTLY IN CONNECTION WITH THIS WORK SHALL IMPLY THAT THE BIDDER HAS EXAMINED THE JOB SITE UNDER WHICH HE WILL BE OBLIGATED TO OPERATE SHOULD HE BE AWARDED THE WORK UNDER THIS CONTRACT. NO EXTRA CHARGE WILL BE ALLOWED FOR FAILURE OF ANY BIDDER TO EXAMINE THE SITE PRIOR TO BID.
13. ALL WORK SHALL CONFORM TO ALL STATE AND LOCAL CODES, RULES AND REGULATIONS AND ORDINANCES.
14. CONTRACTOR SHALL SECURE AND PAY ALL FEES AND PERMITS PERTAINING TO THE CONTRACT.
15. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. THE CONTRACTOR SHALL PROVIDE ALL HANGERS AND SUPPORTS REQUIRED FOR A COMPLETE INSTALLATION.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR WORKMEN'S IDENTIFICATION AND BADGING, SAFETY AND FIRE PROTECTION, CONTRACTOR'S LIABILITY INSURANCE, BARRICADES, WARNING SIGNS, TRASH REMOVAL, CUTTING AND PATCHING.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING AND PROTECTION OF MATERIALS.
18. CONTRACTOR SHALL PROVIDE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT AND TRANSFER TO POINT OF INSTALLATION, OWNER FURNISHED ITEMS.
19. WHERE CONDUIT, CABLES, DUCTWORK OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE SLEEVES SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS UL LISTED AND ACCEPTED BY THE BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THIS SERVICE.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING AS IT RELATES TO HIS WORK.
21. CONTRACTOR SHALL REFER TO BUILDING MANAGEMENT'S RULES AND REGULATIONS' TO COMPLY WITH BUILDING STANDARDS.
22. FLEXIBLE DUCTWORK LENGTHS SHALL NOT EXCEED 5'–0". USE INSULATED RIGID ROUND DUCTWORK WHERE REQUIRED. ALL NEW FLEXIBLE DUCTWORK CONNECTIONS TO AIR DEVICES SHOWN ON THE DRAWING SHALL BE SIZED ACCORDING TO THE NECK SIZE SCHEDULE.
23. THE ENTIRE AIR SUPPLY SYSTEM SHALL BE RE–BALANCED TO THE AIR QUANTITIES INDICATED ON THIS DRAWING BY AN INDEPENDENT AIR BALANCE CONTRACTOR. THE AIR BALANCE CONTRACTOR SHALL SUBMIT NEBB CERTIFIED AIR BALANCE REPORTS FOR ENGINEERING REVIEW AND TO BUILDING MANAGEMENT. PROVIDE AHU DRIVE ADJUSTMENTS AS REQUIRED.
24. REFER TO DRAWING MEP FOR SPECIFICATIONS THAT APPLY TO THIS SHEET.
25. CONTRACTOR SHALL VERIFY THAT SUFFICIENT RETURN AIR OPENINGS ARE PROVIDED IN EXISTING WALLS ABOVE CEILING. AIR IS RETURNED TO THE CEILING PLENUM AND THEN TO THE AIR HANDLING UNITS THROUGH RETURN AIR GRILLES, ARCHITECTURAL CEILING OPENING AND LIGHT FIXTURES.
26. EXISTING TAPS TO SUPPLY DUCTWORK SHALL BE USED WHERE POSSIBLE. ANY UNUSED TAPS TO EXISTING SUPPLY DUCTWORK SHALL BE CAPPED, SEALED AIRTIGHT, AND INSULATED.
27. EXISTING MAIN TRUNK SUPPLY DUCTWORK SHALL REMAIN. CONTRACTOR SHALL VERIFY EXISTING LOCATION AND LIGHTING FIXTURE CLEARANCES AND INCLUDE IN THEIR COST THE RELOCATION OR REMOVAL OF EXISTING EQUIPMENT REQUIRED TO COMPLY WITH THIS DRAWING.
28. CONTRACTOR SHALL PROVIDE TO BUILDING OWNER THE AS–BUILT RECORD DRAWINGS AND THE OPERATING AND MAINTENANCE MANUALS WITHIN 90 DAYS OF SYSTEMS ACCEPTANCE. RECORD DRAWINGS SHALL INCLUDE PERFORMANCE DATA FOR EQUIPMENT, DUCT AND PIPE DISTRIBUTION SYSTEMS, AND AIR AND WATER FLOW RATES. O&M MANUALS SHALL INCLUDE EQUIPMENT AND ASSOCIATED OPTIONS REQUIRING SERVICE, REQUIRED MAINTENANCE ACTIVITIES, CONTACT INFO OF SERVICE AGENCIES, HVAC CONTROLS CALIBRATION INFORMATION AND SET–POINTS, AND DESCRIPTION OF EQUIPMENTS' INTENDED OPERATIONS.
29. FOR RETURN AIR PLENUMS, ALL MATERIALS LOCATED WITHIN A RETURN AIR PLENUM SHALL BE RATED AND APPROVED FOR INSTALLATION IN A RETURN AIR PLENUM.

ROOFTOP UNIT SCHEDULE

DESIGNATION	RTU–4	–	–	–
SERVES	–	–	–	–
TOTAL CFM	720	–	–	–
O.A. CFM	85	–	–	–
EXT. S.P. IN. WC	0.8	–	–	–
FAN HP	1/3	–	–	–
COOLING				
EAT (DB/WB)	77.39/64.54	–	–	–
LAT (DB/WB)	55.00/54.23	–	–	–
SEN. HT. KBTU/HR	17,812	–	–	–
TOTAL HT. KBTU/HR	22,810	–	–	–
AMB. TEMP.	105	–	–	–
HEATING	ELECTRIC			
kW	6.0	–	–	–
VOLTS/PHASE/CYCLES	208/1/60	–	–	–
MCA/MOCP	36/40	–	–	–
EER2/SEER2	11.0/14.3	–	–	–
MANUFACTURER	TRANE	–	–	–
MODEL NO.	5TCC4024A	–	–	–
WEIGHT (LBS)	362	–	–	–
NOTES	–	–	–	–

NOTES:

1. SUBMITTAL EQUIPMENT MUST MEET AND ACHIEVE THE LOW DEWPOINT REQUIRED ABOVE. SUBMITTAL EQUIPMENT MEETING ONLY THE TOTAL AND SENSIBLE LOADS SHOWN IN THE SCHEDULE IS NOT ACCEPTABLE REGARDING ITS PERFORMANCE.
2. PROVIDE 2" MERV 11. FILTER. AND HINGED ACCESS PANELS.
3. PROVIDE FACTORY BOTTOM DISCHARGE CURB AT LEAST 14" HIGH WITH R–8 INSULATION.
4. PROVIDE FACTORY INSTALLED DISCONNECT AND SINGLE POINT ELECTRICAL CONNECTION.
5. PROVIDE WITH LOW AMBIENT KIT, FREEZSTAT, CRANKCASE HEATER, HIGH PRESSURE CONTROL AND FAN DELAY RELAY KIT.
6. PROVIDE 2021 IECC COMPLIANT THERMOSTAT FOR EACH ZONE. THERMOSTAT SHALL BE CALIBRATED TO DISPLAY SPACE TEMPERATURE AT +/– 1°F. THE CONTROL SYSTEM SHALL CONTROL ECONOMIZER, DISCHARGE AIR TEMPERATURE CONTROL, SPACE TEMPERATURE.
   - 6.1. THERMOSTAT SHALL INCLUDE A DEADBAND NOT LESS THAN 5°F.
   - 6.2. PROVIDE THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY TIME CLOCK OR PROGRAMMABLE SYSTEM.
   - 6.3. SETBACK CONTROLS SHALL BE CONFIGURED TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURE DOWN TO 55°F AUTOMATIC SETBACK.
   - 6.4. AUTOMATIC TIME CLOCK OR PROGRAM CONTROLS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTINGS DURING A LOSS OF POWER FOR NOT FEWER THAN 10 HOURS. ADDITIONALLY, THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS; A MANUALLY OPERATED TIMER CONFIGURED TO OPERATE THE SYSTEM FOR UP TO 2 HOURS.
   - 6.5. PROVIDE AUTOMATIC START CONTROLS TO EACH SYSTEM. CONTROLS SHALL BE CONFIGURED TO AUTOMATICALLY ADJUST THE DAILY START TIME OF THE HVAC SYSTEM IN ORDER TO BRING EACH SPACE TO THE DESIRED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED OCCUPANCY
7. PROVIDE CORROSION RESISTANT BIRD SCREEN WITHIN THE OUTDOOR AIR INTAKE.
8. PROVIDE MOTORIZED DAMPER FOR OUTSIDE AIR INTAKE. DAMPER SHALL CLOSE WHEN UNIT IS DE–ENERGIZED.
9. PROVIDE SUPPLY FAN WITH PREMIUM EFFICIENCY (MINIMUM 2021 IECC REQUIREMENT), ECM, VARIABLE–SPEED MOTOR.
10. PROVIDE FACTORY INSTALLED DUAL 115 VOLT GFCI SERVICE OUTLET.

AIR DEVICE SCHEDULE

MARK	MANUF. + MODEL	TYPE	REMARKS
	TITUS PCS OR EQUAL	CEILING SUPPLY	24x24 PERFORATED FACE. FACE SHALL BE ALUMINUM WITH A STEEL BACK PAN. PROVIDE AIR PATTERN CONTROLS. FACE AND FRAME SHALL HAVE AN OFF–WHITE ENAMEL FINISH. COORDINATE CEILING MOUNTING TYPE WITH ARCHITECTURAL CEILING TYPE. PROVIDE REMOTE DAMPER OPERATORS IN AREAS WITH INACCESSIBLE CEILINGS.
	TITUS PAR OR EQUAL	CEILING RETURN	24x24 PERFORATED FACE. FACE SHALL BE ALUMINUM WITH A STEEL BACK PAN. FACE AND FRAME SHALL HAVE AN OFF– WHITE ENAMEL FINISH. COORDINATE CEILING MOUNTING TYPE WITH ARCHITECTURAL CEILING TYPE.

OUTSIDE AIR ANALYSIS

OUTSIDE AIR SHALL BE PROVIDED IN ACCORDANCE WITH THE MECHANICAL CODES:

(Rp x Pz) + (Ra x Az) = Vbz

OFFICE SPACE: (5 CFM/PER x 6 PPL) + (0.06 CFM/SQFT x 654 SQFT) = 69 CFM
CORRIDOR: (5 CFM/PER x – PPL) + (0.06 CFM/SQFT x 202 SQFT) = 12 CFM

TOTAL = 81 CFM

OVERALL: Vbz / Ez = Voz
81 CFM / 1 = 81 CFM

TOTAL OUTSIDE AIR REQUIRED = 81 CFM

TOTAL OUTSIDE AIR PROVIDED VIA RTU–1 = 85 CFM

TOTAL OUTSIDE AIR REQUIRED = 81 CFM

RETURN DIFFUSER NECK SIZE SCHEDULE

CFM RANGE	SQUARE NECK SIZE	ROUND NECK SIZE
0 – 90	6 X 6	6"ø
95 – 140	8 X 8	8"ø
145 – 220	10 X 10	10"ø
225 – 315	12 X 12	12"ø
320 – 430	–	14"ø
435 – 560	–	16"ø

DIFFUSER NECK SIZE SCHEDULE

CFM RANGE	SQUARE NECK SIZE	ROUND NECK SIZE
0 – 120	6 X 6	6"ø
125 – 220	8 X 8	8"ø
225 – 330	10 X 10	10"ø
335 – 450	12 X 12	12"ø
455 – 530	15 X 15	14"ø
540 – 700	16 X 16	16"ø

LEGEND OF MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION
	SUPPLY DUCT VIEW INTO DUCT
	SUPPLY DUCT VIEW HEEL OF ELBOW
	RETURN OR EXHAUST DUCT VIEW INTO DUCT
	RETURN OR EXHAUST DUCT VIEW HEEL OF ELBOW
	SQUARE TO ROUND TRANSITION
	SQUARE ELBOW WITH TURNING VANES.
	RADIUS ELBOW WITHOUT TURNING VANES.
	SUPPLY SIDEWALL REGISTER
	RETURN OR EXHAUST SIDEWALL REGISTER
	ROUND S.A. DIFFUSER
	EXISTING FLEX DUCT
	NEW FLEX DUCT
	EXISTING DUCTWORK
	NEW DUCTWORK
	DUCTWORK TO BE REMOVED
	SQUARE CEILING DIFFUSER
	RETURN AIR GRILLE
	RETURN OR EXHAUST AIR REGISTER W/ SQUARE NECK
	PLENUM SLOT DIFFUSER
MD	MANUAL DAMPER
	FIRE DAMPER WITH ACCESS DOOR
D	DRAIN LINE
	PIPE RISING
	PIPE TURNING DOWN
S	EXHAUST FAN SPEED CONTROL
T	THERMOSTAT
(E)	EXISTING TO REMAIN
(R)	RELOCATED
R.A.	RETURN AIR
S.A.	SUPPLY AIR
C.F.M.	CUBIC FEET PER MINUTE
AHU	AIR HANDLER UNIT

NOTES:

1. ALL SYMBOLS MAY NOT BE USED ON THIS DRAWINGS.

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NECHES LUMBERTON OFFICE ADDITION
299 Country Lane at U.S. 69
Lumberton, Texas 77657

E/B/E PROJECT NUMBER: 25028.00

ISSUED FOR CLIENT APPROVAL	DATE
ISSUED FOR BIDDING	04/30/2026
ISSUED FOR PERMIT	04/30/2026
ISSUED FOR CONSTRUCTION	

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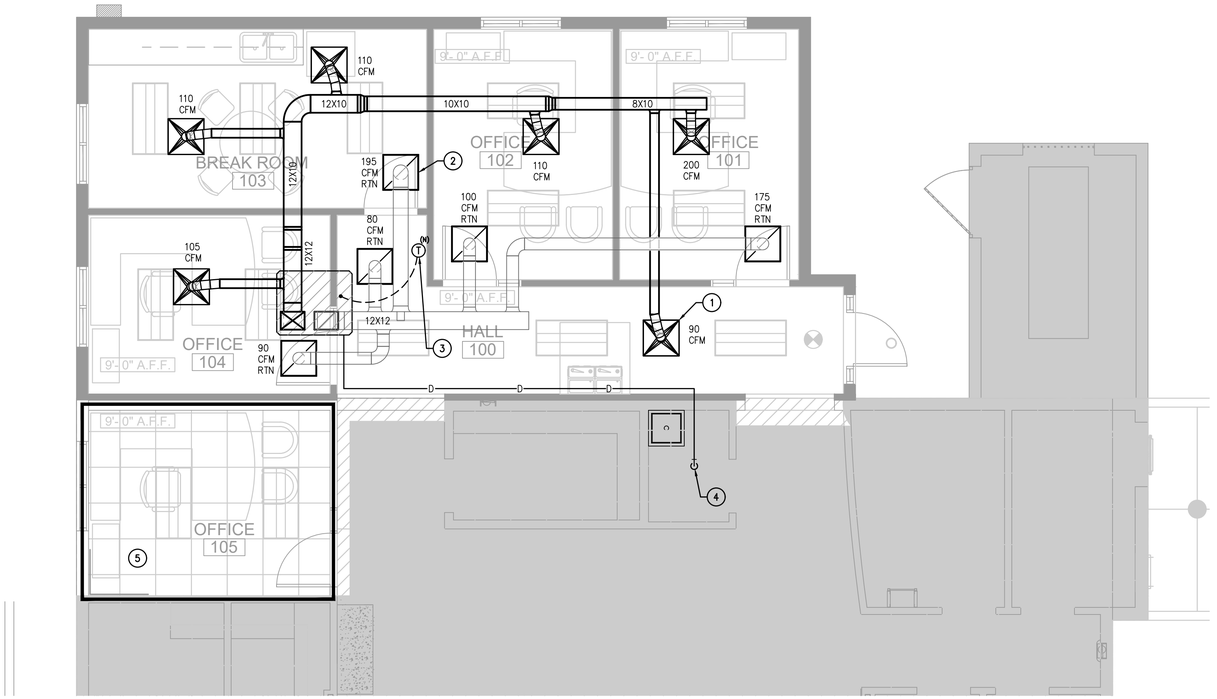
DESIGN TEAM
PM: JG
MECHANICAL: CC
ELECTRICAL: JG
PLUMBING: JG
CHECKED-BY: JG

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Tel: (713) 840-0177 / Firm Reg. No: 5638

JOSE M. GUERRERO
154536
LICENSED PROFESSIONAL ENGINEER
04/30/2026

DRAWING TITLE
MECHANICAL INFORMATION

SHEET NO.
M-1.00



01 MECHANICAL PLAN
SCALE: 1/4"=1'-0"

MECHANICAL KEYED NOTES:

1. PROVIDE NEW 24" X 24" SUPPLY AIR DEVICE AT LOCATION INDICATED. BALANCE TO CFM INDICATED. SEE SCHEDULE AND DETAILS. TYPICAL.
2. PROVIDE NEW 24" X 24" RETURN AIR GRILLE AT LOCATION INDICATED. SEE SCHEDULE AND DETAILS. TYPICAL.
3. PROVIDE NEW THERMOSTAT AT LOCATION INDICATED AT 4' A.F.F.. CONTRACTOR TO FIELD VERIFY AND COORDINATE WITH BUILDING ENGINEER FOR EXACT THERMOSTAT AND LOCATION.
4. PROVIDE NEW CONDENSATE LINE TO EXISTING FLOOR DRAIN IN JANITORS ROOM. FIELD COORDINATE FOR EXACT LOCATION TO AVOID ANY CONFLICTS PRIOR TO START OF WORK. PIPING SHALL NOT OBSTRUCT MAINTENANCE ACCESS TO ABOVE CEILING EQUIPMENT. TYPICAL.
5. EXISTING MECHANICAL IN THIS ROOM TO REMAIN.

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STATE OF TEXAS
JOSE M. GUERRERO
154536
REGISTERED PROFESSIONAL ENGINEER
04/30/2026

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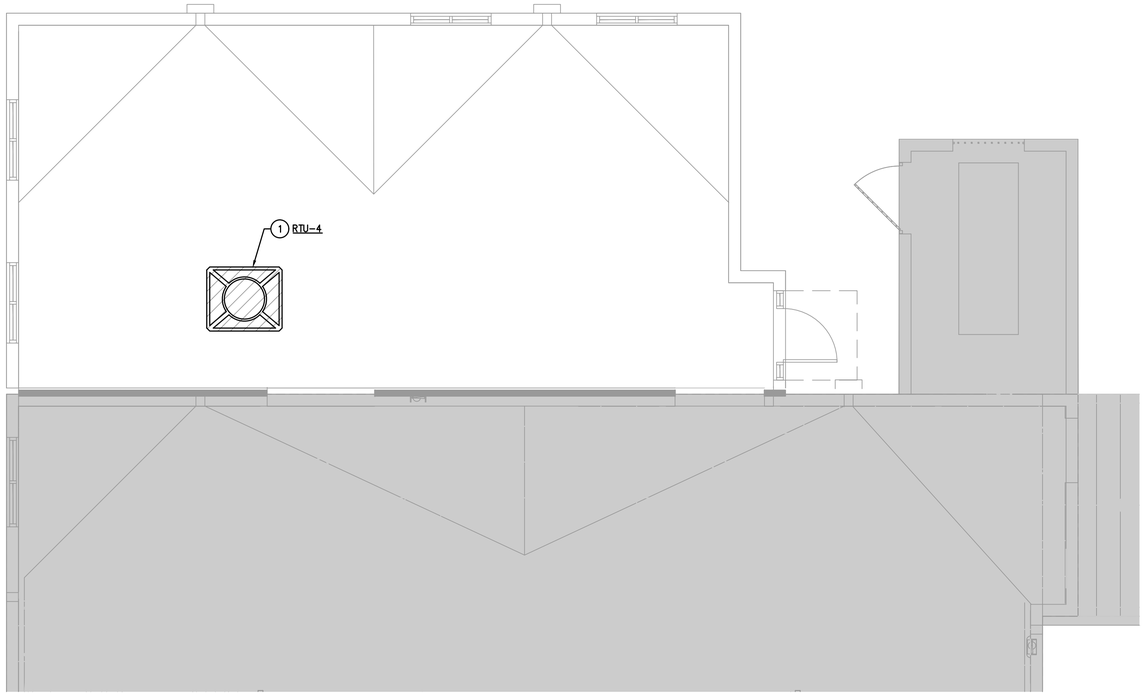
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	90% REVIEW SET	04-13-2026
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DRAWING TITLE
MECHANICAL PLAN

SHEET NO.
M-2.00



01 MECHANICAL ROOF PLAN
SCALE: 1/4"=1'-0"

MECHANICAL KEYED NOTES:

1. PROVIDE NEW ROOF MOUNTED UNIT (RTU-4) AT LOCATION INDICATED. FIELD VERIFY EXACT LOCATION AND MAINTAIN A MINIMUM OF 10'-0" FROM BUILDING EDGE TO EQUIPMENT.

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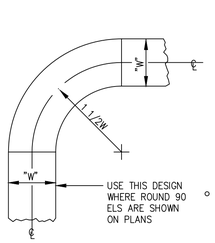
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MECHANICAL ROOF PLAN

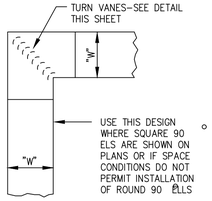
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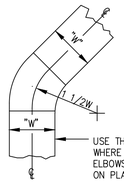


ROUND 90 ELBOW

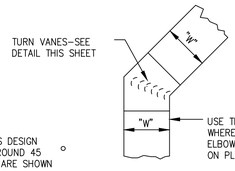


SQUARE 90 ELBOW

CONSTRUCTION OF 90 ELBOWS

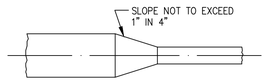


ROUND 45 ELBOW

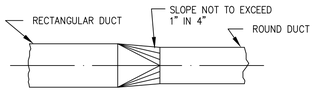


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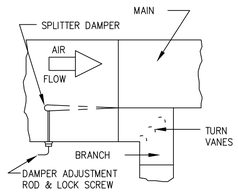
CONSTRUCTION OF 45 ELBOWS



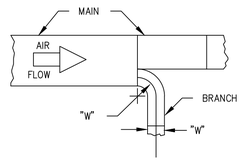
TYPICAL RECTANGULAR TRANSITION



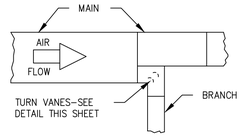
TYPICAL RECTANGULAR TO ROUND TRANSITION



TYPICAL SPLITTER DAMPER

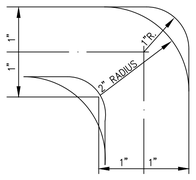


ROUND BRANCH TAKEOFF

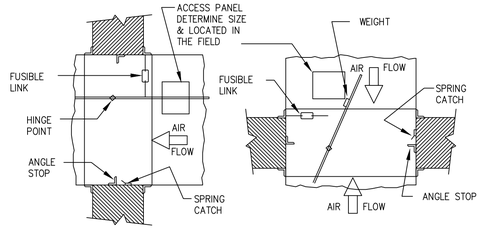


SQUARE BRANCH TAKEOFF

CONSTRUCTION OF BRANCH TAKEOFFS FROM MAIN

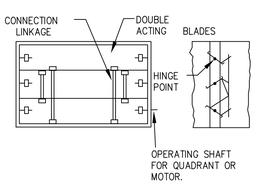


DETAIL OF TURN VANES



HORIZONTAL VERTICAL

TYPICAL FIRE DAMPER



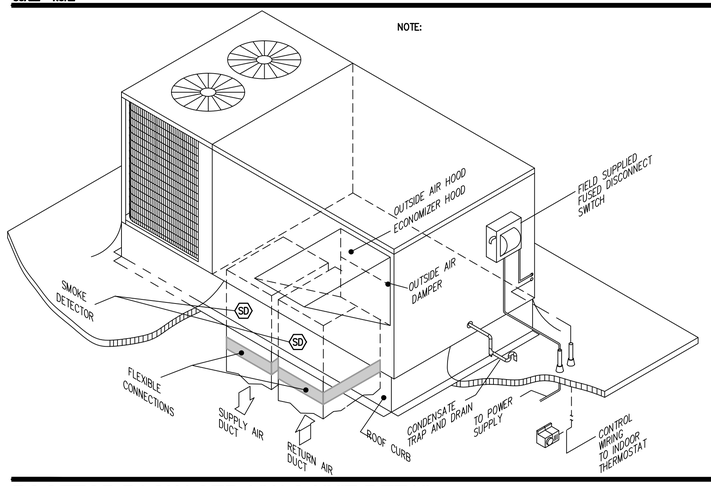
TYPICAL VOLUME DAMPER

INSTALLATION NOTES

1. ALL DUCTS SHALL BE CONSTRUCTED AND ERECTED IN A NEAT AND WORKMANLIKE MANNER.
2. DUCTS SHALL BE CONSTRUCTED OF THE WEIGHTS, GAGES AND MATERIAL SHOWN IN THE SCHEDULE ON THESE DRAWINGS.
3. THE DIMENSION SHOWN FOR ALL DUCTS SHOWN IN PLAN GIVE THE WIDTH FIRST AND THEN THE HEIGHT.
4. DUCT RISERS SHOULD BE SUPPORTED BY ANGLES AT EVERY FLOOR.
5. AIR TURN SHALL BE INSTALLED IN ALL ABRUPT ELBOWS TO PREVENT TURBULENCE.
6. DUCTS SHALL BE SECURELY ATTACHED TO THE BUILDING CONSTRUCTION IN AN APPROVED MANNER.
7. DIVERGING TRANSITION PIECES SHALL BE MADE AS GRADUAL AS POSSIBLE.
8. INSTALL FIRE DAMPERS IN ACCORDANCE WITH UL 555.
9. ACCESS PANELS SHOULD BE PLACED BEFORE AND/OR AFTER EQUIPMENT INSTALLED IN THE DUCT.
10. DUCT AREA SHOULD NOT BE DECREASED MORE THAN 10 PERCENT WHEN OBSTRUCTIONS CANNOT BE AVOIDED, AND THEN A STREAMLINED FITTING SHOULD BE USED.
11. FLEXIBLE FABRIC CONNECTIONS (OR EQUAL) SHOULD BE USED ON BOTH INLETS AND OUTLETS OF ALL FANS AND AIR HANDLING UNITS.
12. JOINTS AND SEAMS OF SUPPLY DUCTS SHALL BE FASTENED SECURELY AND MADE AIR TIGHT.

DETAILS OF THE LOW VELOCITY DUCT LAYOUT 01

SCALE: NONE



ROOFTOP PACKAGED HVAC UNIT DETAIL 02

SCALE: NONE

NOTES:

1 REFER:
TO MECHANICAL PLANS FOR DUCT WORK CONFIGURATION FOR EACH UNIT.

TO SCHEDULES FOR SPECIFIC UNIT TYPE.

TO STRUCTURAL DRAWINGS FOR ROOF FRAMING AT OPENING.

TO MEP SPECIFICATION FOR ALL APPROPRIATE CONNECTIONS TO UNIT.

2 PROVIDE FLEXIBLE DUCT CONNECTION ON SUPPLY AND RETURN DUCTS AT UNIT.

3 PROVIDE SMOKE DETECTORS IN SUPPLY AND RETURN DUCTS AT UNIT FOR UNITS WITH 2000 CFM OR GREATER.

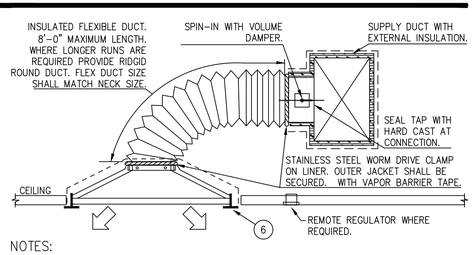
4 PROVIDE AUTOMATIC DAMPER IN OUTSIDE AIR INTAKE TO BALANCE OUTSIDE AND TO CLOSE WHEN UNIT IS NOT IN OPERATION.

5 PROVIDE SINGLE POINT CONNECTION FOR UNITS WITH ELECTRIC HEAT.

6 ROOFING MEMBRANE TO EXTEND TO TOP OF CURB AND OVER.

7 ANCHOR CURB AND UNIT TO ROOF FOR STORM RESISTANCE SEE GOVERNING BODY'S REQUIREMENTS AND MANUFACTURES SPECIFICATIONS.

8 ROUTE CONDENSATE DRAINS TO APPROPRIATE LOCATION. INSULATE CONDENSATE DRAIN TRAP. SEE MECHANICAL PLANS.

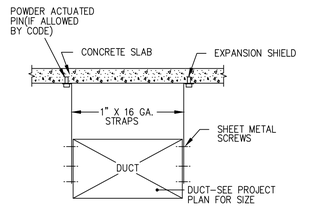


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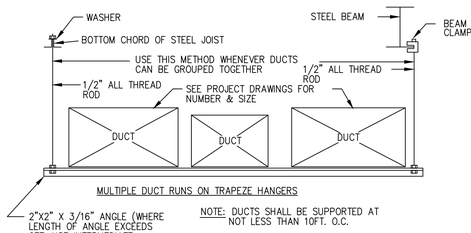
1. CEILING DIFFUSER SHALL BE INSTALLED SUCH THAT THE FACE OF DIFFUSER IS FLUSH WITH CEILING. REFER TO AIR DEVICE SCHEDULE FOR EXACT DEVICE.
2. SUPPORT FLEXIBLE DUCT FROM STRUCTURE. FLEXIBLE DUCT SHALL NOT KINK, SAG OR REST ON LIGHT FIXTURE, CEILING SUPPORT "TEES" OR CEILING TILE.
3. PROVIDE SQUARE TO ROUND TAP AT BRANCH DUCT WHERE FLEXIBLE DUCT SIZE EXCEEDS DIMENSION OF RECTANGULAR DUCT.
4. FOR UNCONDITIONED CEILING PLENUMS, INSULATE BACK OF CEILING DIFFUSER WITH 1" DUCT WRAP AND SEAL WITH VAPOR BARRIER TAPE.
5. METALLIC FLEXIBLE DUCT SHALL BE USED WHERE FLEXIBLE DUCT CONNECTIONS ARE SHOWN ON THE DRAWING TO ALL AIR DEVICES INSTALLED IN INACCESSIBLE LOCATIONS SUCH AS ABOVE GYPSUM BOARD OR PLASTER CEILINGS. (REFER TO ARCH. DRAWINGS FOR CEILING TYPE.)
6. CEILING "TEE" OR DRYWALL TRIM PIECE BY OTHERS.

CEILING DIFFUSER 03

SCALE: NONE

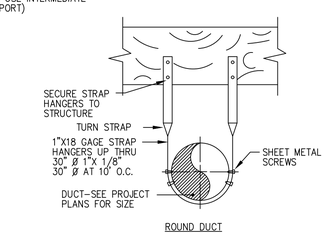


SINGLE RECTANGULAR DUCT

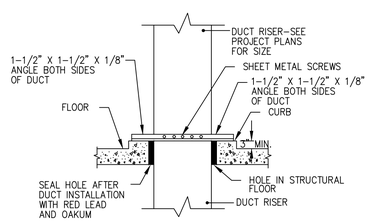


MULTIPLE DUCT RUNS ON TRAPEZE HANGERS

NOTE: DUCTS SHALL BE SUPPORTED AT NOT LESS THAN 10FT. O.C.



ROUND DUCT



RISER SUPPORT

DUCT HANGERS AND SUPPORTS DETAIL 04

SCALE: NONE

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E/B/E PROJECT NUMBER: 26028.00

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REVISIONS

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MECHANICAL: CC
ELECTRICAL: JG
PLUMBING: JG
CHECKED-BY: JG

DRAWING TITLE
MECHANICAL DETAILS

SHEET NO.
M-4.00

E/B/E Mechanical Electrical Plumbing CONSULTING ENGINEERS
12603 Southwest Fwy, Ste 170, Stafford, Tx 77477
Tel: (713) 840-0177 / Firm Reg. No: 5638

JOSE M. GUERRERO 154536 LICENSED PROFESSIONAL ENGINEER 04/30/2026

ELECTRICAL LIGHTING GENERAL NOTES:

1. MEP SPECIFICATIONS SHALL APPLY TO ALL WORK SHOWN ON THIS DRAWING UNLESS OTHERWISE NOTED.
2. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES.
3. 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.
4. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING EQUIPMENT PRIOR TO CONSTRUCTION. PROVIDE CIRCUIT TRACING AS REQUIRED TO DETERMINE CIRCUIT AVAILABILITY. PROVIDE A WRITTEN REPORT TO ENGINEER AND BUILDING MANAGEMENT SHOWING LIGHTING LOCATIONS AND CIRCUIT NUMBER USED.
5. ALL UNUSED WIRING IS TO BE REMOVED BACK TO SOURCE UNLESS NOTED OTHERWISE.
6. CONNECT NEW FIRE ALARM DEVICES TO THE BASE BUILDING FIRE ALARM SYSTEM AS REQUIRED. EXISTING DEVICES ARE INDICATED BY THE LETTER "E" ADJACENT TO THE DEVICE SYMBOL. THE BASE BUILDING FIRE ALARM SYSTEM SEQUENCES OF OPERATION SHALL COMPLY WITH THE CITY OF HOUSTON BUILDING CODE. ALARM INITIATION BY SMOKE DETECTOR, HEAT DETECTOR, PULL STATIONS, OR BY OTHER ALARM INITIATING DEVICES SHALL CAUSE AUDIBLE AND VISIBLE ALARM SIGNALS TO OCCUR ON THE FLOOR OF INCIDENCE, THE FLOOR ABOVE AND THE FLOOR BELOW. ELEVATORS SHALL RETURN TO THEIR DESIGNATED FLOORS AND ELECTRICALLY LOCKED EGRESS DOORS SHALL RELEASE, AND ALL OTHER EVENTS REQUIRED TO COMPLY WITH THE CITY OF HOUSTON BUILDING CODE SHALL OCCUR. PROVIDE ADDITIONAL ZONING AS NEEDED TO COMPLETE THE FIRE ALARM INSTALLATION AND TO MEET REQUIRED SEQUENCES OF OPERATION.
7. EGRESS AND EXIT LIGHT FIXTURES SHALL BE CONNECTED TO UNSWITCHED HOT CONDUCTOR WITH 2#10,1/2"C.
8. ALL LIGHTS SHALL BE CLEANED AND RESTORED TO GOOD WORKING CONDITION. PROVIDE NEW FIXTURES TO MATCH EXISTING AS REQUIRED. RELAMP ALL FIXTURES WITH NEW LAMPS AS REQUIRED.
9. INSTALL NEW ACRYLIC LENSES AS NEEDED IN LIGHT FIXTURES TO REPLACE DAMAGED LENSES.
10. ALL LIGHTING FIXTURES, LAMPS AND EXIT SIGNS SHALL MATCH BASE BUILDING STANDARD UNLESS OTHERWISE NOTED.
11. ALL FIRE ALARM DEVICES SHALL MATCH EXISTING.
12. CONTRACTOR SHALL REFER TO BUILDING MANAGEMENT'S "RULES AND REGULATIONS" TO COMPLY WITH BUILDING STANDARDS.
13. LIGHTING FIXTURES SHALL BE PROTECTED TO COMPLY WITH THE EXISTING BUILDING FLOOR/CEILING FIRE RATED ASSEMBLY.
14. 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 POWER GENERAL NOTES:

1. MEP SPECIFICATIONS SHALL APPLY TO ALL WORK ON THIS DRAWING UNLESS OTHERWISE NOTED.
2. REFER TO ARCHITECT FOR EXACT HEIGHT AND LOCATION OF ALL FLOOR AND WALL OUTLETS.
3. ALL DATA/TELEPHONE OUTLETS SHALL BE PROVIDED WITH PULL STRINGS.
4. 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.
5. 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.
6. CONDUCTORS SHALL BE #12 AWG SOLID COPPER (THWN) IN 1/2" CONDUIT UNLESS OTHERWISE INDICATED.
7. ALL OUTLETS TO BE MOUNTED VERTICALLY UNLESS OTHERWISE INDICATED.
8. 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 PULLED BY OTHERS.
9. CONTRACTOR SHALL REFER TO BUILDING MANAGEMENT'S "RULES AND REGULATIONS" TO COMPLY WITH BUILDING STANDARDS.
10. GANG TOGETHER, ALL NEW ELECTRICAL, TELEPHONE AND COMPUTER OUTLETS SHOWN ADJACENT TO EACH OTHER.
11. VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.
12. 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.
13. 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.
14. FOR RETURN AIR PLENUMS, ALL MATERIALS LOCATED WITHIN A RETURN AIR PLENUM SHALL BE RATED AND APPROVED FOR INSTALLATION IN A RETURN AIR PLENUM.

LEGEND OF ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
FCA – XXXXA. FCLT – XXXXA. MIN I.C. – XXXXA.	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.
GFCI	DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT INTERRUPTER; 20 AMP, 125V., 3 WIRE GROUNDED TYPE.
	JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING.
	JUNCTION BOX
	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

WIRELESS LIGHT SWITCHING CONTROLS

SYMBOL	DESCRIPTION
a $	A SINGLE LEADER CORRESPONDS TO A SINGLE SWITCH FOR THAT LIGHTING CIRCUIT. THE SWITCH WILL HAVE A CORRESPONDING AND MATCHING DESIGNATION LETTER IF THERE ARE OTHER SWITCHES IN THE SAME ROOM.
a $ b $	MULTIPLE LEADERS CORRESPOND TO MULTIPLE SWITCHES FOR THAT LIGHTING CIRCUIT. THE QUANTITY OF LEADERS CORRESPONDS TO THE QUANTITY OF SWITCHES THAT CONTROL THAT CIRCUIT. THE SWITCHES WILL HAVE A CORRESPONDING AND MATCHING DESIGNATION LETTER.

LIGHTING CONTROL SCHEDULE

MARK	CONTROL DESCRIPTION	CONTROL DEVICES	SEQUENCE OF OPERATION
1	WALL MOUNTED VACANCY SENSING	MS–B102 (DUAL–TECHNOLOGY WALL VACANCY SENSOR)	LIGHT FIXTURES IN THIS ROOM ARE TO BE MANUAL–ON/ AUTO–OFF CONTROLLED BY THE WALL MOUNTED VACANCY SENSOR SWITCH.
2B	CEILING MOUNTED VACANCY SENSING	PJ2–2B–GXX–L01 (WIRELESS REMOTE SWITCH) LRF2–OCR2B–P (WIRELESS CEILING VACANCY SENSOR) RMJS–16R–DV–B (RELAY POWER PACK WITH WIRELESS RECEIVER)	LIGHT FIXTURES IN THIS ROOM ARE TO BE MANUAL–ON/ AUTO–OFF CONTROLLED BY THE RELAY POWER PACK WITH WIRELESS RECEIVER; RECEIVING INPUTS FROM THE WIRELESS CEILING MOUNTED VACANCY SENSOR & THE WIRELESS REMOTE SWITCH.
2C	CEILING MOUNTED OCCUPANCY SENSING	PJ2–2B–GXX–L01 (WIRELESS REMOTE SWITCH) LRF2–OCR2B–P (WIRELESS CEILING OCCUPANCY SENSOR) RMJS–16R–DV–B (RELAY POWER PACK WITH WIRELESS RECEIVER)	LIGHT FIXTURES IN THIS ROOM ARE TO BE AUTO–ON/ AUTO–OFF CONTROLLED BY THE RELAY POWER PACK WITH WIRELESS RECEIVER; RECEIVING INPUTS FROM THE WIRELESS CEILING MOUNTED OCCUPANCY SENSOR & THE WIRELESS REMOTE SWITCH.

THIS CONTROL SCHEDULE IS INTENDED TO PROVIDE GENERAL LIGHTING CONTROL DEVICE QUALITY AND PERFORMANCE REQUIREMENTS ONLY. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN THE EXACT MODEL/CATALOG NUMBER OF THE LIGHTING CONTROL DEVICES LISTED ABOVE. THIS LIGHTING CONTROL DESIGN IS BASED ON LUTRON LIGHTING CONTROL DEVICES, CONTRACTOR MUST SUBMIT ANY SUBSTITUTION OF AN APPROVED MANUFACTURER TO THE ENGINEER FOR REVIEW.

LIGHT FIXTURE SCHEDULE

Label	Mounting	Lamp	Description	Luminaire Watts	Voltage
A1	RECESSED	LED	NEW WILLIAMS FT–24–LS–8CS–AF–DIM–UNV , RECESSED 2'X4' LENSED FIXTURE.	27.0	120
A1E	RECESSED	LED	SAME AS ABOVE WITH 90–MINUTE BATTERY PACK	27.0	120
A2	RECESSED	LED	NEW WILLIAMS FT–24–LS–8CS–AF–DIM–UNV , RECESSED 2'X4' LENSED FIXTURE.	39.0	120
A2E	RECESSED	LED	SAME AS ABOVE WITH 90–MINUTE BATTERY PACK	39.0	120
D	RECESSED	LED	WILLIAMS 6DR–TL–L20/840–DIM–UNV–LW–OF–WH–AD–WET/CC–N–FI	20.0	120
L	SURFACE	LED	T.B.D. LED TAPE LIGHT	7W./FT. MAX.	120
X	SURFACE	LED	NEW E–CONOLIGHT #E–XP2GBW EXIT SIGN WITH 90–MINUTE BATTERY PACK. MATCH EXISTING AND DIRECTIONAL ARROWS AS SHOWN ON PLANS.	<5	120
EX	SURFACE	LED	EXISTING E–CONOLIGHT #E–XP2GBW EXIT SIGN WITH 90–MINUTE BATTERY PACK	<5	120

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. FLUORESCENT LIGHTS THAT ARE SHOWN WITH DIMMER CONTROL SHALL BE PROVIDED WITH AN ELECTRONIC DIMMING BALLAST. FLUORESCENT LIGHTS NOT SHOWN DIMMED SHALL HAVE A NON–DIMMING ELECTRONIC BALLAST. ALL LAMPS SHALL MATCH BUILDING STANDARD.

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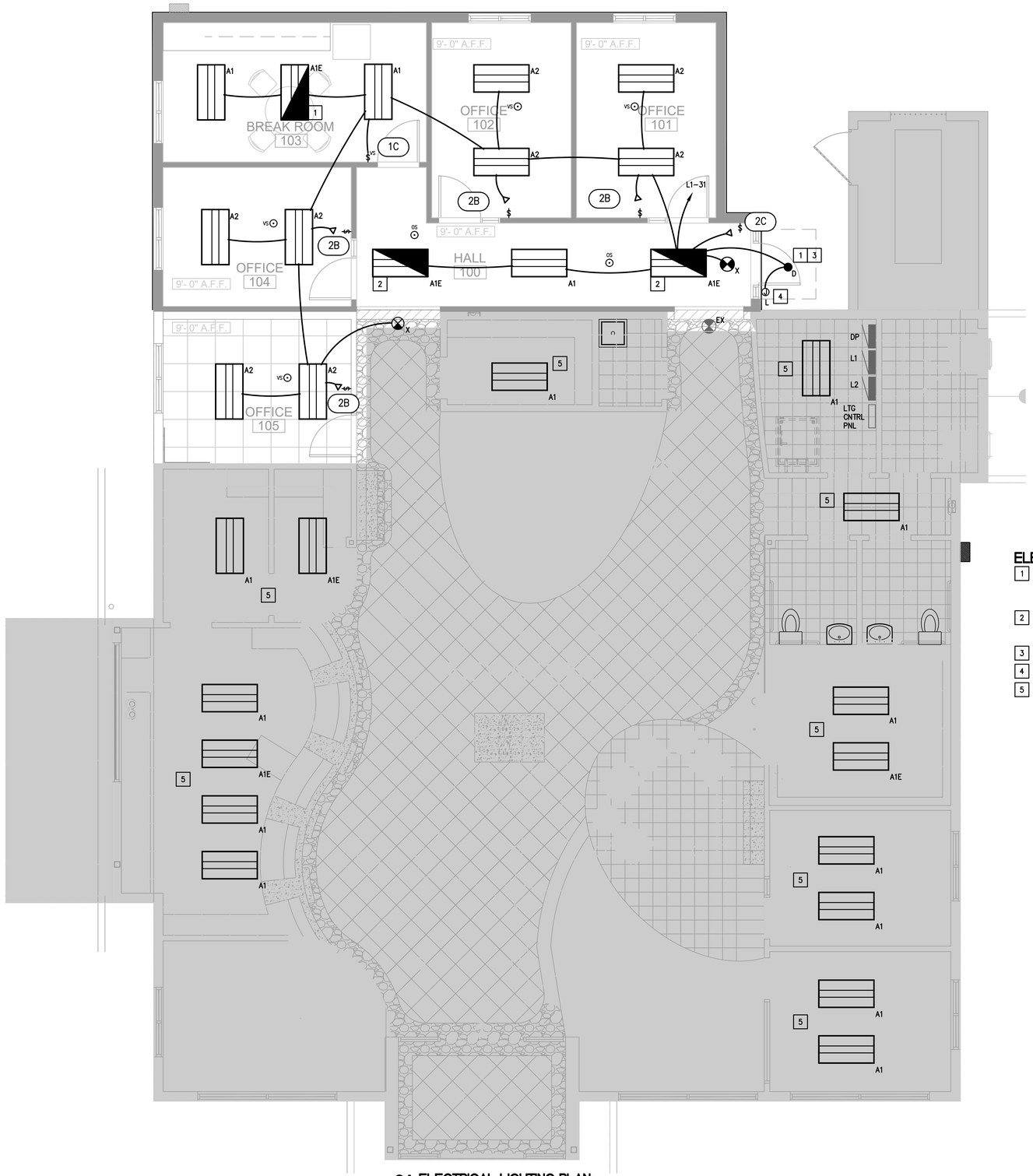
DESIGN TEAM
PM: JG
MECHANICAL: CC
ELECTRICAL: JG
PLUMBING: JG
CHECKED-BY: JG

DRAWING TITLE
ELECTRICAL INFORMATION

SHEET NO.
E-1.00

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Tel: (713) 840-0177 / Firm Reg. No: 5638

JOSE M. GUERRERO 154536 LICENSED PROFESSIONAL ENGINEER
04/30/2026



01 ELECTRICAL LIGHTING PLAN
SCALE: 1/4"=1'-0"

ELECTRICAL LIGHTING KEYED NOTES:

1. CROSS HATCHING INDICATES EMERGENCY LIGHTING. FIXTURE TO BE CONNECTED TO UN-SWITCHED HOT CONDUCTOR WITH 2#10, 1/2"C . PROVIDE FIXTURE WITH 90 MINUTE EMERGENCY BATTERY PACK. FIXTURE TO BE SWTCHED AS SHOWN UNDER NORMAL CONDITIONS.
2. CROSS HATCHING INDICATES EMERGENCY LIGHTING. FIXTURE TO BE CONNECTED TO UN-SWITCHED HOT CONDUCTOR WITH 2#10, 1/2"C . PROVIDE FIXTURE WITH 90 MINUTE EMERGENCY BATTERY PACK. FIXTURE TO RUN CONTINUOUSLY AND UN-SWITCHED.
3. THIS LIGHT FIXTURE TO BE CONTROLLED VIA PHOTOCELL RECEPTOR.
4. CONTROL TAPE LIGHT FIXTURE WITH EXISTING TIMECLOCK.
5. REPLACE EXISTING 2'X4' LIGHT FIXTURES IN THIS AREA. REUSE EXISTING CONTROLS AND CIRCUITS. REPLACE FIXTURES WITH 90-MINUTE BATTERY PACKS WITH A1E FIXTURES. CONTRACTOR TO FIELD VERIFY WHICH LIGHT FIXTURES HAVE 90-MINUTE BATTERY PACK.

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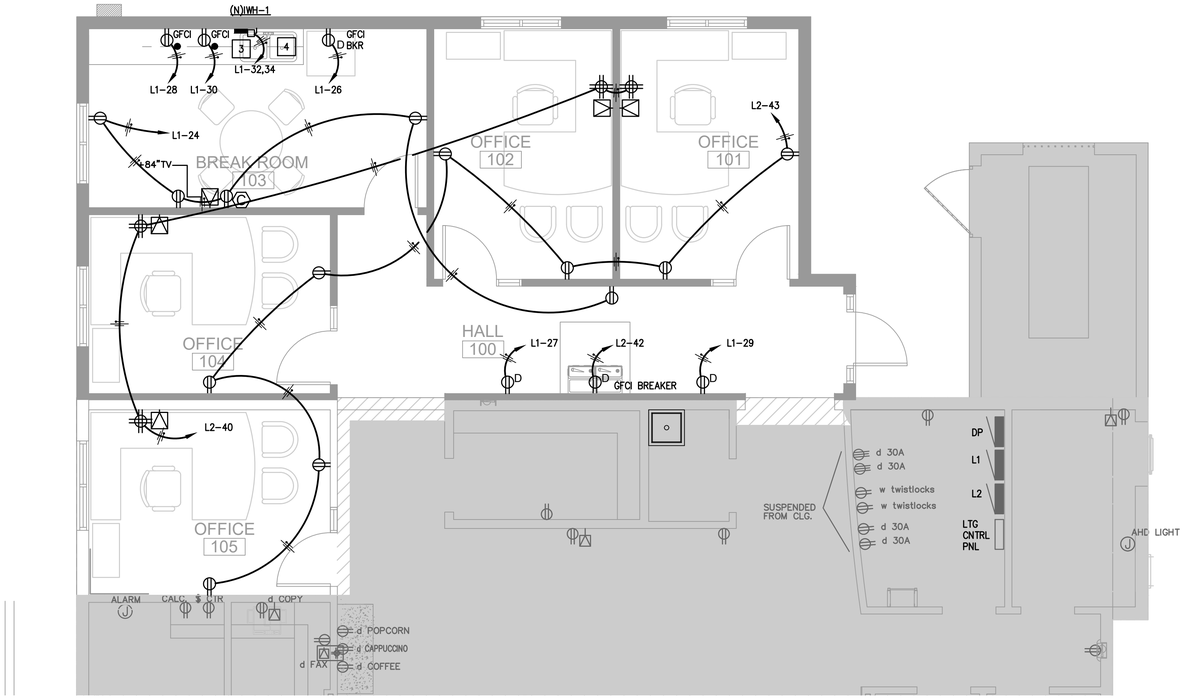
DESIGN TEAM
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MECHANICAL: CC
ELECTRICAL: JG
PLUMBING: JG
CHECKED-BY: JG

DRAWING TITLE
ELECTRICAL LIGHTING PLAN

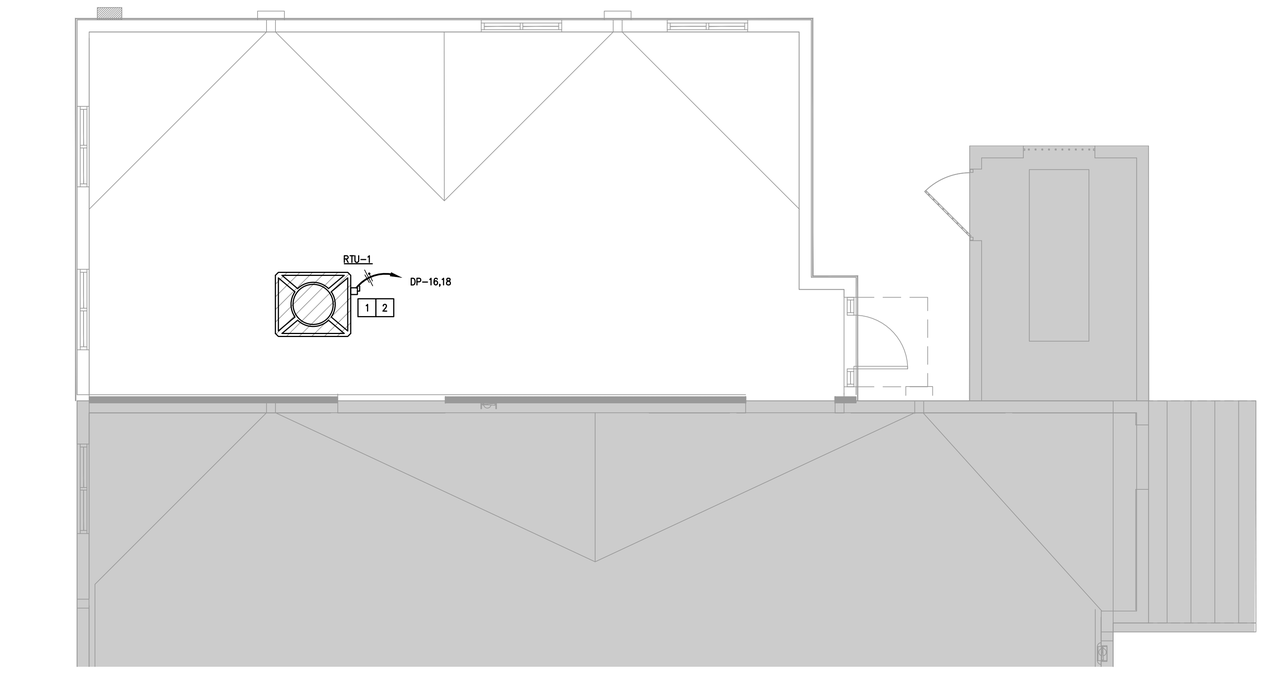
SHEET NO.
E-2.00

E|B|E CONSULTING ENGINEERS
Mechanical
Electrical
Plumbing
12603 Southwest Frwy, Ste 170, Stafford, Tx 77477
Tel: (713) 840-0177 / Firm Reg. No: 5638

JOSE M. GUERRERO
154536
REGISTERED PROFESSIONAL ENGINEER
04/30/2026



01 ELECTRICAL POWER PLAN
SCALE: 1/4"=1'-0"



02 ELECTRICAL POWER PLAN -ROOF
SCALE: 1/4"=1'-0"

ELECTRICAL POWER KEYED NOTES:

1. FACTORY SUPPLIED DISCONNECT INSTALLED BY ELECTRICAL CONTRACTOR.
2. VERIFY THAT EXISTING RECEPTACLE EXISTS WITHIN 25' OF EQUIPMENT OTHERWISE INSTALL A NEW GFCI RECEPTACLE IN WEATHERPROOF ENCLOSURE AND CONNECT TO EXISTING ROOF RECEPTACLE CIRCUIT.
3. PROVIDE 30A./NF/208V./2-POLE/NEMA 1 DISCONNECT IN ACCESSIBLE LOCATION.
4. RELOCATED SINK, FAUCET AND DISPOSAL. EXTEND/REROUTE EXISTING DISPOSAL POWER TO NEW LOCATION AS NEEDED.

SLI DESIGN, INC.

ARCHITECTURE PLANNING INTERIOR DESIGN

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

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NECHES LUMBERTON OFFICE ADDITION
299 Country Lane at U.S. 69
Lumberton, Texas 77657

E/D/E PROJECT NUMBER: 26028.00

ISSUED FOR CLIENT APPROVAL	DATE
ISSUED FOR BIDDING	04/30/2026
ISSUED FOR PERMIT	04/30/2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE
	REVIEW SET	03-27-2026
	90% REVIEW SET	04-13-2026
	BID AND PERMIT	04-30-2026

The information, ideas, designs, details, layouts, techniques, features, arrangements, plans, sequences, dimensions, allowances, tolerances, conceptions, specifications, intentions, technology or embodiments, as illustrated, arranged, displayed, noted, recorded, indicated, represented, disclosed, evidenced, detailed or otherwise reduced to tangible form hereon, either expressly, inherently or by implication, are the confidential and proprietary information of SLI Design, Inc., and shall not be used for any purpose other than the specific project or undertaking identified on the drawing title block or legend for which they are and have been prepared by SLI Design, Inc. Any other reproduction, disclosure or use of any portion of the confidential and proprietary information of SLI Design, Inc., shall be a breach of the obligation of confidence created by the acceptance of this drawing from SLI Design, Inc. for a specific project or Contract. Any copying, duplicating, reproducing, utilization, alteration, modification, revision or change to this drawing, is expressly prohibited unless done with the prior written consent or approval of SLI Design, Inc., and shall not be undertaken without receipt of such prior written approval. This drawing is loaned by SLI Design, Inc., for the limited purpose of complying with a specific Contract. The drawing remains the property of SLI Design, Inc., and shall be returned upon request or completion of the contract, unless specifically authorized by Contract, under which it was loaned.

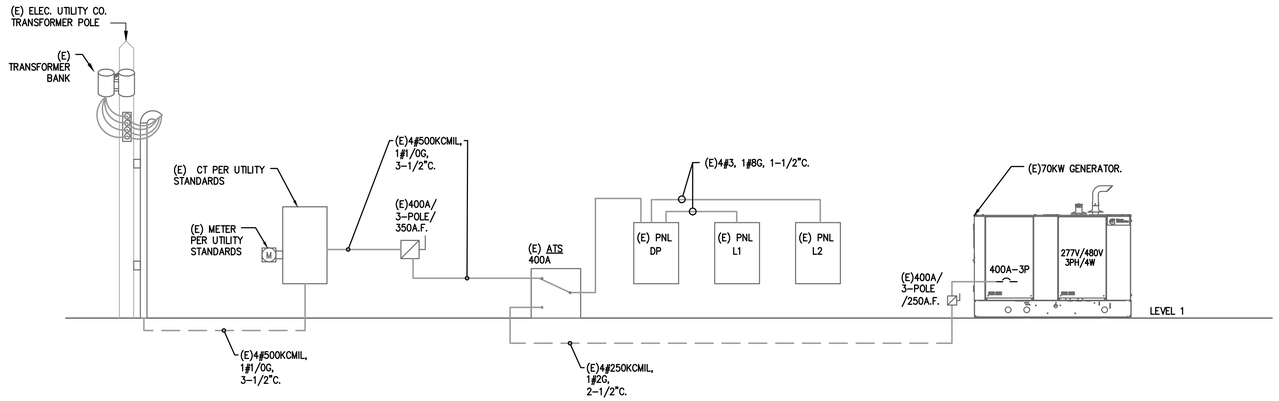
DESIGN TEAM
PM: JG
MECHANICAL: CC
ELECTRICAL: JG
PLUMBING: JG
CHECKED-BY: JG

DRAWING TITLE
ELECTRICAL POWER PLAN

SHEET NO.
E-3.00

E|B|E Mechanical Electrical Plumbing
CONSULTING ENGINEERS
12603 Southwest Fwy, Ste 170, Stafford, Tx 77477
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STATE OF TEXAS
JOSE M. GUERRERO
154536
LICENSED STERED ENGINEER
PROFESSIONAL
04/30/2026



01 EECTRICAL ONE-LINE DIAGRAM
SCALE: NOT TO SCALE

ELECTRICAL LOAD ANALYSIS

PROJECT NAME: NECHES FCU LUMBERTON EXPANSION
PROJECT NUMBER: 26028.00

SERVICE VOLTAGE: 120/208, 3 PHASE, 4 WIRE, WYE

SERVICE RATING: 400 AMPS

GROSS AREA: 1,001 SQUARE FEET

LOAD DESCRIPTION	CODE LOAD (kVA)	CONNECTED LOAD (kVA)	DEMAND FACTORS (%)	DESIGN LOAD (kVA)	REMARKS
LIGHTS (1.3 VA/FT2):	1.3	0.7	125%	1.6	NEC 220.42, 43, 44, 45
SIGN LIGHTS:		0.0	125%	0.0	NEC 220.14.F
SITE LIGHTS:		0.0	125%	0.0	NEC 220.42, 43, 44, 45
RECEPTACLES:	1.0	2.3	10kVA+50%	2.3	NEC 220.14.H, I, J, K, 220.47
EQUIPMENT:		5.2	100%	5.2	NEC 220.14.A
WATER HEATERS:		0.0	100%	0.0	NEC 220.14.A
HVAC:		6.6	100%	6.6	NEC 220.14.C, 220.50
ELECTRIC HEAT:		0.0	100%	0.0	NEC 220.51
LARGEST MOTOR:		0.0	125%	0.0	NEC 430.22
TOTAL DESIGN LOAD:				16	kVA
@ 208V, 3 PHASE:				44	AMPS

NOTE: ALL LOADS AND DEMAND FACTORS ARE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NEC ARTICLE 220

PROJECT NAME: NECHES FCU LUMBERTON EXPANSION
PROJECT NUMBER: 26028.00
PANEL: DP — EXISTING PANEL
VOLTAGE: 120/208V, 3PH, 4W BUS: 400 AMP MAINS: M.L.O. ACCESSORIES:

CODES: 0=LIGHTS 1=RECEP 2=EQUIP 3=A/C 4=HTG 5=125% LGST MTR 6=KITCHEN 7=PREVIOUSLY CALCULATED

CODE	LOAD	CIRCUIT DESCRIPTION		BKR	CKT	PH	CKT	BKR	CIRCUIT DESCRIPTION		LOAD	CODE
7	11581	PANEL L1	*	100/3	1	A	2	100/3	PANEL L2	*	6367	7
7	13314	--	*	--	3	B	4	--	--	*	9867	7
7	10783	--	*	--	5	C	6	--	--	*	8627	7
3	5476	RTU-1	*	50/3	7	A	8	60/3	RTU-3	*	6377	3
3	5476	--	*	--	9	B	10	--	--	*	6377	3
3	5476	--	*	--	11	C	12	--	--	*	6377	3
3	5476	RTU-2	*	60/3	13	A	14	20/1	VAV	*	100	3
3	5476	--	*	--	15	B	16	40/2	RTU-4	****	3328	3
3	5476	--	*	--	17	C	18	--	--	****	3328	3
4	2250	EWH-1	*	30/2	19	A	20		SPACE	***		
4	2250		*	--	21	B	22		SPACE	***		
		SPACE	***		23	C	24		SPACE	***		
		SPACE	***		25	A	26		SPACE	***		
		SPACE	***		27	B	28		SPACE	***		
		SPACE	***		29	C	30		SPACE	***		
		SPACE	***		31	A	32		SPACE	***		
		SPACE	***		33	B	34		SPACE	***		
		SPACE	***		35	C	36		SPACE	***		
		SPACE	***		37	A	38		SPACE	***		
		SPACE	***		39	B	40		SPACE	***		
		SPACE	***		41	C	42		SPACE	***		

LIGHTS	RECEP.	EQUIP.	MOTORS	EL. HEAT	PHASE		PHASE	CONN.KVA	LOAD FACTORS	DES. KVA	DES. AMP
0	0	0	17429	2250	A		A	37.6	LIGHTS @ 125%	19.7	164
0	0	0	20657	2250	B		B	46.1	EQUIP. @ 100%	22.9	191
0	0	0	20657	0	C		C	40.1	LG. MOTOR @125%	20.7	172
0	0	0	58743	4500	TOTAL		TOTAL	123.8	RECEPS @ 10kW+50%	63.2	176

SUB-FEED PANELS:

PANEL NAME	S.F. KVA	LOAD FACTORS	DES. KVA	DES. AMP
PANEL L1	35.7	SUB FEED @ 100%	35.7	99
PANEL L2	24.9	SUB FEED @ 100%	24.9	69
		GRAND TOTAL	123.8	344

* EXISTING CIRCUIT BREAKER - ESTIMATED LOAD
** EXISTING SPARE CIRCUIT BREAKER
*** EXISTING BREAKER SPACE
**** REPLACE EXISTING BREAKER AS SHOWN

PROJECT NAME: NECHES FCU LUMBERTON EXPANSION
PROJECT NUMBER: 26028.00
PANEL: L1 — EXISTING PANEL
VOLTAGE: 120/208V, 3PH, 4W BUS: 100 AMP MAINS: M.L.O. ACCESSORIES:

CODES: 0=LIGHTS 1=RECEP 2=EQUIP 3=A/C 4=HTG 5=125% LGST MTR 6=KITCHEN 7=PREVIOUSLY CALCULATED

CODE	LOAD	CIRCUIT DESCRIPTION		BKR	CKT	PH	CKT	BKR	CIRCUIT DESCRIPTION		LOAD	CODE
0	100	EXT EM LIGHT	*	20/1	1	A	2	20/1	SITE LIGHTING	*	1125	0
0	300	LIGHTING	*	20/1	3	B	4	20/1	--	*	1125	0
0	414	LIGHTING	*	20/1	5	C	6	20/1	SITE LIGHTING	*	900	0
0	824	LIGHTING	*	20/1	7	A	8	20/1	--	*	900	0
0	824	LIGHTING	*	20/1	9	B	10	20/1	SITE LIGHTING	*	1050	0
0	880	LIGHTING	*	20/1	11	C	12	20/1	SIGN	*	1200	0
0	900	LIGHTING	*	20/1	13	A	14	20/1	LANE LIGHTS	*	300	0
0	1200	SIGN	*	20/1	15	B	16	20/1	SIGN	*	1200	0
0	1200	SIGN	*	20/1	17	C	18	20/1	SIGN	*	1200	0
0	1000	LED LIGHT	*	20/1	19	A	20	20/1	SIGN	*	1200	0
0	1200	SIGN	*	20/1	21	B	22	20/1	SIGN	*	1200	0
0	1200	SIGN	*	20/1	23	C	24	20/1	BRKROOM/HALLWAY GP	**	900	1
0	0	TRACK LIGHT	*	20/1	25	A	26	20/1	REF*GFCI BREAKER*	****	800	6
2	600	COIN MACHINE	**	20/1	27	B	28	20/1	SMALL APPLIANCE	**	600	6
2	600	COIN MACHINE	**	20/1	29	C	30	20/1	SMALL APPLIANCE	**	600	6
0	700	OFFICE HALLWAY LIGHTS	****	20/1	31	A	32	25/2	IWH-1	***	2050	4
		SPACE	***		33	B	34	--	--	***	2050	4
		SPACE	***		35	C	36		SPACE	***		
		SPACE	***		37	A	38		SPACE	***		
		SPACE	***		39	B	40		SPACE	***		
		SPACE	***		41	C	42		SPACE	***		

LIGHTS	RECEP.	EQUIP.	MOTORS	EL. HEAT	PHASE		PHASE	CONN.KVA	LOAD FACTORS	DES. KVA	DES. AMP
7049	0	720	0	2050	A		A	9.8	LIGHTS @ 125%	11.6	96
8099	0	1140	0	2050	B		B	11.3	EQUIP. @ 100%	13.3	111
6994	900	1140	0	0	C		C	9.0	LG. MOTOR @125%	10.8	90
22142	900	3000	0	4100	TOTAL		TOTAL	30.1	RECEPS @ 10kW+50%	35.7	99

* EXISTING CIRCUIT BREAKER - ESTIMATED LOAD
** EXISTING SPARE CIRCUIT BREAKER
*** EXISTING BREAKER SPACE
**** REPLACE EXISTING BREAKER AS SHOWN

PROJECT NAME: NECHES FCU LUMBERTON EXPANSION
PROJECT NUMBER: 26028.00
PANEL: L2 — EXISTING PANEL
VOLTAGE: 120/208V, 3PH, 4W BUS: 100 AMP MAINS: M.L.O. ACCESSORIES:

CODES: 0=LIGHTS 1=RECEP 2=EQUIP 3=A/C 4=HTG 5=125% LGST MTR 6=KITCHEN 7=PREVIOUSLY CALCULATED

CODE	LOAD	CIRCUIT DESCRIPTION		BKR	CKT	PH	CKT	BKR	CIRCUIT DESCRIPTION		LOAD	CODE
1	2880	RECEPTACLE	*	30/1	1	A	2	20/1	RECEPTACLES	*	180	1
1	2880	RECEPTACLE	*	30/1	3	B	4	20/1	DISPOSAL	*	500	6
1	180	RECEPTACLE	*	20/1	5	C	6	20/1	RECEPTACLES	*	180	1
1	180	RECEPTACLE	*	20/1	7	A	8	20/1	REF	*	500	6
1	2880	RECEPTACLE	*	30/1	9	B	10	20/1	EDF	*	500	2
1	2880	RECEPTACLE	*	20/1	11	C	12	20/1	RECEPTACLES	*	180	1
1	180	RECEPTACLE	*	20/1	13	A	14	20/1	RECEPTACLES	*	180	1
1	180	RECEPTACLE	*	20/1	15	B	16	20/1	RECEPTACLES	*	180	1
1	720	RECEPTACLE	*	20/1	17	C	18	20/1	RECEPTACLES	*	180	1
1	1080	RECEPTACLE	*	20/1	19	A	20	20/1	RECEPTACLES	*	180	1
1	900	RECEPTACLE	*	20/1	21	B	22	20/1	COPIER	*	1200	2
1	1080	RECEPTACLE	*	20/1	23	C	24	20/1	RECEPTACLES	**	900	1
1	720	RECEPTACLE	*	20/1	25	A	26	20/1	RECEPTACLES	**	720	1
1	360	RECEPTACLE	**	20/1	27	B	28	20/1	RECEPTACLES	**	180	1
1	540	RECEPTACLE	**	20/1	29	C	30	20/1	RECEPTACLES	**	1080	1
1	180	RECEPTACLE	*	20/1	31	A	32	20/1	RECEPTACLES	*	720	1
2	500	DRIVE THRU	*	20/1	33	B	34	20/1	VIDEO	*	500	2
2	500	DRIVE THRU	*	20/1	35	C	36	20/1	AUDIO	*	500	2
2	100	LCP	*	20/1	37	A	38	20/1	SWTCES	*	500	2
2	500	J-BOX	*	20/1	39	B	40	20/1	OFFICE GP	*	1440	1
2	1200	OFFICE PC	****	20/1	41	C	42	20/1	EDF	*	800	2

LIGHTS	RECEP.	EQUIP.	MOTORS	EL. HEAT	PHASE		PHASE	CONN.KVA	LOAD FACTORS	DES. KVA	DES. AMP
0	7200	1100	0	0	A		A	8.3	LIGHTS @ 125%	6.4	53
0	9000	3700	0	0	B		B	12.7	EQUIP. @ 100%	9.9	82
0	7920	3000	0	0	C		C	10.9	LG. MOTOR @125%	8.6	72
0	24120	7800	0	0	TOTAL		TOTAL	31.9	RECEPS @ 10kW+50%	24.9	69

* EXISTING CIRCUIT BREAKER - ESTIMATED LOAD
** EXISTING SPARE CIRCUIT BREAKER
*** EXISTING BREAKER SPACE
**** REPLACE EXISTING BREAKER AS SHOWN

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ARCHITECTURE PLANNING INTERIOR DESIGN
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DESIGN TEAM
PM: JG
MECHANICAL: CC
ELECTRICAL: JG
PLUMBING: JG
CHECKED-BY: JG

DRAWING TITLE
ELECTRICAL SCHEDULES

SHEET NO.
E-4.00

E|B|E CONSULTING ENGINEERS Mechanical Electrical Plumbing
12603 Southwest Frwy, Ste 170, Stafford, Tx 77477
Tel: (713) 840-0177 / Firm Reg. No: 5638

JOSE M. GUERRERO 154536 LICENSED PROFESSIONAL ENGINEER
04/30/2026

FIRE PROTECTION NOTES:

1. PROVIDE A COMPLETE FULLY AUTOMATIC WET PIPE SYSTEM HYDRAULICALLY CALCULATED IN ACCORDANCE WITH THE STATE FIRE MARSHAL AND THE LATEST EDITION N.F.P.A. 13, 14, AND REQUIREMENTS OF ALL LOCAL AUTHORITIES HAVING JURISDICTION.
2. ALL FIRE PROTECTION EQUIPMENT, I.E. PIPING, VALVES, FITTINGS AND ACCESSORIES, ETC. SHALL BE RATED FOR A MAXIMUM WORKING PRESSURE OF 250 PSI.
3. PROVIDE PRESSURE REDUCING VALVES AT ALL SPRINKLER SYSTEM AND FIRE DEPARTMENT HOSE CONNECTIONS WHERE PRESSURES EXCEED 175 PSIG IN ACCORDANCE WITH CODE REQUIREMENTS. CONTRACTOR SHALL FIELD PRESSURE TEST SYSTEM AND DETERMINE WHERE PRESSURE REDUCING VALVES ARE REQUIRED.
4. USE PIPING AND FITTINGS FOR FIRE SUPPRESSION SYSTEMS WHICH ARE APPROVED FOR USE BY UNDERWRITERS' LABORATORIES AND FACTORY MUTUAL SYSTEM ANDS OF THE FOLLOWING TYPES; AND IN ACCORDANCE WITH NFPA, LOCAL CODES ALL AUTHORITIES HAVING JURISDICTION.

   a) BLACK STEEL PIPING: MANUFACTURED TO SATISFY ASTM STANDARDS A53 OR A135.
5. ALL SPRINKLER PIPING SHALL BE INSTALLED SO THAT ALL PORTIONS OF THE SYSTEM CAN BE DRAINED BACK THROUGH THE DRAIN VALVE WHERE REQUIRED. PROVIDE DRAIN VALVES FOR ALL TRAPPED PORTIONS OF THE SYSTEM.
6. ALL FIRE EQUIPMENT THREADS SHALL CONFORM TO LOCAL FIRE DEPARTMENT STANDARDS.
7. ALL CONTROL VALVES – CHECK VALVES AND FLOW ALARM SWITCHES LOCATED ABOVE FINISHED CEILING SHALL BE ACCESSIBLE AND HAVE A NOTIFICATION MARKING TAG AS REQUIRED FOR INSPECTION VERIFICATION.
8. CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL PLUMBING/SPRINKLER PIPING TO MAINTAIN PROPER CLEARANCES OVER AREA.

PLUMBING NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH 2006 INTERNATIONAL PLUMBING CODE.
2. ALL SOIL AND WASTE PIPING SHALL BE INSTALLED AT A MAXIMUM OF 1/8" (1%) PER FOOT GRADE UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
3. PIPING AND/OR EQUIPMENT SHALL NOT BE SUPPORTED FROM STRUCTURAL MEMBERS WITHOUT PRIOR REVIEW AND APPROVAL FROM THE STRUCTURAL ENGINEER.
4. CONTRACTOR IS PROHIBITED FROM USING LEAD–BASED SOLDER.
5. PROVIDE ONE (1) TRAP PRIMER VALVE FOR EACH FLOOR DRAIN WITHOUT A CONSTANT SOURCE OF WATER SUPPLY TO MAINTAIN TRAP SEAL. PRIMER VALVE SHALL BE LOCATED IN AN ACCESSIBLE AREA AND CONNECTED TO THE NEAREST 3/4" COLD WATER LINE SERVING A FIXTURE.
6. BACK FLOW PREVENTER ASSEMBLY SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION (APPROXIMATELY 4'–0" A.F.F.). PIPE RELIEF VALVE DISCHARGE PIPING TO NEAREST FLOOR DRAIN. DO NOT INSTALL ABOVE FINISHED CEILINGS.
7. DOUBLE CHECK VALVE ASSEMBLY SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION (APPROXIMATELY 4'–0" A.F.F.). DO NOT INSTALL ABOVE FINISHED CEILINGS.
8. ALL PLUMBING FIXTURES AND EQUIPMENT SHALL CONFORM TO ALL APPLICABLE ENERGY CONSERVATION CODES.
9. ALL PIPING, VALVES, AND ACCESSORIES SERVING EQUIPMENT SHALL CONFORM TO ALL APPLICABLE ENERGY CONSERVATION CODES.
10. ANCILLARY SYSTEMS NOT ASSOCIATED WITH EQUIPMENT SHALL NOT BE INSTALLED SO AS TO INHIBIT SERVICING AND/OR REMOVAL OF SAID EQUIPMENT.
11. STERILIZE DOMESTIC WATER PIPING SYSTEM IN ACCORDANCE WITH STATE AND LOCAL CODES, AND BASE BUILDING SPECIFICATIONS.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AN ON–SITE FLOW TEST AT THE NEAREST FIRE HYDRANT. THE RESULTS OF THIS TEST SHALL BE SUBMITTED TO THE ENGINEER OF RECORD UPON COMPLETION OF THE TEST.

GENERAL NOTES:

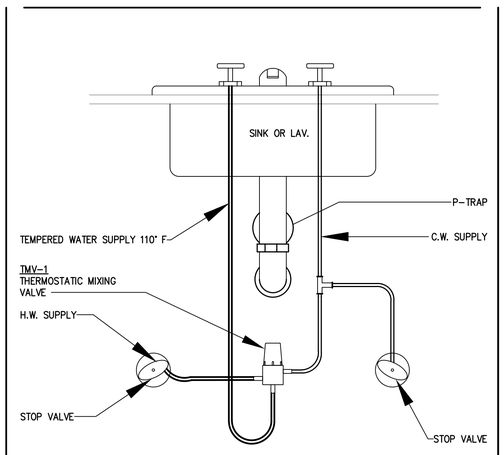
1. ALL CONTRACT DOCUMENTS (SPECIFICATIONS AND DRAWINGS), I.E., ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL ARE COMPLEMENTARY AND MUST BE USED IN COMBINATION TO OBTAIN COMPLETE CONSTRUCTION INFORMATION.
2. ALL CONFLICTS, WHICH MAY PREVENT THE COMPLETION OF WORK AS INTENDED, SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION. THE CONTRACTOR SHALL NOT PROCEED WITH ANY RELATED WORK UNTIL ALL CONFLICTS ARE RESOLVED AND THE CLARIFYING INFORMATION IS ISSUED TO THE CONTRACTOR BY THE ARCHITECT.
3. IT IS THE INTENTION OF THESE DRAWINGS TO CALL FOR FINISHED WORK, I.E., FULLY ADJUSTED, TESTED, AND READY FOR OPERATION. WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN, "FURNISH AND INSTALL COMPLETE AND READY FOR USE."
4. THE PLUMBING DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW EVERY COMPONENT AND/OR ACCESSORY REQUIRED FOR A COMPLETE INSTALLATION. THE CONTRACTOR SHALL INCLUDE SUCH ITEMS AS ARE REQUIRED TO ENSURE THAT THE ENTIRE SYSTEM IS FUNCTIONING IN COMPLIANCE WITH APPLICABLE CODES, ACCEPTED INDUSTRY STANDARDS, AND MANUFACTURER'S INSTALLATION REQUIREMENTS/RECOMMENDATIONS UPON COMPLETION OF THE WORK.
5. ALL CUTTING, DRILLING AND PATCHING OF WALLS, FLOORS, AND/OR STRUCTURAL MEMBERS FOR THE INSTALLATION OF THE PLUMBING AND FIRE PROTECTION SYSTEMS SHALL BE PROVIDED. STRUCTURAL COMPONENTS SHALL NOT BE CUT, DRILLED OR MODIFIED IN A WAY WITHOUT THE STRUCTURAL ENGINEER'S REVIEW AND PRIOR WRITTEN APPROVAL.
6. PROVIDE NFPA APPROVED FIRE STOPPING WHERE PIPES PENETRATE FIRE RATED FLOORS AND WALLS.

ELECTRIC TANKLESS WATER HEATER SCHEDULE

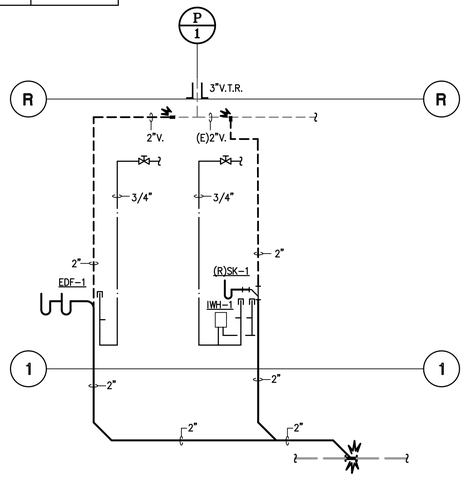
MARK	SERVICE	STORAGE IN GALLONS	RECOVERY AT 100° RISE	ELECTRICAL	ELEMENT WATTAGE	MAKE AND MODEL
IWH–1	INSTANTANEOUS WATER HEATER	---	---	208/1ø/60Hz	4.1kw	EEMAX TANKLESS MODEL SPEX4208TML WITH BOTTOM CONNECTION.

PLUMBING FIXTURE AND CONNECTION SCHEDULE

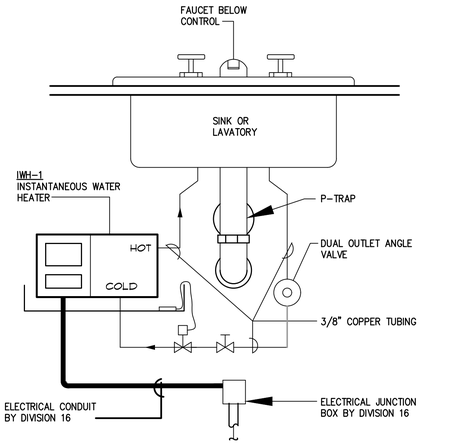
SYMBOL	DESCRIPTION	SIZE OF CONNECTION TRAP	SS	SV	CW	HW	REMARKS	WATER CONSERVATION
EDF–1	ELECTRIC DRINKING FOUNTAIN	1–1/4"	2"	2"	1/2"	--	HALSEY TAYLOR HVRBHD–BL ADA BARRIER–FREE TWO LEVEL WALL MOUNT FOUNTAIN WITH CANE TOUCH APRON. McGUIRE NO. 8088 CHROME–PLATED ADJUSTABLE P–TRAP WITH CLEANOUT PLUG, 1–1/4" TRAP NIPPLE AND CHROME–PLATED STOP VALVE IN COLD WATER LINE LOCATED INSIDE CABINET. REFER TO ARCHITECT FOR MOUNTING HEIGHTS.	



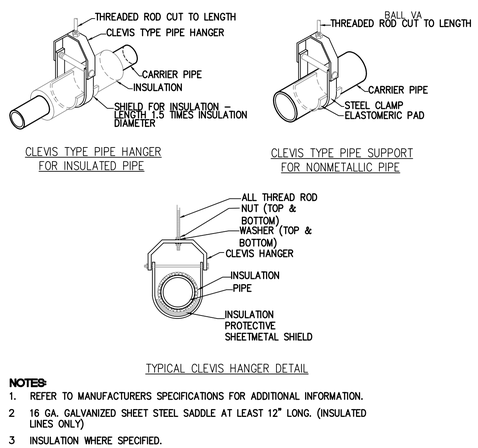
THERMOSTATIC MIXING VALVE TMV–1 02
SCALE: NONE



01 PLUMBING RISER DIAGRAM
SCALE: NONE



INSTANTANEOUS WATER HEATER DET. 03
SCALE: NONE



CLEVIS TYPE PIPE HANGER FOR INSULATED PIPE

CLEVIS TYPE PIPE SUPPORT FOR NONMETALLIC PIPE

TYPICAL CLEVIS HANGER DETAIL

NOTES:
1. REFER TO MANUFACTURERS SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. 16 GA. GALVANIZED SHEET STEEL SADDLE AT LEAST 12" LONG. (INSULATED LINES ONLY)
3. INSULATION WHERE SPECIFIED.

CLEVIS PIPE HANGER SUPPORT DETAIL 04
SCALE: NONE

PLUMBING LEGEND

SYMBOL	DESCRIPTION
	SANITARY SEWER PIPING
	VENT PIPING
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
	EXISTING SANITARY SEWER PIPING
	EXISTING VENT PIPING
	EXISTING DOMESTIC COLD WATER
	EXISTING HOT WATER
	EXISTING HOT WATER RETURN
	NEW CONNECTION TO EXISTING
AFF	ABOVE FINISHED FLOOR
BF	BELOW FLOOR
	GATE VALVE
	CHECK VALVE
	PRESSURE RELIEF VALVE
	UNION
	PRESSURE GAUGE
	THERMOMETER
	CONDENSATE DRAIN LINE
(E)	EXISTING
(D)	ITEMS TO BE REMOVED
	ELBOW UP
	ELBOW RISE OR DN. THROUGH SLAB
	FLOOR CLEANOUT
	CLEANOUT
	FLOOR DRAIN

DISREGARD LEGEND ITEMS NOT INDICATED ON DRAWINGS

PIPING MATERIAL SCHEDULE

PIPING FUNCTION	PIPING MATERIAL
SANITARY WASTE BELOW GRADE	SCHEDULE 40 PVC
SANITARY WASTE ABOVE GROUND	NO–HUB CAST IRON OR SCHEDULE 40 PVC
SANITARY VENT	NO–HUB CAST IRON OR SCHEDULE 40 PVC
DOMESTIC HOT & COLD WATER	COPPER, TYPE "L" HARD DRAWN
FIRE SPRINKLER ABOVE GROUND	BLACK STEEL SCHEDULE 40

NOTE:
NO HUB COUPLING SHALL HAVE A SHIELD CONSTRUCTED OF 304 CORRUGATED STAINLESS STEEL WITH A MINIMUM THICKNESS OF .016. COUPLING SIZE 1–1/2" – 4" SHALL HAVE FOUR (4) BANDS: APPROVED MANUFACTURES HUSKY SD 4000 AND MISSION. NO TWO BANDS ARE ACCEPT

LEGEND OF PLUMBING SYMBOLS
DISREGARD LEGEND ITEMS NOT INDICATED ON DRAWINGS

FIXTURES

SYMBOLS	DESCRIPTION	SIZE OF CONNECTION SANITARY	TRAP	VENT	C.W.	H.W.	I.W.
W C	WATER CLOSET (FLUSH VALVE)	4"	–	2"	1"	–	–
U	URINAL	2"	–	2"	3/4"	–	–
L	LAVATORY	2"	1–1/4"	1–1/4"	1/2"	1/2"	–
BT	BATH TUB	2"	1–1/2"	1–1/2"	1/2"	1/2"	–
MS	MOP SINK	–	2"	2"	1/2"	1/2"	–
SK–"X"	SINK (BY ARCHITECT)	–	1–1/2"	2"	1/2"	1/2"	–
SH	SHOWER	–	2"	2"	1/2"	1/2"	–
EDF	ELECTRIC DRINKING FOUNTAIN	–	1–1/4"	1–1/4"	1/2"	–	–
DF	DRINKING FOUNTAIN	–	1–1/4"	1–1/4"	1/2"	–	1/2"

SLI DESIGN, INC.
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HOUSTON, TEXAS 77084
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NECHES LUMBERTON OFFICE ADDITION
299 Country Lane at U.S. 69
Lumberton, Texas 77657

E/B/E PROJECT NUMBER: 25028.00

ISSUED FOR CLIENT APPROVAL	DATE
ISSUED FOR BIDDING	04/30/2026
ISSUED FOR PERMIT	04/30/2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE
	REVIEW SET	03-27-2026
	90% REVIEW SET	04-13-2026
	BID AND PERMIT	04-30-2026

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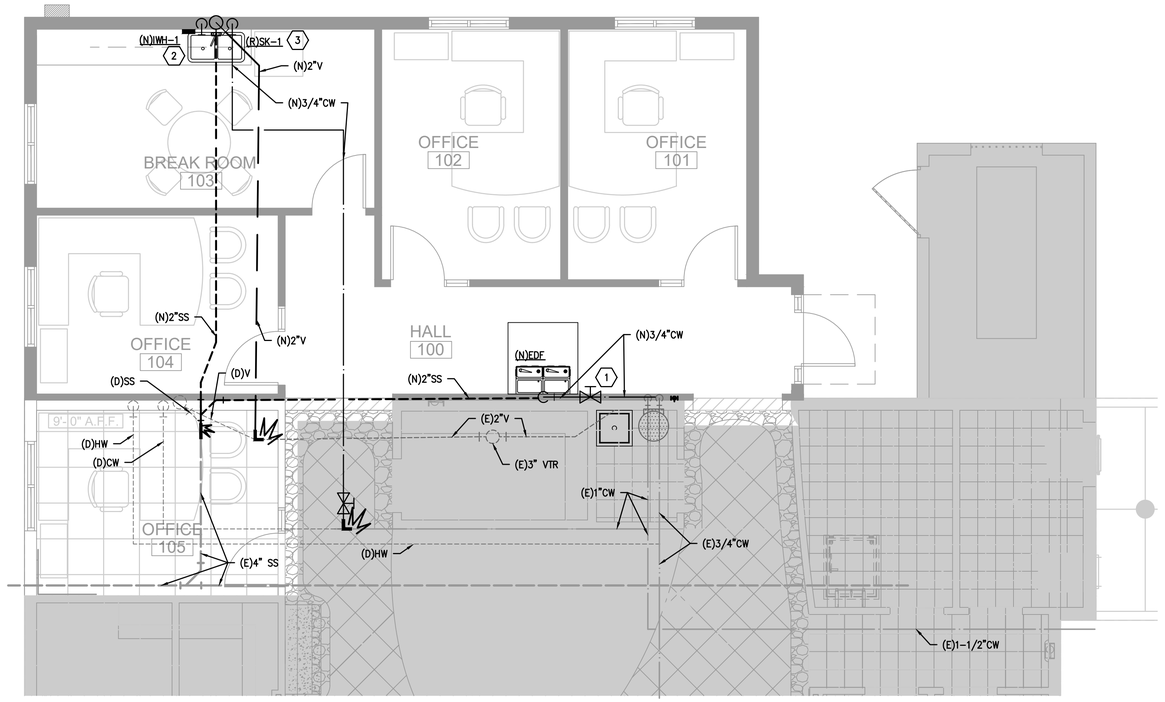
DESIGN TEAM
PM: JG
MECHANICAL: CC
ELECTRICAL: JG
PLUMBING: JG
CHECKED-BY: JG

DRAWING TITLE
PLUMBING INFORMATION

SHEET NO.
P-1.00

E|B|E CONSULTING ENGINEERS Mechanical Electrical Plumbing
12603 Southwest Fwy, Ste 170, Stafford, Tx 77477
Tel: (713) 840-0177 / Firm Reg. No: 5638

STATE OF TEXAS
JOSE M. GUERRERO
154536
LICENSED STEAM FITTER
PROFESSIONAL
04/30/2026



01 PLUMBING PLAN
SCALE: 1/4"=1'-0"

PLUMBING KEYED NOTES:

1. LOCATE VALVE IN CEILING SPACE IN CORRIDOR.
2. NEW INSTANTANEOUS WATER HEATER BELOW MILLWORK. REFER TO SCHEDULE AND DETAILS. TYPICAL.
3. RELOCATE EXISTING SINK, FAUCET AND DIPOSAL AS SHOWN.

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JOSE M. GUERRERO
154536
REGISTERED PROFESSIONAL ENGINEER
04/30/2026

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PLUMBING PLAN

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