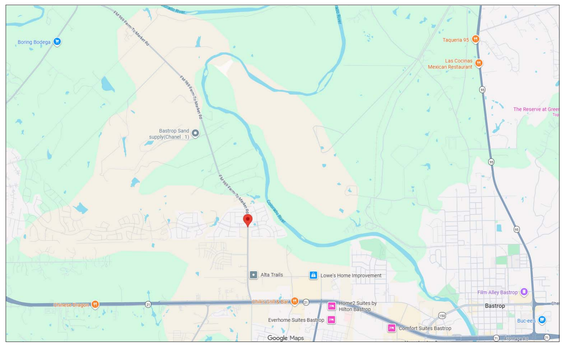
National Bank & Trust - Bastrop

264 FM 969 BLDG. 3
BASTROP, TX 78602

RENDERING



VICINITY MAP



GENERAL

T-1.00	TITLE SHEET
T-1.10	GENERAL NOTES
T-1.20	BUILDING ENVELOPE ANALYSIS
T-1.30	FIRE APPARATUS SITE ACCESS PLAN
T-1.40	LIFE SAFETY PLAN

CIVIL

C-1	COVER SHEET
C-2	GENERAL & CONSTRUCTION NOTES
C-3	FINAL PLAT (1 OF 2)
C-4	FINAL PLAT (2 OF 2)
C-5	EROSION CONTROL PLAN
C-6	EROSION CONTROL NOTES & DETAILS
C-7	SITE PLAN
C-8	UTILITIES PLAN
C-9	STORM SEWER PLAN
C-10	GRADING PLAN
C-11	DRAINAGE PLAN
C-12	PAVEMENT PLAN
C-13	CONSTRUCTION DETAILS (1 OF 2)
C-14	CONSTRUCTION DETAILS (2 OF 2)
C-15	WATER DETAILS
C-16	WASTEWATER DETAILS

ARCHITECTURAL SITE

SP-1.00	OVERALL DEVELOPMENT SITE PLAN
SP-1.10	SITE PLAN
SP-2.10	SITE PLAN DETAILS
SP-2.20	SITE PLAN DETAILS
SP-2.30	SITE PLAN DETAILS
L1	LANDSCAPE PLAN
L2	LANDSCAPE PLAN
IR1	IRRIGATION CONCEPT

ARCHITECTURAL

A-0.00	ACCESSIBILITY ROUTE COMPLIANCE
A-0.10	ACCESIBILITY ELEMENT COMPLIANCE
A-1.00	FLOOR PLAN
A-1.10	FLOOR PLAN-ANNOTATION
A-1.20	ENLARGED PLAN DETAILS
A-1.30	PLAN DETAILS
A-1.40	PLAN DETAILS
A-2.00	DOOR SCHEDULE
A-2.10	WINDOW SCHEDULE
A-3.00	INTERIOR PARTITIONS
A-4.00	RCP
A-4.10	ATTIC PLATFORM
A-4.20	CEILING DETAILS
A-5.00	ROOF PLAN
A-5.10	ROOF DETAILS
A-6.00	EXTERIOR BUILDING ELEVATIONS
A-6.10	EXTERIOR BUILDING ELEVATIONS
A-7.00	BUILDING SECTIONS
A-7.10	BUILDING SECTIONS
A-8.00	WALL SECTIONS
A-8.10	WALL SECTIONS
A-9.00	EXTERIOR TRIMS
A-9.10	TYP. DETAILS
A-10.00	INTERIOR ELEVATIONS
A-10.01	INTERIOR ELEVATIONS
A-11.00	MILLWORK DETAILS

ARCHITECTURAL

A-11.01	INTERIOR TRIM/MOLDING
A-12.00	FINISHED FLOOR
A-12.01	BANK EQUIPEMENT
A-12.02	RESTROOM ACCESSORIES
A-13.00	POWER PLAN
A-14.00	INTERIOR SIGNAGE
A-14.10	EXTERIOR SIGNAGE

STRUCTURAL

S000	GENERAL NOTES
S001	GENERAL NOTES
S002	GENERAL NOTES
S003	TESTING AND INSPECTIONS
S101	FOUNDATION PLAN
S201	ROOF FRAMING PLAN
S202	HIGH ROOF FLOOR FRAMING PLAN
S301	FOUNDATION DETAILS
S302	TYPICAL FOUNDATION DETAILS
S303	TYPICAL FOUNDATION DETAILS
S401	FRAMING DETAILS
S402	FRAMING DETAILS
S403	FRAMING DETAILS

MEP

MEP-1.00	MEP SPECIFICATIONS
MEP-2.00	MEP SPECIFICATIONS
MEP-3.00	MEP SPECIFICATIONS
MEP-4.00	MEP SITE PLAN
M-0.10	MECHANICAL INFORMATION
M-1.10	MECHANICAL PLAN
M-2.10	MECHANICAL DETAILS
E-0.10	ELECTRICAL INFORMATION
E-1.10	ELECTRICAL LIGHTING PLAN
E-2.10	ELECTRICAL POWER PLAN
E-3.10	ELECTRICAL PLAN - ATTIC
E-4.10	ELECTRICAL SCHEDULES
E-5.10	ELECTRICAL DETAILS
E-6.10	GENERATOR SPECIFICATIONS
E7.10	INTERIOR LIGHTING PHOTOMETRICS
E8.10	EXTERIOR LIGHTING PHOTOMETRICS
P-0.10	PLUMBING INFORMATION
P-1.10	PLUMBING PLAN
P-2.10	PLUMBING SPEC SHEETS
P-2.20	PLUMBING SPEC SHEETS
P-3.10	PLUMBING DETAILS
P-4.10	PLUMBING RISERS

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

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	4	WINDOW TYPE		
A4.0	ENLARGED DETAIL REFERENCE	000	DOOR IDENTIFICATION	CL	CENTERLINE
A6.0	EXTERIOR ELEVATION	OFFICE 325	ROOM NAME ROOM NUMBER		BREAK LINE
A7.0 A7.0 A7.0	BUILDING SECTION	02/A10.0	INTERIOR ELEVATION		SPOT ELEVATION
A8.0 A8.0	WALL SECTION	2'-0" 2'-0"	DIMENSION LINES		
2X3.1	SECTION DETAIL		MATCH LINE		
FIRST FLOOR 0"	VERTICAL ELEVATION	3	REVISION NUMBER & AFFECTED AREA		
		FE	FIRE EXTINGUISHER		

TYPICAL MOUNTING HEIGHTS:

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

GENERAL NOTES:

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

SEPTEMBER 11,2026: ISSUED FOR BID AND PERMIT

BUILDING CODE AND PROJECT INFORMATION

LEGAL DESCRIPTION
TYPE LEGAL DESCRIPTION

SCOPE OF WORK
DESIGN AND BUILD A 2,947 SQ. FT. BANK WITH A 3-LANE DRIVE-THRU CANOPY AND ONE LANE ATM CANOPY

BUILDING CODE
2018 IBC WITH CITY OF BASTROP AMENDMENTS
2023 NEC WITH CITY OF BASTROP AMENDMENTS
2018 IPC WITH CITY OF BASTROP AMENDMENTS
2018 IFC WITH CITY OF BASTROP AMENDMENTS
2018 IECC WITH CITY OF BASTROP AMENDMENTS
2018 IMC WITH CITY OF BASTROP AMENDMENTS

OCCUPANCY CLASSIFICATION, EGRESS & OCCUPANT LOADS

OCCUPANCY TYPE:	B-BUSINESS
CONSTRUCTION TYPE:	VB
ALLOWABLE HEIGHT:	40'-0"
ACTUAL HEIGHT:	26'-0"FT
ALLOWABLE BUILDING AREA PER FLOOR:	9,000 S.F
ACTUAL BUILDING AREA:	2,947 S.F
TOTAL:	2,974 S.F
OCCUPANT LOAD: FACTOR:	B-BUSINESS 150 GROSS SQ.FT./ OCCUPANTS
TOTAL:	20 OCCUPANTS
EXIST REQUIRED:	1
EXIST PROVIDED:	2
MAXIMUM ALLOWABLE TRAVEL DISTANCE:	100FT.
MAXIMUM ACTUAL TRAVEL DISTANCE:	82FT.
AREAS OF REFUGE REQUIRED:	ROOM N/A

PLUMBING FACILITIES

	REQUIRED	PROVIDED
WATER CLOSETS FOR MEN PER FLOOR:	1	1
WATER CLOSETS FOR WOMEN PER FLOOR:	1	1
LAVATORIES FOR MEN PER FLOOR:	1	1
LAVATORIES FOR WOMEN PER FLOOR:	1	1

TDLR FILE NUMBER EAB PROJECT NUMBER:
TABS#########

FIRE RESISTANCE (HRS.)

EXTERIOR BEARING WALLS	0
INTERIOR BEARING WALLS	0
STRUCTURAL FRAME	0
CORRIDORS	0
SHAFT ENCLOSURE	0
ROOFS/CEILINGS:	0
EXTERIOR DOORS AND WINDOWS	0
SMOKE BARRIER SEPERATIONS	0

FIRE EXTINGUISHERS	CLASS	MAX. SEP.
	2A	75 FT.

ALARM SYSTEMS	REF: N//A
SPRINKLER:	NO/PARTIAL/YES
SPRINKLER TYPE:	NFPA 13/NFPA13R/NFPD 13D/OTHER
STANDPIPE:	NO/PARTIAL/YES
CLASS:	I/II/III/WET/DRY

SITE

CURRENT ZONING:
PROPOSED ZONING:

REQUIRED SET BACKS
FRONT:
BACK:
SIDES:

PARKING SPACES REQUIRED:	12
PARKING SPACES PROVIDED:	22
ACCESSIBLE PARKING SPACES REQUIRED:	01
ACCESSIBLE PARKING SPACES PROVIDED:	01

PROJECT TEAM

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713-465-4650

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SURVEYOR

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BASTROP, TX 78602
Project Number : 8989

ISSUED FOR	DATE
ISSUED FOR CLIENT APPROVAL	08.17.2026
ISSUED FOR BIDDING	09.11.2026
ISSUED FOR PERMIT	09.11.2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE
A	ADDENDUM A	09.18.26

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09/18/26

DRAWING TITLE
TITLE SHEET

DRAWN BY	RG
CHECKED BY	BL
APPROVED BY	TB
SHEET NO.	T-1.00

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1 BUILDING PLANNING & DESCRIPTION

■ NEW CONSTRUCTION	☐ SHELL BUILDING
☐ LEASE SPACE BUILD-OUT (LSBO)	☐ CHANGE OF OCCUPANCY
☐ SUBSTANTIAL IMPROVEMENT	☐ OTHER: REMODEL & ADDITION

	MIXED OCCUPANCY	
■ SINGLE OCCUPANCY	☐ SEPARATED USE	☐ NON-SEPARATED USE

(SECTION 508.3 OR 508.4 IBC 2018)

TYPE OF CONSTRUCTION: VB *(CHAPTER 6 IBC 2018)*

HEIGHT LIMITATION PER IBC: 40'-0"

ALLOWABLE NUMBER OF STORIES ABOVE GRADE PER IBC: 2

ALLOWABLE AREA PER IBC: 9,000 SF

BUILDING INFORAMATION

ADDRESS: _____

CITY, ST: BASTROP, TX ZIP CODE: XXXXX

BUILDING SQUARE FOOTAGE: 2,947 SQ FT

#OF FLOORS: 1 BLDG. HEIGHT: 26'-0"

2 OCCUPANCY TYPE AND LOAD
CHAPTER 2, 3 & TABLE 1004.5 IBC 2018

OCCUPANCY CLASSIFICATION TYPES						
A-1	A-2	A-3	A-4	A-5	B	E
F-1	F-2	H-1	H-2	H-3	H-4	H-5
I-1	I-2	I-3	I-4	M	R-1	R-2
	R-3	R-4	S-1	S-2	U	
BREAK DOWN AREAS AND OCCUPANT LOADS						
RE: T-1.00 & T-1.30						

2 MEANS OF EGRESS
CHAPTER 10 IBC 2018

MEANS OF EGRESS	# OF REQUIRED EXITS	# OF EXITS PROVIDED
STAIRWAYS (PER FLOOR)	N/A	N/A
EGRESS @ 1ST FL OR LSBO	1	2

(SECTION 1006.3.2 IBC 2018)

PANIC HARDWARE ON EXIT DOORS? YES ■ NO ☐ *(SECTION 1008.1.9 IBC 2015)*

DOORS *(SECTION 1010 IBC 2018)*

MINIMUM CLEAR WIDTH SHOWN ON: T-1.40

EGRESS WIDTHS ARE SHOWN ON: T-1.40

ACCESSIBLE AREAS OF REFUGE & 2-WAY COMMUNICATIONS SHOWN ON: N/A

EXIT SIGNS/EGRESS ILLUMINATION *(SECTION 1008 IBC 2018)*

REQUIRED AND SHOWN ON: T-1.40 & E-1.10

EXTERIOR EMERGENCY LIGHTING PROVIDED? YES ■ NO ☐

EXIT TRAVEL DISTANCE *(TABLE 1017.2 IBC 2018)*

OCCUPANCY TYPE	MAX TRAVEL DISTANCE	PROVIDE TRAVEL DISTANCE
B	250'-00"	RE: T-1.40

ELEVATORS (CHAPTER 30)

NEW ☐ EXISTING ☐ NONE PROVIDED ■

ELEVATOR KEYBOX LOCATED IN LOBBY? (MUST BE WITHIN 20' OF THE CALL BUTTON) YES ☐ NO ■

ELEVATOR CAN ACCOMODATE STRETCHER 24" X 84" (5 OR MORE STORIES) N/R ■ YES ☐ NO ☐

ELEVATOR LOBBY PROVIDED N/R ■ YES ☐ NO ☐

3 SET BACKS/LIMITATIONS

BUILDING SET BACKS (FEET)	**RE: CIVIL DWGS.**
UTILITYEASEMENT SET BACKS (FEET)	**RE: CIVIL DWGS.**
DISTANCE FROM OTHER STRUCTURES LOT LINE SHOWN ON SITE PLAN YES ☐ NO ■	**RE: SURVEY & SP-1.00**
ROOF OR AWNING PROJECTIONS SHOWN AND MEASURED ON SITE PLAN YES ■ NO ☐	**RE: SP-1.00**

4 FIRE-RESISTANCE RATE CONSTRUCTION
CHAPTER 9 IBC & IFC 2018

ALL FIRE PROTECTION PLANS SHALL BE SUBMITTED FOR REVIEW AFTER BUILDING PERMIT HAS BEEN ISSUED
(I.E. UNDERGROUND FIRE LINE, SPRINKLER SYSTEM, FIRE ALARM SYSTEM, STANDPIPE, FIRE PUMP ROOM, AND FIRE PROTECTION WATER SUPPLY SYSTEMS)

FIRE PROTECTION SYSTEMS CONT.

AUTOMATIC FIRE SPRINKLER SYSTEM/ALTERNATIVE AUTOMATIC FIRE EXTINGUISHING SYSTEM ALL SPRINKLERS SHALL COMPLY WITH MONITORING

☐ PROVIDED AS NOTED ON: N/A ■ NOT REQUIRED PER SECTION 903

SYSTEM PROVIDED:
☐ NFPA 13
☐ NFPA 13R
☐ NFPA 13D
☐ OTHER: _____

SPRINKLER HEAD PROVIDED:
☐ STANDARD
☐ ELO
☐ ESFR
☐ QUICK RESPONSE

FIRE DEPARTMENT ACCESS TO SPRINKLER CONTROLS:
☐ SPRINKLER RISER ROOM OR POST INDICATOR VALVE SHOWN ON: N/A *(SECTION 901.4.6.1 BASTROP AMENDMENTS IFC 2018)*

☐ FDC SHOWN ON: _____ *(FDC SHALL COMPLY WITH SECTION 912 IFC 2018)*

KEYBOX LOCATED AT FIRE RISER N/A

KEYBOX LOCATED AT GATES N/A

FIRE ALARM & DETECTION SYSTEMS *(SECTION 907 & BASTROP AMENDMENTS IFC 2018)*

SUPPRESSION SYSTEM PROVIDED *(SECTION 904 IFC 2018)*
☐ EXISTING FIRE ALARM WITH VOICE/ALARM COMMUNICATION SYSTEMS
■ NOT REQUIRED

STANDPIPE SYSTEM & HOSE CONNECTIONS *(SECTION 905 IFC 2018)*
(I.E. IN STAIRWAYS, STAGES, MALLS)
☐ PROVIDED AS NOTED ON: _____, TYPE OF SYSTEM PROVIDED: _____ *(CLASS I, II OR III)*
■ NOT REQUIRED PER SECTION 905

PORTABLE FIRE EXTINGUISHERS *(SECTION 906 IFC 2018)*
■ PROVIDED AS NOTED ON: RE: T-1.40 , NUMBER PROVIDED FOR ADDITION: 2

☐ FIRE ALARM SYSTEM (TIED TO SPRINKLER)
■ NOT REQUIRED PER SECTION 907
☐ EMERGENCY VOICE EVACUATION
☐ MANUAL ALARM PROVIDED
☐ OTHER: _____
☐ DEFERRED SUBMITTAL

☐ DEDICATED FUNCTION (SPRINKLER MONITORING, ELEVATOR RECALL, PRE-ACTION, EMERGENCY ALARM, SMOKE CONTROL)

5 FIRE-RESISTANCE RATE CONSTRUCTION
CHAPTER 2, 3 & TABLE 1004.1.2 IBC 2018

SHOW DETAILS OF FIRE WALLS OR FIRE BARRIERS MEETING HORIZONTAL WALLS AND ROOF DECKS
(SEE SECTION 706.5, 706.6 & 707.5 IBC 2018)

FIRE-RESISTANCE RATING REQUIREMENTS *(TABLES 601, 602 & 602.4 IBC 2018)*

BUILDING ELEMENTS	HOURS REQUIRED	PROVIDED	TYPE VB
STRUCTURAL FRAME	0	0	
EXTERIOR BEARING WALLS	0	N/A	
EXTERIOR NON-BEARING WALLS	0	N/A	
INTERIOR BEARING WALLS	TABLE 602	0	
INTERIOR NON-BEARING WALLS	0	N/A	
FLOOR /HORIZONTAL ASSEMBLIES	0	0	
ROOF CONSTRUCTION	0	0	
STAIRWELLS *(SECTION 1019)*	N/A		
ELEVATOR SHAFTS *(SECTION 713)*	N/A		
CORRIDORS *(SECTION 1020.1)*	0	0	
FIRE RATED DOORS *(TABLE 716.5)*	0	N/A	
DEMISING/PARTITION WALL *(SECTION 708)*	0	N/A	
FIRE BARRIER *(SECTION 707)*	0	N/A	
FIRE WALL *(SECTION 706)*	0	N/A	
DRAFTSTOPS: ☐ YES, SHOWN ON: _____ ☐ NO (SPRINKLED ATTIC) ■ N/A *(SECTION 718.4)*			
HAVE YOU CHECKED WIDTH OF OPENINGS IN FIRE RATED WALLS? YES ☐ NO ☐ N/A ■ *(TABLE 705.8, SECTION 706.8 & 707.6 IBC 2018)*			
FIRE SEPARATION DISTANCE (FEET) *(SECTION 602 IBC 2018)*	96'-6" NORTH	127'-4" SOUTH	38'-7" EAST / 26'-2" WEST
ROOF COVERING CLASSIFICATION MIN: *(TABLE 1505.1 IBC 2018)*	A ☐ B ☐ C ■		

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REVISIONS

MARK	DESCRIPTION	DATE

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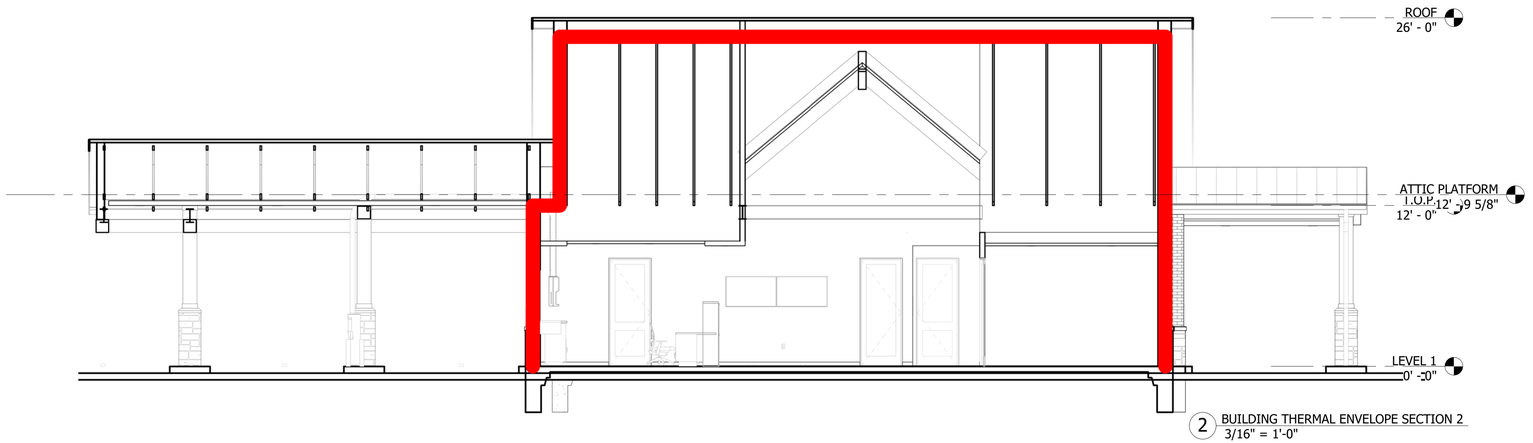
REGISTERED ARCHITECT THOMAS B. PAINTER 14288 STATE OF TEXAS
09/11/26

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GENERAL NOTES

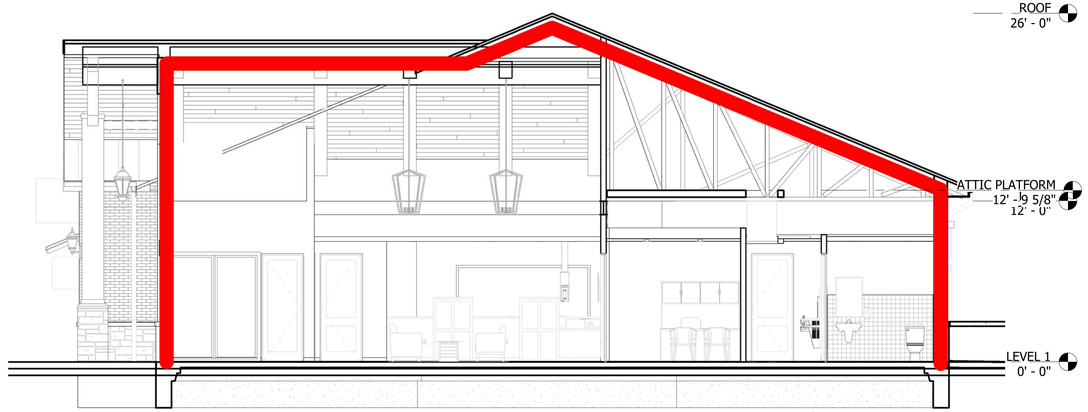
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SHEET NO. T-1.10

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2 BUILDING THERMAL ENVELOPE SECTION 2
3/16" = 1'-0"



1 BUILDING THERMAL ENVELOPE SECTION 1
3/16" = 1'-0"

BUILDING ENVELOPE REQUIREMENTS
2018 IECC Commercial Provisions
Chapter 4 Section 402

THERMAL ENVELOPE VALUES PER CLIMATE ZONE		
CLIMATE ZONE	2	
	ALL OTHER	GROUP R
ROOFS		
INSULATION ENTIRELY ABOV...	R-25ci	R-25ci
METAL BUILDINGS	R-19+ R11 LS	R-19+ R11 LS
ATTIC AND OTHER	R-38	R-38
WALLS, ABOVE GRADE		
MASS	R-5.7ci	R-7.6ci
METAL BUILDING	R13 + R-6.5ci	R13 + R-13ci
METAL FRAMED	R13 + R-5ci	R13 + R-7.5ci
WOOD FRAMED AND OTHER	R13 + R-3.8ci or R-20	R13 + R-3.8ci or R-20
WALLS, BELOW GRADE		
BELOW-GRADE WALL	NR	NR
FLOORS		
MASS	R-6.3ci	R-8.3ci
JOIST/FRAMING	R-30	R-30
SLAB-ON-GRADE FLOORS		
UNHEATED SLABS	NR	NR
HEATED SLABS	R-7.5ci for 12" below	R-7.5ci for 12" below

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ARCHITECTURE | DESIGN | CONSTRUCTION
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National Bank & Trust
National Bank & Trust - Bastrop
264 FM 969 BLDG. 3
BASTROP, TX 78602
Project Number : 8989

ISSUED FOR	DATE
ISSUED FOR CLIENT APPROVAL	08.17.2026
ISSUED FOR BIDDING	09.11.2026
ISSUED FOR PERMIT	09.11.2026
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.

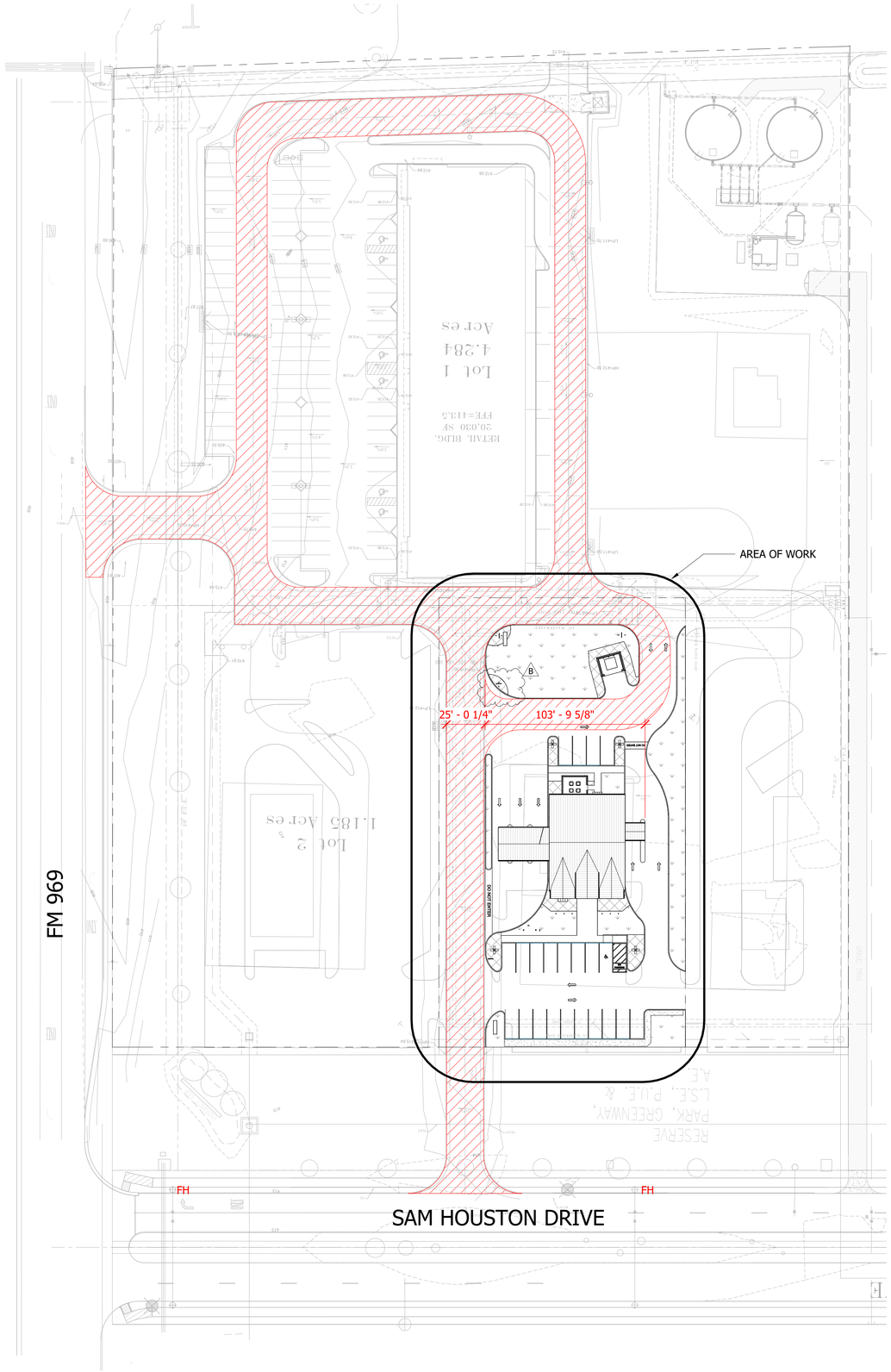
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REGISTERED ARCHITECT
THOMAS B. TAYLOR
14288
STATE OF TEXAS
09/11/26

DRAWING TITLE
BUILDING ENVELOPE ANALYSIS

DRAWN BY	RG	SHEET NO.
CHECKED BY	CA	T-1.20
APPROVED BY	TB	

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GENERAL NOTES

CURBS LOCATED ON EITHER SIDE OF A FIRE LANE SHALL BE PAINTED RED OR A RED STRIPE SHALL BE PLACED ALONG THE PAVEMENT WHERE THERE IS NO CURB. WHERE A FIRE LANE PASSES BETWEEN HEAD IN PARKING SPACES, THE RED STRIPE SHOULD BE PLACED ALONG THE REAR OF THESE SPACES CLEARLY DEFINING THE FIRE LANE. PAINTED CURBS AND FIRE LANE STRIPES SHALL ALSO BE CONSPICUOUSLY AND LEGIBLY MARKED WITH THE WARNING "FIRE LANE – NO PARKING TOW WAY ZONE" IN WHITE LETTERS AT LEAST THREE (3) INCHES IN HEIGHT, AT INTERVALS NOT EXCEEDING (50) FEET. WHERE FIRE LANES ARE CLEARLY DEFINED BY CURB/PAVEMENT STRIPING, FIRE LANE SIGNS ARE NOT REQUIRED. FIRE LANE SIGNS SHOULD BE PLACED EVERY (75) FEET ALONG ANY FIRE LANE WHERE PAVEMENT OR CURB STRIPING IS NOT PRACTICAL. ANY COLOR OTHER THAN RED MAY BE USED IN "NO PARKING" AREAS THAT ARE NOT APPROVED FIRE LANES. RED COLORED CURBS, PAVEMENT STRIPING OR WHEEL STOPS SHALL BE USED ONLY TO DESIGNATE APPROVED FIRE LANES

LEGEND

FH	FIRE HYDRANT
	FIRE LANE

TRUE NORTH PLAN NORTH

1 OVERALL DEVELOPMENT FIRE APPARATUS SITE ACCESS PLAN
1" = 40'-0"

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NBT National Bank & Trust

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BASTROP, TX 78602

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REVISIONS

MARK	DESCRIPTION	DATE
B	ADDENDUM B	09.25.26

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REGISTERED ARCHITECT THOMAS B. BAKER 14288 STATE OF TEXAS
09/25/26

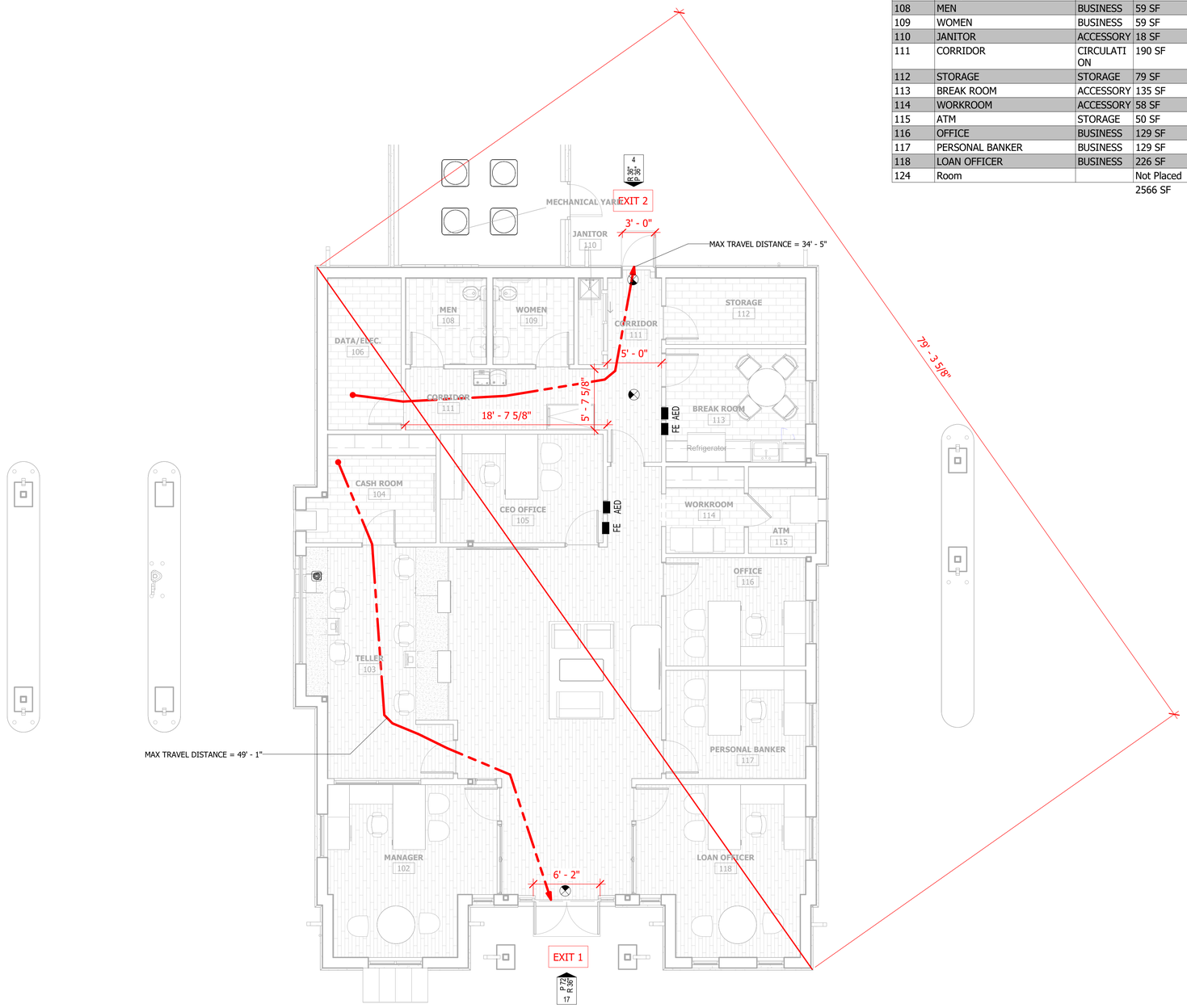
DRAWING TITLE
FIRE APPARATUS SITE ACCESS PLAN

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OCCUPANT LOAD FOR					
Number	Name	Occupancy	Area	Occupant Factor	Occupancy Load
100	LOBBY	BUSINESS	587 SF	150	4
102	MANAGER	BUSINESS	226 SF	150	2
103	TELLER	BUSINESS	266 SF	150	2
104	CASH ROOM	BUSINESS	108 SF	150	1
105	CEO OFFICE	BUSINESS	150 SF	150	2
106	DATA/ELEC.	ACCESSORY	95 SF	300	1
108	MEN	BUSINESS	59 SF	0	
109	WOMEN	BUSINESS	59 SF	0	
110	JANITOR	ACCESSORY	18 SF	300	1
111	CORRIDOR	CIRCULATION	190 SF	0	
112	STORAGE	STORAGE	79 SF	300	1
113	BREAK ROOM	ACCESSORY	135 SF	150	1
114	WORKROOM	ACCESSORY	58 SF	300	1
115	ATM	STORAGE	50 SF	300	1
116	OFFICE	BUSINESS	129 SF	150	1
117	PERSONAL BANKER	BUSINESS	129 SF	150	1
118	LOAN OFFICER	BUSINESS	226 SF	150	2
124	Room		Not Placed		
			2566 SF		21



1 LIFE SAFETY
3/16" = 1'-0"

LIFE SAFETY:

NOTE:
FIRE EXTINGUISHER: FE
FIRE EXTINGUISHER SPEC: MP10 CLASS A, 10LBS
FIRE EXTINGUISHER CABINET SPEC:
LARSEN 2409-4-FG-AL-LTG
AED SPEC: PHILIPS AA-M5066A-WC280-100-SL-A
AED CABINET SPEC: LARSEN S1414-RD

EMERGENCY LIGHTING: REF. SHEET E-2.1 &E-2.2
EXIT SIGNS: REF. SHEET E-2.1 &E-2.2
SMOKE DETECTORS: REF. SHEET _MEP__
PANIC HARDWARE: REF. SHEET A-2.00

GENERAL NOTES

1. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS AND QUANTITY OF SMOKE DETECTORS AND ILLUMINATED EXIT SIGNS.
2. REFER TO A-3.00 FOR COMPOSITION OF RATED PARTITIONS.
3. REFER TO A-2.00 FOR DOOR SCHEDULE IDENTIFING FIRE RATING RATINGS
4. IF AN OPENING OCCURS IN A RATED WALL, REFER TO THE SPECIFICATIONS FOR REQUIREMENTS.
5. IF REQUIRED, FIRE ALARM SYSTEM WILL REQUIRE SEPARATE PERMIT AND SUBMITTAL. ISSUANCE OF A BUILDING PERMIT DOES NOT IMPLY APPROVAL TO INSTALL THE FIRE ALARM SYSTEM. SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA STANDARD 14 AND THE COUNTY FIRE MARSHALL.
6. ALL EXITS SHALL COMPLY WITH ACCESSIBLE STANDARDS AND DISCHARGE TO A PAVED PUBLIC WAY, OR A PAVED SIDEWALK WHICH LEADS TO A PUBLIC WAY.
7. BUILDING WILL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY FIRE CODE AND REFERENCED DOCUMENTS.

APPLICABLE CODES

2015 IBC WITH CITY OF HOUSTON AMENDMENTS
2020 NEC WITH CITY OF HOUSTON AMENDMENTS
2015 UPC WITH CITY OF HOUSTON AMENDMENTS
2015 IFC WITH CITY OF HOUSTON AMENDMENTS
2015 IECC WITH CITY OF HOUSTONAMENDMENTS
2015 UMC WITH CITY OF HOUSTON AMENDMENTS
2012 TAS TEXAS ACCESSIBILITY STANDARDS (ADOPTED MARCH 2012)

LEGEND

- NEW PARTITION NON-RATED
  RE: A-3.00 FOR PARTITION TYPES
- LONGEST EXIT ROUTE PER LEVEL
- EXIT ROUTE
- EXIT POINT WITH WIDTH INDICATED IN INCHES
  OCCUPANT LOAD SHOWN VERTICAL
  P=PROVIDED EXIT WIDTH OF EGRESS COMPONENT
  R=REQUIRED EXIT WIDTH OF EGRESS COMPONENT
- FE — FIRE EXTINGUISHER CABINET & FIRE EXTINGUISHER
- AED — AUTOMATED EXTERNAL DEFIBRILLATOR CABINET & AUTOMATED EXTERNAL DEFIBRILLATOR

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BASTROP, TX 78602

Project Number : 8989

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REVISIONS

MARK	DESCRIPTION	DATE
A	ADDENDUM A	09.18.26

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REGISTERED ARCHITECT
THOMAS B. BAKER
14288
STATE OF TEXAS
09/18/26

DRAWING TITLE
LIFE SAFETY PLAN

DRAWN BY	RG
CHECKED BY	CA
APPROVED BY	TB

SHEET NO.
T-1.40

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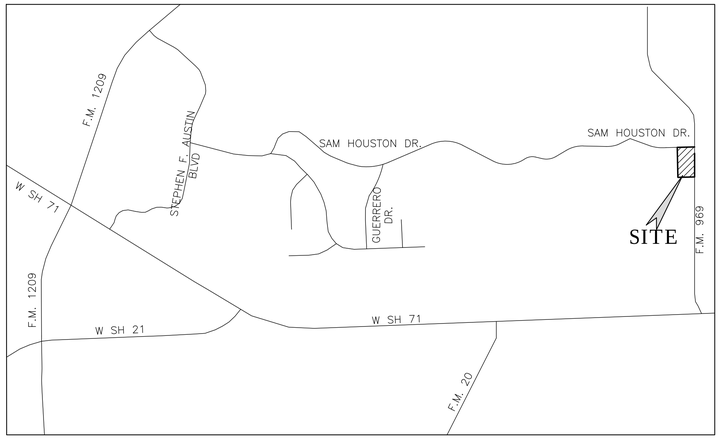
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SITE DEVELOPMENT PLAN
FOR
NATIONAL BANK & TRUST
@ THE COLONY COMMERCIAL

264 FM 969 BLDG 3

BASTROP, TEXAS 78602

Sheet Number	Sheet Title
C-1	COVER SHEET
C-2	GENERAL & CONSTRUCTION NOTES
C-3	FINAL PLAT (1 OF 2)
C-4	FINAL PLAT (2 OF 2)
C-5	EROSION CONTROL PLAN
C-6	EROSION CONTROL NOTES & DETAILS
C-7	SITE PLAN
C-8	UTILITIES PLAN
C-9	STORM SEWER PLAN
C-10	GRADING PLAN
C-11	DRAINAGE PLAN
C-12	PAVEMENT PLAN
C-13	CONSTRUCTION DETAILS (1 OF 2)
C-14	CONSTRUCTION DETAILS (2 OF 2)
C-15	WATER DETAILS
C-16	WASTEWATER DETAILS



LOCATION MAP
NOT TO SCALE

PROJECT DESCRIPTION:

THIS PROJECT IS TO ADD A 2,947 SF COMMERCIAL BUILDING WITH ITS ASSOCIATED PARKING AND DRIVE AISLES ON 1.072 ACRES.

PROPOSED TOTAL IMPERVIOUS COVER

Pavement area =	29,306	sq. ft. =	0.6728 Acres
Building Area =	2,947	sq. ft. =	0.0677 Acres
Other Areas (sidewalks, etc.) =	1,601	sq. ft. =	0.0368 Acres
Total Proposed Impervious Cover (IC) =	33,854	sq. ft. =	0.777 Acres
Total Proposed Impervious Cover, % =			72.5%

LEGAL DESCRIPTION:

LOT 3 BLOCK A AMENDED PLAT
THE COLONY COMMERCIAL
FINAL PLAT DOCUMENT #

NOTES:
1. THIS PROJECT IS LOCATED IN THE BIG SANDY CREEK – COLORADO RIVER WATERSHED AND IS CLASSIFIED AS CLASS A.
2. NO PORTION OF THIS TRACT IS WITHIN THE BOUNDARIES OF THE F.E.M.A. ZONE AE 100 YEAR FLOODPLAIN AS SHOWN ON THE F.E.M.A. FIRM PANEL 48021C0355F FOR BASTROP COUNTY, TEXAS, EFFECTIVE DATE MAY 9, 2023.

OWNER: RICKEY GATES
S.L.I. DESIGN, INC.
15810 PARK TEN PLACE SUITE 300
HOUSTON, TEXAS 77084

ENGINEER/SURVEYOR: CARLSON, BRIGANCE & DOERING, INC.
CIVIL ENGINEERING & SURVEYING
C/O JOANN A. EAGLE, P.E.
5701 WEST WILLIAM CANNON
AUSTIN , TEXAS 78749
(512) 280–5160

GEOTECHNICAL ENGINEER:

THOMPSON ENGINEERING, INC.
10665 RICHMOND AVENUE STE.192
HOUSTON, TEXAS 77042
PH. (713) 972–6850

NOTE: ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF BASTROP MUST RELY UPON THE ADEQUACY OF THE DESIGN ENGINEER.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE ASSOCIATED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NO.	REVISION / CORRECTIONS DESCRIPTION	REVISE (R) ADD (A) VOID (V) SHEET NO'S	TOTAL # SHEETS IN PLAN SET	NET CHANGE IMP. COVER (SQ. FT)	TOTAL SITE IMP. COVER (SQ. FT.)/(%)	BASTROP APPROVAL/DATE	BASTROP APPROVED BY	DATE IMAGED	TRAVIS COUNTY APPROVED DATE	TNR APPROV ED BY

NOTED: ALL REVISIONS AND CORRECTIONS SHOULD BE REVIEWED AND APPROVED BY BASTROP COUNTY

THE SEALING ENGINEER WHO PREPARED THESE PLANS IS RESPONSIBLE FOR THEIR ADEQUACY AND COMPLIANCE WITH ALL APPLICABLE CODES AND STANDARDS. IN ACCEPTING THESE PLANS, BASTROP COUNTY RELIES UPON THE ADEQUACY OF THE WORK OF THE SEALING ENGINEER.

SUBMITTED BY:

Joann A Eagle — 09/10/2026
CARLSON, BRIGANCE, & DOERING, INC. — DATE

APPROVED BY:

BASTROP COUNTY ESD # 1 — DATE

THE COLONY M.U.D. 1A ENGINEER — DATE

2026–1803
BASTROP COUNTY NUMBER

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GAS:	CENTER POINT ENERGY (830) 643–6936
PHONE:	AT&T (512) 870–1450
WATER:	COLONY 1A M.U.D. (512) 989–2200
WASTEWATER:	COLONY 1A M.U.D. (512) 989–2200
CABLE:	TIME WARNER CABLE (800) 418–8848
UTILITY OPERATOR:	CROSSROADS UTILITIES (512) 246–1400

BASTROP FIRE DEPARTMENT	
FIRE DESIGN CODES	IFC 2018 W/ COA LOCAL AMENDMENTS
FIRE FLOW DEMAND @ 20 PSI	1,500 GPM
INTENDED USE	COMMERCIAL
CONSTRUCTION CLASSIFICATION	V-A
BUILDING FIRE AREA (SF)	2,947 sf
AUTOMATIC FIRE SPRINKLERS	NO
REDUCED FIRE FLOW DEMAND	NO
AFD FIRE HYDRANT FLOW TEST DATE	
AFD FIRE HYDRANT FLOW TEST LOCATION	

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BASTROP, TX 78602
Project Number : 5816

Carlson, Brigance & Doering, Inc.
Civil Engineering ◆ Surveying
3501 West William Cannon ◆ Austin, Texas 78749
Phone No. (512) 280-5160 ◆ Fax No. (512) 280-5165

REVISIONS

MARK	DESCRIPTION	DATE

PRINT DATE: September 2026

STATE OF TEXAS — JOANN A. EAGLE — 97597 — LICENSED PROFESSIONAL ENGINEER
CARLSON, BRIGANCE & DOERING, INC.
09/10/2026 IDJ F3791

DRAWING TITLE
COVER SHEET

DRAWN BY CP
CHECKED BY JAE
APPROVED BY JAE
SHEET NO. C-1

FILE PATH:J:\ACCDS\816\Dwg\SHEET SET\816-COVER.dwg - Sep 10, 2026 - 2:14pm

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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER DISTRIBUTION SYSTEM
GENERAL CONSTRUCTION NOTES:

1. This water distribution system must be constructed in accordance with the current Texas Commission on Environmental Quality (TCEQ) Rules and Regulations for Public Water Systems 30 Texas Administrative Code (TAC) Chapter 290 Subchapter D. When conflicts are noted with local standards, the more stringent requirement shall be applied. Construction for public water systems must always, at a minimum, meet TCEQ's "Rules and Regulations for Public Water Systems.
2. An appointed engineer shall notify in writing the local TCEQ's Regional Office when construction will start. Please keep in mind that upon completion of the water works project, the engineer or owner shall notify the commission's Water Supply Division, in writing, as to its completion and attest to the fact that the work has been completed essentially according to the plans and change orders on file with the commission as required in 30 TAC §290.39(h)(3).
3. All newly installed pipes and related products must conform to American National Standards Institute/National Sanitation Foundation (ANSI/NSF) Standard 61-G and must be certified by an organization accredited by ANSI, as required by 30 TAC §290.44(a)(1).
4. Plastic pipe for use in public water systems must bear the National Sanitation Foundation Seal of Approval (NSF pw-G) and have an ASTM design pressure rating of at least 150 psi or a standard dimension ratio of 26 or less, as required by 30 TAC §290.44(a)(2).
5. No pipe which has been used for any purpose other than the conveyance of drinking water shall be accepted or relocated for use in any public drinking water supply, as required by 30 TAC §290.44(a)(3).
6. Water transmission and distribution lines shall be installed in accordance with the manufacturer's instructions. However, the top of the water line must be located below the frost line and in no case shall the top of the water line be less than 24 inches below ground surface, as required by 30 TAC §290.44(a)(4).
7. Pursuant to 30 TAC §290.44(a)(5), the hydrostatic leakage rate shall not exceed the amount allowed or recommended by the most current AWWA formulas for PVC pipe, cast iron and ductile iron pipe. Include the formulas in the notes on the plans.

   – The hydrostatic leakage rate for polyvinyl chloride (PVC) pipe and appurtenances shall not exceed the amount allowed or recommended by formulas in America Water Works Association (AWWA) C-605 as required in 30 TAC §290.44(a)(5). Please ensure that the formula for this calculation is correct and most current formula is in use;

$$Q = \frac{LD\sqrt{P}}{148{,}000}$$

   Where:

   Q = the quantity of makeup water in gallons per hour,
   L = the length of the pipe section being tested, in feet,
   D = the nominal diameter of the pipe in inches, and
   P = the average test pressure during the hydrostatic test in pounds per square inch (psi).

   – The hydrostatic leakage rate for ductile iron (DI) pipe and appurtenances shall not exceed the amount allowed or recommended by formulas in America Water Works Association (AWWA) C-600 as required in 30 TAC §290.44(a)(5). Please ensure that the formula for this calculation is correct and most current formula is in use;

$$L = \frac{SD\sqrt{P}}{148{,}000}$$

   Where:

   L = the quantity of makeup water in gallons per hour,
   S = the length of the pipe section being tested, in feet,
   D = the nominal diameter of the pipe in inches, and
   P = the average test pressure during the hydrostatic test in pounds per square inch (psi).

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER DISTRIBUTION SYSTEM
GENERAL CONSTRUCTION NOTES:

8. Projects constructed on or after January 4, 2014 must comply with changes to the Safe Drinking Water Act that reduces the maximum allowable lead content of pipes, pipe fittings, and, plumbing fittings, and fixtures to 0.25 percent.
9. The system must be designed to maintain a minimum pressure of 35 psi at all points within the distribution network at flow rates of at least 1.5 gallons per minute per connection. When the system is intended to provide firefighting capability, it must also be designed to maintain a minimum pressure of 20 psi under combined fire and drinking water flow conditions as required by 30 TAC §290.44(d).
10. The contractor shall install appropriate air release devices in the distribution system at all points where topography or other factors may create air locks in the lines. All vent openings to the atmosphere shall be covered with 16-mesh or finer, corrosion resistant screening material or an acceptable equivalent as required by 30 TAC §290.44(d)(1).
11. Pursuant to 30 TAC §290.44(d)(4), accurate water meters shall be provided. Service connections and meter locations should be shown on the plans.
12. Pursuant to 30 TAC §290.44(d)(5), sufficient valves and blowoffs to make repairs. The engineering report shall establish criteria for this design.
13. Pursuant to 30 TAC §290.44(d)(6), the system shall be designed to afford effective circulation of water with a minimum of dead ends. All dead-end mains shall be provided with acceptable flush valves and discharge piping. All dead-end lines less than two inches in diameter will not require flush valves if they end at a customer service. Where dead ends are necessary as a stage in the growth of the system, they shall be located and arranged to ultimately connect the ends to provide circulation.
14. The contractor shall maintain a minimum separation distance in all directions of nine feet between the proposed waterline and wastewater collection facilities including manholes and septic tank drainfields. If this distance cannot be maintained, the contractor must immediately notify the project engineer for further direction. Separation distances, installation methods, and materials utilized must meet 30 TAC §290.44(e)(1-4) of the current rules.
15. Pursuant to 30 TAC §290.44(e)(5), the separation distance from a potable waterline to a wastewater main or lateral manhole or cleanout shall be a minimum of nine feet. Where the nine-foot separation distance cannot be achieved, the potable waterline shall be encased in a joint of at least 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 five-foot intervals with spacers or be filled to the springline with washed sand. The encasement pipe shall be centered on the crossing and both ends sealed with cement grout or manufactured sealant.
16. Pursuant to 30 TAC §290.44(e)(6), fire hydrants shall not be installed within nine feet vertically or horizontally of any wastewater line, wastewater lateral, or wastewater service line regardless of construction.
17. Pursuant to 30 TAC §290.44(e)(7), suction mains to pumping equipment shall not cross wastewater mains, wastewater laterals, or wastewater service lines. Raw water supply lines shall not be installed within five feet of any tile or concrete wastewater main, wastewater lateral, or wastewater service line.
18. Pursuant to 30 TAC §290.44(e)(8), waterlines shall not be installed closer than ten feet to septic tank drainfields.
19. Pursuant to 30 TAC §290.44(f)(1), the contractor shall not place the pipe in water or where it can be flooded with water or sewage during its storage or installation.
20. Pursuant to 30 TAC §290.44(f)(2), when waterlines are laid under any flowing or intermittent stream or semi-permanent body of water the water main shall be installed in a separate watertight pipe encasement. Valves must be provided on each side of the crossing with facilities to allow the underwater portion of the system to be isolated and tested.
21. The contractor shall disinfect the new water mains in accordance with AWWA Standard C-651 and then flush and sample the lines before being placed into service. Samples shall be collected for microbiological analysis to check the effectiveness of the disinfection procedure which shall be repeated if contamination persists. A minimum of one sample for each 1,000 feet of completed water line will be required or at the next available sampling point beyond 1,000 feet as designated by the design engineer, in accordance with 30 TAC §290.44(f)(3).
    Revised: January 10, 2014

WATER & WASTEWATER NOTES:

1. PIPE MATERIAL FOR WATER MAINS SHALL BE PVC (AWWA C-900, DR 14), OR DUCTILE IRON (AWWA C-115/151, MINIMUM CLASS 350). WATER SERVICES (2 INCHES OR LESS) SHALL BE POLYETHYLENE TUBING (BLACK, 200 PSI, DR 9).
2. PIPE MATERIAL FOR PRESSURE WASTEWATER MAINS SHALL BE PVC DR 21 OR DUCTILE IRON (MINIMUM CLASS 350). PIPE MATERIAL FOR GRAVITY WASTEWATER MAINS SHALL BE PVC (ASTM D3034, SDR-26).
3. UNLESS OTHERWISE ACCEPTED BY THE ENGINEER, DEPTH OF COVER FOR ALL LINES OUT OF THE PAVEMENT SHALL BE 42 INCHES MINIMUM, AND DEPTH OF COVER FOR ALL LINES UNDER PAVEMENT SHALL BE A MINIMUM OF 30 INCHES BELOW SUBGRADE.
4. ALL FIRE HYDRANT LEADS SHALL BE DUCTILE IRON PIPE (AWWA C-115/151, MINIMUM CLASS 350).
5. ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH MINIMUM 8-MIL POLYETHYLENE AND SEALED WITH DUCT TAPE OR EQUAL.
6. THE CONTRACTOR SHALL NOTIFY CROSSROADS, TELEPHONE AT 512-246-1400 TO COORDINATE UTILITY TIE-INS AND NOTIFY AT LEAST 48 HOURS PRIOR TO CONNECTING TO EXISTING LINES.
7. THE CONTRACTOR MUST OBTAIN A FIRE HYDRANT METER FROM CROSSROADS FOR ALL WATER USED DURING CONSTRUCTION OR, CONNECT TO WELL AT PLANT, MUST COORDINATE WITH CROSSROADS.
8. THE CONTRACTOR MUST OBTAIN A BULK WATER PERMIT OR PURCHASE AND INSTALL A WATER METER FOR ALL WATER USED DURING CONSTRUCTION. A COPY OF THIS PERMIT MUST BE CARRIED AT ALL TIMES BY ALL WHO USE WATER.
9. LINE FLUSHING OR ANY ACTIVITY USING A LARGE QUANTITY OF WATER MUST BE SCHEDULED WITH CROSSROADS, TELEPHONE AT 512-246-1400.
10. THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM STERILIZATION OF ALL POTABLE WATER LINES CONSTRUCTED AND SHALL PROVIDE ALL EQUIPMENT (INCLUDING TEST GAUGES), SUPPLIES (INCLUDING CONCENTRATED CHLORINE DISINFECTING MATERIAL), AND NECESSARY LABOR REQUIRED FOR THE STERILIZATION PROCEDURE. THE STERILIZATION PROCEDURE SHALL BE MONITORED BY CITY OF BASTROP PERSONNEL. WATER SAMPLES WILL BE COLLECTED BY THE CITY OF BASTROP TO VERIFY EACH TREATED LINE HAS ATTAINED AN INITIAL CHLORINE CONCENTRATION OF 50 PPM. WHERE MEANS OF FLUSHING IS NECESSARY, THE CONTRACTOR, AT HIS EXPENSE, SHALL PROVIDE FLUSHING DEVICES AND REMOVE SAID DEVICES PRIOR TO FINAL ACCEPTANCE.
11. SAMPLING TAPS SHALL BE BROUGHT UP TO 3 FEET ABOVE GRADE AND SHALL BE EASILY ACCESSIBLE FOR M.U.D. PERSONNEL. AT THE CONTRACTOR'S REQUEST, AND IN HIS PRESENCE, SAMPLES FOR BACTERIOLOGICAL TESTING WILL BE COLLECTED NOT LESS THAN 24 HOURS AFTER THE TREATED LINE HAS BEEN FLUSHED OF THE CONCENTRATED CHLORINE SOLUTION AND CHARGED WITH WATER APPROVED BY THE M.U.D.
12. THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM QUALITY TESTING FOR ALL WASTEWATER PIPE INSTALLED AND PRESSURE PIPE HYDROSTATIC TESTING OF ALL WATER LINES CONSTRUCTED AND SHALL PROVIDE ALL EQUIPMENT (INCLUDING PUMPS AND GAUGES), SUPPLIES AND LABOR NECESSARY TO PERFORM THE TESTS. QUALITY AND PRESSURE TESTING SHALL BE MONITORED BY CITY OF BASTROP PERSONNEL AND DISTRICT PERSONNEL.
13. THE CONTRACTOR SHALL COORDINATE TESTING WITH THE CITY INSPECTOR AND CROSSROADS AND PROVIDE NO LESS THAN 24 HOURS NOTICE PRIOR TO PERFORMING STERILIZATION, QUALITY TESTING OR PRESSURE TESTING.
14. THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY VALVES UNLESS AUTHORIZED BY THE CROSSROADS.
15. ALL VALVE BOXES AND COVERS SHALL BE CAST IRON.
16. CONTACT CROSSROADS UTILITY, TELEPHONE AT 512-246-1400 FOR ASSISTANCE IN OBTAINING EXISTING WATER AND WASTEWATER LOCATIONS.
17. SAND, AS DESCRIBED IN SPECIFICATION ITEM 510 PIPE, SHALL NOT BE USED AS BEDDING FOR WASTEWATER LINES. ACCEPTABLE BEDDING MATERIALS ARE PIPE BEDDING STONE, PEA GRAVEL AND IN LIEU OF SAND, A NATURALLY OCCURRING OR MANUFACTURED STONE MATERIAL CONFORMING TO ASTM C33 FOR STONE QUALITY AND MEETING THE FOLLOWING GRADATION SPECIFICATION:

Sieve Size	Percent Retained By Weight
1/2"	0
3/8"	0-2
#4	40-85
#10	95-100

18. THE CONTRACTOR IS HEREBY NOTIFIED THAT CONNECTING TO, SHUTTING DOWN, OR TERMINATING EXISTING UTILITY LINES MAY HAVE TO OCCUR AT OFF-PEAK HOURS. SUCH HOURS ARE USUALLY OUTSIDE NORMAL WORKING HOURS AND POSSIBLY BETWEEN 12 A.M. AND 6 A.M.
19. ALL WASTEWATER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) REGULATIONS, 30 TAC CHAPTER 213 AND 317, AS APPLICABLE. WHENEVER TCEQ AND CITY OF BASTROP SPECIFICATIONS CONFLICT, THE MORE STRINGENT SHALL APPLY.

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF BASTROP DESIGN AND CONSTRUCTION STANDARDS MANUAL.
2. ANY EXISTING UTILITIES, PAVEMENT, CURBS, SIDEWALKS, STRUCTURES, TREES, ETC., NOT PLANNED FOR DEMOLITION THAT ARE DAMAGED OR REMOVED SHALL BE REPAIRED OR REPLACED AT THE APPLICANT'S EXPENSE.
3. THE CONTRACTOR SHALL VERIFY ALL DEPTHS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES WITH THE CONSTRUCTION PLANS FOUND IN THE FIELD SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER WHO SHALL BE RESPONSIBLE FOR REVISING THE PLANS ARE APPROPRIATE.
4. MANHOLE FRAMES, COVERS, VALVES, CLEANOUTS, ETC. SHALL BE RAISED TO FINISHED GRADE AFTER TO FINAL PAVING CONSTRUCTION. A CONCRETE SQUARE SHALL BE POURED AROUND ALL APPURTENANCES.
5. ALL AREAS DISTURBED OR EXPOSED DURING CONSTRUCTION SHALL BE RE-VEGETATED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. RE-VEGETATION IS TO TAKE PLACE WITHIN 14 DAYS OF CONSTRUCTION INACTIVITY. RE-VEGETATION OF ALL DISTURBED OR EXPOSED AREAS SHALL CONSIST OF SODDING OR SEEDING, AT THE CONTRACTOR'S OPTION. HOWEVER, THE TYPE OF RE-VEGETATION MUST EQUAL OR EXCEED THE TYPE OF VEGETATION PRESENT BEFORE CONSTRUCTION
6. PRIOR TO ANY CONSTRUCTION, THE APPLICANT'S ENGINEER SHALL CONVENE A PRECONSTRUCTION CONFERENCE BETWEEN HIMSELF, THE CITY OF BASTROP, THE CONTRACTOR, UTILITY COMPANIES, ANY AFFECTED PARTIES AND ANY OTHER ENTITY THE CITY OR THE ENGINEER MAY REQUIRE. REFERENCE DEVELOPMENT PACKET FOR GUIDANCE ON HOW TO SCHEDULE A PRECONSTRUCTION CONFERENCE.
7. THE CONTRACTOR AND THE ENGINEER SHALL KEEP ACCURATE RECORDS OF ALL CONSTRUCTION THAT DEVIATES FROM THE PLANS. THE ENGINEER SHALL FURNISH THE CITY OF BASTROP ACCURATE "AS-BUILT" DRAWINGS FOLLOWING COMPLETION OF ALL CONSTRUCTION.
8. WHEN CONSTRUCTION IS BEING CARRIED OUT WITHIN EASEMENTS, THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE PERMANENT AND ANY TEMPORARY EASEMENTS. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TRASH AND DEBRIS WITHIN THE PERMANENT AND TEMPORARY EASEMENTS.
9. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL APPLY FOR AND SECURE ALL PROPER PERMITS FROM THE APPROPRIATE AUTHORITIES.
10. ALL STORM SEWER FITTINGS MUST BE PRE-CAST.
11. AVAILABLE BENCHMARKS THAT MAY BE UTILIZED FOR THE CONSTRUCTION OF THIS PROJECT ARE DESCRIBED AS FOLLOWS:

BENCHMARKS:

BM #1: CAPPED IRON ROD MARKED "CBD SETSTONE" LOCATED +/- N61°10"W 408.6' FROM THE NORTHERNMOST CORNER OF THE COLONY MUD 1A SECTION 1 ELEVATION: 424.31

BM #2: CAPPED IRON ROD MARKED "CBD SETSTONE" LOCATED +/- N86°01"W 452.8' FROM THE WESTERNMOST CORNER OF THE COLONY MUD 1A SECTION 1 ELEVATION: 430.56

CONSTRUCTION SEQUENCE:

NO CLEARING OR ROUGH GRADING MAY BE DONE UNTIL THE APPROVED EROSION AND SEDIMENTATION CONTROLS ARE IN PLACE.

1. PRIOR TO THE START OF CONSTRUCTION FOR THE PROPOSED DRIVEWAY ON SAM HOUSTON DR YOU MUST NOTIFY THE DRIVEWAY INSPECTOR VIA EMAIL AT DRIVEWAY@CO.BASTROP.TX.US TO SCHEDULE THE REQUIRED DRIVEWAY INSPECTIONS.
2. HOLD PRE-CONSTRUCTION CONFERENCE.
3. INSTALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND STABILIZED CONSTRUCTION ENTRANCE AS SHOWN ON THE PLANS.
4. WITH THE APPROVAL OF ALL AFFECTED PARTIES, THE CONTRACTOR MAY BEGIN CLEARING AND GRUBBING.
5. INSTALL ALL UTILITIES.
6. COMPLETE ALL ROUGH GRADING AND UNDERGROUND INSTALLATION WITHIN THE LIMITS OF CONSTRUCTION. INSURE THAT ALL UNDERGROUND UTILITY CROSSINGS ARE COMPLETED.
7. COMPLETE FINAL GRADING WITHIN LIMITS OF CONSTRUCTION ALONG AREAS DESIGNATED, INCLUDING DITCHES AND PARKWAYS RESTORE CONSTRUCTION SPOILS & STAGING AREA TO NATURAL GRADE.
8. COMPLETE PERMANENT EROSION CONTROL AND RESTORATION OF SITE VEGETATION.
9. PROJECT ENGINEER OBSERVES CONSTRUCTION AND WRITES CONCURRENCE LETTER TO THE CITY OF BASTROP AND THE DISTRICT.
10. AFTER FINAL INSPECTION AND ACCEPTANCE OF CONSTRUCTION, COMPLETE ANY NECESSARY FINAL DRESS UP OF DISTURBED AREAS AND REMOVE/ DISPOSE OF TEMPORARY EROSION CONTROLS IN AN APPROVED MANNER.

SLI GROUP, INC.
ARCHITECTURE | DESIGN | CONSTRUCTION
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HOUSTON, TEXAS 77084
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National Bank & Trust - Bastrop
264 FM 969 BLDG. 3
BASTROP, TX 78602

Project Number : 5816

Carlson, Brigance & Doering, Inc.
Civil Engineering ◆ Surveying
3501 West Williams Cannon ◆ Austin, Texas 78749
Phone No. (512) 280-5160 ◆ Fax No. (512) 280-5165

REVISIONS

MARK	DESCRIPTION	DATE

PRINT DATE: September 2026

STATE OF TEXAS
JOANN A. EAGLE
97597
LICENSED
PROFESSIONAL ENGINEER
CARLSON, BRIGANCE & DOERING, INC.
09/10/2026 ID# F3791

DRAWING TITLE
GENERAL & CONSTRUCTION NOTES

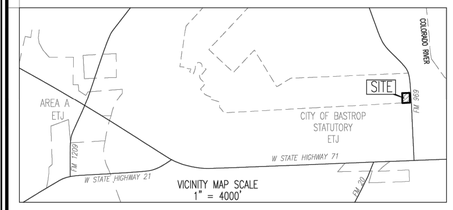
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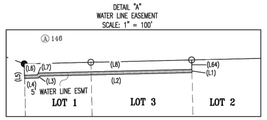
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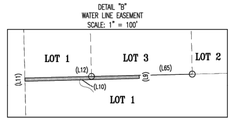
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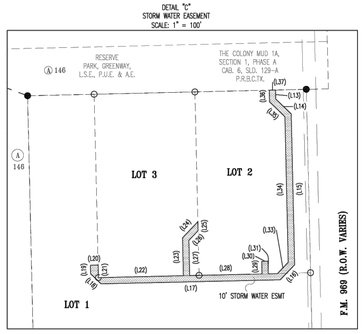
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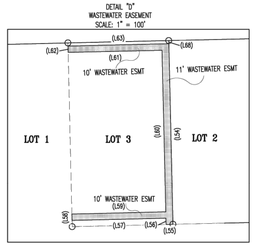
REPLAT OF
THE COLONY COMMERCIAL

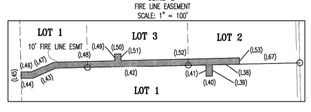


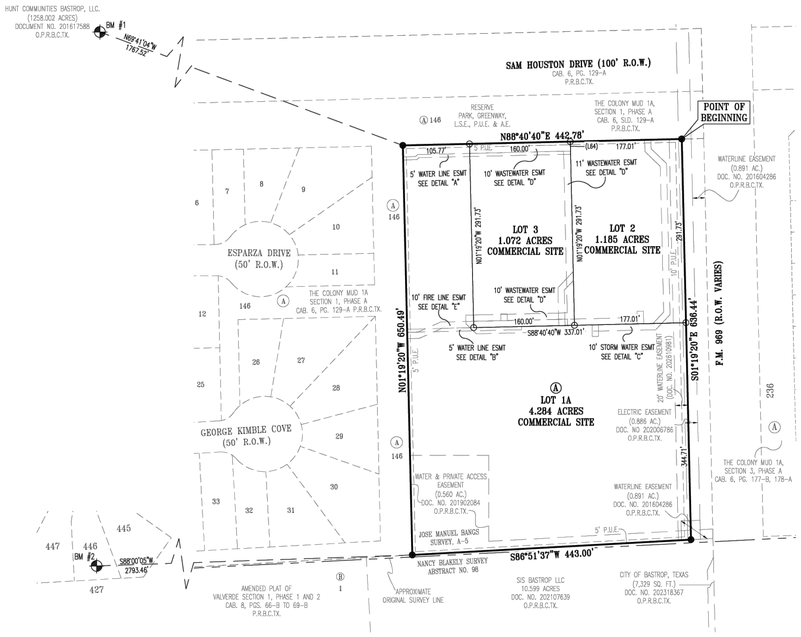


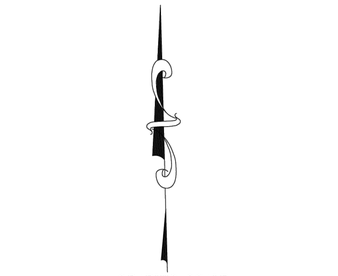












SCALE: 1" = 100'

LEGEND

- BENCHMARK
- 1/2" CAPPED IRON ROD FOUND STAMPED "CBD SETSTONE" (UNLESS OTHERWISE NOTED)
- CAPPED 1/2" CAPPED IRON ROD SET STAMPED "CBD SETSTONE"
- 1 LOT NUMBER
- (A) BLOCK LETTER
- P.U.E. PUBLIC UTILITY EASEMENT
- P.R.B.C.TX. PLAT RECORDS OF BASTROP COUNTY, TEXAS
- O.P.R.B.C.TX. OFFICIAL PUBLIC RECORDS OF BASTROP COUNTY, TEXAS
- WATER LINE EASEMENT
- STORM WATER EASEMENT
- FIRE LINE EASEMENT
- WASTEWATER EASEMENT

Easement Line Table		
Line #	Length	Direction
(L1)	5.00	N01°19'20"W
(L2)	240.97	N88°40'40"E
(L3)	4.24	N43°40'40"E
(L4)	21.80	N88°40'40"E
(L5)	5.00	S01°19'20"E
(L6)	19.73	S88°40'40"W
(L7)	4.24	S43°40'40"W
(L8)	243.04	S88°40'40"W
(L9)	5.00	N01°19'20"W
(L10)	181.52	N88°40'40"E
(L11)	5.00	S01°19'23"E
(L12)	181.52	S88°40'40"W
(L13)	14.37	S01°19'20"E
(L14)	33.83	S46°19'20"E
(L15)	240.12	S01°19'20"E
(L16)	32.98	S43°40'40"W
(L17)	284.61	S88°40'40"W
(L18)	23.16	N46°19'20"W
(L19)	13.62	N01°19'20"W
(L20)	12.30	N88°40'40"E

Easement Line Table		
Line #	Length	Direction
(L21)	20.00	S01°19'21"E
(L22)	135.00	N88°40'40"E
(L23)	60.12	N01°19'20"W
(L24)	35.36	N43°40'40"E
(L25)	14.14	S01°19'20"E
(L26)	21.21	S43°40'40"W
(L27)	55.97	S01°19'20"E
(L28)	114.80	N88°40'40"E
(L29)	20.00	N01°19'20"W
(L30)	10.00	N88°40'40"E
(L31)	20.00	S01°19'20"E
(L32)	14.74	N88°40'40"E
(L33)	24.70	N43°40'40"E
(L34)	231.83	N01°19'20"W
(L35)	33.83	N46°19'20"W
(L36)	18.51	N01°19'20"W
(L37)	10.00	N88°40'40"E
(L38)	43.48	N88°40'40"E
(L39)	18.33	N01°19'20"W
(L40)	10.00	N88°40'40"E

Easement Line Table		
Line #	Length	Direction
(L41)	18.33	S01°19'20"E
(L42)	238.65	N88°40'40"E
(L43)	39.20	N66°10'40"E
(L44)	18.89	N88°40'40"E
(L45)	10.00	S01°19'20"E
(L46)	16.90	S88°40'40"W
(L47)	39.20	S66°10'40"W
(L48)	96.05	S88°40'40"W
(L49)	10.67	S01°19'20"E
(L50)	10.00	S88°40'40"W
(L51)	10.67	N01°19'20"W
(L52)	188.07	S88°40'40"W
(L53)	10.00	N01°19'20"W
(L54)	286.73	N01°19'20"W
(L55)	11.00	N88°40'43"E
(L56)	10.00	S01°19'20"E
(L57)	149.00	N88°40'40"E
(L58)	10.00	S01°18'49"E
(L59)	149.00	S88°40'40"W
(L60)	256.73	S01°19'20"E

Easement Line Table		
Line #	Length	Direction
(L61)	149.00	N88°40'40"E
(L62)	10.00	S01°19'20"E
(L63)	160.00	S88°40'40"W
(L64)	15.00	N01°19'43"W
(L65)	84.24	N88°40'40"E
(L66)	48.92	S88°40'40"W
(L67)	95.54	N88°40'40"E
(L68)	5.00	S01°19'20"E

METES AND BOUNDS

A DESCRIPTION OF 6.541 ACRES IN THE JOSE MANUEL BANGS SURVEY, ABSTRACT NUMBER 5, BASTROP COUNTY, TEXAS, BEING ALL OF LOT 1, BLOCK A, THE COLONY COMMERCIAL, A SUBDIVISION RECORDED IN CABINET 10, PAGE 24-A, PLAT RECORDS, BASTROP COUNTY, TEXAS (P.R.B.C.TX.), AND ALL OF A 1.072 ACRE TRACT CONVEYED TO NATIONAL BANK & TRUST, BY DEED RECORDED IN DOCUMENT NUMBER 202607047 (O.P.R.B.C.TX.), SAID 6.541 ACRE TRACT OF LAND BEING MORE FULLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS:

BEGINNING, AT A CAPPED 1/2 INCH IRON ROD FOUND STAMPED "CBD SETSTONE" AT THE NORTHEAST CORNER OF SAID LOT 1, BLOCK A, BEING ON THE WEST RIGHT-OF-WAY LINE OF FM 969 (R.O.W. VARIES), SAME BEING ON THE SOUTH LINE OF LOT 146, BLOCK A, THE COLONY MUD 1A, SECTION 1, PHASE A, A SUBDIVISION RECORDED IN CABINET 6, SLIDE 129-A, (P.R.B.C.TX.), FOR THE NORTHEAST CORNER AND POINT OF BEGINNING OF THE HEREIN DESCRIBED TRACT,

THENCE, S01°19'20"E, WITH THE COMMON LINE OF SAID FM 969 AND SAID LOT 1, BLOCK A, A DISTANCE OF 636.44 FEET TO A 1/2 INCH IRON ROD FOUND AT THE SOUTHEAST CORNER OF SAID LOT 1, BLOCK A, BEING ON THE NORTH LINE OF A CALLED 10.599 ACRE TRACT CONVEYED TO SIS BASTROP, LLC BY DEED RECORDED IN DOCUMENT NUMBER 202107639, O.P.R.B.C.TX., FOR THE SOUTHEAST CORNER OF THE HEREIN DESCRIBED TRACT,

THENCE, S86°51'37"W, WITH THE COMMON LINE OF SAID 10.599 ACRE TRACT AND SAID LOT 1, BLOCK A, A DISTANCE OF 443.00 FEET TO A CAPPED 1/2 INCH IRON ROD FOUND STAMPED "CBD SETSTONE" AT THE SOUTHWEST CORNER OF SAID LOT 1, BLOCK A, BEING AT THE SOUTHEAST CORNER OF SAID LOT 146, BLOCK A, FOR THE SOUTHWEST CORNER OF THE HEREIN DESCRIBED TRACT,

THENCE, WITH THE COMMON LINE OF SAID LOT 146, BLOCK A, SAID LOT 1, BLOCK A, AND SAID 1.072 ACRE TRACT THE FOLLOWING TWO (2) COURSES AND DISTANCES, NUMBERED 1 AND 2:

1) N01°19'20"W, A DISTANCE OF 650.49 FEET TO A CAPPED 1/2 INCH IRON ROD FOUND STAMPED "CBD SETSTONE" AT THE NORTHWEST CORNER OF SAID LOT 1, BLOCK A, FOR THE NORTHWEST CORNER OF THE HEREIN DESCRIBED TRACT OF LAND, AND
2) N88°40'40"E, A DISTANCE OF 442.78 FEET TO THE POINT OF BEGINNING AND CONTAINING 6.541 ACRES OF LAND.

DATE: AUGUST 5, 2026

OWNER:
MARKET AT THE COLONY, LLC
3773 RICHMOND AVE. STE. 800
HOUSTON, TX 77046

AND

OWNER:
NATIONAL BANK & TRUST
3773 RICHMOND AVE. STE. 800
HOUSTON, TX 77046

ENGINEER & SURVEYOR:
CARLSON, BRIGANCE & DOERING, INC.
5501 WEST WILLIAM CANNON
AUSTIN, TX 78749
(512) 280-5160

TOTAL ACREAGE: 6.541 ACRES
SURVEY: JOSE MANUEL BANGS SURVEY, ABSTRACT NUMBER 5

NO. OF COMMERCIAL LOTS:	3	6.541 ACRES
NO. OF BLOCKS:	1	

F.E.M.A. MAP NO. 48021C0355F
BASTROP COUNTY, TEXAS AND INCORPORATED AREAS
DATED: MAY 9, 2023

BASIS OF BEARINGS - TEXAS COORDINATE SYSTEM, CENTRAL ZONE (4203), NAD83

ELEVATION DATUM - NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

SHEET NO. 1 OF 2

Carlson, Brigance & Doering, Inc.
FIRM ID #F3791 ◆ REG. # 10024900
Civil Engineering ◆ Surveying
5501 West William Cannon ◆ Austin, Texas 78749
Phone No. (512) 280-5160 ◆ Fax No. (512) 280-5165

J:\AC3D\5677\Survey\AMENDED PLAT - THE COLONY COMMERCIAL

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

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National Bank & Trust - Bastrop
264 FM 969 BLDG. 3
BASTROP, TX 78602

Project Number : 5816

Carlson, Brigance & Doering, Inc.
Civil Engineering ◆ Surveying
5501 West William Cannon ◆ Austin, Texas 78749
Phone No. (512) 280-5160 ◆ Fax No. (512) 280-5165

REVISIONS

MARK	DESCRIPTION	DATE

PRINT DATE: September 2026

STATE OF TEXAS
JOANN A. EAGLE
97597
LICENSED
PROFESSIONAL ENGINEER

CARLSON, BRIGANCE & DOERING, INC.
09/10/2026 ID# F3791

DRAWING TITLE
FINAL PLAT (1 OF 2)

DRAWN BY	CP
CHECKED BY	JAE
APPROVED BY	JAE

SHEET NO.
C-3

FILE PATH: J:\AC3D\5816\Dwg\SHEET SET\5816-PLAT.dwg - Sep 01, 2026 - 8:58am

SUB-ENGINEERING.CTB

REPLAT OF
THE COLONY COMMERCIAL

GENERAL NOTES:

1. THE BENCHMARKS USED ARE:
   BM #1: CAPPED 1/2 INCH IRON ROD SET STAMPED "CBD SETSTONE", LOCATED +/- N69°41'04"W 1,767.52' FROM THE NORTHWEST CORNER OF THE COLONY COMMERCIAL
   NORTHING=10021864.12 EASTING=3232770.44 ELEVATION: 424.31' (NAVD '88)
   BM #2: T-POST WITH PUNCH SET, LOCATED +/- S88°00'05"W 2,793.46' FROM THE SOUTHWEST CORNER OF THE COLONY COMMERCIAL
   NORTHING=10020502.71 EASTING=3231651.27 ELEVATION: 430.56' (NAVD '88)
2. WATER SERVICE IS PROVIDED BY THE COLONY M.U.D. 1A.
3. WASTEWATER SERVICE IS PROVIDED BY THE COLONY M.U.D. 1A.
4. ELECTRIC SERVICE WILL PROVIDED BY BLUEBONNET ELECTRIC.
5. ALL SUBDIVISION PERMITS SHALL CONFORM TO THE CITY OF BASTROP CODE OF ORDINANCES, PUBLIC IMPROVEMENT STANDARDS, AND GENERALLY ACCEPTED ENGINEERING PRACTICES.
6. CONSTRUCTION PLANS AND SPECIFICATIONS FOR ALL SUBDIVISION IMPROVEMENTS SHALL BE REVIEWED AND ACCEPTED BY THE CITY OF BASTROP PRIOR TO ANY CONSTRUCTION WITHIN THE SUBDIVISION.
7. THE OWNER OF THIS SUBDIVISION, AND HIS OR HER SUCCESSORS AND ASSIGNS, ASSUMES SOLE RESPONSIBILITY FOR PLANS FOR CONSTRUCTION OF SUBDIVISION IMPROVEMENTS WHICH COMPLY WITH APPLICABLE CODES AND REQUIREMENTS OF THE CITY OF BASTROP. THE OWNER UNDERSTANDS AND ACKNOWLEDGES THAT PLAT VACATION OR RE-PLATTING MAY BE REQUIRED, AT THE OWNER'S SOLE EXPENSE, IF PLANS TO CONSTRUCT THIS SUBDIVISION DO NOT COMPLY WITH SUCH CODES AND REQUIREMENTS.
8. BY APPROVING THIS FINAL PLAT, THE CITY OF BASTROP ASSUMES NO OBLIGATION TO CONSTRUCT ANY INFRASTRUCTURE IN CONNECTION WITH THIS SUBDIVISION. ANY SUBDIVISION INFRASTRUCTURE REQUIRED FOR THE DEVELOPMENT OF THE LOTS IN THIS SUBDIVISION IS THE SOLE RESPONSIBILITY OF THE DEVELOPER AND/OR THE OWNERS OF THE LOTS. FAILURE TO CONSTRUCT ANY REQUIRED INFRASTRUCTURE TO THE CITY STANDARDS MAY BE JUST CAUSE FOR THE CITY TO DENY APPLICATIONS FOR CERTAIN DEVELOPMENT PERMITS INCLUDING BUILDING PERMITS, SITE PLAN APPROVALS AND/OR CERTIFICATE OF OCCUPANCY.
9. FISCAL SURETY FOR SUBDIVISION CONSTRUCTION, IN A FORM ACCEPTABLE TO THE CITY OF BASTROP, SHALL BE PROVIDED PRIOR TO PLAT APPROVAL BY THE CITY.
10. NO LOT IN THIS SUBDIVISION SHALL BE OCCUPIED UNTIL CONNECTED TO THE APPROVED WATER DISTRIBUTION AND WASTEWATER CONNECTION FACILITIES
11. WASTEWATER AND WATER SYSTEMS SHALL CONFORM TO TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) REQUIREMENTS.
12. ALL NEW UTILITIES WILL BE UNDERGROUND.
13. IMPACT FEES SHALL BE ASSESSED IN ACCORDANCE WITH THE ORDINANCE EFFECTIVE AT THE TIME OF PLATTING.
14. DEVELOPER OR PROPERTY OWNER SHALL BE SOLELY RESPONSIBLE FOR ALL RELOCATIONS AND MODIFICATIONS TO EXISTING UTILITIES.
15. NO PORTION OF THIS TRACT LIES WITHIN A DESIGNATED FLOOD HAZARD AREA, AS SHOWN ON THE FEDERAL FLOOD INSURANCE ADMINISTRATION RATE MAP PANEL NO. 48211C0355F, FOR BASTROP COUNTY TEXAS, EFFECTIVE MAY 9, 2023. COMMUNITY NUMBER 481193.
16. TEMPORARY AND PERMANENT EASEMENTS ARE TO BE PROVIDED AS REQUIRED AT THE CITY'S SOLE DISCRETION FOR OFF-SITE IMPROVEMENTS.
17. AS SHOWN HEREON, A TEN (10) FOOT WIDE PUBLIC UTILITY EASEMENT (P.U.E.) IS HEREBY DEDICATED ADJACENT TO STREET RIGHT-OF-WAY ON ALL LOTS. A FIVE (5) FOOT WIDE P.U.E. IS HEREBY DEDICATED ALONG EACH SIDE AND REAR LOT LINE.
18. PROPERTY OWNERS SHALL PROVIDE FOR ACCESS TO ALL EASEMENTS AS MAY BE NECESSARY AND SHALL NOT PROHIBIT ACCESS BY GOVERNMENTAL AUTHORITIES.
19. NO BUILDING, FENCES, LANDSCAPING OR OTHER STRUCTURES ARE PERMITTED WITHIN DRAINAGE EASEMENTS SHOWN, EXCEPT AS APPROVED BY THE CITY OF BASTROP AND/OR BASTROP COUNTY.
20. ALL EASEMENTS ON PRIVATE PROPERTY SHALL BE MAINTAINED BY THE PROPERTY OWNER OR HIS OR HER ASSIGNEES.
21. NO LOT OR STRUCTURE SHALL BE OCCUPIED PRIOR TO THE APPLICANT SUBMITTING TO THE CITY OF BASTROP DOCUMENTATION OF SUBDIVISION/SITE REGISTRATION WITH THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS (TDLR) AND PROVIDE DOCUMENTATION OF REVIEW AND COMPLIANCE OF THE SUBDIVISION CONSTRUCTION PLANS WITH TEXAS ARCHITECTURAL BARRIERS ACT (TABA).
22. PUBLIC UTILITY AND DRAINAGE EASEMENTS WHERE SHOWN HEREON AND/OR DESCRIBED HEREON ARE INTENDED TO INDICATE AN EASEMENT FOR CONSTRUCTION, OPERATION, AND MAINTENANCE OF PUBLIC UTILITIES AND DRAINAGE WAYS; INCLUDING, BUT NOT LIMITED TO, SANITARY SEWERS, FORCE MAINS, WATER LINES, TELEPHONE SIGNAL CONDUITS, ELECTRIC CONDUCTORS, DRAINAGE PIPES AND NATURAL GAS LINES.
23. A BASTROP COUNTY DEVELOPMENT PERMIT IS REQUIRED PRIOR TO ANY SITE DEVELOPMENT.
24. ALL INFRASTRUCTURE REQUIRED FOR PUBLIC ROADS, DRAINAGE, OR OTHER PUBLIC INFRASTRUCTURE (INCLUDING BUT NOT LIMITED TO LIGHTING, SIGNAGE, TRAFFIC LIGHTS, SIDEWALKS, PARKING AREAS, STORM SEWERS, OR OTHER DRAINAGE INFRASTRUCTURE), SHALL BE MAINTAINED BY THE DEVELOPER, OR THEIR ASSIGNS, UNTIL SUCH A TIME THAT IT IS ACCEPTED, IF AT ALL, BY A GOVERNMENTAL ENTITY FOR MAINTENANCE.
25. UNTIL SUCH A TIME AS BASTROP COUNTY, THROUGH THE BASTROP COUNTY COMMISSIONERS COURT, ACCEPTS THE DEDICATION OF THE IMPROVEMENTS DELINEATED AND SHOWN ON THIS FINAL PLAT, SAID IMPROVEMENTS ARE NOT BASTROP COUNTY IMPROVEMENTS AND ARE NOT SUBJECT TO BASTROP COUNTY MAINTENANCE.
26. THIS SUBDIVISION IS LOCATED WITHIN THE STATUTORY ETJ OF THE CITY OF BASTROP.
27. ALL DRAINAGE EASEMENTS, STORM WATER FACILITIES / FEATURES SHALL BE MAINTAINED BY THE PROPERTY OWNER OR HIS OR HER ASSIGNS.
28. ALL WORK, INCLUDING SIGNS, SHALL COMPLY WITH THE CITY OF BASTROP ORDINANCES AND THE CONSENT AGREEMENT FOR THE COLONY MUD NUMBER 1 AND SUBSEQUENT AMENDMENTS.
29. THE DEVELOPER, BUILDER, SELLER, OR AGENT SHALL INFORM, IN WRITING, EACH BUYER OF SUBDIVISION LOTS OR PROPERTY LOCATED WITHIN THE FLOOD HAZARD AREAS THAT SUCH PROPERTY IS AN IDENTIFIED FLOOD HAZARD AREA.
30. ALL EASEMENTS OF RECORD AS INDICATED ON THE MOST RECENT TITLE COMMITMENT EFFECTIVE DATE JANUARY 11, 2026, CONDUCTED BY OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY, TITLE COMMITMENT NO. 2026010057-AM, ISSUED BY OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY FOR THIS PROPERTY ARE SHOWN ON THIS FINAL PLAT.
31. AN OWNER'S ASSOCIATION AND/OR M.U.D. IS RESPONSIBLE FOR THE MAINTENANCE OF LANDSCAPE EASEMENTS, DRAINAGE EASEMENTS, STREET LIGHTING, PRIVATE PARKS AND ALL OTHER COMMON AREAS.
32. PUBLIC UTILITY AND DRAINAGE EASEMENTS WHERE SHOWN AND/OR DESCRIBED HEREON ARE INTENDED TO INDICATE AN EASEMENT FOR CONSTRUCTION, OPERATION, AND MAINTENANCE OF PUBLIC UTILITIES AND DRAINAGE WAYS; INCLUDING, BUT NOT LIMITED TO, SANITARY SEWERS, FORCE MAINS, WATER LINES, TELEPHONE SIGNAL CONUITS, ELECTRICAL CONDUCTORS, DRAINAGE PIPES, AND NATURAL GAS LINES.
33. PROPERTY IN THIS SUBDIVISION SHALL BE DEVELOPED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS INCLUDING, BUT NOT LIMITED TO: BASTROP COUNTY 9-1-1 ADDRESSING ASSIGNMENT, DRIVEWAY/CULVERT, DEVELOPMENT, FLOODPLAIN, ON-SITE SEWAGE FACILITY, AND LOST PINES HABITAT CONSERVATION PLAN.
34. COUNTY PERMITS ARE OBTAINED AND ISSUED THROUGH THE BASTROP COUNTY DEVELOPMENT SERVICES DEPARTMENT.
35. NO STRUCTURES MAY BE BUILT IN ANY EASEMENT. ANY EXISTING STRUCTURES LOCATED IN A PUBLIC UTILITIES EASEMENT MUST BE REMOVED AT UTILITY COMPANY DISCRETION.
36. NO STRUCTURES OR LAND USE (INCLUDING BUT NOT LIMITED TO BUILDINGS, FENCES, LANDSCAPING) THAT NEGATIVELY IMPACTS STORMWATER FLOWS SHALL BE ALLOWED IN AREAS DESIGNATED AS PONDS, DRAINAGE EASEMENTS OR DETENTION/RETENTION AREAS.
37. THE CONSENT AGREEMENT LAND USE TYPE FOR THIS PLAT IS COLONY C-1 (COMMERCIAL LOT).
38. THE PURPOSE OF THIS AMENDED PLAT IS TO SPLIT LOT 1, BLOCK A INTO 3 SEPARATE LOTS.
39. THIS TRACT IS SUBJECT TO THE FOLLOWING EASEMENTS OF RECORD:
    a. A 20' WATER LINE EASEMENT GRANTED TO AQUA WATER SUPPLY CORPORATION, RECORDED IN DOCUMENT NUMBER 202610981, OFFICIAL PUBLIC RECORDS, BASTROP COUNTY, TEXAS.
    (20' BLANKET TYPE, CENTERED AS INSTALLED.)
    b. ACCESS AND DRAINAGE EASEMENTS DECLARED BY MARKET AT THE COLONY, LLC, AND RECORDED IN DOCUMENT NUMBER 202607046, OFFICIAL PUBLIC RECORDS OF BASTROP COUNTY, TEXAS.
    (BLANKET TYPE)
43. THIS TRACT IS SUBJECT TO THE DECLARATION OF RESTRICTIONS RECORDED IN DOCUMENT NUMBER 202607048, OFFICIAL PUBLIC RECORDS, BASTROP COUNTY, TEXAS..

FLOODPLAIN NOTES:

1. EROSION AND SEDIMENTATION CONTROLS, CONSTRUCTED IN ACCORDANCE WITH THE CODE OF ORDINANCES OF THE CITY OF BASTROP, ARE REQUIRED FOR ALL CONSTRUCTION ON EACH LOT, INCLUDING SINGLE FAMILY, DUPLEX, AND MULTI-FAMILY CONSTRUCTION.
2. FLOOD WARNING: THE DEGREE OF FLOOD WATER PROTECTION REQUIRED BY THE CITY OF BASTROP AND BASTROP COUNTY FLOOD DAMAGE PREVENTION ORDER IS CONSIDERED REASONABLE FOR REGULATORY PURPOSES AND IS BASED ON SCIENTIFIC AND ENGINEERING CONSIDERATIONS. ON RARE OCCASIONS, GREATER FLOODS CAN AND WILL OCCUR AND FLOOD HEIGHTS MAY BE INCREASED BY MAN-MADE OR NATURAL CAUSES. ACCEPTANCE OF THIS FINAL PLAT BY THE CITY COUNCIL AND COMMISSIONERS COURT DOES NOT IMPLY THAT LAND OUTSIDE OF THE AREA OF SPECIAL FLOOD HAZARDS OR USES PERMITTED IN SUCH AREAS WILL BE FREE FROM FLOODING OR FLOOD DAMAGES. NOR SHALL ACCEPTANCE OF THIS FINAL PLAT CREATE LIABILITY ON THE PART OF THE CITY OF BASTROP, BASTROP COUNTY OR ANY OFFICIAL OR EMPLOYEE THEREOF FOR ANY FLOOD DAMAGES THAT RESULT FROM RELIANCE ON THE INFORMATION CONTAINED WITHIN THIS FINAL PLAT OR ANY ADMINISTRATION DECISION LAWFULLY MADE HEREUNDER.

STATE OF TEXAS §
§ KNOW ALL MEN BY THESE PRESENTS
COUNTY OF BASTROP §

THAT WE, SANFORD P. ARON, MANAGER, MARKET AT THE COLONY, LLC, A TEXAS LIMITED LIABILITY COMPANY, BEING THE OWNER OF LOTS 1 & 2, THE COLONY COMMERCIAL, A SUBDIVISION RECORDED IN CABINET 10, PAGE 24-A, SITUATED IN THE JOSE MANUEL BANGS SURVEY, ABSTRACT NUMBER 5, SITUATED IN BASTROP COUNTY, TEXAS AND SCOTT MCMANUS, PRESIDENT/CEO, NATIONAL BANK & TRUST, BEING THE OWNER OF LOT 3, SAID THE COLONY COMMERCIAL, DO HEREBY SUBDIVIDE 6.541 ACRES OF LAND WITH THE PLAT SHOWN HEREON, TO BE KNOWN AS:

"REPLAT OF THE COLONY COMMERCIAL"

SUBJECT TO EASEMENTS AND RESTRICTIONS HERETOFORE GRANTED AND NOT RELEASED AND DO HEREBY DEDICATE EASEMENTS SHOWN HEREON TO THE PUBLIC.

WITNESS MY HAND THIS _____ DAY OF _____, 20____, A.D.

_____
SANFORD P. ARON, MANAGER
MARKET AT THE COLONY, LLC, A TEXAS LIMITED LIABILITY COMPANY
3773 RICHMOND AVE. STE. 800
HOUSTON, TEXAS 77046

WITNESS MY HAND THIS _____ DAY OF _____, 20____, A.D.

_____
SCOTT MCMANUS
PRESIDENT/CEO
NATIONAL BANK & TRUST
3773 RICHMOND AVE. STE. 800
HOUSTON, TEXAS 77046

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED SANFORD P. ARON, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT OF WRITING, AND THEY ACKNOWLEDGED TO ME THAT THEY EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS THEREIN EXPRESSED AND IN THE CAPACITY THEREIN STATED.

WITNESS MY HAND AND SEAL OF OFFICE, THIS THE _____ DAY OF _____, 20___, A.D.

_____
NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED SCOTT MCMANUS, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE FOREGOING INSTRUMENT OF WRITING, AND THEY ACKNOWLEDGED TO ME THAT THEY EXECUTED THE SAME FOR THE PURPOSES AND CONSIDERATIONS THEREIN EXPRESSED AND IN THE CAPACITY THEREIN STATED.

WITNESS MY HAND AND SEAL OF OFFICE, THIS THE _____ DAY OF _____, 20___, A.D.

_____
NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS

FLOODPLAIN NOTE:

NO PORTION OF THIS TRACT LIES WITHIN A DESIGNATED FLOOD HAZARD AREA, AS SHOWN ON THE FEDERAL FLOOD INSURANCE ADMINISTRATION RATE MAP NO. 48021C0355F FOR BASTROP COUNTY TEXAS, DATED MAY 9, 2023. COMMUNITY NUMBER 481193.

THIS FLOOD STATEMENT, AS DETERMINED BY A H.U.D.-F.I.A. FLOOD INSURANCE RATE MAP, DOES NOT IMPLY THAT THE PROPERTY OR THE IMPROVEMENTS THEREON WILL BE FREE FROM FLOODING OR FLOOD DAMAGE. ON RARE OCCASIONS, GREATER FLOODS CAN AND WILL OCCUR, AND FLOOD HEIGHTS MAY INCREASE BY MAN-MADE OR NATURAL CAUSES.

THIS STATEMENT SHALL NOT CREATE LIABILITY ON THE PART OF THE ENGINEER OR SURVEYOR.

STATE OF TEXAS §
§ KNOW ALL MEN BY THESE PRESENTS
COUNTY OF BASTROP §

I, BRETT R. PASQUARELLA, P.E., DO HEREBY CERTIFY THAT THE INFORMATION CONTAINED ON THIS PLAT COMPLIES WITH THE SUBDIVISION REGULATIONS FOR THE CITY OF BASTROP.

ENGINEERING BY: _____ DATE _____
BRETT R. PASQUARELLA, P.E. #84769
CARLSON, BRIGANCE & DOERING, INC.
5501 WEST WILLIAM CANNON DRIVE
AUSTIN, TEXAS 78749

STATE OF TEXAS — BRETT R. PASQUARELLA — 84769 — LICENSED PROFESSIONAL ENGINEER
CARLSON, BRIGANCE & DOERING, INC.
ID# F3791

STATE OF TEXAS §
§ KNOW ALL MEN BY THESE PRESENTS
COUNTY OF BASTROP §

THAT I, AARON V. THOMASON, DO HEREBY CERTIFY THAT I PREPARED THIS PLAT FROM AN ACTUAL AND ACCURATE ON-THE-GROUND SURVEY OF THE LAND AND THAT THE CORNER MONUMENTS SHOWN THEREON WERE PROPERLY PLACED UNDER MY PERSONAL SUPERVISION, IN ACCORDANCE WITH THE SUBDIVISION REGULATION OF THE CITY OF BASTROP, BASTROP COUNTY, TEXAS. ALL EASEMENTS OF RECORD AS SHOWN ON THE TITLE COMMITMENT ISSUED BY OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY, COMMITMENT NO. 2026010057-AM, EFFECTIVE DATE JANUARY 11, 2026, ISSUED DATE JANUARY 20, 2026, HAVE BEEN IDENTIFIED ON THIS PLAT TO THE BEST OF MY KNOWLEDGE.

SURVEYED BY: _____ DATE _____
AARON V. THOMASON ~ R.P.L.S. NO. 6214
CARLSON, BRIGANCE & DOERING, INC.
5501 WEST WILLIAM CANNON DRIVE
AUSTIN, TEXAS 78749

STATE OF TEXAS — REGISTERED — AARON V. THOMASON — 6214 — PROFESSIONAL LAND SURVEYOR

APPROVED THIS DAY _____ OF _____, 20____ A.D. BY THE PLANNING & ZONING COMMISSION OF THE CITY OF BASTROP, TEXAS.

APPROVED: ATTEST:

_____ _____
PLANNING & ZONING COMMISSION CHAIRPERSON CITY SECRETARY

STATE OF TEXAS §
COUNTY OF BASTROP §

I, KRISTA BARTSCH, COUNTY CLERK OF BASTROP COUNTY, TEXAS, DO HEREBY CERTIFY THAT THE FOREGOING INSTRUMENT OF WRITING AND ITS CERTIFICATE OF AUTHENTICATION WAS FILED FOR RECORD IN MY OFFICE ON THE _____ DAY OF _____, 20____, A.D. AT _____ O'CLOCK _____, IN THE PLAT RECORDS OF BASTROP COUNTY, TEXAS IN PLAT CABINET _____, PAGE _____.

FILED FOR RECORD ON THE _____ DAY OF _____, 20____ A.D.

_____ _____
DEPUTY COUNTY CLERK, BASTROP COUNTY, TEXAS

SHEET NO. 2 OF 2

Carlson, Brigance & Doering, Inc.
FIRM ID #F3791 ◆ REG. # 10024900
Civil Engineering ◆ Surveying
5501 West William Cannon ◆ Austin, Texas 78749
Phone No. (512) 280-5160 ◆ Fax No. (512) 280-5165

J:\AC3D\5677\Survey\AMENDED PLAT - THE COLONY COMMERCIAL

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

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National Bank & Trust - Bastrop
264 FM 969 BLDG. 3
BASTROP, TX 78602

Project Number : 5816

Carlson, Brigance & Doering, Inc.
Civil Engineering ◆ Surveying
5501 West William Cannon ◆ Austin, Texas 78749
Phone No. (512) 280-5160 ◆ Fax No. (512) 280-5165

REVISIONS

MARK	DESCRIPTION	DATE

PRINT DATE: September 2026

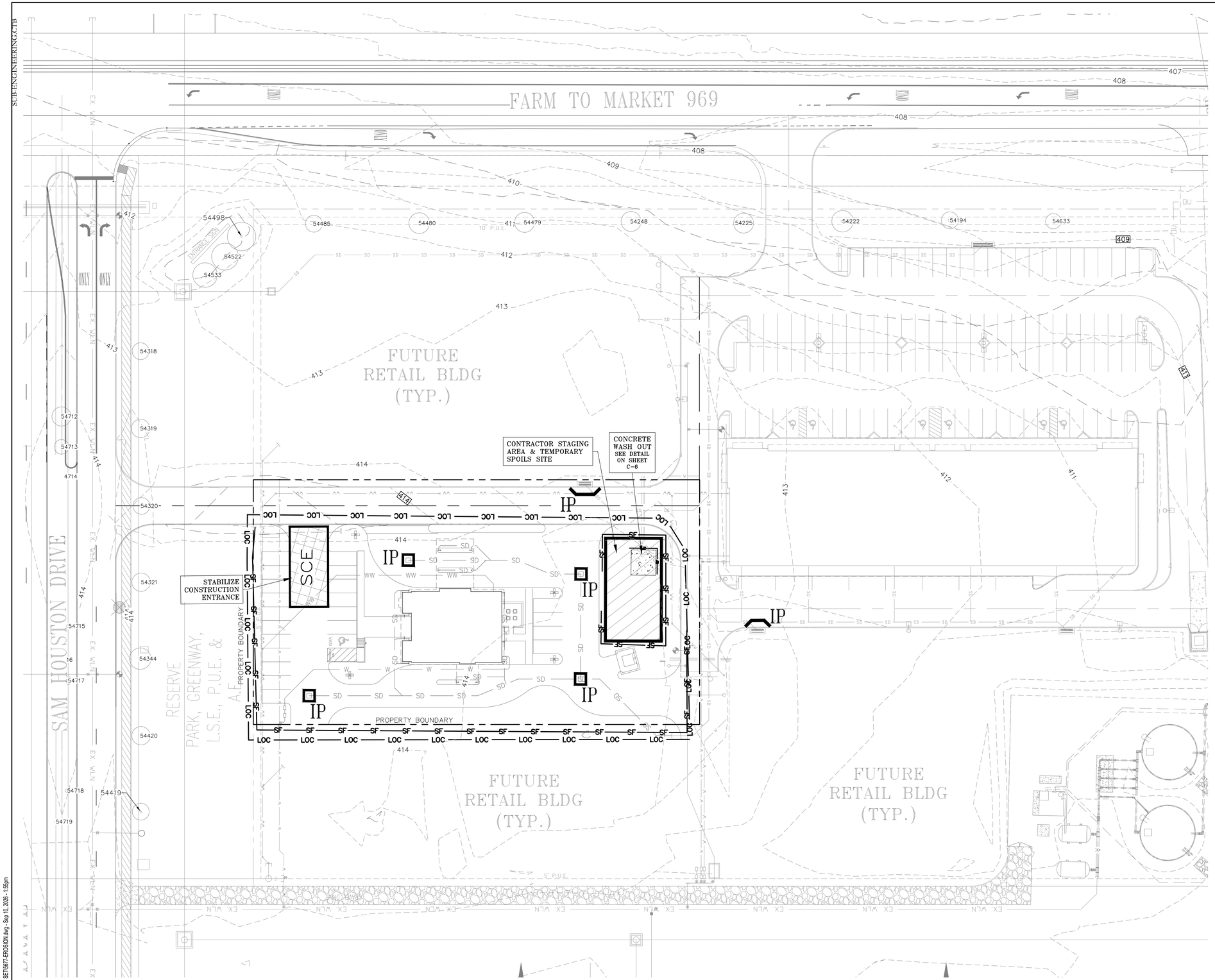
STATE OF TEXAS — JOANN A. EAGLE — 97597 — LICENSED PROFESSIONAL ENGINEER
CARLSON, BRIGANCE & DOERING, INC.
09/10/2026 ID# F3791

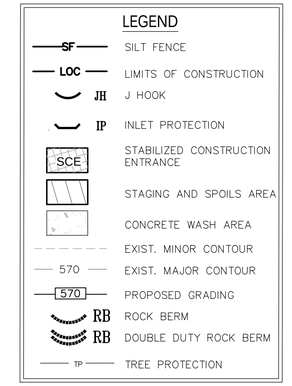
DRAWING TITLE
FINAL PLAT (2 OF 2)

DRAWN BY	CP
CHECKED BY	JAE
APPROVED BY	JAE

SHEET NO. C-4

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SCALE: 1" = 30'

TREE NOTES:
THERE ARE NO TREES ON THIS PROPERTY.

NOTES:

INLET PROTECTION: 5
ROCK BERM: 0
SILT FENCE: 718 LF
LIMITS OF CONSTRUCTION AREA:
41,751SF (0.958 ACRES)

SLOPE NOTES:

1. ALL SLOPES ARE 0–15%.

CONTRACTOR EROSION CONTROL NOTE: EROSION CONTROL INSTALLATION, MAINTENANCE, AND REMOVAL ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MUST REMOVE ALL EROSION CONTROL, ONCE VEGETATION IS ESTABLISHED. IF EROSION CONTROL RESPONSIBILITY IS TURNED OVER TO ANOTHER PARTY, CONTRACTOR MUST PROVIDE AN EMAIL NOTIFICATION TO THE ENGINEER OF RECORD.

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

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National Bank & Trust - Bastrop

264 FM 969 BLDG. 3
BASTROP, TX 78602

Project Number : 5816

Carlson, Brigance & Doering, Inc.
Civil Engineering ◆ Surveying
5501 West William Cannon ◆ Austin, Texas 78749
Phone No. (512) 280-5160 ◆ Fax No. (512) 280-5165

REVISIONS

MARK	DESCRIPTION	DATE

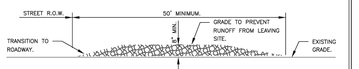
PRINT DATE: September 2026

STATE OF TEXAS
JOANN A. EAGLE
97597
LICENSED PROFESSIONAL ENGINEER
CARLSON, BRIGANCE & DOERING, INC.
09/10/2026 ID# F3791

DRAWING TITLE
EROSION CONTROL PLAN

DRAWN BY	CP
CHECKED BY	JAE
APPROVED BY	JAE
SHEET NO.	C-5

FILE PATH: J:\ACD\2018\18\Dwg\SHEET SET\5817-EROSION.dwg - Sep 10, 2026 - 1:55pm
SUB-ENGINEERING.CTB



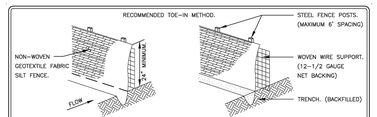
NOTES:

1. A STABILIZED CONSTRUCTION ENTRANCE APPLIES TO ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO A PUBLIC RIGHT OF WAY, STREET, ALLEY, SIDEWALK, OR PARKING AREA.
2. STONE SIZE SHALL BE 4" – 8" OPEN GRADED ROCK.
3. THICKNESS OF CRUSHED STONE PAD TO BE NOT LESS THAN 8".
4. LENGTH SHALL BE A MINIMUM OF 50' FROM ACTUAL ROADWAY, AND WIDTH NOT LESS THAN FULL WIDTH OF INGRESS/EGRESS.
5. ENTRANCE SHALL BE PROPERLY GRADED TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY BY CONTRACTOR.

AS NECESSARY, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS APPROVED MAY 24, 2011 DATE THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.	CITY OF BASTROP STABILIZED CONSTRUCTION ENTRANCE DETAIL	DRAWING NO: EC-01

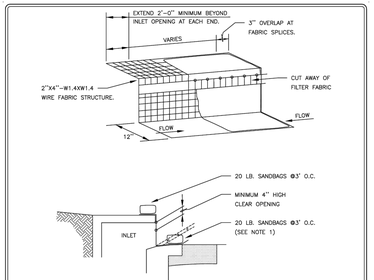


TRENCH CROSS-SECTION

NOTES:

1. SILT FENCE SHALL CONFORM TO CITY OF BASTROP SPECIFICATION 642.
2. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MIN. OF ONE (1') FOOT.
3. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT) WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON UPHILL SIDE TO PREVENT FLOW UNDER FENCE.
4. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
5. SILT FENCE SHALL BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS SECURELY FASTENED TO THE STEEL FENCE POSTS.
6. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
7. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
8. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES. THE SILT SHALL BE DISPOSED OF IN AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

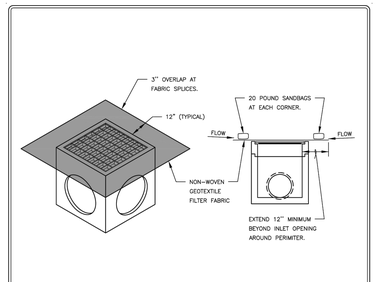
RECORD SIGNED COPY ON FILE AT PUBLIC WORKS APPROVED MAY 24, 2011 DATE THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.	CITY OF BASTROP SILT FENCE DETAIL	DRAWING NO: EC-02



NOTES:

1. WHERE MINIMUM CLEARANCES CAUSE TRAFFIC TO DRIVE IN THE GUTTER, THE CONTRACTOR MAY SUBSTITUTE A 1" X 4" BOARD SECURED WITH CONCRETE NAILS 3' O.C. NAILED INTO THE GUTTER IN LIEU OF SANDBAGS TO HOLD THE FILTER DIKE IN PLACE. UPON REMOVAL, CLEAN ANY DIRT/DEBRIS FROM NAILING LOCATIONS, APPLY CHEMICAL SANDING AGENT AND APPLY NON-SHRINK GROUT FLUSH WITH SURFACE OF GUTTER.
2. A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
3. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
4. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF THE STORM-WATER BEGINS TO OVERTOP THE CURB.
5. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS APPROVED MAY 24, 2011 DATE THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.	CITY OF BASTROP CURB INLET PROTECTION DETAIL	DRAWING NO: EC-03



NOTES:

1. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
2. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY CLEAN THE INLET PROTECTION IF EXCESSIVE PONDING OCCURS.
3. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS APPROVED MAY 24, 2011 DATE THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.	CITY OF BASTROP AREA INLET PROTECTION DETAIL	DRAWING NO: EC-04

CONCRETE WASHOUT AREA NOTES:

1. WASHOUT SHALL BE INSTALLED PRIOR TO PLACING ANY CONCRETE ON-SITE.

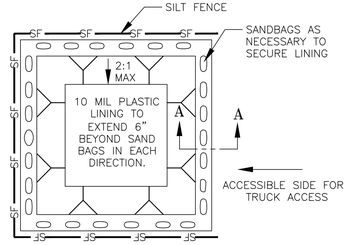
2. INSTALL DIRECTIONAL SIGNS AS NECESSARY TO INDICATE WASHOUT LOCATION TO CONCRETE SUPPLY VEHICLES.

3. WASHOUT SHALL BE INSPECTED WEEKLY AND AFTER RAIN EVENTS IN ACCORDANCE WITH SWPPP.

4. CONTRACTOR TO MAINTAIN, REPAIR, ENLARGE OR RELOCATE WASHOUT AS NECESSARY TO MEET PROJECT REQUIREMENTS.

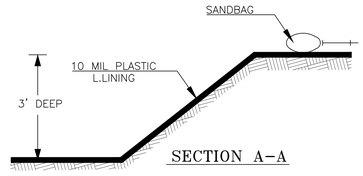
5. WHEN NECESSARY DURING CONSTRUCTION, OR AT THE COMPLETION OF ALL CONSTRUCTION, CONCRETE SHALL BE REMOVED AND LAWFULLY DISPOSED OF AND THE WASHOUT AREA FILLED WITH COMPACTED SELECT FILL.

6. CONCRETE WASHOUT SHALL NOT BE LOCATED WITHIN 50' OF STORM INLET, DITCH, OR SUBSURFACE DRAINAGE SYSTEM.



PLAN
N.T.S

NOTE: SIZE VARIES BASED ON ANTICIPATED VOLUME OF CONCRETE TO BE PLACED. MINIMUM SIZE 8'X8' BOTTOM.



SECTION A-A

CONCRETE WASHOUT DETAIL
N.T.S

EROSION AND SEDIMENTATION CONTROL:

1. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND FENCING FOR AREAS OUTSIDE OF THE CONSTRUCTION AREA PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING AND EXCAVATION).
2. THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS, AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.
3. PRIOR TO FINAL ACCEPTANCE, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING DEBRIS SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES.
4. ANY METHODS, STREET MARKINGS AND SIGNAGE NECESSARY FOR WARNING MOTORISTS, WARNING PEDESTRIANS OR DIVERTING TRAFFIC DURING CONSTRUCTION SHALL CONFORM TO THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITION.
5. ALL PAVEMENT MARKINGS, MARKERS, PAINT, TRAFFIC BUTTONS, TRAFFIC CONTROLS AND SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS. STREETS, BRIDGES, AND THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, LATEST EDITIONS.

   EROSION CONTROL MEASURES, SITE WORK AND RESTORATION WORK SHALL BE IN ACCORDANCE WITH THE CITY OF BASTROP CODE OF ORDINANCES.
6. ALL SLOPES SHALL BE SODDED OR SEEDED WITH APPROVED GRASS, GRASS MIXTURES OR GROUND COVER SUITABLE TO THE AREA AND SEASON IN WHICH THEY WERE APPLIED.
7. SILT FENCES, ROCK BERMS, SEDIMENTATION BASINS AND SIMILARLY RECOGNIZED TECHNIQUES AND MATERIALS SHALL BE EMPLOYED DURING CONSTRUCTION TO PREVENT POINT SOURCE SEDIMENTATION LOADING OF DOWNSTREAM FACILITIES. SUCH INSTALLATION SHALL BE REGULARLY INSPECTED BY THE
8. CITY OF BASTROP FOR EFFECTIVENESS. ADDITIONAL MEASURES MAY BE REQUIRED IF, IN THE OPINION OF THE CITY ENGINEER, THEY ARE WARRWNTED.

   ALL TEMPORARY EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL FINAL INSPECTION AND APPROVAL OF THE PROJECT BY THE CITY INSPECTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL TEMPORARY EROSION CONTROL STRUCTURES AND TO REMOVE EACH
9. STRUCTURE AS APPROVED BY THE CITY INSPECTOR.

   ALL MUD, DIRT, ROCKS, DEBRIS, ETC., SPILLED, TRACKED OR OTHERWISE DEPOSITED ON EXISTING PAVED STREETS. DRIVES AND AREAS USED BY THE PUBLIC SHALL BE CLEANED UP IMMEDIATELY.
10. 11. PERMANENT EROSION CONTROL: ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW:

    A. A MINIMUM OF FOUR (4) INCHES OF TOPSOIL SHALL BE PLACED IN ALL DRAINAGE CHANNELS (EXCEPT ROCK), AND BETWEEN THE CURB AND RIGHT-OF-WAY.

    B. THE SEEDING FOR PERMANENT EROSION CONTROL SHALL BE APPLIED OVER AREAS DISTURBED BY CONSTRUCTION AS FOLLOWS:

       (I) FROM OCTOBER TO FEBRUARY, SEEDING SHALL BE WITH ONE (1) POUND PER 1,000 SQUARE FEET OF UNHULLED BERMUDA OR THREE (3) POUNDS PER

       (II) FROM MARCH TO SEPTEMBER, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF ONE (1) POUND PER 1,000 SQUARE FEET, WITH A PURITY OF 95% WITH 85% GERMINATION.

       FERTILIZER SHALL BE SLOW RELEASE GRANULAR OR PALETTE TYPE, AND SHALL HAVE AN ANALYSIS OF 15-15-15, AND SHALL BE APPLIED AT THE RATE OF ONE (1) POUND PER 1,000 SQUARE FEET, ONCE AT THE TIME OF PLANTING, AND AGAIN ONCE DURING THE TIME OF ESTABLISHMENT.

       MULCH TYPE USED SHALL BE STRAW OR HAY APPLIED AT A RATE OF 45 POUNDS PER 1,000 SQUARE FEET.

       (I) FROM OCTOBER TO FEBRUARY, SEEDING SHALL BE WITH ONE (1) POUND PER 1,000 SQUARE FEET OF UNHULLED BERMUDA OR THREE (3) POUNDS PER 1,000 SQUARE FEET OF WINTER RYE, WITH A % GERMINATION.

       (II) FROM MARCH TO SEPTEMBER, SEEDING SHALL BE WITH HULLED BERMUDA AT A RATE OF ONE (1) POUND PER 1,000 SQUARE FEET WITH A PURITY OF 95% WITH 95% GERMINATION.

       FERTILIZER SHALL BE A WATER SOLUBLE FERTILIZER WITH AN ANALYSIS OF 15-15-15 AT A RATE OF 1.5 POUNDS PER 1,000 SQUARE FEET.

       MULCH TYPE SHALL BE HAY, STRAW OR MULCH APPLIED AT A RATE OF 45 POUNDS PER 1,000 SQUARE FEET, WITH A SOIL TACKIFIER AT A RATE OF 1.4 POUNDS PER 1,000 SQUARE FEET.

    C. THE PLANTED AREA SHALL BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK TO A DEPTH OF SIX (6) INCHES. THE IRRIGATION SHALL OCCUR AT 10-DAY INTERVALS DURING THE FIRST TWO (2) MONTHS. RAINFALL OCCURRENCES OF 1/2 INCH OR MORE SHALL POSTPONE THE WATERING SCHEDULE FOR TEN (10) DAYS.

    D. RESTORATION SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1 INCH HIGH WITH % COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 20 SQUARE FEET EXIST.

EROSION CONTROL PLAN.

(A) STORMWATER POLLUTION PREVENTION PLANS (SWPPPS) SHALL BE SUBMITTED FOR REVIEW TO THE CITY ENGINEER PRIOR TO RELEASE OF CONSTRUCTION PROJECTS. THE RESPONSIBLE PARTY AND THEIR ENGINEER SHALL BE RESPONSIBLE FOR PREPARATION OF AN SWPPP IN ACCORDANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) AND U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) REQUIREMENTS.

(B) TCEQ AND EPA PERMITTING SHALL ALSO BE THE RESPONSIBILITY OF THE RESPONSIBLE PARTY AND THEIR ENGINEER.

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Carlson, Brigance & Doering, Inc.
Civil Engineering ◆ Surveying
3501 West William Cannon ◆ Austin, Texas 78749
Phone No. (512) 280-5160 ◆ Fax No. (512) 280-5165

REVISIONS

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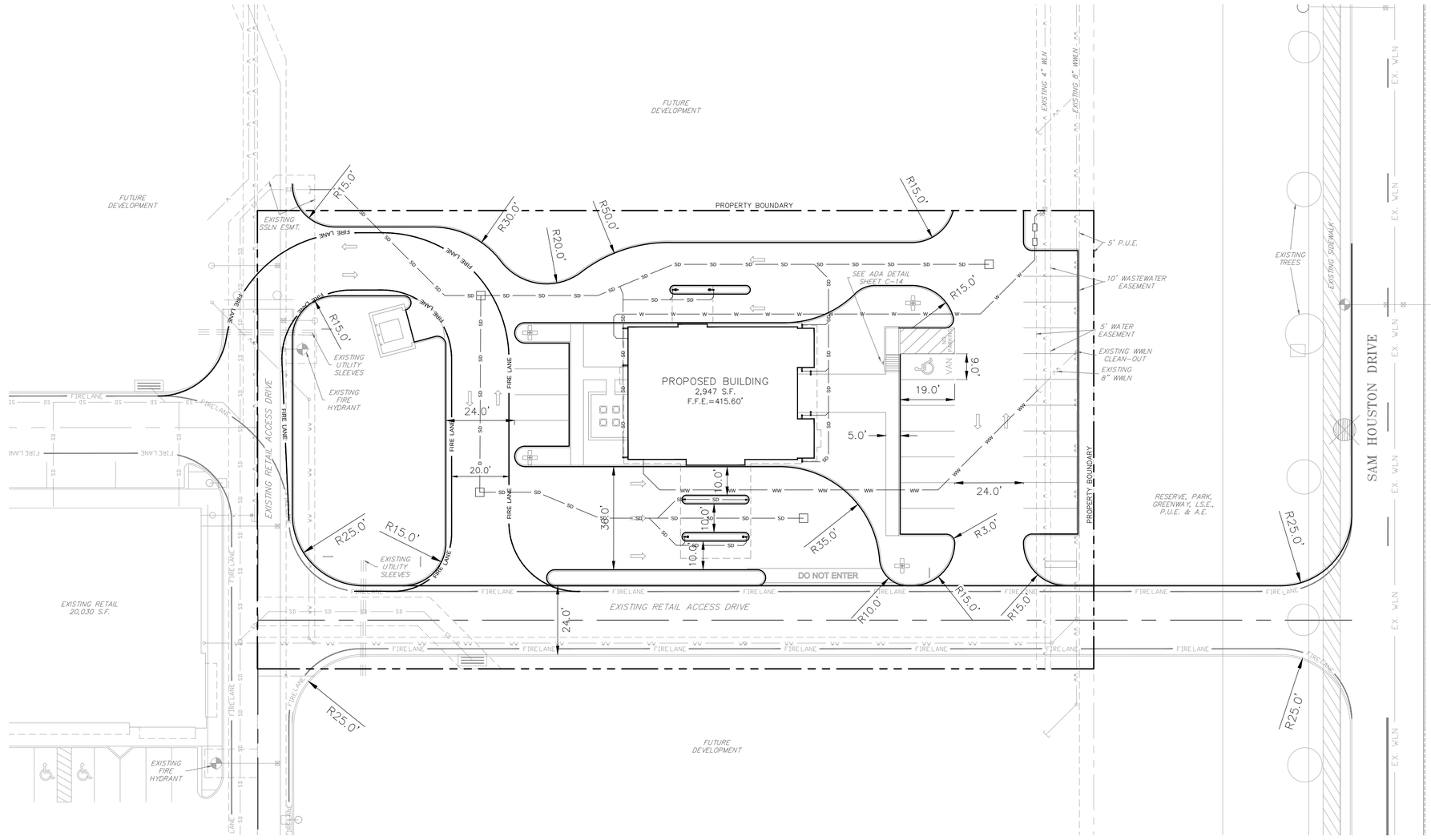
PRINT DATE: September 2026

STATE OF TEXAS
JOANN A. EAGLE
97597
LICENSED PROFESSIONAL ENGINEER
CARLSON, BRIGANCE & DOERING, INC.
09/10/2026 ID# F3791

DRAWING TITLE
EROSION CONTROL NOTES & DETAILS

DRAWN BY	CP	SHEET NO.
CHECKED BY	JAE	C-6
APPROVED BY	JAE	

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SITE PLAN LEGEND

- PROPERTY BOUNDARY
- EASEMENT
- ROOF DRAINAGE PIPE
- FENCE
- FIRE LINE — FIRE LINE
- EXISTING SIDEWALK
- PROPOSED SIDEWALK
- VEGETATION (SEE LANDSCAPE PLAN)
- PROPOSED LIGHT
- FIRE HYDRANT
- EX. FIRE HYDRANT
- A/C
- EXISITNG LIGHT
- STREET-END BARRICADE DETAIL #8035-1
- SIGN

0 20' 40'

SCALE: 1" = 20'

SITE CALCULATIONS

Total Site Area = 1.072 Acres

PROPOSED TOTAL IMPERVIOUS COVER

Pavement area =	29,306 sq. ft. =	0.6728	Acres
Building Area =	2,947 sq. ft. =	0.0677	Acres
Other Areas (sidewalks, etc.) =	1,601 sq. ft. =	0.0368	Acres
Total Proposed Impervious Cover (IC) =	33,854 sq. ft. =	0.777	Acres
Total Proposed Impervious Cover, % =	:	72.5%	
Allowed Impervious Cover, % =	=	80%	

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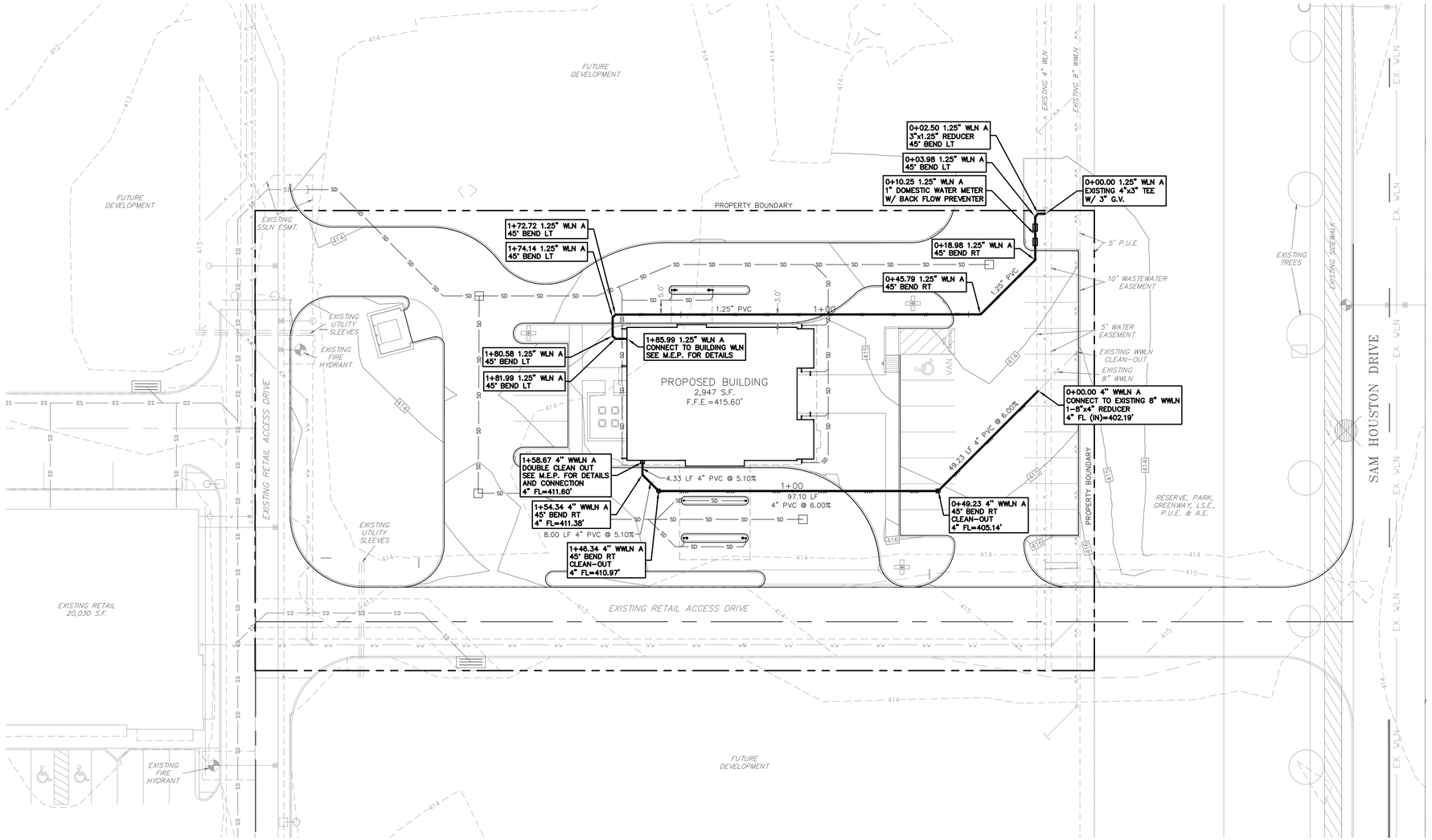
STATE OF TEXAS
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LICENSED PROFESSIONAL ENGINEER
CARLSON, BRIGANCE & DOERING, INC.
09/10/2026 ID# F3791

DRAWING TITLE
SITE PLAN

DRAWN BY	CP
CHECKED BY	JAE
APPROVED BY	JAE

SHEET NO.
C-7

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LEGEND

- W — WATER LINE
- WW — WASTEWATER LINE
- SD — STORM SEWER LINE
- EASEMENTS
- 495 — EXISTING MAJOR CONTOUR
- 494 — EXISTING MINOR CONTOUR
- 495 — PROPOSED MAJOR CONTOUR
- 494 — PROPOSED MINOR CONTOUR

0 20' 40'

SCALE: 1" = 20'

CALL BEFORE YOU DIG — TEXAS ONE CALL SYSTEM — 1-800-245-4545

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24 HOURS PRIOR TO COMMENCING CONSTRUCTION.

NOTES:

1. ALL STREETS ARE TO BUILT TO SUBGRADE PRIOR TO UTILITY INSTALLATION.
2. ALL WASTEWATER PIPE SHALL BE SDR-26 PVC WW PIPE UNLESS NOTED OTHERWISE.
3. MANDREL TESTING WILL BE REQUIRED ON ALL FLEXIBLE WASTEWATER PIPE AS PER TEXAS COMISSION ON ENVIRONMENTAL QUALITY RULES.

WATER NOTES:

1. WATER PIPE 4" & LARGER SHALL BE C900-DR14 PVC, WATER PIPE 3" & SMALLER SHALL BE SCHEDULE 40 W/ MIN. 150 PSI PRESSURE RATING.
2. ALL DOMESTIC WATER PIPE SHALL BE PVCI WITH CASKETED FITTINGS OR BETTER. GLUED JOINTS ARE NOT ALLOWED. PIPE SHALL BE STAMPED WITH NSF OR AWWA
3. ALL WATER/WASTEWATER CROSSINGS MUST BE SEPARATED BY 2.0' MIN. AND CONFORM TO TCEQ CHAPTER 290 REGULATIONS.
4. ALL PVC WATERLINE P.I.'S BOTH HORIZONTAL AND VERTICAL, SHALL NOT EXCEED 1° ALLOWABLE JOINT DEFLECTION. ALL DUCTILE IRON WATERLINE P.I.'S BOTH HORIZONTAL AND VERTICAL, SHALL NOT EXCEED 80% OF MANUFACTURERS MAXIMUM RECOMMEND JOINT DEFLECTION.
5. ALL FILL AREAS ARE TO BE COMPACTED TO 95% PROCTOR DENSITY, PRIOR TO UTILITY INSTALLATION.
6. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL VERTICAL BENDS REQUIRED SO AS NOT TO BE IN CONFLICT WITH OTHER UTILITIES.
7. ALL PIPES TO HAVE THRUST BLOCKING PROVIDED, AS REQUIRED. (VIA MECHANICAL RESTRAINTS FOR PUBLIC INFRASTRUCTURE)
8. PIPE RADIUS BENDS LESS THAN 200' REQUIRE 13' PIPE JOINTS.
9. CONTRACTOR TO VERIFY LOCATIONS OF IRRIGATION SLEEVES WITH THE IRRIGATION INSTALLER.
10. UNDERGROUND MAINS FEEDING PRIVATE FIRE HYDRANTS MUST BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA 24 AND THE FIRE CODE BY A STATE LICENSED CONTRACTOR WITH A PLUMBING PERMIT FOR THE PROPOSED WORK. THE ENTIRE MAIN MUST BE HYDROSTATICALLY TESTED AT ONE TIME, UNLESS ISOLATION VALVES ARE PROVIDED BETWEEN TESTED SECTIONS.

WASTEWATER NOTES:

1. ALL WASTEWATER PIPE SHALL BE SDR26 PVC UNLESS NOTED OTHERWISE. ALL SERVICES TO BE AS SHOWN ON THE PLAN.
2. VERIFY LOCATION OF EXISTING UTILITIES TO BE EXTENDED PRIOR TO INSTALLATION OF ANY LINE WORK.
3. SEE WATER & WASTEWATER DETAILS FOR SERVICE DETAILS.
4. PRIVATE CONSTRUCTION OF WASTEWATER LINES SHALL CONFORM TO THE 2018 UPC SECTION 719.0.
5. CLEANOUTS SHALL BE INSTALLED AT INTERVALS NOT TO EXCEED 100-FT IN STRAIGHT RUNS, PER 2018 UPC SECT. 719.1.
6. SIZING OF PRIVATE WASTEWATER LINES SHALL COMPLY WITH 2018 UPC SECT.717.0 TABLE 717.1.
7. ALL CLEANOUTS IN DRIVE AREA TO HAVE TRAFFIC BEARING LIDS.

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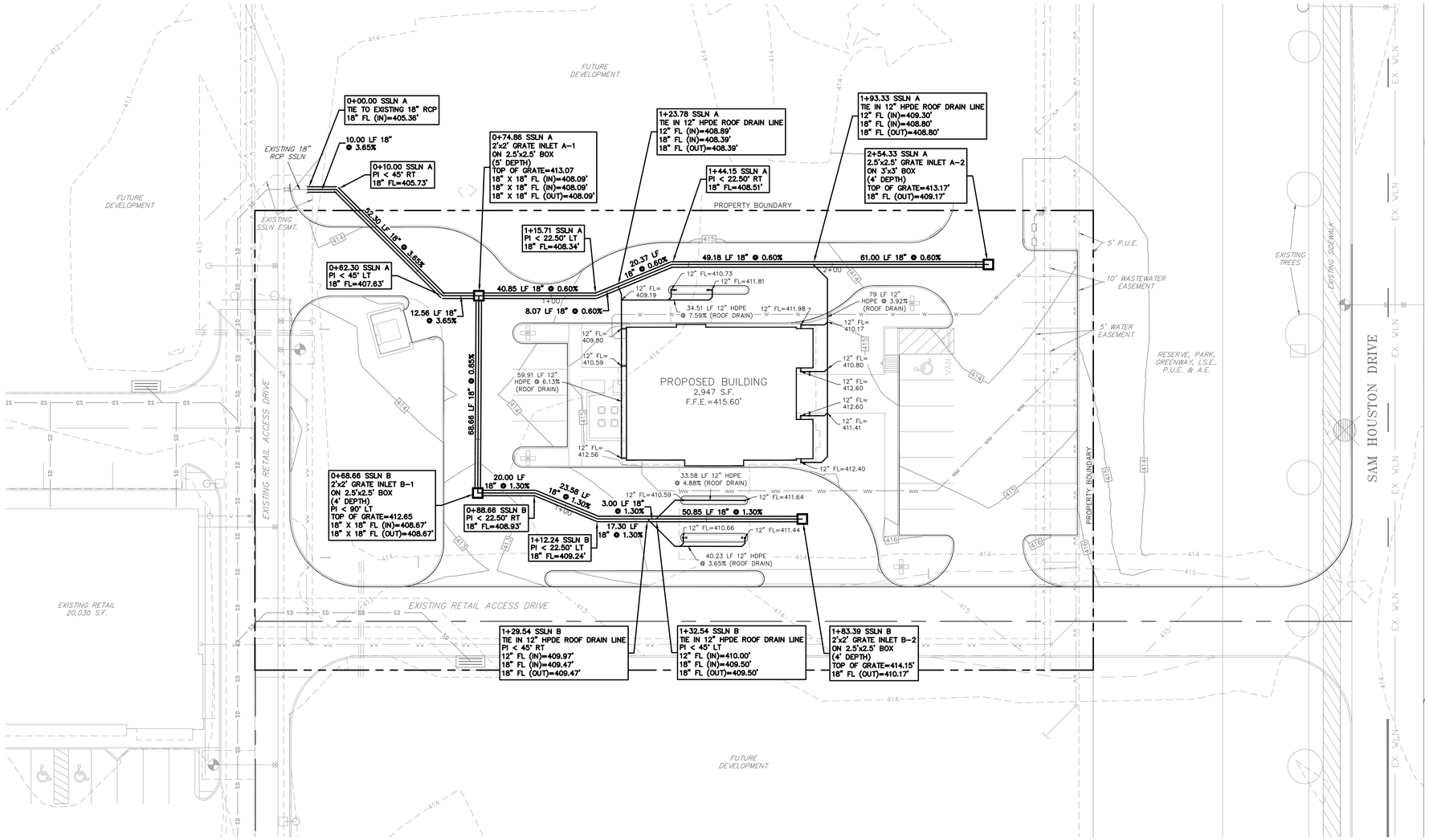
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DRAWING TITLE
UTILITIES PLAN

DRAWN BY CP	SHEET NO. C-8
CHECKED BY JAE	
APPROVED BY JAE	

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LEGEND

- STORM SEWER PIPE
- W — WATER LINE
- WW — WASTEWATER LINE
- SD — EXISTING STORM LINE
- EASEMENTS
- 495 — EXISTING MAJOR CONTOUR
- 494 — EXISTING MINOR CONTOUR
- 495 — PROPOSED MAJOR CONTOUR
- 494 — PROPOSED MINOR CONTOUR

0 20' 40'

SCALE: 1" = 20'

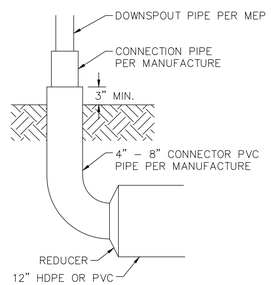
NOTE:
STORM SEWER PIPES SHALL BE HDPE OR RCP, UNLESS OTHERWISE NOTED.

CALL BEFORE YOU DIG — TEXAS ONE CALL SYSTEM — 1-800-245-4545

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR WILL AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE INCURRED BY THEIR FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, STRUCTURES OR FACILITIES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES 24 HOURS PRIOR TO COMMENCING CONSTRUCTION.

NOTES: (THESE NOTES APPLY TO THE ENTIRE DRAINAGE SYSTEM)

1. THE DESIGN INTENT OF THESE PLANS IS FOR ALL BENDS, LATERAL CONNECTIONS, REDUCTIONS, AND FITTINGS TO BE MADE WITH PRE-FABRICATED FITTINGS MANUFACTURED IN ACCORDANCE WITH ASTM C-76, CLASS 3 REQUIREMENTS. ALL DEFLECTIONS SHALL BE A MAXIMUM OF 5 DEGREES. IF THE CONTRACTOR ELECTS TO USE ALTERNATE CONNECTION METHODS THEN A SUBMITTAL SHALL BE APPROVED BY THE ENGINEER AND THE CITY OF BASTROP PRIOR TO COMMENCING PIPE LAYING OPERATIONS.
2. WHERE STORM DRAINAGE IS SHOWN TO BE INSTALLED ON A CURVE THE CONTRACTOR SHALL SUBMIT A LAYING SCHEDULE DEMONSTRATING ANTICIPATED JOINT SEPARATIONS USING 8' JOINTS, A COMBINATION OF 8' AND 4' JOINTS, OR LONG RADIUS PIPE TO ACHIEVE THE NECESSARY RADIUS WITHOUT EXCESSIVE JOINT SEPARATION. PROPOSED INSTALLATION METHOD SHALL BE APPROVED BY THE ENGINEER AND THE CITY OF BASTROP PRIOR TO COMMENCING PIPE LAYING OPERATIONS.



DOWNSPOUT CONNECTION DETAIL
N.T.S.

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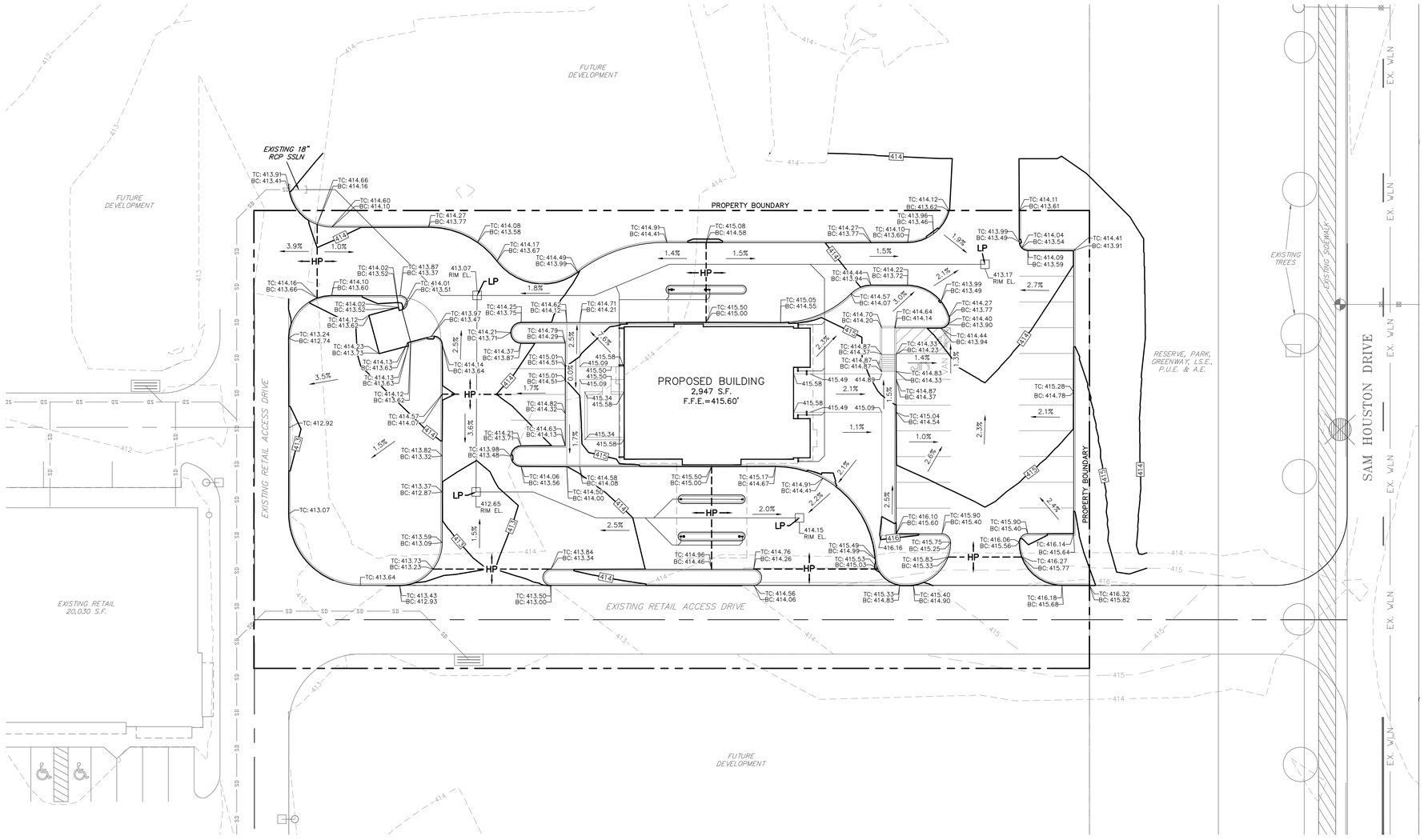
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CARLSON, BRIGANCE & DOERING, INC.
09/10/2026 @ F3791

DRAWING TITLE
STORM SEWER PLAN

DRAWN BY CP	SHEET NO.
CHECKED BY JAE	C-9
APPROVED BY JAE	

SUB-STORM.CTB
FILE PATH=J:\AC3D\5816\Dwg\SHEET SET\5816-STORM.dwg - Sep 10, 2026 - 2:10pm



LEGEND

570	EXISTING MAJOR CONTOUR
569	EXISTING MINOR CONTOUR
570	PROPOSED MAJOR CONTOUR
569	PROPOSED MINOR CONTOR
414.50	SPOT ELEVATION
TC: 414.50	TOP OF CURB ELEVATION
BC: 414.50	BOTTOM OF CURB ELEVATION
HP	HIGH POINT
LP	LOW POINT

0 20' 40'

SCALE: 1" = 20'

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PRINT DATE: September 2026

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JOANN A. EAGLE
97597
LICENSED PROFESSIONAL ENGINEER

CARLSON, BRIGANCE & DOERING, INC.
09/10/2026 ID# F3791

DRAWING TITLE
GRADING PLAN

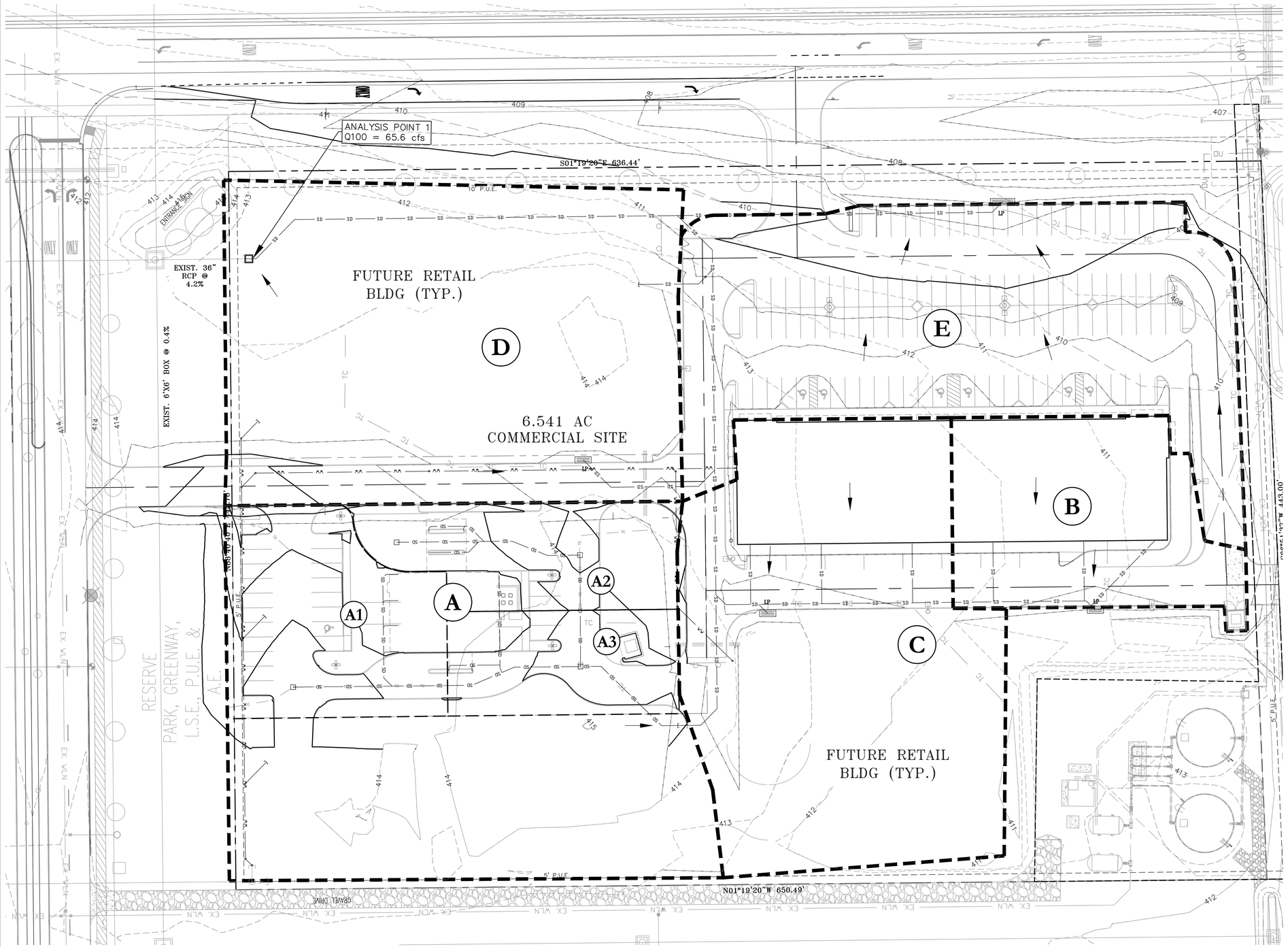
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APPROVED BY	JAE

SHEET NO.
C-10

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SUB-ENGINEERING.CTB



LEGEND

- EXISTING MINOR CONTOURS
- 305 EXISTING MAJOR CONTOURS
- PROPOSED MINOR CONTOURS
- 305 PROPOSED MAJOR CONTOURS
- DRAINAGE AREA BOUNDARY
- TC TIME OF CONCENTRATION PATH
- A1 DRAINAGE AREA NUMBER
- LP / HP HIGH POINT / LOW POINT
- FLOW ARROW

0 30' 60'

SCALE: 1" = 30'

Drainage	Area	IC	C_2	Tc	i_2	Q_2	C_{10}	i_{10}	Q_{10}	C_{25}	i_{25}	Q_{25}	C_{100}	i_{100}	Q_{100}
#	(ac)	%		(min)	(in/hr)	(cfs)		(in/hr)	(cfs)		(in/hr)	(cfs)		(in/hr)	(cfs)
A	1.53	66%	0.57	5.0	5.81	**5.0**	0.63	9.29	**9.0**	0.68	11.21	**11.62**	0.76	14.57	**16.97**
B	0.43	98%	0.74	5.0	5.81	**1.8**	0.82	9.29	**3.3**	0.87	11.21	**4.18**	0.96	14.57	**6.00**
C	1.11	80%	0.64	5.4	5.72	**4.1**	0.72	9.12	**7.3**	0.76	11.00	**9.35**	0.85	14.32	**13.53**
D	1.28	80%	0.64	5.6	5.65	**4.6**	0.71	9.01	**8.2**	0.76	10.86	**10.59**	0.85	14.15	**15.35**
E	1.10	95%	0.72	5.0	5.81	**4.6**	0.80	9.29	**8.2**	0.85	11.21	**10.48**	0.94	14.57	**15.06**

Areas	T_c	C_{25} * A	i_{25}	Q_{25}	C_{100} * A	i_{100}	Q_{100}
Combined	(min)		(in/hr)	**(cfs)**		(in/hr)	**(cfs)**
B-C	5.4	1.22	11.00	**13.5**	1.36	14.32	**19.4**
A-C	5.4	2.26	11.00	**24.9**	2.52	14.32	**36.1**
A-D	5.6	3.23	10.86	**35.1**	3.61	14.15	**51.0**
A-E	5.6	4.17	10.86	**45.3**	4.64	14.15	**65.6**

Drainage	Area	IC	C_2	Tc	i_2	Q_2	C_{10}	i_{10}	Q_{10}	C_{25}	i_{25}	Q_{25}	C_{100}	i_{100}	Q_{100}
#	(ac)	%		(min)	(in/hr)	(cfs)		(in/hr)	(cfs)		(in/hr)	(cfs)		(in/hr)	(cfs)
A1	0.36	70%	0.59	6.8	5.37	**1.1**	0.65	8.53	**2.0**	0.70	10.29	**2.60**	0.78	13.43	**3.79**
A2	0.22	81%	0.65	6.8	5.38	**0.8**	0.72	8.54	**1.3**	0.77	10.30	**1.73**	0.85	13.44	**2.51**
A3	0.21	64%	0.55	7.0	5.33	**0.6**	0.62	8.46	**1.1**	0.67	10.20	**1.43**	0.75	13.31	**2.10**

Areas	T_c	C_{25} * A	i_{25}	Q_{25}	C_{100} * A	i_{100}	Q_{100}
Combined	(min)		(in/hr)	**(cfs)**		(in/hr)	**(cfs)**
A1-A3	7.0	0.56	10.20	**5.7**	0.63	13.31	**8.3**

NOTE:

DUE TO THE PROXIMITY TO THE COLORADO RIVER THE PROPOSED FLOWS WILL BE GREATER THAN EXISTING FLOWS.

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Project Number : 5816

Carlson, Brigance & Doering, Inc.
Civil Engineering ◆ Surveying
5501 West William Cannon ◆ Austin, Texas 78749
Phone No. (512) 280-5160 ◆ Fax No. (512) 280-5165

REVISIONS

MARK	DESCRIPTION	DATE

PRINT DATE: September 2026

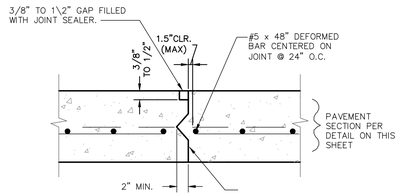
STATE OF TEXAS
JOANN A. EAGLE
97597
LICENSED
PROFESSIONAL ENGINEER
CARLSON, BRIGANCE & DOERING, INC.
09/10/2026 Reg# F3791

DRAWING TITLE
DRAINAGE PLAN

DRAWN BY CP
CHECKED BY JAE
APPROVED BY JAE

SHEET NO.
C-11

FILE PATH=J:\ACAD\5816\Dwg\SHEET SET\5816-DRAINAGE PLAN.dwg - Sep 01, 2026 - 8:59am

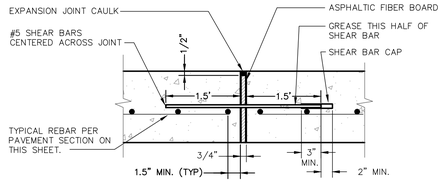


NOTES:
1.) CONTROL JOINTS SHOULD BE SPACED NO GREATER THAN 12.5 FEET FOR 5-INCH THICK CONCRETE AND NO GREATER THAN 15 FEET FOR 6-INCH THICK OR GREATER CONCRETE (OR IN ACCORDANCE WITH GEOTECHNICAL REPORT).

2.) "SCREED KEY JOINT" OR "LOAD KEY JOINT" WITH CAP STRIP AS MANUFACTURED BY DAYTON SUPERIOR OR APPROVED EQUAL. REMOVE CAP AFTER CONCRETE SETS AND FILL REMAINING GAP WITH JOINT SEALER.

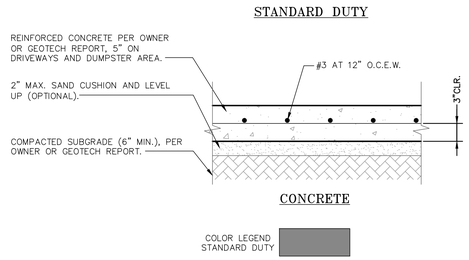
1 CONCRETE PAVEMENT CONTROL JOINT

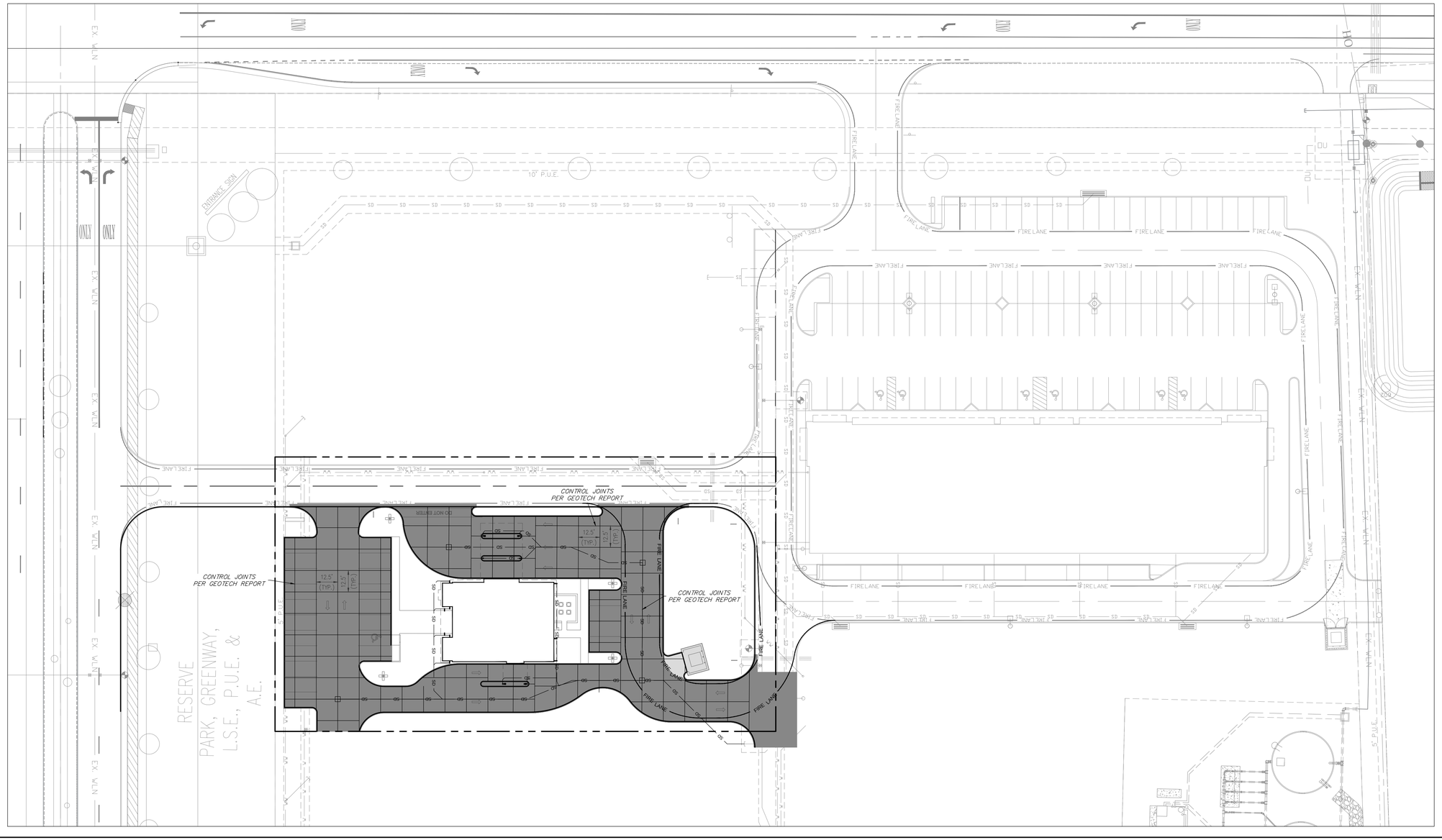
SCALE: 1" = 0.5' FOR 6" THICKNESS SHOWN



2 DOWEL– CONCRETE PAVEMENT EXPANSION JOINT DETAIL

SCALE: N.T.S.





0 30' 60'

SCALE: 1" = 30'

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5501 West William Cannon ◆ Austin, Texas 78749
Phone No. (512) 280-5160 ◆ Fax No. (512) 280-5165

REVISIONS

MARK	DESCRIPTION	DATE

PRINT DATE: September 2026

STATE OF TEXAS
JOANN A. EAGLE
97597
LICENSED PROFESSIONAL ENGINEER
CARLSON, BRIGANCE & DOERING, INC.
09/10/2026 @ F3791

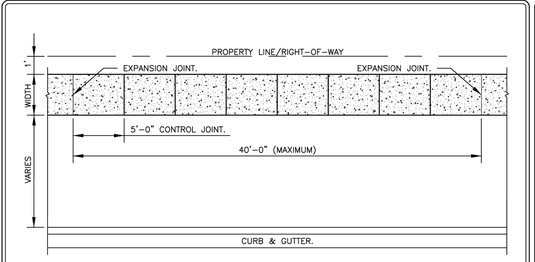
DRAWING TITLE
PAVEMENT PLAN

DRAWN BY	CP
CHECKED BY	JAE
APPROVED BY	JAE

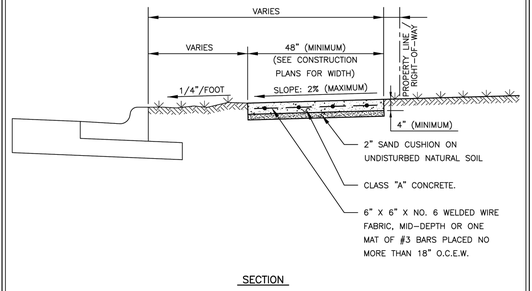
SHEET NO.
C-12

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SUB-ENGINEERING.CTB

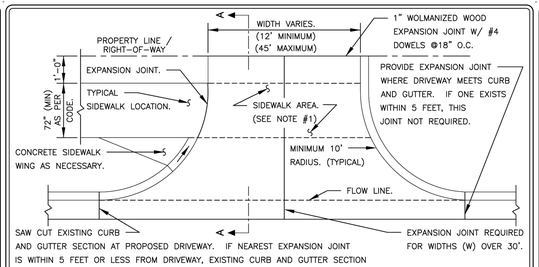


PLAN

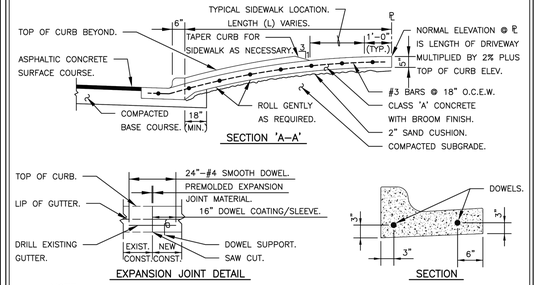


SECTION

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF BASTROP	DRAWING NO: ST-01
APPROVED MAY 24, 2011 DATE THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.	SIDEWALK DETAIL	



PLAN



SECTION 'A-A'

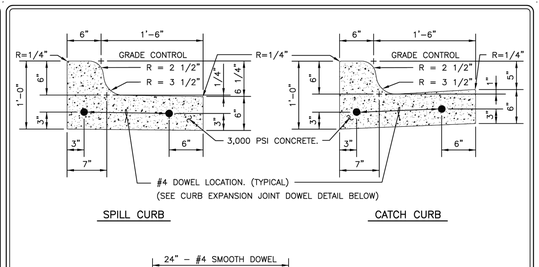
EXPANSION JOINT DETAIL

SECTION

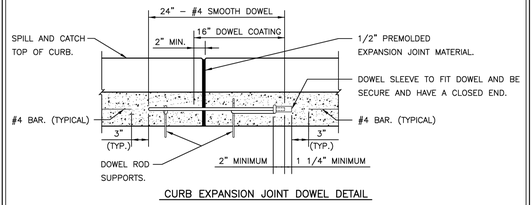
NOTE:

1. THE SIDEWALK AREA OF THE DRIVEWAY SHALL SLOPE TOWARD THE STREET PAVING AT NO MORE THAN 2%.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF BASTROP	DRAWING NO: ST-03
APPROVED MAY 24, 2011 DATE THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.	CONCRETE DRIVEWAY DETAIL (COMMERCIAL OR MULTI-FAMILY)	



SPILL CURB CATCH CURB

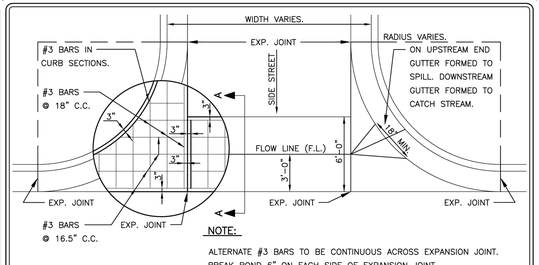


CURB EXPANSION JOINT DOWEL DETAIL

NOTES:

1. ALL WORK AND MATERIAL SHALL CONFORM TO ASTM A615, A615M, C309 AND D1752. BROOM FINISH EXPOSED SURFACE.
2. CONTROL JOINT SPACING SHALL NOT EXCEED 10'-0'.
3. EXPANSION JOINTS AS PER STANDARD ASTM D-1752.
4. EXPANSION JOINT INTERVALS NOT TO EXCEED 40'-0" FOR ALL CURBS AND CONSTRUCTION METHODS.
5. ALL CURBS SHALL HAVE A MINIMUM OF 4" OF COMPACTED FLEXIBLE BASE BETWEEN BOTTOM OF CURB AND TOP SUBGRADE THAT SHALL EXTEND A MINIMUM OF 18" BEHIND BACK OF CURB. TOTAL DEPTH OF FLEXIBLE BASE UNDER AND BEHIND CURB SHALL BE: (TOTAL DEPTH OF FLEXIBLE BASE) LESS (6-INCHES).
6. ALL CURBS SHALL CONFORM TO THESE DETAILS INDEPENDANT OF THE CONSTRUCTION METHODS USED.

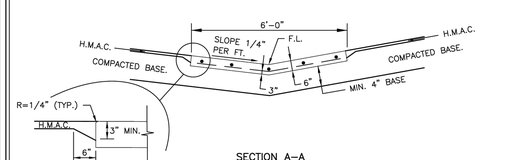
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APPROVED MAY 24, 2011 DATE THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.	SPILL AND CATCH CURB DETAIL (WITH CURB EXPANSION JOINT DOWEL DETAIL)	



NOTE:

ALTERNATE #3 BARS TO BE CONTINUOUS ACROSS EXPANSION JOINT. BREAK BOND 6" ON EACH SIDE OF EXPANSION JOINT.

PLAN

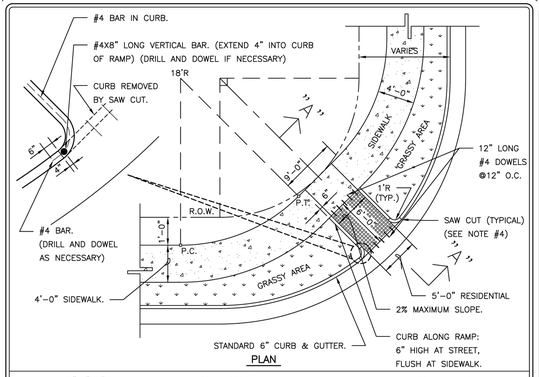


SECTION A-A

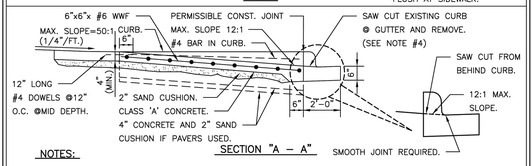
NOTES:

1. STREET DESIGNS SHALL MINIMIZE THE USE OF VALLEY GUTTERS.
2. CONCRETE SHALL BE CLASS "A".
3. MONOLITHIC CURB & GUTTER SHALL BE MEASURED BY PLAN SQUARE FEET AND PAID AS VALLEY GUTTER.
4. THE UPSTREAM CURB MID POINT MUST BE AT OR LOWER THAN THE BEGINNING P.C. AND .5% (MIN.) HIGHER THAN THE OPPOSING MID POINT.
5. ALLOWABLE CONSTRUCTION JOINT AT ℄ WHEN TRAFFIC FLOW MUST BE MAINTAINED, CONSTRUCTED AS A CONTROL JOINT. PROVIDE EXPANSION JOINT @ ℄ FOR WIDTHS GREATER THAN 40 FEET.
6. ALL EXPANSION JOINTS SHALL BE CONSTRUCTED WITH 1/2" PREMOLDED EXPANSION JOINT MATERIAL AND DOWELS AND CAPS (SEE STANDARD CURB DOWEL DETAIL ON DETAIL ST-05).

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF BASTROP	DRAWING NO: ST-06
APPROVED MAY 24, 2011 DATE THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.	CONCRETE VALLEY GUTTER DETAIL	



PLAN

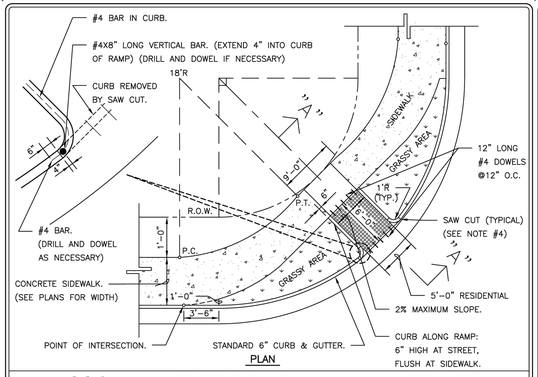


SECTION "A - A"

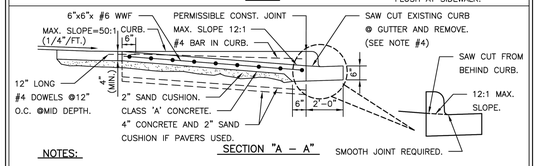
NOTES:

1. SIDEWALKS SHALL BE A MINIMUM OF 4'-0" WIDE IN RESIDENTIAL AREAS AND 6'-0" WIDE IN COMMERCIAL AREAS.
2. THE RAMP SHALL HAVE A DETECTABLE WARNING AND CONTRASTING COLORED SURFACE. THE RAMP SHALL BE STAMPED AND DYED CONCRETE OR APPROVED EQUAL.
3. THE POSITION OF THE RAMP MAY BE ALTERED IN THE FIELD BY THE DESIGN ENGINEER, BUT ONLY WITH THE APPROVAL OF THE CITY INSPECTOR.
4. SAW CUTTING IS APPLICABLE FOR INSTALLATION WHERE THE CURB LAYDOWN FOR THE RAMP IS NOT PROVIDED.
5. THE SIDEWALK PEDESTRIAN RAMP SHALL MEET ALL APPLICABLE A.D.A. REQUIREMENTS.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF BASTROP	DRAWING NO: ST-07
APPROVED MAY 24, 2011 DATE THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.	SIDEWALK PEDESTRIAN RAMP DETAIL (TYPE 1)	



PLAN

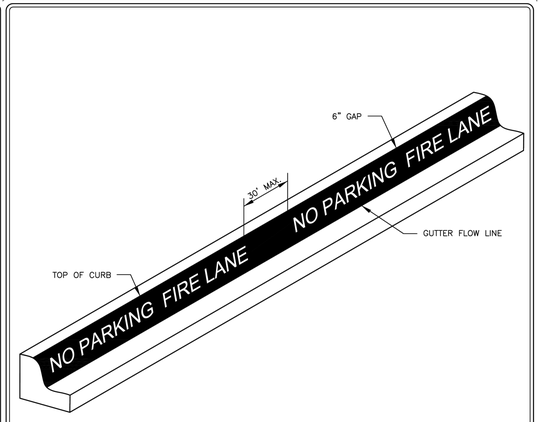


SECTION "A - A"

NOTES:

1. SIDEWALKS SHALL BE A MINIMUM OF 4'-0" WIDE IN RESIDENTIAL AREAS AND 6'-0" WIDE IN COMMERCIAL AREAS.
2. THE RAMP SHALL HAVE A DETECTABLE WARNING AND CONTRASTING COLORED SURFACE. THE RAMP SHALL BE STAMPED AND DYED CONCRETE OR APPROVED EQUAL.
3. THE POSITION OF THE RAMP MAY BE ALTERED IN THE FIELD BY THE DESIGN ENGINEER, BUT ONLY WITH THE APPROVAL OF THE CITY INSPECTOR.
4. SAW CUTTING IS APPLICABLE FOR INSTALLATION WHERE THE CURB LAYDOWN FOR THE RAMP IS NOT PROVIDED.
5. THE SIDEWALK PEDESTRIAN RAMP SHALL MEET ALL APPLICABLE A.D.A. REQUIREMENTS.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF BASTROP	DRAWING NO: ST-08
APPROVED MAY 24, 2011 DATE THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.	SIDEWALK PEDESTRIAN RAMP DETAIL (TYPE 2)	



NOTES:

FIRE LANE STRIPING TO BE 6" WIDE RED PAINT WITH "NO PARKING FIRE LANE" IN 4" TALL WHITE LETTERS. WORDING MAY NOT BE SPACED GREATER THAN 30' APART. STRIPING TO BE PAINTED ON THE FACE OF CURB WHEN PRESENT AND PAINTED FLAT ON THE PARKING SURFACE WHEN IT IS NOT.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF BASTROP	DRAWING NO: ST-13
APPROVED MAY 24, 2011 DATE THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.	FIRE LANE MARKING DETAIL	

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Civil Engineering ◆ Surveying
5501 West William Cannon ◆ Austin, Texas 78749
Phone No. (512) 280-5160 ◆ Fax No. (512) 280-5165

REVISIONS

MARK	DESCRIPTION	DATE

PRINT DATE: September 2026

STATE OF TEXAS
JOANN A. EAGLE
97597
LICENSED PROFESSIONAL ENGINEER
CARLSON, BRIGANCE & DOERING, INC.
09/10/2026 ID# F3791

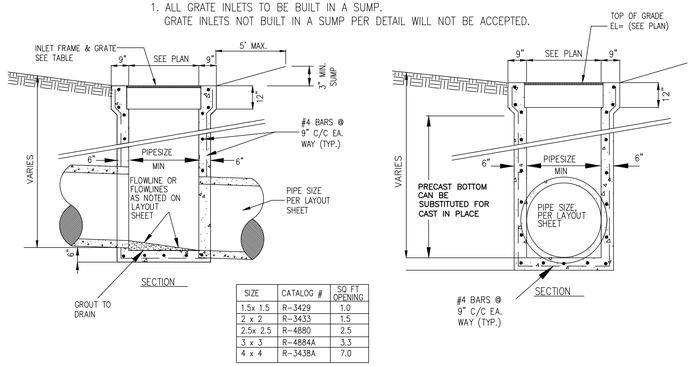
DRAWING TITLE
CONSTRUCTION DETAILS (1 OF 2)

DRAWN BY	CP	SHEET NO.
CHECKED BY	JAE	C-13
APPROVED BY	JAE	

FILE PATH=J:\AC3D\5816\Dwg\SHEET SET\5816-DETAILS.dwg - Sep 01, 2026 - 9:00am

SUB-ENGINEERING.CTB

NOTES:
1. ALL GRATE INLETS TO BE BUILT IN A SUMP.
GRATE INLETS NOT BUILT IN A SUMP PER DETAIL WILL NOT BE ACCEPTED.



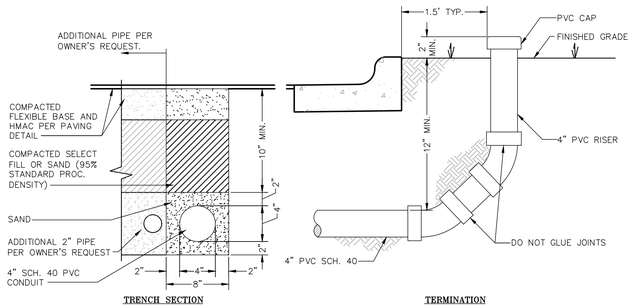
SIZE	CATALOG #	SQ FT OPENING
1.5x 1.5	R-3429	1.0
2 x 2	R-3433	1.5
2.5x 2.5	R-4880	2.5
3 x 3	R-4884A	3.3
4 x 4	R-3438A	7.0

GRATE INLET DETAIL

N.T.S.

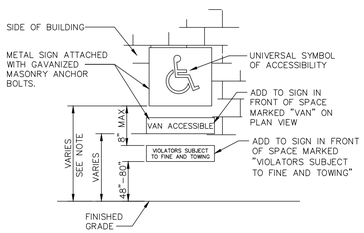
NOTES:
1.PRE-CAST GRATE INLET SUBSTITUTION ALLOWED, CONTRACTOR TO MAKE SUBMITTAL PRIOR TO ORDERING AND CHECK DEPTH REQUIREMENTS.

2. GRATES TO BE AASHTO H-20 LOADING RATED.

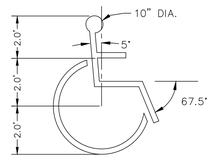


1 IRRIGATION AND/OR ELECTRICAL SLEEVES

SCALE: N.T.S.



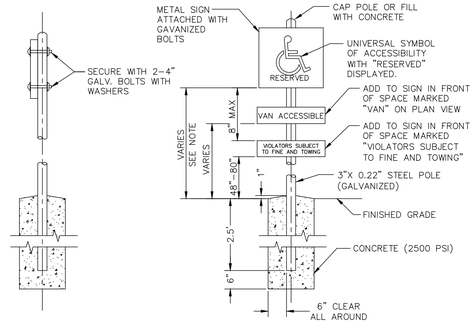
"BUILDING MOUNTED"



PROVIDE PAINTED WHEELCHAIR SYMBOL AT EACH DESIGNATED HANDICAP PARKING STALL. CENTER SYMBOL IN STALL. ALL LINES ARE 5" WIDE.

ADA PARKING SPACE SYMBOL

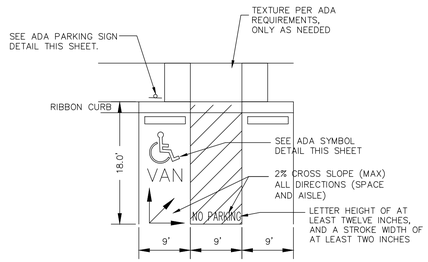
SCALE: N.T.S.



NOTE: THE HEIGHT FROM FINISHED GRADE TO EITHER THE LOWEST SYMBOL OR THE LOWEST LETTERING MUST BE A MINIMUM OF 60 INCHES. SIGN CONTENTS AND HEIGHT REQUIREMENTS ALSO APPLY TO WALL MOUNTED SIGNAGE.

ADA PARKING SIGN

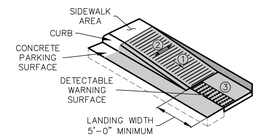
SCALE: N.T.S.



WARNING!! EXCEEDING 2 PERCENT SLOPE IN ANY DIRECTION COULD BE CAUSE FOR REJECTION OF THE SPACE AND AISLE. CONTRACTOR IS TO VERIFY SPOT ELEVATIONS PRIOR TO CONSTRUCTION AND ENSURE 2% IS NOT EXCEEDED.

ADA PARKING SPACE

SCALE: N.T.S.



1. 8.33% (12:1) MAX RAMP SLOPE
2. 2.00% MAX CROSS SLOPE
3. LANDINGS REQUIRE A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.

2 ADA RAMP DETAIL

N.T.S.

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REVISIONS

MARK	DESCRIPTION	DATE

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JOANN A. EAGLE 97597 LICENSED PROFESSIONAL ENGINEER
CARLSON, BRIGANCE & DOERING, INC.
09/10/2026 Eng F3791

DRAWING TITLE
CONSTRUCTION DETAILS (2 OF 2)

DRAWN BY	CP
CHECKED BY	JAE
APPROVED BY	JAE

SHEET NO. C-14

FILE PATH=J:\ACCD\2816\Dwg\SHEET SET\2816-DETAILS.dwg - Sep 10, 2026 - 1:45pm

SUB-ENGINEERING.CTB

MATERIAL LIST

A. SERVICE CLAMP REQUIRED.

B. 1" CORPORATION STOP – SERVICE PIPE OUTLET.

C. 1" SERVICE PIPE.

D. LOCKING ANGLE METER STOP; SERVICE PIPE INLET X SWIVEL COUPLING NUT OUTLET:
– FOR 5/8" AND 3/4" METERS: 1" X 3/4"
– FOR 1" METERS: 1" X 1"

E. PLASTIC RECTANGULAR METER BOX. (SEE TABLE BELOW)

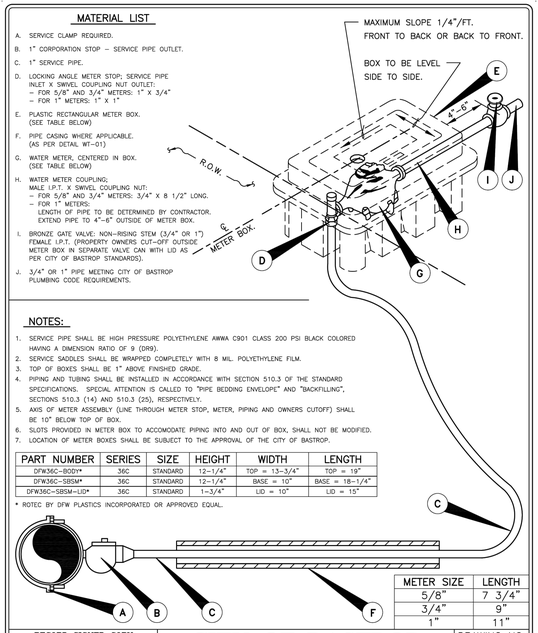
F. PIPE CASING WHERE APPLICABLE. (AS PER DETAIL WT-01)

G. WATER METER, CENTERED IN BOX. (SEE TABLE BELOW)

H. WATER METER COUPLING;
MALE I.P.T. X SWIVEL COUPLING NUT;
– FOR 5/8" AND 3/4" METERS: 3/4" X 8 1/2" LONG.
– FOR 1" METERS:
LENGTH OF PIPE TO BE DETERMINED BY CONTRACTOR. EXTEND PIPE TO 4"–6" OUTSIDE OF METER BOX.

I. BRONZE GATE VALVE; NON-RISING STEM (3/4" OR 1") FEMALE I.P.T. (PROPERTY OWNERS CUT-OFF OUTSIDE METER BOX IN SEPARATE VALVE CAN WITH LID AS PER CITY OF BASTROP STANDARDS).

J. 3/4" OR 1" PIPE MEETING CITY OF BASTROP PLUMBING CODE REQUIREMENTS.



NOTES:

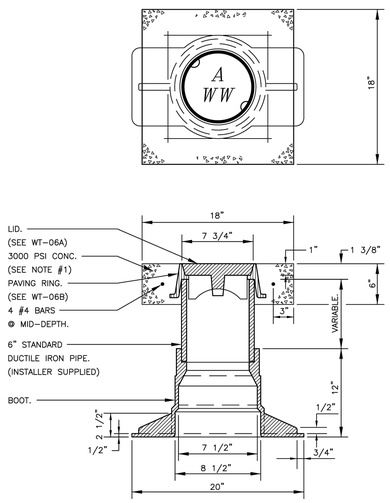
1. SERVICE PIPE SHALL BE HIGH PRESSURE POLYETHYLENE AWWA C901 CLASS 200 PSI BLACK COLORED HAVING A DIMENSION RATIO OF 9 (DR9).
2. SERVICE SADDLES SHALL BE WRAPPED COMPLETELY WITH 8 MIL. POLYETHYLENE FILM.
3. TOP OF BOXES SHALL BE 1" ABOVE FINISHED GRADE.
4. PIPING AND TUBING SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 510.3 OF THE STANDARD SPECIFICATIONS. SPECIAL ATTENTION IS CALLED TO "PIPE BEDDING ENVELOPE" AND "BACKFILLING", SECTIONS 510.3 (14) AND 510.3 (25), RESPECTIVELY.
5. AXIS OF METER ASSEMBLY (LINE THROUGH METER STOP, METER, PIPING AND OWNERS CUTOFF) SHALL BE 10" BELOW TOP OF BOX.
6. SLOTS PROVIDED IN METER BOX TO ACCOMODATE PIPING INTO AND OUT OF BOX, SHALL NOT BE MODIFIED.
7. LOCATION OF METER BOXES SHALL BE SUBJECT TO THE APPROVAL OF THE CITY OF BASTROP.

PART NUMBER	SERIES	SIZE	HEIGHT	WIDTH	LENGTH
DFW36C–BODY*	36C	STANDARD	12–1/4"	TOP = 13–3/4"	TOP = 19"
DFW36C–SBSM*	36C	STANDARD	12–1/4"	BASE = 10"	BASE = 18–1/4"
DFW36C–SBSM–LID*	36C	STANDARD	1–3/4"	LID = 10"	LID = 15"

* ROTEC BY DFW PLASTICS INCORPORATED OR APPROVED EQUAL.

METER SIZE	LENGTH
5/8"	7 3/4"
3/4"	9"
1"	11"

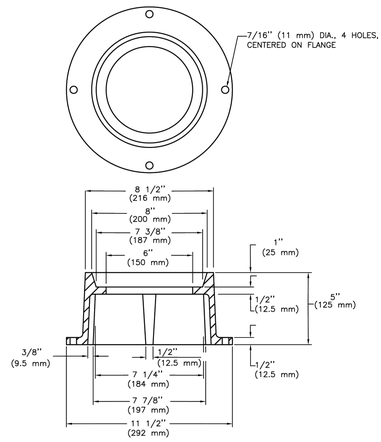
RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF BASTROP	DRAWING NO: WT–02
APPROVED MAY 24, 2011 DATE	SINGLE 5/8", 3/4" OR 1" WATER METER DETAIL	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		



NOTE:

1. DELETE CONCRETE & REBAR WHEN VALVE IS WITHIN PAVED STREET.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF BASTROP	DRAWING NO: WT–06
APPROVED MAY 24, 2011 DATE	VALVE BOX ASSEMBLY DETAIL	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		



NOTES:

1. MATERIALS SHALL BE GRAY CAST IRON, ASTM A48, GRADE 30B.
2. THE MANUFACTURER'S IDENTIFICATION & CASTING NUMBER & THE COUNTRY WHERE CAST, SHALL BE DISTINCTLY CAST ONTO EACH RING.
3. DRAFT & SHRINKAGE ALLOWANCE SHALL BE IN ACCORD WITH NORMAL FOUNDRY PRACTICE.
4. FINISH BY REMOVING FINS & FLASHING; PAINT WITH BLACK ASPHALT COATING.
5. WEIGHT: APPROXIMATELY 10.5 KG (23 LBS).

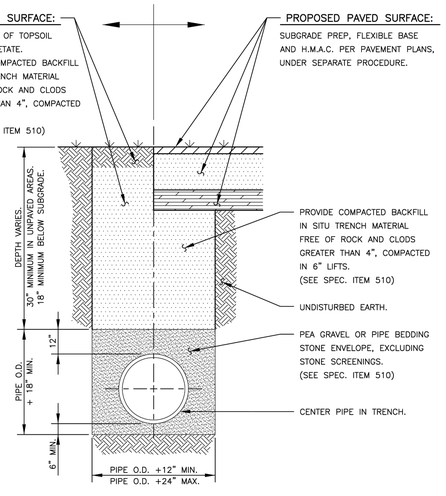
RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF BASTROP	DRAWING NO: WT–06B
APPROVED MAY 24, 2011 DATE	VALVE BOX CASTING PAVING RING	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		

NON–PAVED SURFACE:

(A) PROVIDE 4" OF TOPSOIL AND REVEGETATE.
(B) PROVIDE COMPACTED BACKFILL IN SITU TRENCH MATERIAL FREE OF ROCK AND CLODS GREATER THAN 4", COMPACTED IN 6" LIFTS. (SEE SPEC. ITEM 510)

PROPOSED PAVED SURFACE:

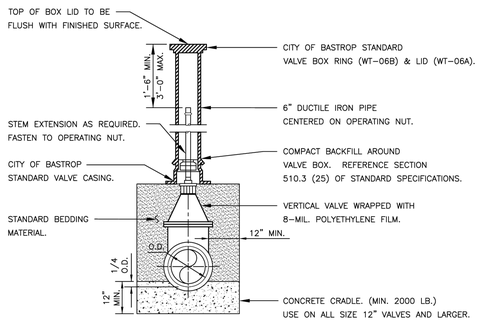
SUBGRADE PREP, FLEXIBLE BASE AND H.M.A.C. PER PAVEMENT PLANS, UNDER SEPARATE PROCEDURE.



NOTE:

ALL TRENCHING AND TRENCH SAFETY SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF BASTROP	DRAWING NO: WT–08
APPROVED MAY 24, 2011 DATE	WATERLINE BEDDING AND SURFACE REPAIR DETAIL (NON–PAVED & PROPOSED PAVED SURFACES)	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		



RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF BASTROP	DRAWING NO: WT–11
APPROVED MAY 24, 2011 DATE	VERTICAL VALVE INSTALLATION DETAIL	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		

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BASTROP, TX 78602

Project Number : 5816

Carlson, Brigance & Doering, Inc.
Civil Engineering ◆ Surveying
5501 West William Cannon ◆ Austin, Texas 78749
Phone No. (512) 280-5160 ◆ Fax No. (512) 280-5165

REVISIONS

MARK	DESCRIPTION	DATE

PRINT DATE: September 2026

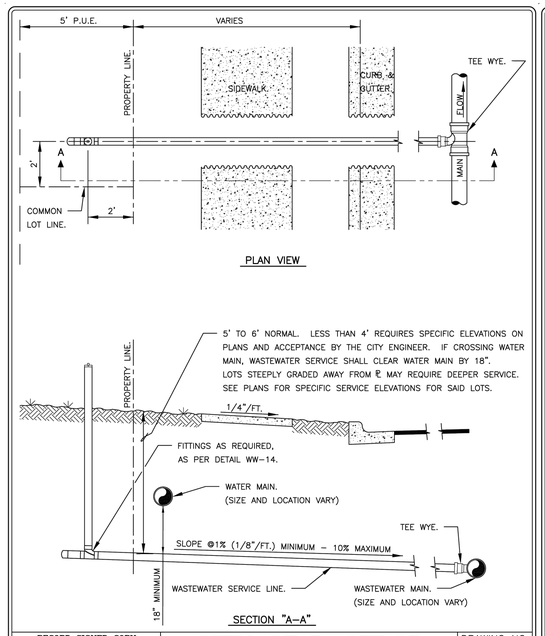
JOANN A. EAGLE
97597
LICENSED PROFESSIONAL ENGINEER
CARLSON, BRIGANCE & DOERING, INC.
09/10/2026 Eg F3791

DRAWING TITLE
WATER DETAILS

DRAWN BY	CP	SHEET NO.
CHECKED BY	JAE	C-15
APPROVED BY	JAE	

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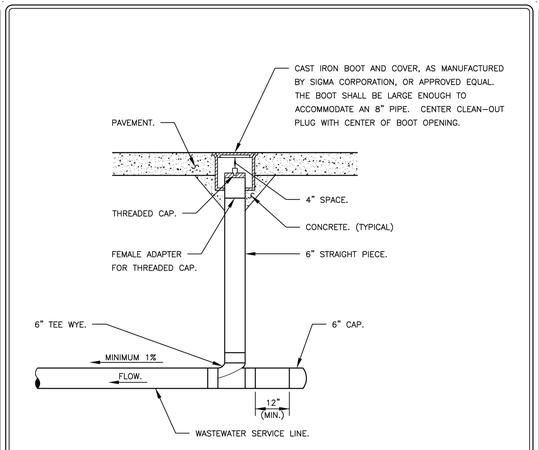
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PLAN VIEW

SECTION "A-A"

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF BASTROP	DRAWING NO: WW-12
APPROVED MAY 24, 2011 DATE	WASTEWATER SERVICE DETAIL	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		

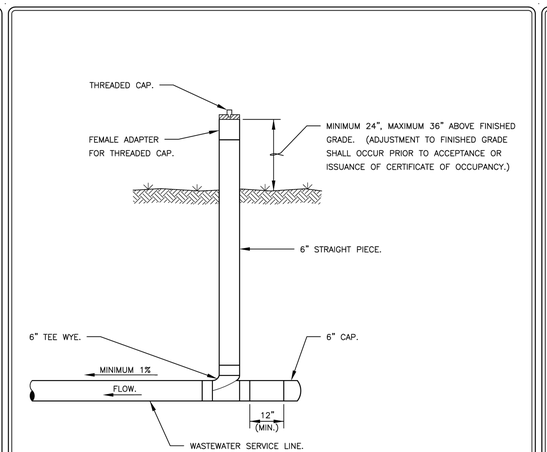


PROFILE VIEW

NOTES:

1. ALL PIPE AND FITTINGS TO BE SDR 26.
2. ALL FITTINGS SHALL BE SOLVENT WELD. CLEAR GLUE WILL NOT BE ACCEPTABLE.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF BASTROP	DRAWING NO: WW-13
APPROVED MAY 24, 2011 DATE	WASTEWATER CLEAN-OUT DETAIL (PAVED SURFACE)	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		

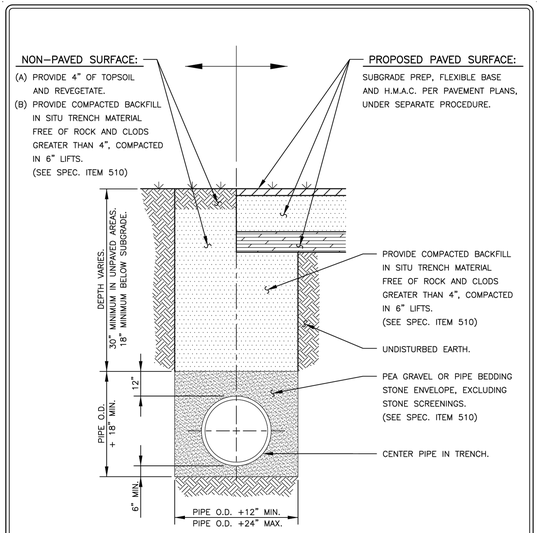


PROFILE VIEW

NOTES:

1. ALL PIPE AND FITTINGS TO BE SDR 26.
2. ALL FITTINGS SHALL BE SOLVENT WELD. CLEAR GLUE WILL NOT BE ACCEPTABLE.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF BASTROP	DRAWING NO: WW-14
APPROVED MAY 24, 2011 DATE	WASTEWATER CLEAN-OUT DETAIL (NON-PAVED SURFACE)	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		



NOTE:

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RECORD SIGNED COPY ON FILE AT PUBLIC WORKS	CITY OF BASTROP	DRAWING NO: WW-18
APPROVED MAY 24, 2011 DATE	WASTEWATER LINE BEDDING AND SURFACE REPAIR DETAIL (NON-PAVED & PROPOSED PAVED SURFACES)	
THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL.		

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Project Number : 5816

Carlson, Brigance & Doering, Inc.
Civil Engineering ◆ Surveying
3501 West William Cannon ◆ Austin, Texas 78749
Phone No. (512) 280-5160 ◆ Fax No. (512) 280-5165

REVISIONS

MARK	DESCRIPTION	DATE

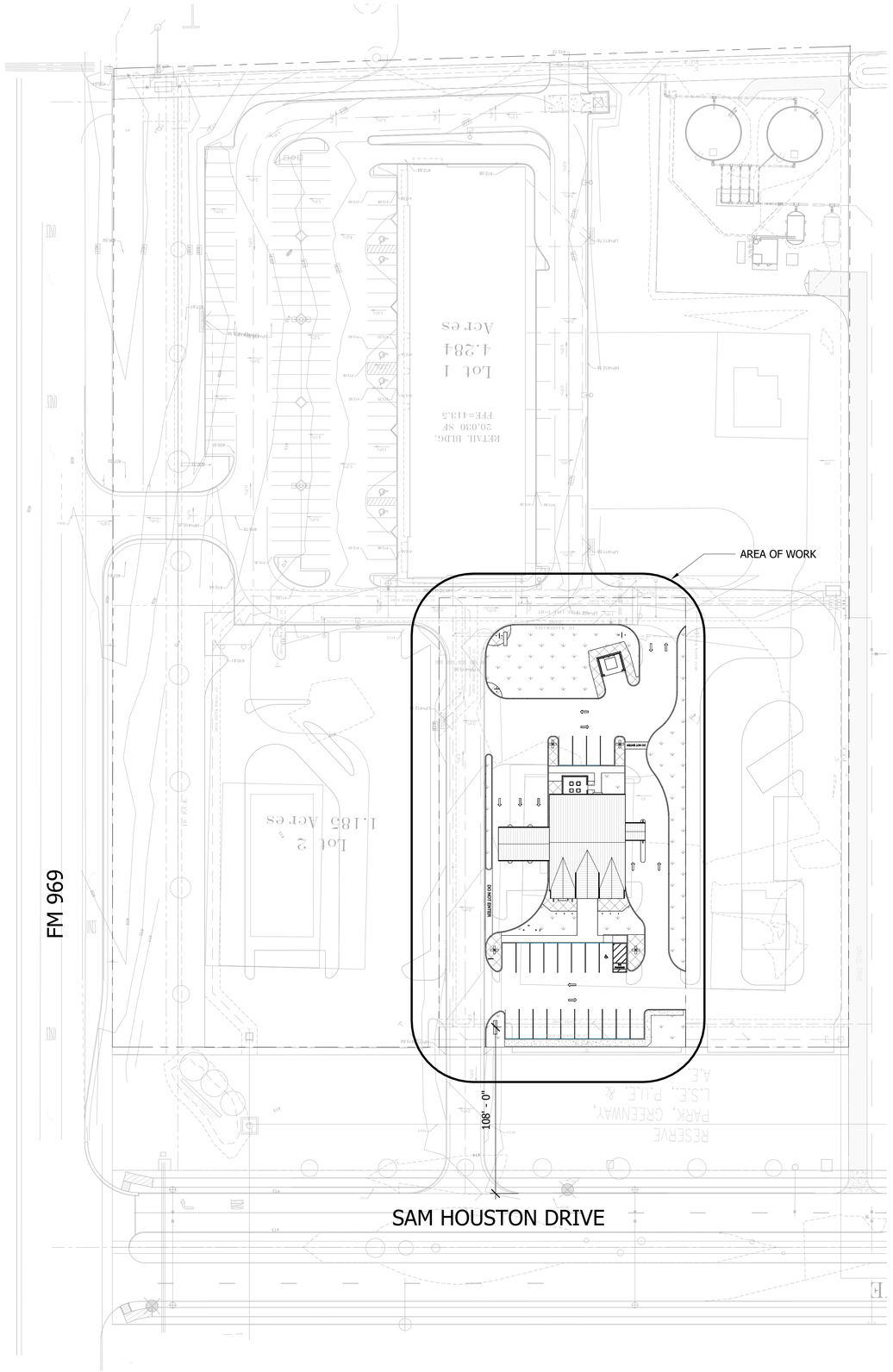
PRINT DATE: September 2026

STATE OF TEXAS
JOANN A. EAGLE
97597
LICENSED PROFESSIONAL ENGINEER
CARLSON, BRIGANCE & DOERING, INC.
09/10/2026 ID# F3791

DRAWING TITLE
WASTEWATER DETAILS

DRAWN BY	CP	SHEET NO.
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APPROVED BY	JAE	

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TRUE NORTH PLAN NORTH

1 OVERALL DEVELOPMENT
1" = 40'-0"

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Project Number : 8989

	DATE
ISSUED FOR CLIENT APPROVAL	08.17.2026
ISSUED FOR BIDDING	09.11.2026
ISSUED FOR PERMIT	09.11.2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE

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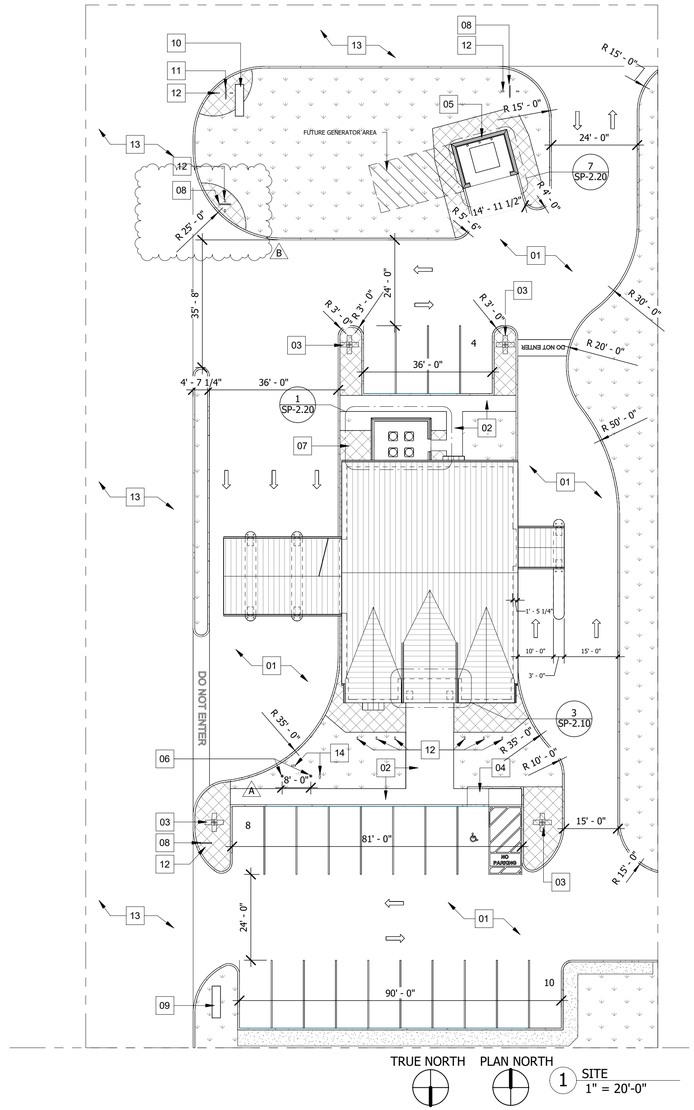
REGISTERED ARCHITECT
THOMAS B. ALEXANDER
14288
STATE OF TEXAS

09/11/26

DRAWING TITLE
OVERALL DEVELOPMENT SITE PLAN

DRAWN BY	RG	SHEET NO.
CHECKED BY	CA	SP-1.00
APPROVED BY	TB	

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GENERAL NOTES

1. ALL MECHANICAL EQUIPMENT TO SCREENED FROM VIEW PER ZONING ORDINANCE. A
2. ALL LIGHTING TO COMPLY WITH LIGHTING ORDINANCE. CITY LIGHT-POLLUTION RESTRICTIONS REQUIRE EXTERIOR LIGHTING TO BE 3000K.
3. DEVELOPMENT TO COMPLY WITH ZONING ORDINANCE.
4. ALL PAINTED PARKING STRIPING SHALL BE 4" WHITE.
5. SOIL POISON FOR WEEDS UNDER BUILDING PAD.
6. NEW SIDEWALKS ALONG xxx.
7. "FIRE LANES" SHALL BE MARKED WITH A RED PAINTED LINE AT LEAST FIVE (5) INCHES WIDE AROUND THE PERIMETER THEREOF WITH THE WORDS "FIRE LANE" AND "NO PARKING"IN WHITE LETTERS AT LEAST FOUR (4) INCHES HIGH PAINTED ON THE SURFACE. THE WORDS "FIRE LANE NO PARKING"

SITE KEYED NOTES	
NOTE NUMBER	NOTE TEXT
01	CONCRETE PAVING RE: CIVIL DWGS.
02	NEW CONCRETE SIDEWALK RE: CVIIL DWGS.
03	PROPOSED POLE LIGHT FIXTURE RE: ELECTRICAL DWGS.
04	ADA RAMP RE: CIVIL DWGS.
05	NEW DUMPSTER ENCLOSURE RE:SP-2.10
06	FLAGPOLES (2)- WINDSTORM RATED PER LOCAL BUILDING CODE
07	NEW MECHANICAL ENCLOSURE RE:SP-2.10
08	DIRECTIONAL SIGN RE:A-14.10 / A-14.11
09	MONUMENT SIGN RE:A-14.10
10	OPTION - MONUMENT SIGN RE:A-14.10
11	OPTION DIRECTIONAL SIGN RE:A-14.10 / A-14.11
12	DIRECTIONAL SIGN GROUND LIGHTING ON BOTH SIDES
13	EXISTING CONCRETE PAVING
14	FLAGPOLES (2) GROUND LIGHTING

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ISSUED FOR BIDDING	09.11.2026
ISSUED FOR PERMIT	09.11.2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE
A	ADDENDUM A	09.18.26
B	ADDENDUM B	09.25.26

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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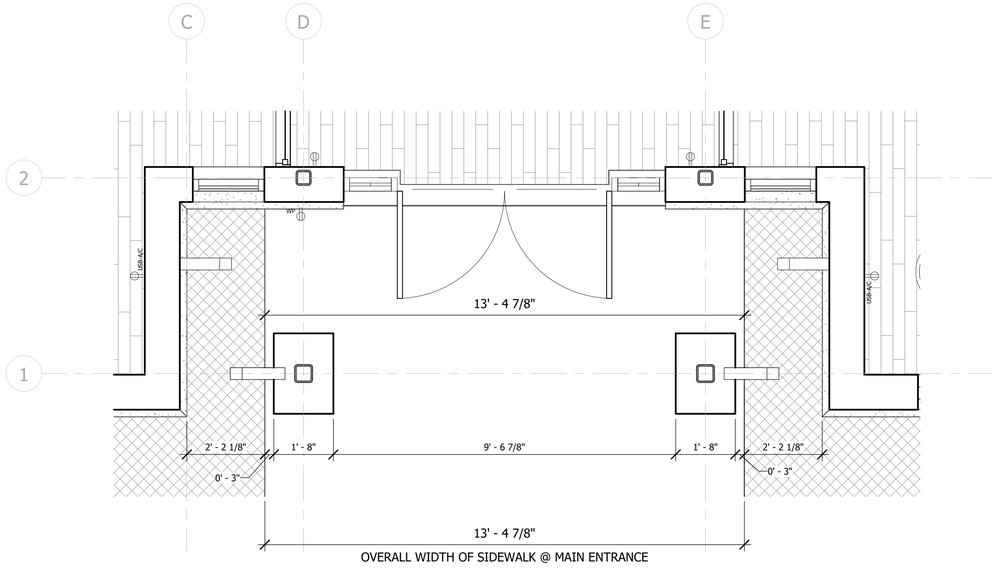
REGISTERED ARCHITECT THOMAS B. TANNER 14288 STATE OF TEXAS
09/25/26

DRAWING TITTLE
SITE PLAN

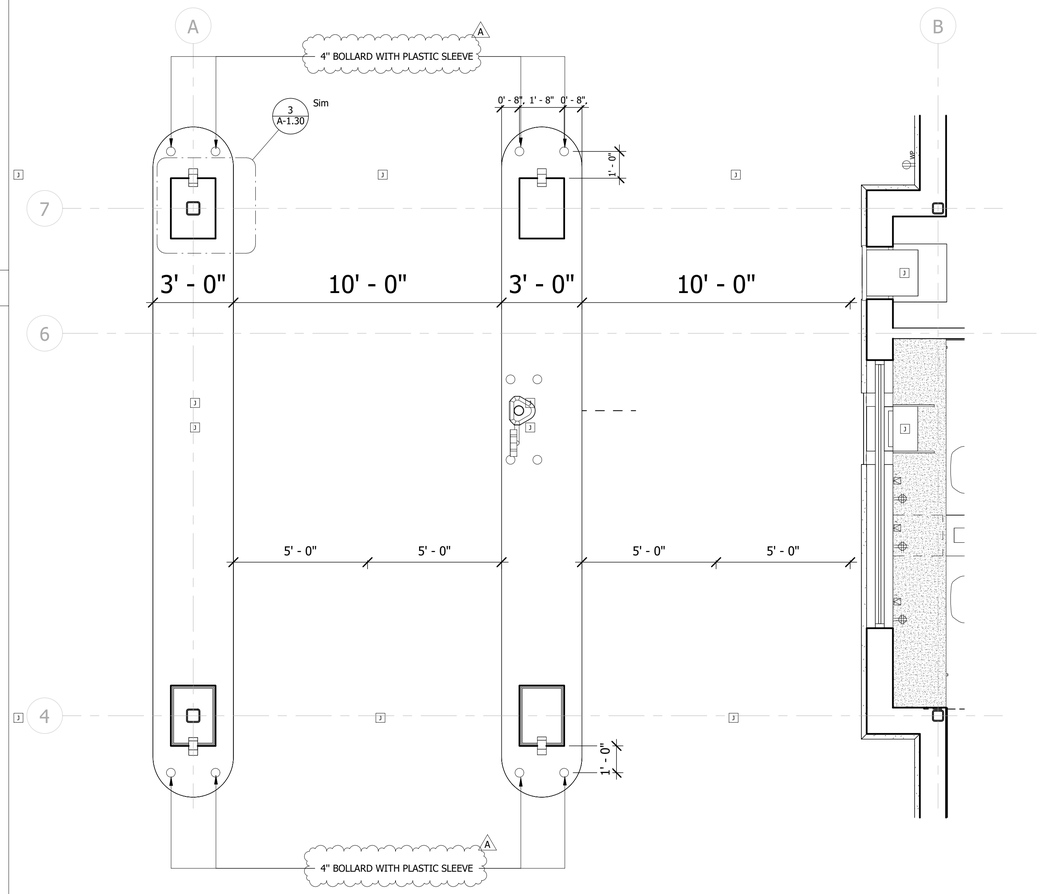
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APPROVED BY	TB

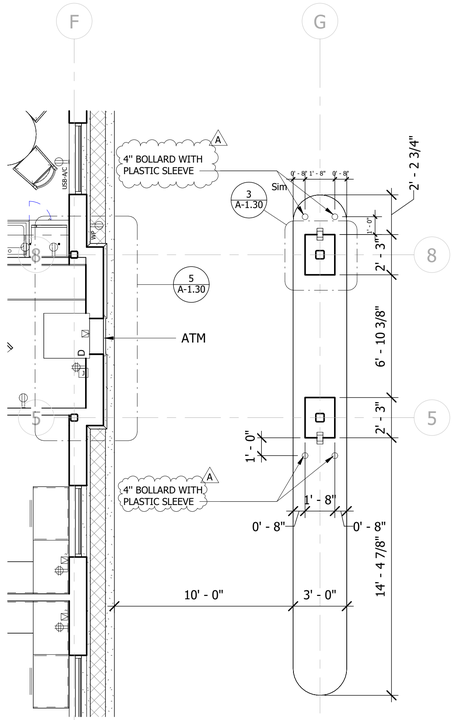
SHEET NO.
SP-1.10

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3 ENLARGED MAIN ENTRANCE
1/2" = 1'-0"





2 ATM DRIVE-THRU PLAN
1/4" = 1'-0"

1 ENLARGED DRIVE-THRU PLAN
3/8" = 1'-0"

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A	ADDENDUM A	09.18.26

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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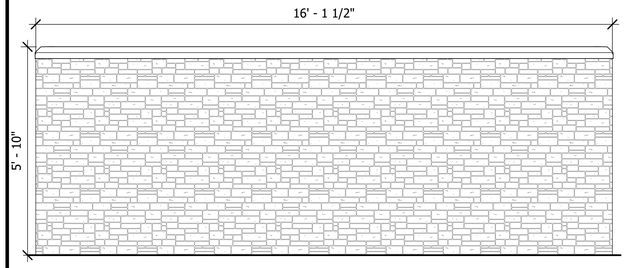
REGISTERED ARCHITECT THOMAS B. TAYLOR 14288 STATE OF TEXAS
09/18/26

DRAWING TITLE
SITE PLAN DETAILS

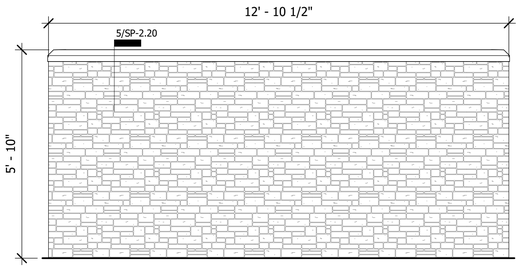
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CHECKED BY	CA
APPROVED BY	TB

SHEET NO.
SP-2.10

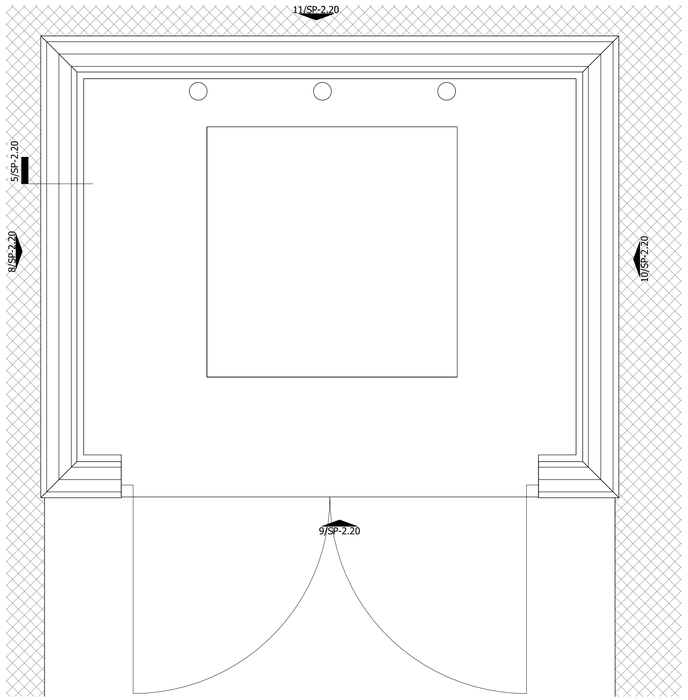
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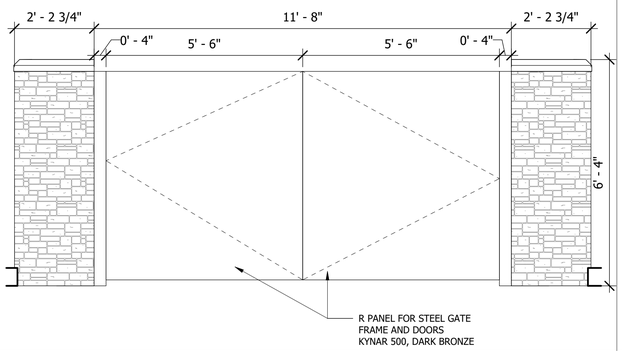
11 DUMPSTER ELEVATION-SIDE B
1/2" = 1'-0"



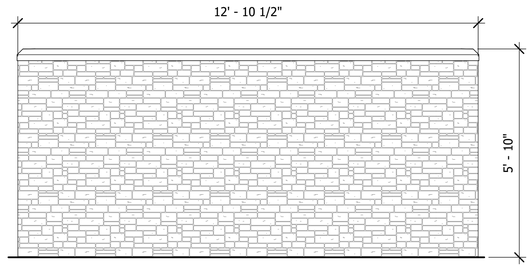
10 DUMPSTER ELEVATION-SIDE A
1/2" = 1'-0"



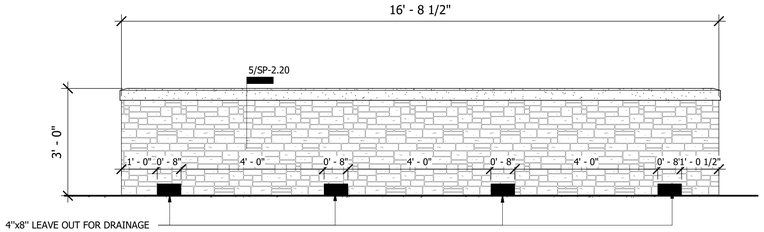
7 DUMPSTER ENCLOSURE
1/2" = 1'-0"



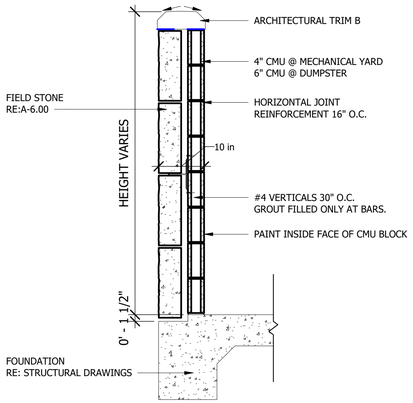
9 DUMPSTER ELEVATION-FRONT
1/2" = 1'-0"



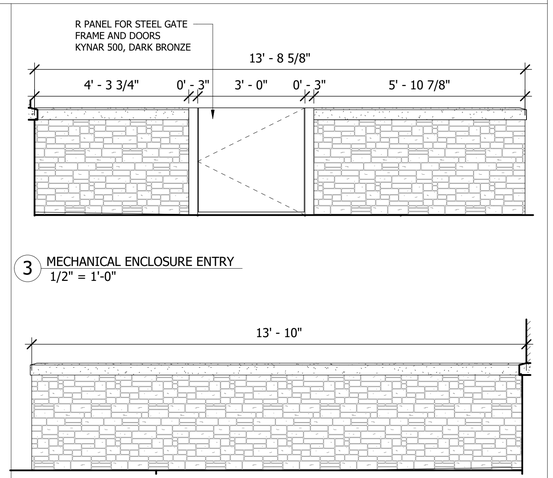
8 DUMPSTER ELEVATION-REAR
1/2" = 1'-0"



2 MECHANICAL ENCLOSURE REAR
1/2" = 1'-0"

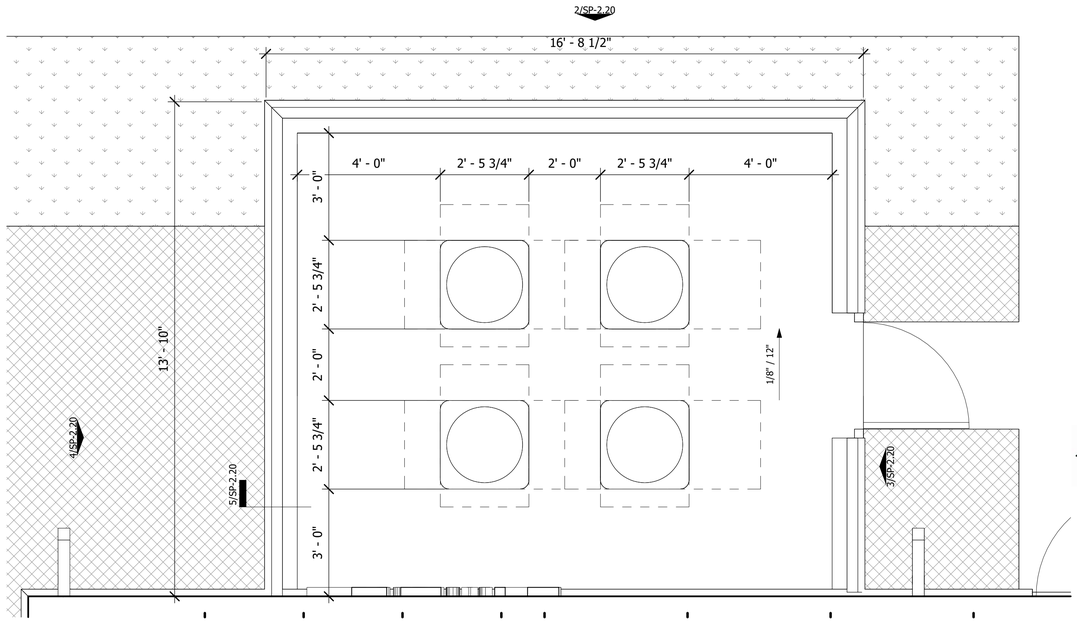


5 TYP. STONE ENCLOSURE WALL DETAIL
3/4" = 1'-0"



3 MECHANICAL ENCLOSURE ENTRY
1/2" = 1'-0"

4 MECHANICAL ENCLOSURE SIDE
1/2" = 1'-0"



1 SITE - MECHANICAL YARD
1/2" = 1'-0"

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National Bank & Trust

National Bank & Trust - Bastrop
264 FM 969 BLDG. 3
BASTROP, TX 78602

Project Number : 8989

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ISSUED FOR CLIENT APPROVAL	08.17.2026
ISSUED FOR BIDDING	09.11.2026
ISSUED FOR PERMIT	09.11.2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE

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THOMAS B. TAYLOR
14288
STATE OF TEXAS
09/11/26

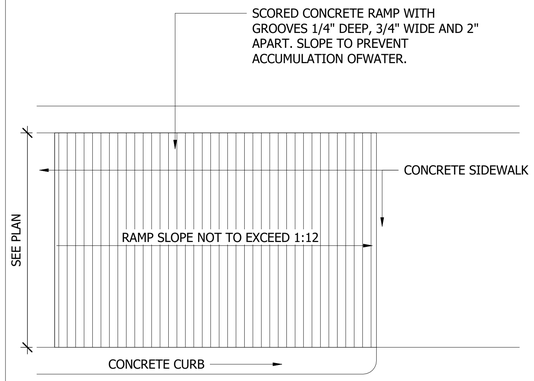
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SITE PLAN DETAILS

DRAWN BY	RG
CHECKED BY	CA
APPROVED BY	TB

SHEET NO.
SP-2.20

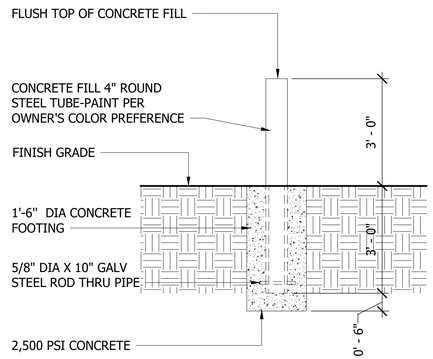
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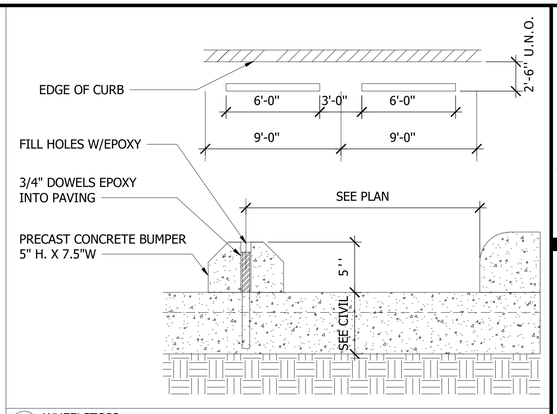


RAMP TO HAVE LIGHT REFLECTIVE VALUE AND TEXTURE TO SIGNIFICANTLY CONTRAST WITH ADJOINING PEDESTRIAN ROUTES.

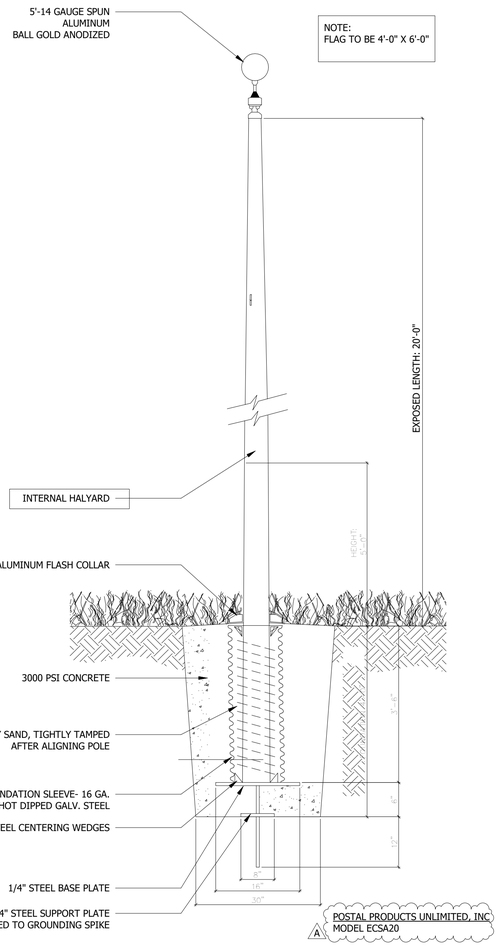
9 CURB RAMP
1/4" = 1'-0"



6 BUILDING BOLLARD DETAIL
1/2" = 1'-0"

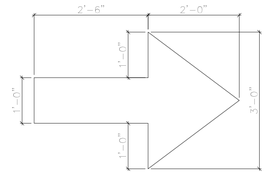


3 WHEELSTOP2
3/8" = 1'-0"



10 FLAG POLE1
1/4" = 1'-0"

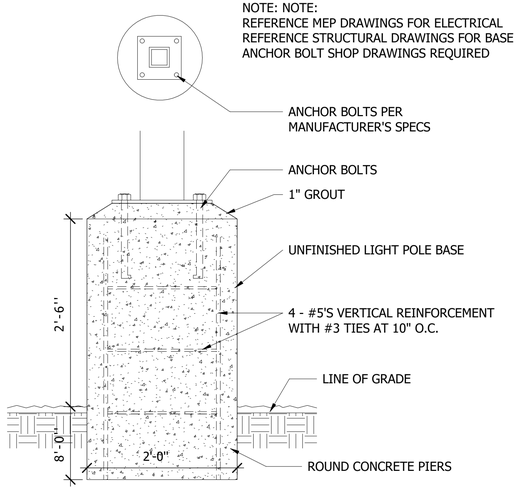
NOTES:
ALL TRAFFIC STRIPING SHALL CONSIST OF TWO (2) COATS OF 4" WIDE PAVEMENT PAINT, WHITE, TXDOT ITEM 666, TYPE II



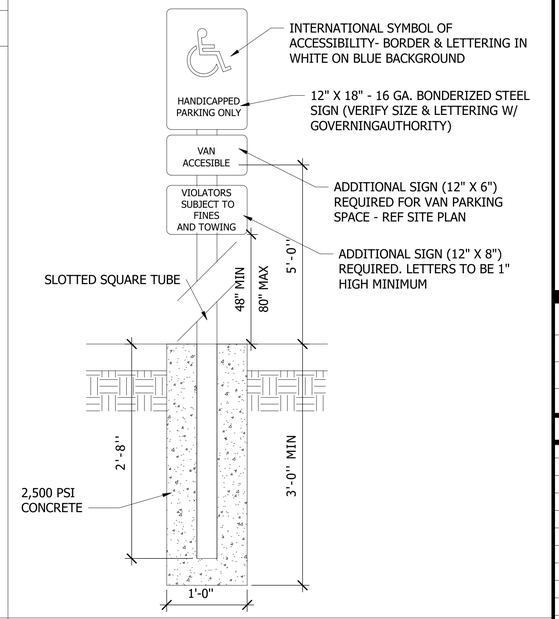
INTENTIONALLY
LEFT BLANK

8 TYPICAL PAVEMENT PAINT
3/16" = 1'-0"

NOTE: NOTE:
REFERENCE MEP DRAWINGS FOR ELECTRICAL
REFERENCE STRUCTURAL DRAWINGS FOR BASE ANCHOR BOLT SHOP DRAWINGS REQUIRED

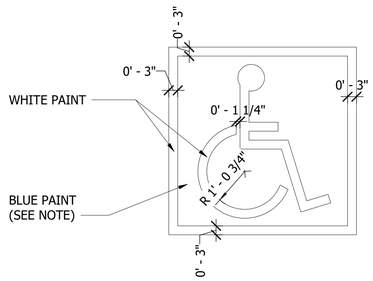


5 LIGHT POLE BASE1
3/8" = 1'-0"

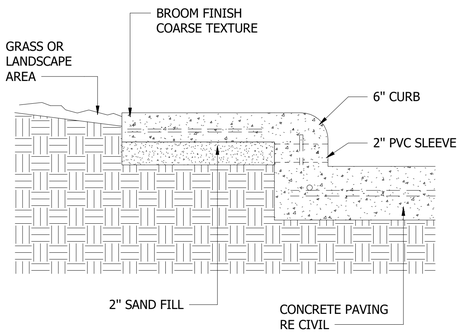


2 ACCESSIBLE PARKING SIGN1
3/16" = 1'-0"

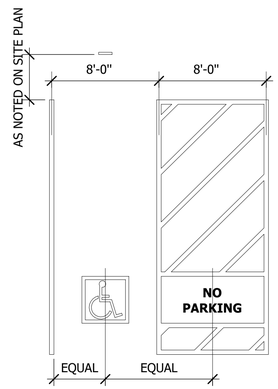
NOTE:
SYMBOL TO BE CENTERED ONWIDTH OF PARKING STALL -SYMBOLS ARE REQ'D TO CONTRAST W/ BACKGROUNDWHITE ON BLUE (COLOR NO.105090 IN FEDERAL STD. 5952)DOUBLE COAT (TYP.)



7 ACCESSIBLE PARKING STALL SIGN
1/2" = 1'-0"



4 CURB AT SIDEWALK1
1/4" = 1'-0"



NOTE:
ALL STRIPING SHALL CONSIST OF TWO (2) COATS OF 4" WIDE PAVEMENT PAINT, WHITE, TXDOT ITEM 666, TYPE II

1 PARKING STRIPING1
1/4" = 1'-0"

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ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE
A	ADDENDUM A	09.18.26

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REGISTERED ARCHITECT
TIMOTHY S. BAUMER
14288
STATE OF TEXAS
09/18/26

DRAWING TITLE
SITE PLAN DETAILS

DRAWN BY	RG
CHECKED BY	CA
APPROVED BY	TB

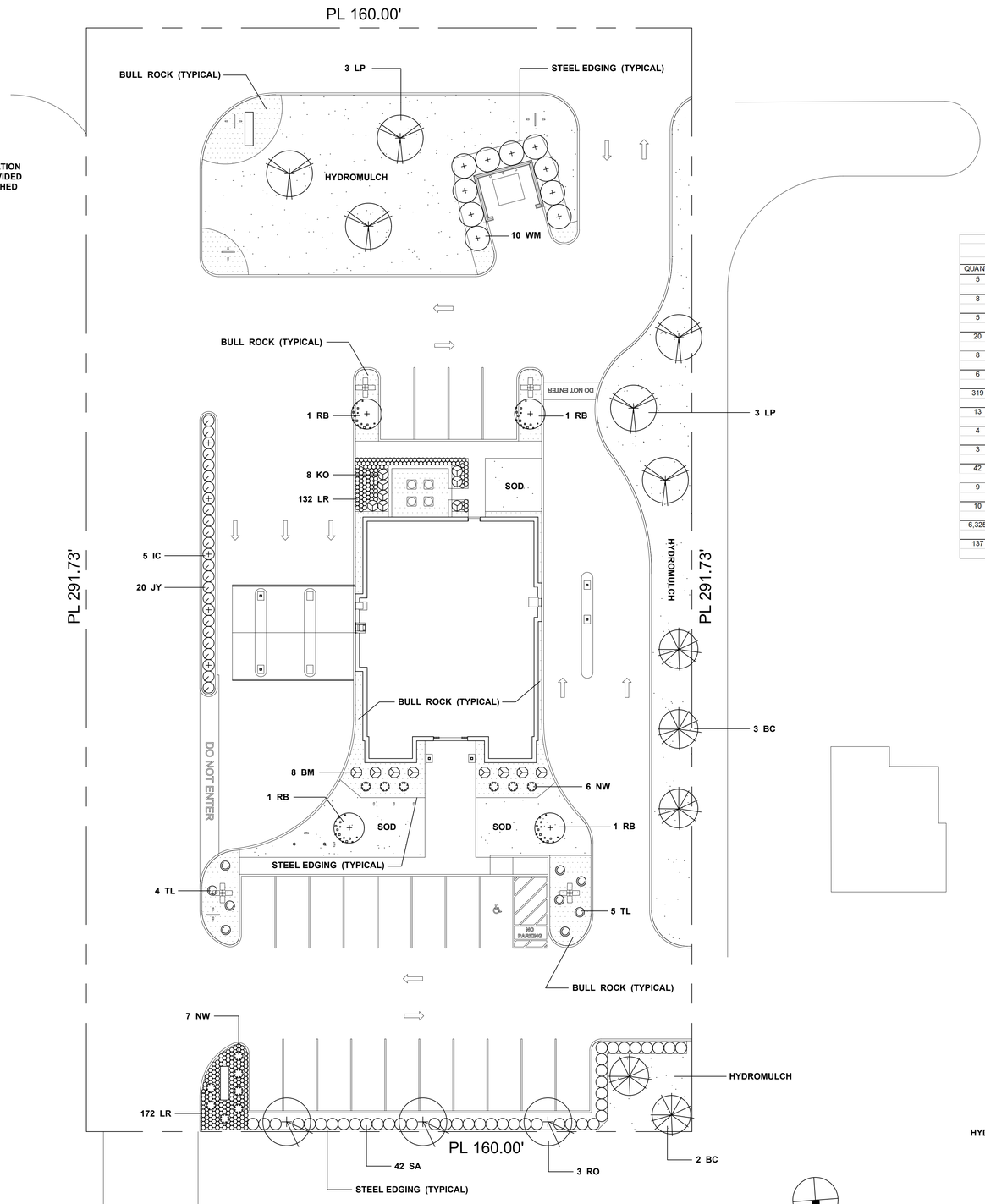
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SP-2.30

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NOTES :

1.) ALL NEW LANDSCAPE TREES AND SHRUBS TO BE IRRIGATED WITH A PROFESSIONALLY DESIGNED AND INSTALLED AUTOMATIC LANDSCAPE IRRIGATION SYSTEM WITH RAIN AND FREEZE SENSORS. SEE IRRIGATION PLAN TO BE PROVIDED AFTER SITE AND LANDSCAPE PLAN APPROVAL. (IRRIGATION OF HYDROMULCHED TURGRASS AREAS IS OPTIONAL)

2.) HYDROMULCH ALL CONSTRUCTION DISTURBED TURFGRASS AREAS.



COLOR CODE
FOR MARKING
UNDERGROUND UTILITY LINES

- ELECTRIC
- GAS-OIL-STEAM
- COMMUNICATION CATV
- WATER
- SEWER
- PROPOSED EXCAVATION

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CITY OF BASTROP - LANDSCAPE ANALYSIS FORM

A.) REQUIRED LANDSCAPE AREA

TOTAL SITE AREA		46,677 SF
REQUIRED LANDSCAPE AREA	46,677 X .20 (20%) =	9,335 SF
LANDSCAPE AREA PROVIDED		11,018 SF

B.) REQUIRED STREETSCAPE LANDSCAPE AREA

REQUIRED STREETSCAPE LANDSCAPE AREA	9,335 X .50 (50%) =	4,668 SF
STREETSCAPE LANDSCAPE AREA PROVIDED		1,337 SF

C.) STREETSCAPE TREES

SAM HOUSTON DRIVE	160.00' / 30 = 5	STREET TREES REQUIRED
	5	PROVIDED

D.) STREETSCAPE SCREEN SHRUBS

SAM HOUSTON DRIVE 42 'SILVERADO' SAGE PROVIDED (36" O.C.)

PLANT LIST

QUANT.	SYMBOL	PLANT TYPE	SIZE	NOTES
5	B C	BALD CYPRESS Taxodium distichum	65 GAL. 3" CAL. MIN.	SINGLE-TRUNK , DOUBLE-STAKED 9' - 11' HT. X 4' - 5' SPR. , MATCHING
8	B M	BAMBOO MUHLY Muhlenbergia dumosa	3 GAL.- 5 GAL.	5' O.C. , FULL , HEALTHY, MATCHING 24" HT. MINIMUM
5	I C	ITALIAN CYPRESS Cupressus sempervirens	30 GAL.	SINGLE-TRUNK , SINGLE-STAKED 9' - 11' HT. X 1' - 1'-6" SPR. , MATCHING
20	J Y	JAPANESE YEW Podocarpus macrophyllus	5 GAL.	3' O.C. , FULL, HEALTHY, MATCHING 3' - 3.5' HT. X 1' MIN. SPR.
8	K O	KNOCK-OUT SHRUB ROSE Rosa compacta 'Double Knock-Out'	3 GAL.	2' - 9" O.C. , FULL, HEALTHY, MATCHING 12" - 16" HT. X 14" - 18" SPR.
6	L P	LOBLOLLY PINE Pinus taeda	65 GAL. 3" CAL. MIN.	SINGLE-TRUNK , DOUBLE-STAKED 11' - 13' HT. X 5' - 6' SPR. , MATCHING
319	L R	LIRIOPE , BIG BLUE Liriope spicata 'Big Blue'	1 GAL.	13" O.C. , FULL, HEALTHY, MATCHING 6" - 8" HT. X 6" - 8" SPR.
13	N W	PINK SHRUB ROSE , NEARLY WILD Rosa compacta 'Nearly Wild'	3 GAL.	5' O.C. , FULL, HEALTHY, MATCHING 12" - 16" HT. X 14" - 18" SPR.
4	R B	REDBUD Cercis canadensis texensis	30 GAL.	SINGLE-TRUNK , DOUBLE-STAKED 9' - 10' HT. X 4' - 5' SPR.
3	R O	SHUMARD RED OAK Quercus shumardii	65 GAL. 3" CAL. MIN.	SINGLE-TRUNK , DOUBLE-STAKED 11' - 13' HT. X 5' - 6' SPR. , MATCHING
42	S A	SAGE , "SILVERADO" Leucophyllum frutescens 'Silverado'	3 GAL.- 5 GAL.	3' O.C. , FULL , HEALTHY, MATCHING 24" - 28" HT. X 18" - 22" SPR.
9	T L	TEXAS LANTANA Lantana urticoides	3 GAL.- 5 GAL.	FULL , HEALTHY, MATCHING 14" HT. MINIMUM
10	W M	WAX MYRTLE Myrica cerifera	15 GAL.	6'- 6" O.C. , FOLIAGE FULL TO GROUND 4.5' HT. X 3' SPR. MINIMUM
6,325	HYDRO	PRAIRIE BUFFALO GRASS Bouteloua dactyloides 'prairie'	SQ. FT.	WITH GREEN CELLULOSE FIBER AND FERTILIZER , APPLY WHERE INDICATED
137	SOD	BUFFALO GRASS Bouteloua dactyloides	SQ. YD.	SOLID SOD , ROLLED INSTALL WHERE INDICATED

LEGEND

5	BC		BALD CYPRESS
6	LP		LOBLOLLY PINE
3	RO		SHUMARD RED OAK
4	RB		TEXAS RED BUD
10	WM		WAX MYRTLE — 6.5' O.C.
5	IC		ITALIAN CYPRESS — 14.75' O.C.
8	BM		BAMBOO MUHLY — 5' O.C.
20	JY		JAPANESE YEW — 3' O.C.
8	KO		RED 'KNOCK-OUT' ROSE — 2.75' O.C.
13	NW		PINK 'NEARLY WILD' ROSE — 5' O.C.
42	SA		'SILVERADO' SAGE — 3' O.C.
9	TL		TEXAS LANTANA
319	LR		'BIG BLUE' LIRIOPE — 13" O.C.
SOD 137 sy HYDRO 6,325 sf			BUFFALO GRASS
2,085 sf			BULL ROCK

LANDSCAPE PLAN SCALE : 1" = 16' | 1

INTEGRATED LANDSCAPE ARCHITECTURE, LLC
765 LONG WOOD AVENUE
LAKEWAY, TEXAS 78734
E-MAIL : INFO@LANDARCHTX.COM
PHONE : 713-973-7851

CERTIFICATION AND SEAL

I HEREBY CERTIFY THAT THIS PLAN AND SPECIFICATION WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THESTATE OF TEXAS AS SIGNIFIED BY MY HAND AND SEAL.

DUANE F. BUNGO TX REG: 1375
EXP: 10/31/2026

9/04/26
STATE OF TEXAS
DUANE BUNGO
1375
REGISTERED LANDSCAPE ARCHITECT

ISSUES AND REVISIONS

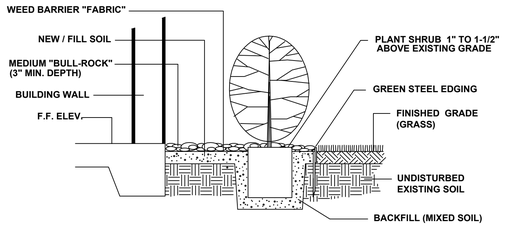
NO.	DATE	DESCRIPTION
1	08/05/26	ISSUE FOR REVIEW
2	08/20/26	ISSUE FOR REVIEW
3	09/04/26	ISSUE FOR PERMIT & BID

NATIONAL BANK & TRUST
SAM HOUSTON DRIVE, BASTROP , TEXAS

Landscape Plan

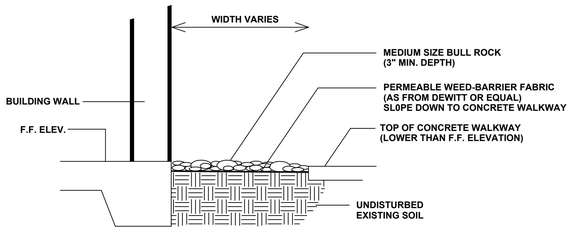
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L1



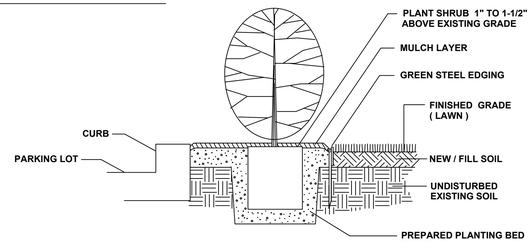
A RIVER ROCK / PLANTING DETAIL

(NO SCALE)



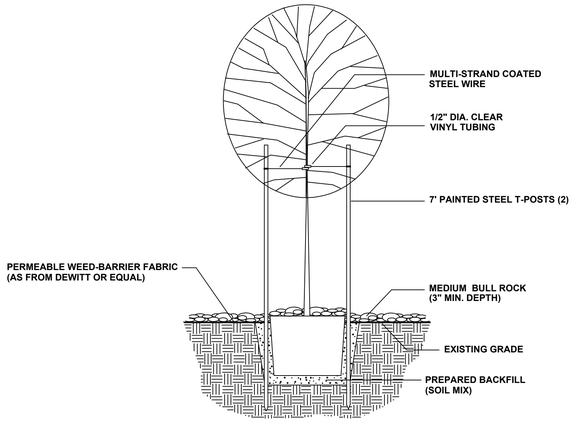
B BULL ROCK AT BUILDING WALL DETAIL

(NO SCALE)



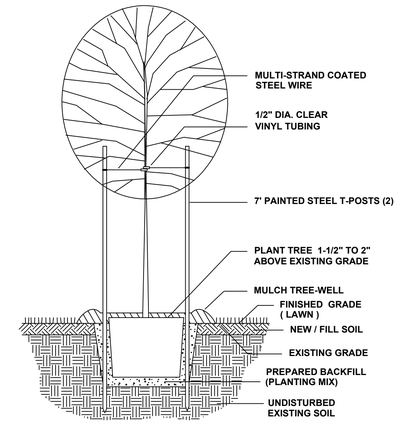
C SHRUB HEDGE PLANTING DETAIL

(NO SCALE)



D CONTAINER TREE IN BULL ROCK PLANTING DETAIL

(NO SCALE)



E CONTAINER TREE PLANTING DETAIL

(NO SCALE)

NOTES :

1.) **ALL NEW LANDSCAPE TREES AND SHRUBS TO BE IRRIGATED WITH A PROFESSIONALLY DESIGNED AND INSTALLED AUTOMATIC LANDSCAPE IRRIGATION SYSTEM WITH RAIN AND FREEZE SENSORS. SEE IRRIGATION PLAN TO BE PROVIDED AFTER SITE AND LANDSCAPE PLAN APPROVAL. (IRRIGATION OF HYDROMULCHED TURGRASS AREAS IS OPTIONAL)**

2.) **HYDROMULCH ALL CONSTRUCTION DISTURBED TURFGRASS AREAS.**

LANDSCAPE CONSTRUCTION SPECIFICATIONS :

1.) **General Contractor to bring all areas to final grade with a boxblade using a good quality, gradable topsoil.**

2.) **Prepare all new planting beds by removing all rocks, concrete and construction debris and till in 3" to 4" of new Soil Mix and pre-emergant herbicide (such as Pennant or Eptam) at the recommended rates, then rake all bed areas smooth prior to planting.**

3.) **Grade all planting beds to edges of beds and away from buildings prior to planting for positive drainage away from foundation. Install green Ryerson Steel landscape edging (1/8" thick x 4" tall) between turf and planting beds. Cut exposed corners at 45 degrees when steel butts up against curbs or walkways for pedestrian safety.**

4.) **Fertilize all new trees, shrubs and groundcovers with Osmocote (or equal) time-release fertilizer.**

5.) **Mulch all new palms and trees with a 3" (avg.) layer of shredded hardwood topdress mulch. Apply locally sourced River Rock (2" to 5" aggregate size) on DeWitt type permeable weed barrier "fabric" in areas indicated in lieu of mulch to a minimum depth of 3".**

6.) **Double-Stake all specified trees (see plant list) with 2 (7' tall painted metal T-Posts, multi-strand coated steel wire and clear vinyl tubing.**

7.) **Root-Stimulate all new trees with Superthrive brand root-stimulator (or equal) as per manufacturers recommendations .**

8.) **Plant sizes shown are the minimum acceptable. Plants will be inspected and measured for conformance. Plants specified with container size only shall be of or better than locally accepted nursery standards. Obviously undersized, misshapen, weak or inadequately rooted plants will be rejected. The Owner's decision will be final in matters concerning plant size, condition and health. Plants larger in size than specified may be used if approved by the Landscape Architect or the Owner, but the use of larger plants will not automatically increase the contract amount.**

9.) **Thoroughly hand water all new plantings immediately after planting.**

10.) **Fine grade all new turf areas (by hand if necessary) prior to installation of grass. This is for a nice smooth turf-bed as well as for normal drainage purposes.**

11.) **Solid sod within property to be 99 percent pure Common Bermudagrass. Sod to be rolled immediately after wetting and installation. Hydromulch to be Common Bermudagrass hydromulch at a rate of 2 lbs. hulled seed per 1000 s.f. and includes green cellulose fiber and fertilizer.**

12.) **Landscape contractor is responsible for keeping jobsite neat, clean and safe at all times in reference to their landscape work. Excess excavated soil accumulations of landscape related trash, plant containers etc. to be removed from jobsite by Landscape Contractor daily and at the end of the project.**

13.) **The Owner, Landscape Architect and general Contractor reserve the right to inspect the progress of the project and any or all of the materials and procedures used at any time. Such materials and procedures will be subject to approval or rejection at that time and promptly followed up in writing to all concerned parties.**

WATERING INSTRUCTIONS :

1.) Water well (soak) every day for the first week.
2.) Water well (soak) every other day for the second week.
3.) Water well (soak) every third day for the third week.
4.) Continue watering at least 3 times a week if weater is very warm or if it has not rained recently. Look for drooping leaves as a sign of "thirsty" plants.
5.) Rainy weather may provide the opportunity to defer watering.

PLANT LIST

QUANT.	SYMBOL	PLANT TYPE	SIZE	NOTES
5	B C	BALD CYPRESS Taxodium distichum	65 GAL. 3" CAL. MIN.	SINGLE-TRUNK , DOUBLE-STAKED 9' - 11' HT. X 4' - 5' SPR. , MATCHING
8	B M	BAMBOO MUHLY Muhlenbergia dumosa	3 GAL.- 5 GAL.	5' O.C. , FULL , HEALTHY, MATCHING 24" HT. MINIMUM
5	I C	ITALIAN CYPRESS Cupressus sempervirens	30 GAL.	SINGLE-TRUNK , SINGLE-STAKED 9' - 11' HT. X 1' - 1'-6" SPR. , MATCHING
20	J Y	JAPANESE YEW Podocarpus macrophyllus	5 GAL.	3' O.C. , FULL, HEALTHY, MATCHING 3' - 3.5' HT. X 1' MIN. SPR.
8	K O	KNOCK-OUT SHRUB ROSE Rosa compacta 'Double Knock-Out'	3 GAL.	2' - 9" O.C. , FULL, HEALTHY, MATCHING 12" - 16" HT. X 14" - 18" SPR.
6	L P	LOBLOLLY PINE Pinus taeda	65 GAL. 3" CAL. MIN.	SINGLE-TRUNK , DOUBLE-STAKED 11' - 13' HT. X 5' - 6' SPR. , MATCHING
319	L R	LIRIOPE , BIG BLUE Liriope spicata 'Big Blue'	1 GAL.	13" O.C. , FULL, HEALTHY, MATCHING 6" - 8" HT. X 6" - 8" SPR.
13	N W	PINK SHRUB ROSE , NEARLY WILD Rosa compacta 'Nearly Wild'	3 GAL.	5' O.C. , FULL, HEALTHY, MATCHING 12" - 16" HT. X 14" - 18" SPR.
4	R B	REDBUD Cercis canadensis texensis	30 GAL.	SINGLE-TRUNK , DOUBLE-STAKED 9' - 10' HT. X 4' - 6' SPR.
3	R O	SHUMARD RED OAK Quercus shumardii	65 GAL. 3" CAL. MIN.	SINGLE-TRUNK DOUBLE-STAKED 11' - 13' HT. X 5' - 6' SPR. , MATCHING
42	S A	SAGE , "SILVERADO" Leucophyllum frutescens 'Silverado'	3 GAL.- 5 GAL.	3' O.C. , FULL , HEALTHY, MATCHING 24" - 28" HT. X 18" - 22" SPR.
9	T L	TEXAS LANTANA Lantana urticoides	3 GAL.- 5 GAL.	FULL , HEALTHY, MATCHING 14" HT. MINIMUM
10	W M	WAX MYRTLE Myrica cerifera	15 GAL.	6'- 6" O.C. , FOLIAGE FULL TO GROUND 4.5' HT. X 3' SPR. MINIMUM
6,325	HYDRO	PRAIRIE BUFFALO GRASS Bouteloua dactyloides 'prairie'	SQ. FT.	WITH GREEN CELLULOSE FIBER AND FERTILIZER , APPLY WHERE INDICATED
137	SOD	BUFFALO GRASS Bouteloua dactyloides	SQ. YD.	SOLID SOD , ROLLED INSTALL WHERE INDICATED

LEGEND

5	BC		BALD CYPRESS	
6	LP		LOBLOLLY PINE	
3	RO		SHUMARD RED OAK	
4	RB		TEXAS RED BUD	
10	WM		WAX MYRTLE	6.5' O.C.
5	IC		ITALIAN CYPRESS	14.75' O.C.
8	BM		BAMBOO MUHLY	5' O.C.
20	JY		JAPANESE YEW	3' O.C.
8	KO		RED 'KNOCK-OUT' ROSE	2.75' O.C.
13	NW		PINK 'NEARLY WILD' ROSE	5' O.C.
42	SA		'SILVERADO' SAGE	3' O.C.
9	TL		TEXAS LANTANA	
319	LR		'BIG BLUE' LIRIOPE	13" O.C.
SOD 137 sy HYDRO 6,325 sf			BUFFALO GRASS	
2,085 sf			BULL ROCK	

COLOR CODE
FOR MARKING UNDERGROUND UTILITY LINES

- ELECTRIC
- GAS-OIL-STEAM
- COMMUNICATION CATV
- WATER
- SEWER
- PROPOSED EXCAVATION

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LANDSCAPE DETAILS AND WRITTEN SPECIFICATIONS

(NO SCALE) | 1

INTEGRATED LANDSCAPE ARCHITECTURE, LLC
765 LONG WOOD AVENUE
LAKEWAY, TEXAS 78734
E-MAIL : INFO@LANDARCHTX.COM
PHONE : 713-973-7851

CERTIFICATION AND SEAL

I HEREBY CERTIFY THAT THIS PLAN AND SPECIFICATION WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THESTATE OF TEXAS AS SIGNIFIED BY MY HAND AND SEAL.

DUANE F. BUNGO TX REG: 1375
EXP: 10/31/2026

9/04/26

STATE OF TEXAS
DUANE BUNGO
1375
REGISTERED LANDSCAPE ARCHITECT

ISSUES AND REVISIONS

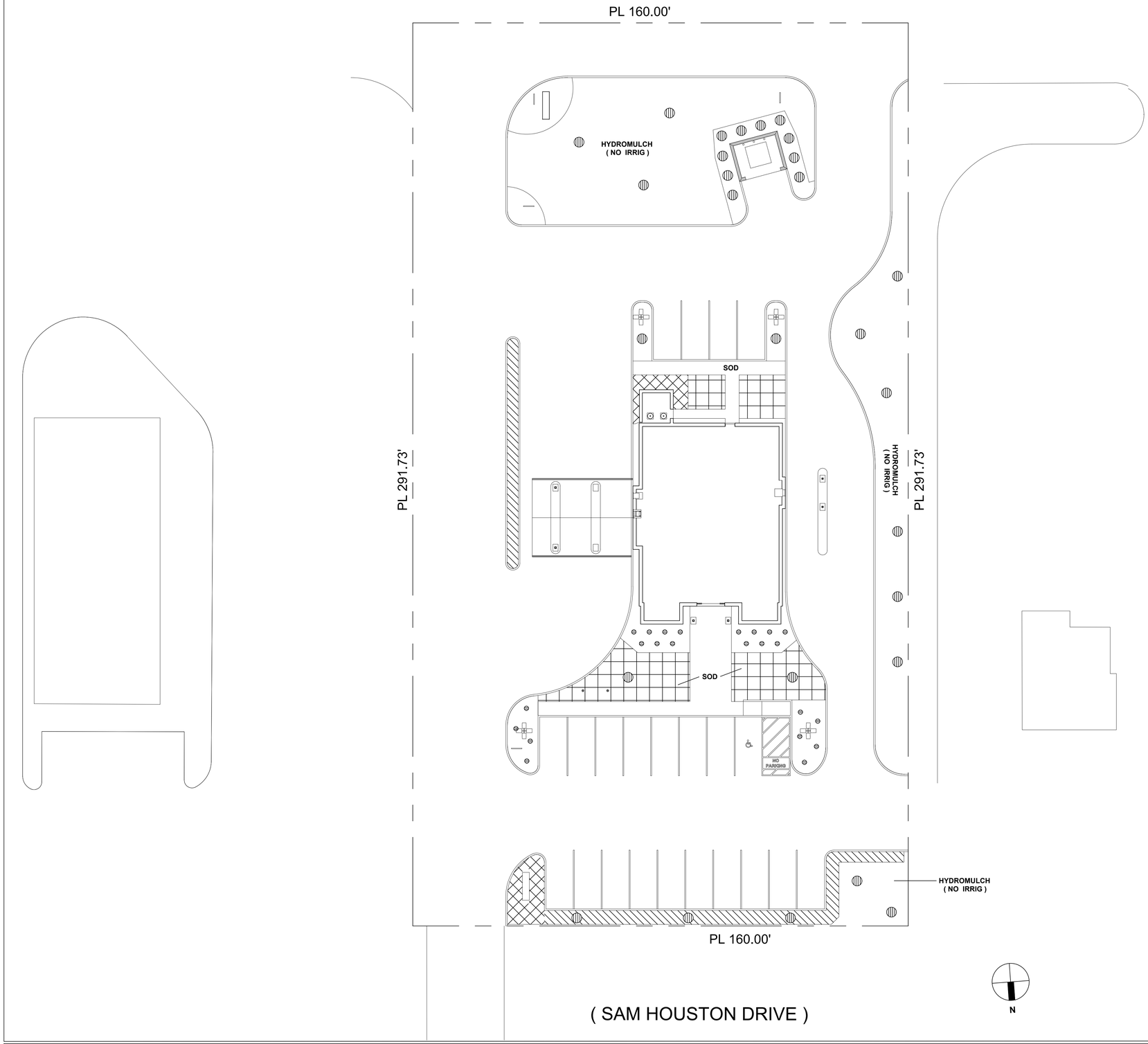
NO.	DATE	DESCRIPTION
1	08/05/26	ISSUE FOR REVIEW
2	08/20/26	ISSUE FOR REVIEW
3	09/04/26	ISSUE FOR PERMIT & BID

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SAM HOUSTON DRIVE, BASTROP , TEXAS

Landscape Plan

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L2



LEGEND		
28		TREE BUBBLERS
23		SHRUB BUBBLERS
		SHRUB DRIPLINE
		SHRUB SPRAY
		TURF SPRAY

INTEGRATED LANDSCAPE ARCHITECTURE, LLC
765 LONG WOOD AVENUE
LAKEWAY, TEXAS 78734
E-MAIL : INFO@LANDARCHTX.COM
PHONE : 713-973-7851

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EXP: 10/31/2026

9/04/26

STATE OF TEXAS
DUANE BUNGO
1375
LICENSED LANDSCAPE ARCHITECT

ISSUES AND REVISIONS

NO.	DATE	DESCRIPTION
1	08/05/26	ISSUE FOR REVIEW
2	08/20/26	ISSUE FOR REVIEW
3	09/04/26	ISSUE FOR PERMIT & BID

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Irrigation Concept

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IR1

IRRIGATION CONCEPT SCALE : 1" = 16' 1

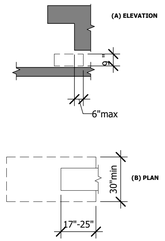


FIG 306.2
TOE CLEARANCE

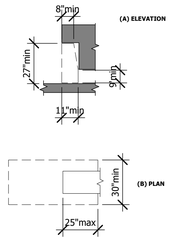


FIG 306.3
KNEE CLEARANCE

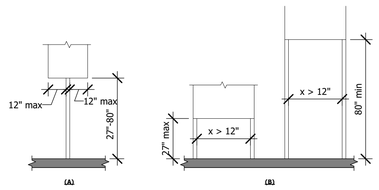


FIG 307.3
POST-MOUNTED PROTRUDING OBJECTS

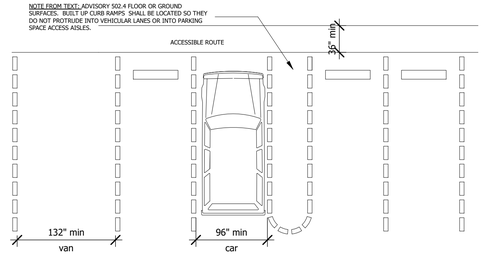


FIG 502.2
VEHICLE PARKING SPACES

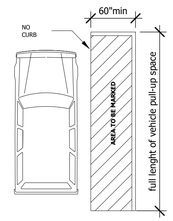


FIG 306.2
TOE CLEARANCE

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

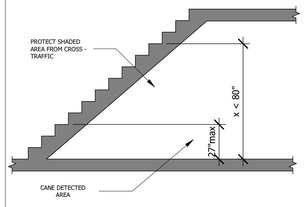


FIG 307.4
VERTICAL CLEARANCE

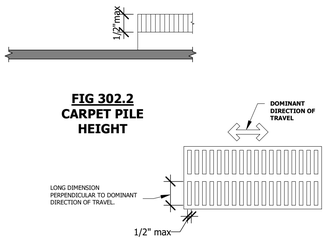


FIG 302.2
CARPET PILE HEIGHT

FIG 302.3
ELONGATED OPENING IN FLOOR OR GROUND SURFACES

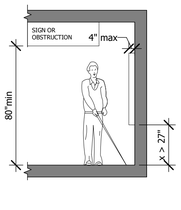


FIG 307.2
LIMITS OF PROTRUDING OBJECTS

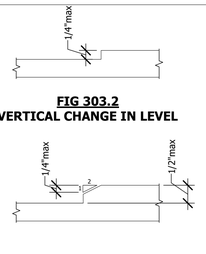


FIG 303.2
VERTICAL CHANGE IN LEVEL

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

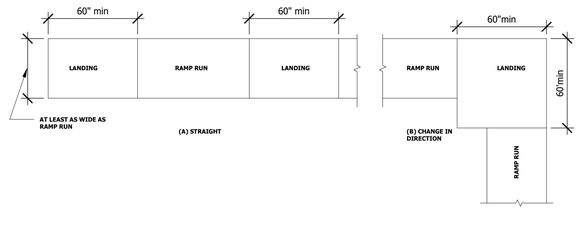


FIG 405.7
RAMP LANDINGS

PROTRUSIONS AND OBSTRUCTIONS ON AN ACCESSIBLE PATH

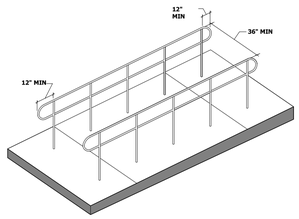


FIG 505.10.1
EXAMPLE OF CLEAR WIDTH AND EDGE PROTECTION

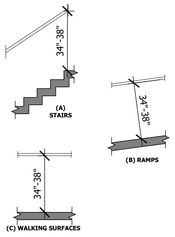


FIG 505.4
HANDRAIL HEIGHT



FIG 505.5
HANDRAIL CLEARANCE

FIG 505.6
HORIZONTAL PROJECT BELOW GRIPPING SURFACE

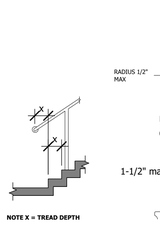


FIG 505.10.3
BOTTOM HANDRAIL EXTENSION AT STAIRS

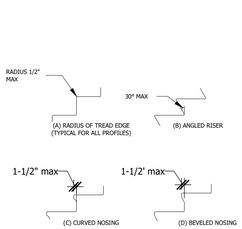


FIG 504.5
STAIR NOSINGS

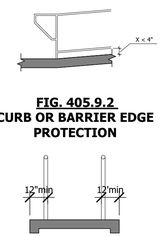


FIG. 405.9.2
CURB OR BARRIER EDGE PROTECTION

FIG. 405.9.1
EXTENDED FLOOR OR GROUND SURFACE EDGE PROTECTION

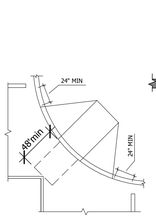


FIG. 406.6
DIAGONAL OR CORNER TYPE CURB RAMPS

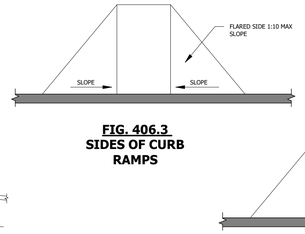


FIG. 406.3
SIDES OF CURB RAMPS

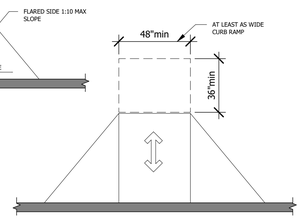


FIG. 406.4
LANDINGS AT THE TOP OF CURB RAMPS

RAMPS, SLOPES AND ASSOCIATED HANDRAILS

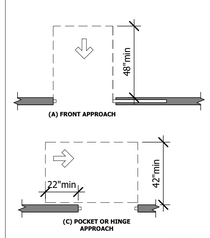


FIG. 404.2.4.2
MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS SLIDING DOORS, GATES, AND FOLDING DOORS

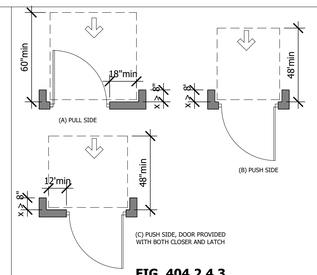


FIG. 404.2.4.3
MANEUVERING CLEARANCES AT RECESSED DOORS AND GATES

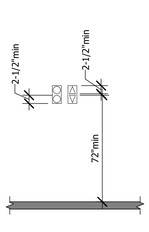


FIG. 407.2.2.2
VISIBLE HALL SIGNALS

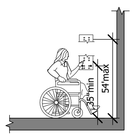


FIG. 407.2.1.1
(EXCEPTION)HEIGHT

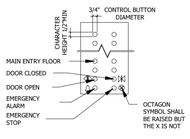


TABLE 407.4.7.1.3
ELEVATOR CONTROL BUTTON IDENTIFICATION

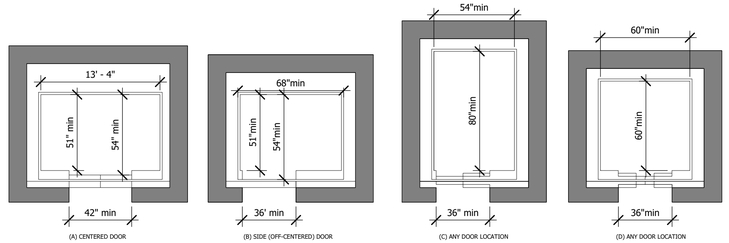


FIG. 407.4.1
ELEVATOR CAR DIMENSIONS

RAMPS, ELEVATORS, AND ASSOCIATED HANDRAILS

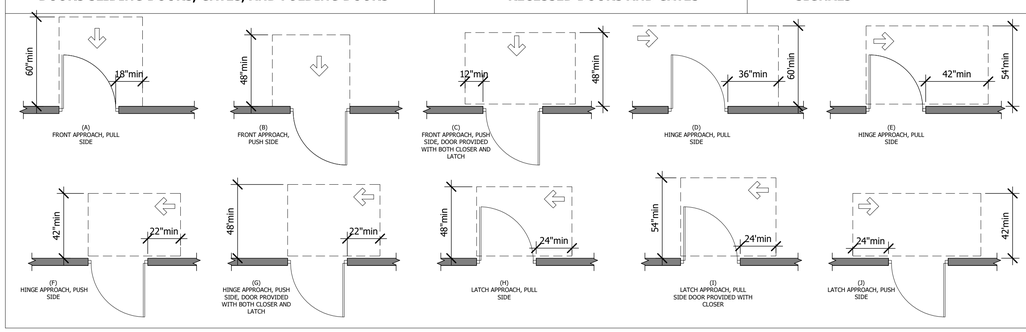


FIG. 404.2.4.1
MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES

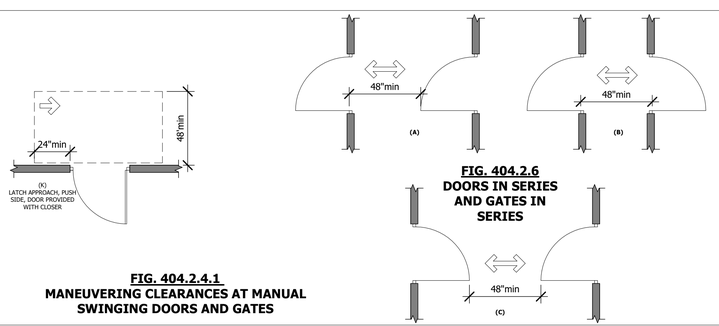


FIG. 404.2.6
DOORS IN SERIES AND GATES IN SERIES

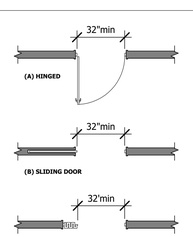


FIG. 404.2.3
CLEAR WIDTH OF DOORWAYS

DOORS AND PASSAGEWAYS

SLI GROUP, INC.
ARCHITECTURE | DESIGN | CONSTRUCTION
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HOUSTON, TEXAS 77084
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264 FM 969 BLDG. 3
BASTROP, TX 78602

Project Number : 8989

ISSUED FOR CLIENT APPROVAL	DATE 08.17.2026
ISSUED FOR BIDDING	09.11.2026
ISSUED FOR PERMIT	09.11.2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE

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09/11/26

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ACCESSIBILITY ROUTE COMPLIANCE

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APPROVED BY	TB	

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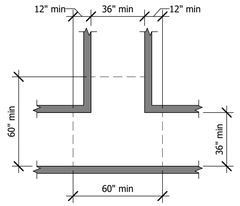


FIG. 304.3.2
T-SHAPED TURNING SPACE

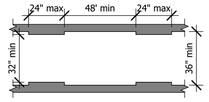
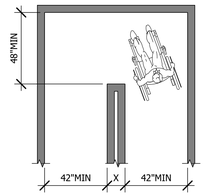
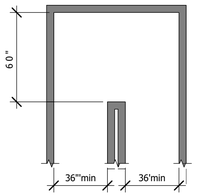


FIG. 403.5.1
CLEAR WIDTH OF AN ACCESSIBLE ROUTE



NOTE: DIMENSIONS SHOWN APPLY WHEN X < 48".
(A) 180 DEGREE TURN



(B) 180 DEGREE TURN (EXCEPTION)

FIG. 403.5.2
CLEAR WIDTH AT TURN

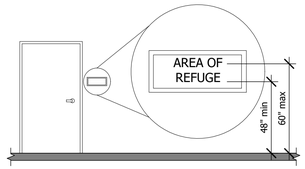


FIG. 703.4.1
HEIGHT OF TACTILE CHARACTERS ABOVE FINISH FLOOR OR GROUND

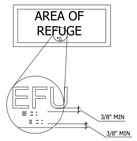


FIG. 703.3.2
POSITION OF BRAILLE

MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
DOT BASE DIAMETER	0.059" (1.5 MM) TO 0.063" (1.6 MM)
DISTANCE BETWEEN CORRESPONDING DOTS IN THE SAME CELL	0.090" (2.3 MM) TO 0.100 (2.5 MM)
DISTANCE BETWEEN CORRESPONDING DOTS DOTS IN ADJACENT CELLS	0.241 (6.1 MM) TO 0.300 (7.6 MM)
DOT HEIGHT	0.395 (10 MM) TO 0.400 (10.2 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

MANEUVERING, TURNING & CLEAR FLOOR SPACE

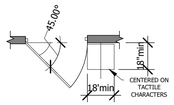


FIG. 703.4.2
LOCATION OF TACTILE SIGNS AT DOORS

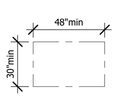


FIG. 305.3
CLEAR FLOOR OR GROUND SPACE

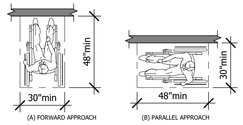


FIG. 305.5
POSITION OF CLEAR FLOOR OR GROUND SPACE

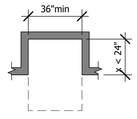


FIG. 305.7.1
MANEUVERING CLEARANCE IN AN ALCOVE, FORWARD APPROACH

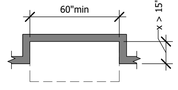


FIG. 305.7.2
MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH

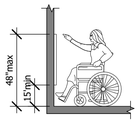


FIG. 308.2.1
UNOBSTRUCTED FORWARD REACH

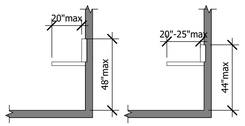


FIG. 308.2.2
OBSTRUCTED HIGH FORWARD REACH

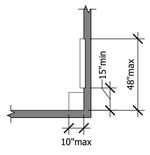


FIG. 308.3.1
UNOBSTRUCTED SIDE REACH

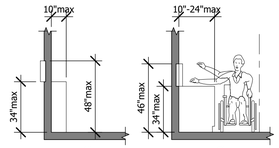


FIG. 308.3.2
OBSTRUCTED HIGH SIDE REACH

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

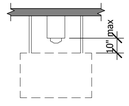


FIG. 704.2.1.1
PARALLEL APPROACH TO TELEPHONE

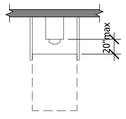


FIG. 704.2.1.2
FORWARD APPROACH TO TELEPHONE

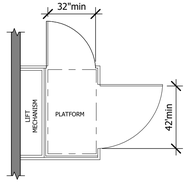


FIG. 410.6
PLATFORM LIFT DOORS AND GATE

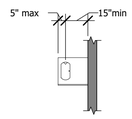


FIG. 602.5
DRINKING FOUNTAIN SPOUT LOCATION

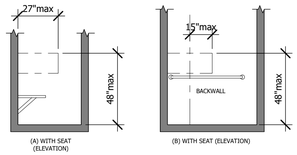


FIG. 608.5.3
ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT CONTROL LOCATION

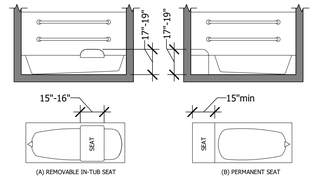


FIG. 610.2
BATHTUB SEATS

WATER FOUNTAINS, AND SERVING LINES HEIGHTS AT PHONES,

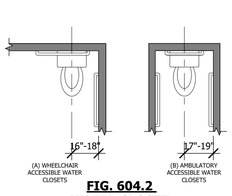


FIG. 604.2
WATER CLOSET LOCATION

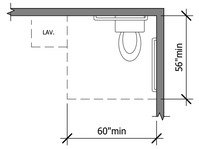


FIG. 604.3.1
SIZE OF CLEARANCE AT WATER CLOSETS

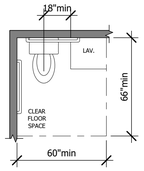


FIG. 604.3.2
(EXCEPTION)OVERLAP OF WATER CLOSET CLEARANCE IN (RESIDENTIAL UNITS)

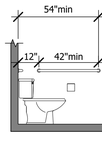


FIG. 604.5.1
SIDE WALL GRAB BAR AT WATER CLOSETS

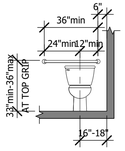


FIG. 604.5.2
REAR WALL GRAB BAR AT WATER CLOSETS

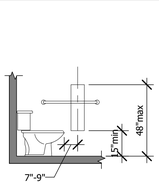


FIG. 604.7
DISPENSER OUTLET LOCATION

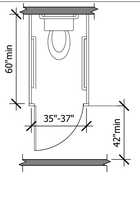


FIG. 604.8.2
AMBULATORY ACCESSIBLE TOILET COMPARTMENT

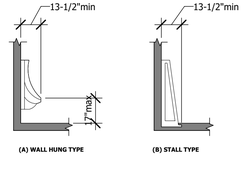


FIG. 605.2
HEIGHT AND DEPTH OF URINALS

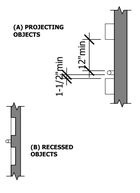


FIG. 609.3
SPACING OF GRAB BARS

LAVATORIES, WATER CLOSETS & TOILET STALLS

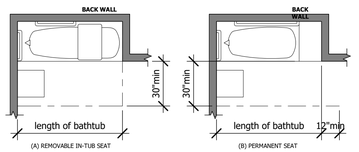


FIG. 607.2
CLEARANCE FOR BATHTUBS

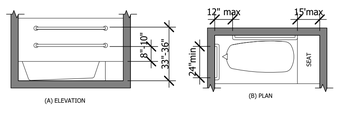
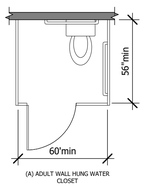


FIG. 607.4.1
GRAB BARS FOR BATHTUBS WITH PERMANENT SEATS



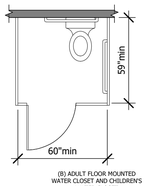


FIG. 604.8.1.1
SIZE OF WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT

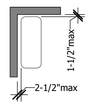


FIG. 610.3.1
RECTANGULAR SHOWER SEAT

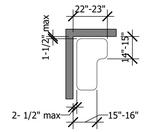


FIG. 610.3.2
L-SHAPED SHOWER SEAT

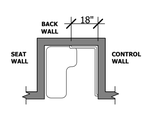


FIG. 608.3.1
GRAB BARS FOR TRANSFER TYPE SHOWERS

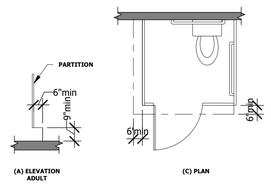


FIG. 604.8.1.4
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT TOE CLEARANCE

SINKS AND BATH TUBS WITH AND WITHOUT SEATS

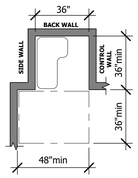


FIG. 608.2.1
SHOWER SIZE AND CLEARANCES 36" BY 36" STALL

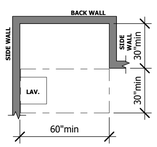


FIG. 608.2.2
STANDARD ROLL-IN TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE

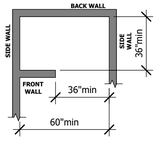


FIG. 608.2.3
ALTERNATE ROLL-IN TYPE SHOWER COMPARTMENT SIZE AND CLEARANCE

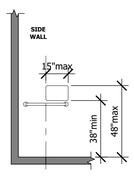


FIG. 608.5.1
TRANSFER TYPE SHOWER COMPARTMENT CONTROL LOCATION

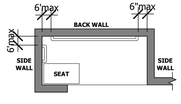


FIG. 608.3.3
GRAB BARS FOR ALTERNATE ROLL-IN TYPE SHOWERS

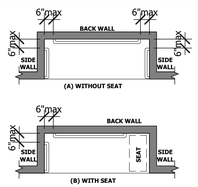
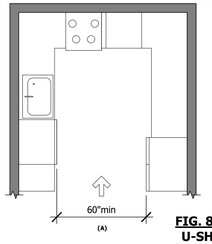


FIG. 608.3.2
GRAB BARS FOR STANDARD ROLL-IN TYPE SHOWERS



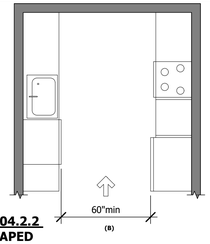


FIG. 804.2.2
U-SHAPED KITCHENS

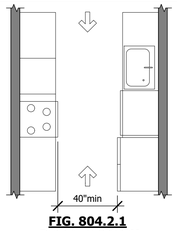


FIG. 804.2.1
PASS THROUGH KITCHENS

SHOWERS: ROLL IN & TRANSFER STALLS

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

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264 FM 969 BLDG. 3
BASTROP, TX 78602
Project Number : 8989

	DATE
ISSUED FOR CLIENT APPROVAL	08.17.2026
ISSUED FOR BIDDING	09.11.2026
ISSUED FOR PERMIT	09.11.2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE

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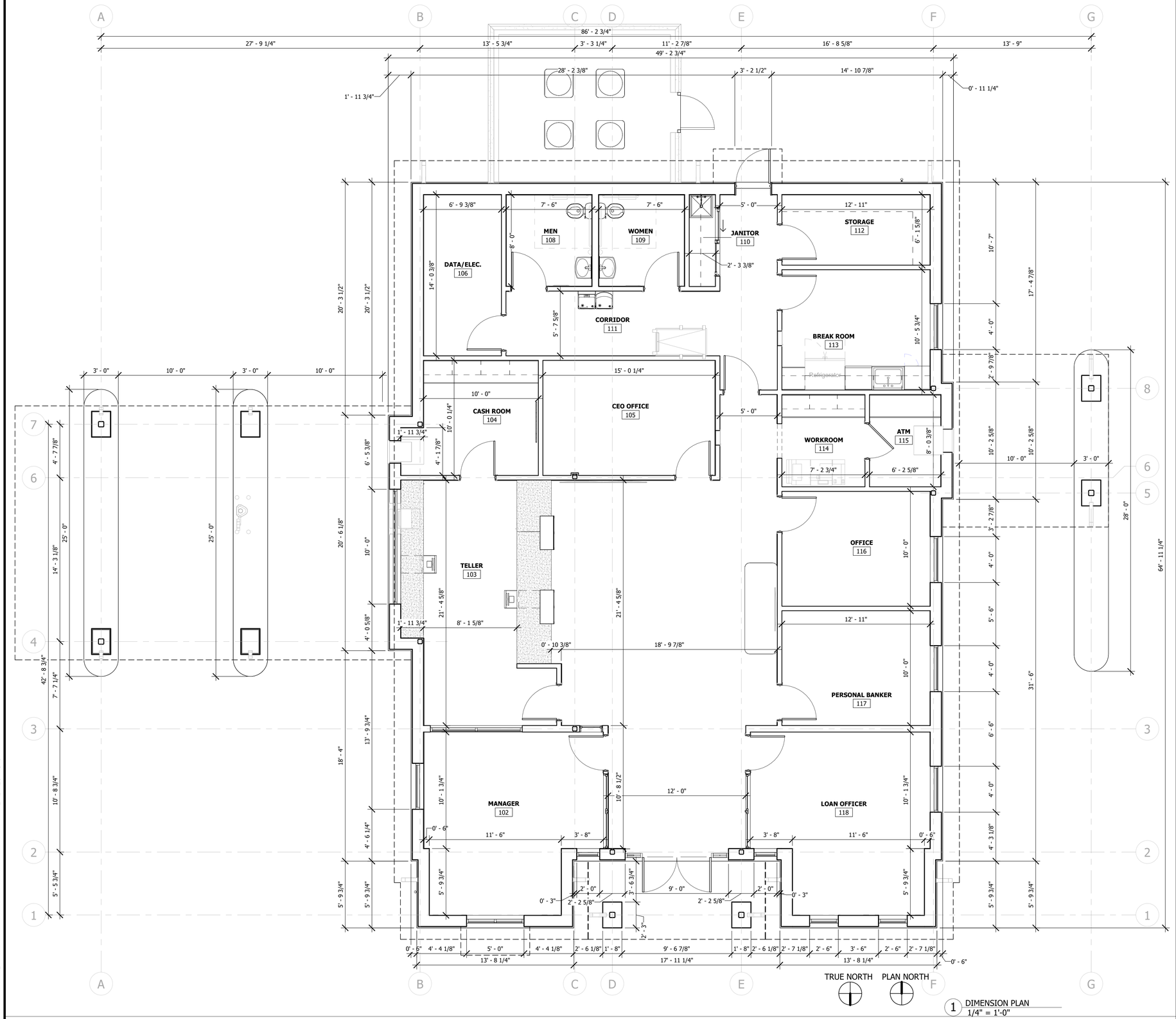


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1 DIMENSION PLAN
1/4" = 1'-0"

GENERAL NOTES

1. NOTIFY ARCHITECT OF ANY DISCREPANCIES AND/OR OMISSIONS.
2. ALL DIMENSIONS ARE TO FINISHED FACE OF PARTITIONS; RE: A-3.0 FOR PARTITION WIDTHS.
3. ALL PARTITIONS TO BE TYPE "A1" UNLESS NOTED OTHERWISE.
4. ALL COLUMNS TO BE TYPE "E1" UNLESS NOTED OTHERWISE.
5. 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.
6. FIRE EXTINGUISHERS ARE TO BE 10 LB. ABC TYPE, AND LOCATED AS SHOWN.
7. REFER TO SHEET A-2.0 FOR DOOR, WINDOW, AND HARDWARE SCHEDULES AND INFORMATION.
8. ADD BLOCKING BEHIND ALL GRAB BARS AND BATHROOM ACCESSORIES.

SLI GROUP, INC.
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264 FM 969 BLDG. 3
BASTROP, TX 78602

Project Number : 8989

	DATE
ISSUED FOR CLIENT APPROVAL	08.17.2026
ISSUED FOR BIDDING	09.11.2026
ISSUED FOR PERMIT	09.11.2026
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REVISIONS

MARK	DESCRIPTION	DATE

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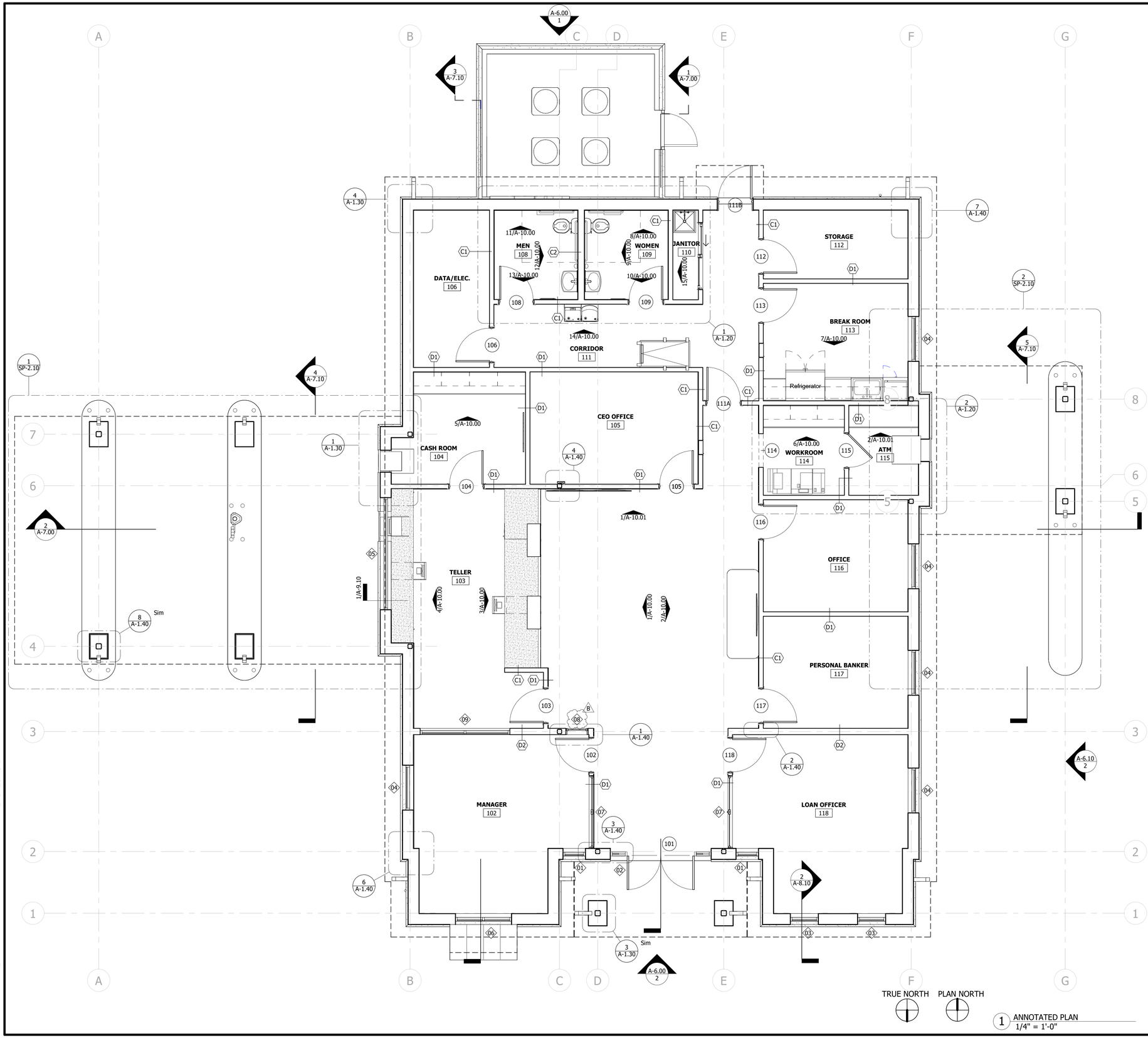
REGISTERED ARCHITECT
THOMAS B. TANNER
14288
STATE OF TEXAS
09/11/26

DRAWING TITLE
FLOOR PLAN

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CHECKED BY	CA
APPROVED BY	TB

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1 ANNOTATED PLAN
1/4" = 1'-0"

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B	ADDENDUM B	09.25.26

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THOMAS B. ANDERSON
14288
STATE OF TEXAS
09/25/26

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FLOOR PLAN-ANNOTATION

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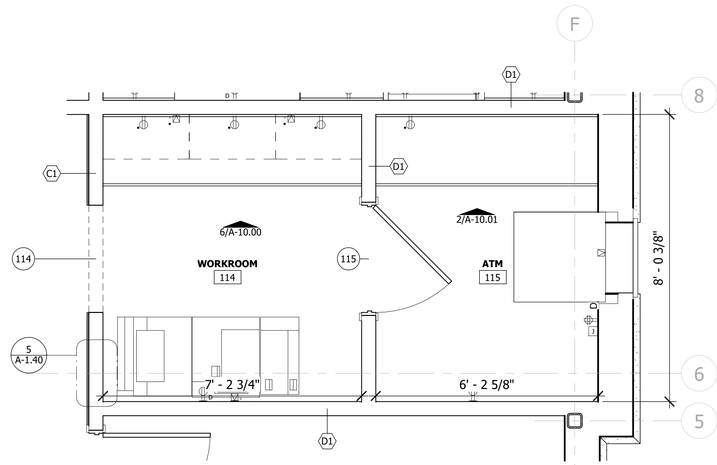
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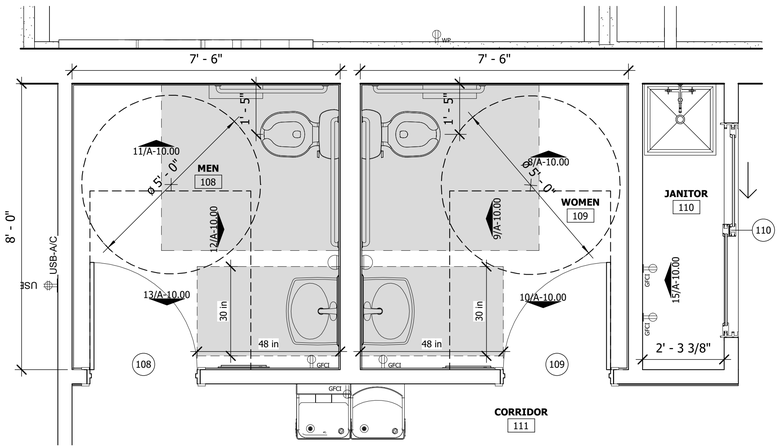
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2 LEVEL 1 - ANNOTATED PLAN - Callout 2
1/2" = 1'-0"



1 ENLARGED MEN 108 & WOMEN 109 PLAN
1/2" = 1'-0"

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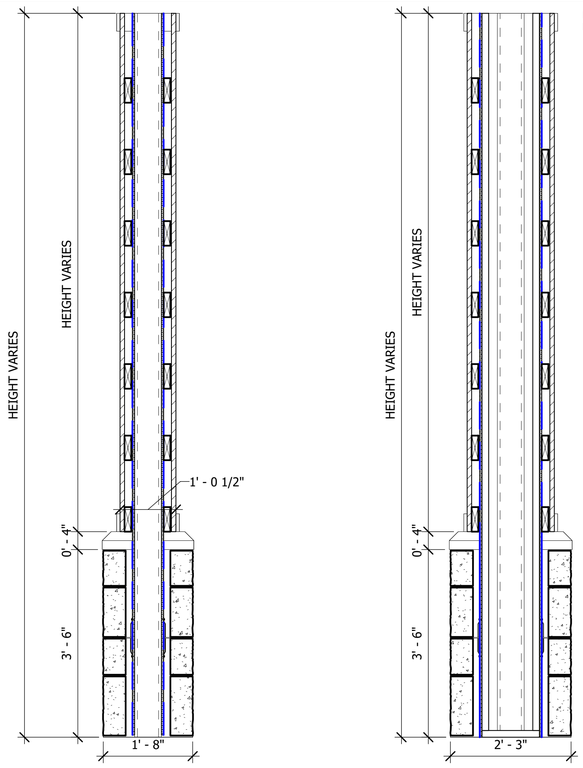
REGISTERED ARCHITECT
THOMAS B. BAKER
14288
STATE OF TEXAS
09/11/26

DRAWING TITLE
ENLARGED PLAN DETAILS

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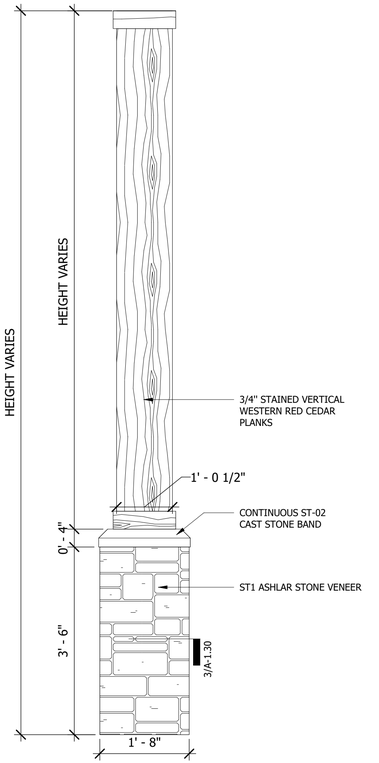
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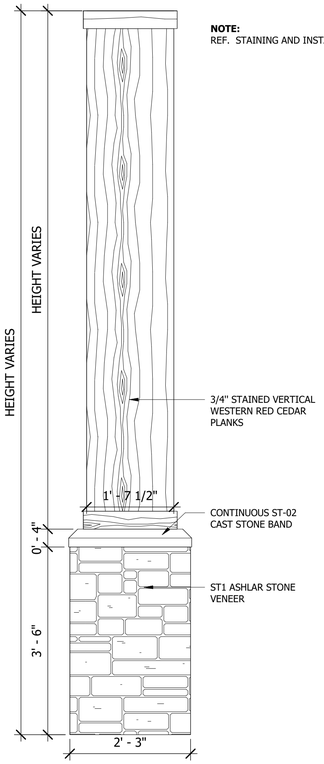
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NOTE:
REF. STAINING AND INSTALLATION NOTES ON A-6.00

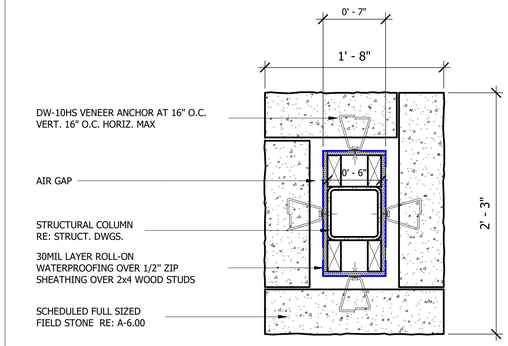
EXTERIOR COLUMN DETAIL
3/4" = 1'-0"



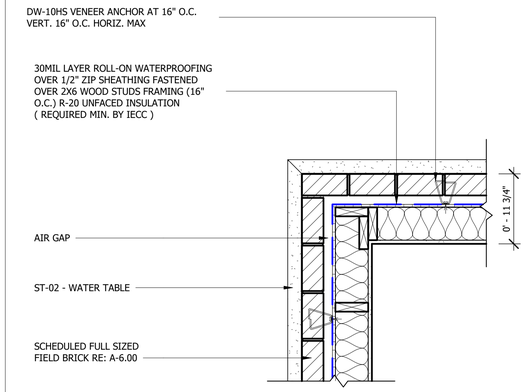


NOTE:
REF. STAINING AND INSTALLATION NOTES ON A-6.00

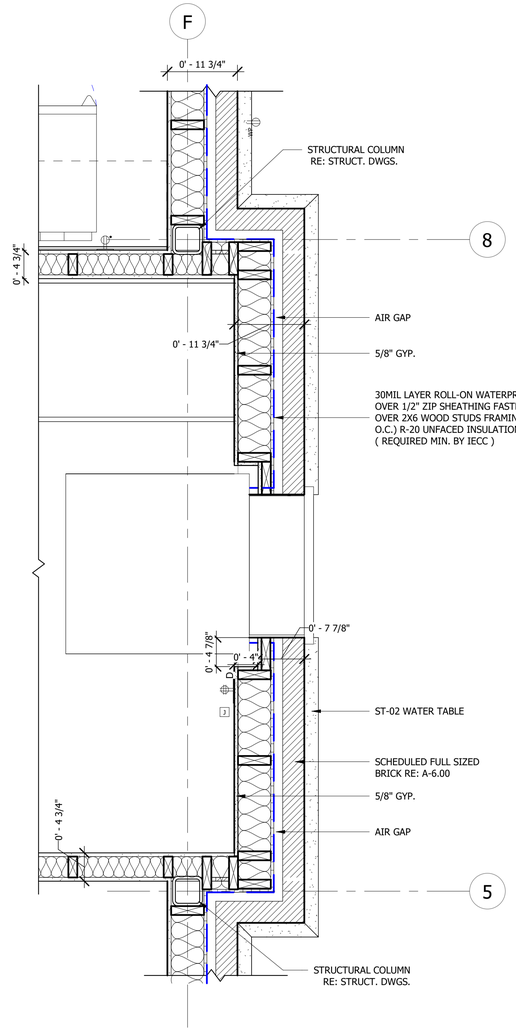
EXTERIOR COLUMN
3/4" = 1'-0"



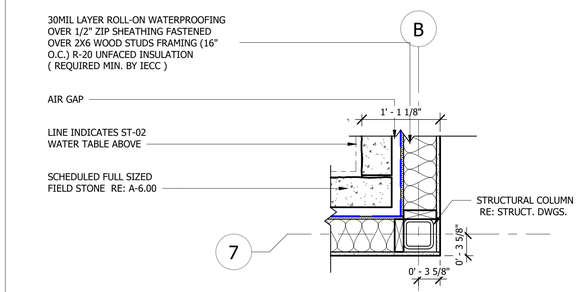
3 COLUMN PLAN DETAIL
1 1/2" = 1'-0"



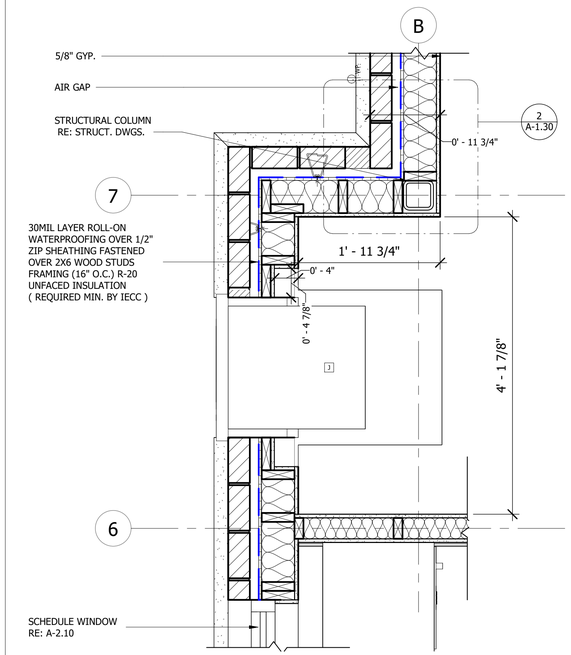
4 ANNOTATED PLAN - Callout 3
1" = 1'-0"



5 ATM DRIVE-THRU PLAN DETAIL
1" = 1'-0"



2 AHD PLAN DETAIL - Callout 1
1" = 1'-0"



1 AHD PLAN DETAIL
1" = 1'-0"

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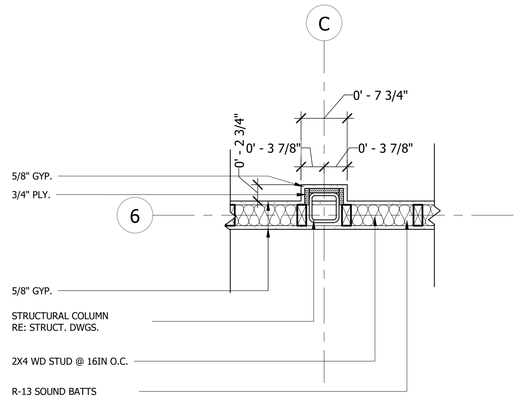
DRAWING TITLE
PLAN DETAILS

DRAWN BY	RG
CHECKED BY	CA
APPROVED BY	TB

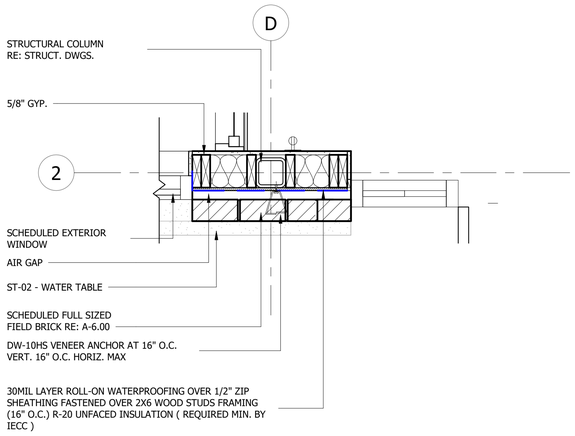
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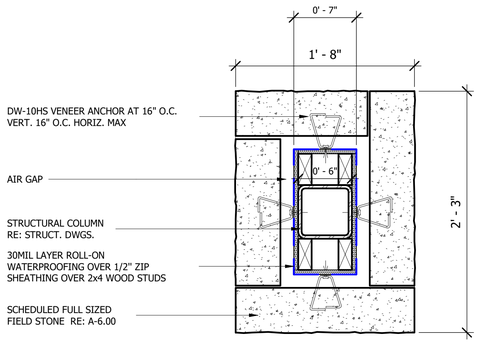
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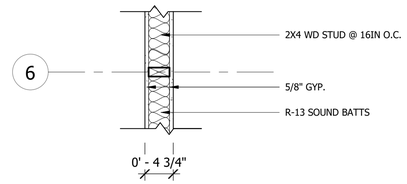
4 ANNOTATED PLAN - Callout 4
1" = 1'-0"



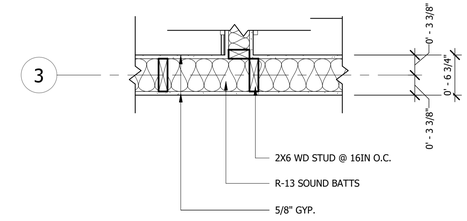
3 ANNOTATED PLAN - Callout 7
1" = 1'-0"



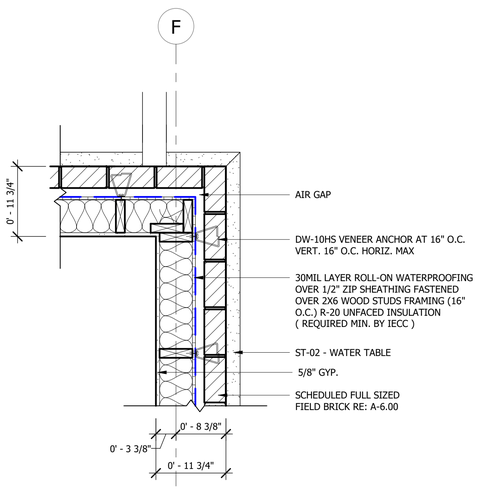
8 DRIVE-THRU COLUMN PLAN DETAIL
1 1/2" = 1'-0"



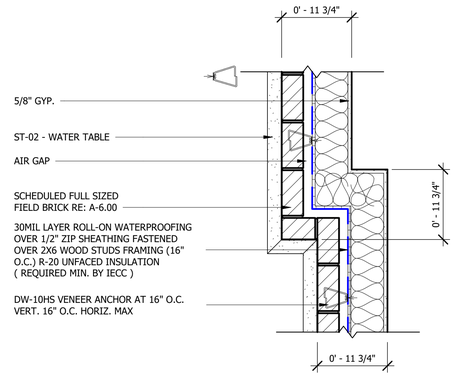
5 LEVEL 1 - ANNOTATED PLAN - Callout 2 - Callout 1
1" = 1'-0"



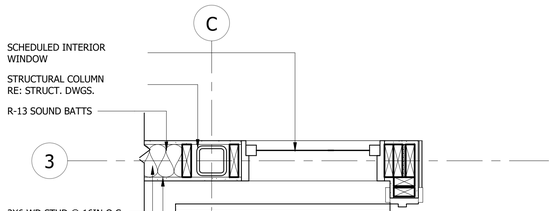
2 ANNOTATED PLAN - Callout 6
1" = 1'-0"



7 ANNOTATED PLAN - Callout 2
1" = 1'-0"



6 ANNOTATED PLAN - Callout 1
1" = 1'-0"



1 ANNOTATED PLAN - Callout 5
1" = 1'-0"

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GENERAL NOTES

1. NOTIFY ARCHITECT OF ANY DISCREPANCIES AND/OR OMISSIONS.
2. REMODEL PROJECTS REQUIRE FIELD VERIFICATION BY SUBCONTRACTOR
3. SAMPLE SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL

HW SET #01 (Double Store Front)
2 ea. Top Pivot - (by s.f. mfr.)
2 ea. Intermediate Pivot - (by s.f. mfr.)
2 ea. Bottom Pivot - (by s.f. mfr.)
1 ea. Threshold - (by s.f. mfr., to match existing)
2 ea. Push and pull bar set
1 set Weatherstripping - (by s.f. mfr.)
2 ea. Closer - (by s.f. mfr.)
1 set Flush Bolt (top & bottom, by s.f. mfr.)
1 ea. Cylinder with Thumb Turn Lock and Lock Indicator on Interior Side - (by s.f. mfr.)

HW SET #02 (PRIVACY LOCKSET)
1 ½ PR BUTTS - HAGER BB1279 L1 4 ½ X 4 ½ FINISH: US10B
1 EA. PRIVACY LATCHSET - HAGER 3440 - WITHNELL LEVER FINISH:US10B
1 EA. FLOOR STOP - HAGER 243F FINISH: US10B

HW SET #03 (BY-PASS DOOR STOREROOM)
1 EA. 9611HD-96 PACKAGED SETS
2 EA. EMTEK 2113US15134 FINISH: DARK BRONZE

HW SET #04 (OFFICE SET)
1 ½ PR BUTTS - HAGER BB1279 4 ½ X 4 ½ FINISH: US10B
1 EA. OFFICE LOCK-HAGER 3450 WITHNELL LEVER FINISH: US10B
1 EA. FLOOR STOP - HAGER 243F FINISH: US10B

HW SET #05 (EXTERIOR PANIC HARDWARE)
1 ½ PR. BUTTS - HAGER BB1279 4 1/2 X 4 1/2
1 EA. TRILOGY T2 RIM - ETDL27 - RR-4KEYFOB EXIT DEVICE - WITH KEY-IN-LEVER TRIM
1 EA. CLOSER - HAGER5400 FINISH: US10B
1 EA. THRESHOLD - PEMKO 2005DV 36"
1 EA. WEATHERSTRIPPING - PEMKO 303_S1 EA. DRIP CAP -PEMKO 346D 40"
1 EA. 170 DEGREE WIDE ANGLE DOOR SCOPE VIEWER"
1 EA. DOOR BOTTOM SWEEP - PEMKO 307DV 36"

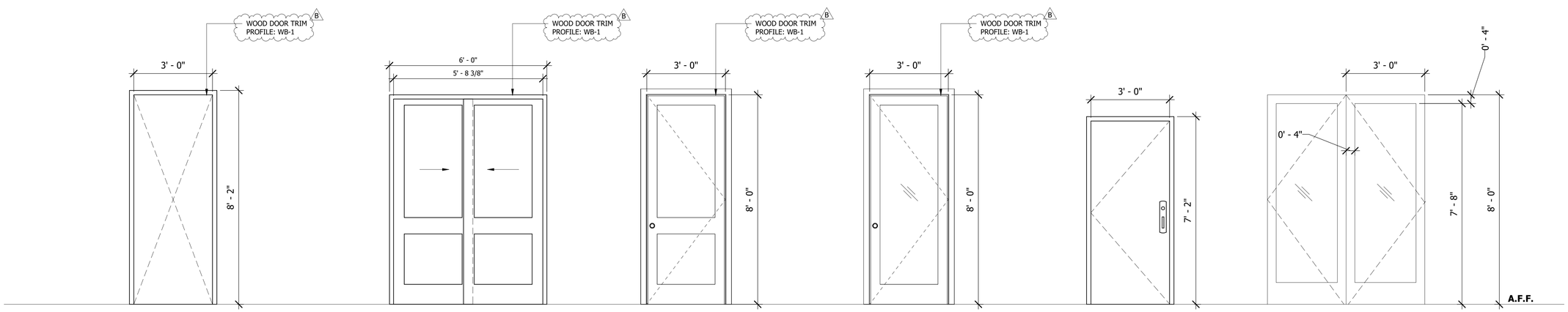
HW SET #06 (KEYPAD ACCESS)
1 ½ PR BUTTS - HAGER BB1279 4 ½ X 4 ½ FINISH: US10B
1 EA. TRILOGY T2 - DL2700IC LOCK- HAGER 3480 WITHNELL LEVER FINISH: US10B
1 EA. FLOOR STOP - HAGER 243F FINISH: US10B

****CLOSER: HAGER 5100 (SURFACE MOUNTED) AND 5200 SERIES-HEAVY DUTY GRADE 1 DOOR CLOSER ****
****PANIC BAR OPTIONS: 4500 SERIES (RIM/HEAVY DUTY), 4700 SERIES(RIM/LIGHT COMMERCIAL)AND 4500 SERIES (VERTICAL ROD/HEAVY DUTY)****
****KEYPAD ALARM LOCK TRILOGY T2 STANDALONE DIGITAL CYLINDRICAL LOCK 2700****
****ALL MAGLOCKS AND KEYFOB HARDWARE BY OWNER****

1 HARDWARE SETS
1 1/2" = 1'-0"

DOOR SCHEDULE

DOOR #	FROM	TO	DOOR			FRAME		HARDWARE		FIRE RATING	NOTES
			HAND	TYPE	FINISH	TYPE	FINISH	SET	FINISH		
101	EXTERIOR	LOBBY 100	RHR/LHR	A	S.F.	ALUM.	CLEAR ANOD.	01	622		CLOSER
102	LOBBY 100	MANAGER 102	RH	C	STAINED WD	WD	STAINED WD	04			
103	LOBBY 100	TELLER 103	LH	D	STAINED WD	WD	STAINED WD	06			KEYPAD & CLOSER
104	TELLER 103	CASH ROOM 104	RH	D	STAINED WD	WD	STAINED WD	06			KEYPAD & CLOSER
105	LOBBY 100	CEO OFFICE 105	RH	C	STAINED WD	WD	STAINED WD	04			
106	CORRIDOR 111	DATA/ELEC. 106	LH	D	STAINED WD	WD	STAINED WD	06			KEYPAD & CLOSER
108	CORRIDOR 111	MEN 108	LH	D	STAINED WD	WD	STAINED WD	02			
109	CORRIDOR 111	WOMEN 109	RH	D	STAINED WD	WD	STAINED WD	02			
110	JANITOR 110	CORRIDOR 111	SLIDING	E	STAINED WD	WD	STAINED WD	03			
111A	LOBBY 100	CORRIDOR 111	LH	D	STAINED WD	WD	STAINED WD	06			
111B	CORRIDOR 111	EXTERIOR	RH	B	PAINTED	H.M.	PAINTED	05			KEYFOB ACCESS
112	CORRIDOR 111	STORAGE 112	RH	D	STAINED WD	WD	STAINED WD	06			KEYPAD & CLOSER
113	BREAK ROOM 113	CORRIDOR 111	LH	D	STAINED WD	WD	STAINED WD				CLOSER
114	LOBBY 100	WORKROOM 114	CASED OPENING	F	OPENING	GYP	STAINED WD				
115	WORKROOM 114	ATM 115	LH	D	STAINED WD	WD	STAINED WD	06			KEYPAD & CLOSER
116	LOBBY 100	OFFICE 116	LH	C	STAINED WD	WD	STAINED WD	04			
117	LOBBY 100	PERSONAL BANKER 117	RH	C	STAINED WD	WD	STAINED WD	04			
118	LOBBY 100	LOAN OFFICER 118	LH	C	STAINED WD	WD	STAINED WD	04			



DOOR TYPE "F"
CASED OPENING W/STAINED WOOD TRIM REF INTERIOR DWGS.

DOOR TYPE "E"
BYPASS 2 PANEL WOOD DOOR IN A WOOD FRAME. DOOR TO BE STAINED. REF INTERIOR DWGS.

DOOR TYPE "D"
2 PANEL WOOD DOOR IN A WOOD FRAME. DOOR TO BE STAINED. REF INTERIOR DWGS.

DOOR TYPE "C"
FULL GLASS LITE WOOD DOOR IN A WOOD FRAME. DOOR TO BE STAINED. REF INTERIOR DWGS.

DOOR TYPE "B"
HOLLOW METAL DOOR IN A HOLLOW METAL FRAME

DOOR TYPE "A"
STOREFRONT DOOR SYSTEM

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264 FM 969 BLDG. 3
BASTROP, TX 78602

Project Number : 8989

ISSUED FOR	DATE
ISSUED FOR CLIENT APPROVAL	08.17.2026
ISSUED FOR BIDDING	09.11.2026
ISSUED FOR PERMIT	09.11.2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE
B	ADDENDUM B	09.25.26

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REGISTERED ARCHITECT THOMAS S. LAWLER 14288 STATE OF TEXAS
09/25/26

DRAWING TITLE
DOOR SCHEDULE

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RG	CA	TB	A-2.00

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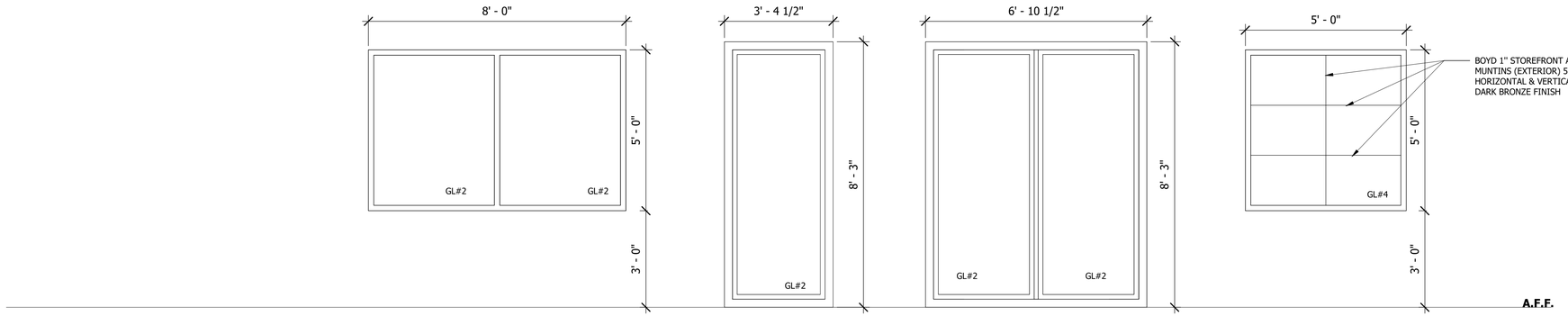
GLASS SPECIFICATION:

GL#1: TEMPERED 1/4" SOLAR GREY SOLARBAN 60 TINT/CENTER GLAZED GLASS

GL#2 TEMPERED 1/2" CLEAR GLASS/ CENTER GLAZED GLASS

GL#3 BULLET RESISTANT GLASS

GL#4: 1" INSULATED PPG SOLAR GREY SOLARBAN 60 TEMPERED GLASS (1/4" SOLAR GREY SOLARBAN 60 (#2) FT GLASS X ½" MILL AIRSPACER X ¼" CLEAR FT GLASS)



09 INTERIOR

STAINED WOOD FRAME WINDOWS WITH 1/2" TEMPERED CLEAR GLASS -CENTER GLAZED-

08 INTERIOR

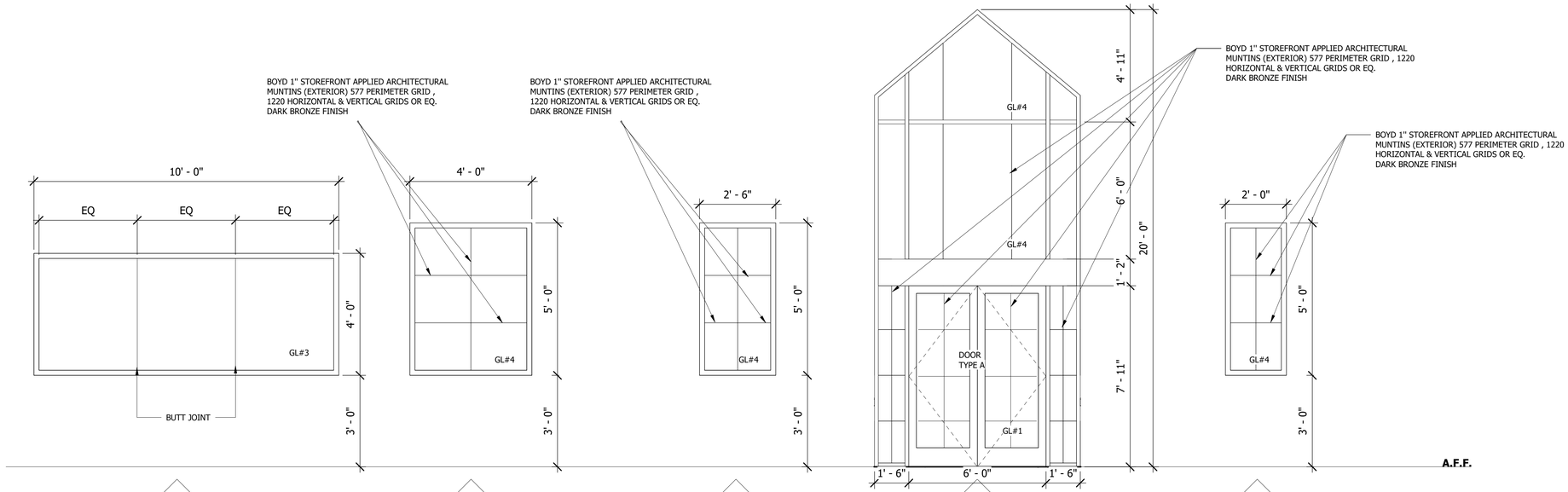
STAINED WOOD FRAME WINDOWS WITH 1/2" TEMPERED CLEAR GLASS -CENTER GLAZED-

07 INTERIOR

STAINED WOOD FRAME WINDOWS WITH 1/2" TEMPERED CLEAR GLASS -CENTER GLAZED-

06 EXTERIOR

DARK BRONZE STOREFRONT FRAME WITH 1" INSULATED GLASS AND SURFACE APPLIED MULLION -CENTER GLAZED-



05 EXTERIOR

1" BULLET RESISTANT GLASS IN DARK BRONZE STOREFRONT FRAME -CENTER GLAZED-

04 EXTERIOR

DARK BRONZE STOREFRONT FRAME WITH 1" INSULATED GLASS AND SURFACE APPLIED MULLION -CENTER GLAZED-

03 EXTERIOR

DARK BRONZE STOREFRONT FRAME WITH 1" INSULATED GLASS AND SURFACE APPLIED MULLION -CENTER GLAZED-

02 EXTERIOR

DARK BRONZE STOREFRONT FRAME WITH 1" INSULATED GLASS AND SURFACE APPLIED MULLION -CENTER GLAZED-

01 EXTERIOR

DARK BRONZE STOREFRONT FRAME WITH 1" INSULATED GLASS AND SURFACE APPLIED MULLION -CENTER GLAZED-

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ARCHITECTURE | DESIGN | CONSTRUCTION

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REGISTERED ARCHITECT THOMAS R. TAYLOR 14288 STATE OF TEXAS

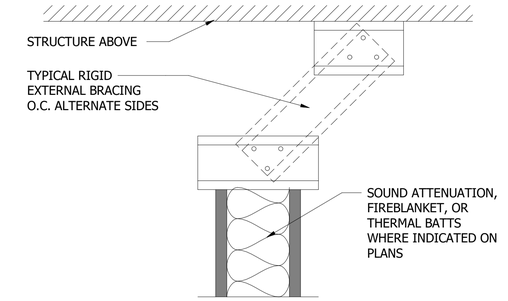
09/11/26

DRAWING TITLE

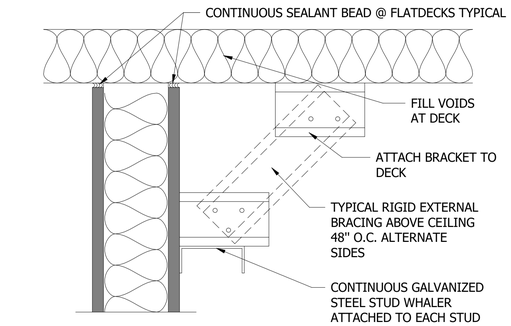
WINDOW SCHEDULE

DRAWN BY	RG	SHEET NO.
CHECKED BY	CA	A-2.10
APPROVED BY	TB	

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

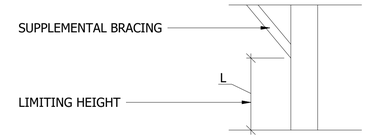


HEAD (FOR LOCATIONS WHERE
PARTITIONS HEIGHT EXCEEDS LISTED LIMITING HEIGHT)

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)

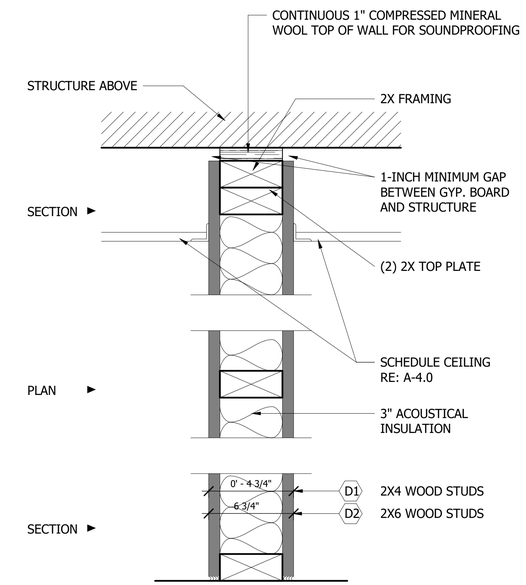
UNDERWRITERS LABORATORY AND OTHER TESTING AGENCY DESIGNATIONS INDICATED FOR FIRE RESISTIVE CONSTRUCTION ARE GIVEN FOR PURPOSES OF DESCRIBING CONSTRUCTION REQUIREMENTS ONLY AND ARE NOT INTENDED TO LIMIT MANUFACTURERS OF MATERIALS. COMPLY WITH THE CONSTRUCTION REQUIREMENTS OF THE INDICATED DESIGN.
LIMITING 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.

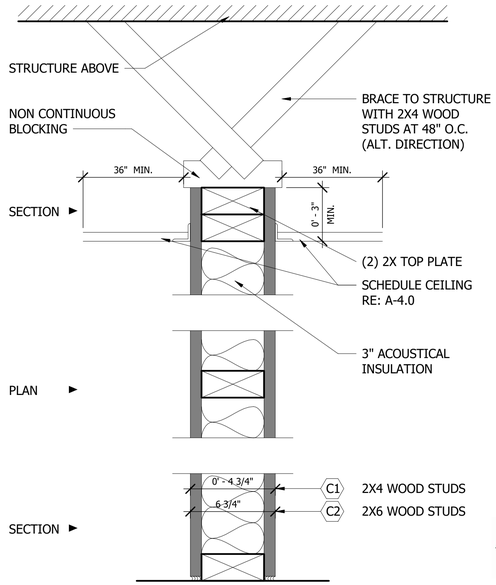
BRACE DETAIL GENERAL SCALE : N.T.S.

1 GENERAL NOTES - INTERIOR PARTITIONS (A-3.00)
1 1/2" = 1'-0"



PARTITION TYPE D:
2X WOOD STUDS @ 16" O.C.
WITH ONE LAYER OF 5/8" GYPSUM BOARD EACH SIDE
AND 3" FIBERGLASS ACOUSTICAL INSULATION FULL HEIGHT

PARTITION TYPE: D GENERAL SCALE : N.T.S.



PARTITION TYPE C:
2X WOOD STUDS @ 16" O.C.
WITH ONE LAYER OF 5/8" GYPSUM BOARD EACH SIDE
AND 3" FIBERGLASS ACOUSTICAL INSULATION FULL HEIGHT

PARTITION TYPE: C GENERAL SCALE : N.T.S.

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REGISTERED ARCHITECT
TIFFANY S. BAKER
14288
STATE OF TEXAS
09/11/26

DRAWING TITLE
INTERIOR PARTITIONS

DRAWN BY	RG	SHEET NO.
CHECKED BY	CA	A-3.00
APPROVED BY	TB	

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GENERAL NOTES

1. NOTIFY ARCHITECT OF ANY DISCREPANCIES AND/OR OMISSIONS.
2. REMODEL PROJECTS REQUIRE FIELD VERIFICATION BY SUBCONTRACTOR
3. ALL CEILING GRIDS SHALL BE CENTERED IN ROOM UNLESS OTHERWISE SPECIFIED
4. CEILING HEIGHTS TO BE 9'-0" A.F.F. UNLESS OTHERWISED SPECIFIED
5. SIMPSON TSP CLIPS REQUIRED AT ALL FUR-DOWN FRAMING.

CEILING LEGEND

- 2'X2' CERTAINTEED SAND MICRO WITH THE NRC OF .50 TEGULAR CEILING TILE WITH 15/16" WHITE GRID
- 5/8" GYPSUM WALLBOARD CEILING/SOFFIT
- INTERIOR & EXTERIOR WOOD CEILING.
- DIRECT-APPLIED EXTERIOR FINISH SYSTEM ON DRYWALL SUSPENSION SYSTEM
- 10' - 10" A.F.F. — INDICATES CEILING HEIGHT
- PAINTED GALVANIZED METAL 24"X24" ACCESS PANELS
- PAINTED GALVANIZED METAL 24"X24" ACCESS PANELS
- C.J. — CONTROL JOINT

LIGHTING LEGEND

- 2'X4' LED FIXTURE; RE:ELECTRICAL DRAWINGS
- 2'X4' LED FIXTURE FIXTURE WITH EMERGENCY BACKUP; RE:ELECTRICAL DRAWINGS
- UNDERCOUNTER TASK LIGHTING; RE:ELECTRICAL DRAWINGS
- RECESSED INTERIOR ROUND LIGHT FIXTURE; RE:ELECTRICAL DRAWINGS
- RECESSED EXTERIOR ROUND LIGHT FIXTURE WITH EMERGENCY BACKUP; RE:ELECTRICAL DRAWINGS
- EXTERIOR SCONCE LIGHT FIXTURE; RE:ELECTRICAL DRAWINGS
- EXTERIOR SCONCE LIGHT FIXTURE; RE:ELECTRICAL DRAWINGS
- INTERIOR CHANDELIER LIGHT FIXTURE; RE:ELECTRICAL DRAWINGS
- EXTERIOR CHANDELIER LIGHT FIXTURE; RE:ELECTRICAL DRAWINGS
- INTERIOR RECESSED CEILING SPEAKER FIXTURE; RE:ELECTRICAL DRAWINGS

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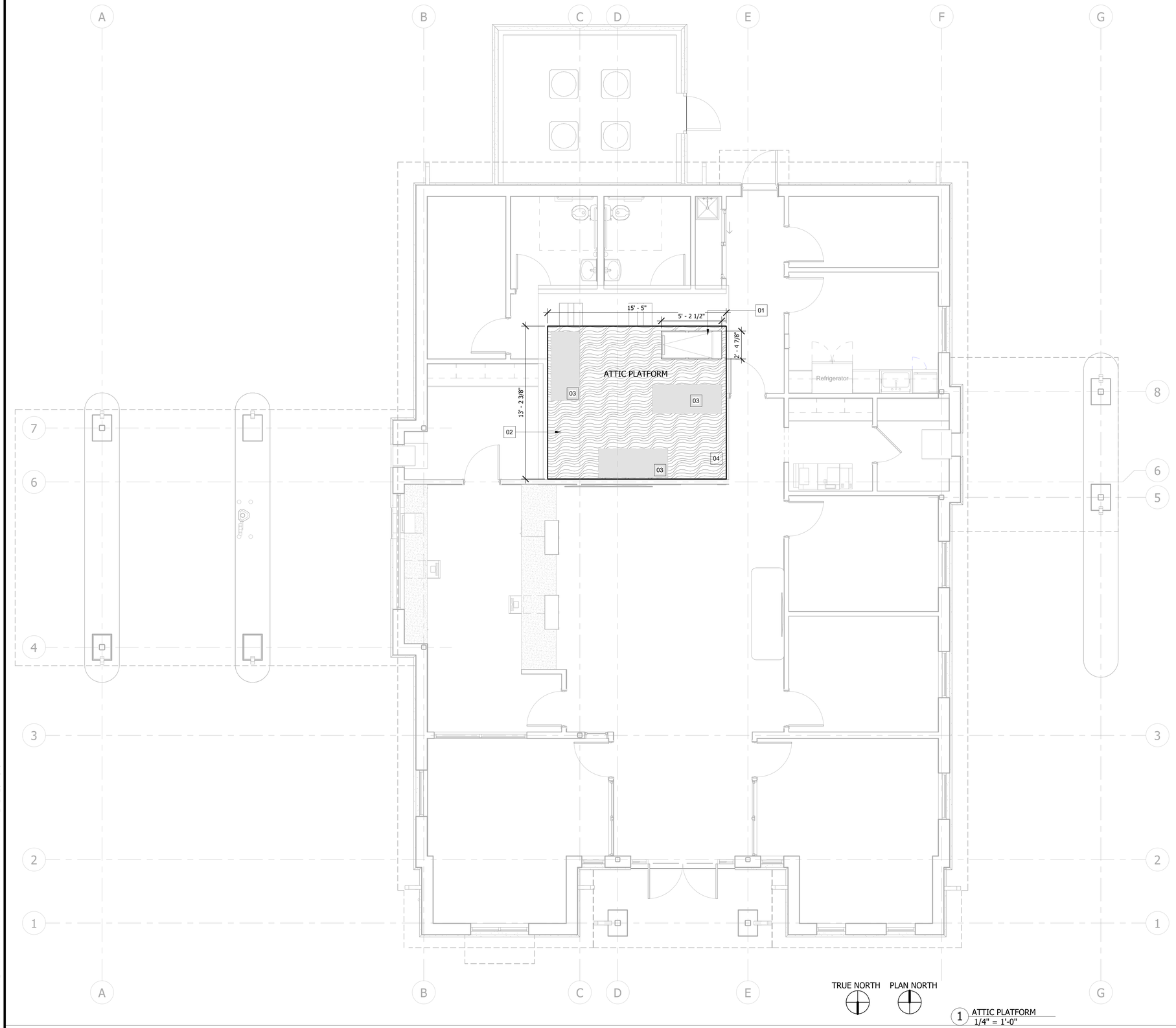
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THOMAS B. TAYLOR
REGISTERED ARCHITECT
14288
STATE OF TEXAS
09/25/26

DRAWING TITLE
RCP

DRAWN BY	RG	SHEET NO.
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APPROVED BY	TB	

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TRUE NORTH PLAN NORTH

1 ATTIC PLATFORM
1/4" = 1'-0"

ATTIC KEYNOTES	
NOTE NUMBER	NOTE TEXT
01	ATTIC ACCESS LADDER OPENING
02	3/4" PLYWOOD EQUIPMENT PLATFORM DECK
03	NEW AHU RE: MECHANICAL DWGS.
04	PROVIDE LIGHTING AND OUTLETS AT PLATFORM FOR EQUIPMENT SERVICING RE: LIGHTING & ELCTRICAL DWGS.

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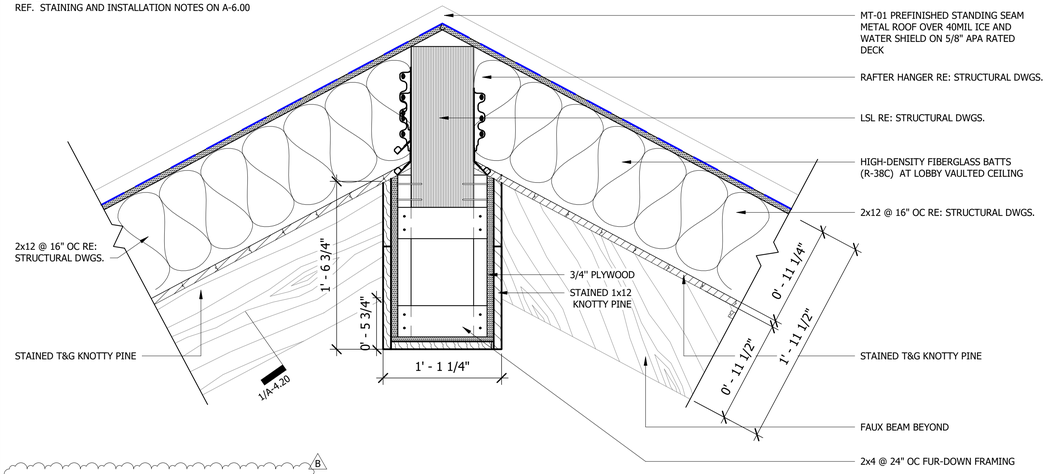
REGISTERED ARCHITECT THOMAS B. TAYLOR 14288 STATE OF TEXAS
09/11/26

DRAWING TITLE
ATTIC PLATFORM

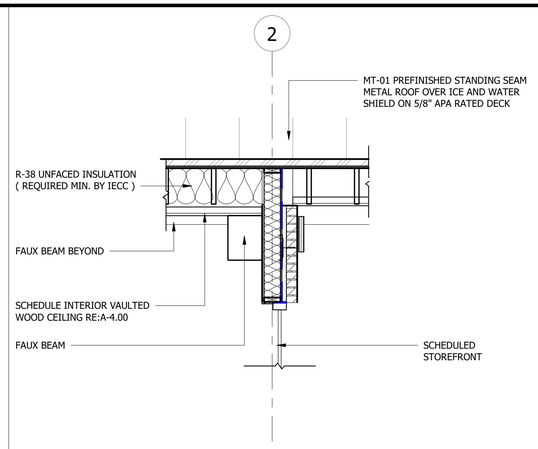
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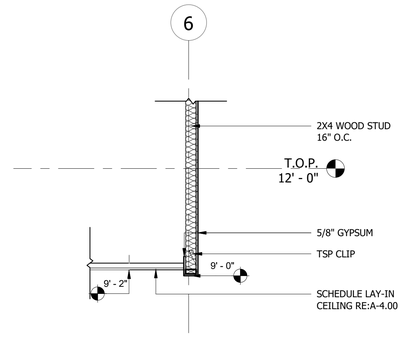
NOTE:
REF. STAINING AND INSTALLATION NOTES ON A-6.00



10 LOBBY VAULTED CEILING+ROOF ASSEMBLY
1 1/2" = 1'-0"

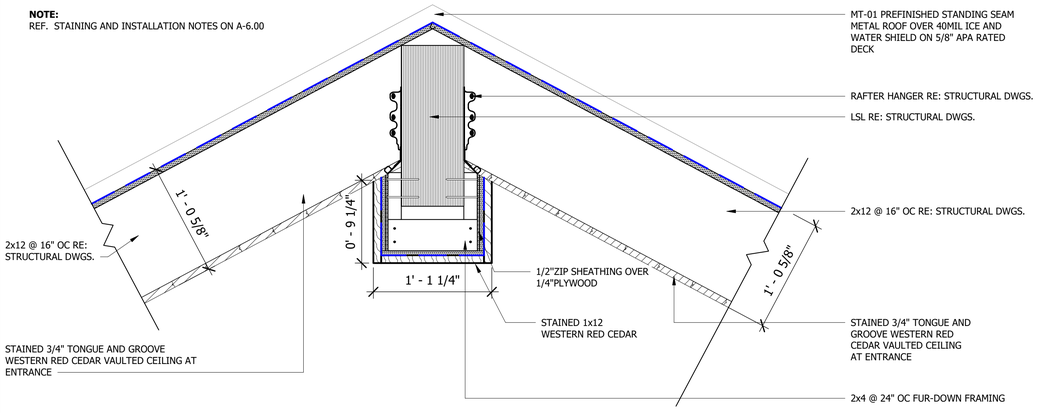


4 Detail 2
1/2" = 1'-0"

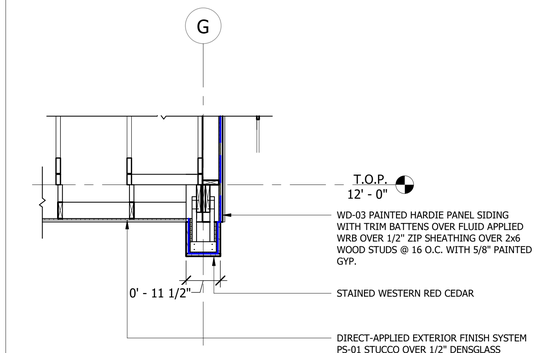


3 CORRIDOR FURR-DOWN
1/2" = 1'-0"

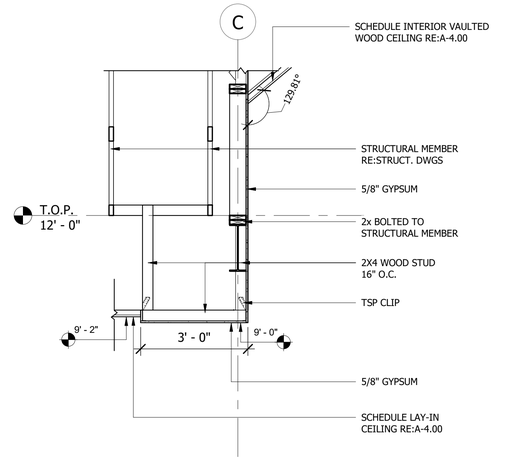
NOTE:
REF. STAINING AND INSTALLATION NOTES ON A-6.00



9 ENTRANCE VAULTED CEILING+ROOF ASSEMBLY
1 1/2" = 1'-0"

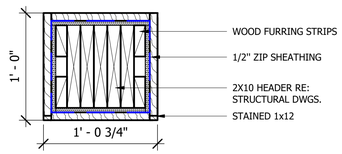


5 Detail 5
1/2" = 1'-0"

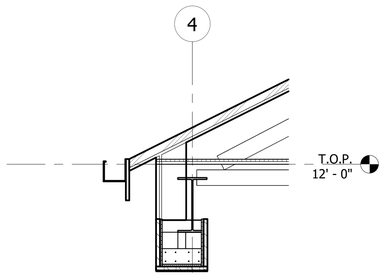


2 TELLER LINE FURR-DOWN
1/2" = 1'-0"

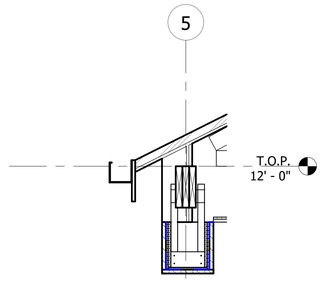
NOTE:
REF. STAINING AND INSTALLATION NOTES ON A-6.00



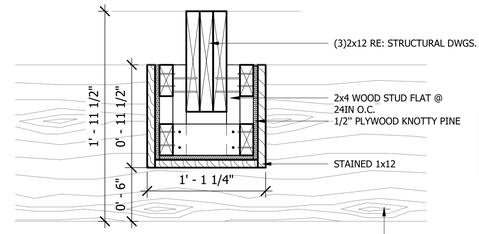
8 FAUX BEAM @ ENTRANCE VAULTED CEILING
1 1/2" = 1'-0"



7 TELLER DRIVE-THRU SOFFIT DETAIL
3/4" = 1'-0"



6 ATM DRIVE-THRU SOFFIT DETAIL
3/4" = 1'-0"



1 FAUX BEAM @ LOBBY VAULTED CEILING
1 1/2" = 1'-0"

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15810 PARK TEN PLACE, SUITE 300
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National Bank & Trust
264 FM 969 BLDG. 3
BASTROP, TX 78602

Project Number : 8989

	DATE
ISSUED FOR CLIENT APPROVAL	08.17.2026
ISSUED FOR BIDDING	09.11.2026
ISSUED FOR PERMIT	09.11.2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE
B	ADDENDUM B	09.25.26

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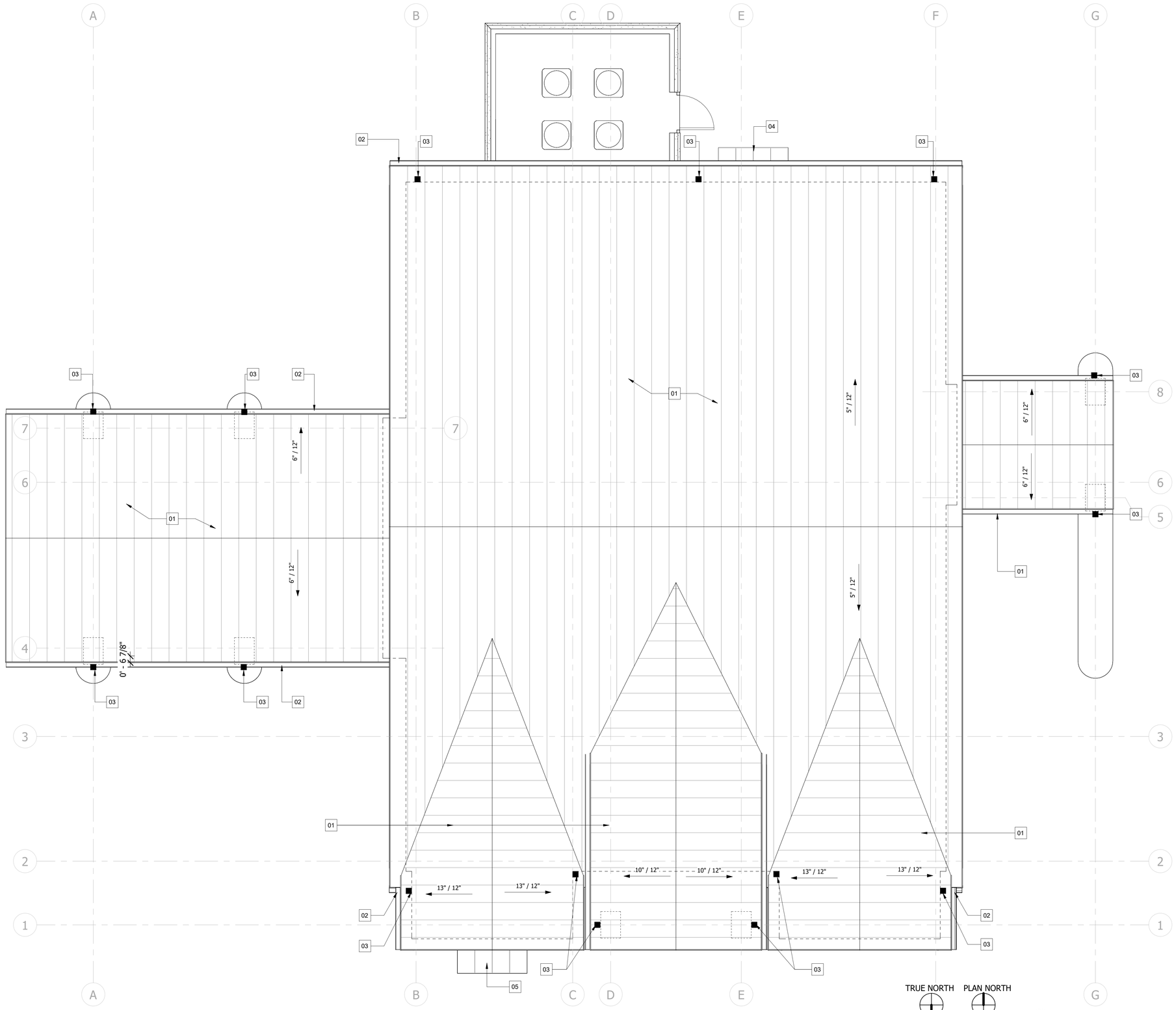
REGISTERED ARCHITECT THOMAS B. BAKER 14288 STATE OF TEXAS
09/25/26

DRAWING TITLE
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1 ROOF
1/4" = 1'-0"

GENERAL NOTES

1. NOTIFY ARCHITECT OF ANY DISCREPANCIES AND/OR OMISSIONS.

ROOF KEYNOTES	
NOTE NUMBER	NOTE TEXT
01	MR1- PREFINISHED STANDING SEAM METAL ROOF RE:A-6.00
02	NEW GUTTER. SQUARE PROFILE RE:A-6.00
03	4X4 DOWNSPOUT(TIE TO STORM). SQUARE DOWNSPOUT PROFILE RE:A-6.00
04	MR1- PREFINISHED STANDING SEAM METAL ROOF DOOR AWNING RE:A-6.00
05	MR1- PREFINISHED STANDING SEAM METAL ROOF WINDOW AWNING RE:A-6.00

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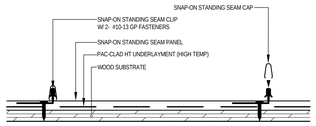
REGISTERED ARCHITECT
THOMAS B. TAYLOR
14288
STATE OF TEXAS
09/11/26

DRAWING TITLE
ROOF PLAN

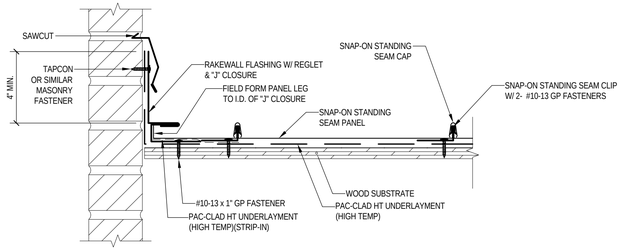
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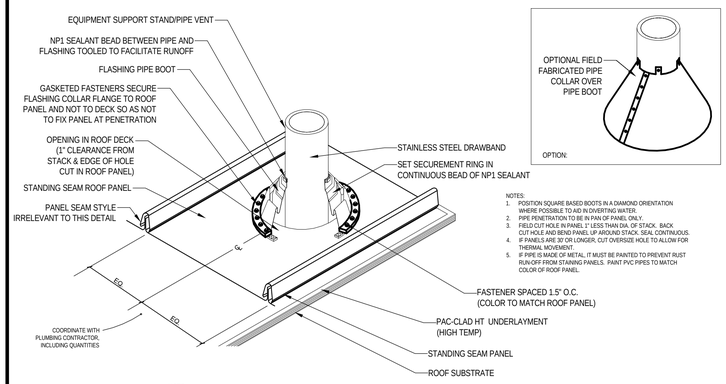
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4 SnapOn Standing Seam Wood Installation
3" = 1'-0"



3 SnapOn Standing Seam Wood Rakewall
3" = 1'-0"



8 SnapOn Standing Seam Wood Pipe Penetration
3" = 1'-0"

5 SnapOn Standing Seam Wood Gable J Channel Turn Down
3" = 1'-0"

2 SnapOn Standing Seam Wood Headwall
3" = 1'-0"

7 SnapOn Standing Seam Wood Valley Diverter
3" = 1'-0"

6 SnapOn Standing Seam Wood Vented Ridge
3" = 1'-0"

1 SnapOn Standing Seam Wood Gutter
3" = 1'-0"

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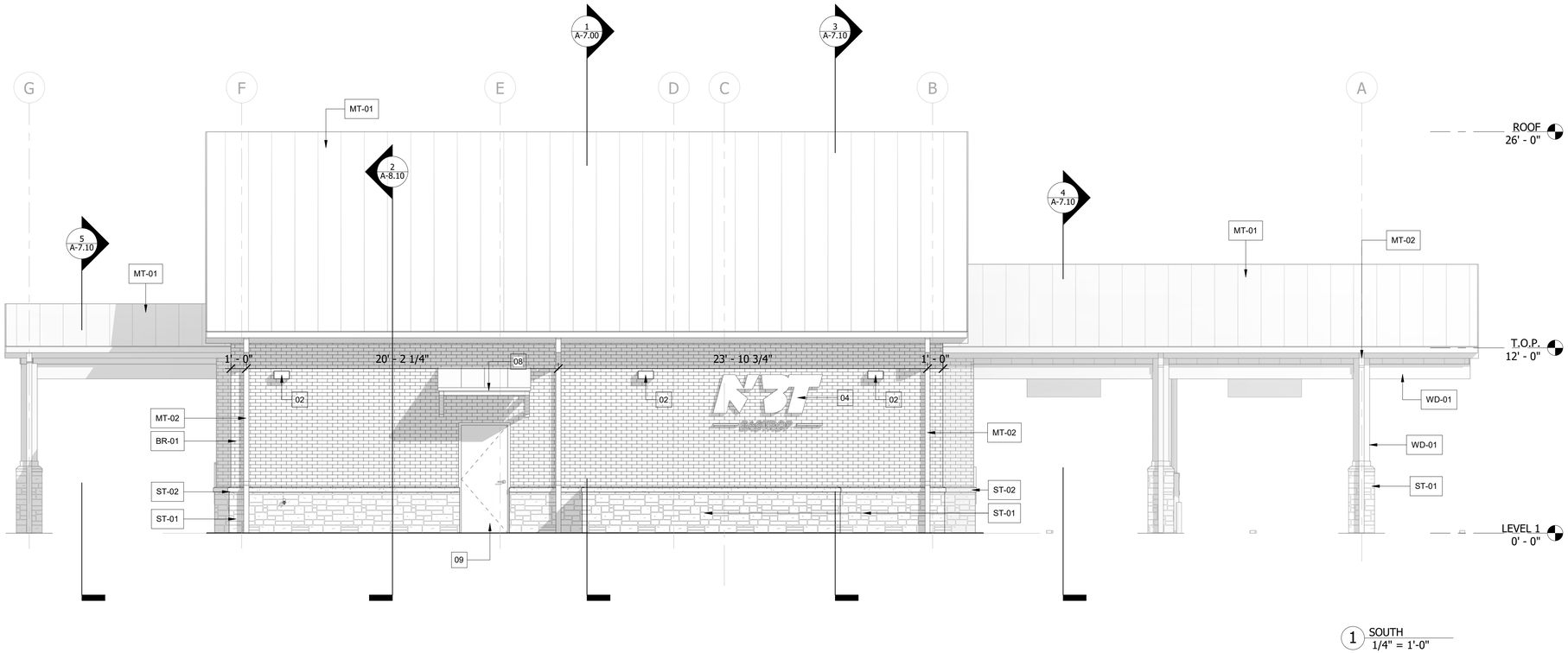
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14288
STATE OF TEXAS
09/11/26

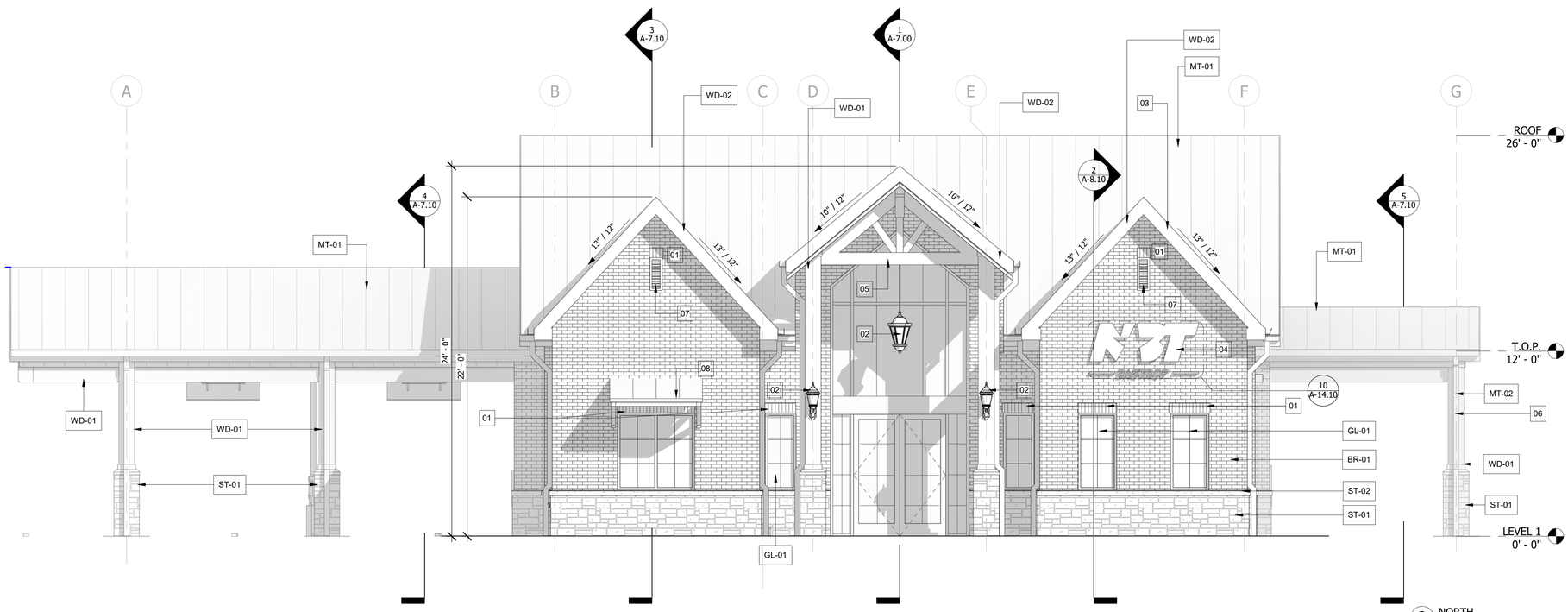
DRAWING TITLE
ROOF DETAILS

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1 SOUTH
1/4" = 1'-0"



2 NORTH
1/4" = 1'-0"

GENERAL NOTE:

FAUX EXTERIOR WOOD BEAM

1. Construct faux exterior wood beams with 2x4 wood framing sheathed with 1/2" pressure-treated plywood. Provide framing as required to produce straight, rigid and dimensionally consistent beam assemblies.
2. Clad all exposed faces with 1x12 Select Tight Knot (STK) Western Red Cedar with smooth exposed faces. Select boards for consistent appearance and free of excessive defects, warping, cupping or twisting.
3. Provide tight-fitting butt joints throughout. Fit and align cedar boards to create the appearance of a solid exterior wood beam.
4. Temporarily fasten cedar with stainless steel brad nails as required for alignment and holding during assembly.
5. Permanently fasten 1x12 cedar with #8 stainless steel trim-head exterior wood screws, two rows per board, spaced 16" O.C. maximum along the length of the board and within 2" of board ends. Locate screws approximately 1-1/2" to 2" from board edges. Fasten through plywood into 2x wood framing. Slightly countersink screw heads below the finished cedar surface to receive wood filler.
6. Fill exposed screw and fastener holes only with exterior-grade stainable wood filler specifically compatible with Western Red Cedar and the specified stain system. Sand filled areas flush without damaging the surrounding cedar surface.
7. NOTE: DO NOT FILL, CAULK, PUTTY OR OTHERWISE CONCEAL BUTT JOINTS BETWEEN CEDAR BOARDS. BUTT JOINTS SHALL REMAIN UNFILLED AND SHALL BE TIGHT-FITTING WITH ALL MATING EDGES AND END GRAIN STAINED PRIOR TO ASSEMBLY. FILL EXPOSED FASTENER HOLES ONLY.

STAIN SAMPLES AND MOCK-UP

1. Prior to fabrication of the finished beams, Painting Contractor shall prepare stain samples on individual planks of the actual Western Red Cedar specified for the project. Provide sufficient stain color variations as required for Architect's selection. Obtain Architect's approval of stain color prior to proceeding with the full beam mock-up.
2. Following stain color approval, Painting Contractor shall pre-stain the cedar materials to be used for the mock-up in accordance with the same procedures proposed for the finished work.
3. Carpenter shall provide one 18" long full-section beam mock-up constructed using the specified 2x4 framing, 1/2" pressure-treated plywood and cedar cladding. Mock-up shall demonstrate the actual proposed construction and include representative butt joints, stainless steel brad nails, #8 stainless steel trim-head screws, wood filler and all proposed fabrication methods.
4. Mock-up shall follow the same sequence proposed for the finished work, including pre-staining of cedar, field cutting, staining of cut edges and end grain, assembly, fastening, filling and sanding of exposed fastener holes, and final touch-up by Painting Contractor.
5. Painting Contractor shall fill exposed fastener holes in the completed mock-up using the proposed exterior-grade stainable wood filler and sand flush. Do not fill, caulk or putty butt joints.
6. Painting Contractor shall perform final stain touch-up of the mock-up as required to provide a uniform finished appearance.
7. Submit completed mock-up for Architect's final approval of cedar appearance, butt joints, fastener concealment, wood filler, stain color, finish and overall appearance prior to fabrication or installation of the remaining beam cladding.
8. Maintain approved mock-up on site throughout fabrication and installation as the standard for acceptance of the completed work.

STAINING AND INSTALLATION

1. Following approval of the completed mock-up, Painting Contractor shall pre-stain all cedar boards prior to installation, including faces, edges and end grain. Provide premium exterior penetrating semi-transparent stain specifically recommended for Western Red Cedar and suitable for exterior exposure. Apply in accordance with stain manufacturer's written requirements.
2. Painting Contractor shall provide Carpenter with the approved exterior stain for treatment of field-cut cedar.
3. Carpenter shall apply approved stain to all field-cut edges and end grain prior to installation and assembly. Allow field-applied stain to dry in accordance with stain manufacturer's requirements prior to final assembly.
4. Carpenter shall apply stain to freshly cut surfaces only. Protect pre-stained exposed faces from drips, runs, overlap or additional stain. Do not apply additional stain to pre-finished exposed faces. Immediately remove accidental stain from pre-finished surfaces in accordance with stain manufacturer's recommendations.
5. No raw or unfinished cedar shall be visible at completed joints. Staining of mating edges and end grain prior to assembly is intended to prevent unfinished wood from becoming visible due to normal future movement of the cedar.
6. Following installation, Painting Contractor shall fill and sand exposed fastener holes and perform final stain touch-up only as required to provide a uniform finished appearance consistent with the approved mock-up.
7. Do not apply additional stain to previously finished exposed surfaces unless required to achieve the approved appearance and permitted by the stain manufacturer. Avoid lap marks, darkened areas, drips, runs or other variations caused by overlapping stain applications.
8. Do not apply a separate clear sealer, polyurethane or other film-forming clear coat unless specifically approved by Architect.
9. Completed beams shall be straight and true, with tight and consistently aligned joints, uniform finish and the overall appearance of solid exterior wood beams.

EXTERIOR FINISH SCHEDULE		
TAG	ITEM	STYLE/COLOR
BR-01	MAINFIELD BRICK MORTAR: GR-01	MODULAR, TEXAS PATTERN: RUNNING BOND
GL-01	1" INSULATED GLAZING	SOLARBAN 60 (2) SOLARGRAY + CLEAR
GR-01	MORTAR/GROUT	ALMOND-N/VANILLA-N/KHAKI-S
GR-02	MORTAR/GROUT	SPECTRUM WHITE-N/S
MT-01	24 GA STEEL SNAP ON STANDING SEAM IN 18" WIDTHS WITH 1" HIGH SEAMS.	SLOPED TEE-PANEL: 18" WIDE WITH A 1" SEAM COLOR: WEATHERED GALVALUME.
MT-02	GUTTER & D.S.	KYNAR 500, DARK BRONZE
PS-01	STUCCO/PLASTER	COLOR:TBD
PT-01	EXTERIOR PAINT	COLOR:TBD
PT-02	EXTERIOR HOLLOW METAL DOOR & FRAME	KYNAR 500, DARK BRONZE
ST-01	FULL BED STONE VENEER MORTAR: GR-02	TEXAS CREAM PATTERN: ASHLAR MORTAR COLOR:
ST-02	CAST STONE - WATER TABLE MORTAR: GR-01	#40-KHAKI
WD-01	WESTERN RED CEDAR	STAIN: TBD
WD-02	1X10 HARDIE BOARD FASCIA	STAIN: TBD
WD-03	PAINTED HARDIE PANEL SIDING WITH TRIM BATTENS OR EQ.	SMOOTH PANEL SIDING WITH TRIM BATTENS PT-01

ELEVATION KEYNOTES	
NOTE NUMBER	NOTE TEXT
01	SOLDIER COURSE BR-01
02	EXTERIOR LIGHT FIXTURE RE: ELEC. DWGS
03	HARDIE BOARD FASCIA. COLOR TO MATCH STAINED RE: SCHEDULE
04	EXTERIOR BUILDING SIGNAGE RE: A-14.10
05	STRUCTURAL STEEL WRAPPED IN STAINED CEDAR
06	GUTTER AND DOWNSPOUT RE:SCHEDULE RE:02/A-5.00
07	DECORATIVE NON-FUNCTIONAL LOUVER VENT
08	MT-01 CANOPY WITH CEDAR STAINED WOOD BRACKETS
09	PAINTED HOLLOW METAL DOOR

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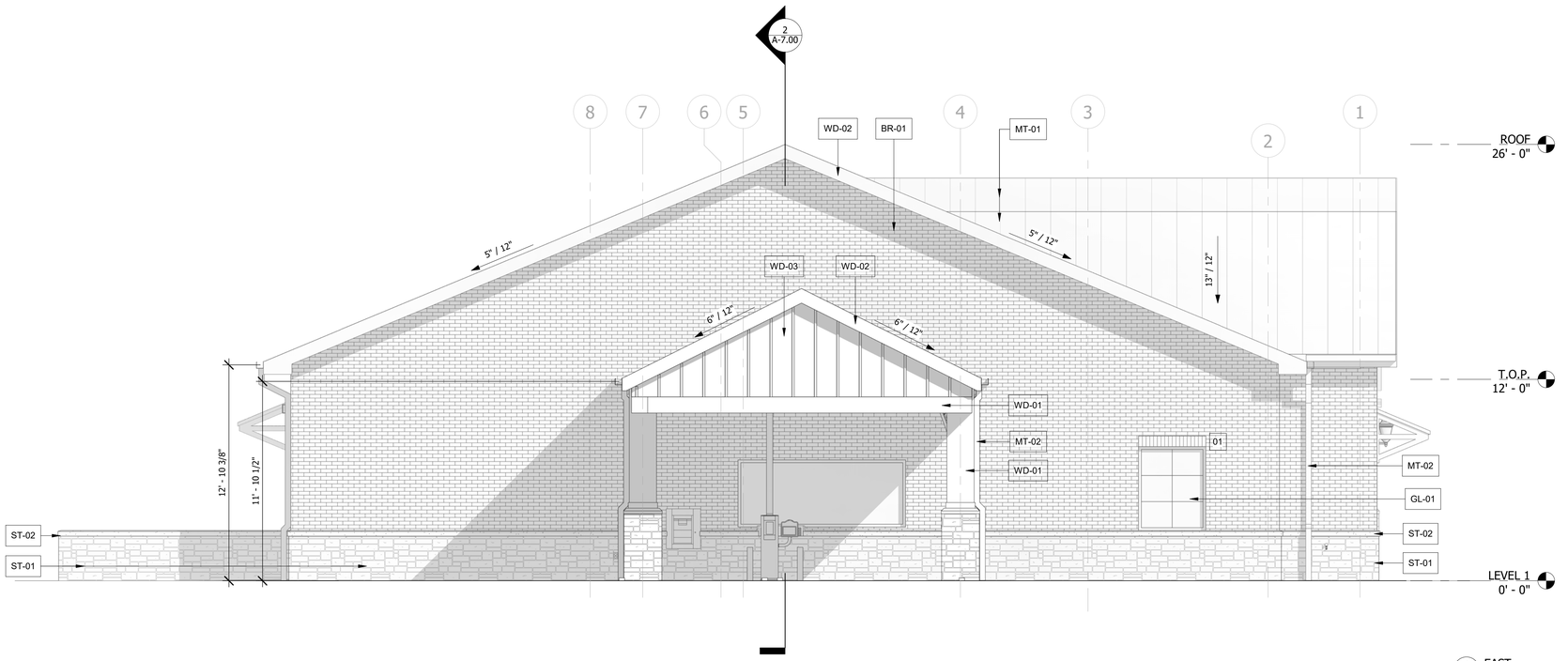
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THOMAS B. BAKER
14288
STATE OF TEXAS
09/11/26

DRAWING TITLE
EXTERIOR BUILDING ELEVATIONS

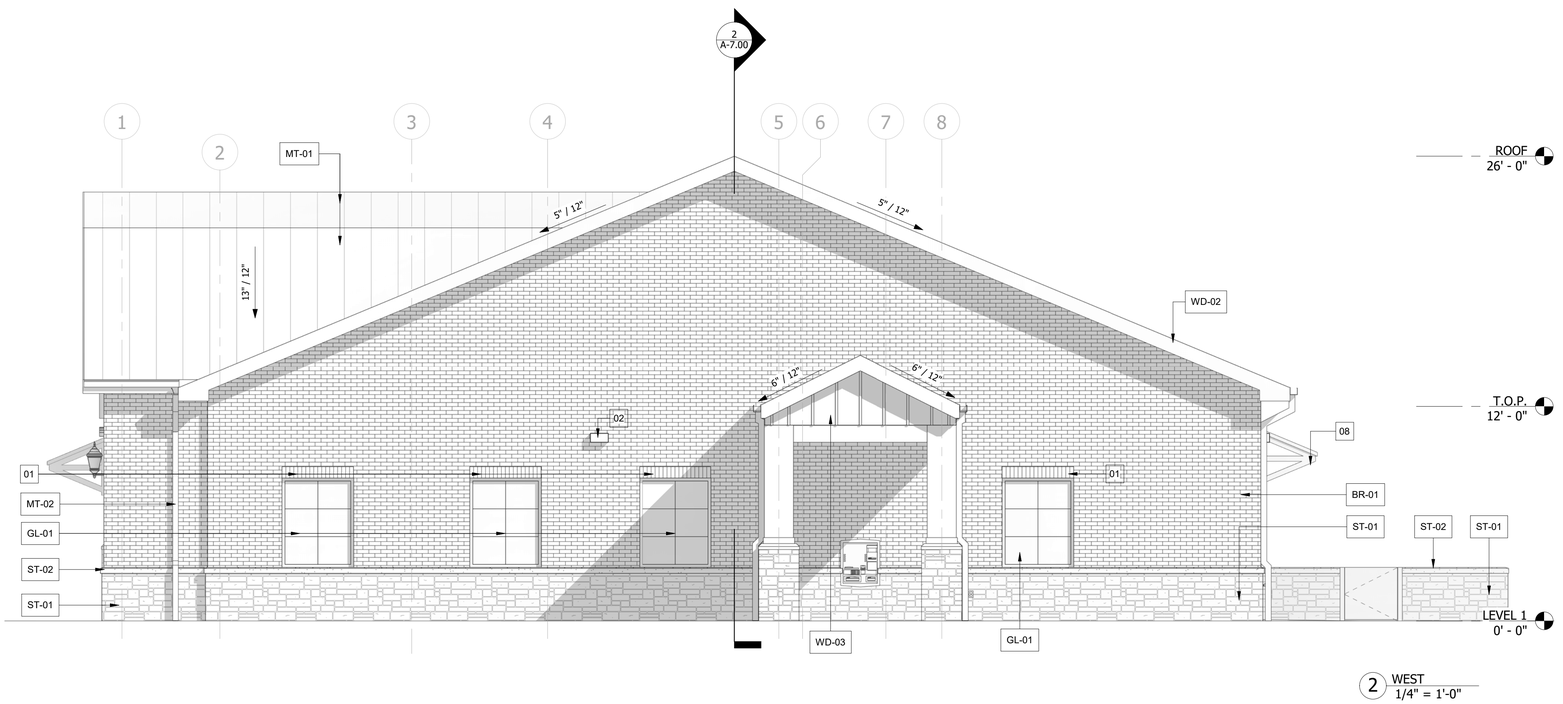
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1 EAST
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2 WEST
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EXTERIOR FINISH SCHEDULE		
TAG	ITEM	STYLE/COLOR
BR-01	MAINFIELD BRICK MORTAR: GR-01	MODULAR, TEXAS PATTERN: RUNNING BOND
GL-01	1" INSULATED GLAZING	SOLARBAN 60 (2) SOLARGRAY + CLEAR
GR-01	MORTAR/GROUT	ALMOND-N/VANILLA-N/KHAKI-S
GR-02	MORTAR/GROUT	SPECTRUM WHITE-N/S
MT-01	24 GA STEEL SNAP ON STANDING SEAM IN 18" WIDTHS WITH 1" HIGH SEAMS.	SLOPED TEE-PANEL: 18" WIDE WITH A 1" SEAM COLOR: WEATHERED GALVALUME.
MT-02	GUTTER & D.S.	KYNAR 500, DARK BRONZE
PS-01	STUCCO/PLASTER	COLOR:TBD
PT-01	EXTERIOR PAINT	COLOR:TBD
PT-02	EXTERIOR HOLLOW METAL DOOR & FRAME	KYNAR 500, DARK BRONZE
ST-01	FULL BED STONE VENEER MORTAR: GR-02	TEXAS CREAM PATTERN: ASHLAR MORTAR COLOR:
ST-02	CAST STONE - WATER TABLE MORTAR: GR-01	#40-KHAKI
WD-01	WESTERN RED CEDAR	STAIN: TBD
WD-02	1X10 HARDIE BOARD FASCIA	STAIN: TBD
WD-03	PAINTED HARDIE PANEL SIDING WITH TRIM BATTENS OR EQ.	SMOOTH PANEL SIDING WITH TRIM BATTENS PT-01

ELEVATION KEYNOTES	
NOTE NUMBER	NOTE TEXT
01	SOLDIER COURSE BR-01
02	EXTERIOR LIGHT FIXTURE RE: ELEC. DWGS
03	HARDIE BOARD FASCIA. COLOR TO MATCH STAINED RE: SCHEDULE
04	EXTERIOR BUILDING SIGNAGE RE: A-14.10
05	STRUCTURAL STEEL WRAPPED IN STAINED CEDAR
06	GUTTER AND DOWNSPOUT RE:SCHEDULE RE:02/A-5.00
07	DECORATIVE NON-FUNCTIONAL LOUVER VENT
08	MT-01 CANOPY WITH CEDAR STAINED WOOD BRACKETS
09	PAINTED HOLLOW METAL DOOR

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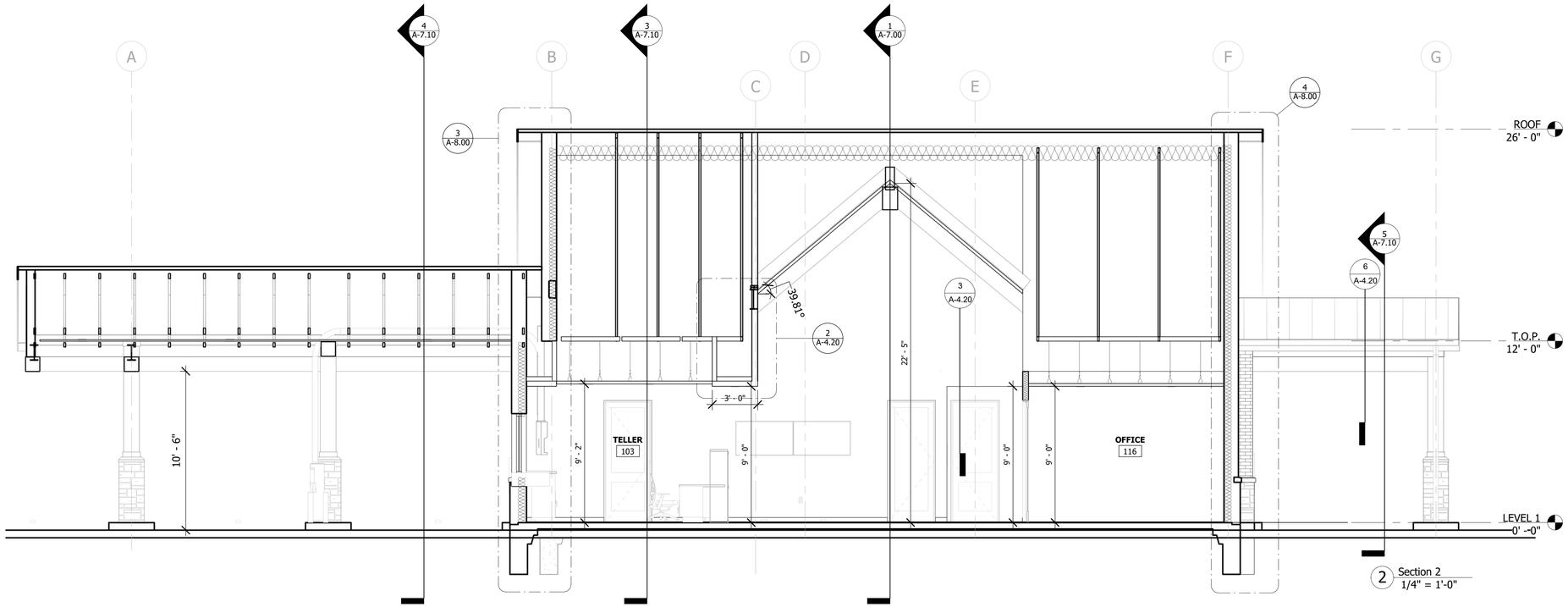
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REGISTERED ARCHITECT
THOMAS B. TAMPER
14288
STATE OF TEXAS
09/11/26

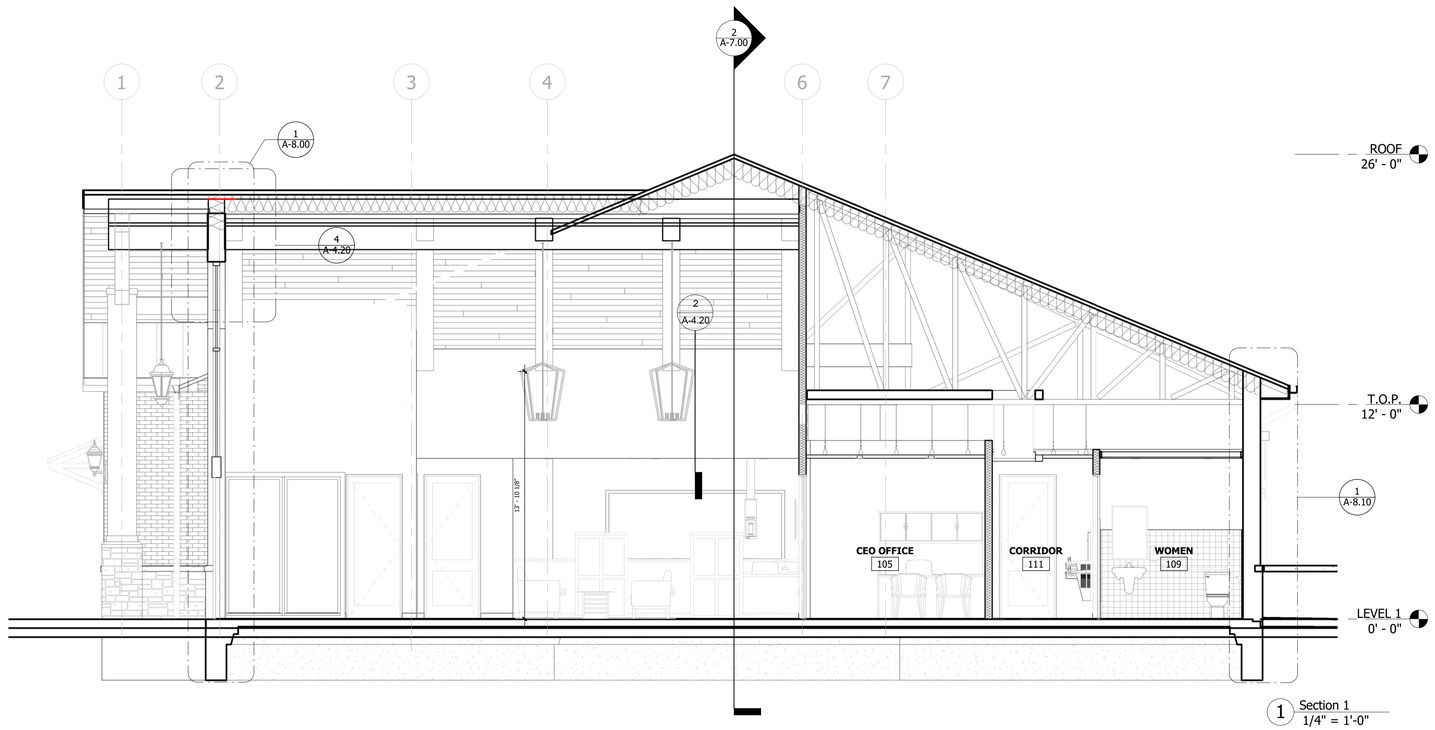
DRAWING TITLE
EXTERIOR BUILDING ELEVATIONS

DRAWN BY	RG	SHEET NO.
CHECKED BY	CA	A-6.10
APPROVED BY	TB	

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2 Section 2
1/4" = 1'-0"



1 Section 1
1/4" = 1'-0"

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264 FM 969 BLDG. 3
BASTROP, TX 78602

Project Number : 8989

	DATE
ISSUED FOR CLIENT APPROVAL	08.17.2026
ISSUED FOR BIDDING	09.11.2026
ISSUED FOR PERMIT	09.11.2026
ISSUED FOR CONSTRUCTION	

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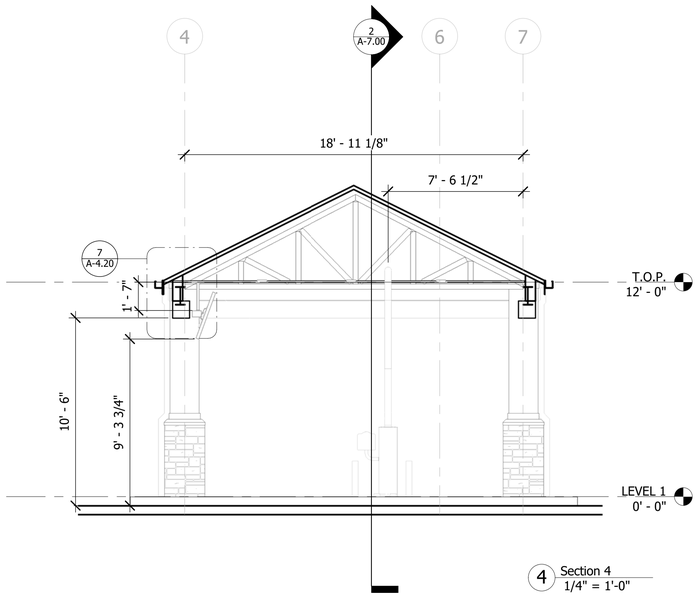
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THOMAS P. BAKER
14288
STATE OF TEXAS
09/11/26

DRAWING TITLE
BUILDING SECTIONS

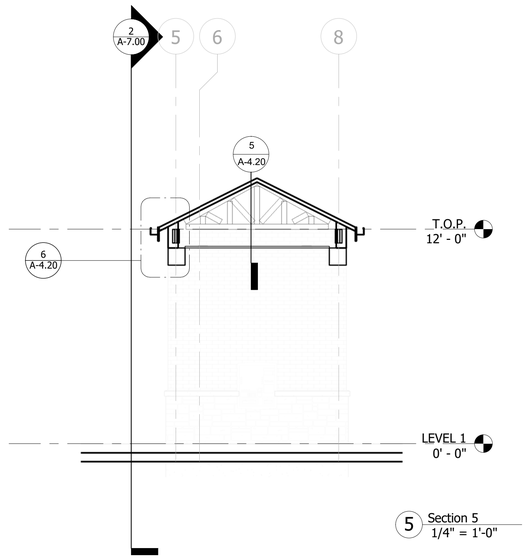
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CHECKED BY	CA
APPROVED BY	TB

SHEET NO.
A-7.00

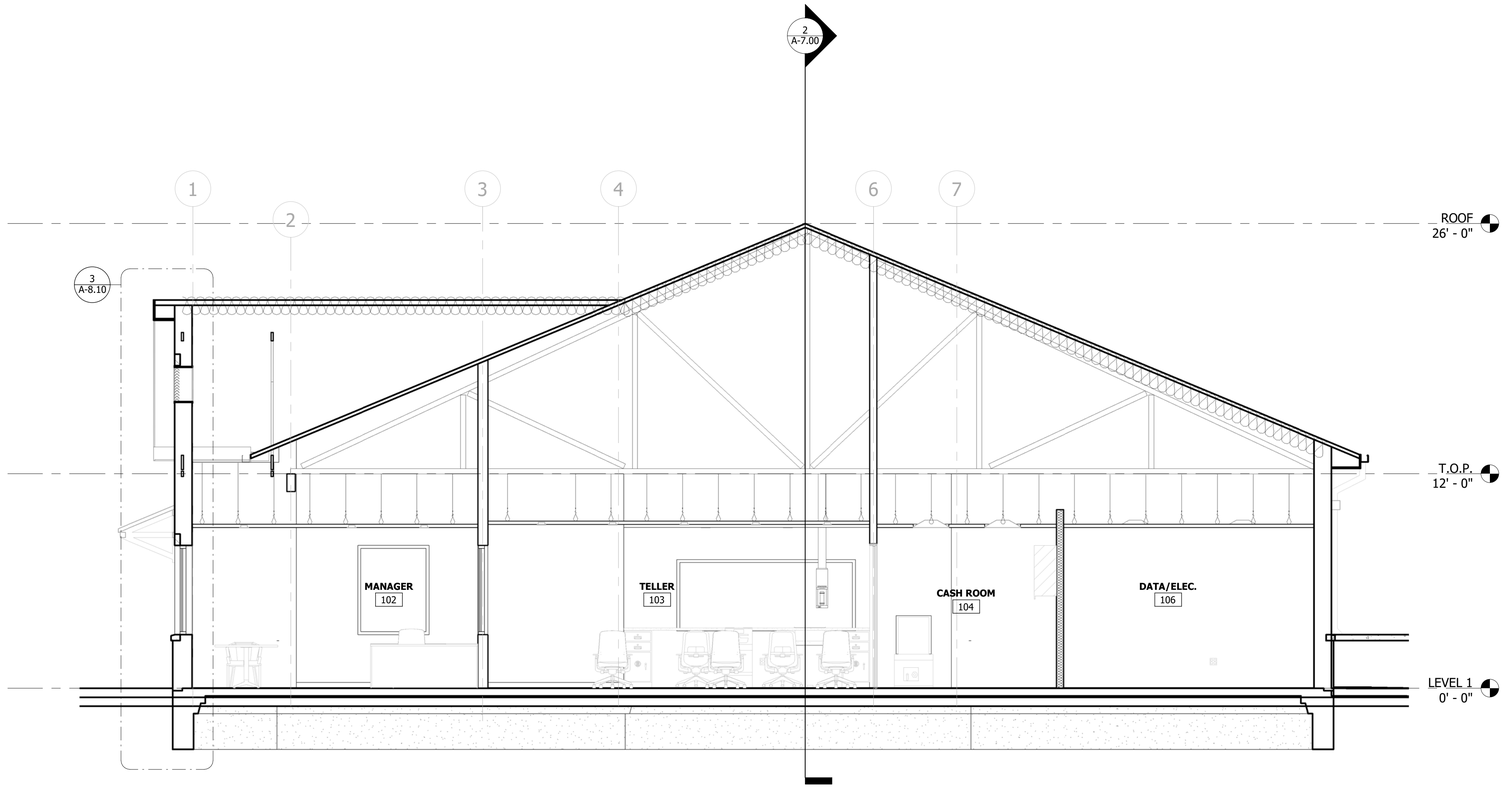
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4 Section 4
1/4" = 1'-0"



5 Section 5
1/4" = 1'-0"



3 Section 3
1/4" = 1'-0"

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Project Number : 8989

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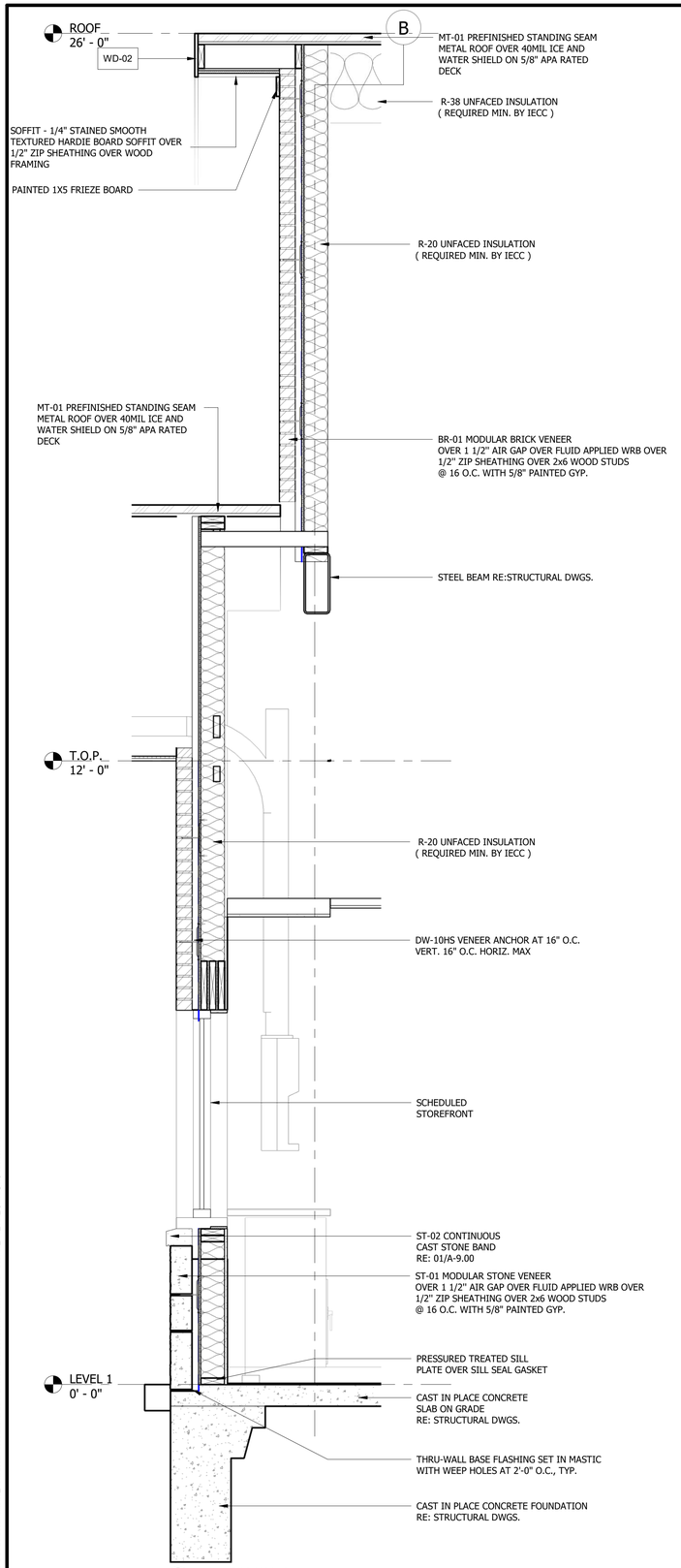
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REGISTERED ARCHITECT
THOMAS B. BAKER
14288
STATE OF TEXAS
09/11/26

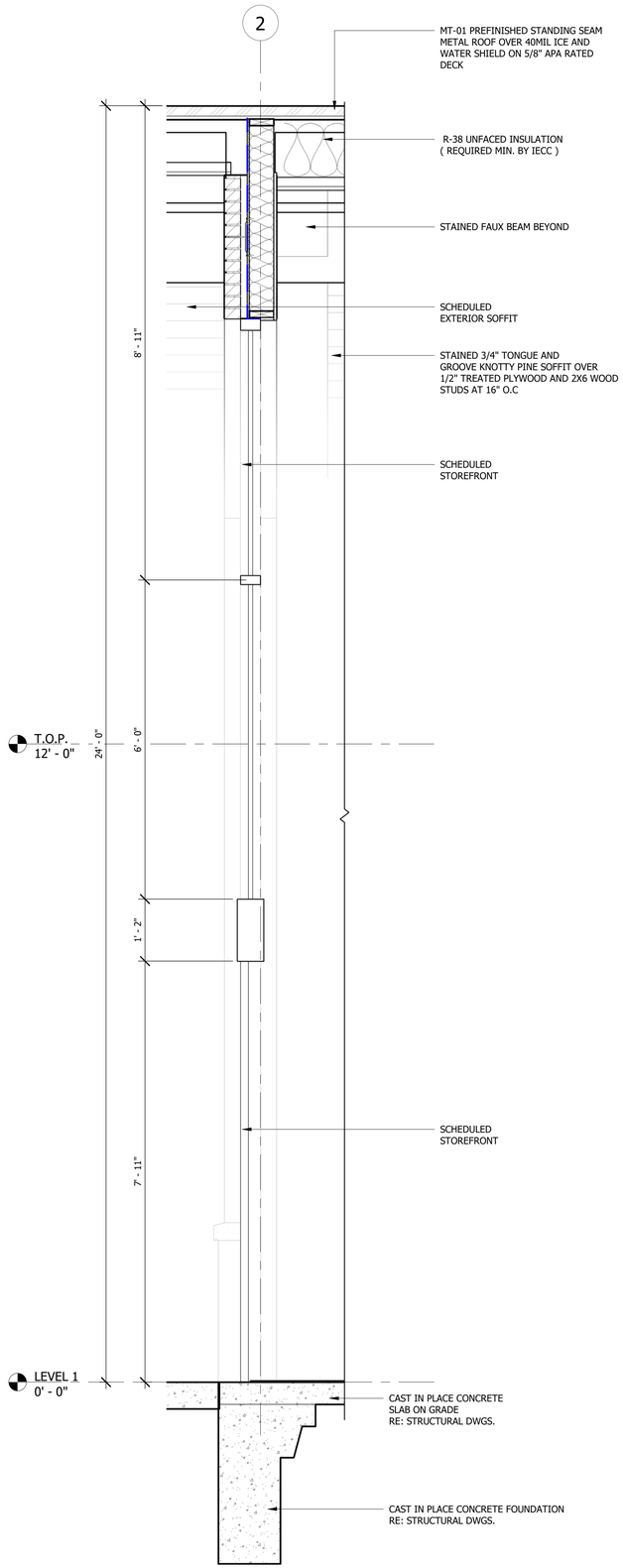
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BUILDING SECTIONS

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APPROVED BY	TB	

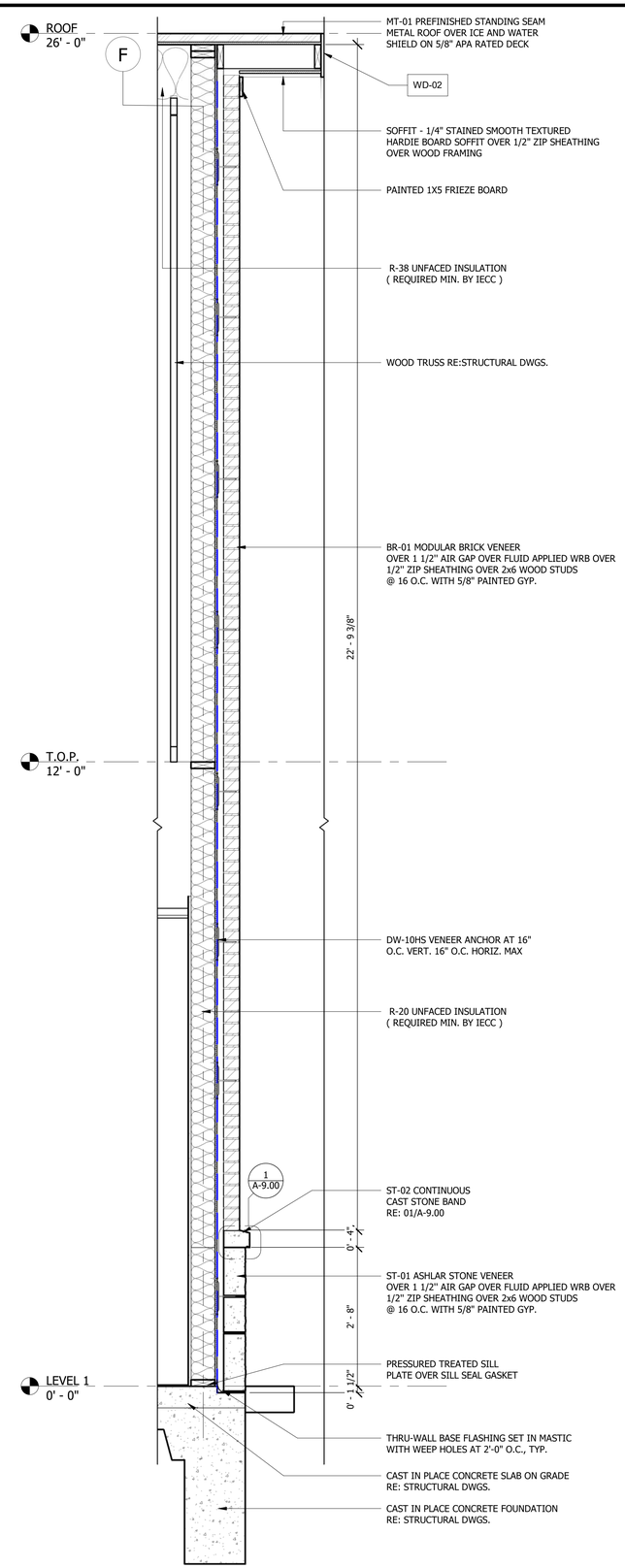
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3 WALL SECTION 3
3/4" = 1'-0"



1 WALL SECTION 2
3/4" = 1'-0"



4 WALL SECTION 1
3/4" = 1'-0"

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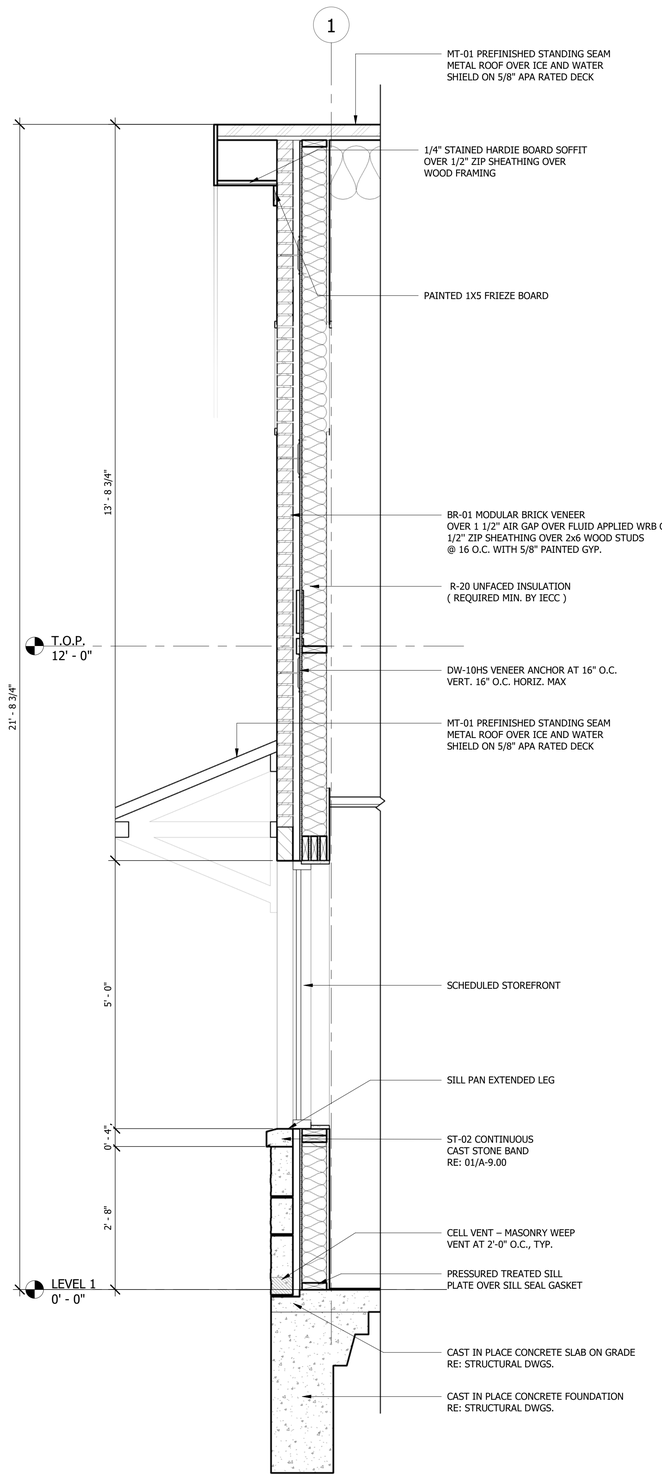
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REGISTERED ARCHITECT
ROMAN A. GARCIA
14288
STATE OF TEXAS
09/11/26

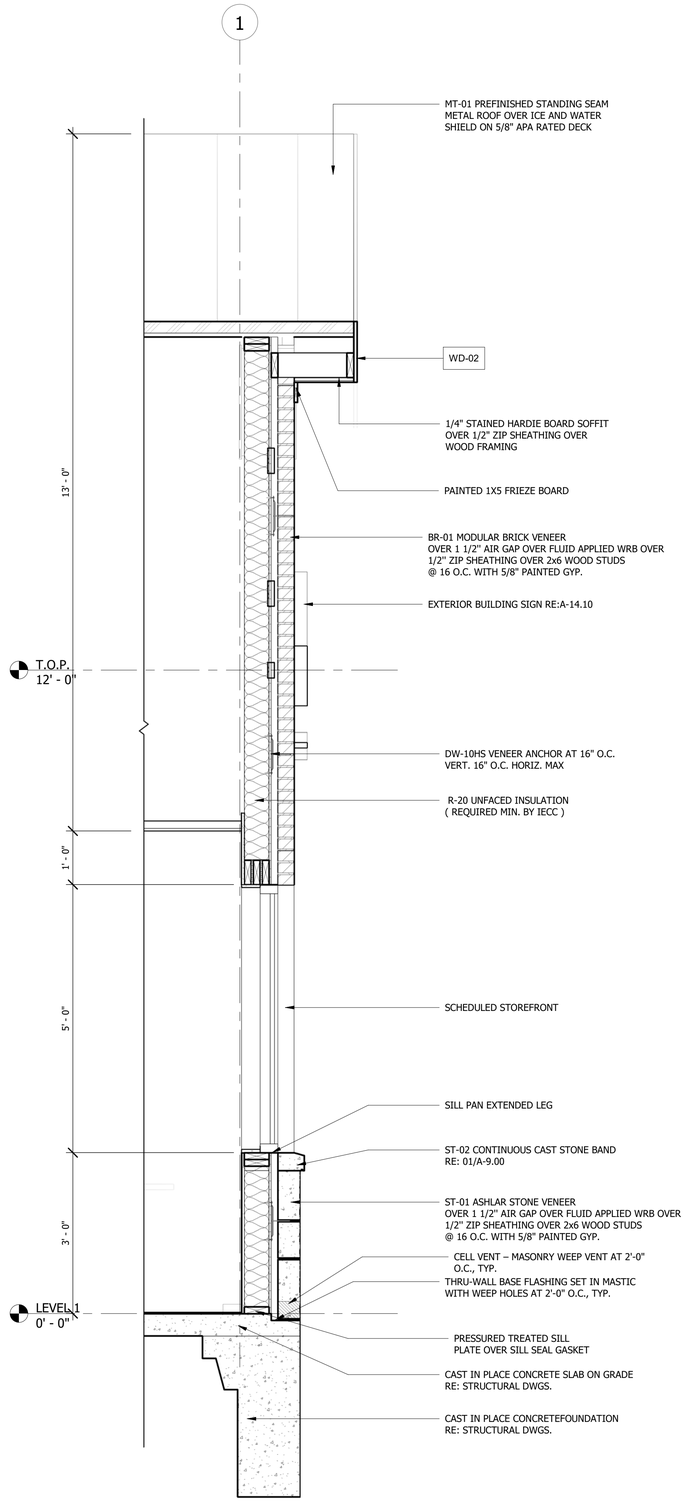
DRAWING TITLE
WALL SECTIONS

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APPROVED BY	TB	

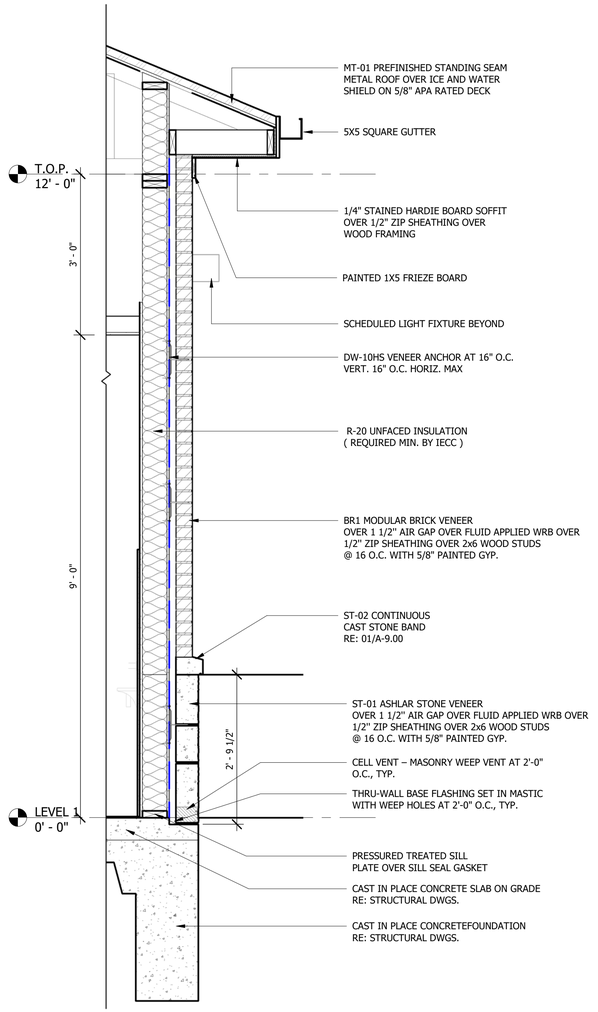
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3 WALL SECTION 6
3/4" = 1'-0"



2 WALL SECTION 5
3/4" = 1'-0"



1 WALL SECTION 4
3/4" = 1'-0"

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Project Number : 8989

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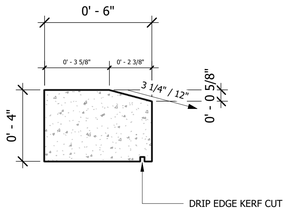


09/11/26

DRAWING TITLE
WALL SECTIONS

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APPROVED BY	TB	

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1 ST-02 - WATER TABLE
3" = 1'-0"

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REGISTERED ARCHITECT
THOMAS B. LANE
14288
STATE OF TEXAS
09/11/26

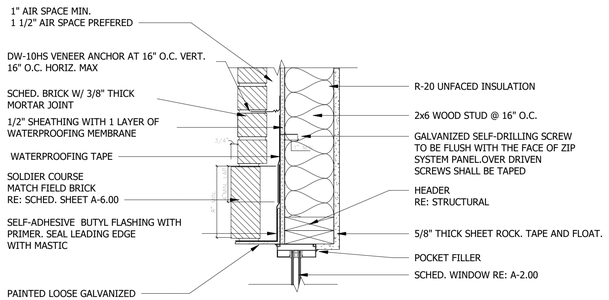
DRAWING TITLE
EXTERIOR TRIMS

DRAWN BY	RG
CHECKED BY	BL
APPROVED BY	TB

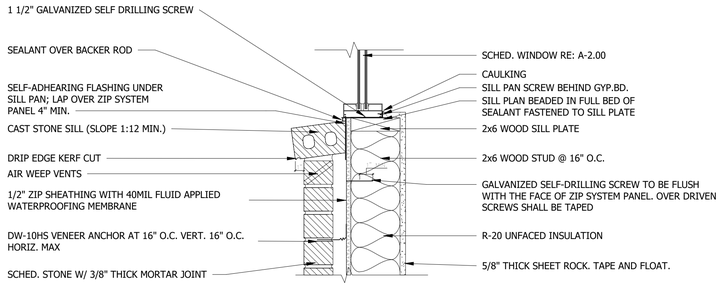
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A-9.00

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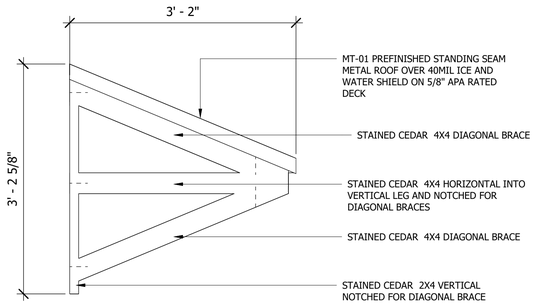
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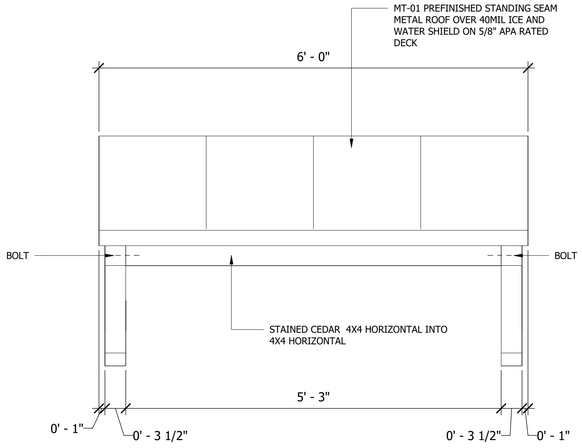


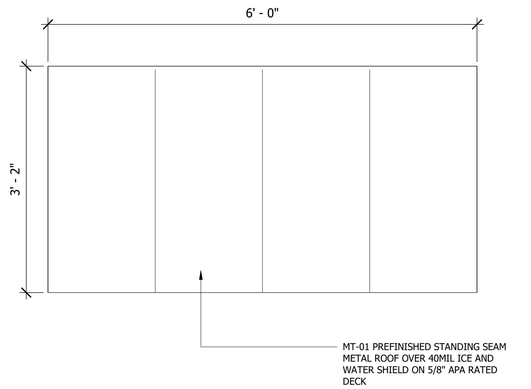
3 DETAIL AT WINDOW HEAD - BRICK
1 1/2" = 1'-0"



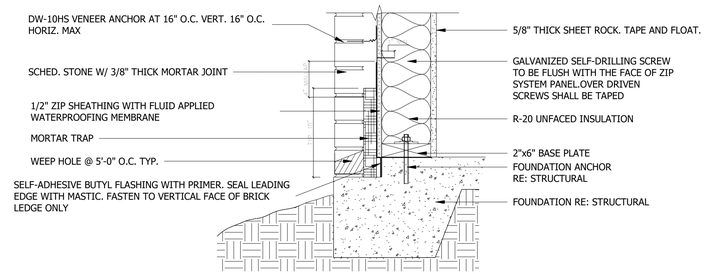
4 DETAIL AT WINDOW SILL - BRICK
1 1/2" = 1'-0"



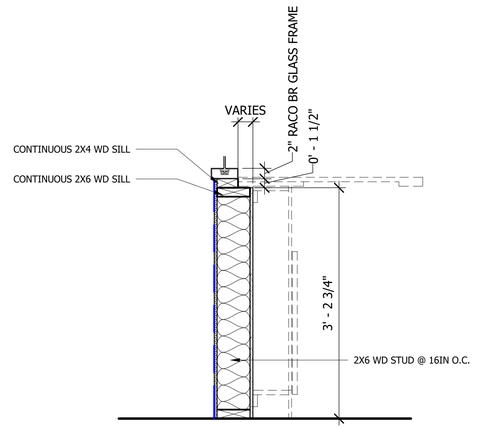




BUILDING AWNING
1" = 1'-0"



2 DETAIL AT FOUNDATION - BRICK
1 1/2" = 1'-0"



1 DRIVE THRU WINDOW DETAIL
1" = 1'-0"

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Project Number : 8989

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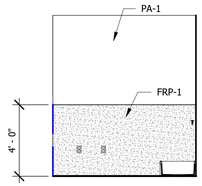


09/11/26

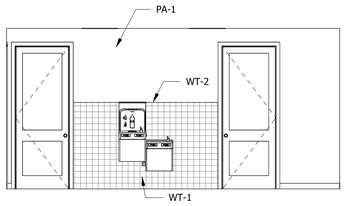
DRAWING TITLE
TYP. DETAILS

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CHECKED BY	BL	A-9.10
APPROVED BY	TB	

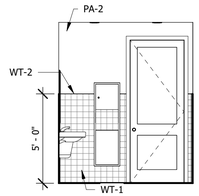
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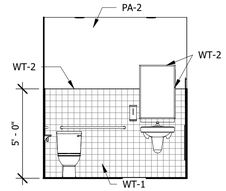
15 JANITOR
1/4" = 1'-0"



14 HALLWAY
1/4" = 1'-0"

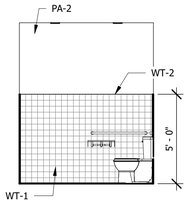


13 MENS S
1/4" = 1'-0"

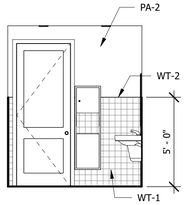


*DO NOT TILE BEHIND MIRROR

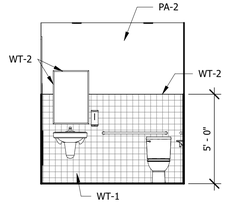
12 MENS E
1/4" = 1'-0"



11 MENS N
1/4" = 1'-0"

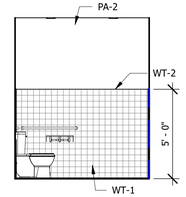


10 WOMENS S
1/4" = 1'-0"

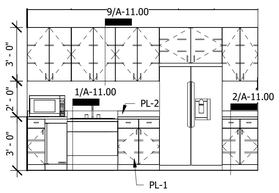


*DO NOT TILE BEHIND MIRROR

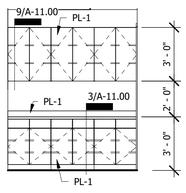
9 WOMENS W
1/4" = 1'-0"



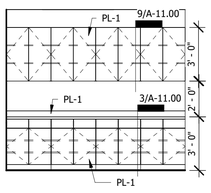
8 WOMENS N
1/4" = 1'-0"



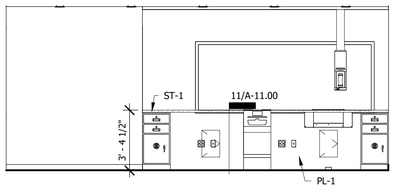
7 BREAK ROOM
1/4" = 1'-0"



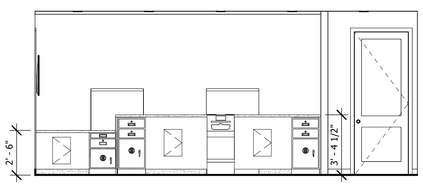
6 WORK ROOM
1/4" = 1'-0"



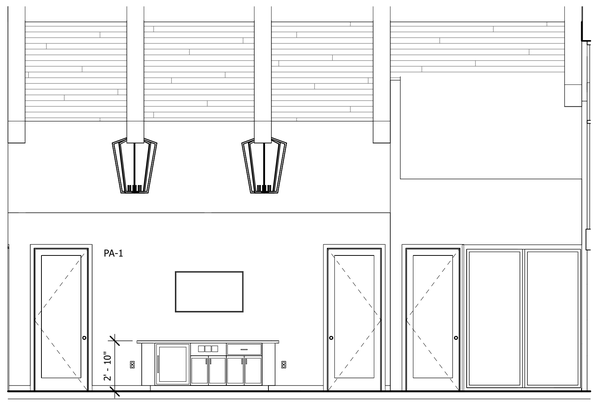
5 CASH ROOM
1/4" = 1'-0"



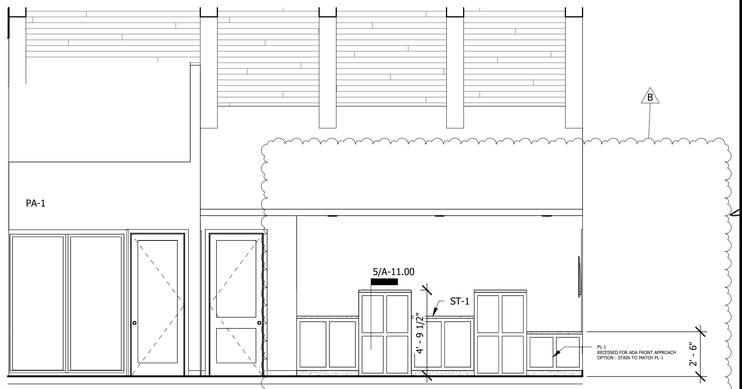
4 DRIVE THRU TELLERS
1/4" = 1'-0"



3 TELLER SIDE
1/4" = 1'-0"



2 LOBBY & COFFEE BAR
1/4" = 1'-0"



1 LOBBY & TELLER
1/4" = 1'-0"

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National Bank & Trust

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264 FM 969 BLDG. 3
BASTROP, TX 78602

Project Number : 8989

ISSUED FOR	DATE
ISSUED FOR CLIENT APPROVAL	08.17.2026
ISSUED FOR BIDDING	09.11.2026
ISSUED FOR PERMIT	09.11.2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE
B	ADDENDUM B	09.23.26

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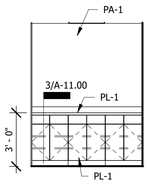
REGISTERED ARCHITECT
THOMAS B. HUGHES
14288
STATE OF TEXAS
09/11/26

DRAWING TITLE
INTERIOR ELEVATIONS

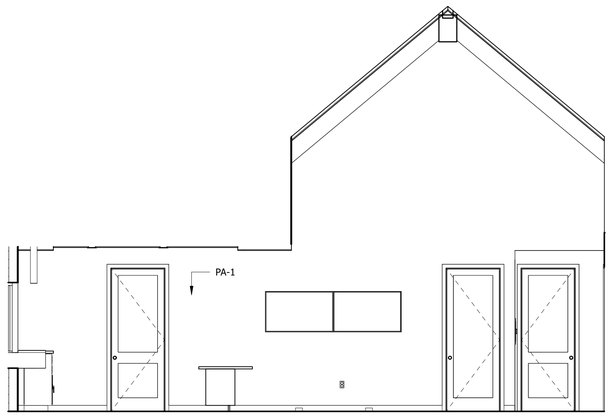
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CHECKED BY	BH	A-10.00
APPROVED BY	BH	

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2 ATM Room
1/4" = 1'-0"



1 1 - a
1/4" = 1'-0"

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BASTROP, TX 78602

Project Number : 8989

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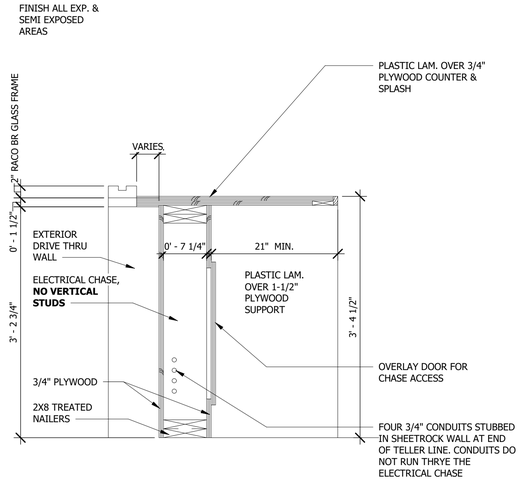
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REGISTERED ARCHITECT
THOMAS R. TURNER
14288
STATE OF TEXAS
09/11/26

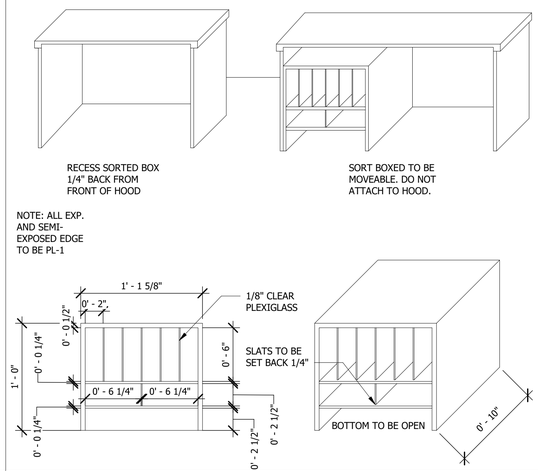
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CHECKED BY	BH	A-10.01
APPROVED BY	BH	

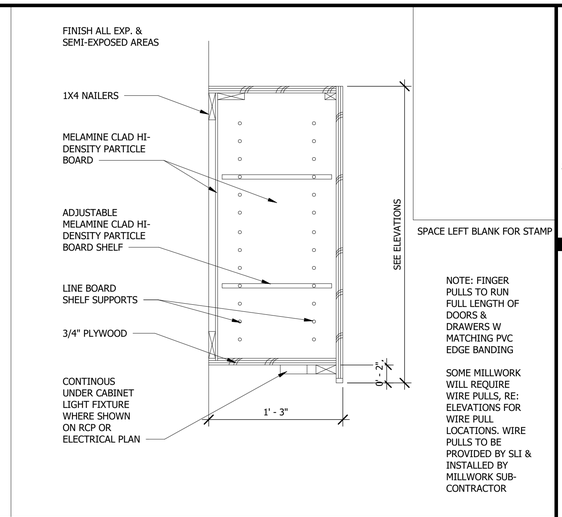
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11 DRIVE THRU TELLER AT WINDOW
1" = 1'-0"



10 SORTER BOX
1 1/2" = 1'-0"



9 UPPER CABINET
1 1/2" = 1'-0"

8 TELLER LINE CABINET
1" = 1'-0"

7 DRIVE THRU TELLER
1" = 1'-0"

6 TELLER CABINET W CHASE
1" = 1'-0"

5 TELLER LINE SECTION
1" = 1'-0"

4 TYPICAL COUNTER
1" = 1'-0"

3 BASE CABINET W DRAWER
1" = 1'-0"

2 BASE CABINET
1" = 1'-0"

1 ADA SINK PANEL
1" = 1'-0"

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MILLWORK DETAILS

DRAWN BY Author
CHECKED BY Checker
APPROVED BY Approver
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FLOORING MATERIAL LEGEND

CODE	MFG	SERIES	COLOR	ITEM #	SIZE	NOTES	FLAME SPREAD & SMOKE DEVELOP INDEX
LVT-1	Mannington	Lorington	Carver	L555-4014	18" X 36"		CLASS I PER IBC 2015 SECTION 804.4.1,2
WF-1	Artisan Hardwood	Canyon Estate	Birch Truffle	CBH5T	5"x48"		CLASS I PER IBC 2015 SECTION 804.4.1,2

B

BASE MATERIAL LEGEND

CODE	MFG	SERIES	COLOR	ITEM #	SIZE	NOTES	FLAME SPREAD & SMOKE DEVELOP INDEX
RB-1	ROPPE	CONTOURS		FASHION #85		COIL MATERIAL	CLASS I PER IBC 2015 SECTION 804.4.1,2
WB-1	Masons		Stained to Match WF-1	MC-1337	1/5" x 6"		CLASS I PER IBC 2015 SECTION 804.4.1,2

WALL MATERIAL LEGEND

CODE	MFG	SERIES	COLOR	ITEM #	SIZE	NOTES	FLAME SPREAD & SMOKE DEVELOP INDEX
FRP-1			White				CLASS A PER IBC 2015 SECTION 803.9
GR-1	Mapei	Flexcolor CQ	Deep Ocean	5231			CLASS A PER IBC 2015 SECTION 803.9
PA-1	Sherwin Williams		Natural Linen	SW-9109		Finish: Eggshell	CLASS A PER IBC 2015 SECTION 803.9
PA-2	Benjamin Moore		Pale Oak	OC-20		Finish: Eggshell	CLASS A PER IBC 2015 SECTION 803.9
WT-1	MARAZZI	ZELLIGE NEO	CHINA				CLASS A PER IBC 2015 SECTION 803.9
WT-2	SCHLUTER	JOLLY					CLASS A PER IBC 2015 SECTION 803.9

PLASTIC LAMINATE MATERIAL LEGEND

CODE	MFG	SERIES	COLOR	ITEM #	SIZE	NOTES	FLAME SPREAD & SMOKE DEVELOP INDEX
PL-1	Wilosnart		Pallisades Oak	7987-38			
PL-2	Wilosnart		Aluma Marble	5067K-60			

SOLID SURFACE MATERIAL LEGEND

CODE	MFG	SERIES	COLOR	ITEM #	SIZE	NOTES	FLAME SPREAD & SMOKE DEVELOP INDEX
ST-1	Cambria		Wyncrest				

WINDOW COVERING SCHEDULE

CODE	TYPE	MFG	MODEL #	ITEM #	FINISH	ROOMS
RS-1	Crosshatch R White/Linen 1% Openness	SWF Contract	R100	R100-C7911	Dark Bronze Fascia	All Exterior Windows U.N.O.

B

APPLIANCE SCHEDULE

CODE	TYPE	MFG	MODEL #	ITEM #	FINISH	ROOMS	QTY
AP-1	REFRIGERATOR	Kitchen Aid	KRFF577KPS	6534858			1
AP-2	Ice Maker	By Owner					1
AP-3	Microwave	GE	JVM3160RFSS				1

RESTROOM ACCESSORIES

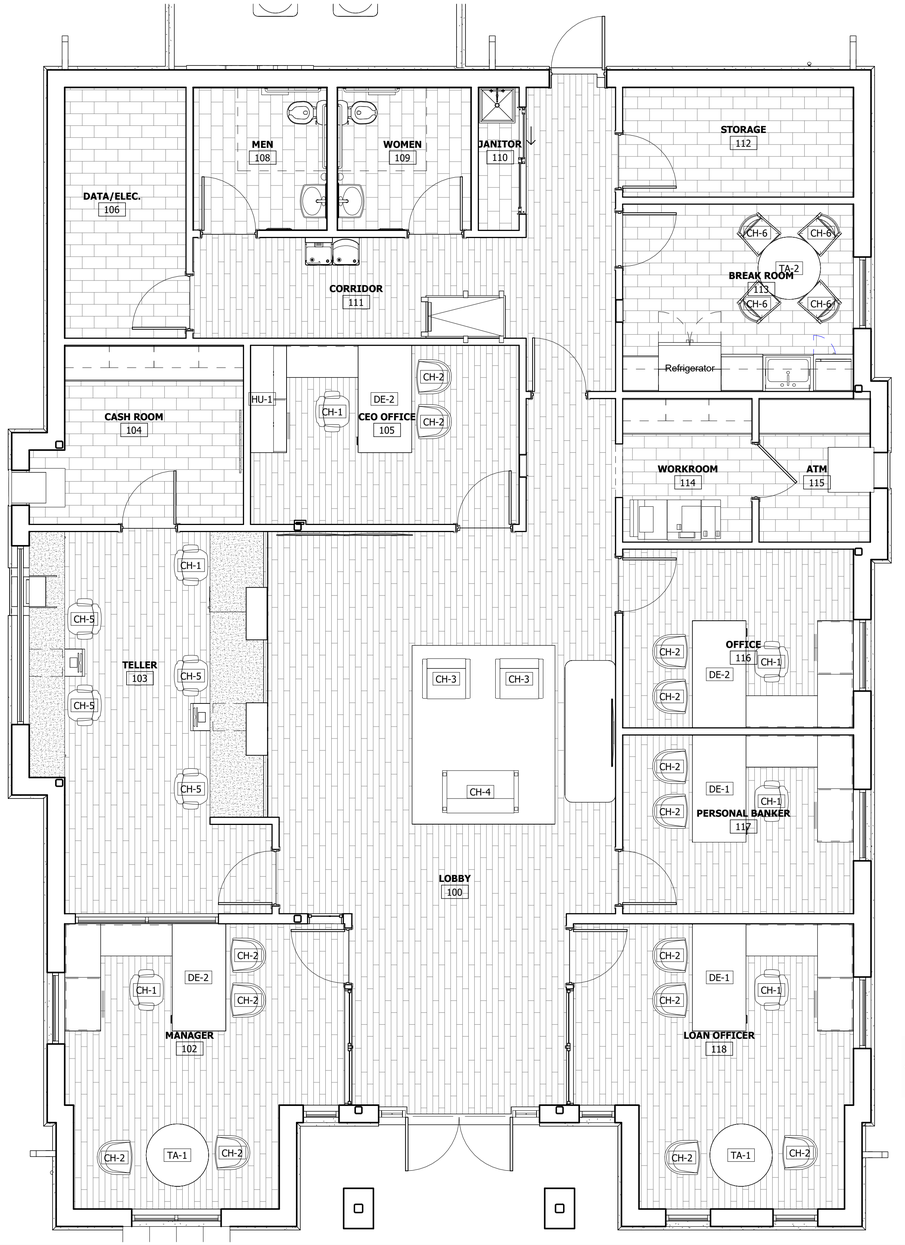
NO.	MFG	DESCRIPTION	ITEM #	QTY
RA-1	American Specialties Inc.	Shelf w/ Double Toilet Tissue Holder Stainless Steel - Surface Mounted (0697-GAL)	0697-GAL	2
RA-2&3	American Specialties Inc.	36" AND 42" RESTROOM ADA GRAB BAR	3800-36, 3800-42	2
RA-4	American Specialties Inc.	Auto Soap Dispenser - Liquid - Battery - Matte Black Stainless Steel - 30 oz. - Surface Mounted (0362-41)	0362-41	2
RA-5	American Specialties Inc.	Traditional™ - Paper Towel Dispenser & Waste Receptacle - Multi, C-Fold - 12 gal. - Recessed (04697)	4697	2

GENERAL NOTES

NO.	DESCRIPTION
1	SUBMIT A 12"X12" SAMPLE OF 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; CERAMIN 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 TRANSITIONA STRIP 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
10	ANY REMAINING MATERIAL TO BE GIVEN TO CLIENT AS ATTIC STOCK
11	WALKING SURFACES ALONG PATH OF EGRESS SHALL BE NON-SLIP AND ADHERED SECURELY PER IBC 2015 SECTION 1003.4
12	

ROOM FINISH SCHEDULE

NO.	ROOM	FLOOR	BASE	WALL ►	WALL ▲	WALL ◄	WALL ▼	CEILING
100	LOBBY	WF-1	WB-1	PA-1	PA-1	PA-1	PA-1	
102	MANAGER	WF-1	WB-1	PA-1	PA-1	PA-1	PA-1	
103	TELLER	WF-1	WB-1	PA-1	PA-1	PA-1	PA-1	
104	CASH ROOM	LVT-1	RB-1	PA-1	PA-1	PA-1	PA-1	
105	CEO OFFICE	WF-1	WB-1	PA-1	PA-1	PA-1	PA-1	
106	DATA/ELEC.	LVT-1	RB-1	PA-1	PA-1	PA-1	PA-1	
108	MEN	LVT-1	N/A	WT-1/PA-2	WT-1/PA-2	WT-1/PA-2	WT-1/PA-2	
109	WOMEN	LVT-1	N/A	WT-1/PA-2	WT-1/PA-2	WT-1/PA-2	WT-1/PA-2	
110	JANITOR	LVT-1	RB-1	PA-1	FRP-1/PA-1	FRP-1/PA-1	PA-1	
111	CORRIDOR	WF-1	WB-1	PA-1	WT-1/PA-1	PA-1	PA-1	
112	STORAGE	LVT-1	RB-1	PA-1	PA-1	PA-1	PA-1	
113	BREAK ROOM	LVT-1	RB-1	PA-1	PA-1	PA-1	PA-1	
114	WORKROOM	LVT-1	RB-1	PA-1	PA-1	PA-1	PA-1	
115	ATM	LVT-1	RB-1	PA-1	PA-1	PA-1	PA-1	
116	OFFICE	WF-1	WB-1	PA-1	PA-1	PA-1	PA-1	
117	PERSONAL BANKER	WF-1	WB-1	PA-1	PA-1	PA-1	PA-1	
118	LOAN OFFICER	WF-1	WB-1	PA-1	PA-1	PA-1	PA-1	



1 LEVEL 1 - FINISH PLAN
1/4" = 1'-0"

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09/11/26

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FINISHED FLOOR

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CHECKED BY	BH
APPROVED BY	BH

SHEET NO. A-12.00

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AMERICAN SPECIALTIES, INC.
441 Saw Mill River Road, Yonkers, NY 10701 (914) 476.9000 • (914) 476.0688
www.americanspecialties.com

MODEL №:	0362
ISSUED:	FEB 2007
REVISED:	26 NOV 2021

SURFACE MOUNTED STAINLESS STEEL AUTOMATIC LIQUID SOAP AND GEL HAND SANITIZER DISPENSER

SPECIFICATION

Surface Mounted Stainless Steel Automatic Liquid Soap and Gel Hand Sanitizer Dispenser shall hold and dispense liquid soap or gel hand sanitizers having a pH in range 7 ± 1.5 and soaps or lotions only having viscosity in range 100-5k cP (mm^2/s [mPa•s]) or gel sanitizers having viscosities in range 3.5k - 5k cP (mm^2/s [mPa•s]) and a capacity of 27 oz [.8 L] using the refillable soap tank provided or disposable 27 oz [800 ml] bag-in-a-box format. Dispenser body shall be fabricated of alloy 18-8 stainless steel, type 304 with black high-impact ABS plastic top door, bottom plate and concealed gray high-impact ABS plastic back plate comprising a swing-open body secured with a top mounted lock which is opened with special barrel security key provided. All exposed stainless steel surfaces shall be either satin finish or matte black (add suffix –41). Dispenser shall be powered by four (4) AA-size (1.5 V) batteries (not supplied) and shall operate automatically from IR sensor that shall activate soap dispensing when hands are placed in sensor zone. Adjustable sensor detection range shall be preset at 2-3/8" [60] ± 1-1/2" [38]. An indicator LED shall provide status notification of battery condition and user sensor detection. Unit shall dispense a volume of .03 fl oz to .037 fl oz (1 ml to 1.1 ml) of soap or gel during each activation. A tamper resistant soap level-viewing window shall be provided. An Owner's Manual and Installation Guide (OM & IG) shall be provided with unit in carton.

Surface Mounted Stainless Steel Automatic Liquid Soap and Gel Hand Sanitizer Dispenser shall be Model № 0362 (add –41 for matte black) of American Specialties, Inc., 441 Saw Mill River Road, Yonkers, New York 10701-4913

INSTALLATION

Surface mount unit to wall or partition with four (4) № 6 x 15/16" [M3.5 x 24] pan head self-threading pan head or flat head screws (supplied) into dry wall anchors (provided) through concealed mounting holes provided. Alternatively, unit may be installed on stand (Model № FS-0300) with hardware supplied with stand. Recommended installation height for general utility is 42" [1067] to 46" [1168] AFF to bottom of unit. For compliance with 2010 ADA Accessibility Standards install unit so that bottom of unit is no higher than 48" [1219] MAX AFF. Mount unit with bottom 7-7/8" [200] minimum above non-metallic washbasins or countertops and 11-13/16" [300] above stainless steel washbasins or countertops. OM & IG (№ 0610241228) and a MT (№ 0610160837) are provided with unit in carton.

OPERATION

Soap or gel sanitizer is automatically dispensed when hands are placed in sensor zone. Unit is reloaded by unlocking lock with special key (supplied), swinging open dispenser body and removing and refilling tank or replacing disposable internal container. Dispenser will continue to feed properly until empty. Supply is replenished manually on a cycle determined by maintenance needs. Batteries are replaced yearly or as required for heavy duty operation. See OM & IG for full details.

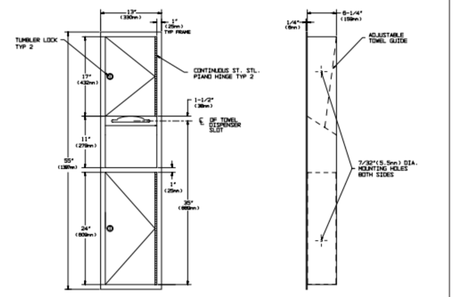
THIS MANUFACTURER RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN OR DIMENSIONS WITHOUT FORMAL NOTICE

RA-4

AMERICAN SPECIALTIES, INC.
441 Saw Mill River Road, Yonkers, NY 10701 (914) 476-9000

MODEL No:	0467
ISSUED:	1-87
REVISED:	9-04

RECESSED PAPER TOWEL DISPENSER AND WASTE RECEPTACLE



SPECIFICATION

Recessed Paper Towel Dispenser and Waste Receptacle shall hold and dispense 600 C-fold, 800 multi-fold or 1100 single-fold paper towels and shall have a waste capacity of 7 gal (26 liters). Unit shall be fabricated of alloy 18-8 stainless steel, type 304, 22 gauge with № 4 satin finish and be protected during shipment with a PVC film easily removable after installation. Adjustable guide shall be provided to allow dispensing of multi-fold or C-fold paper towels. Face trim shall be one piece construction with no miters or welding and shall be 1" (25.4mm) wide and have 1/4" (6.35mm) square return to wall. Cabinet shall have no exposed fastening devices or spot welded seams. Doors shall be double pan construction with No-Flex core and shall be mounted to cabinet body on 3/16" (4.8mm) dia. heavy duty stainless steel multi-staked piano hinges. Dispenser and disposal doors unit shall have tumbler locks keyed alike to other ASI washroom equipment.

Recessed Paper Towel Dispenser and Waste Receptacle shall be Model № 0467 as manufactured by American Specialties, Inc., 441 Saw Mill River Road, Yonkers, New York 10701-4913.

INSTALLATION

Unit is mounted in wall recess with № 10 self-tapping screws (by others) through concealed mounting holes. For compliance with "ADA" unit should be mounted with towel slot 54" (1372mm) max. above finish floor (AFF) for side reach or 48" 1219mm) max. AFF for frontal approach. Note that top of rough wall opening is 3/4" (19mm) below top of unit.

Rough Wall Opening(RWO) required is .....11-1/2" W x 53-1/2" H x 6-1/4" D. (292mm x 1359mm x 159mm)

OPERATION

Paper towels are manually withdrawn through dispensing slot. Dispenser is refilled by unlocking door and replacing towels for an empty or partially empty unit. Dispenser supply is replenished on cycle determined by maintenance needs.

Accessory Specialties AMERICAN DISPENSER Desert Ray Products WESTROLL, Inc.

THIS MANUFACTURER RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN OR DIMENSIONS WITHOUT FORMAL NOTICE

RA-5

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Project Number : 8989

ISSUED FOR CLIENT APPROVAL	DATE 08.17.2026
ISSUED FOR BIDDING	09.11.2026
ISSUED FOR PERMIT	09.11.2026
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE

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REGISTERED ARCHITECT JOHN S. BAKER 14288 STATE OF TEXAS
09/11/26

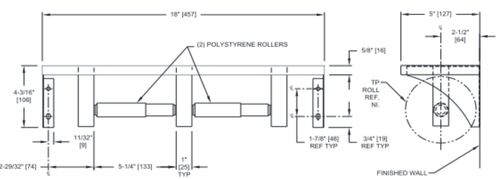
DRAWING TITLE
RESTROOM ACCESSORIES

DRAWN BY	Author	SHEET NO.
CHECKED BY	Checker	A-12.02
APPROVED BY	Approver	

AMERICAN SPECIALTIES, INC.
441 Saw Mill River Road, Yonkers, NY 10701
(914) 476.9000 • (914) 476.0688
www.americanspecialties.com

MODEL №:	0697-GAL
ISSUED:	01-87
REVISED:	18 JUL 2019

SURFACE MOUNTED SHELF AND DUAL TOILET PAPER HOLDER



FOR CLEANING INSTRUCTIONS SEE APPROPRIATE SECTIONS IN PRODUCT CARE & MAINTENANCE BULLETIN (PCM) ON ASI WEBSITE

SPECIFICATION

Surface Mounted Shelf & Dual Toilet Paper Holder shall hold two (2) 5" Dia [127] rolls of 1500 sheets or standard toilet paper rolls and shall have 5" [127] x 18" [457] shelf with 5/8" [16] hemmed lip on front edge. All metal parts shall be 18 gage [1.3] 304 stainless steel alloy 18-8. All exposed surfaces shall have satin finish and shall be protected during shipping by a PVC film easily removed after installation. Structural assembly of shelf and brackets/roll supports shall be of welded construction. Rollers (p/n R-003) shall be molded of high impact-resistant polystyrene plastic and two (2) shall be supplied.

Surface Mounted Shelf & Dual Toilet Paper Holder shall be Model № 0697-GAL as manufactured by American Specialties, 441 Saw Mill River Road, Inc., Yonkers, NY 10701-4913

INSTALLATION

Unit is surface mounted on wall or partition using №10 self-threading screws (by others) through holes provided in support brackets. For compliance with 2010 ADA accessibility Standards and 2015 ABA Standards, install unit so that centerline of nearest roll holder is 7" [178] min to 9" max [229] from front of toilet and axis of rolls is 15" [381] min AFF (Above Finished Floor) to 23" [584] max AFF. Recommended mounting height for general utility is 32" [813] to 36" [914] AFF.

OPERATION

Toilet paper rolls are self-feeding on user-pull demand until supply is depleted. Rollers are spring loaded for retention and provide free delivery.

THIS MANUFACTURER RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN OR DIMENSIONS WITHOUT FORMAL NOTICE

RA-1

Model #3801-36
Technical Data Sheet

OPERATION & MAINTENANCE

Stainless Steel washroom accessory products require regular surface cleaning, much the same as stainless steel sinks, pots and pans and eating utensils. As long as a regular cleaning schedule is followed, the best method is cleaning with a soft clean rag moistened with a mild detergent, followed by a water-moistened clean rag and then a dry rag. For a "new" look, surfaces can be wiped with lemon oil applied by a soft polishing cloth to maintain sheen. Stainless Steel should be protected against muriatic acid and caustic or abrasive materials, and harsh cleaning detergents [with pH outside the range 7 ± 1.5]. In the event such agents cause discoloration, polishing with a stainless steel cleaner such as 3M™ Stainless Steel Cleaner & Polish® and a soft cloth on bright or mirror finishes, or for satin finish surfaces the Stainless Steel cleaner and 3M™ Scotch Brite® pad either blue (less aggressive) or green (more aggressive) is recommended.

TECHNICAL INFORMATION / PRODUCT PROPERTIES

Property	Value
Dimensions	18 gauge tubing with 1-1/2" Outside Diameter [Ø38] / 36" [914] Length
Construction	Type 304 Stainless Steel - Satin Finish 18 gauge tubing with 1-1/2" Outside Diameter [Ø38]
Mounting	Surface Mounted
Capacity	ASI grab bars are designed to meet and exceed 2010 ADA Accessibility Standards and ANSI A117.1 that fabricated product shall be of adequate strength to support a load in excess of 250 pounds (113.4 kg). Mounting to the wall is a critical part of the system to meet this requirement. The fastener system must be adequately sized to withstand the shear, tension or pullout, and torsion loads generated by the maximum loading.

INSTALLATION

Use grab bar as template to mark mounting holes locations and pre-drill holes. Install bar using two (2) #10 self-threading flat head or oval head screws (by others) or other fastener system (by others) to suit conditions for each flange. Appropriate anchoring and backing must be provided in accordance with local building codes or as specified on Architects Plans prior to wall finishing. For compliance with 2010 ADA Accessibility Standards install unit so that the top of the grab bar is 33" [840] minimum Above Finished Floor (AFF) to 36" [915] maximum AFF. Anchors are available from ASI and must be specified separately for each grab bar style scheduled (see 3900 series).

Grab Bar Configurations https://americanspecialties.com/wp-content/uploads/grabbarconfig.pdf

WARRANTY

One (1) Year from date of Invoice

Manufacturer reserves the right to make changes to the design, dimensions or functionality of the product without formal notice.

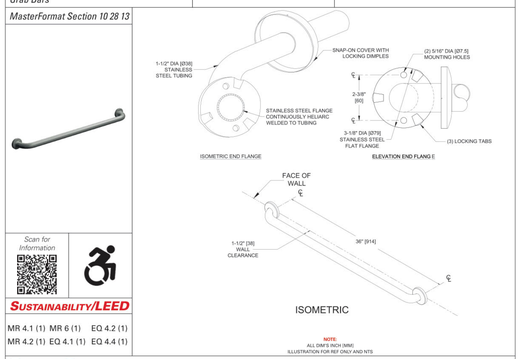
RA-2&3

Model #3801-36
Technical Data Sheet

1-1/2" Dia. Snap Flange Grab Bar - 36" [914] Length

Grab Bars

MasterFormat Section 10 28 13



Scan for information

SUSTAINABILITY/LEED

MR 4.1 (1) MR 6 (1) EQ 4.2 (1)
MR 4.2 (1) EQ 4.1 (1) EQ 4.4 (1)

PRODUCT OVERVIEW

Features include cover that snaps over mounting flange dimples to conceal screws and concealed mounting flange of 3-1/8" [79] O.D. with 2 screw holes and 3 locking dimples; 1/8" [3] thick, type 304 stainless steel. Cover is type 304 stainless steel with a satin finish and 22 gauge, 3-3/16" [81] diameter. 1-1/2" O.D [Ø38] exposed flange horizontal grab bar with a smooth surface.

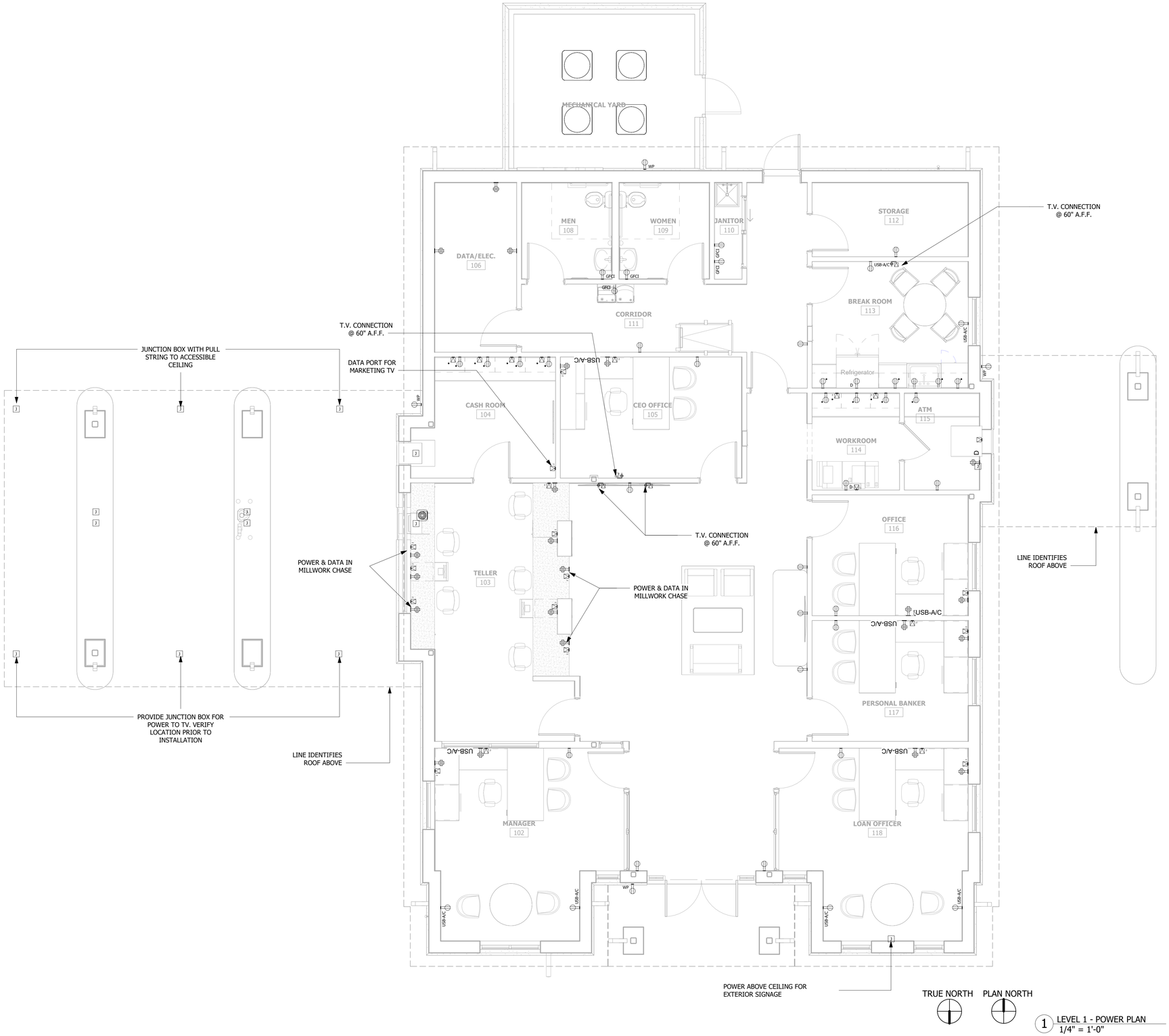
KEY FEATURES & SPECIFICATIONS

- Straight Grab Bar
- Snap Flange - cover snaps over mounting flange to conceal screws
- Type 304 Stainless Steel - Satin Finish
- Surface Mounted
- 18 gauge tubing with 1-1/2" Outside Diameter [Ø38]
- 36" [914] Length

586

RA-2&3

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1 LEVEL 1 - POWER PLAN
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: WHITE FOR ALL SWITCHES OR SHEETROCK AND BLACK ON WOODGRAIN

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) RJ-45
	DATA BOX WITH (2) RJ-45
SM	SOFFIT MOUNTED WEATHERPROOF DUPLEX RECEPTACLE
WP	EXTERIOR WEATHERPROOF DUPLEX RECEPTACLE
	CABLE TV
J	JUNCTION BOX

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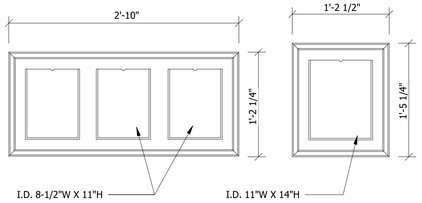
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REGISTERED ARCHITECT
THOMAS B. BAKER
14288
STATE OF TEXAS
09/11/26

DRAWING TITLE
POWER PLAN

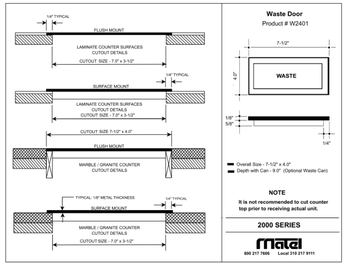
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CHECKED BY	CA	A-13.00
APPROVED BY	TB	

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REGULATORY INFORMATION	
QUANTITY:	xxx
MFG:	Regal Graphics
FRAME:	xxx
BACKGROUND:	xxx
LETTER:	N/A
BRAILLE:	N/A
MOUNTING:	xxx
SYMBOL:	xxx
NOTES:	xxx

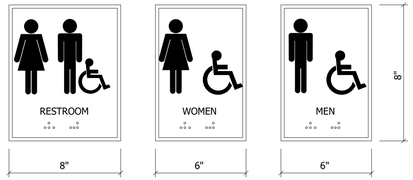
PERPETUAL CALENDAR	
QUANTITY:	xxx
MFG:	Matel Inc.
MODEL:	xxx
FINISH:	xxx
LETTER:	N/A
BRAILLE:	N/A
MOUNTING:	Directly to Checkstand Counter
SYMBOL:	xxx
NOTES:	xxx



WASTE DROP	
QUANTITY:	xxx
MFG:	Matel Inc.
MODEL:	W2401
BACKGROUND:	xxx
LETTER:	N/A
BRAILLE:	N/A
MOUNTING:	Directly to Checkstand Counter
SYMBOL:	xxx
NOTES:	Installer to paint inside of waste drop cutout black



ELECTRICAL ROOM SIGNAGE	
QUANTITY:	xxx
MFG:	xxx
FRAME:	xxx
BACKGROUND:	xxx
LETTER:	xxx
BRAILLE:	xxx
MOUNTING:	xxx
SYMBOL:	xxx
NOTES:	xxx



RESTROOM SIGNAGE	
QUANTITY:	xxx
MFG:	xxx
FRAME:	xxx
BACKGROUND:	xxx
LETTER:	xxx
BRAILLE:	Yes
MOUNTING:	Sticky tape back to wall
SYMBOL:	xxx
NOTES:	xxx

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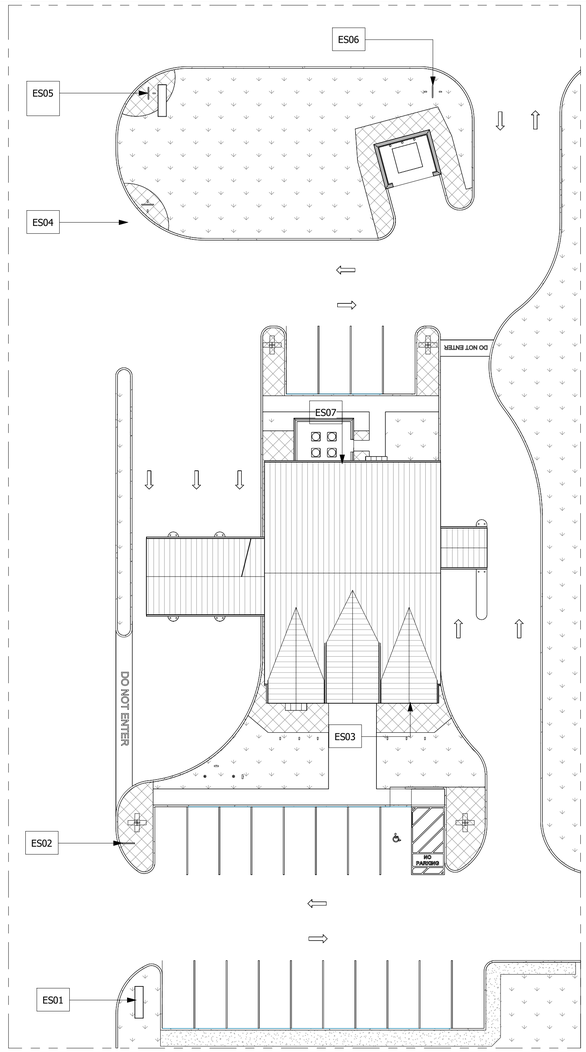
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THOMAS S. HUGHES
14288
STATE OF TEXAS
09/11/26

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APPROVED BY Approver
SHEET NO. A-14.00

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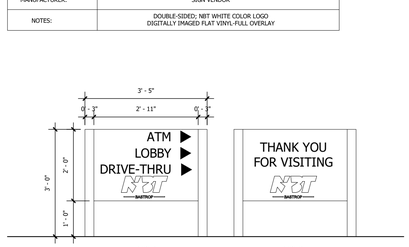


1 SITE SIGNAGE PLAN
1" = 20'-0"

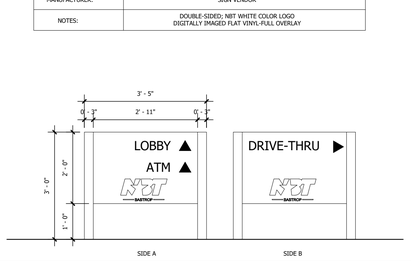
EXTERIOR SIGNAGE NOTES:

1. MOUNTING DETAILS- LETTER SHALL BE PIN MOUNTED.
2. LOCATION- ALL SIGNS SHALL BE CENTERED HORIZONTALLY AND VERTICALLY OVER DESIGNATED AREA.
3. APPROVAL: ALL LAYOUTS MUST BE APPROVED BY CLIENT AND ARCHITECT BEFORE FABRICATION.

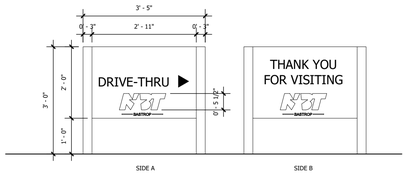
OPTIONAL: DIRECTIONAL SIGN	
SYMBOL:	ES-05
QTY:	1
LIGHTING:	NON-ILLUMINATED
LETTER:	ORACAL 010 WHITE LETTERS AND ARROWS; FONT: HELVETICA
BACKGROUND:	DARK BRONZE
FRAME:	DARK BRONZE 3"x3" EXTRUDED ALUMINUM TUBE POSTS
MOUNTING:	GROUND MOUNTED
MANUFACTURER:	SIGN VENDOR
NOTES:	DOUBLE-SIDED; NBT WHITE COLOR LOGO DIGITALLY IMAGED FLAT VINYL-FULL OVERLAY



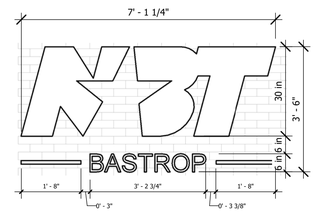
DIRECTIONAL SIGN	
SYMBOL:	ES-04
QTY:	1
LIGHTING:	NON-ILLUMINATED
LETTER:	ORACAL 010 WHITE LETTERS AND ARROWS; FONT: HELVETICA
BACKGROUND:	DARK BRONZE
FRAME:	DARK BRONZE 3"x3" EXTRUDED ALUMINUM TUBE POSTS
MOUNTING:	GROUND MOUNTED
MANUFACTURER:	SIGN VENDOR
NOTES:	DOUBLE-SIDED; NBT WHITE COLOR LOGO DIGITALLY IMAGED FLAT VINYL-FULL OVERLAY



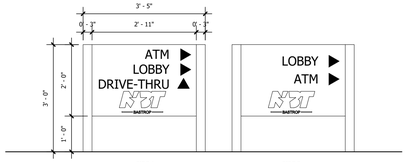
DIRECTIONAL SIGN	
SYMBOL:	ES-06
QTY:	1
LIGHTING:	NON-ILLUMINATED
LETTER:	ORACAL 010 WHITE LETTERS AND ARROWS; FONT: HELVETICA
BACKGROUND:	DARK BRONZE
FRAME:	DARK BRONZE 3"x3" EXTRUDED ALUMINUM TUBE POSTS
MOUNTING:	GROUND MOUNTED
MANUFACTURER:	SIGN VENDOR
NOTES:	DOUBLE-SIDED; NBT WHITE COLOR LOGO DIGITALLY IMAGED FLAT VINYL-FULL OVERLAY

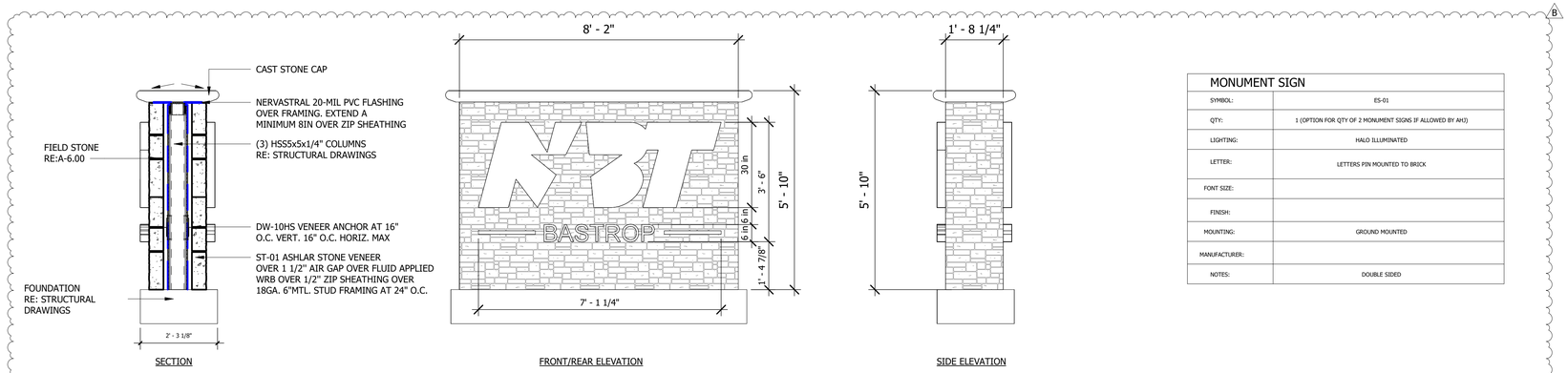


FRONT BUILDING SIGN	
SYMBOL:	ES-03
QTY:	1
LIGHTING:	HALO ILLUMINATED
LETTER:	TBD
FONT SIZE:	TBD
FINISH:	CLEAR ANODIZED xx" RETURN
MOUNTING:	PIN MOUNTED TO BRICK
MANUFACTURER:	
NOTES:	



DIRECTIONAL SIGN	
SYMBOL:	ES-02
QTY:	1
LIGHTING:	NON-ILLUMINATED
LETTER:	ORACAL 010 WHITE LETTERS AND ARROWS; FONT: HELVETICA
BACKGROUND:	DARK BRONZE
FRAME:	DARK BRONZE 3"x3" EXTRUDED ALUMINUM TUBE POSTS
MOUNTING:	GROUND MOUNTED
MANUFACTURER:	SIGN VENDOR
NOTES:	DOUBLE-SIDED; NBT WHITE COLOR LOGO DIGITALLY IMAGED FLAT VINYL-FULL OVERLAY





SECTION — FRONT/REAR ELEVATION — SIDE ELEVATION

MONUMENT SIGN	
SYMBOL:	ES-01
QTY:	1 (OPTION FOR QTY OF 2 MONUMENT SIGNS IF ALLOWED BY AHJ)
LIGHTING:	HALO ILLUMINATED
LETTER:	LETTERS PIN MOUNTED TO BRICK
FONT SIZE:	
FINISH:	
MOUNTING:	GROUND MOUNTED
MANUFACTURER:	
NOTES:	DOUBLE SIDED

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B	ADDENDUM B	09.25.26

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09/11/26

DRAWING TITLE
EXTERIOR SIGNAGE

DRAWN BY	RG	SHEET NO.
CHECKED BY	CA	A-14.10
APPROVED BY	TB	

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GENERAL NOTES

A. THE NOTES AND SPECIFICATIONS PROVIDED ON THE STRUCTURAL DRAWINGS ARE EXCERPTS FROM THE RELATING PROJECT SPECIFICATIONS. THEY ARE NEITHER COMPLETE NOR DO THEY REPLACE THE CONTRACT SPECIFICATIONS.

B. MEANS AND METHODS: THE STRUCTURAL DRAWINGS DEPICT THE STRUCTURE IN ITS FINAL CONSTRUCTED CONFIGURATION UNLESS SO STATED OR NOTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND PROVIDE ALL TEMPORARY SUPPORTS REQUIRED FOR THE EXECUTION OF THE CONTRACT INCLUDING BUT NOT LIMITED TO: GUYS, BRACES, SHORES, RE-SHORES, FALSEWORK, ANY TEMPORARY SUPPORTS OR TEMPORARY ANCHORS. NEITHER CONSTRUCTION MEANS AND METHODS NOR CONSTRUCTION SAFETY ARE PART OF THE STRUCTURAL ENGINEER'S EXPERTISE OR SCOPE OF WORK. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS ARE FULLY RESPONSIBLE FOR THE MEANS AND METHODS USED TO CONSTRUCT THE STRUCTURE AND FOR FULL COMPLIANCE WITH ALL JOB SAFETY RELATED REGULATIONS AND CONDITIONS AT THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS RELATING TO THE SPECIFIC STRUCTURAL ERECTION ITEMS ADDRESSED IN THE LATEST OSHA REGULATIONS.

C. LIMITED SITE VISITS IF ANY BY THE STRUCTURAL ENGINEER OF RECORD (SER) ARE SOLELY TO OBSERVE COMPLETED PARTS OF THE STRUCTURE. THE STRUCTURAL ENGINEER OF RECORD (SER) IS NEITHER QUALIFIED TO OBSERVE NOR COMMENT ON CONSTRUCTION MEANS AND METHODS AND JOB SITE SAFETY.

D. PRINCIPAL OPENINGS ARE SHOWN ON THE DRAWINGS. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENINGS, SLEEVES, CURBS, INSERTS, DEPRESSIONS, ETC., NOT SHOWN.

E. TYPICAL DETAILS: GENERAL DETAILS AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS. ALL WORK OR CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATION AND SAFETY REQUIREMENTS. ALL DETAILS ARE TYPICAL UNLESS NOTED OTHERWISE. DETAILS SHALL APPLY TO ALL SIMILAR AND LIKE CONDITIONS.

F. DISCREPANCIES: THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS. UPON RECEIPT OF SUCH INFORMATION, THE ENGINEER WILL SEND WRITTEN INSTRUCTIONS TO ALL CONCERNED. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND WORK SHALL BE PERFORMED IN A MANNER AS DIRECTED BY THE ENGINEER AT NO COST TO THE PROJECT.

G. EXCAVATION: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT

H. COORDINATION AND OTHER TRADES: IT IS NOT THE INTENT THAT THE STRUCTURAL DRAWINGS BE VIEWED AS STAND ALONE DRAWINGS WITH RESPECT TO PROJECT DIMENSIONS OR ANY OTHER COMPONENT OF THE CONSTRUCTION THAT CAN AND MAY BE IDENTIFIED IN OTHER PARTS OF THE CONTRACT DOCUMENTS. IT REQUIRES THE ENTIRE SET OF CONTRACT DOCUMENTS TO PROPERLY CONSTRUCT THE STRUCTURE AS WELL AS OTHER COMPONENTS OF THE BUILDING. ANCHORS REQUIRED FOR ANCHORING MEP EQUIPMENT AND / OR PIPING ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL DETERMINE AND COORDINATE REQUIREMENTS FROM OTHER DISCIPLINES AND SHALL PROVIDE APPROPRIATE ALLOWANCES INTO THE BID. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSEMBLE AND COORDINATE THE REQUIREMENTS OF ALL COMPONENTS OF THE CONTRACT DOCUMENTS IN ORDER TO PROPERLY IMPLEMENT THE REQUIREMENTS OF THE CONTRACT. SEE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF PIPES, VENTS, CHASES, DUCTS AND OTHER OPENINGS AND DETAILS NOT SHOWN ON THESE STRUCTURAL DRAWINGS. ALL DIMENSIONS ARE TO BE CHECKED AND VERIFIED WITH THE ARCHITECTURAL DRAWINGS.

I. SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS NOT SHOWN. THE CONTRACTOR SHALL COMPARE THE STRUCTURAL SECTIONS WITH THE ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.

J. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE GRADES WITH THE CIVIL ENGINEER'S GRADING PLAN AND THE LANDSCAPE ARCHITECT'S PLAN.

K. THE DRAWINGS IN THE STRUCTURAL DOCUMENTS ARE NOT TO BE SCALED FOR ANY PURPOSE, INCLUDING THE DETERMINATION OF QUANTITIES AND THE FIT UP OF MATERIALS.

L. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL CONTRACT DOCUMENTS AND LATEST ADDENDA AND TO PROVIDE SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS AND ERECTION IN THE FIELD.

M. PRECONSTRUCTION MEETINGS: THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING PRECONSTRUCTION MEETINGS FOR THE FOUNDATION AND SUPERSTRUCTURE ELEMENTS OF THE PRIMARY FRAME WITH A MINIMUM OF TWO WEEKS OF NOTICE PRIOR TO START OF THE RELEVANT WORK. ATTENDEES SHALL INCLUDE THE CONTRACTORS, APPROPRIATE SUBCONTRACTORS, FABRICATORS, INSPECTORS, ARCHITECT/ENGINEERS. THE MEETING AGENDA SHALL INCLUDE THE FOLLOWING ITEMS: REVIEW OF WORK SCOPE, PROJECT SCHEDULE FOR THE ELEMENTS BEING DISCUSSED, CONTACT INFORMATION OF RESPONSIBLE PARTIES, INSPECTION POINTS FOR BOTH SER AND SPECIAL INSPECTOR, REVIEW OF MATERIALS AND ANY SPECIAL DESIGN ISSUES, CLARIFICATIONS, TESTING AND ACCEPTANCE, AND ANY OTHER TOPIC DEEMED APPROPRIATE BY THE CONTRACTOR, ARCHITECT OR STRUCTURAL ENGINEER.

N. COLD-FORMED WALL STUDS AND CONNECTIONS SHALL BE DESIGNED AND SEALED BY A LICENSED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. THE CALCULATIONS AND DETAILED DRAWINGS SHALL BE SUBMITTED FOR APPROVAL SHOWING ALL CALCULATIONS, INCLUDING DESIGN LOADS, MEMBER SIZES AND CONNECTIONS.

O. SHOP DRAWINGS SHALL BE NEW DRAWINGS PRODUCED BY THE CONTRACTOR. ILLEGIBLE REPRODUCTIONS OF THE DESIGN DRAWINGS WILL BE REJECTED. THE USE OF REPRODUCTIONS OR ELECTRONIC FILES OF THE STRUCTURAL DRAWINGS FOR THE PREPARATION OF SHOP DRAWINGS IS NOT ACCEPTABLE WITHOUT PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER OF RECORD. IF SUCH AUTHORIZATION IS OBTAINED, DO NOT SUBMIT SHOP DRAWINGS WITH THE CONTRACT DOCUMENT TITLE BLOCK AND/OR THE SEAL OF THE REGISTERED ENGINEER OF RECORD AFFIXED. ALTERATION OF A SEALED DOCUMENTS WITHOUT PROPER NOTIFICATION OF THE RESPONSIBLE ENGINEER IS AN OFFENSE OF THE ENGINEERING PRACTICE ACT. THE USE OF REPRODUCTIONS OR ELECTRONIC FILES OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS OR OMISSIONS THAT MAY OCCUR HEREON. DRAWINGS REQUIRING A SPECIALTY STRUCTURAL ENGINEER (SSR) SHALL HAVE CALCULATIONS AND DRAWINGS SEALED BY A LICENSED ENGINEER IN THE STATE OF THE PROJECT.

P. SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. IT IS NOT THE INTENT THAT THE STRUCTURAL DRAWINGS BE VIEWED AS DETAILED SHOP OR ERECTION DRAWINGS. VARIOUS DIMENSIONS REQUIRED FOR PROPER FIT-UP OF THE COMPONENTS OF THE STRUCTURE MUST BE DETERMINED FROM THE INFORMATION THAT IS PROVIDED ELSEWHERE IN THE CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S AND THEIR DETAILER'S OR SUBCONTRACTOR'S RESPONSIBILITY TO ESTABLISH AND TO CALCULATE AND VERIFY THESE DIMENSIONS AS REQUIRED TO ACHIEVE PROPER FIT-UP OF MATERIALS AND TO ACHIEVE COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.

Q. OMISSION FROM THE SHOP DRAWINGS OF ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF COMPLYING WITH THE OMITTED REQUIREMENTS, EVEN IF THE SHOP DRAWINGS HAVE BEEN REVIEWED, APPROVED AND RETURNED.

R. SHOP DRAWING REVIEW PROCESS - ALL SHOP DRAWINGS WILL BE REVIEWED AND RETURNED IN THE ORDER RECEIVED UNLESS OTHER SPECIFIC INSTRUCTIONS ARE RECEIVED. FOR PROJECTS WITH MULTIPLE WORK AREAS, THE SHOP DRAWINGS MUST BE DIVIDE INTO THE SAME OR SIMILAR AREAS WITH EACH AREA SUBMITTED INDIVIDUALLY UNDER A SEPARATE TRANSMITTAL. IF THE SHOP DRAWINGS ARE NOT DIVIDED INTO AREAS PER THE CONTRACT DOCUMENTS, THAT SUBMITTAL WILL BE REJECTED. EACH SUBMITTAL WILL BE REVIEWED INDIVIDUALLY AND REQUIRE AN INDIVIDUAL TIME FRAME OF TEN (10) WORKING DAYS PER SUBMITTAL. IF MULTIPLE SUBMITTALS ARE RECEIVED WITHIN THE REVIEW TIME FRAME OF A PRIOR SUBMITTAL, THEY WILL BE REVIEWED CONSECUTIVELY EACH WITH ITS OWN INDIVIDUAL REVIEW TIME FRAME THAT BEGINS ONCE THE PRIOR SUBMITTAL IS RETURNED. THIS GIVES EACH SUBMITTAL A TEN (10) WORKING DAY REVIEW WINDOW.

S. RETURNED SHOP DRAWINGS STAMPED "NOTE MARKINGS" OR "APPROVED AS NOTED" ARE ASSUMED TO BE APPROVED ONCE ALL THE COMMENTS HAVE BEEN INCORPORATED. THE SER WILL ONLY REVIEW SUBMITTALS ONE ADDITIONAL TIME AND ONLY IF THEY ARE MARKED "REVISE AND RESUBMIT" OR "REJECTED". ANY FURTHER REVIEWS OF THE SAME OR SIMILAR SUBMITTALS WILL BE AT THE GENERAL CONTRACTORS EXPENSE WITH PAYMENT FOR SERVICES RENDERED PRIOR TO THE RETURN OF THE APPROVAL DRAWINGS.

T. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELAYS CAUSED BY REJECTION OF INADEQUATE, INCOMPLETE OR INCORRECT SHOP DRAWINGS.

U. SHOP DRAWINGS THAT ARE NOT SPECIFICALLY REQUIRED BY THE GENERAL NOTES OR SPECIFICATIONS WILL NOT BE REVIEWED OR RETURNED.

V. MINIMUM SHOP DRAWING SUBMITTAL REQUIREMENTS INCLUDE:

- CONCRETE MIX DESIGNS FOR EACH CLASS OF CONCRETE WITH TEST DATA
- CONCRETE ACCESSORIES (VAPOR RETARDER, REINFORCING SUPPORT CHAIRS, VOID FORMS, ETC.)
- CONCRETE REINFORCING SHOP DRAWINGS
- STRUCTURAL STEEL SHOP DRAWINGS
- STEEL STAIR, LADDER AND HANDRAIL SHOP DRAWINGS (SEALED BY A LICENSED ENGINEER)
- CMU GROUT, CMU UNITS MORTAR AND ACCESSORIES SHOP DRAWINGS
- WOOD TRUSS SHOP DRAWINGS AND CALCULATIONS (SEALED BY LICENSED ENGINEER)
- GLAZED ALUMINUM FRAMING SYSTEMS SHOP DRAWINGS AND CALCULATIONS (SEALED BY LICENSED ENGINEER)
- PRE-FABRICATED CANOPY FRAMING SYSTEMS SHOP DRAWINGS AND CALCULATIONS (SEALED BY A LICENSED ENGINEER)

W. CRANES, CONCRETE TRUCKS AND ALL OTHER HEAVILY LOADED VEHICLES ARE NOT TO BE DRIVEN ACROSS GRADE BEAMS OR BUILDING SLABS.

X. ALL SHORING REQUIRED TO TEMPORARILY SUPPORT CONSTRUCTION LOADS DURING THE CONSTRUCTION OF THE PROJECT SHALL BE DESIGNED AND SEALED BY A LICENSED ENGINEER. ALL EXISTING STRUCTURES AND NEW STRUCTURES SUPPORTING SHORING LOADS SHALL ALSO BE ANALYZED TO DETERMINE IF THEY ARE CAPABLE OF SUPPORTING THE REQUIRED LOADS AND SHALL BE REVIEWED BY A LICENSED ENGINEER. SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.

Y. ERECTION OF STRUCTURAL STEEL MAY NOT BEGIN UNTIL CONCRETE FOUNDATION HAS CURED FOR A MINIMUM OF THREE DAYS. STRUCTURAL STEEL OR OTHER HEAVY LOADS SHALL NOT BE STOCKPILED ON ANY SLAB UNTIL IT HAS CURED FOR A MINIMUM OF THREE DAYS.

Z. NON-CONFORMING WORK, REMEDIAL REPAIRS, AND FIELD MODIFICATIONS — ALL NON CONFORMING WORK AND ASSOCIATED REMEDIAL REPAIRS OR FIELD MODIFICATIONS, INCLUDING ENGINEERING, QUALITY REVIEW AND DRAFTING OF ANY NEW DETAILS OR DOCUMENT REVISIONS, SUBMITTED AS A REQUEST FOR INFORMATION (RFI) AND DEEMED TO REQUIRE ADDITIONAL ENGINEERING OR DRAFTING SERVICES MAY BE BILLED AS AN ADDITIONAL SERVICE AT THE CONTRACTORS EXPENSE AT THE SOLE DISCRETION OF THE SER. THE SER MAY WITHHOLD FUTURE SERVICES UNTIL PAYMENT IS RECEIVED.

AA. NOTE THAT THE GROUND FLOOR SLAB IS A GROUND SUPPORTED SLAB AT GRADE AS PER THE DESIGN RECOMMENDED IN THE GEOTECHNICAL REPORT. IT IS NOT A STRUCTURAL SLAB AND AS SUCH IT IS NOT DESIGNED FOR ANY EXTERNAL UPWARD OR DOWNWARD LOADS, IT IS INTENDED TO BE ENTIRELY SUPPORTED BY THE PREPARED GROUND UNDER THE SLAB. THE CONTRACTOR SHOULD NOTE THAT THE PERFORMANCE OF THE SLAB AS DESIGNED AND INTENDED BY THE GEOTECHNICAL ENGINEER IS HIGHLY DEPENDENT ON HOW WELL THE CONTRACTOR FOLLOWS THE SITE PREPARATION INSTRUCTIONS IN THE GEOTECHNICAL REPORT. THE ARCHITECT SHALL ADVISE THE OWNER THAT THE PERFORMANCE OF THE SLAB INVOLVES SOME RISK, AND THAT SLAB ON GRADE MAY EXPERIENCE VERTICAL MOVEMENTS OF 1-1/2 INCHES OR MORE DEPENDING ON CLIMATIC FACTORS AND IS DEPENDENT ON ENVIRONMENTAL CONDITIONS OVER WHICH THE OWNER HAS CONTROL OF AFTER OCCUPANCY OF THE BUILDING. FURTHERMORE, A SLAB ON GRADE CAN EXPERIENCE VERTICAL MOVEMENT BASED ON CHANGES IN THE MOISTURE CONTENT OF THE UNDERLYING SOILS AND THAT STRUCTURAL SLABS WOULD LIMIT THIS RISK AT A GREATER UP-FRONT COST TO THE PROJECT. THE ARCHITECT, CONTRACTOR AND THE OWNER SHOULD CONSULT WITH THE GEOTECHNICAL ENGINEER IF THERE ARE ANY QUESTIONS CONCERNING CONSTRUCTION, PERFORMANCE AND RISKS INVOLVED WITH GROUND SUPPORTED SLAB AT GRADE CONSTRUCTION.

DESIGN CRITERIA:

BUILDING CODE: INTERNATIONAL BUILDING CODE, 2018 EDITION, ASCE 7-16

LIVE LOAD:

ROOF: 20 PSF

WIND LOAD:

VELOCITY (BASIC)	110 MPH	THREE SECOND GUST (BASIC) ASCE 7-16
EXPOSURE	B	
RISK CATEGORY	II	
INTERNAL PRESSURE COEFFICIENT, G_{CPI}	+/- 0.18	

MAIN WIND FORCE RESISTING SYSTEM (MWFRS):	
MAXIMUM HORIZONTAL INTERIOR PRESSURE	24 PSF
MAXIMUM HORIZONTAL EXTERIOR PRESSURE	28 PSF
MAXIMUM GROSS UPLIFT INTERIOR ZONE	16 PSF
MAXIMUM GROSS UPLIFT EXTERIOR ZONE	23 PSF
CORNER ZONE WIDTH	12'-0" FROM EACH CORNER

COMPONENTS AND CLADDING — GROSS ROOF UPLIFT IN PSF		
ZONE	EFFECTIVE WIND AREA (SQUARE FEET)	
	10	200
INTERIOR ZONE/ZONE 1	32	16
EXTERIOR ZONE/ZONE 2	36	19
CORNERS AND OVERHANGS/ZONE 3	44	19
RELIABLE DEAD LOAD	5 PSF	
CORNER ZONE WIDTH	6'- 0" FROM EACH CORNER	

COMPONENTS AND CLADDING — WALLS IN PSF		
ZONE	EFFECTIVE WIND AREA (SQUARE FEET)	
	10	200
INTERIOR ZONE/ZONE 4	21	17
EXTERIOR (CORNER) ZONE/ZONE 5	26	18
CORNER ZONE WIDTH	6'- 0" FROM EACH CORNER	

ALLOWABLE SOIL BEARING CAPACITY:
(AT 2'—6" BELOW FINISHED GRADE)

TOTAL LOAD	2,000 PSF

EARTHWORK

1. SITE PREPARATION FOR THE BUILDING PAD SHALL CONSIST OF THE REMOVAL OF EXISTING PAVEMENT, VEGETATION, ORGANIC MATTER AND ANY ADDITIONAL MATERIAL AS NECESSARY TO PROVIDE THE REQUIRED AMOUNT OF FILL UNDER THE BUILDING.

2. THE SUBGRADE SHALL BE PROOFROLLED WITH A HEAVY, RUBBER-TIRED VEHICLE (STATIC WEIGHT OF AT LEAST 20 TONS AND WITH TIRE PRESSURES OF AT LEAST 90 PSI). THE CONTRACTOR SHALL MAKE AT LEAST TWO COMPLETE PASSES OVER THE AREA WITH THE SECOND PASS PERPENDICULAR TO THE FIRST PASS. AREAS OF THE SUBGRADE THAT ARE OBSERVED TO BE SOFT OR WEAK SHALL BE OVEREXCAVATED AND REPLACED WITH PROPERLY COMPACTED SELECT FILL.

3. SUBGRADE SHALL THEN BE SCARIFIED AND MOISTURE CONDITIONED TO MATCH THE BUILDING PAD PERIMETER TO A SIX (6) INCH DEPTH AND THEN RECOMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN OPTIMUM AND +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT. PROVIDE A MINIMUM OF FOUR (4) FIELD DENSITY TESTS ON THE SUBGRADE OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER.

4. SELECT FILL MATERIAL FOR THE BUILDING PAD SHALL BE AN INORGANIC SANDY CLAY WITH A LIQUID LIMIT BETWEEN 26 AND 35 AND PLASTICITY INDEX BETWEEN 12 AND 20. STRUCTURAL SELECT FILL PAD MATERIAL SHALL BE TESTED FOR ACCEPTABILITY AND A MOISTURE DENSITY CURVE SHALL BE ESTABLISHED.

5. SELECT FILL SHALL BE PLACED IN EIGHT INCH LOOSE LIFTS AND COMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN -1 AND +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT FOR SELECT FILL. SELECT FILL MATERIAL SHALL EXTEND TO 5'-0" BEYOND THE BUILDING PERIMETER. PROVIDE A MINIMUM OF FOUR (4) FIELD DENSITY TESTS ON EACH LIFT OF SELECT FILL OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER.

6. SELECT FILL MATERIAL SHALL BE TESTED DURING PLACEMENT OF EACH LIFT FOR THE ATTERBERG LIMITS IN ACCORDANCE WITH ASTM D4318-98 METHOD B "STANDARD TEST METHOD FOR LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS" TO VERIFY THAT THE SELECT FILL MATERIAL IS IN ACCORDANCE WITH THE ORIGINALLY APPROVED SELECT FILL MATERIAL. PROVIDE A MINIMUM OF ONE (1) TEST PER LIFT OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER WITH A MAXIMUM OF TEN (10) PER LIFT.

7. CONTRACTOR SHALL MAINTAIN A CLEAN EXCAVATION THAT IS FREE OF WATER 100% OF THE TIME. CONTRACTOR SHALL PROVIDE PUMPS AS REQUIRED TO REMOVE ANY WATER AT ALL TIMES.

8. THE SITE SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE BUILDING PAD DURING BUILDING PAD INSTALLATION AND WHEN THE BUILDING PAD AND BUILDING ARE COMPLETED.

9. PLUMBING AND UTILITY TRENCHES WITHIN THE BUILDING PAD SHALL HAVE PIPING BEDDED ON 6" MINIMUM OF CEMENT STABILIZED SAND WITH 4" MINIMUM ALL AROUND. BACKFILL IN UTILITY TRENCHES SHALL CONSIST OF COMPACTED SELECT FILL. PROVIDE A 2'-0" WIDE BENTONITE CLAY PLUG OR FAT CLAY (PI>50) FOR THE FULL DEPTH AND WIDTH OF THE UTILITY TRENCH TO A MINIMUM OF 1'-0" ABOVE THE BOTTOM OF THE FOUNDATION AT THE EXTERIOR FACE OF BUILDING FOUNDATIONS WHERE UTILITY TRENCHES ENTER THE BUILDING.

10. PROVIDE A MINIMUM TWELVE (12) INCH FAT CLAY CAP (PI>50) FOR A MINIMUM OF 5'-0" AROUND THE PERIMETER OF THE BUILDING. THE CAP SHALL EXTEND AS REQUIRED TO COVER THE LIMITS OF THE BUILDING PAD EXCAVATION AND SELECT FILL BUILDING PAD MATERIALS.

SITE DRAINAGE

1. GRADE THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AND SLABS. WATER SHALL NOT BE ALLOWED TO POND ADJACENT TO THE BUILDING FOUNDATIONS OR SLABS.

2. AS A MINIMUM REQUIREMENT, ALL DOWNSPOUTS FROM ROOF DRAINS AND GUTTERS SHALL BE COLLECTED AND PIPED AWAY FROM THE BUILDING. WHEN WATER IS NOT PIPED AWAY FROM THE BUILDING, DOWNSPOUTS SHALL DUMP ONTO A CAST IN PLACE 4" THICK X 3'-0" WIDE CONCRETE SWALE REINFORCED WITH #4 AT 12" ON CENTER EACH WAY AND EXTENDING 10'-0" OUT FROM THE BUILDING. REFER TO ARCHITECTURAL AND CIVIL FOR PAVING AND DRAINGAGE.

3. TREES AND VEGETATION SHALL NOT BE ALLOWED WITHIN A DISTANCE EQUAL TO THREE QUARTERS THEIR ULTIMATE HEIGHT AWAY FROM THE BUILDING.

4. IRRIGATE VEGETATION AND SOILS ADJACENT TO BUILDING (NO MORE THAN 15 MINUTES THREE TIMES A WEEK) ON AN AS NEEDED BASIS TO MAINTAIN UNIFORM SOIL MOISTURE CONDITIONS AROUND THE PERIMETER OF THE BUILDING FOLLOWING CONSTRUCTION.

FOUNDATIONS

1. PREPARED GRADE AREA UNDER ALL BUILDING SLABS AND GRADE BEAMS SHALL BE COVERED WITH A 15 MIL WATER VAPOR RETARDER MEETING THE REQUIREMENTS OF ASTM E 1745 (LATEST EDITION), CLASS A OR BETTER WITH MAXIMUM WATER PERMEANCE OF 0.01 PERMS WHEN TESTED IN ACCORDANCE WITH ASTM E96. THE WATER VAPOR RETARDER SHALL BE INSTALLED, LAPPED AND TAPED WITH MANUFACTURER'S APPROVED PRODUCT IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM E 1643 (LATEST EDITION). PENETRATIONS SHALL SEALED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.

2. FOUNDATION DETAILING SHOWN ON THE DRAWINGS IS BASED ON A FOUNDATION DESIGN SPECIFIED IN THE SOIL REPORT BY THOMPSON ENGINEERING, REPORT NO. 26-1119-0030, DATED AUGUST 11, 2026. THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT SHALL NOT SUPERSEDE THE REQUIREMENTS SHOWN ON THE DESIGN DRAWINGS OR IN THE SPECIFICATIONS WHEN THE REQUIREMENTS SHOWN ON THE DRAWINGS ARE GREATER THAN THOSE SHOWN IN THE GEOTECHNICAL REPORT. THE CONTRACTOR IS REQUIRED TO SECURE A COPY OF THE GEOTECHNICAL REPORT FROM THE OWNER AND TO HAVE A COPY ON THE JOB SITE AT ALL TIMES FOR HIS USE AND REFERENCE.

3. FOUNDATION DETAILING SHOWN ON THE DRAWINGS IS BASED ON A MINIMUM OF ONE FOOT OF SELECT FILL MATERIAL BENEATH THE FLOOR SLAB AND SHALL EXTEND TO 5'-0" BEYOND THE BUILDING PERIMETER. PROVIDE ADDITIONAL SELECT FILL MATERIAL AS REQUIRED TO BRING THE SLAB UP TO THE FINISH FLOOR ELEVATION SHOWN IN THE CONSTRUCTION DOCUMENTS.

4. ALL BACKFILL FOR BURIED PIPES AND CONDUIT WITHIN THE BUILDING PAD AND EXTENDING OUT MINIMUM 5'-0" BEYOND THE BUILDING SHALL BE BACKFILLED WITH SELECT FILL BACKFILL. DO NOT USE SAND BACKFILL. A 2'-0" WIDE BENTONITE PLUG SHALL BE PROVIDED IN ALL UTILITY TRENCHES AT THE FACE OF THE BUILDING FOUNDATION. SEE DETAIL 8/S3.2FOR DETAIL AT PIPE BUILDING ENTRY.

5. CONDUITS SHALL NOT BE PLACED IN THE CONCRETE SLAB. CONDUITS SHALL BE PLACED IN THE SELECT FILL MATERIAL BENEATH THE VAPOR RETARDER. ALL PENETRATIONS OF THE VAPOR RETARDER SHALL BE SEALED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. CONDUIT TRENCHES WITHIN THE BUILDING PAD SHALL BE LIMITED TO A MAXIMUM WIDTH OF TWO FEET AND BE SPACED NO CLOSER THAN FOUR FEET CENTER TO CENTER. CONDUITS STACKED WITHIN A SINGLE TRENCH SHALL BE SEPARATED VERTICALLY BY TWO TIMES THE DIAMETER OF THE LARGEST CONDUIT OR 12 INCHES MINIMUM. COMPACTED SELECT FILL OR OTHER APPROPRIATE COMPACTED FILL MATERIAL SHALL BE USED BETWEEN STACKED CONDUITS.

6. THE FLOOR SLAB SUBGRADE SHALL BE PROPERLY COMPACTED, PROOF ROLLED AND SHALL BE FREE OF STANDING WATER, MUD AND FROZEN SOILS.

7. SLABS ON GROUND SHALL HAVE CONSTRUCTION JOINTS OR CRACK CONTROL JOINTS (REFER TO TYPICAL DETAILS) AT EACH COLUMN LINE AND IN EACH DIRECTION. ADDITIONAL CRACK CONTROL JOINTS SHALL BE PROVIDED SUCH THAT NO AREA BOUNDED BY CONSTRUCTION AND/OR CRACK CONTROL JOINTS CONTAINS MORE THAN 250 SQUARE FEET AND THE RESULTING ASPECT RATIO OF LONG SIDE TO SHORT SIDE DIMENSIONS OF THE BOUNDED SLAB AREA DOES NOT EXCEED 1.5 TO 1. CRACK CONTROL JOINTS SHALL BE MADE USING A "SOFT-CUT" CONCRETE SAW AS SOON AS THE SLAB WILL SUPPORT THE WEIGHT OF THE SAW AND OPERATOR WITHOUT DISTURBING THE FINAL FINISH. THIS SHOULD BE WITHIN THE FIRST SIX HOURS AFTER PLACEMENT. THE CRACK CONTROL JOINTS SHALL BE CUT A MAXIMUM WIDTH OF 1/8 INCH AND A MINIMUM DEPTH OF 1/3 THE SLAB THICKNESS. REFER TO THE TYPICAL DETAILS AND DRAWINGS FOR INFORMATION ON CONTROL JOINTS, CONSTRUCTION JOINTS, REINFORCING DETAILS, JOINT SEALANT, AND TYPICAL JOINT LAYOUT.

8. WHERE SLABS ARE TO RECEIVE SENSITIVE ARCHITECTURAL FLOOR FINISHES, ALL JOINTS IN THE SLAB CONSTRUCTION SHALL BE PLACED TO ALIGN WITH JOINTS IN THE FLOOR FINISHES.

9. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SHORING OF WALLS WHICH ARE ULTIMATELY SUPPORTED TOP AND BOTTOM. SUCH SHORING SHALL NOT BE REMOVED UNTIL ALL SUPPORTING ELEMENTS ARE IN PLACE, THE COMPACTION OF ALL BACKFILL AGAINST THE WALL HAS BEEN COMPLETED, AND THE CONCRETE IN THE WALLS AND SUPPORTING ELEMENTS HAS ATTAINED THE SPECIFIED 28 DAY COMPRESSIVE STRENGTH (Fc'),

10. EXCAVATIONS FOR SPREAD FOOTING, COMBINED FOOTING, CONTINUOUS FOOTINGS AND/OR MAT FOUNDATIONS SHALL BE CLEANED AND HAND TAMPED TO A UNIFORM SURFACE. FOOTING EXCAVATIONS SHALL HAVE THE SIDE AND BOTTOM TEMPORARILY LINED WITH 6 MIL VAPOR BARRIER IF CONCRETE PLACEMENT DOES NOT OCCUR WITHIN 24 HOURS OF FOOTING EXCAVATION. SEAL SLABS MAY BE REQUIRED BASED ON GROUND WATER CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS, AND COST ASSOCIATED WITH ALL SEAL SLABS. REFER TO THE GEOTECHNICAL REPORT FOR GROUND WATER OR POTENTIAL PERCHED WATER CONDITIONS.

11. REINFORCEMENT PLACEMENT SEQUENCE FOR FOOTINGS AND MATS IS NOTED FOR MAJOR REINFORCEMENT BAR LAYERS ONLY. IN SPREAD FOOTINGS OR MATS, THE CONTRACTOR SHALL COORDINATE AND SEQUENCE ALL OTHER BAR PLACEMENTS AS REQUIRED TO CONFORM TO THE CONTRACT DOCUMENTS.

12. FOUNDATION CONDITIONS THAT DIFFER FROM THOSE NOTED IN THE CONTRACT DOCUMENTS OR AS DESCRIBED IN THE GEOTECHNICAL REPORT SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT, GEOTECHNICAL ENGINEER AND SER BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.

13. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND SER AT LEAST 48 HOURS PRIOR TO PLACEMENT OF CONCRETE IN FOOTINGS.

14. ALL FOOTINGS SHALL BE CONSOLIDATED WITH A CONCRETE VIBRATOR AS PER THE REQUIREMENTS OF ACI 318 AND ACI 308R, LATEST EDITION.

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10 September 2026

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CONCRETE

1. ALL CONCRETE REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60, EXCEPT WHERE NOTED. NO. IO THROUGH NO. I8 BARS SHALL CONFORM TO ASTM A615, GRADE 75. DEFORMED BAR ANCHORS SHALL CONFORM TO ASTM A496, GR 70. ALL BARS SHALL BE NEW OR RECYCLED DOMESTIC BILLET STEEL OF A DOMESTIC MANUFACTURER.

2. CONCRETE IN THE FOLLOWING AREAS SHALL HAVE SAND AND CRUSHED CARBONATE AGGREGATE CONFORMING TO ASTM C33 FOR NORMAL WEIGHT CONCRETE AND LIGHT WEIGHT AGGREGATES CONFORMING TO ASTM C330, TYPE I PORTLAND CEMENT CONFORMING TO ASTM CI50, AND THE FOLLOWING DESIGNATED COMPRESSIVE STRENGTH (f'c) IN 28 DAYS:

CONCRETE USE OR CLASS	MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'c)	MAXIMUM WATER CEMENT RATIO	SLUMP (INCHES)
FOOTINGS	3000 PSI	0.50	5 TO 8
SLABS ON GROUND SEE NOTE 4	4000 PSI	0.45	4 TO 6
ALL OTHER CONCRETE	3000 PSI	0.50	4 TO 6
SLUMP SHALL BE MEASURED FROM SAMPLES TAKEN AT THE POINT OF DISCHARGE UNLESS AGREED TO IN WRITING PRIOR TO CONCRETE PLACEMENT			

NOTE: CONCRETE SUPPLIER SHALL BE AWARE OF CEMENTS THAT CAN CAUSE LATE ETTRINGITE FORMATION IN THE CEMENT PASTE AND BE PREPARED TO SHOW THAT THE CEMENTS USED WILL NOT CAUSE THIS PROBLEM.

3. FLY ASH MAY BE USED AS A POZZOLAN TO REPLACE A PORTION OF THE PORTLAND CEMENT IN A CONCRETE MIXTURE, SUBJECT TO THE APPROVAL OF THE ARCHITECT AND SER. FLY ASH, WHEN USED, SHALL CONFORM TO ASTM C618 TYPE 'C'. CONCRETE MIXTURES CONTAINING FLY ASH SHALL BE PROPORTIONED TO ACCOUNT FOR THE PROPERTIES OF THE SPECIFIC FLY ASH AND TO ACCOUNT FOR THE SPECIFIC PROPERTIES OF THE FLY ASH CONCRETE THUS RESULTING, INCLUDING BUT NOT LIMITED TO WATER CEMENT RATION AND MINIMUM 28 DAY COMPRESSIVE STRENGTH. THE RATIO OF THE AMOUNT BY VOLUME OF FLY ASH TO THE TOTAL AMOUNT BY VOLUME OF CEMENTITIOUS MATERIAL (INCLUDING THE FLY ASH) SHALL NOT EXCEED 25 PERCENT.

4. FLY ASH IS NOT PERMITTED IN SLABS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ARCHITECT AND SER.

5. AIR ENTRAINMENT IS REQUIRED ONLY IN HARD ROCK CONCRETE PERMANENTLY EXPOSED TO WEATHER CONDITIONS. WHERE LIGHTWEIGHT CONCRETE IS SPECIFIED, AIR ENTRAINMENT IS REQUIRED FOR ALL EXPOSURE CONDITIONS. PERCENT AIR ENTRAINMENT LISTED IS PLUS/MINUS I.5%. DO NOT AIR-ENTRAIN INTERIOR FLOOR SLABS THAT RECEIVE HARD TROWEL FINISH.

6. CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS; SEE SEC. 7.7 ACI 318, LATEST EDITION FOR CONDITIONS NOT NOTED. PROVIDE CHAIR SUPPORTS (AZTEC CASTLE CHAIR, OCM CRADLE CHAIRS, WHC SERIES 'E' OR EQUAL) TO ADEQUATELY SUPPORT BARS FOR PROPER CLEARANCE AS RECOMMENDED BY THE AMERICAN CONCRETE INSTITUTE AND THE CONCRETE REINFORCING STEEL INSTITUTE. SLAB ON GRADE REINFORCEMENT SHALL BE SUPPORTED AT 45-INCH MAXIMUM INTERVALS OR EVERY THIRD BAR. UTILITY OR CONCRETE BRICKS ARE NOT ALLOWED AS REINFORCING SUPPORTS.

MINIMUM CONCRETE COVER REQUIREMENTS	
LOCATION	MINIMUM COVER
FOOTINGS	3 INCHES
GRADE BEAMS	3 INCHES BOTTOM 2 INCHES SIDES — FORMED SURFACE 3 INCHES SIDES — EARTH FORMED I — I/2 INCHES TOP
SLAB ON GROUND	I INCH TOP

7. NO HORIZONTAL JOINTS WILL BE PERMITTED IN CONCRETE EXCEPT WHERE THEY NORMALLY OCCUR OR WHERE NOTED. NO JOINTS BETWEEN PILASTERS AND GRADE BEAM THAT ARE MEANT TO BE MONOLITHIC. VERTICAL JOINTS SHALL OCCUR AT CENTER SPANS OR AT LOCATIONS APPROVED BY THE STRUCTURAL ENGINEER.

8. CONSTRUCTION JOINTS BETWEEN PIERS AND PIER CAPS OR GRADE BEAMS, FOOTINGS AND WALLS OR COLUMNS, OR WALLS, COLUMNS, BEAMS AND THE FLOOR SYSTEM THEY SHALL SUPPORT SHALL BE PREPARED BY ROUGHENING THE SURFACE CONTACT SURFACE TO A FULL AMPLITUDE ON I/4" LEAVING THE CONTACT SURFACE CLEAN AND FREE OF ALL LAITANCE.

9. DETAILING OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI PUBLICATION 315, LATEST EDITION "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" AND ACI SP -66 "DETAILING MANUAL". PLACING OF REINFORCING BARS SHALL CONFORM TO THE RECOMMENDATIONS OF ACI 315R "MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES" AND CRSI "MANUAL OF STANDARD PRACTICE". ALL HOOKED BARS SHOWN IN THE DETAILS SHALL HAVE STANDARD HOOKS UNLESS NOTED OTHERWISE.

10. REINFORCING BARS SHALL NOT BE WELDED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER. REINFORCING STEEL THAT REQUIRES WELDING SHALL CONFORM TO ASTM A706, WITH GRADES AS SHOWN ABOVE.

11. UNLESS BARS ARE SPECIFICALLY SHOWN IN THE BAR BENDING DIAGRAMS ON THE SCHEDULES, PROVIDE BARS AS FOLLOWS:

    A) PROVIDE STANDARD 90 DEGREE HOOK ON TOP BARS AT CANTILEVER ENDS.

    B) SPLICE BOTTOM BARS DIRECTLY OVER MEMBER SUPPORTS, UNLESS NOTED OTHERWISE.

    C) SPLICE TOP AND INTERMEDIATE BARS AT THE CENTER LINE BETWEEN MEMBER SUPPORTS, UNLESS NOTED OTHERWISE.

    D) SPLICE VERTICAL BARS IN WALLS ONLY AT FLOOR LINES, UNLESS NOTED OTHERWISE. HORIZONTAL BARS SHALL BE SPLICED AS SPECIFIED FOR TOP, BOTTOM, AND INTERMEDIATE BARS OF BEAMS.

    E) CENTER BARS NOTED AS "AT SUPT'S." OVER MEMBER SUPPORTS, AND CENTER BARS NOTES AS "BTWN. SUPT'S." BETWEEN SUPPORTS.

    F) PLACE BARS NOTED AS "2ND LAYER" BELOW THE PRIMARY TOP BARS (OR ABOVE THE PRIMARY BOTTOM BARS) AND PROVIDE #II SPACER BARS PLACED AT INTERVALS OF 4'-0" BETWEEN THE TWO LAYERS OF BARS.

    G) SPLICE VERTICAL BARS IN COLUMNS ONLY AT FLOOR LINES, UNLESS NOTED OTHERWISE. COLUMN BAR SPLICES SHALL BE AS SHOWN IN THE COLUMN SCHEDULE.

    H) PROVIDE CORNER BARS FOR EACH HORIZONTAL BAR AT THE INSIDE AND OUTSIDE FACES OF INTERSECTING BEAMS OR WALLS. REFER TO CORNER BAR DETAILS IN THE TYPICAL DETAILS.

    I) REFER TO THE COLUMN REINFORCING DIAGRAMS FOR ADDITIONAL TIES ABOVE AND BELOW THE FLOOR FRAMING MEMBERS.

12. BARS SHOWN IN THE SCHEDULE TO HOOK AT DISCONTINUOUS ENDS SHALL HAVE THE HOOK PLACED HORIZONTALLY AT EXTERIOR CORNERS.

13. PROVIDE NO, 3 DOWELS X 2'-0" AT I'-6" ON CENTER, WITH A 90 DEGREE HOOK AT ALL EDGES OF CONCRETE SLABS, UNLESS DETAILED OTHERWISE.

14. PROVIDE FOUNDATION DOWELS TO MATCH MASONRY WALL REINFORCEMENT. DOWELS SHALL EXTEND INTO THE CONCRETE AND CMU PER THE LAP SCHEDULES.

15. ALL CONTINUOUS REINFORCEMENT SHALL LAP 40 BAR DIAMETERS AT SPLICES. PROVIDE (I) NO. 6 x 6'-0" TOP AND BOTTOM (TWO 36" LEGS WITH 90 DEGREE BEND) AT EACH FACE OF GRADE BEAMS AT CORNERS AND INTERSECTIONS, AND AT I8" ON CENTER VERTICALLY AT WALLS.

16. PROVIDE (I) NO. 4 BAR x 4'-0" FOR ELEVATED SLABS AND (2) NO. 5 BARS x 4'-0" FOR SLAB ON GROUND AT ALL RE-ENTRANT CORNERS. PROVIDE (I) NO. 4 BAR x 4'-0" AROUND ALL RECTANGULAR OPENINGS OR COLUMN BLOCK OUTS UNLESS NOTED OTHERWISE. FOR ELEVATED SLABS, PLACE THE DIAGONAL BARS WITH I INCH OF CLEARANCE FROM TOP AND THE SIDES OF THE SLAB AT THE CORNERS. FOR SLAB ON GRADE, PLACE THE BARS AT MID DEPTH OR BELOW THE REINFORCING MAT AND 3 INCHES CLEAR FROM THE CORNER.

17. CONDUITS ARE NOT ALLOWED IN SLABS, BEAMS, WALLS OR COLUMNS. ALL CONDUITS SHALL BE SUSPENDED FROM OR ATTACHED TO THE CONCRETE STRUCTURE.

18. PROVIDE SLEEVES, MECHANICAL OPENINGS, CONDUITS, PIPES, RECESSES, DEPRESSIONS, CURBS AND ALL EMBEDDED ITEMS AS SHOWN ON THE ARCHITECTURAL AND MECHANICAL DRAWINGS OR AS REQUIRED BY EQUIPMENT MANUFACTURERS. MINIMUM CONCRETE BETWEEN SLEEVES SHALL BE 6". SHOP DRAWINGS SHALL CLEARLY INDICATE THE INSTALLATION OF THESE ITEMS. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED TO 3/4"x3/4" MINIMUM UNLESS NOTED OTHERWISE. DO NOT PROVIDE CHAMFERS AT INSIDE FACE OF OVERHEAD DOORS OR AT STOREFRONT OPENINGS.

19. BESIDES FOLLOWING ARTICLE 6.3 OF ACI 318 FOR EMBEDDED ITEMS FOLLOWING REQUIREMENTS SHALL BE MET:

    A) THE MINIMUM CLEAR DISTANCE BETWEEN CONDUITS AND PIPES SHALL BE 6".

    B) NONE PERMITTED IN COLUMNS WITHOUT PRIOR APPROVAL

20. ALL CONSTRUCTION JOINTS IN BEAMS AND WALLS SHALL BE PROVIDED WITH SHEAR KEYS AS SHOWN IN THE DETAILS.

21. SLEEVES PASSING HORIZONTALLY THROUGH GRADE BEAMS:

    A) LOCATE AT MIDDLE THIRD OF BEAM SPAN - MINIMUM 6" AWAY FROM AN INTERIOR MEMBER.

    B) LOCATE AT MIDDLE THIRD OF BEAM DEPTH.

    C) MAXIMUM DIAMETER OF SLEEVE TO BE ONE THIRD OF BEAM DEPTH OR 8" (WHICHEVER IS LESS).

    D) SPACING TO BE AT LEAST THREE SLEEVE DIAMETERS OR 6" (WHICHEVER IS GREATER).

    E) ADD ONE ADDITIONAL SCHEDULED STIRRUP ON EITHER SIDE OF THE SLEEVE. ADD (2) #5 x 5'-0" TOP AND BOTTOM CENTERED AT SLEEVE.

    F) NO SLEEVES LONGITUDINALLY IN BEAMS. PASS SLEEVES ONLY AT RIGHT ANGLES TO BEAMS.

22. ALL MIXING, TRANSPORTING, PLACING AND CURING OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE AMERICAN CONCRETE INSTITUTE, ACI 30I, LATEST EDITION.

23. ALL CONCRETE SHALL BE CONSOLIDATED WITH A CONCRETE VIBRATOR AS PER THE REQUIREMENTS OF ACI 3I8 AND ACI 308R, LATEST EDITION.

24. HOT WEATHER CONCRETING SHALL CONFORM TO ACI305 AND COLD WEATHER CONCRETING SHALL CONFORM TO ACI 306.

25. ALL BASE PLATES AND ANCHOR RODS SHALL BE PROTECTED WITH 3" (MIN.) OF CONCRETE. ANCHOR RODS SHALL BE FABRICATED FROM FULL BODIED STEEL RODS CONFORMING TO ASTM F1554 GR 36, WASHERS CONFORMING TO ASTM F844 AND NUTS CONFORMING TO ASTM A194 OR A563 AND HAVING THE SAME DIAMETER AS THE BOLT DIAMETER. BOLTS SHALL BE SET USING RIGID TEMPLATES.

26. HIGH DENSITY STYROFOAM SHALL BE PANELIZED POLYSTYRENE RIGID FORM INSULATION WITH MINIMUM COMPRESSIVE STRENGTH OF 40 PSI (EPSI9) PER ASTM D6817. THICKNESS SHALL BE AS INDICATED IN DETAILS AND DRAWINGS. AVAILABLE MANUFACTURERS INCLUDE: U.C. INDUSTRIES, INC, DOW CHEMICAL COMPANY, AND AMOCO PRODUCTS COMPANY.

POST INSTALLED ANCHORS

ANCHOR MATERIALS

1. MECHANICAL ANCHORS SHALL BE TESTED AND ASSESSED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ACI 355.2 QUALIFICATION OF POST-INSTALLED MECHANICAL ANCHORS IN CONCRETE AND COMMENTARY. ACCEPTABLE MECHANICAL ANCHORS ARE AS FOLLOWS:

   EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT TZ2

ANCHOR DIAMETER	MINIMUM EMBEDMENT
I/2 INCH	3-I/4"
5/8 INCH	4"
3/4 INCH	4-3/4"

2. ADHESIVE ANCHOR SYSTEMS SHALL BE TESTED AND ASSESSED IN ACCORDANCE WITH THE MOST RECENT EDITION OF ACI 355.4 QUALIFICATION OF POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE (355.4) AND COMMENTARY. ACCEPTABLE ADHESIVE ANCHORS ARE AS FOLLOWS:

   CHEMICAL ADHESIVE ANCHORS FOR CONCRETE SHALL BE HILTI HIT-HY I00 SYSTEM

ANCHOR DIAMETER OR BAR SIZE	MINIMUM EMBEDMENT
NO. 3 BAR	4"
I/2 INCH OR NO. 4 BAR	4-I/2"
5/8 INCH OR NO. 5 BAR	6"
3/4 INCH OR NO. 6 BAR	7"
7/8 INCH OR NO. 7 BAR	8"

   CHEMICAL ADHESIVE ANCHORS FOR MASONRY SHALL BE HILTI HIT-HY I00 SYSTEM

ANCHOR DIAMETER OR BAR SIZE	MINIMUM EMBEDMENT
NO. 3 BAR	4"
I/2 INCH OR NO. 4 BAR	4-I/2"
5/8 INCH OR NO. 5 BAR	5-3/4"
3/4 INCH OR NO. 6 BAR	6-3/4"

3. AN APPROVED EQUAL TESTED AND ASSESSED IN ACCORDANCE WITH ACI 355.4 AND PROVIDING THE MINIMUM BOND STRESS VALUES BELOW FOR THE SPECIFIED CONDITIONS. BULK-MIXED (E.G., BUCKET-MIXED) ADHESIVES ARE NOT PERMITTED.

4. ADHESIVE ANCHORS SELECTED FROM PARAGRAPH ABOVE SHALL BE SUPPLIED AS AN ENTIRE SYSTEM. THE SYSTEM SHALL INCLUDE, BUT IS NOT LIMITED TO, MANUFACTURERS PRINTED INSTALLATION INSTRUCTIONS (MPII) AS SUPPLIED WITH THE ADHESIVE, ADHESIVE CARTRIDGE, MIXING NOZZLE, EXTENSION TUBE, DISPENSER, AND ALL REQUIRED EQUIPMENT FOR PROPERLY CLEANING THE DRILLED HOLE.

5. ANCHOR DESIGN SHALL BE IN ACCORDANCE WITH CHAPTER I7 OF ACI 318 MOST RECENT EDITION. FOR ADHESIVE ANCHORS, THE FOLLOWING MINIMUM DESIGN VALUES FOR BOND STRESS WERE ASSUMED FOR THE DESIGN USING THE ABOVE ADHESIVE ANCHOR ASSEMBLIES FOR IMPACT- OR ROCK-DRILLED HOLES:

   A) CRACKED CONCRETE BOND STRESS:
      CR = 2500 PSI
   B) UNCRACKED CONCRETE BOND STRESS:
      UNCR = 3000 PSI

6. ALL-THREADED ROD (EYEBOLTS, THREADED STUDS, INTERNAL THREADED PARTS) TO BE USED IN ADHESIVE ANCHOR ASSEMBLIES SHALL CONFORM TO ASTM A36, AI93 (GRADE B7), A307, B348 (BD), F1554 OR OTHER APPROVED ANCHOR ASSEMBLY TYPES. (STAINLESS STEEL ANCHOR RODS SHALL BE AISI TYPE 304 OR TYPE 316.) THREADS SHALL BE UNC COARSE THREADS, UNLESS NOTED OTHER-WISE.

7. COMPATIBLE NUTS AND WASHERS SHALL BE FURNISHED WITH THE ALL-THREAD ROD AND CONSIDERED PART OF THE ASSEMBLY. THE COST OF THE HARDWARE SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLED ADHESIVE ANCHOR ASSEMBLY.

8. NUTS, WASHERS, AND OTHER HARDWARE USED WITH AN ALL-THREADED BAR ADHESIVE ANCHOR SYSTEM OR WITH A MECHANICAL EXPANSION ANCHOR SHALL HAVE A MATERIAL OR AN ALLOY DESIGNATION THAT IS COMPATIBLE WITH THE ANCHOR ROD/ALLOY. GALVANIZED ASSEMBLIES SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. ELECTROPLATE GALVANIZING IS NOT ACCEPTABLE. DISSIMILAR METAL ASSEMBLIES SHALL BE SEPARATED BY NYLON, EPDM, OR OTHER APPROVED NON-METALLIC WASHERS.

9. REINFORCING BARS TO BE USED IN ADHESIVE ANCHOR ASSEMBLIES (E.G., AS ANCHOR REINFORCEMENT) OR AS POST-INSTALLED REINFORCING SHALL CONFORM TO ASTM A615, A706, A995, OR AI035.

GENERAL INSTALLATION GUIDELINES

1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) OF 2,500 PSI AT THE TIME OF ADHESIVE ANCHOR INSTALLATION.

2. CONCRETE AT TIME OF ADHESIVE ANCHOR INSTALLATION SHALL HAVE A MINIMUM AGE OF 2I DAYS. FOR INSTALLATION OF ADHESIVE ANCHORS IN CONCRETE HAVING AN AGE LESS THAN 2I DAYS, TESTS SHALL BE CONDUCTED TO VERIFY THE PERFORMANCE OF THE PRODUCT IN ACCORDANCE WITH ACI 355.4.

3. THE CONCRETE TEMPERATURE AT THE TIME OF ADHESIVE ANCHOR INSTALLATION SHALL BE AT LEAST 50°F UNLESS TESTING HAS BEEN CONDUCTED IN ACCORDANCE WITH RECOGNIZED CRITERIA TO VERIFY PERFORMANCE IN CONCRETE AT LOWER TEMPERATURES.

4. EMBEDMENT DEPTH AND MINIMUM ANCHOR PROJECTION OF THE ANCHOR ELEMENT FROM THE CONCRETE SURFACE SHALL BE AS SHOWN ON THE DRAWING OR DETAIL FOR THE PARTICULAR ANCHOR OR GROUP OF ANCHORS BEING INSTALLED.

5. ADHESIVE CARTRIDGES SHALL BE STORED UNDER CONDITIONS IN COMPLIANCE WITH MANUFACTURER RECOMMENDATIONS REGARDING TEMPERATURE, EXPOSURE TO SUNLIGHT, ETC. AND EVIDENCE OF COMPLIANCE SHALL BE MADE AVAILABLE UPON REQUEST. THE USE OF EXPIRED ADHESIVE, AS INDICATED BY THE EXPIRATION DATE ON THE CARTRIDGE, IS PROHIBITED.

INSTALLATION

1. ADHESIVE ANCHORS SHALL BE INSTALLED BY QUALIFIED PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. BOTH POST-INSTALLED EXPANSION AND ADHESIVE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). ADHESIVE ANCHORS WITH DIAMETER GREATER THAN 3/8-INCH INSTALLED IN ORIENTATIONS FROM HORIZONTAL TO VERTICAL SHALL EMPLOY A PISTON PLUG FOR THE ADHESIVE INJECTION.

2. INSTALLATION OF ADHESIVE ANCHORS IN ORIENTATIONS FROM HORIZONTAL TO VERTICAL TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY THE ACI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR EQUIVALENT. THESE ANCHORS ARE DESIGNATED WITH A (CERT) AFTER THE ANCHOR CALLOUT. NOTE: SOME DOWN-HOLE INSTALLATIONS SHOWN ON DRAWINGS SUPPORT SUSTAINED TENSION LOADS AND ARE SO DESIGNATED WITH A (CERT) AFTER THE ANCHOR CALLOUT.

3. THE INSTALLER'S QUALIFICATIONS SHALL BE SUBMITTED AND APPROVED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

4. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT REQUIRED TO INSTALL THE EXPANSION AND/OR ADHESIVE ANCHOR INCLUDING, BUT NOT LIMITED TO, DRILLS, SETTING TOOLS, CLEAN OUT BRUSHES, BLOWOUT BULBS, OIL FREE COMPRESSED AIR, VACUUMS, WRENCHES, ETC.

5. UNLESS OTHERWISE SPECIFIED, ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH A ROTARY IMPACT HAMMER DRILL OR, WHERE NOT OTHERWISE PRESCRIBED, A ROCK DRILL. WHERE SPECIFIED AND WHERE PERMITTED BY THE MPII, HOLES MAY BE DRILLED WITH A DIAMOND CORE DRILL. IN ALL CASES, THE BIT DIAMETER SHALL BE IN ACCORDANCE WITH THE MPII.

6. ANCHOR HOLES SHALL BE THOROUGHLY CLEANED IN ACCORDANCE WITH THE PROCEDURES SPECIFIED IN THE MPII PRIOR TO ADHESIVE INJECTION.

7. DRILLED AND CLEANED ANCHOR HOLES SHALL BE PROTECTED FROM CONTAMINATION AND WATER (E.G. RAIN) UNTIL THE ADHESIVE IS INSTALLED.

8. A DRILLED ANCHOR HOLE SHALL BE RE-CLEANED JUST PRIOR TO ADHESIVE INJECTION IF, IN THE OPINION OF THE ENGINEER, INSPECTOR, OR ARCHITECT'S REPRESENTATIVE, THE HOLE HAS BECOME CONTAMINATED AFTER INITIAL CLEANING.

9. ADHESIVE SHALL BE INJECTED IN ACCORDANCE WITH THE MPII USING EQUIPMENT AND PROCEDURES AS SPECIFIED THEREIN FOR THE SPECIFIC CONDITIONS ASSOCIATED WITH THE INJECTION. THIS SHOULD BE CLEARLY SPECIFIED IN THE MPII, IF NOT, ANOTHER PRODUCT SHOULD BE SPECIFIED.

10. ANCHOR ELEMENTS TO BE INSTALLED IN THE ADHESIVE SHALL BE CLEAN, OIL FREE, AND FREE OF LOOSE RUST, PAINT, OR OTHER COATINGS. THREADS ON THE PROJECTING PORTION OF THE ANCHOR ELEMENT SHALL BE PROTECTED FROM ADHESIVE CONTAMINATION.

11. INSTALLED ADHESIVE ANCHORS SHALL BE SECURELY FIXED IN-PLACE TO PREVENT DISPLACEMENT WHILE THE ADHESIVE CURES. UNLESS SHOWN OTHERWISE ON THE DRAWINGS, ANCHORS SHALL BE INSTALLED PERPENDICULAR TO THE CONCRETE SURFACE. ANCHORS DISPLACED BEFORE FULL ADHESIVE CURE SHALL BE CONSIDERED DAMAGED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

12. POST-INSTALLED REINFORCING BARS OR ALL-THREADED BARS SHALL NOT BE BENT AFTER BEING INSTALLED UNLESS PERMITTED BY THE SER.

12. POST-INSTALLED REINFORCING BARS OR ALL-THREADED BARS SHALL NOT BE BENT AFTER BEING INSTALLED UNLESS PERMITTED BY THE SER.

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STRUCTURAL STEEL

1. ALL GROUT USED UNDER STEEL COLUMN BASE PLATES SHALL BE OF NON-SHRINKABLE TYPE CONFORMING TO ASTM C1090 AND THE CORPS OF ENGINEERS SPECIFICATION CRD-C-621 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI. 100 PERCENT OF VOID UNDER ALL BASE PLATES IS TO BE GROUTED. ALL BASE PLATES WITH A DIMENSION GREATER THAN 24" SHALL HAVE TWO 1" DIAMETER GROUT HOLES. IF THE SPACE UNDER A COLUMN BASE PLATE IS LESS THAN 1/4", A PRESSURE INJECTION SYSTEM SHALL BE USED. PRE-GROUTING OF THE BASE PLATES IS NOT PERMITTED

2. ALL STRUCTURAL STEEL DESIGN, DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO LOAD AND RESISTANCE FACTOR DESIGN (LRFD) ACCORDING TO THE 2005 AISC SPECIFICATION.

3. ALL WELDING SHALL CONFORM TO THE STANDARDS OF THE THIRTEENTH EDITION OF THE MANUAL STEEL CONSTRUCTION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AND THE AMERICAN WELDING SOCIETY ANSI/AWS D1.1 STRUCTURAL WELDING CODE-STEEL. WELDING OF REINFORCING BARS SHALL COMPLY TO THE AMERICAN WELDING SOCIETY AWS D1.4. SHORT CIRCUIT TRANSFER FOR THE GAS METAL ARC WELDING PROCESS IS NOT PERMITTED.

4. ELECTRODES FOR ALL FIELD AND SHOP WELDING SHALL BE CLASS E70XX LOW HYDROGEN.

5. ALL STRUCTURAL STEEL ROLLED SHAPES SHALL CONFORM TO ASTM A992, AND ALL ANGLES, BARS, CHANNELS AND PLATES SHALL CONFORM TO ASTM A36. ALL SQUARE AND RECTANGULAR TUBES (Fy 50 KSI) SHALL CONFORM TO ASTM A500 GRADE C AND ROUND PIPES (Fy 50 KSI) SHALL CONFORM TO ASTM A500 GR C. ALL COLD-FORMED GIRTS AND PURLINS SHALL CONFORM TO ASTM A570M GR. 55.

6. ALL STRUCTURAL STEEL DETAILS AND CONNECTIONS SHALL CONFORM TO STANDARDS OF THE AISC. DOUBLE CONNECTIONS THROUGH COLUMN WEBS, BEAMS THAT FRAME OVER THE TOP OF COLUMNS, AND BEAM TO BEAM CONNECTIONS SHALL HAVE A BEAM ERECTION SEAT OR A STAGGERED CONNECTION WITH AT LEAST ONE INSTALLED BOLT REMAINING IN PLACE TO SUPPORT THE FIRST BEAM WHILE THE SECOND BEAM IS BEING ERECTED.

7. CONNECTIONS NOT DETAILED ON THE DRAWINGS SHALL BE SELECTED FROM THE TABLES IN PART 10 OF THE THIRTEENTH EDITION OF THE MANUAL OF STEEL CONSTRUCTION OF THE AISC. TABLE 10-1 MAY BE USED FOR ALL-BOLTED DOUBLE ANGLE CONNECTIONS. TABLE 10-2 MAY BE USED FOR WELDED/BOLTED DOUBLE ANGLE CONNECTIONS. TABLE 10-3 MAY BE USED FOR ALL-WELDED DOUBLE ANGLE CONNECTIONS. BEAM REACTIONS USED SHALL BE ONE-HALF THE TOTAL ALLOWABLE UNIFORM LOAD GIVEN IN TABLE 3-6 THROUGH 3-9 IN PART 3 OF THE MANUAL OF STEEL CONSTRUCTION OF THE AISC. CONNECTIONS FOR COMPOSITE BEAMS SHALL HAVE THE STANDARD AISC CAPACITY INCREASED BY 35 PERCENT.

8. ALL MISCELLANEOUS WELDS (FIELD OR SHOP) SHALL BE MINIMUM SIZE FILLET ALL AROUND IN ACCORDANCE WITH AISC. IT IS ASSUMED TO BE THE PLATE THICKNESS OF THE THINNEST PIECE MINUS 1/16". WELDING OF CONTINUOUS MEMBERS SHALL BE A MINIMUM OF 2 INCHES OF 3/16 INCH FILLET STITCH WELDS AT 12 INCHES O.C., STAGGERED EACH SIDE, UNLESS OTHERWISE NOTED. COLUMN BASE PLATES, CAP PLATES AND STIFFENER PLATES SHALL BE WELDED ALL AROUND.

9. PROVIDE COLUMN CAP PLATES AS FOLLOWS UNLESS NOTED OR DETAILED OTHERWISE:

   A) FOR DECK BEARING — 1/4 INCH THICK FOR ALL HSS SECTIONS AND WIDE FLANGE SECTIONS WHERE BEAMS DO NOT FRAME INTO BOTH SIDES OF THE WEB

   B) FOR JOIST BEARING
      1) K-SERIES JOISTS — 1/2 INCH THICK
      2) LH AND DLH — 3/4 INCH THICK
      3) JOIST GIRDERS — 1 INCH THICK

   C) FOR BEAM BEARING — SEE TYPICAL DETAILS OF 3/4 INCH MINIMUM UNLESS NOTED OTHERWISE

   D) FOR MOMENT CONNECTS — REFER TO TYPICAL MOMENT CONNECTION DETAILS

   E) ALWAYS PROVIDE CAP PLATES FOR SQUARE, RECTANGULAR, AND ROUND HSS COLUMNS

10. WEB STIFFENERS SHALL BE PROVIDED IN WIDE FLANGE SHAPES AS FOLLOWS:

   A) COLUMN WEBS AT FULLY DEVELOPED MOMENT CONNECTIONS — STIFFENERS SHALL BE COMPLETE PENETRATION GROOVE WELDED WITH SAME THICKNESS AND GRADE AS THE BEAM FLANGES. WHERE MOMENT CONNECTIONS OCCUR ON COLUMN FLANGES AND COLUMN WEBS, STIFFENER THICKNESS SHALL BE EQUAL THE VECTOR SUMMATION OF THE RESPECTIVE BEAM FLANGE THICKNESSES.

   B) BEAM WEBS WHERE BEAMS BEAR ON A COLUMN — SAME THICKNESS AND STRENGTH AS COLUMN FLANGES.

   C) BEAM WEBS WHERE COLUMN BEARS ON A BEAM (POST UP OR STUB COLUMN) — SAME THICKNESS AND STRENGTH AS COLUMN FLANGES.

11. PROVIDE ALL NECESSARY HOLES IN MISCELLANEOUS STRUCTURAL STEEL MEMBERS FOR ATTACHMENT OF NON-STRUCTURAL ITEMS (IE: HOLES FOR WINDOW HEAD ANCHORS), SEE ARCHITECTURAL DRAWINGS FOR REQUIREMENTS.

12. SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.

13. ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS): WHERE NOTED ON PLANS OR BY THE ARCHITECT SHALL CONFORM TO AISC 303 SECTION 10

14. ALL CONNECTION BOLTS FOR STRUCTURAL STEEL MEMBERS SHALL CONFORM TO ASTM A325 EXCEPT WHERE NOTED OTHERWISE. MINIMUM SIZE SHALL BE 3/4 INCH DIAMETER UNLESS NOTED OTHERWISE. BOLTS SHALL BE DIRECT TENSION INDICATING BOLTS CONFORMING TO ASTM F1852 WITH HARDENED WASHERS UNDER THE NUT AND SACRIFICIAL SPLINES. HEX NUTS SHALL CONFORM TO ASTM A563 AND WASHERS SHALL CONFORM TO ASTM F436.

15. SHOP BOLTED CONNECTIONS ARE PERMISSIBLE IF SUFFICIENT BOLT CLEARANCE IS AVAILABLE FOR TIGHTENING OF HIGH STRENGTH BOLTS. CLEARANCES SHALL BE IN ACCORDANCE WITH TABLE 7-16 AND 7-17 OF THE THIRTEENTH EDITION OF THE MANUAL OF STEEL CONSTRUCTION OF THE AISC. ALL STEEL MEMBERS AND ASSEMBLIES SHALL BE SHOP FABRICATED TO THE GREATEST EXTENT POSSIBLE. TRUSSES SHALL BE FULLY SHOP ASSEMBLED. FIELD SPLICES FOR SHIPPING SHALL ONLY BE AS APPROVED BY THE ENGINEER OF RECORD. THE STEEL FABRICATOR AND THE STEEL ERECTOR SHALL COORDINATE THE SHOP FABRICATION, SHIPPING AND ERECTION OF ALL STRUCTURAL MEMBERS AND ASSEMBLIES.

16. ALL BRICK SUPPORT ANGLES ARE DESIGNED TO FULLY SUPPORT THE BRICK VENEER WITH SOME NORMAL DEFLECTION AS THE BRICK IS INSTALLED. LEDGER ANGLE FOR FASCIA BRICK SUPPORT SHALL BE INSTALLED SUCH THAT THE SWEEP OR CAMBER DOES NOT EXCEED 1/8 INCH DEVIATION FROM STRAIGHT. BRICK SHALL BE INSTALLED WITHOUT SHORING THE SUPPORT ANGLE DURING CONSTRUCTION. SHORING THE BRICK DURING CONSTRUCTION CAN RESULT IN HORIZONTAL BED JOINT CRACKING WHEN THE SHORES ARE REMOVED.

17. HEADED ANCHORS SHALL BE MANUFACTURED FROM COLD DRAWN WIRE CONFORMING TO ASTM A108, GR.50 WITH FLUXED ENDS. STUDS SHALL BE AUTOMATICALLY END WELDED WITH SUITABLE STUD WELDING EQUIPMENT IN ACCORDANCE WITH AWS D1.1. STUDS FOR EMBEDDED PLATES AND OTHER ANCHORS SHALL BE SHOP WELDED. STUDS FOR COMPOSITE BEAMS SHALL BE FIELD WELDED.

18. ALL STRUCTURAL STEEL WHICH IS OUTSIDE THE BUILDING ENVELOPE SHALL BE HOT DIPPED GALVANIZED. ZINC COATING SHALL MEET THE REQUIREMENTS OF ASTM 123-73, WITH A MINIMUM COATING CLASS OF G100 AND SHALL BE APPLIED AFTER FABRICATION. ALL FIELD WELDS SHALL BE GROUND SMOOTH AND TOUCHED UP WITH A ZINC RICH PAINT.

19. STEEL COLUMNS SHALL BE SPLICED A MINIMUM OF 4'-0" ABOVE THE FINISH FLOOR IN STORIES WHERE SPLICES OCCUR. COLUMNS SHALL BE SPLICED EVERY TWO LEVELS. COLUMNS SHALL HAVE HOLES FOR 3/4" DIAMETER SAFETY CABLES OR PLATES WITH A HOLE WELDED TO THE COLUMN. PROVIDE AN L3x3x1/4 DECK SUPPORT ANGLE ON ALL SIDES OF THE COLUMN.

20. THE GENERAL CONTRACTOR AND HIS SUBCONTRACTOR'S SHALL COMPLY TO OSHA 29 CFR 1926 SUBPART R, SAFETY STANDARDS FOR STEEL ERECTION.

21. AS SCOPE AND PERFORMANCE DOCUMENTS, THE DRAWINGS AND SPECIFICATIONS DO NOT INDICATE OR DESCRIBE ALL OF THE WORK REQUIRED FOR THE PERFORMANCE AND COMPLETION OF THIS WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE FABRICATION AND INSTALLATION OF ALL MISCELLANEOUS METAL ITEMS INDICATED, DESCRIBED, OR IMPLIED ON THE STRUCTURAL AND/OR THE ARCHITECTURAL DRAWINGS. MISCELLANEOUS STEEL ITEMS, WITHIN AN ASSEMBLY AND NOT ATTACHED TO THE STRUCTURE, ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS WHETHER THEY ARE SHOWN OR NOT SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS. SUCH ASSEMBLIES INCLUDE BUT ARE NOT LIMITED TO, EXTERIOR AND INTERIOR WALL ASSEMBLIES, CEILING ASSEMBLIES, PARTITION ASSEMBLIES, SHELF AND CABINET ASSEMBLIES AND ALL OTHER SIMILAR ASSEMBLIES. ANY MISCELLANEOUS METAL ITEMS INDICATED ON THE ARCHITECTURAL DRAWINGS AND NOT SHOWN ON STRUCTURAL DRAWINGS SHALL BE A MINIMUM OF L4x4x1/2", C7x9.8, 3/8" PLATE OR HSS4x4x3/8" UNLESS OTHERWISE APPROVED BY THE STRUCTURAL ENGINEER.

TIMBER NOTES

1. TIMBER SHALL CONFORM TO NATIONAL DESIGN SPECIFICATION FOR STRESS GRADE LUMBER AND ITS FASTENINGS, NATIONAL FOREST PRODUCTS ASSOCIATES LATEST EDITION.

2. MATERIALS FOR FRAMING LUMBER SUBJECT TO BENDING STRESSES SUCH AS BEAMS, JOISTS, RAFTERS, HEADERS, AND OTHER HORIZONTAL MEMBERS SHALL BE SOUTHERN PINE NO. 2 KD (MC 15) CONSTRUCTION MINIMUM, UNLESS A HIGHER GRADE IS SHOWN ON THE DRAWINGS.

3. MATERIALS FOR STUD WALLS AND COLUMNS SHALL BE SOUTHERN PINE NO. 2 GRADE TIMBER OR EQUIVALENT DOUGLAS FIR-LARCH UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

4. MATERIALS MUST BE GRADE MARKED.

5. LAMINATED STRUCTURAL LUMBER (LSL), OTHER THAN GLULAM MEMBERS, SHALL BE PARALLEL STRAND LUMBER HAVING THE FOLLOWING MINIMUM DESIGN PROPERTIES:

MAXIMUM BENDING STRESS (Fb)	2,900 PSI
MODULUS OF ELASTICITY (E)	2,000,000 PSI
MAXIMUM COMPRESSIVE STRESS (Fc)	2,900 PSI
MAXIMUM SHEAR STRESS (Fv)	290 PSI

6. PLYWOOD ROOF DECKING SHALL BE APA RATED CD INTERIOR WITH EXTERIOR GLUE, THICKNESS AS SHOWN ON THE DRAWINGS. INSTALL PLYWOOD WITH FACE GRAIN ACROSS SUPPORTS. PROVIDE PLYWOOD SHEATHING CLIPS AT ALL FREE EDGES. PLYWOOD SPAN RATING SHALL BE 32/16. NAIL PLYWOOD TO FRAMING WITH 8d HOT-DIP GALVANIZED NAILS AS FOLLOWS:

ROOF ZONE NAILING PATTERNS:			
	FIRST 5' OF GABLED END	FIRST 4' FROM EDGE & RIDGE	ALL OTHERS
PANEL EDGES	4" O.C.	6" O.C.	6" O.C.
PANEL FIELD	6" O.C.	6" O.C.	12" O.C.

NAIL TO ALL SUPPORTS AT 4" O.C. FOR A 10'-0" SQUARE AREA AT CORNERS.

(USE 8d RING SHANK HOT-DIP GALVANIZED NAILS WHEN MEAN ROOF HEIGHT EXCEEDS 25 FEET)

7. PLYWOOD FLOOR DECKING SHALL BE APA RATED CD INTERIOR WITH EXTERIOR GLUE, THICKNESS AS SHOWN ON THE DRAWINGS. INSTALL PLYWOOD WITH FACE GRAIN ACROSS SUPPORTS. PLYWOOD SPAN RATING SHALL BE 48/24. NAIL PLYWOOD 6" O.C. ALONG PANEL EDGES AND 10" O.C. AT INTERMEDIATE SUPPORTS AND BLOCKING WITH 10d HOT-DIP GALVANIZED MINIMUM NAILS.

8. PLYWOOD WALL SHEATHING SHALL BE APA RATED CD INTERIOR WITH EXTERIOR GLUE, THICKNESSAS SHOWN ON THE DRAWINGS. SPAN RATING SHALL BE 32/16. NAIL PLYWOOD AT 4" O.C. ALONG PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS AND BLOCKING WITH 10d MINIMUM NAILS UNLESS SHOWN OTHERWISE ON THE DRAWINGS. EXTERIOR GYPSUM WALL SHEATHING (SEE ARCHITECTURAL DRAWINGS) SHALL BE NAILED AT 4" O.C. ALONG PANEL EDGES AND INTERMEDIATE SUPPORTS WITH NO. 11, 1 3/4" LONG, 7/16" HEAD HOT-DIP GALVANIZED NAILS MINIMUM.

9. DOUBLE JOISTS UNDER ALL PARTITIONS PARALLEL WITH JOISTS. LAP JOISTS 4 INCHES MINIMUM OVER DROPPED BEAMS AND BEARING PARTITIONS.

10. UNLESS OTHERWISE NOTED ON THE PLANS PROVIDE FIVE JOISTS DIRECTLY BELOW ALL LOAD BEARING PARTITIONS WHEN FLOOR JOISTS ARE PARALLEL TO PARTITIONS. WHEN LOAD BEARING PARTITIONS ARE PERPENDICULAR TO JOISTS USE DOUBLE JOISTS AT EACH LOCATION WHERE PARTITION CROSSES JOISTS, AND SOLID DOUBLE BLOCKING CONTINUOUSLY UNDER WALL. DOUBLE JOISTS EACH SIDE OF CHASE WALLS PARALLEL WITH JOISTS AND PROVIDE 2x SOLID BLOCKING AT48 INCHES ON CENTER BETWEEN DOUBLE JOISTS.

11. BRIDGING BETWEEN JOISTS AND RAFTERS SHALL BE 1x4 WOOD OR 16 GAGE HOT-DIP GALVANIZED STEEL CROSS-BRIDGING OR 2x SOLID BRIDGING AT ALL BEARING LOCATIONS AND AT 8 FOOT MAXIMUM INTERVALS.

12. BEAMS MADE UP OF MULTIPLE 2x PIECES SHALL NOT BE SPLICED EXCEPT OVER SUPPORTS. ALL MULTI PLY MEMBER BEAMS SHALL BE ATTACHED TOGETHER BY GLUEING AND NAILING WITH 10d NAILS AT 6" O.C. TOP AND BOTTOM FOR EACH PLY. FLITCH BEAMS WITH STEEL PLATES SHALL BE BOLTED TOGETHER WITH 1/2" DIAMETER HOT-DIP GALVANIZED A307 THRU BOLTS AT 1'-0" O.C. STAGGERED FROM TOP TO BOTTOM.

13. PROVIDE TRIPLE STUDS AT ALL CORNERS AND AT ALL BEAM BEARINGS THROUGH TO FOUNDATION UNLESS NOTED OTHERWISE. PROVIDE STUDS AT BEAM BEARINGS TO MATCH BEAM WIDTH WHERE BEAM WIDTH EXCEEDS 4 1/2 INCHES.

14. ANCHOR WOOD SILLS (PRESSURE TREATED) TO CONCRETE WITH 1/2" DIA. x 9" LONG HOT-DIP GALVANIZED, HOOKED ANCHOR BOLTS WITH 9/16" WIDE TYPE "B" HOT-DIP GALVANIZEDWASHERS EMBEDDED 7" MINIMUM AT 48 INCHES MAX. O.C. AT CORNERS AND DOOR OPENINGS PROVIDE ONE ANCHOR BOLT AT 8 INCHES IN EACH DIRECTION FROM CORNER. PROVIDE TWO BOLTS MINIMUM PER PIECE OF SILL PLATE.

15. HOLES NO GREATER THAN 1/3 THE DEPTH OF THE JOIST MAY BE CUT HORIZONTALLY THRU JOISTS AND SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OF THE JOIST.

16. PREFABRICATED TIMBER TRUSSES SHALL BE FABRICATED BY A CERTIFIED TIMBER TRUSS MANUFACTURER.

17. TRUSSES SHALL BE FABRICATED WITH WOOD CHORDS AND WEBS IN ACCORDANCE WITH THE NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION, ANSI/TPI 1, LATEST EDITION, BY THE TRUSS PLATE INSTITUTE.

18. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY BRACING FOR TIMBER TRUSSES. BRACING SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS FOR BRACING WOOD TRUSSES, PUBLICATION HIB, LATEST EDITION, BY THE TRUSS PLATE INSTITUTE.

19. TRUSS MANUFACTURER SHALL SUBMIT DRAWINGS FOR APPROVAL SHOWING ALL MEMBER FORCES, SIZES AND CONNECTORS. DRAWINGS SHALL BE SEALED BY A LICENSED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. ALL TEMPORARY AND PERMANENT BRACING OF THE TRUSSES SHALL BE DESIGNED AND DETAILED BY A LICENSED ENGINEER. CHANGES IN THE TRUSS LAYOUT SHOWN ON THE CONTRACT DRAWINGS BY THE TRUSS MANUFACTURER WILL REQUIRE CHANGES IN THE LOCATIONS AND QUANTITIES OF ROOF TRUSS AND ROOF GIRDER TRUSS UPLIFT ANCHORS AND HOLDOWNS AND SHEARWALL SIZES, LOCATIONS AND HOLDOWNS. GENERAL CONTRACTOR SHALL COORDINATE ANY CHANGES IN THE TRUSS LAYOUT WITH THE ENGINEER OF RECORD. ADDITIONAL DESIGN SERVICES DUE TO THESE CHANGES WILL BE CHARGED TO THE GENERAL CONTRACTOR.

20. TYPICAL TRUSS LOADING IS SHOWN ON THE DRAWINGS. THE MANUFACTURER SHALL EXAMINE THE DRAWINGS FOR SPECIAL CONDITIONS AND/OR LOADS NOT SHOWN AND PROVIDE FOR SUCH IN THE DESIGN.

21. AT BUILDING ENDS, SPECIAL GABLE-END TRUSSES SHALL BE USED. TRUSSES SHALL BE DESIGNED AND FABRICATED WITH VERTICAL STUDS NO MORE THAN 16 INCHES ON CENTER. NARROW FACE OF STUD SHALL BE PARALLEL TO FACE OF EXTERIOR WALL OR NARROW FACE OF STUD MAY BE PERPENDICULAR TO EXTERIOR FACE OF BUILDING. STUDS SHALL BRACED AS REQUIRED FOR THE DESIGN WIND LOAD. AT GABLE END WALLS, STUDS SHALL BE BALLOON FRAMED TO THE BOTTOM OF THE TRUSS.

22. PLANS AND DETAILS FOR FRAMING ARE A SCHEMATIC REPRESENTATION OF THE FRAMING AT VARIOUS LOCATIONS AND CONDITIONS ON THIS PROJECT. THE CONTRACTOR SHALL NOT SCALE OR COUNT FRAMING MEMBERS SHOWN AS A SUBSTITUTE FOR SHOP DRAWINGS AND AN ACCURATE QUANTITY TAKEOFF. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL FRAMING NECESSARY TO COMPLETELY FRAME THE PROJECT AND PROVIDE FOR ALL CONDITIONS SHOWN ON THE ARCHITECTURAL DRAWINGS.

23. JOIST AND RAFTER HANGERS, TIES, HOLDDOWNS AND OTHER PRE-ENGINEERED CONNECTORS SHALL BE "SIMPSON STRONG-TIE" OR APPROVED EQUAL. SIZE AND USAGE SHALL BE AS SHOWN ON THE DRAWINGS, SPECIFIED IN THESE NOTES AND AS RECOMMENDED BY THE MANUFACTURER. ALL CONNECTORS SHALL BE POST HOT-DIP GALVANIZED COATED AFTER FABRICATION OR STAINLESS STEEL.

24. INSTALL A SIMPSON "H10" OR TWO (2)-"H2.5A" METAL TIES AT THE CONNECTION BETWEEN ALL RAFTERS OR TRUSS ENDS WHERE THEY BEAR ON A WOOD SUPPORT FOR 10'-0" IN ANY DIRECTION FROM BUILDING CORNERS. DOUBLED UP CLIPS SHALL BE INSTALLED DIAGONALLY ACROSS FROM EACH OTHER ON OPPOSITE SIDES OF THE TOP PLATE. INSTALL A SIMPSON "H2.5A" AT ALL OTHER TRUSS ENDS. METAL ANCHORS AT ROOF GIRDER TRUSS LOCATIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE TABLE PROVIDED ON THE DRAWINGS. SIZE AND USAGE SHALL BE VERIFIED BY THE STRUCTURAL ENGINEER.

25. INSTALL A SIMPSON "H2.5A" METAL TIE AT THE TOP AND A SIMPSON "H3" METAL TIE AT THE BOTTOM OF EVERY EXTERIOR STUD WHERE THE STUD JOINS THE TOP PLATE AND SILL PLATE, WHERE AN "H2.5A" METAL TIE IS REQUIRED AT TRUSS ENDS. INSTALL TWO (2)- "H3" METAL TIES AT THE BOTTOM OF EVERY EXTERIOR STUD WHERE THE STUD JOINS THE SILL PLATE, WHERE "H10" TIES IS REQUIRED AT TRUSS ENDS. DOUBLED UP CLIPS SHALL BE INSTALLED DIAGONALLY ACROSS FROM EACH OTHER ON OPPOSITE SIDES OF THE TOP PLATE OR BOTTOM SILL PLATE.

26. ALL TIMBER OUTSIDE THE BUILDING ENVELOPE SHALL BE PRESSURE TREATED. ALL CONNECTIONS OUTSIDE THE BUILDING ENVELOPE SHALL BE MADE WITH HOT-DIP GALVANIZED BOLTS OR NAILS.

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MARK	DESCRIPTION	DATE

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LICENSED PROFESSIONAL ENGINEER
10 September 2026

DRAWING TITLE
GENERAL NOTES

DRAWN BY	JM	SHEET NO.	S002
CHECKED BY	BG		
APPROVED BY			

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STRUCTURAL TESTING AND INSPECTIONS

EARTHWORK TESTING

1. DURING EARTHWORK OPERATIONS KEEP A COMPETENT TRAINED TECHNICIAN ASSIGNED TO THE PROJECT. SERVICES PROVIDED SHALL INCLUDE:
   - A) OBSERVE STRIPPING OPERATIONS AND EVALUATE THE REQUIRED STRIPPING DEPTH DURING THESE OPERATIONS.
   - B) OBSERVE PROOFROLLING OPERATIONS AFTER SITE STRIPPING. DETERMINE IF ANY SOFT SPOTS NEED TO BE UNDERCUT TO FIRM SOILS, REPLACED WITH SELECT FILL AND RECOMPACTED.
   - C) VERIFY THAT THE SUBGRADE SHALL THEN BE SCARIFIED AND MOISTURE CONDITIONED TO A SIX (6) INCH DEPTH AND THEN RECOMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN OPTIMUM AND +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT. PROVIDE A MINIMUM OF FOUR (4) FIELD DENSITY TESTS ON THE SUBGRADE OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER.
   - D) STRUCTURAL SELECT FILL PAD MATERIAL SHALL BE TESTED FOR ACCEPTABILITY AND A MOISTURE DENSITY CURVE SHALL BE ESTABLISHED. SELECT FILL MATERIAL SHALL BE AN INORGANIC SANDY CLAY WITH LIQUID LIMIT BETWEEN 26 AND 35 AND PLASTICITY INDEX BETWEEN 12 AND 20.
   - E) SELECT FILL SHALL BE PLACED IN EIGHT INCH LOOSE LIFTS AND COMPACTED TO BETWEEN 95 AND 100 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST (ASTM D698). THE MOISTURE CONTENT SHALL BE BETWEEN -1 AND +3 PERCENT OF THE OPTIMUM MOISTURE CONTENT FOR SELECT FILL.
   - F) SELECT FILL MATERIAL SHALL BE TESTED DURING PLACEMENT OF EACH LIFT FOR THE ATTERBERG LIMITS IN ACCORDANCE WITH ASTM D4318-98 METHOD B "STANDARD TEST METHOD FOR LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS" TO VERIFY THAT THE SELECT FILL MATERIAL IS IN ACCORDANCE WITH THE ORIGINALLY APPROVED SELECT FILL MATERIAL. PROVIDE A MINIMUM OF ONE (1) TEST PER LIFT OR ONE (1) FOR EVERY 2,500 SQUARE FEET WHICHEVER IS GREATER WITH A MAXIMUM OF TEN (10) PER LIFT.
   - G) OBSERVE THE EXCAVATION DAILY AND ENSURE THAT THE CONTRACTOR MAINTAINS A CLEAN EXCAVATION THAT IS FREE OF WATER 100% OF THE TIME. CONTRACTOR SHALL PROVIDE PUMPS AS REQUIRED TO REMOVE ANY WATER AT ALL TIMES.
   - H) OBSERVE GRADING OPERATIONS TO ENSURE THAT PROPER DRAINAGE AWAY FROM THE BUILDING PAD IS PROVIDED.

SPREAD FOOTINGS TESTING

1. DURING SPREAD FOOTING OPERATIONS KEEP A COMPETENT TRAINED TECHNICIAN ASSIGNED TO THE PROJECT. SERVICES PROVIDED SHALL INCLUDE:
   - A) OBSERVING THE BOTTOM OF FOOTING FOR CLEANLINESS.
   - B) CHECKING FOOTING BOTTOM FOR PROPER BEARING MATERIAL.
   - C) NOTING DEPTH AND SIZE OF ALL FOOTINGS.
   - D) VERIFY QUANTITY, SIZE AND LOCATION OF REINFORCEMENT AND CLEAR COVER REQUIREMENTS.
   - E) CHECK FOR CAVING OF FOOTING WALLS.
   - F) CHECKING THAT THE PILASTER IS CONCENTRIC WITH THE FOOTING.
   - G) CHECKING THAT COLUMN OR GRADE BEAM DOWELS ARE LOCATED PROPERLY.
2. ENSURE THAT THE SPOILS FROM THE FOOTING EXCAVATIONS ARE REMOVED FROM THE BUILDING PAD.

CONCRETE TESTING

1. CONCRETE MIX DESIGNS SHALL BE SUBMITTED FOR REVIEW INDICATING CONFORMANCE WITH ACI 301, LATEST EDITION, CHAPTER 4, SECTION 4.2.3.
2. SLUMP TESTS, CONFORMING TO ASTM C143, SHALL BE TAKEN AT THE POINT OF DISCHARGE AT THE SAME RATE AS NOTED BELOW IN NOTE NUMBER 5.
3. AIR CONTENT TESTS CONFORMING TO ASTM C173, VOLUMETRIC METHOD FOR LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE; ASTM C231 PRESSURE METHOD FOR NORMAL WEIGHT CONCRETE; SHALL BE TAKEN FOR EACH DAY'S POUR OF EACH TYPE OF AIR-ENTRAINED CONCRETE.
4. CONCRETE TEMPERATURE SHALL BE TESTED HOURLY WHEN AIR TEMPERATURE IS 40 DEG F (4 DEG C) AND BELOW, WHEN 80 DEG F (27 DEG C) AND ABOVE, AND EACH TIME A SET OF COMPRESSION TEST SPECIMENS IS MADE.
5. ONE SET OF FOUR COMPRESSION TEST SPECIMENS CONFORMING TO ASTM C31 SHALL BE MOLDED AND STORED FOR LABORATORY-CURED SPECIMENS. COMPRESSIVE STRENGTH TESTS SHALL CONFORM TO ASTM C39 AND SHALL CONSIST OF ONE SET FOR EACH DAY'S POUR EXCEEDING 5 CU. YDS. PLUS ADDITIONAL SETS FOR EACH 50 CU. YDS. MORE THAN THE FIRST 25 CU. YDS OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY. ONE SPECIMEN SHALL BE TESTED AT 7 DAYS, TWO SPECIMENS SHALL BE TESTED AT 28 DAYS, AND ONE SPECIMEN SHALL BE RETAINED FOR LATER TESTING AS REQUIRED.
6. VERIFY CONCRETE IS BEING CONSOLIDATED IN ACCORDANCE WITH THE RECOMMENDATIONS OF ACI 318 AND ACI 308R, LATEST EDITION.
7. VERIFY THAT POST INSTALLED ANCHORS ARE AS SPECIFIED AND THAT THE ANCHORS ARE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.

REINFORCING STEEL INSTALLATION

1. DURING CAST-IN-PLACE CONCRETE STRUCTURAL MEMBER REINFORCING PLACEMENT OPERATIONS KEEP A COMPETENT TRAINED TECHNICIAN ASSIGNED TO THE PROJECT. INSPECT REINFORCING UTILIZING ACI 311.4R "GUIDE FOR CONCRETE INSPECTION" AS A GUIDE. SERVICES PROVIDED SHALL INCLUDE:
   - A) VERIFY TYPE AND GRADE OF ALL REINFORCING STEEL.
   - B) VERIFY REBAR IS FREE OF OIL, DIRT, EXCESSIVE RUST AND FROM DAMAGE IN SHIPMENT TO SITE.
   - C) VERIFY REINFORCING IS ADEQUATELY TIED, CHAIRED AND SUPPORTED TO PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT.
   - D) VERIFY MINIMUM AND MAXIMUM CLEAR DISTANCES BETWEEN BARS AND MINIMUM STRUCTURAL DISTANCE TO OUTSIDE OF CONCRETE.
   - E) VERIFY QUANTITY, SIZE AND LOCATION OF REINFORCEMENT.
   - F) VERIFY MINIMUM CONCRETE COVER IS MAINTAINED BETWEEN REBAR AND SURFACE OF CONCRETE.
   - G) VERIFY SIZE AND PLACEMENT OF REBAR. VERIFY LAP LENGTHS, LOCATIONS AND STAGGERS AND VERIFY BENDS FOR MINIMUM DIAMETER, SLOPE AND LENGTH. VERIFY HOOKED BAR LENGTHS AND LOCATIONS.

POST INSTALLED ANCHORS — FIELD QUALITY CONTROL

1. THE INTERNATIONAL BUILDING CODE (**IBC 2018**) REQUIRES SPECIAL INSPECTION OF ALL POST-INSTALLED ANCHORS. ACI 318-19 SECTIONS 26.13.1.5 AND 26.13.1.6 REQUIRE THAT ALL INSPECTIONS OF MECHANICAL AND ADHESIVE ANCHORS, RESPECTIVELY, ARE PERFORMED BY A CERTIFIED FIELD INSPECTOR SPECIFICALLY APPROVED FOR THAT PURPOSE BY THE SER AND THE BUILDING OFFICIAL. CERTIFICATION IS ESTABLISHED THROUGH AN INDEPENDENT ASSESSMENT SUCH AS THE ACI POST-INSTALLED CONCRETE ANCHOR INSTALLATION INSPECTOR PROGRAM OR SIMILAR PROGRAM WITH EQUIVALENT REQUIREMENTS. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS SHALL BE CONTINUOUSLY INSPECTED DURING INSTALLATION BY A CERTIFIED INSPECTOR.
2. POST-INSTALLED EXPANSION AND ADHESIVE ANCHORS SHALL BE PROOF LOADED AS REQUIRED IN THE CONTRACT DOCUMENTS. A PERCENTAGE OF EACH TYPE AND SIZE OF EACH TYPE OF SIZE OF ANCHOR ASSEMBLY SHALL BE PROOF LOADED IN TENSION BY AN INDEPENDENT TESTING LABORATORY UNLESS OTHERWISE SHOWN ON THE CONTRACT DOCUMENTS.
   - A) PROOF LOADING SHALL BE CONDUCTED AS CONFINED TENSION TESTING FOR ADHESIVE ANCHORS USING A CENTER-HOLE CYLINDER.
   - B) THE INDEPENDENT TESTING LABORATORY SHALL SUBMIT AN ANCHORAGE TESTING PLAN TO THE SER TO ENSURE THE TESTING REQUIREMENTS ARE FULFILLED.
   - C) PROOF LOAD RANDOM SAMPLE RATES AS FOLLOWS:

TYPE OF ANCHOR	SAMPLE RATE (PERCENT)
REINFORCING FOR SLAB ON GROUND	5
REINFORCING — GRADE BEAMS	30
REINFORCING — CONCRETE BEAMS	50
REINFORCING — CONCRETE COLUMNS	50
ANCHOR BOLTS NEW OR REPLACEMENT — SHEAR ONLY	25
ANCHOR BOLTS NEW OR REPLACEMENT — MOMENT FRAMES	50
ANCHORS FOR SHEAR TABS/PLATES OR ANGLES	30
ANCHORS IN TENSION — STRUCTURAL MEMBERS	50
ANCHORS IN TENSION — NON-STRUCTURAL MEMBERS	25
ANCHORS SUPPORTING LIFE SAFETY DEVICES	100

3. POST-INSTALLED EXPANSION AND ADHESIVE ANCHORS SHALL BE PROOF LOADED TO LOAD LEVELS AS SHOWN ON THE CONTRACT DOCUMENTS. OR AS INDICATED ON THE STRUCTURAL DRAWINGS FOR THE SPECIFIC ANCHOR TYPES ABOVE. PROOF LOADING OF ADHESIVE ANCHORS SHALL BE PERFORMED AFTER A MINIMUM CURING PERIOD SPECIFIED BY THE MANUFACTURER.
4. ANCHORS SHALL HAVE NO VISIBLE INDICATIONS OF DISPLACEMENT OR DAMAGE DURING OR AFTER PROOF LOAD APPLICATION. CONCRETE CRACKING IN THE VICINITY OF THE ANCHOR AFTER LOADING SHALL BE CONSIDERED A FAILURE.
5. IF AN ANCHOR FAILS, MODIFY ALL INSTALLATIONS OF THE SAME TYPE AND RETEST UNTIL SATISFACTORY RESULTS ARE ACHIEVED
6. IF MORE THAN 5 PERCENT OF THE TESTED ANCHORS FAIL TO ACHIEVE THE SPECIFIED PROOF LOAD WITHIN THE LIMITS DEFINED ON THESE DRAWINGS, THEN 100 PERCENT OF THE ANCHORS OF THE SAME DIAMETER AND TYPE AS THE FAILED ANCHOR SHALL BE PROOF TESTED, UNLESS OTHERWISE DIRECTED BY THE SER.
7. PROVIDE WRITTEN FASTENER LOAD TEST REPORTS AND INTERMITTENT SPECIAL INSPECTION REPORTS OF POST INSTALLED FASTENERS AS THE WORK PROGRESSES.

STRUCTURAL STEEL TESTING

1. CERTIFY WELDERS FOR THE WELD TYPES IN THE PROJECT AND CONDUCT INSPECTIONS AND TESTS AS REQUIRED, AS A MINIMUM, WELDERS SHALL BE AISC CERTIFIED. RECORD TYPES AND LOCATIONS OF DEFECTS FOUND IN WORK. RECORD WORK REQUIRED AND PERFORMED TO CORRECT DEFICIENCIES.
2. VISUALLY INSPECT 100% OF ALL FILLET WELDS.
3. VISUALLY INSPECT 100% OF ALL FULL PENETRATION WELDS. TEST 20% OF ALL FULL PENETRATION WELDS BY ONE OF THE FOLLOWING METHODS: LIQUID PENETRANT INSPECTION (ASTM E165), MAGNETIC PARTICLE INSPECTION (ASTM E709; PERFORMED ON THE ROOT PASS AND ON THE FINISHED WELD; CRACKS AND ZONES OF INCOMPLETE FUSION OR PENETRATION IS NOT ACCEPTABLE), RADIOGRAPHIC INSPECTION (ASTM E94 AND ASTM E142; MINIMUM QUALITY LEVEL OF "2-2T"), OR ULTRASONIC INSPECTION (ASTM E164). IF FAILURE RATE IS 20% OR GREATER, TEST 100% OF WELDS AT CONTRACTOR'S EXPENSE UNTIL FAILURE RATE FALLS BELOW 20%.
4. ALL WELDS THAT FAIL SHALL BE REWELDED AND RETESTED UNTIL THEY PASS THE TEST. TEST TWO ADDITIONAL WELDS AT THE CONTRACTOR'S EXPENSE FOR EVERY WELD FAILURE.
5. BOLTS SHALL BE VISUALLY INSPECTED WHEN TWIST-OFF SPLINES ARE USED, OTHERWISE BOLTS SHALL BE SNUG TIGHT.
6. ALL FULL PENETRATION WELDS AT MOMENT CONNECTIONS REQUIRING TESTING SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING LABORATORY USING NON-DESTRUCTIVE TESTING METHODS. FOR SHOP WELDS, CERTIFICATION SHALL BE SUBMITTED PRIOR TO SHIPPING TO THE JOB SITE. FOR FIELD WELDS, CERTIFICATION SHALL BE SUBMITTED PRIOR FLOOR DECK INSTALLATION AND CONCRETE PLACEMENT AND PRIOR TO COVERING CONNECTIONS WITH FIREPROOFING OR ARCHITECTURAL FINISHES.

MASONRY TESTING

1. MASONRY TESTING SHALL CONSIST OF A QUALIFIED TESTING LABORATORY PROVIDING THE FOLLOWING SERVICES:
   - A) VERIFY QUANTITY, SIZE AND SPACING OF REQUIRED REINFORCING SHOWN ON THE DRAWINGS.
   - B) OBSERVE THE INSTALLATION OF MASONRY UNITS.
   - C) INSPECTION OF GROUT SPACE, IMMEDIATELY PRIOR TO CLOSING OF CLEANOUTS AND PRIOR TO ALL GROUTING OPERATIONS. VERIFY THAT THE SPECIFIED CELLS HAVE BEEN FULLY GROUTED.
   - D) MONITOR THE PROPORTIONING, MIXING AND CONSISTENCY OF MORTAR AND GROUT. PROVIDE 28 DAY COMPRESSIVE STRENGTH TESTS ON EACH GROUT MIX IN ACCORDANCE WITH ASTM C1019. COMPRESSION TEST MASONRY PRISMS FOR EACH TYPE OF WALL CONSTRUCTION IN ACCORDANCE WITH ASTM C1314. CONTRACTOR SHALL PREPARE ONE SET OF PRISMS FOR TESTING AT 28 DAYS. TESTS ARE TO BE CONDUCTED FOR EACH 2000 SQUARE FEET OF WALL INSTALLED, BUT NOT LESS THAN TWO TESTS.

SPECIAL INSPECTIONS AND STRUCTURAL TESTING

SPECIAL INSPECTION WORK AND THE FINAL LETTER OF COMPLIANCE HAVE NOT BEEN INCLUDED IN THE STRUCTURAL ENGINEER OF RECORD'S SCOPE OF SERVICES. THE OWNER IS RESPONSIBLE FOR OBTAINING THE SERVICES OF THE SPECIAL INSPECTOR AND THE TESTING LABORATORY. SPECIAL INSPECTIONS CAN BE PROVIDED BY AN INDEPENDENT SPECIAL INSPECTOR APPROVED BY THE BUILDING AUTHORITY. THE SPECIAL INSPECTION WORK DOES NOT INCLUDE THE TESTING LABORATORY SERVICES AS CALLED FOR ON THE DRAWINGS. ARRANGEMENTS FOR SPECIAL INSPECTIONS SHOULD BE MADE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE TESTING LABORATORY AND SPECIAL INSPECTOR IN A TIMELY MANNER PRIOR TO PROCEEDING WITH CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK REQUIRING INSPECTIONS WITHOUT THE TESTING LABORATORY'S OR SPECIAL INSPECTOR'S PRESENCE.

STRUCTURAL STATEMENT OF SPECIAL INSPECTIONS

THE STRUCTURAL SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL STRUCTURAL INSPECTIONS AND SHALL FURNISH INSPECTION REPORTS TO THE OWNER AND THE STRUCTURAL REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE (SRDP). DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND THE SRDP. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES.

A FINAL REPORT OF SPECIAL INSPECTION DOCUMENTING COMPLETION OF ALL SPECIAL INSPECTIONS, TESTING AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE OWNER AND THE SRDP PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY AND USE.

STRUCTURAL SCHEDULE OF SPECIAL INSPECTIONS

QUALIFICATIONS OF INSPECTORS AND TESTING TECHNICIANS

THE QUALIFICATIONS OF ALL PERSONNEL PERFORMING SPECIAL INSPECTION AND TESTING ACTIVITIES ARE SUBJECT TO THE APPROVAL OF THE OWNER. THE CREDENTIALS OF ALL INSPECTORS AND TESTING TECHNICIANS SHALL BE PROVIDED TO THE SPECIAL INSPECTOR FOR THEIR RECORDS.

KEY FOR MINIMUM QUALIFICATION OF INSPECTION AGENTS

WHEN THE REGISTERED DESIGN PROFESSION IN RESPONSIBLE CHARGE OR SPECIAL INSPECTOR OF RECORD DEEMS APPROPRIATE THAT THE INDIVIDUAL PERFORMING THE STIPULATED TEST OR INSPECTION HAVE A SPECIFIC CERTIFICATION, LICENSE OR EXPERIENCE AS INDICATED BELOW. SUCH REQUIREMENT SHALL BE LISTED BELOW AND SHALL BE CLEARLY IDENTIFIED WITHIN THE SCHEDULE UNDER THE AGENT QUALIFICATION DESIGNATION.

PE/SE STRUCTURAL ENGINEER
A LICENSED SE OR PE SPECIALIZING IN THE DESIGN OF BUILDING STRUCTURES

PE/GE GEOTECHNCIAL ENGINEER
A LICENSED PE SPECIALIZING IN SOIL MECHANICS AND FOUNDATIONS

EIT OR ENGINEER IN TRAINING
A GRADUATE ENGINEER WHO HAS PASSED THE FUNDAMENTALS OF ENGINEERING EXAM

EXPERIENCED TESTING TECHNICIAN

ETT OR EXPERIENCED TESTING TECHNICIAN
AN EXPERIENCED TESTING TECHNICIAN WITH A MINIMUM OF 5 YEARS EXPERIENCE WITH THE STIPULATED TEST OR INSPECTION

AMERICAN CONCRETE INSTITUTE (ACI) CERTIFICATION

ACI-CFTT	CONCRETE FIELD-TESTING TECHNICIAN - GRADE 1
ACI-CCI	CONCRETE CONSTRUCTION INSPECTOR
ACI-LTT	LABORATORY TESTING TECHNICIAN - GRADE 1&2
ACI-STT	STRENGTH TESTING TECHNICIAN

AMERICAN WELDING SOCIETY (AWS) CERTIFICATION

AWS-CWI	CERTIFIED WELDING INSPECTOR
AWS/AISC-SSI	CERTIFIED STRUCTURAL STEEL INSPECTOR

CHAPTER 17 OF THE 2018 INTERNATIONAL BUILDING CODE IS INTERPRETED TO REQUIRE SPECIAL INSPECTION FOR THE FOLLOWING ITEMS IN THE FOLLOWING TABLES:

SCHEDULE OF SPECIAL INSPECTIONS

VERIFICATION/INSPECTION	SOIL/FOUNDATION INSPECTION		
IBC SECTION 1705.6, TABLE 1705.6	EXTENT CONTINUOUS, PERIODIC	COMMENTS	AGENT PE/GE, EIT OR ETT
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	PERIODIC		ETT
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL	PERIODIC		ETT
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	PERIODIC		ETT
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	CONTINUOUS		ETT
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	PERIODIC		ETT

SCHEDULE OF SPECIAL INSPECTIONS

VERIFICATION/INSPECTION	CONCRETE INSPECTION		
IBC SECTION 1705.3, TABLE 1705.3	EXTENT CONTINUOUS, PERIODIC	COMMENTS	AGENT PE/GE, EIT OR ETT
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	PERIODIC	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3 IBC 1908.4	ETT
2. REINFORCING BAR WELDING:			
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706	PERIODIC	AWS D1.4 ACI 318: 26.6.4	AWS-CWI
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"	PERIODIC		
C. INSPECT ALL OTHER WELDS	CONTINUOUS		
3. INSPECT ANCHORS CAST IN CONCRETE	PERIODIC	ACI 318: 17.8.2	ETT
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:			
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	CONTINUOUS	ACI 318: 17.8.2.4	ETT
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A	PERIODIC	ACI 318: 17.8.2	
5. VERIFY USE OF REQUIRED MIX DESIGN	PERIODIC	ACI 318: Ch. 19, 26.4.3, 26.4.4 IBC 1904.1, 1904.2, 1908.2, 1908.3	ETT
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONRETE	CONTINUOUS	ASTM C 172 ASTM C 31 ACI 318: 26.4, 26.12 IBC 1908.8	ACI-CFTT OR ACI-STT
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	CONTINUOUS	ACI 318: 26.5 IBC 1908.6, 1908.7, 1908.8	ETT
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	PERIODIC	ACI 318: 26.5.3-26.5.5 IBC 1908.9	ETT
9. INSPECT PRESTRESSED CONCRETE FOR:			
A. APPLICATION OF PRESTRESSING FORCES	CONTINUOUS	ACI 318: 26.10	ETT
B. GROUTING OF BONDED PRESTRESSING TENDONS	CONTINUOUS		
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	PERIODIC	ACI 318: Ch. 26.8	ETT
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	PERIODIC	ACI 318: 26.11.2	ETT
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	PERIODIC	ACI 318: 26.11.1.2(b)	ETT

SCHEDULE OF SPECIAL INSPECTIONS

VERIFICATION/INSPECTION	STRUCTURAL STEEL INSPECTION		
IBC SECTION 1705.2, AISC 360-10	EXTENT CONTINUOUS, PERIODIC	COMMENTS	AGENT PE/GE, EIT OR ETT
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS:			
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	PERIODIC	AISC 360 SECTION A3.3 AND ALL APPLICABLE ASTM MATERIAL STANDARDS	ETT
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	PERIODIC		ETT
2. INSPECTION OF HIGH-STRENGTH BOLTING:			
A. SNUG-TIGHT JOINTS	PERIODIC	AISC 360 SECTION M2.5 IBC 1704.3.3	AWS/AISC-SSI
B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST-OFF BOLT OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION	PERIODIC		
C. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHODS OF INSTALLATION.	CONTINUOUS		
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD- FORMED STEEL DECK			
A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360	PERIODIC	AISC 360 SECTION M5.5	ETT
B. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC	ALL APPLICABLE ASTM MATERIAL STANDARDS	ETT
C. MANUFACTURER'S CERTIFIED TEST REPORTS	PERIODIC		ETT
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS			
A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.	PERIODIC	AISC 360, SECTION A3.5 AND APPLICABLE AWS A5 DOCUMENTS	ETT
B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	PERIODIC		ETT
5. INSPECTION OF WELDING			
A. STRUCTURAL STEEL AND COLD-FORMED STEEL DECK			
1) COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS	CONTINUOUS	AWS D1.1 IBC 1704.3.1	AWS-CWI
2) MULTIPASS FILLET WELDS	CONTINUOUS		
3) SINGLE-PASS FILLED WELDS > 5/16"	CONTINUOUS		
4) PLUG AND SLOT WELDS	CONTINUOUS		
5) SINGLE-PASS FILLET WELDS ≤ 5/16"	PERIODIC		
6) FLOOR AND ROOF DECK WELDS	PERIODIC	AWS D1.3	AWS-CWI
B. REINFORCING STEEL			
1) VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706	PERIODIC	AWS D1.4 ACI 318: SECTION 3.5.2	AWS-CWI
2) REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS OF CONCRETE AND SHEAR REINFORCEMENT.	CONTINUOUS		
3) SHEAR REINFORCEMENT	CONTINUOUS		
4) OTHER REINFORCING STEEL	PERIODIC		
6. INSPECTION OF STEEL FRAMED JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:			
A. DETAILS SUCH AS BRACING AND STIFFENING	PERIODIC	IBC 1704.3.2	ETT
B. MEMBER LOCATIONS	PERIODIC		
C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION	PERIODIC		

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Project Number : 8989

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ISSUED FOR PERMIT	09/10/26
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE

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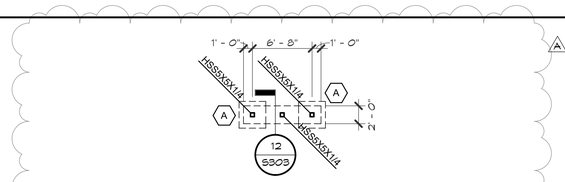
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STATE OF TEXAS
BRITT GARDNER
90958
LICENSED PROFESSIONAL ENGINEER
10 September 2026

DRAWING TITLE
TESTING AND INSPECTIONS

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CHECKED BY	BG	S003
APPROVED BY		

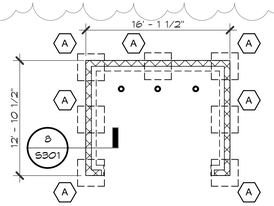
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NORTH

MONUMENT SIGN FOUNDATION PLAN

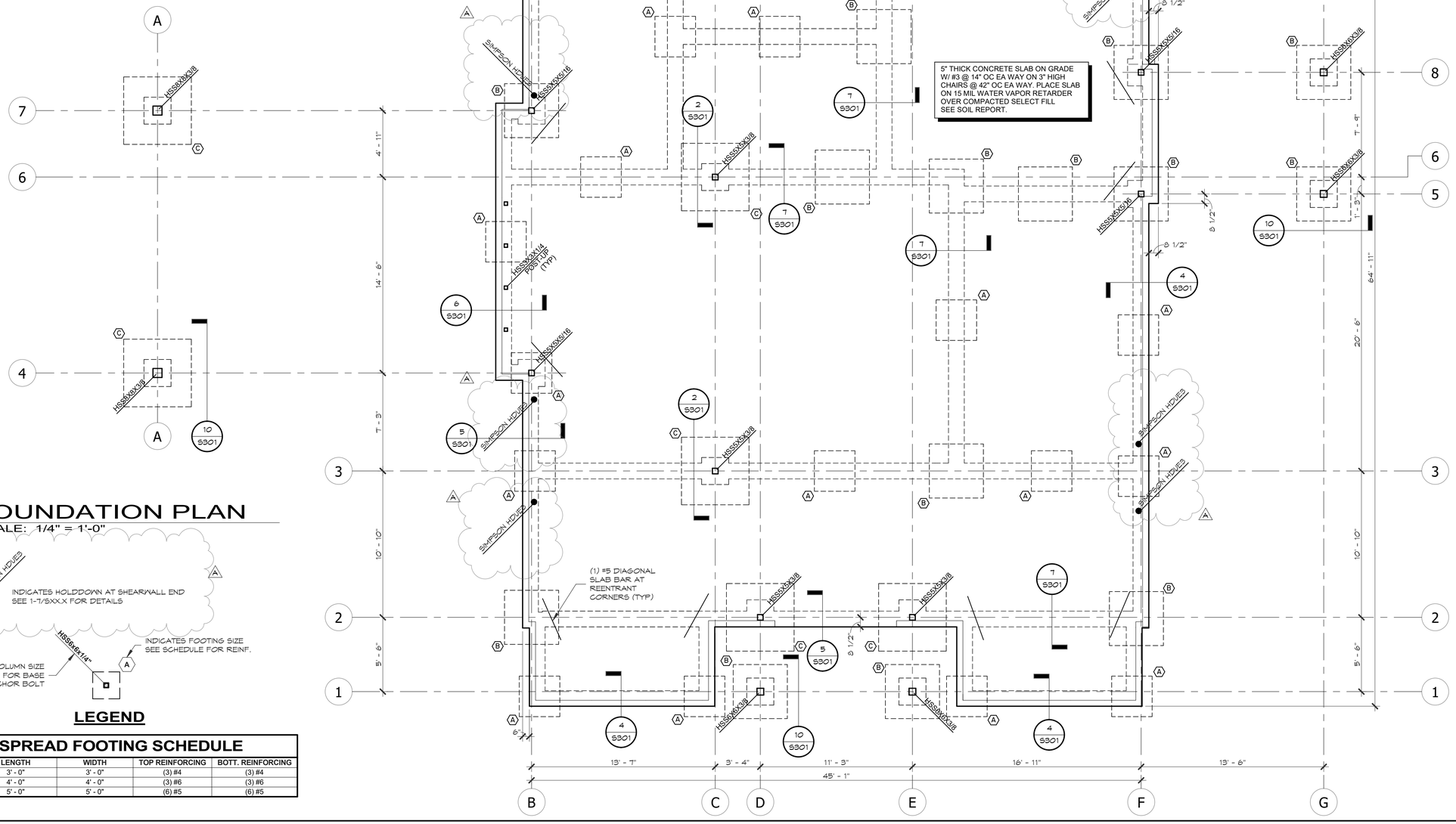
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NORTH

DUMPSTER FOUNDATION PLAN

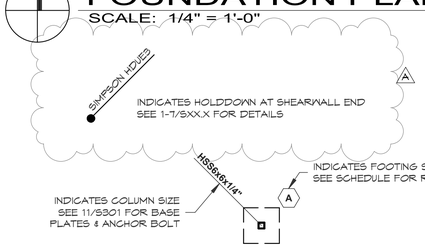
SCALE: 1/8" = 1'-0"



NORTH

FOUNDATION PLAN

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



LEGEND

SPREAD FOOTING SCHEDULE

MARK	LENGTH	WIDTH	TOP REINFORCING	BOTT. REINFORCING
A	3' - 0"	3' - 0"	(3) #4	(3) #4
B	4' - 0"	4' - 0"	(3) #6	(3) #6
C	5' - 0"	5' - 0"	(6) #5	(6) #5

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ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE
A	ADDENDUM A	09/18/26

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STATE OF TEXAS
BRITT GARDNER
90958
LICENSED PROFESSIONAL ENGINEER

18 September 2026

DRAWING TITLE
FOUNDATION PLAN

DRAWN BY	JM	SHEET NO.
CHECKED BY	BG	S101
APPROVED BY		

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NOTE:

1. THE LATERAL STABILITY OF THIS STRUCTURE IS DEPENDENT ON A NUMBER OF SHEARWALLS LOCATED THROUGHOUT THE BUILDING. THEREFORE, THIS STRUCTURE SHOULD BE FULLY BRACED IN ALL DIRECTIONS, UNTIL ALL WALL STUDS, HOLD DOWNS, AND SHEATHING ARE IN PLACE AND FULLY CONSTRUCTED.
2. SHEATH ALL LOAD BEARING STUD WALLS PRIOR TO LOADING OF ROOF TRUSSES AND ROOF DECK.
3. ALL EXTERIOR WALL STUDS SHALL BE 2x6 #2 GR SYP AT 16" OC, UNLESS NOTED OTHERWISE AT SHEARWALL TYPE B. SEE SHEARWALL SCHEDULE. ALL INTERIOR LOAD BEARING STUDS SHALL BE 2X4 #2 GR SYP AT 16" OC
4. ALL EXTERIOR WALL STUDS TO HAVE 1/2" STRUCT PLYWOOD SHEATHING ALL INTERIOR WALLS TO HAVE 5/8" GYP. BOARD. SEE TIMBER NOTE #8
5. ALL FASTENERS, HARDWARE, ANCHOR BOLTS, SILL BOLTS, NAILS AND SCREWS AND BOLTS SHALL BE HOT DIP GALVANIZED.
6. BOTTOM CHORD OF TRUSSES ARE NOT BRACED BY THE CEILING. DESIGN TRUSSES AND BRACING AS REQUIRED, SEE 5 AND 6/S402 FOR TRUSS PROFILES.
7. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE BETWEEN THE ROOF TRUSS SUPPLIER AND THE MECHANICAL CONTRACTOR FOR ADEQUATE MECHANICAL EQUIPMENT AND DUCT CLEARANCE. CLEARANCES AND PROVISIONS SHOWN ON THESE DRAWINGS CANNOT TAKE INTO ACCOUNT DIFFERENCES IN EQUIPMENT PURCHASED OR ALTERNATE DUCT LAYOUTS.

LEGEND

- ① INDICATES HEADER SCHEDULE - SEE THIS SHEET
- INDICATES LOAD BEARING WALL
- (A) INDICATES SHEAR WALL - SEE SCHEDULE
- INDICATES LOAD BEARING CMU
- SIMPSON HDU5 INDICATES HOLDOWN AT SHEARWALL END SEE 1-7/S303 FOR DETAILS

HEADER SCHEDULE

MARK	HEADER TYPE
①	(2) 2x8
②	(2) 2-2x10
③	(3) 2x6
④	(3) 2x8
⑤	(3) 2x10
⑥	(3) 2x12
⑦	3 1/2"x11 1/4" LSL BM
⑧	5-2x10

NOTE:
ALL INTERIOR HEADERS ARE TYPE ① UNLESS NOTED

ALL EXTERIOR HEADERS ARE TYPE ③ UNLESS NOTED
USE 1/2" PLYWOOD SPACERS AS REQ'D

NORTH

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

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BASTROP, TX 78602
Project Number : 8989

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ISSUED FOR BIDDING	
ISSUED FOR PERMIT	09/10/26
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE
A	ADDENDUM A	09/18/26

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STRUCTURAL ENGINNERS
TEXAS ENGINEERING FIRM
NO. F-170
6051 NORTH COURSE DRIVE
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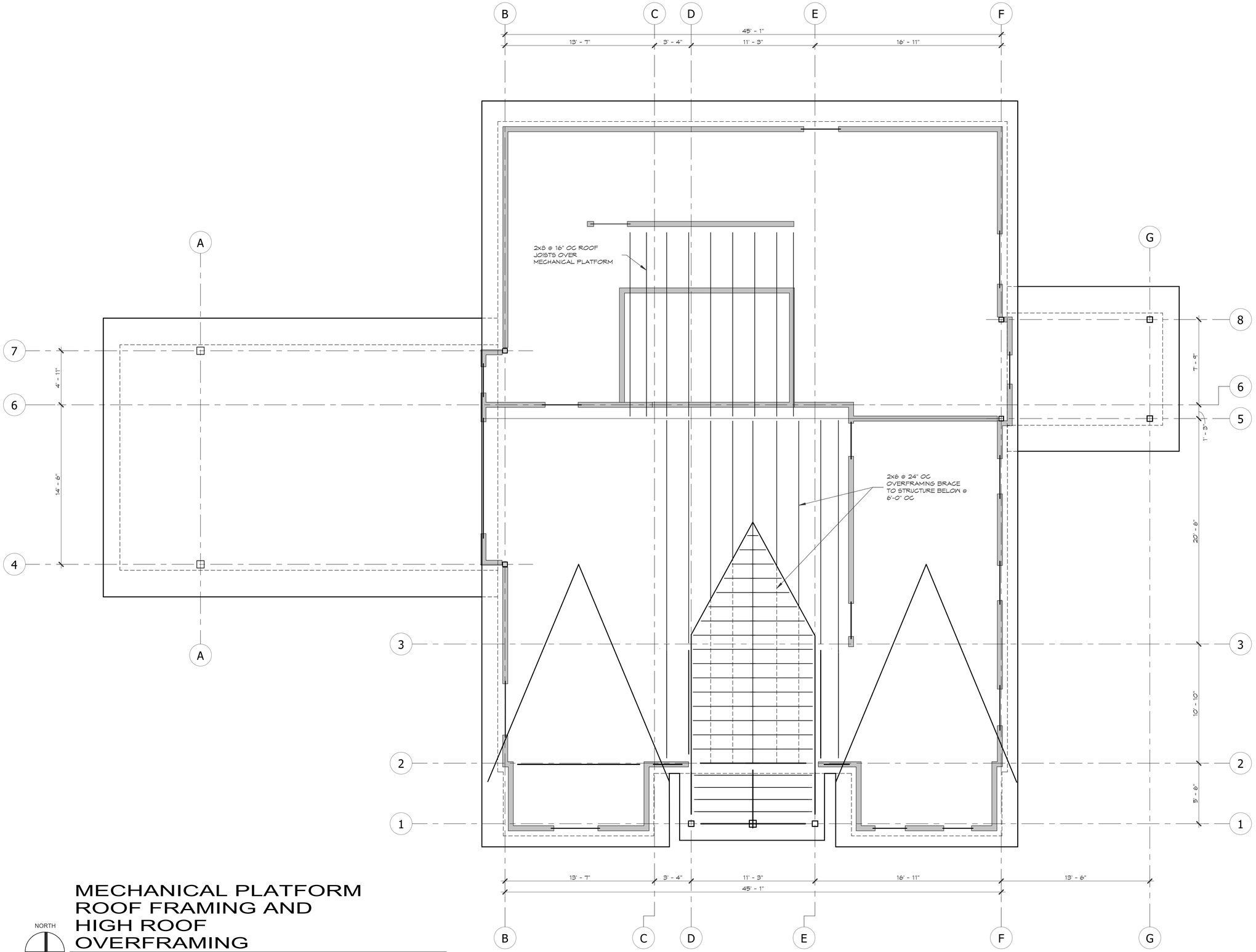
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18 September 2026

DRAWING TITLE
ROOF FLOOR FRAMING PLAN

DRAWN BY	JM
CHECKED BY	BG
APPROVED BY	
SHEET NO.	S201

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MECHANICAL PLATFORM ROOF FRAMING AND HIGH ROOF OVERFRAMING

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

NORTH

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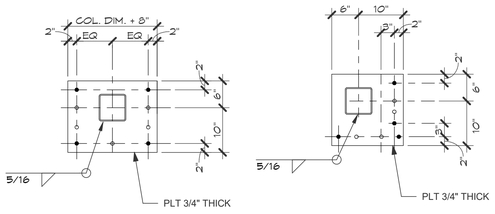
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90858
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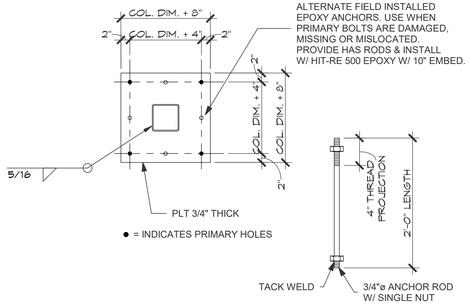
10 September 2026

DRAWING TITLE
HIGH ROOF FLOOR FRAMING PLAN

DRAWN BY	JM	SHEET NO.
CHECKED BY	BG	S202
APPROVED BY		

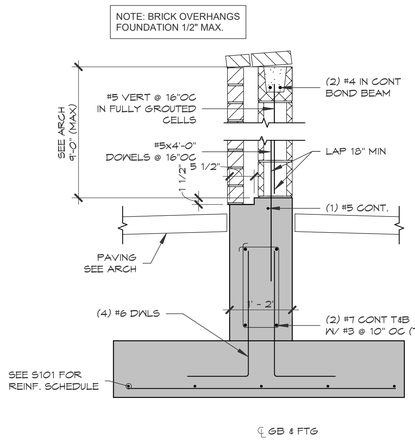
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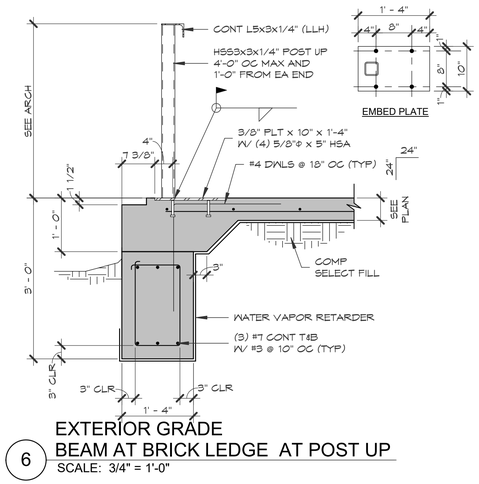
TYPICAL TUBE COLUMN BASE PLATE DETAIL

11 SCALE: 3/4" = 1'-0"



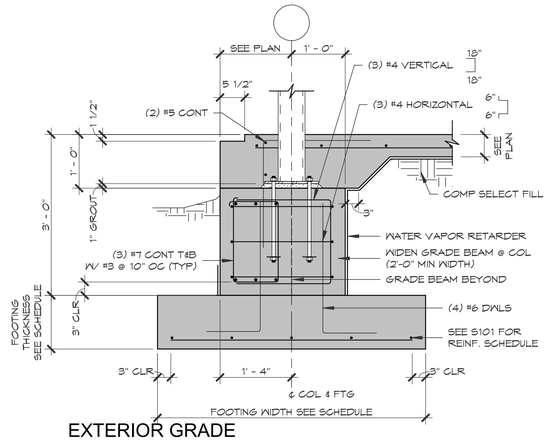
SCREEN WALL DETAIL

8 SCALE: 3/4" = 1'-0"



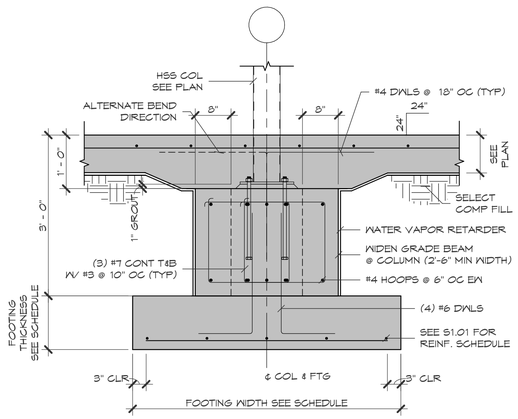
EXTERIOR GRADE BEAM AT BRICK LEDGE AT POST UP

6 SCALE: 3/4" = 1'-0"



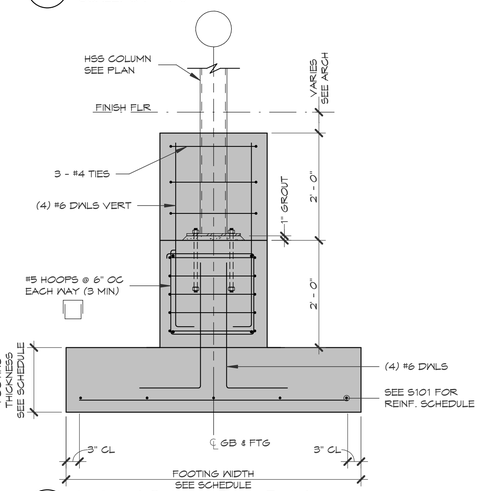
EXTERIOR GRADE BEAM AT COLUMN W/ BRICK LEDGE

5 SCALE: 3/4" = 1'-0"



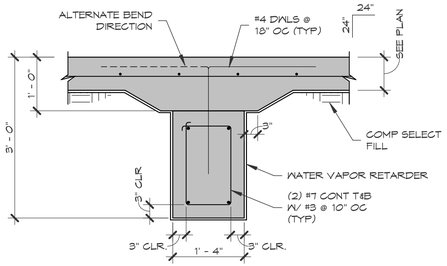
INTERIOR GRADE BEAM AT COLUMN

2 SCALE: 3/4" = 1'-0"



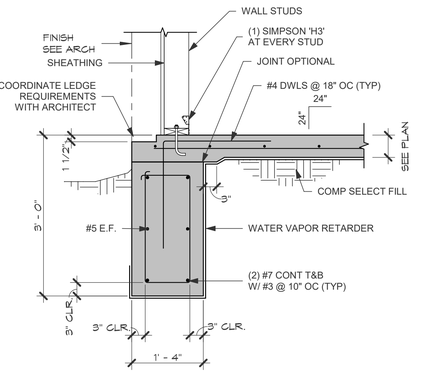
Isolated Column Base Detail

10 SCALE: 3/4" = 1'-0"



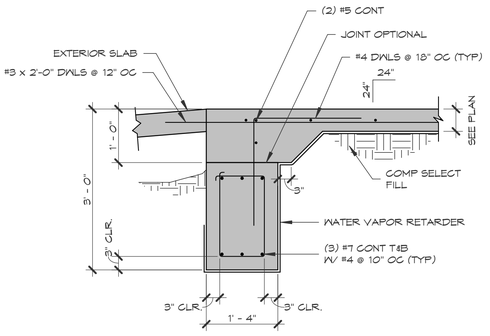
TYPICAL INTERIOR GRADE BEAM

7 SCALE: 3/4" = 1'-0"



TYPICAL EXTERIOR GRADE BEAM

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



TYPICAL EXTERIOR GRADE BEAM

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

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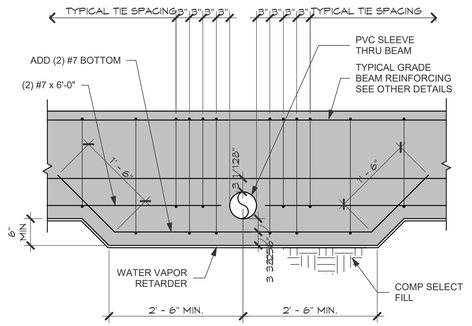
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10 September 2026

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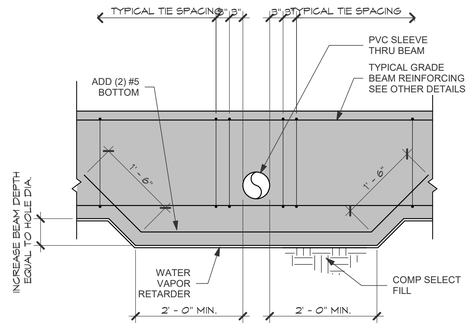
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CHECKED BY	BG	S301
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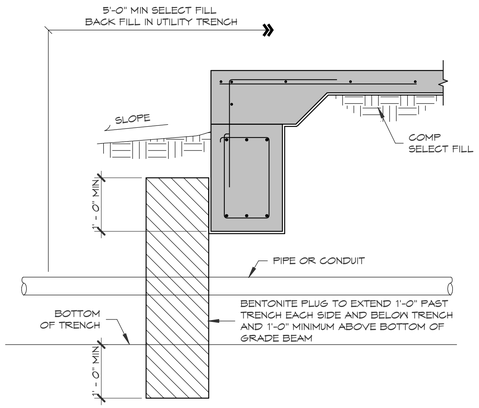
ELEVATION VIEW
TYPICAL HORIZONTAL HOLE THROUGH GRADE BEAM LARGER THAN 4" DIA.

6 GRADE BEAM PENETRATION (MAIN REINF INTERRUPTED)
SCALE: 3/4" = 1'-0"

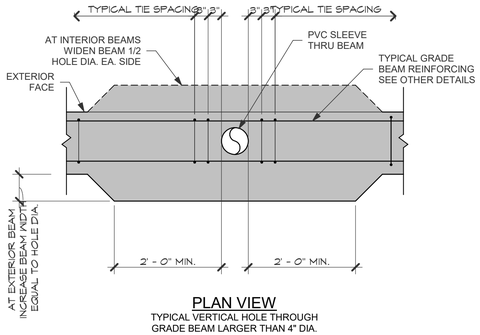


ELEVATION VIEW
TYPICAL HORIZONTAL HOLE THROUGH GRADE BEAM LARGER THAN 4" DIA.

3 GRADE BEAM PENETRATION DETAIL
SCALE: 3/4" = 1'-0"

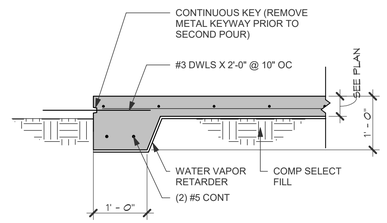


8 PIPE ENTRY DETAIL
SCALE: 3/4" = 1'-0"

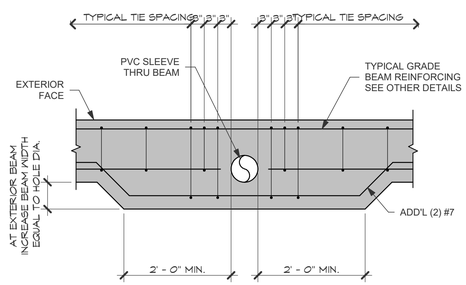


PLAN VIEW
TYPICAL VERTICAL HOLE THROUGH GRADE BEAM LARGER THAN 4" DIA.

5 GRADE BEAM PENETRATION DETAIL
SCALE: 3/4" = 1'-0"

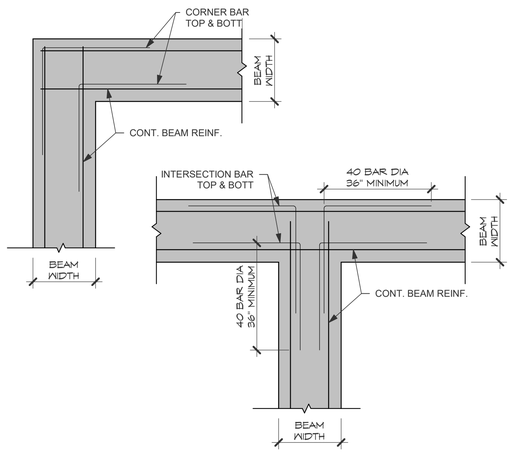


2 SLAB LEAVE OUT DETAIL
SCALE: 3/4" = 1'-0"

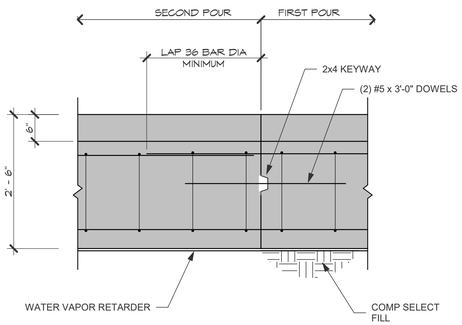


PLAN VIEW
TYPICAL VERTICAL HOLE THROUGH GRADE BEAM LARGER THAN 4" DIA.

10 GRADE BEAM PENETRATION DETAIL
SCALE: 3/4" = 1'-0"



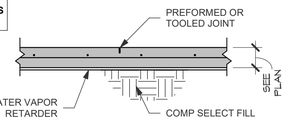
7 TYPICAL CORNER BAR DETAIL
SCALE: 3/4" = 1'-0"



ELEVATION VIEW
LOCATE JOINTS IN MIDDLE THIRD OF BEAM SPAN BETWEEN SUPPORTS

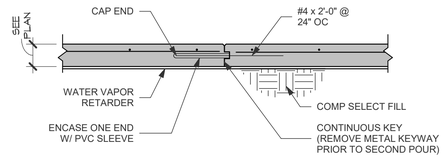
4 GRADE BEAM CONSTRUCTION JOINT
SCALE: 3/4" = 1'-0"

CONTRACTION JOINT MAY BE SAWCUT TO 1/4 OF THE SLAB DEPTH NO MORE THAN 6 HOURS AFTER SLAB PLACEMENT



SLAB CONTRACTION JOINT

SEE PLAN FOR LOCATION OR SPACE AT 15'x 15' MAXIMUM IN EACH DIRECTION



SLAB CONSTRUCTION JOINT

NOTE: AT CONTRACTOR'S OPTION, CONSTRUCTION JOINT MAY BE USED IN LIEU OF CONTRACTION JOINT.

1 SLAB JOINT DETAIL
SCALE: 3/4" = 1'-0"

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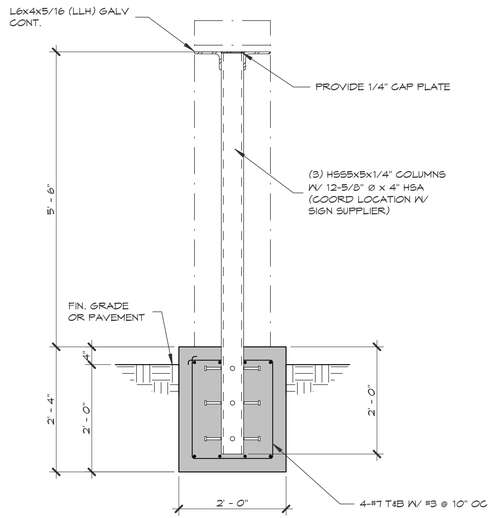
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BRITT GARDNER
90958
LICENSED PROFESSIONAL ENGINEER

10 September 2026

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TYPICAL FOUNDATION DETAILS

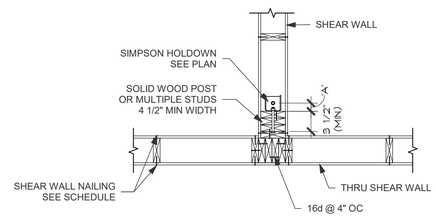
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SHEET NO.	S302

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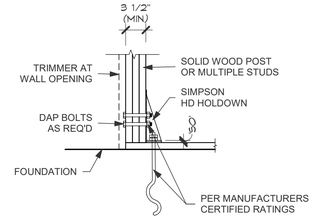


12 MONUMENT DETAIL
SCALE: 3/4" = 1'-0"

HOLDOWN	DISTANCE 'A'
HDUE3	1 3/8"
HDUE5	1 3/8"
HDUE7	1 3/8"
HDUE9	1 7/16"
HDUE13	1 7/16"
HDUE17	1 15/16"

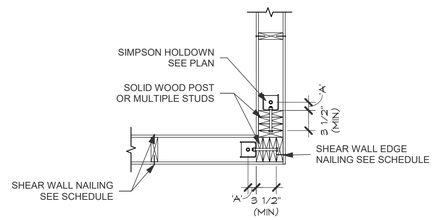


6 INTERSECTION HOLDOWN PLAN
SCALE: NTS

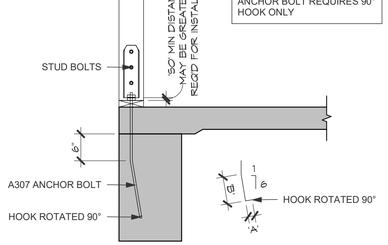


3 HOLDOWN DETAIL
SCALE: NTS

HOLDOWN	DISTANCE 'A'
HDUE3	1 3/8"
HDUE5	1 3/8"
HDUE7	1 3/8"
HDUE9	1 7/16"
HDUE13	1 7/16"
HDUE17	1 15/16"



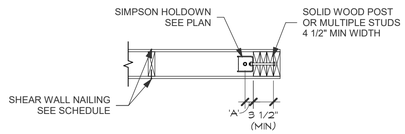
5 CORNER HOLDOWN PLAN
SCALE: NTS



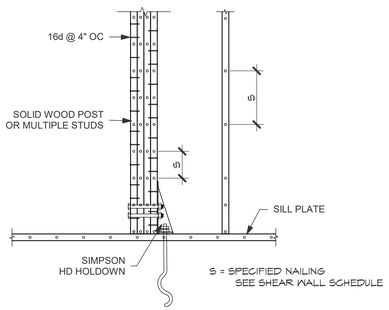
NOTE:
AT BRICK LEDGE LOCATIONS ANCHOR BOLT REQUIRES 90° HOOK ONLY

HOLDOWN	SDS SCREW	ANCHOR BOLT DIA	3000 PSI		'SO'	SIMPSON ANCHOR BOLT
			A	B		
HDUE3	(7) SDS 1/4" x 3"	5/8"			1 1/2"	SSTB16
HDUE5	(10) SDS 1/4" x 3"	5/8"	4 1/2"	12"	1 1/2"	SSTB24
HDUE7	(13) SDS 1/4" x 3"	5/8"	4 1/2"	12"	1 1/2"	SSTB28
HDUE9	(16) SDS 1/4" x 3 1/2"	7/8"	4 1/2"	15"	1 1/2"	SSTB28
HDUE13	(23) SDS 1/4" x 3 1/2"	1"	4 1/2"	15"	1 1/2"	
HDUE17	(28) SDS 1/4" x 4 1/2"	1"	4 1/2"	15"	1 1/2"	

HOLDOWN	DISTANCE 'A'
HDUE3	1 3/8"
HDUE5	1 3/8"
HDUE7	1 3/8"
HDUE9	1 7/16"
HDUE13	1 7/16"
HDUE17	1 15/16"



7 OPENING HOLDOWN PLAN
SCALE: NTS



4 HOLDOWN STUD NAILING
SCALE: NTS

HOLDOWN	ALTERNATE ANCHOR BOLT
HDUE3	5/8"ø x 5" EMBED HILTI HIT HY150 ADHESIVE ANCHOR W/ "HAS" ROD
HDUE5	5/8"ø x 6" EMBED HILTI HIT HY150 ADHESIVE ANCHOR W/ "HAS" ROD
HDUE7	5/8"ø x 7 1/2" EMBED HILTI HIT HY150 ADHESIVE ANCHOR W/ "HAS" ROD
HDUE9	7/8"ø x 7 1/2" EMBED HILTI HIT HY150 ADHESIVE ANCHOR W/ "HAS" ROD
HDUE13	1"ø x 11 1/4" EMBED HILTI HIT HY150 ADHESIVE ANCHOR W/ "HAS" ROD
HDUE17	1"ø x 12 3/8" EMBED HILTI HIT HY150 ADHESIVE ANCHOR W/ "HAS" ROD

1 HOLDOWN ANCHOR SCHEDULE
SCALE: NTS

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BASTROP, TX 78602

Project Number : 8989

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ISSUED FOR PERMIT	09/10/26
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE
A	ADDENDUM A	09/18/26

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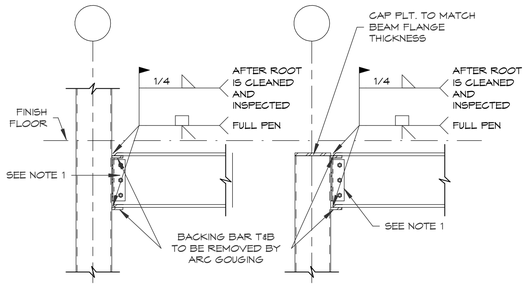
STATE OF TEXAS
BRITT GARDNER
90958
LICENSED
PROFESSIONAL ENGINEER

18 September 2026

DRAWING TITLE
TYPICAL FOUNDATION DETAILS

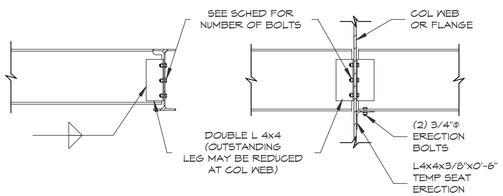
DRAWN BY	JM	SHEET NO. A
CHECKED BY	BG	S303
APPROVED BY		

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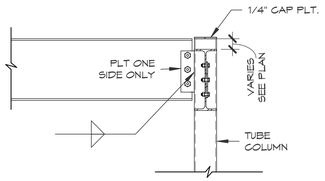
NOTES:
1.) SEE CONNECTION SCHEDULE
2.) SEE PLANS FOR LOCATIONS AND BEAM COLUMN SIZES.
3.) PROVIDE COMPLETE PENETRATION GROOVE WELDS UNLESS OTHERWISE SHOWN.
4.) AT TOP LEVELS PROVIDE COLUMN CAP PLATE.

12 MOMENT CONNECTION DETAIL AT TUBE COLUMN
SCALE: 3/4" = 1'-0"



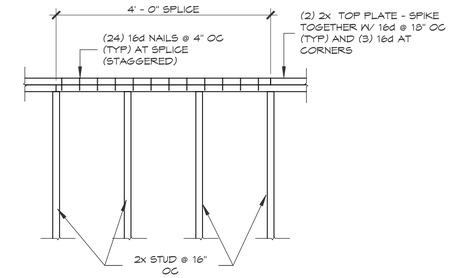
BEAM DEPTH	PLATE THICKNESS	NO. 3/4"ø A325 BOLTS
8"	1/4"	2
10"	5/16"	2
12"	5/16"	3
14"	5/16"	3
16"	5/16"	4
18"	5/16"	5
21"	5/16"	6
24"	3/8"	6
27"	3/8"	7
30"	3/8"	8

11 BEAM TO BEAM/ COLUMN CONNECTION TABLE
SCALE: 3/4" = 1'-0"



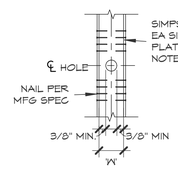
BEAM DEPTH	PLATE THICKNESS	NO. 3/4"ø A325 BOLTS
8"	1/4"	2
10"	5/16"	2
12"	5/16"	3
14"	5/16"	3
16"	5/16"	4
18"	5/16"	5
21"	5/16"	6
24"	3/8"	6
27"	3/8"	7
30"	3/8"	8

10 BEAM TO COLUMN SIMPLE SHEAR CONNECTION TABLE
SCALE: 3/4" = 1'-0"

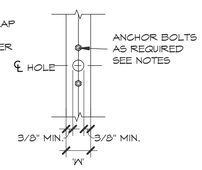


9 TOP PLATE SPLICE
SCALE: 3/4" = 1'-0"

NOTE
1. HOLES SHALL BE DRILLED SO AS NOT TO SPLINTER THE STUD.
2. 'd' = MEMBER DEPTH



PLAN - DBL TOP PLATE

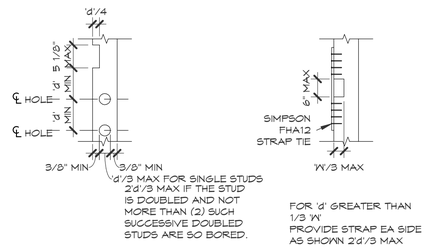


FOR 'd' GREATER THAN 1/3 'W' PROVIDE ANCHOR BOLTS AT 12" MAX FROM EA SIDE OF HOLE

PLAN - SILL PLATE

8 HOLES IN PLATE
SCALE: 3/4" = 1'-0"

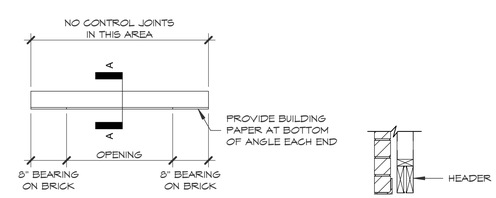
NOTE
1. HOLES SHALL BE DRILLED SO AS NOT TO SPLINTER THE STUD.
2. 'd' = MEMBER DEPTH



NOTCH OR HOLE IN STUD

PLAN - NOTCH IN PLATE

7 HOLE/NOTCH IN STUD/PLATE
SCALE: 3/4" = 1'-0"

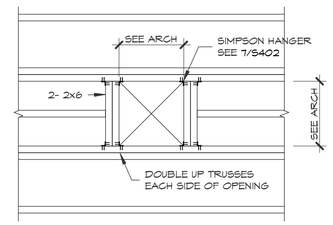


A - A @ WOOD STUD

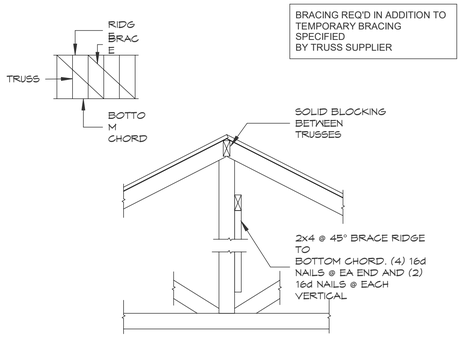
BRICK LOOSE LINTEL SCHEDULE	
OPENING	ANGLE SIZE
3'-0" TO 10'-0"	L 5 X 5 X 5/16 (ALL OPENINGS)

LLV = LONG LEG VERTICAL
GALVANIZE ALL LINTEL ANGLES.
ANGLE SIZES ARE MIN. - SEE ARCHITECTURAL DRAWINGS.

6 BRICK LOOSE LINTEL SCHEDULE
SCALE: 3/4" = 1'-0"

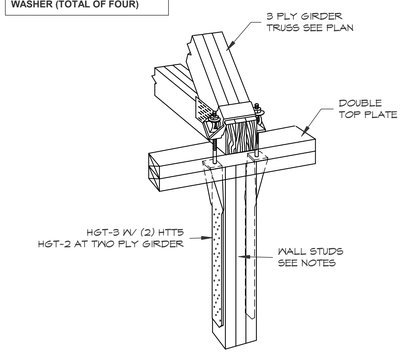


5 OPENING DETAIL AT ROOF / CEILING
SCALE: 3/4" = 1'-0"

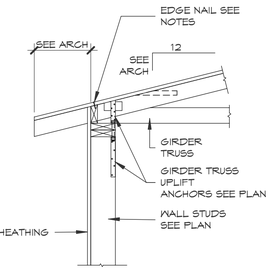


4 RIDGE BRACE DETAIL
SCALE: 3/4" = 1'-0"

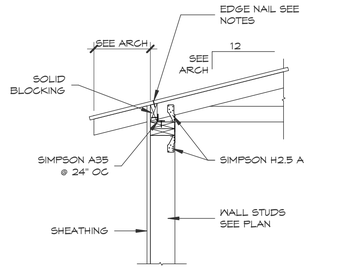
INSTALL TWO LBP 5/8" WASHERS ON TOP OF EACH CRESCENT WASHER (TOTAL OF FOUR)



3 GIRDER TRUSS HOLDOWN DETAIL
SCALE: 3/4" = 1'-0"



2 GIRDER TRUSS HOLDOWN DETAIL
SCALE: 3/4" = 1'-0"



1 TYPICAL EDGE DETAIL
SCALE: 3/4" = 1'-0"

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Project Number : 8989

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MARK	DESCRIPTION	DATE

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BRITT GARDNER
90868
LICENSED PROFESSIONAL ENGINEER
10 September 2026

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APPROVED BY		

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ROOF TRUSS UPLIFT ANCHOR SCHEDULE		
SIMPSON ANCHORS	ROOF TRUSS UPLIFT LOAD	REMARKS
H2.5A	LOADS LESS THAN 455#	
H7 OR H10	LOADS LESS THAN 905#	WHERE STUD ALIGNS WITH TRUSS
MTS12 *	LOADS LESS THAN 1000#	OR GREATER SIZE AS REQ'D FOR INSTALLATION
H15	LOADS LESS THAN 1300#	(12) 10d TO STUD
MTT28B	LOADS LESS THAN 4455# (2 PLY) LOADS LESS THAN 3465# (1 PLY)	(24) 16d NAILS (24) 10d NAILS (TWO REQ'D)
THA218-2 **	LOADS LESS THAN 1550#	TWO PLY TRUSS
LTT20B	LOADS LESS THAN 1750#	TWO PLY TRUSS (10) 16d NAILS (TWO REQ'D)
(2) HD8A OR (4) HD5A	6465#	TWO PLY TRUSS
(2) HD5A	3705#	ONE PLY TRUSS

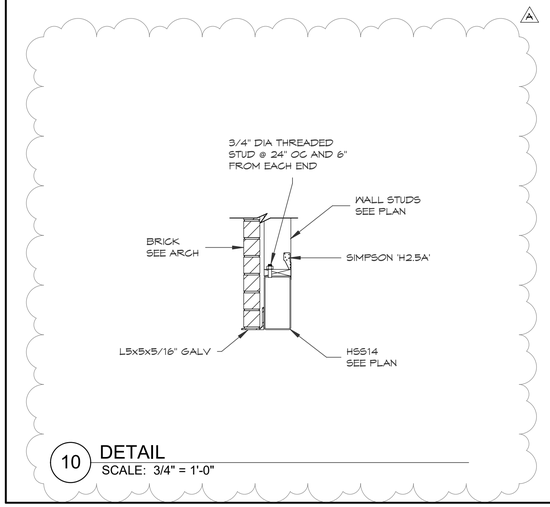
NOTES:

*** INSTALL SIMPSON MTS12 NEAREST ADJACENT STUD TO TOP PLATE.**
**** INSTALL SIMPSON MTS12 AT TWO NEAREST ADJACENT STUDS TO TOP PLATE. INSTALL ALL ANCHORS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.**

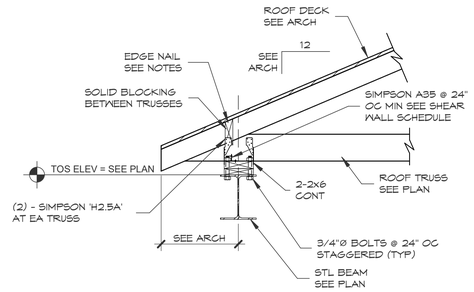
12 ROOF TRUSS UPLIFT ANCHOR SCHEDULE
SCALE: 3/4" = 1'-0"

NAILING SCHEDULE	
CONNECTIONS	NAILING
1. JOIST TO SILL OR GIRDER, TOENAIL	(3) 8d
2. BRIDGING TO JOIST, TOENAIL EA. END	(2) 8d
3. 1"x6" SUBFLOOR OR LESS TO EA. JOIST, FACE NAIL	(2) 8d
4. WIDER THAN 1"x6" SUBFLOOR TO EA. JOIST FACE NAIL	(3) 8d
5. 2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	(2) 16d
6. SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL SOLE PLATE TO JOIST OR BLOCKING, AT BRACED WALL PANELS	16d @ 16"OC (3) 16d PER 16'
7. TOP PLATE TO STUD, END NAIL	(2) 16d
8. STUD TO SOLE PLATE	(4) 8d, TOENAIL OR (2)16d, END NAIL
9. DOUBLE STUDS, FACE NAIL	16d @ 24" OC
10. DOUBLE TOP PLATES, FACE NAIL DOUBLE TOP PLATES, LAP SPLICE	16d @ 16" OC (8) 16d
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL	(3) 8d
12. RIM JOIST TO TOP PLATE, TOENAIL	8d @ 6" OC
13. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	(2) 16d
14. CONTINUOUS HEADER, TWO PIECES	16d @ 16" OC ALONG EA. EDGE
15. CEILING JOIST TO PLATE, TOENAIL	(3) 8d
16. CONTINUOUS HEADER TO STUD, TOENAIL	(4) 8d
17. CEILING JOIST, LAPS OVER PARTITIONS, FACE NAIL	(3) 16d
18. CEILING JOIST TO PARALLEL RAFTERS, FACE NAIL	(3) 16d
19. RAFTER TO PLATE, TOENAIL	(3) 8d
20. 1" BRACE TO EA. STUD AND PLATE, FACE NAIL	(2) 8d
21. 1"x8" SHEATHING OR LESS TO EA. BEARING, FACE NAIL	(2) 8d
22. WIDER THAN 1"x8" SHEATHING TO EA. BEARING, FACE NAIL	(2) 8d
23. BUILT-UP CORNER STUDS	16d @ 24" OC
24. BUILT-UP GIRDER AND BEAMS	20d @ 32"OC AT TOP AND BOTTOM AND STAGGERED (2) 20d @ EA. ENDS AND AT EA SPLICE
25. TRUSS TO PLATE, TOENAIL	(3) 16d

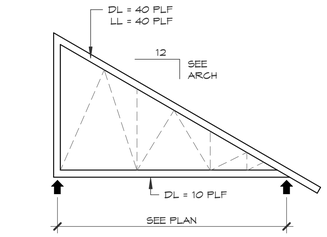
11 NAILING SCHEDULE
SCALE: 3/4" = 1'-0"



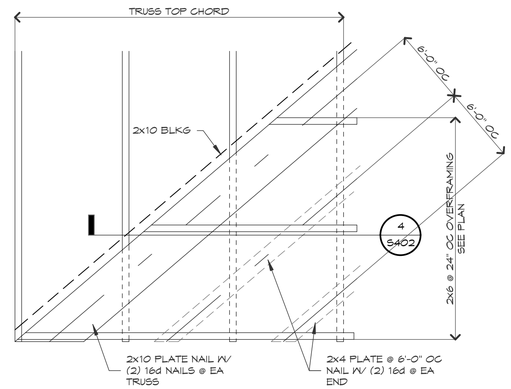
10 DETAIL
SCALE: 3/4" = 1'-0"



9 DETAIL AT DRIVE THRU
SCALE: 3/4" = 1'-0"

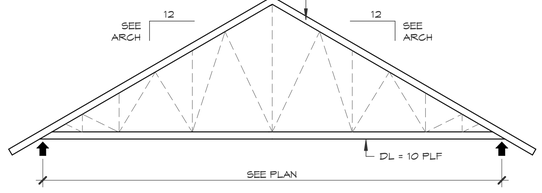


6 ROOF TRUSS PROFILE RT-2
SCALE: 3/16" = 1'-0"



3 PLAN AT OVERFRAMING
SCALE: 3/4" = 1'-0"

8 DETAIL AT BEAM
SCALE: 3/4" = 1'-0"



5 ROOF TRUSS PROFILE RT-1
SCALE: 3/16" = 1'-0"

2 HEADER DETAIL
SCALE: 3/4" = 1'-0"

JOIST(BEAM OR TRUSS) HANGER SCHEDULE	
2x6	LUS26
2x8	LUS26
2x10	LUS28
2x12	LUS210
(2) 2x6	HUS26-2TF
(2) 2x8	HUS28-2TF
(2) 2x10	HUS210-2TF
(2) 2x12	HUS210-2TF
(3) 2x10	HUS210-2TF
(3) 2x12	HU212-3TF
3 1/2 x 9 1/4 PARALLAM	HW 149.25
5 1/4 x 9 1/4 PARALLAM	WP 5.31/9.25
5 1/4 x 12 PARALLAM	HWU 5.50/12
TRUSS TO TRUSS	AS SPECIFIED BY TRUSS ENGINEER

NOTES:

1. **SEE TIMBER GENERAL NOTES NO. XX**
2. **PROVIDE HANGERS AT ALL LOCATIONS WHERE MEMBERS FRAME TOGETHER AT THE SAME ELEVATION (U.N.O.).**
3. **WHERE WOOD BEAMS FRAME INTO STEEL COLUMNS, PROVIDE 1/4" PLATE SADDLE WITH BEARING PLATE WELDED TO COLUMN.**
4. **PROVIDE SLOPED HANGERS WHERE REQUIRED.**

7 HANGER SCHEDULE
SCALE: 3/4" = 1'-0"

4 SECTION AT OVERFRAMING
SCALE: 3/4" = 1'-0"

1 SHEAR WALL SECTION
SCALE: NTS

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BASTROP, TX 78602

Project Number : 8989

ISSUED	DATE
ISSUED FOR CLIENT APPROVAL	
ISSUED FOR BIDDING	
ISSUED FOR PERMIT	09/10/26
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE
A	ADDENDUM A	09/18/26

CJG ENGINEERS
STRUCTURAL ENGINNERS
TEXAS ENGINEERING FIRM NO. F-170
6051 NORTH COURSE DRIVE
SUITE 375
HOUSTON, TEXAS 77072
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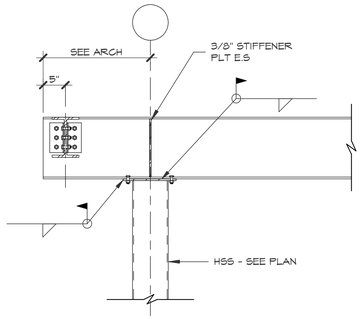
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STATE OF TEXAS
BRITT GARDNER
90958
LICENSED PROFESSIONAL ENGINEER
18 September 2026

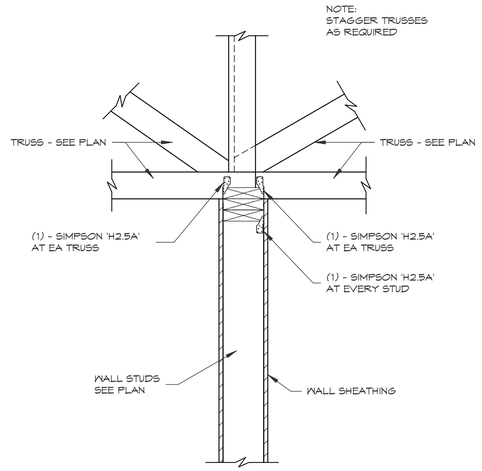
DRAWING TITLE
FRAMING DETAILS

DRAWN BY	JM	SHEET NO.
CHECKED BY	BG	S402
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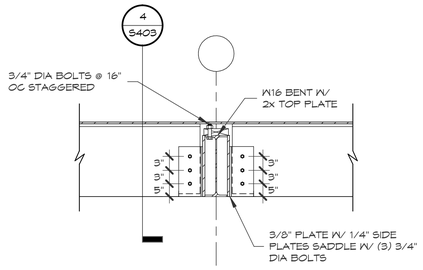
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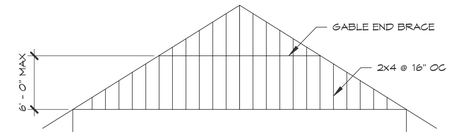
6 CANTILEVER DETAIL
SCALE: 3/4" = 1'-0"



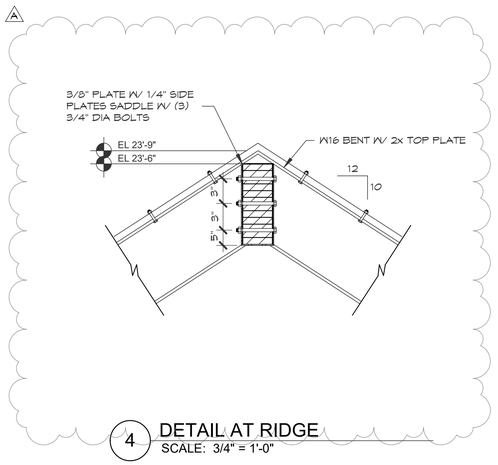
3 TYPICAL INTERIOR LOAD-BEARING WALL SUPPORTING TRUSSES
SCALE: 3/4" = 1'-0"



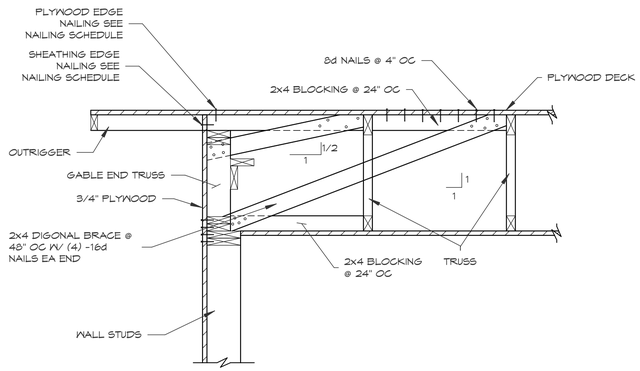
5 DETAIL AT RIDGE TO WX BENT
SCALE: 3/4" = 1'-0"



GABLE END TRUSS



4 DETAIL AT RIDGE
SCALE: 3/4" = 1'-0"



1 GABLE END DETAIL
SCALE: 3/4" = 1'-0"

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ISSUED FOR PERMIT	09/10/26
ISSUED FOR CONSTRUCTION	

REVISIONS

MARK	DESCRIPTION	DATE
A	ADDENDUM A	09/18/26

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STATE OF TEXAS
BRITT GARDNER
90958
LICENSED
PROFESSIONAL ENGINEER

18 September 2026

DRAWING TITLE
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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 ASTM, 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. TEST AND BALANCE ACTIVITIES SHALL INCLUDE AIR SYSTEM AND HYDRONIC SYSTEM BALANCING. THE FOLLOWING SYSTEMS ARE EXEMPT:
1. MECHANICAL SYSTEMS AND SERVICE WATER HEATER SYSTEMS IN BUILDINGS WHERE THE TOTAL MECHANICAL EQUIPMENT CAPACITY IS LESS THAN 480,000 BTUH COOLING CAPACITY AND 600,000 BTUH COMBINED SERVICE WATER HEATING AND SPACE HEATING CAPACITY.
2. SYSTEMS THAT SERVE INDIVIDUAL DWELLING UNITS AND SLEEPING UNITS.

C. AIR SYSTEMS BALANCING: EACH SUPPLY AIR OUTLET AND ZONE TERMINAL DEVICE SHALL BE EQUIPPED WITH MEANS FOR AIR BALANCING. DISCHARGE DAMPERS USED FOR AIR SYSTEM BALANCING ARE PROHIBITED ON CONSTANT VOLUME FANS AND VARIABLE VOLUME FANS WITH MOTORS 10HP AND LARGER. AIR SYSTEMS SHALL BE BALANCED IN A MANNER TO FIRST MINIMIZE THROTTLING LOSSES THEN, FOR FANS WITH SYSTEM POWER OF GREATER THAT 1 HP, FAN SPEED SHALL BE ADJUSTED TO MEET DESIGN FLOW CONDITIONS. EXCEPTIONS: FANS WITH MOTORS OF 1 HP OR LESS ARE NOTE REQUIRED TO BE PROVIDED WITH A MEANS FOR AIR BALANCING.

D. HYDRONIC SYSTEM BALANCING: INDIVIDUAL HYDRONIC HEATING AND COOLING COILS SHALL BE EQUIPPED WITH A MEANS FOR BALANCING AND MEASURING FLOW. HYDRONIC SYSTEMS SHALL BE PROPORTIONATELY BALANCED IN A MANNER TO FIRST MINIMIZE THROTTLING LOSSES, THEN THE PUMP IMPELLER SHALL BE TRIMMED OR PUMP SPEED SHALL BE ADJUSTED TO MEET DESIGN FLOW CONDITIONS. EACH HYDRONIC SYSTEM SHALL HAVE EITHER THE CAPABILITY TO MEASURE PRESSURE ACROSS THE PUMP, OR TEST PORTS AT EACH SIDE OF EACH PUMP. THE FOLLOWING EQUIPMENT IS NOT REQUIRED TO BE EQUIPPED WITH A MEANS FOR BALANCING OR MEASURING FLOW:
1. PUMPS WITH PUMP MOTORS OF 5 HP (3.7 KW) OR LESS,
2. WHERE THROTTLING RESULTS IN NO GREATER THAN 5 PERCENT OF THE NAMEPLATE HORSEPOWER DRAW ABOVE THAT REQUIRED IF THE IMPELLER WERE TRIMMED.

E. FUNCTIONAL PERFORMANCE TESTING. FUNCTIONAL PERFORMANCE TESTING SHALL BE CONDUCTED.
1. EQUIPMENT. EQUIPMENT FUNCTIONAL PERFORMANCE TESTING SHALL DEMONSTRATE THE INSTALLATION AND OPERATION OF COMPONENTS, SYSTEMS, AND SYSTEM-TO-SYSTEM INTERFACING RELATIONSHIPS IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS SUCH THAT OPERATION, FUNCTION, AND MAINTENANCE SERVICEABILITY FOR EACH OF THE COMMISSIONED SYSTEMS IS CONFIRMED. TESTING SHALL INCLUDE ALL MODES AND 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 CONTROLLED LIGHTS 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 DEBRIS PRIOR TO 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 "IRON GRIP WATER BASE 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 "GRIP-LOC" SEAM TO 24 GAUGE GALVANIZED METAL SIDE CONNECTORS A MINIMUM OF 3 INCHES WIDE EACH. FLEXIBLE CONNECTION ARE TO FABRICATED WITH ELGEN "ZIPPERLOCK" #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 MANUAL 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 I 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 APPROVED EQUAL (EQUIVALENT TO R6).

CONTROLS

PROVIDE ALL TEMPERATURE CONTROLS MODIFICATIONS REQUIRED FOR A COMPLETE AND FUNCTIONING CONTROLS SYSTEM. ALL CONTROLS SHALL MATCH BUILDING STANDARD.

CHILLED WATER / CONDENSATE PIPING

A. STEEL PIPE: ASTM A 53/A 53M, BLACK STEEL WITH PLAIN ENDS.

B. CAST-IRON THREADED FITTINGS: ASME B16.4; CLASSES 125 AND 250.

C. MALLEABLE-IRON THREADED FITTINGS: ASME B16.3, CLASSES 150 AND 300.

D. MALLEABLE-IRON UNIONS: ASME B16.39; CLASSES 150, 250, AND 300.

E. CAST-IRON PIPE FLANGES AND FLANGED FITTINGS: ASME B16.1, CLASSES 25, 125, AND 250; RAISED GROUND FACE, AND BOLT HOLES SPOT FACED.

F. WROUGHT-STEEL FITTINGS: ASTM A 234/A 234M, WALL THICKNESS TO MATCH ADJOINING PIPE.

G. WROUGHT CAST- AND FORGED-STEEL FLANGES AND FLANGED FITTINGS: ASME B16.5, INCLUDING BOLTS, NUTS, AND GASKETS OF THE FOLLOWING MATERIAL GROUP, END CONNECTIONS, AND FACINGS:
1. MATERIAL GROUP: 1.1.
2. END CONNECTIONS: BUTT WELDING.
3. FACINGS: RAISED FACE.

H. GROOVED MECHANICAL-JOINT FITTINGS AND COUPLINGS:
MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
1. ANVIL INTERNATIONAL, INC.
2. CENTRAL SPRINKLER COMPANY; A DIVISION OF TYCO FIRE & BUILDING PRODUCTS.
3. NATIONAL FITTINGS, INC.
4. S.P. FITTINGS; A DIVISION OF STAR PIPE PRODUCTS.
5. VICTAULIC COMPANY.

JOINT FITTINGS: ASTM A 536, GRADE 65-45-12 DUCTILE IRON; ASTM A 47/A 47M, GRADE 32510 MALLEABLE IRON; ASTM A 53/A 53M, TYPE F, E, OR S, GRADE B FABRICATED STEEL; OR ASTM A 106, GRADE B STEEL FITTINGS WITH GROOVES OR SHOULDERS CONSTRUCTED TO ACCEPT GROOVED-END COUPLINGS; WITH NUTS, BOLTS, LOCKING PIN, LOCKING TOGGLE, OR LUGS TO SECURE GROOVED PIPE AND FITTINGS.
COUPLINGS: DUCTILE- OR MALLEABLE-IRON HOUSING AND SYNTHETIC RUBBER GASKET OF CENTRAL CAVITY PRESSURE-RESPONSIVE DESIGN; WITH NUTS, BOLTS, LOCKING PIN, LOCKING TOGGLE, OR LUGS TO SECURE GROOVED PIPE AND FITTINGS.

I. CHILLED-WATER PIPING, ABOVEGROUND, NPS 2 (DN 50) AND SMALLER, SHALL BE THE FOLLOWING:
1. SCHEDULE 40 STEEL PIPE; CLASS 150, MALLEABLE-IRON, 250, CAST-IRON AND 300, MALLEABLE-IRON FITTINGS; CAST-IRON FLANGES AND FLANGE FITTINGS; AND THREADED JOINTS.

J. CHILLED-WATER PIPING, ABOVEGROUND, NPS 2-1/2 (DN 65) AND LARGER, SHALL BE ANY OF THE FOLLOWING:
1. SCHEDULE 40 STEEL PIPE, WROUGHT-STEEL FITTINGS AND WROUGHT-CAST OR FORGED-STEEL FLANGES AND FLANGE FITTINGS, AND WELDED AND FLANGED JOINTS.
2. SCHEDULE 40 STEEL PIPE; GROOVED, MECHANICAL JOINT COUPLING AND FITTINGS; AND GROOVED, MECHANICAL JOINTS.

K. CONDENSATE-DRAIN PIPING: TYPE M (C) DRAWN-TEMPER COPPER TUBING, WROUGHT-COPPER FITTINGS, AND SOLDERED JOINTS.

L. HANGERS AND SUPPORTS: INSTALL THE FOLLOWING PIPE ATTACHMENTS:
1. ADJUSTABLE STEEL CLEVIS HANGERS FOR INDIVIDUAL HORIZONTAL PIPING LESS THAN 20 FEET (6 M) LONG.
2. ADJUSTABLE ROLLER HANGERS AND SPRING HANGERS FOR INDIVIDUAL HORIZONTAL PIPING 20 FEET (6 M) OR LONGER.
3. PIPE ROLLER: MSS SP-58, TYPE 44 FOR MULTIPLE HORIZONTAL PIPING 20 FEET (6 M) OR LONGER, SUPPORTED ON A TRAPEZE.
4. SPRING HANGERS TO SUPPORT VERTICAL RUNS.
5. PROVIDE COPPER-CLAD HANGERS AND SUPPORTS FOR HANGERS AND SUPPORTS IN DIRECT CONTACT WITH COPPER PIPE.

M. INSTALL HANGERS FOR STEEL PIPING WITH THE FOLLOWING MAXIMUM SPACING AND MINIMUM ROD SIZES:
1. NPS 3/4 (DN 20): MAXIMUM SPAN, 7 FEET (2.1 M); MINIMUM ROD SIZE, 1/4 INCH (6.4 MM).
2. NPS 1 (DN 25): MAXIMUM SPAN, 7 FEET (2.1 M); MINIMUM ROD SIZE, 1/4 INCH (6.4 MM).
3. NPS 1-1/2 (DN 40): MAXIMUM SPAN, 9 FEET (2.7 M); MINIMUM ROD SIZE, 3/8 INCH (10 MM).
4. NPS 2 (DN 50): MAXIMUM SPAN, 10 FEET (3 M); MINIMUM ROD SIZE, 3/8 INCH (10 MM).
5. NPS 2-1/2 (DN 65): MAXIMUM SPAN, 11 FEET (3.4 M); MINIMUM ROD SIZE, 3/8 INCH (10 MM).
6. NPS 3 (DN 80): MAXIMUM SPAN, 12 FEET (3.7 M); MINIMUM ROD SIZE, 3/8 INCH (10 MM).
7. NPS 4 (DN 100): MAXIMUM SPAN, 14 FEET (4.3 M); MINIMUM ROD SIZE, 1/2 INCH (13 MM).
8. NPS 6 (DN 150): MAXIMUM SPAN, 17 FEET (5.2 M); MINIMUM ROD SIZE, 1/2 INCH (13 MM).
9. NPS 8 (DN 200): MAXIMUM SPAN, 19 FEET (5.8 M); MINIMUM ROD SIZE, 5/8 INCH (16 MM).
10. NPS 10 (DN 250): MAXIMUM SPAN, 20 FEET (6.1 M); MINIMUM ROD SIZE, 3/4 INCH (19 MM).
11. NPS 12 (DN 300): MAXIMUM SPAN, 23 FEET (7 M); MINIMUM ROD SIZE, 7/8 INCH (22 MM).
12. NPS 14 (DN 350): MAXIMUM SPAN, 25 FEET (7.6 M); MINIMUM ROD SIZE, 1 INCH (25 MM).

N. INSTALL HANGERS FOR DRAWN-TEMPER COPPER PIPING WITH THE FOLLOWING MAXIMUM SPACING AND MINIMUM ROD SIZES:
1. NPS 3/4 (DN 20): MAXIMUM SPAN, 5 FEET (1.5 M); MINIMUM ROD SIZE, 1/4 INCH (6.4 MM).
2. NPS 1 (DN 25): MAXIMUM SPAN, 6 FEET (1.8 M); MINIMUM ROD SIZE, 1/4 INCH (6.4 MM).
3. NPS 1-1/2 (DN 40): MAXIMUM SPAN, 8 FEET (2.4 M); MINIMUM ROD SIZE, 3/8 INCH (10 MM).
4. NPS 2 (DN 50): MAXIMUM SPAN, 8 FEET (2.4 M); MINIMUM ROD SIZE, 3/8 INCH (10 MM).
5. NPS 2-1/2 (DN 65): MAXIMUM SPAN, 9 FEET (2.7 M); MINIMUM ROD SIZE, 3/8 INCH (10 MM).
6. NPS 3 (DN 80): MAXIMUM SPAN, 10 FEET (3 M); MINIMUM ROD SIZE, 3/8 INCH (10 MM).

O. CHILLED WATER AND BRINE, ABOVE 40 DEG F (5 DEG C):
1. NPS 12 (DN 300) AND SMALLER: INSULATION SHALL BE THE FOLLOWING: MINERAL-FIBER, PREFORMED PIPE, TYPE I, 1-1/2 INCHES (38 MM) THICK.
2. NPS 14 (DN 350) AND LARGER: INSULATION SHALL BE ONE OF THE FOLLOWING: MINERAL-FIBER PREFORMED PIPE, TYPE I, 1-1/2 INCHES (38 MM) THICK.

P. CONDENSATE AND EQUIPMENT DRAIN WATER BELOW 60 DEG F (16 DEG C):
1. ALL PIPE SIZES: INSULATION SHALL BE ONE OF THE FOLLOWING: MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I: 1 INCH (25 MM) THICK.

DUCT INSULATION

A. MINERAL-FIBER BLANKET INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 553, TYPE II AND ASTM C 1290, TYPE III WITH FACTORY-APPLIED FSK JACKET. EQUIVALENT TO R-6. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
1. CERTAINTEED CORP.; SOFTTOUCH DUCT WRAP.
2. JOHNS MANVILLE; MICROLITE.
3. KNAUF INSULATION; FRIENDLY FEEL DUCT WRAP.
4. MANSON INSULATION INC.; ALLEY WRAP.
5. OWENS CORNING; SOFTR ALL-SERVICE DUCT WRAP.

B. MINERAL-FIBER ADHESIVE: COMPLY WITH MIL-A-3316C, CLASS 2, GRADE A.
PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
1. CHILDERS BRAND, SPECIALTY CONSTRUCTION BRANDS, INC., A BUSINESS OF H. B. FULLER COMPANY; CP-127.
2. EAGLE BRIDGES – MARATHON INDUSTRIES; 225.
3. FOSTER BRAND, SPECIALTY CONSTRUCTION BRANDS, INC., A BUSINESS OF H. B. FULLER COMPANY; 85-60/85-70.
4. MON-ECO INDUSTRIES, INC.; 22-25.

FOR INDOOR APPLICATIONS, USE ADHESIVE THAT HAS A VOC CONTENT OF 80 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).

C. ASJ ADHESIVE, AND FSK JACKET ADHESIVE: COMPLY WITH MIL-A-3316C, CLASS 2, GRADE A FOR BONDING INSULATION JACKET LAP SEAMS AND JOINTS.
PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
1. CHILDERS BRAND, SPECIALTY CONSTRUCTION BRANDS, INC., A BUSINESS OF H. B. FULLER COMPANY; CP-82.
2. EAGLE BRIDGES – MARATHON INDUSTRIES; 225.
3. FOSTER BRAND, SPECIALTY CONSTRUCTION BRANDS, INC., A BUSINESS OF H. B. FULLER COMPANY; 85-50.
4. MON-ECO INDUSTRIES, INC.; 22-25.

FOR INDOOR APPLICATIONS, USE ADHESIVE THAT HAS A VOC CONTENT OF 50 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).

D. MASTICS
MATERIALS SHALL BE COMPATIBLE WITH INSULATION MATERIALS, JACKETS, AND SUBSTRATES; COMPLY WITH MIL-PRF-19565C, TYPE II.
1. FOR INDOOR APPLICATIONS, USE MASTICS THAT HAVE A VOC CONTENT OF 50 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).

E. VAPOR-BARRIER MASTIC: WATER BASED; SUITABLE FOR INDOOR USE ON BELOW AMBIENT SERVICES. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
1. FOSTER BRAND, SPECIALTY CONSTRUCTION BRANDS, INC., A BUSINESS OF H. B. FULLER COMPANY; 30-80/30-90.
2. VIMASCO CORPORATION; 749.

WATER-VAPOR PERMEANCE: ASTM E 96/E 96M, PROCEDURE B, 0.013 PERM (0.009 METRIC PERM) AT 43-MIL (1.09-MM) DRY FILM THICKNESS.
SERVICE TEMPERATURE RANGE: MINUS 20 TO PLUS 180 DEG F (MINUS 29 TO PLUS 82 DEG C).
SOLIDS CONTENT: ASTM D 1644, 58 PERCENT BY VOLUME AND 70 PERCENT BY WEIGHT.
COLOR: WHITE.

F. SEALANTS
FSK AND METAL JACKET FLASHING SEALANTS: PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
1. CHILDERS BRAND, SPECIALTY CONSTRUCTION BRANDS, INC., A BUSINESS OF H. B. FULLER COMPANY; CP-76.
2. EAGLE BRIDGES – MARATHON INDUSTRIES; 405.
3. FOSTER BRAND, SPECIALTY CONSTRUCTION BRANDS, INC., A BUSINESS OF H. B. FULLER COMPANY; 95-44.
4. MON-ECO INDUSTRIES, INC.; 44-05.

MATERIALS SHALL BE COMPATIBLE WITH INSULATION MATERIALS, JACKETS, AND SUBSTRATES.
FIRE- AND WATER-RESISTANT, FLEXIBLE, ELASTOMERIC SEALANT.
SERVICE TEMPERATURE RANGE: MINUS 40 TO PLUS 250 DEG F (MINUS 40 TO PLUS 121 DEG C).
COLOR: ALUMINUM.
FOR INDOOR APPLICATIONS, USE SEALANTS THAT HAVE A VOC CONTENT OF 420 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).

G. FSK TAPE: FOIL-FACE, VAPOR-RETARDER TAPE MATCHING FACTORY-APPLIED JACKET WITH ACRYLIC ADHESIVE; COMPLYING WITH ASTM C 1136. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
1. ABI, IDEAL TAPE DIVISION; 491 AWF FSK.
2. AVERY DENNISON CORPORATION, SPECIALTY TAPES DIVISION; FASSON 0827.
3. COMPAC CORPORATION; 110 AND 111.
4. VENTURE TAPE; 1525 CW NT, 1528 CW, AND 1528 CW/SQ.

WIDTH: 3 INCHES (75 MM).
THICKNESS: 6.5 MILS (0.16 MM).
ADHESION: 90 OUNCES FORCE/INCH (1.0 N/MM) IN WIDTH.
ELONGATION: 2 PERCENT.
TENSILE STRENGTH: 40 LBF/INCH (7.2 N/MM) IN WIDTH.
FSK TAPE DISKS AND SQUARES: PRECUT DISKS OR SQUARES OF FSK TAPE.

H. SECUREMENTS
BANDS:
PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
1. ITW INSULATION SYSTEMS; GERRARD STRAPPING AND SEALS.
2. RPR PRODUCTS, INC.; INSUL-MATE STRAPPING, SEALS, AND SPRINGS.

ALUMINUM: ASTM B 209 (ASTM B 209M), ALLOY 3003, 3005, 3105, OR 5005; TEMPER H-14, 0.020 INCH (0.51 MM) THICK, 1/2 INCH (13 MM) WIDE WITH WING SEAL OR CLOSED SEAL.

I. INSULATION PINS AND HANGERS:
CAPACITOR-DISCHARGE-WELD PINS: COPPER- OR ZINC-COATED STEEL PIN, FULLY ANNEALED FOR CAPACITOR-DISCHARGE WELDING, 0.106-INCH- (2.6-MM-) DIAMETER SHANK, LENGTH TO SUIT DEPTH OF INSULATION INDICATED. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
1. AGM INDUSTRIES, INC.; CWP-1.
2. GEMCO; CD.
3. MIDWEST FASTENERS, INC.; CD.
4. NELSON STUD WELDING; TPA, TPC, AND TPS.

J. INSTALLATION OF MINERAL-FIBER INSULATION:
BLANKET INSULATION INSTALLATION ON DUCTS AND PLENUMS: SECURE WITH ADHESIVE AND INSULATION PINS. APPLY ADHESIVES ACCORDING TO MANUFACTURER'S RECOMMENDED COVERAGE RATES PER UNIT AREA, FOR 100 PERCENT COVERAGE OF DUCT AND PLENUM SURFACES. APPLY ADHESIVE TO ENTIRE CIRCUMFERENCE OF DUCTS AND TO ALL SURFACES OF FITTINGS AND TRANSITIONS. INSTALL EITHER CAPACITOR-DISCHARGE-WELD PINS AND SPEED WASHERS OR CUPPED-HEAD, CAPACITOR-DISCHARGE-WELD PINS ON SIDES AND BOTTOM OF HORIZONTAL DUCTS AND SIDES OF VERTICAL DUCTS AS FOLLOWS:
1. ON DUCT SIDES WITH DIMENSIONS 18 INCHES (450 MM) AND SMALLER, PLACE PINS ALONG LONGITUDINAL CENTERLINE OF DUCT. SPACE 3 INCHES (75 MM) MAXIMUM FROM INSULATION END JOINTS, AND 16 INCHES (400 MM) O.C.
2. ON DUCT SIDES WITH DIMENSIONS LARGER THAN 18 INCHES (450 MM), PLACE PINS 16 INCHES (400 MM) O.C. EACH WAY, AND 3 INCHES (75 MM) MAXIMUM FROM INSULATION JOINTS. INSTALL ADDITIONAL PINS TO HOLD INSULATION TIGHTLY AGAINST SURFACE AT CROSS BRACING.
3. PINS MAY BE OMITTED FROM TOP SURFACE OF HORIZONTAL, RECTANGULAR DUCTS AND PLENUMS.
4. DO NOT OVERCOMPRESS INSULATION DURING INSTALLATION.
5. IMPALE INSULATION OVER PINS AND ATTACH SPEED WASHERS.
6. CUT EXCESS PORTION OF PINS EXTENDING BEYOND SPEED WASHERS OR BEND PARALLEL WITH INSULATION SURFACE. COVER EXPOSED PINS AND WASHERS WITH TAPE MATCHING INSULATION FACING.

FOR DUCTS AND PLENUMS WITH SURFACE TEMPERATURES BELOW AMBIENT, INSTALL A CONTINUOUS UNBROKEN VAPOR BARRIER. CREATE A FACING LAP FOR LONGITUDINAL SEAMS AND END JOINTS WITH INSULATION BY REMOVING 2 INCHES (50 MM) FROM ONE EDGE AND ONE END OF INSULATION SEGMENT. SECURE LAPS TO ADJACENT INSULATION SECTION WITH 1/2-INCH (13-MM) OUTWARD-CLINCHING STAPLES, 1 INCH (25 MM) O.C. INSTALL VAPOR BARRIER CONSISTING OF FACTORY- OR FIELD-APPLIED JACKET, ADHESIVE, VAPOR-BARRIER MASTIC, AND SEALANT AT JOINTS, SEAMS, AND PROTRUSIONS.
1. REPAIR PUNCTURES, TEARS, AND PENETRATIONS WITH TAPE OR MASTIC TO MAINTAIN VAPOR-BARRIER SEAL.
2. INSTALL VAPOR STOPS FOR DUCTWORK AND PLENUMS OPERATING BELOW 50 DEG F (10 DEG C) AT 18-FOOT (5.5-M) INTERVALS. VAPOR STOPS SHALL CONSIST OF VAPOR-BARRIER MASTIC APPLIED IN A Z-SHAPED PATTERN OVER INSULATION FACE, ALONG BUTT END OF INSULATION, AND OVER THE SURFACE. COVER INSULATION FACE AND SURFACE TO BE INSULATED A WIDTH EQUAL TO TWO TIMES THE INSULATION THICKNESS, BUT NOT LESS THAN 3 INCHES (75 MM).

OVERLAP UNFACED BLANKETS A MINIMUM OF 2 INCHES (50 MM) ON LONGITUDINAL SEAMS AND END JOINTS. AT END JOINTS, SECURE WITH STEEL BANDS SPACED A MAXIMUM OF 18 INCHES (450 MM) O.C. INSTALL INSULATION ON RECTANGULAR DUCT ELBOWS AND TRANSITIONS WITH A FULL INSULATION SECTION FOR EACH SURFACE. INSTALL INSULATION ON ROUND AND FLAT-OVAL DUCT ELBOWS WITH INDIVIDUALLY MITERED GORES CUT TO FIT THE ELBOW. INSULATE DUCT STIFFENERS, HANGERS, AND FLANGES THAT PROTRUDE BEYOND INSULATION SURFACE WITH 6-INCH- (150-MM-) WIDE STRIPS OF SAME MATERIAL USED TO INSULATE DUCT. SECURE ON ALTERNATING SIDES OF STIFFENER, HANGER, AND FLANGE WITH PINS SPACED 6 INCHES (150 MM) O.C.

DUCT LINER

A. FIBROUS-GLASS DUCT LINER: COMPLY WITH ASTM C 1071, NFPA 90A, OR NFPA 90B; AND WITH NAIMA AH124, "FIBROUS GLASS DUCT LINER STANDARD."

B. MAXIMUM THERMAL CONDUCTIVITY:
TYPE I, FLEXIBLE: 0.27 BTU X IN./H X SQ. FT. X DEG F (0.039 W/M X K) AT 75 DEG F (24 DEG C) MEAN TEMPERATURE. R6 EQUIVALENT.
TYPE II, RIGID: 0.23 BTU X IN./H X SQ. FT. X DEG F (0.033 W/M X K) – R6 EQUIVALENT.
ANTIMICROBIAL EROSION-RESISTANT COATING: APPLY TO THE SURFACE OF THE LINER THAT WILL FORM THE INTERIOR SURFACE OF THE DUCT TO ACT AS A MOISTURE REPELLENT AND EROSION-RESISTANT COATING. ANTIMICROBIAL COMPOUND SHALL BE TESTED FOR EFFICACY BY AN NRTL AND REGISTERED BY THE EPA FOR USE IN HVAC SYSTEMS.
WATER-BASED LINER ADHESIVE: COMPLY WITH NFPA 90A OR NFPA 90B AND WITH ASTM C 916. FOR INDOOR APPLICATIONS, USE ADHESIVE THAT HAS A VOC CONTENT OF 80 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).

C. SHOP APPLICATION OF DUCT LINER: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE," FIGURE 7-11, "FLEXIBLE DUCT LINER INSTALLATION." ADHERE A SINGLE LAYER OF INDICATED THICKNESS OF DUCT LINER WITH 100 PERCENT ADHESIVE COVERAGE AT LINER CONTACT SURFACE AREA. ATTAINING INDICATED THICKNESS WITH MULTIPLE LAYERS OF DUCT LINER IS PROHIBITED.

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REGISTERED PROFESSIONAL ENGINEER

DRAWING TITLE
MEP SPECIFICATIONS

SHEET NO.
MEP-1.00

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. VIEGA; 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 FOLLOW 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 UP THROUGH 2-1/2" DIAMETER MECHANICAL PRESS (PRO-PRESS) JOINTS AND FIITINGS INCLUDING THE SMART CONNECTION FEATURE OPTION TO ENSURE THAT UNPRESSED FITTING WILL EASILY AND RELIABLY DETECTED DURING PRESSURE TESTING AS MANUFACTURER BY VIEGA, 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 FOLLWING:

      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-WH201.
   3. TYPE: COPPER SUBE WITH PISTON.
   4. SIZE: ASSE 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: ASME B16.45 OR 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 IN CONCEALED LOCATIONS 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 CROSSES MAY BE USED ON VENT LINES. DO NOT CHANGE DIRECTION OF FLOW MORE THAN 90 DEGREES. USE PROPER SIZE OF STANDARD INCREASERS AND 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 HANGER 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 INTRODUCING ADDITIONAL AIR 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 A 74, 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 COVER PLATE WITH SCREW.
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 BASE OF 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 GRATES OF DRAINS FLUSH WITH FINISHED FLOOR, UNLESS OTHERWISE INDICATED.
H. INSTALL ROOF FLASHING ASSEMBLIES ON SANITARY STACK VENTS AND VENT STACKS THAT EXTEND THROUGH ROOF.
I. ASSEMBLE OPEN DRAIN FITTINGS AND INSTALL WITH TOP OF HUB 2 INCHES (51 MM) ABOVE FLOOR.
J. INSTALL DEEP-SEAL TRAPS ON FLOOR DRAINS AND OTHER WASTE OUTLETS, IF INDICATED.
K. INSTALL FLOOR-DRAIN, TRAP-SEAL PRIMER FITTINGS ON INLET TO FLOOR DRAINS THAT REQUIRE TRAP-SEAL PRIMER CONNECTION.
   1. EXCEPTION: FITTING MAY BE OMITTED IF TRAP HAS TRAP-SEAL PRIMER CONNECTION.
   2. SIZE: SAME AS FLOOR DRAIN INLET.
L. INSTALL AIR-GAP FITTINGS ON DRAINING-TYPE BACKFLOW PREVENTERS AND ON INDIRECT-WASTE PIPING DISCHARGE INTO SANITARY DRAINAGE SYSTEM.

PLUMBING FIXTURES

A. ASSEMBLE PLUMBING FIXTURES, TRIM, FITTINGS, AND OTHER COMPONENTS ACCORDING TO MANUFACTURERS' WRITTEN INSTRUCTIONS.
   1. INSTALL OFF-FLOOR SUPPORTS, AFFIXED TO BUILDING SUBSTRATE, FOR WALL-MOUNTING FIXTURES.
   2. USE CARRIER SUPPORTS WITH WASTE FITTING AND SEAL FOR BACK-OUTLET FIXTURES.
   3. USE CARRIER SUPPORTS WITHOUT WASTE FITTING FOR FIXTURES WITH TUBULAR WASTE PIPING.
B. USE CHAIR-TYPE CARRIER SUPPORTS WITH RECTANGULAR STEEL UPRIGHTS FOR ACCESSIBLE FIXTURES.
C. INSTALL BACK-OUTLET, WALL-MOUNTING FIXTURES ONTO WASTE FITTING SEALS AND ATTACH TO SUPPORTS.
D. INSTALL FLOOR-MOUNTING FIXTURES ON CLOSET FLANGES OR OTHER ATTACHMENTS TO PIPING OR BUILDING SUBSTRATE.
E. INSTALL WALL-MOUNTING FIXTURES WITH TUBULAR WASTE PIPING ATTACHED TO SUPPORTS.
F. INSTALL FLOOR-MOUNTING, BACK-OUTLET WATER CLOSETS ATTACHED TO BUILDING FLOOR SUBSTRATE AND WALL BRACKET AND ONTO WASTE FITTING SEALS.
G. INSTALL COUNTER-MOUNTING FIXTURES IN AND ATTACHED TO CASEWORK.
H. INSTALL FIXTURES LEVEL AND PLUMB ACCORDING TO ROUGHING-IN DRAWINGS.
I. INSTALL WATER-SUPPLY PIPING WITH STOP ON EACH SUPPLY TO EACH FIXTURE TO BE CONNECTED TO WATER DISTRIBUTION PIPING. ATTACH SUPPLIES TO SUPPORTS OR SUBSTRATE WITHIN PIPE SPACES BEHIND FIXTURES. INSTALL STOPS IN LOCATIONS WHERE THEY CAN BE EASILY REACHED FOR OPERATION.
J. EXCEPTION: USE BALL VALVES IF SUPPLY STOPS ARE NOT SPECIFIED WITH FIXTURE.
K. INSTALL TRAP AND TUBULAR WASTE PIPING ON DRAIN OUTLET OF EACH FIXTURE TO BE DIRECTLY CONNECTED TO SANITARY DRAINAGE SYSTEM.
L. INSTALL TUBULAR WASTE PIPING ON DRAIN OUTLET OF EACH FIXTURE TO BE INDIRECTLY CONNECTED TO DRAINAGE SYSTEM.
M. INSTALL FLUSHOMETER VALVES FOR ACCESSIBLE WATER CLOSETS AND URINALS WITH HANDLE MOUNTED ON WIDE SIDE OF COMPARTMENT. INSTALL OTHER ACTUATORS IN LOCATIONS THAT ARE EASY FOR PEOPLE WITH DISABILITIES TO REACH.
N. INSTALL TANKS FOR ACCESSIBLE, TANK-TYPE WATER CLOSETS WITH LEVER HANDLE MOUNTED ON WIDE SIDE OF COMPARTMENT.
O. INSTALL OPEN FRONT TOILET SEATS ON WATER CLOSETS.
P. INSTALL WATER-SUPPLY FLOW-CONTROL FITTINGS WITH SPECIFIED FLOW RATES IN FIXTURE SUPPLIES AT STOP VALVES.
Q. INSTALL FAUCET FLOW-CONTROL FITTINGS WITH SPECIFIED FLOW RATES AND PATTERNS IN FAUCET SPOUTS IF FAUCETS ARE NOT AVAILABLE WITH REQUIRED RATES AND PATTERNS. INCLUDE ADAPTERS IF REQUIRED.
R. INSTALL SHOWER FLOW-CONTROL FITTINGS WITH SPECIFIED MAXIMUM FLOW RATES IN SHOWER ARMS.
S. INSTALL TRAPS ON FIXTURE OUTLETS.
   1. EXCEPTION: OMIT TRAP ON FIXTURES WITH INTEGRAL TRAPS.
   2. EXCEPTION: OMIT TRAP ON INDIRECT WASTES, UNLESS OTHERWISE INDICATED.
U. INSTALL ESCUTCHEONS AT PIPING WALL CEILING PENETRATIONS IN EXPOSED, FINISHED LOCATIONS AND WITHIN CABINETS AND MILLWORK. USE DEEP-PATTERN ESCUTCHEONS IF REQUIRED TO CONCEAL PROTRUDING FITTINGS.
V. SEAL JOINTS BETWEEN FIXTURES AND WALLS, FLOORS, AND COUNTERTOPS USING SANITARY-TYPE, ONE-PART, MILDEW-RESISTANT SILICONE SEALANT. MATCH SEALANT COLOR TO FIXTURE COLOR.
W. VERIFY THAT INSTALLED PLUMBING FIXTURES ARE CATEGORIES AND TYPES SPECIFIED FOR LOCATIONS WHERE INSTALLED.
X. CHECK THAT PLUMBING FIXTURES ARE COMPLETE WITH TRIM, FAUCETS, FITTINGS, AND OTHER SPECIFIED COMPONENTS.
Y. INSPECT INSTALLED PLUMBING FIXTURES FOR DAMAGE. REPLACE DAMAGED FIXTURES AND COMPONENTS.
Z. TEST INSTALLED FIXTURES AFTER WATER SYSTEMS ARE PRESSURIZED FOR PROPER OPERATION. REPLACE MALFUNCTIONING FIXTURES AND COMPONENTS, THEN RETEST. REPEAT PROCEDURE UNTIL UNITS OPERATE PROPERLY.
AA. INSTALL FRESH BATTERIES IN SENSOR-OPERATED MECHANISMS.
AB. CLEAN FIXTURES, FAUCETS, AND OTHER FITTINGS WITH MANUFACTURERS' RECOMMENDED CLEANING METHODS AND MATERIALS. DO THE FOLLOWING:
   1. REMOVE FAUCET SPOUTS AND STRAINERS, REMOVE SEDIMENT AND DEBRIS, AND REINSTALL STRAINERS AND SPOUTS.
   2. REMOVE SEDIMENT AND DEBRIS FROM DRAINS.
AC. AFTER COMPLETING INSTALLATION OF EXPOSED, FACTORY-FINISHED FIXTURES, FAUCETS, AND FITTINGS, INSPECT EXPOSED FINISHES AND REPAIR DAMAGED FINISHES.

PLUMBING PIPING INSULATION

A. INSULATION MATERIALS
PRODUCTS SHALL NOT CONTAIN ASBESTOS, LEAD, MERCURY, OR MERCURY COMPOUNDS.
PRODUCTS THAT COME IN CONTACT WITH STAINLESS STEEL SHALL HAVE A LEACHABLE CHLORIDE CONTENT OF LESS THAN 50 PPM WHEN TESTED ACCORDING TO ASTM C 871.

B. FOAM INSULATION MATERIALS SHALL NOT USE CFC OR HCFC BLOWING AGENTS IN THE MANUFACTURING PROCESS.

C. MINERAL-FIBER, PREFORMED PIPE INSULATION:
PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE FOLLOWING] [PROVIDE ONE OF THE FOLLOWING:
   1. CERTAIN TEED, CO.
   2. JOHNS MANVILLE; MICRO-LOK.
   3. KNAUF INSULATION; 1000-DEGREE PIPE INSULATION.
   4. MANSON INSULATION INC.; ALLEY-K.
   5. OWENS CORNING; FIBERGLAS PIPE INSULATION.

TYPE I, 850 DEG F (454 DEG C) MATERIALS: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 547, TYPE I, GRADE A, WITH FACTORY-APPLIED ASJ-SSL. FACTORY-APPLIED JACKET REQUIREMENTS ARE SPECIFIED IN "FACTORY-APPLIED JACKETS" ARTICLE.

D. MINERAL-FIBER INSULATING CEMENT: COMPLY WITH ASTM C 195.
PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE FOLLOWING:
   1. RAMCO INSULATION, INC.; SUPER-STIK.

E. MINERAL-FIBER, HYDRAULIC-SETTING INSULATING AND FINISHING CEMENT: COMPLY WITH ASTM C 449.
PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE THE FOLLOWING:
   1. RAMCO INSULATION, INC.; RAMCOTE 1200 AND QUIK-COTE.

F. ADHESIVES
MATERIALS SHALL BE COMPATIBLE WITH INSULATION MATERIALS, JACKETS, AND SUBSTRATES AND FOR BONDING INSULATION TO ITSELF AND TO SURFACES TO BE INSULATED, UNLESS OTHERWISE INDICATED.
MINERAL-FIBER ADHESIVE: COMPLY WITH MIL-A-3316C, CLASS 2, GRADE A.
PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
   1. CHILDERS BRAND, SPECIALTY CONSTRUCTION BRANDS, INC., A BUSINESS OF H. B. FULLER COMPANY; CP-127.
   2. EAGLE BRIDGES - MARATHON INDUSTRIES; 225.
   3. FOSTER BRAND, SPECIALTY CONSTRUCTION BRANDS, INC., A BUSINESS OF H. B. FULLER COMPANY; 85-60/85-70.
   4. MON-ECO INDUSTRIES, INC.; 22-25.

FOR INDOOR APPLICATIONS, USE ADHESIVE THAT HAS A VOC CONTENT OF 80 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).

G. ASJ ADHESIVE, AND FSK JACKET ADHESIVE: COMPLY WITH MIL-A-3316C, CLASS 2, GRADE A FOR BONDING INSULATION JACKET LAP SEAMS AND JOINTS.
PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
   1. CHILDERS BRAND, SPECIALTY CONSTRUCTION BRANDS, INC., A BUSINESS OF H. B. FULLER COMPANY; CP-82.
   2. EAGLE BRIDGES - MARATHON INDUSTRIES; 225.
   3. FOSTER BRAND, SPECIALTY CONSTRUCTION BRANDS, INC., A BUSINESS OF H. B. FULLER COMPANY; 85-20.
   4. MON-ECO INDUSTRIES, INC.; 22-25.

FOR INDOOR APPLICATIONS, USE ADHESIVE THAT HAS A VOC CONTENT OF 50 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).

H. MASTICS: MATERIALS SHALL BE COMPATIBLE WITH INSULATION MATERIALS, JACKETS, AND SUBSTRATES; COMPLY WITH MIL-PRF-19565C, TYPE II. FOR INDOOR APPLICATIONS, USE MASTICS THAT HAVE A VOC CONTENT OF 50 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).

I. VAPOR-BARRIER MASTIC: SOLVENT BASED; SUITABLE FOR INDOOR USE ON BELOW-AMBIENT SERVICES.
PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
   1. CHILDERS BRAND, SPECIALTY CONSTRUCTION BRANDS, INC., A BUSINESS OF H. B. FULLER COMPANY; CP-30.
   2. EAGLE BRIDGES - MARATHON INDUSTRIES; 501.
   3. FOSTER BRAND, SPECIALTY CONSTRUCTION BRANDS, INC., A BUSINESS OF H. B. FULLER COMPANY; 30-35.
   4. MON-ECO INDUSTRIES, INC.; 55-10.

WATER-VAPOR PERMEANCE: ASTM F 1249, 0.05 PERM (0.03 METRIC PERM) AT 35-MIL (0.9-MM) DRY FILM THICKNESS.
SERVICE TEMPERATURE RANGE: 0 TO 180 DEG F (MINUS 18 TO PLUS 82 DEG C).
SOLIDS CONTENT: ASTM D 1644, 44 PERCENT BY VOLUME AND 62 PERCENT BY WEIGHT.
COLOR: WHITE.

J. JOINT SEALANTS:
ASJ FLASHING SEALANTS, AND VINYL, PVDC, AND PVC JACKET FLASHING SEALANTS:
PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
   1. CHILDERS BRAND, SPECIALTY CONSTRUCTION BRANDS, INC., A BUSINESS OF H. B. FULLER COMPANY; CP-76.

MATERIALS SHALL BE COMPATIBLE WITH INSULATION MATERIALS, JACKETS, AND SUBSTRATES.
FIRE- AND WATER-RESISTANT, FLEXIBLE, ELASTOMERIC SEALANT.
SERVICE TEMPERATURE RANGE: MINUS 40 TO PLUS 250 DEG F (MINUS 40 TO PLUS 121 DEG C).
COLOR: WHITE.
FOR INDOOR APPLICATIONS, USE SEALANTS THAT HAVE A VOC CONTENT OF 420 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).

K. FACTORY-APPLIED JACKETS: INSULATION SYSTEM SCHEDULES INDICATE FACTORY-APPLIED JACKETS ON VARIOUS APPLICATIONS. WHEN FACTORY-APPLIED JACKETS ARE INDICATED, COMPLY WITH THE FOLLOWING:
ASJ-SSL: ASJ WITH SELF-SEALING, PRESSURE-SENSITIVE, ACRYLIC-BASED ADHESIVE COVERED BY A REMOVABLE PROTECTIVE STRIP; COMPLYING WITH ASTM C 1136, TYPE I.

L. ASJ TAPE: WHITE VAPOR-RETARDER TAPE MATCHING FACTORY-APPLIED JACKET WITH ACRYLIC ADHESIVE, COMPLYING WITH ASTM C 1136. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
   1. ABI, IDEAL TAPE DIVISION; 428 AWF ASJ.
   2. AVERY DENNISON CORPORATION, SPECIALTY TAPES DIVISION; FASSON 0836.
   3. COMPAC CORPORATION; 104 AND 105.
   4. VENTURE TAPE; 1540 CW PLUS, 1542 CW PLUS, AND 1542 CW PLUS/SQ.

WIDTH: 3 INCHES (75 MM).
THICKNESS: 11.5 MILS (0.29 MM).
ADHESION: 90 OUNCES FORCE/INCH (1.0 N/MM) IN WIDTH.
ELONGATION: 2 PERCENT.
TENSILE STRENGTH: 40 LBF/INCH (7.2 N/MM) IN WIDTH.
ASJ TAPE DISKS AND SQUARES: PRECUT DISKS OR SQUARES OF ASJ TAPE.

M. PROTECTIVE SHIELDING PIPE COVERS:
MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
   1. INSUL-TECT PRODUCTS CO.; A SUBSIDIARY OF MVG MOLDED PRODUCTS.
   2. MCGUIRE MANUFACTURING.
   3. PLUMBEREX.
   4. TRUEBRO; A BRAND OF IPS CORPORATION.

DESCRIPTION: MANUFACTURED PLASTIC WRAPS FOR COVERING PLUMBING FIXTURE HOT- AND COLD-WATER SUPPLIES AND TRAP AND DRAIN PIPING. COMPLY WITH AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS.

N. GENERAL INSTALLATION REQUIREMENTS:
INSTALL INSULATION MATERIALS, ACCESSORIES, AND FINISHES WITH SMOOTH, STRAIGHT, AND EVEN SURFACES; FREE OF VOIDS THROUGHOUT THE LENGTH OF PIPING INCLUDING FITTINGS, VALVES, AND SPECIALTIES.
O. INSTALL INSULATION MATERIALS, FORMS, VAPOR BARRIERS OR RETARDERS, JACKETS, AND THICKNESSES REQUIRED FOR EACH ITEM OF PIPE SYSTEM AS SPECIFIED IN INSULATION SYSTEM SCHEDULES.
P. INSTALL ACCESSORIES COMPATIBLE WITH INSULATION MATERIALS AND SUITABLE FOR THE SERVICE. INSTALL ACCESSORIES THAT DO NOT CORRODE, SOFTEN, OR OTHERWISE ATTACK INSULATION OR JACKET IN EITHER WET OR DRY STATE.
Q. INSTALL INSULATION WITH LONGITUDINAL SEAMS AT TOP AND BOTTOM OF HORIZONTAL RUNS.
R. INSTALL MULTIPLE LAYERS OF INSULATION WITH LONGITUDINAL AND END SEAMS STAGGERED.
S. DO NOT WELD BRACKETS, CLIPS, OR OTHER ATTACHMENT DEVICES TO PIPING, FITTINGS, AND SPECIALTIES.
T. KEEP INSULATION MATERIALS DRY DURING APPLICATION AND FINISHING.
U. INSTALL INSULATION WITH TIGHT LONGITUDINAL SEAMS AND END JOINTS. BOND SEAMS AND JOINTS WITH ADHESIVE RECOMMENDED BY INSULATION MATERIAL MANUFACTURER.
V. INSTALL INSULATION WITH LEAST NUMBER OF JOINTS PRACTICAL.
W. WHERE VAPOR BARRIER IS INDICATED, SEAL JOINTS, SEAMS, AND PENETRATIONS IN INSULATION AT HANGERS, SUPPORTS, ANCHORS, AND OTHER PROJECTIONS WITH VAPOR-BARRIER MASTIC.
   1. INSTALL INSULATION CONTINUOUSLY THROUGH HANGERS AND AROUND ANCHOR ATTACHMENTS.
   2. FOR INSULATION APPLICATION WHERE VAPOR BARRIERS ARE INDICATED, EXTEND INSULATION ON ANCHOR LEGS FROM POINT OF ATTACHMENT TO SUPPORTED ITEM TO POINT OF ATTACHMENT TO STRUCTURE. TAPER AND SEAL ENDS AT ATTACHMENT TO STRUCTURE WITH VAPOR-BARRIER MASTIC.
   3. INSTALL INSERT MATERIALS AND INSTALL INSULATION TO TIGHTLY JOIN THE INSERT. SEAL INSULATION TO INSULATION INSERTS WITH ADHESIVE OR SEALING COMPOUND RECOMMENDED BY INSULATION MATERIAL MANUFACTURER.
   4. COVER INSERTS WITH JACKET MATERIAL MATCHING ADJACENT PIPE INSULATION. INSTALL SHIELDS OVER JACKET, ARRANGED TO PROTECT JACKET FROM TEAR OR PUNCTURE BY HANGER, SUPPORT, AND SHIELD.
X. APPLY ADHESIVES, MASTICS, AND SEALANTS AT MANUFACTURER'S RECOMMENDED COVERAGE RATE AND WET AND DRY FILM THICKNESSES.
Y. INSTALL INSULATION WITH FACTORY-APPLIED JACKETS AS FOLLOWS:
   1. DRAW JACKET TIGHT AND SMOOTH.
   2. COVER CIRCUMFERENTIAL JOINTS WITH 3-INCH- (75-MM-) WIDE STRIPS, OF SAME MATERIAL AS INSULATION JACKET. SECURE STRIPS WITH ADHESIVE AND OUTWARD CLINCHING STAPLES ALONG BOTH EDGES OF STRIP, SPACED 4 INCHES (100 MM) O.C.
   3. OVERLAP JACKET LONGITUDINAL SEAMS AT LEAST 1-1/2 INCHES (38 MM). INSTALL INSULATION WITH LONGITUDINAL SEAMS AT BOTTOM OF PIPE. CLEAN AND DRY SURFACE TO RECEIVE SELF-SEALING LAP. STAPLE LAPS WITH OUTWARD CLINCHING STAPLES ALONG EDGE AT 4 INCHES (100 MM) O.C.
   4. FOR BELOW-AMBIENT SERVICES, APPLY VAPOR-BARRIER MASTIC OVER STAPLES.
   5. COVER JOINTS AND SEAMS WITH TAPE, ACCORDING TO INSULATION MATERIAL MANUFACTURER'S WRITTEN INSTRUCTIONS, TO MAINTAIN VAPOR SEAL.
   6. WHERE VAPOR BARRIERS ARE INDICATED, APPLY VAPOR-BARRIER MASTIC ON SEAMS AND JOINTS AND AT ENDS ADJACENT TO PIPE FLANGES AND FITTINGS.

A. CUT INSULATION IN A MANNER TO AVOID COMPRESSING INSULATION MORE THAN 75 PERCENT OF ITS NOMINAL THICKNESS.
B. FINISH INSTALLATION WITH SYSTEMS AT OPERATING CONDITIONS. REPAIR JOINT SEPARATIONS AND CRACKING DUE TO THERMAL MOVEMENT.
C. REPAIR DAMAGED INSULATION FACINGS BY APPLYING SAME FACING MATERIAL OVER DAMAGED AREAS. EXTEND PATCHES AT LEAST 4 INCHES (100 MM) BEYOND DAMAGED AREAS. ADHERE, STAPLE, AND SEAL PATCHES SIMILAR TO BUTT JOINTS.
D. FOR ABOVE-AMBIENT SERVICES, DO NOT INSTALL INSULATION TO THE FOLLOWING:
   1. VIBRATION-CONTROL DEVICES.
   2. TESTING AGENCY LABELS AND STAMPS.
   3. NAMEPLATES AND DATA PLATES.
   4. CLEANOUTS.
E. INSTALLATION OF MINERAL-FIBER INSULATION:
INSULATION INSTALLATION ON STRAIGHT PIPES AND TUBES:
   1. SECURE EACH LAYER OF PREFORMED PIPE INSULATION TO PIPE WITH WIRE OR BANDS AND TIGHTEN BANDS WITHOUT DEFORMING INSULATION MATERIALS.
   2. WHERE VAPOR BARRIERS ARE INDICATED, SEAL LONGITUDINAL SEAMS, END JOINTS, AND PROTRUSIONS WITH VAPOR-BARRIER MASTIC AND JOINT SEALANT.
   3. FOR INSULATION WITH FACTORY-APPLIED JACKETS ON ABOVE-AMBIENT SURFACES, SECURE LAPS WITH OUTWARD CLINCHED STAPLES AT 6 INCHES (150 MM) O.C.
   4. FOR INSULATION WITH FACTORY-APPLIED JACKETS ON BELOW-AMBIENT SURFACES, DO NOT STAPLE LONGITUDINAL TABS. INSTEAD, SECURE TABS WITH ADDITIONAL ADHESIVE AS RECOMMENDED BY INSULATION MATERIAL MANUFACTURER AND SEAL WITH VAPOR-BARRIER MASTIC AND FLASHING SEALANT.
F. INSULATION INSTALLATION ON PIPE FLANGES:
   1. INSTALL PREFORMED PIPE INSULATION TO OUTER DIAMETER OF PIPE FLANGE.
   2. MAKE WIDTH OF INSULATION SECTION SAME AS OVERALL WIDTH OF FLANGE AND BOLTS, PLUS TWICE THE THICKNESS OF PIPE INSULATION.
   3. FILL VOIDS BETWEEN INNER CIRCUMFERENCE OF FLANGE INSULATION AND OUTER CIRCUMFERENCE OF ADJACENT STRAIGHT PIPE SEGMENTS WITH MINERAL-FIBER BLANKET INSULATION.
   4. INSTALL JACKET MATERIAL WITH MANUFACTURER'S RECOMMENDED ADHESIVE, OVERLAP SEAMS AT LEAST 1 INCH (25 MM), AND SEAL JOINTS WITH FLASHING SEALANT.
G. INSULATION INSTALLATION ON PIPE FITTINGS AND ELBOWS:
   1. INSTALL PREFORMED SECTIONS OF SAME MATERIAL AS STRAIGHT SEGMENTS OF PIPE INSULATION WHEN AVAILABLE.
   2. WHEN PREFORMED INSULATION ELBOWS AND FITTINGS ARE NOT AVAILABLE, INSTALL MITERED SECTIONS OF PIPE INSULATION, TO A THICKNESS EQUAL TO ADJOINING PIPE INSULATION. SECURE INSULATION MATERIALS WITH WIRE OR BANDS.
H. INSULATION INSTALLATION ON VALVES AND PIPE SPECIALTIES:
   1. INSTALL PREFORMED SECTIONS OF SAME MATERIAL AS STRAIGHT SEGMENTS OF PIPE INSULATION WHEN AVAILABLE.
   2. WHEN PREFORMED SECTIONS ARE NOT AVAILABLE, INSTALL MITERED SECTIONS OF PIPE INSULATION TO VALVE BODY.
   3. ARRANGE INSULATION TO PERMIT ACCESS TO PACKING AND TO ALLOW VALVE OPERATION WITHOUT DISTURBING INSULATION.
   4. INSTALL INSULATION TO FLANGES AS SPECIFIED FOR FLANGE INSULATION APPLICATION.

INDOOR PIPING INSULATION SCHEDULE

A. DOMESTIC HOT AND RECIRCULATED HOT WATER:
NPS 2 (DN 25) AND SMALLER: INSULATION SHALL BE THE FOLLOWING:
   1. MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I: 1 INCH (25 MM) THICK.
NPS 2-1/2 (DN 32) AND LARGER: INSULATION SHALL BE THE FOLLOWING:
   2. MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I: 1-1/2 INCH (25 MM) THICK.

B. STORMWATER AND OVERFLOW:
ALL PIPE SIZES: INSULATION SHALL BE THE FOLLOWING:
MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I: 1-1/2 INCH (25 MM) THICK.

C. ROOF DRAIN AND OVERFLOW DRAIN BODIES:
ALL PIPE SIZES: INSULATION SHALL BE THE FOLLOWING:
MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I: 1-1/2 INCH (25 MM) THICK.

D. EXPOSED SANITARY DRAINS, DOMESTIC WATER, DOMESTIC HOT WATER, AND STOPS FOR PLUMBING FIXTURES FOR PEOPLE WITH DISABILITIES:
ALL PIPE SIZES: INSULATION SHALL THE FOLLOWING:
MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I: 1/2 INCH (13 MM) THICK.

E. FLOOR DRAINS, TRAPS, AND SANITARY DRAIN PIPING WITHIN 10 FEET (3 M) OF DRAIN RECEIVING CONDENSATE AND EQUIPMENT DRAIN WATER BELOW 60 DEG F (16 DEG C):
ALL PIPE SIZES: INSULATION SHALL BE THE FOLLOWING:
MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I: 1 INCH (25 MM).

FIRE PROTECTION

FIRE SUPPRESSION

A. COMPLY WITH REQUIREMENTS FOR INSTALLATION OF SPRINKLER PIPING IN NFPA 13.

B. STEEL PIPE AND FITTINGS: SCHEDULE 40 BLACK STEEL PIPE: ASTM A 53/A 53M. PIPE ENDS MAY BE FACTORY OR FIELD FORMED TO MATCH JOINING METHOD.

C. USE LISTED FITTINGS TO MAKE CHANGES IN DIRECTION, BRANCH TAKEOFFS FROM MAINS, AND REDUCTIONS IN PIPE SIZES.

D. INSTALL UNIONS ADJACENT TO EACH VALVE IN PIPES NPS 2 (DN 50) AND SMALLER.

E. INSTALL FLANGES, FLANGE ADAPTERS, OR COUPLINGS FOR GROOVED-END PIPING ON VALVES, APPARATUS, AND EQUIPMENT HAVING NPS 2-1/2 (DN 65) AND LARGER END CONNECTIONS.

F. INSTALL "INSPECTOR'S TEST CONNECTIONS" IN SPRINKLER SYSTEM PIPING, COMPLETE WITH SHUTOFF VALVE, AND SIZED AND LOCATED ACCORDING TO NFPA 13.

G. INSTALL SPRINKLER PIPING WITH DRAINS FOR COMPLETE SYSTEM DRAINAGE.

H. INSTALL SPRINKLER CONTROL VALVES, TEST ASSEMBLIES, AND DRAIN RISERS ADJACENT TO STANDPIPES WHEN SPRINKLER PIPING IS CONNECTED TO STANDPIPES.

I. INSTALL ALARM DEVICES IN PIPING SYSTEMS.

J. INSTALL HANGERS AND SUPPORTS FOR SPRINKLER SYSTEM PIPING ACCORDING TO NFPA 13. COMPLY WITH REQUIREMENTS FOR HANGER MATERIALS IN NFPA 13.

K. FILL SPRINKLER SYSTEM PIPING WITH WATER.

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

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

N. SPRINKLER INSTALLATION: INSTALL SPRINKLERS IN SUSPENDED CEILINGS IN CENTER OF ACOUSTICAL CEILING PANELS.

O. FIRE SPRINKLER CONTRACTOR SHALL VERIFY LOCATION OF EXISTING SPRINKLER HEADS AND SHALL BE RESPONSIBLE FOR THE NECESSARY MODIFICATIONS TO PIPING. SPRINKLER CONTRACTOR SHALL REVISE PIPING TO ACCOMMODATE CEILING MOUNTED SPRINKLER HEADS TO MATCH BUILDING STANDARD, AND SHALL ADD OR RELOCATE SPRINKLER HEADS AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH NFPA, STATE AND LOCAL CODES. VERIFY CLEARANCES IN CEILING SPACE PRIOR TO INSTALLATION.

P. BEFORE SHUTTING OFF A SECTION OF THE FIRE SERVICE SYSTEM TO MAKE SPRINKLER SYSTEM CONNECTION, NOTIFY THE FIRE DEPARTMENT, PLAN THE WORK CAREFULLY, AND ASSEMBLE ALL MATERIALS TO ENABLE COMPLETION IN THE SHORTEST POSSIBLE TIME. WORK STARTED ON CONNECTIONS SHOULD BE RUSHED TO COMPLETION WITHOUT INTERRUPTION, AND PROTECTION RESTORED AS PROMPTLY AS POSSIBLE. DURING THE IMPAIRMENT, PROVIDE EMERGENCY HOSE LINES, ADDITIONAL FIRE PAILS AND EXTINGUISHERS, AND MAINTAIN WATCH SERVICE IN THE AREAS AFFECTED.

Q. WHEN CHANGES INVOLVE SHUTTING OFF WATER FROM ANY CONSIDERABLE NUMBER OF SPRINKLERS FOR MORE THAN A FEW HOURS, TEMPORARY WATER SUPPLY CONNECTIONS SHOULD BE MADE TO SPRINKLER SYSTEMS SO THAT REASONABLE PROTECTION CAN BE MAINTAINED. IN ADDING TO OLD SYSTEMS OR REVAMPING THEM, PROTECTION SHOULD BE RESTORED EACH NIGHT SO FAR AS POSSIBLE. THE FIRE DEPARTMENT SHALL BE NOTIFIED AS TO CONDITIONS.

R. IDENTIFICATION: INSTALL LABELING AND PIPE MARKERS ON EQUIPMENT AND PIPING ACCORDING TO REQUIREMENTS IN NFPA 13.

S. LEAK TEST: AFTER INSTALLATION, CHARGE SYSTEMS AND TEST FOR LEAKS. REPAIR LEAKS AND RETEST UNTIL NO LEAKS EXIST. TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING CONTROLS AND EQUIPMENT. FLUSH, TEST, AND INSPECT SPRINKLER SYSTEMS ACCORDING TO NFPA 13, "SYSTEMS ACCEPTANCE" CHAPTER. COORDINATE WITH FIRE-ALARM TESTS. OPERATE AS REQUIRED. COORDINATE WITH FIRE-PUMP TESTS. OPERATE AS REQUIRED. SPRINKLER PIPING SYSTEM WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND INSPECTIONS. PREPARE TEST AND INSPECTION REPORTS.

T. USE SPRINKLER TYPES IN SUBPARAGRAPHS BELOW FOR THE FOLLOWING APPLICATIONS:
   1. ROOMS WITHOUT CEILINGS: UPRIGHT SPRINKLERS.
   2. ROOMS WITH SUSPENDED CEILINGS: PENDENT, RECESSED, FLUSH, AND CONCEALED SPRINKLERS AS REQUIRED BY OWNER, WITH FINISH SELECTED BY ARCHITECT AND OWNER.
   3. WALL MOUNTING: SIDEWALL SPRINKLERS.

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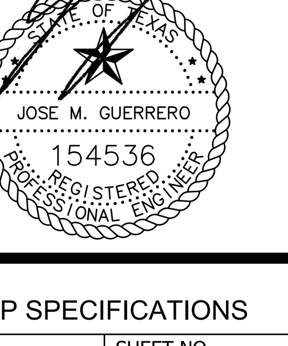
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DRAWING TITLE
MEP SPECIFICATIONS

SHEET NO.
MEP-2.00

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, THHN-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 OPENINGS THROUGH STRUCTURE MEMBERS, AS PERMITTED IN NFPA 70.

D. STRENGTH OF SUPPORT ASSEMBLIES: WHERE NOT INDICATED, SELECT SIZES OF COMPONENTS SO STRENGTH WILL BE ADEQUATE TO CARRY PRESENT AND FUTURE STATIC LOADS WITHIN SPECIFIED LOADING LIMITS. MINIMUM STATIC DESIGN LOAD USED FOR STRENGTH DETERMINATION SHALL BE 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: STEEL, FINISHED INSIDE AND OUT WITH MANUFACTURER'S STANDARD ENAMEL.
A. IN STANDARD PARTITIONS, WHERE 1/2" AND 3/4" CONDUITS ARE EMPLOYED: 4" SQUARE BY 2-1/8" DEEP BOXES WITH 1-GANG OR 2-GANG PLASTER COVERS SHALL BE USED, NO. 4SD-SPL.
B. IN THIN PARTITIONS MEASURING 3-1/2" OR LESS: 4" SQUARE BY 1-1/2" DEEP BOXES WITH 1-GANG OR 2-GANG PLASTER COVERS SHALL BE USED, NO. 4S-SPL.
C. IN STANDARD PARTITIONS, WHERE CONDUITS OF A SIZE GREATER THAN 3/4" ARE EMPLOYED: 4" SQUARE BY 2-1/8" DEEP BOXES WITH 1-GANG OR 2-GANG PLASTER COVERS SHALL BE USED, NO. 4SJD SERIES. THE OUTLET BOXES SHALL BE LOCATED WHEREBY NO TWO (2) OUTLET BOXES ARE INSTALLED CLOSER THAN 24" ON CENTER, AND SECURELY ATTACHED TO THE PARTITION STUDS, WITH AT LEAST ONE (1) PARTITION STUD SEPARATING THE OUTLET BOXES. IT IS NOT ACCEPTABLE TO SECURE OUTLET BOXES ONLY TO DRYWALL PARTITION.
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: 1/2-INCH (16-MM) TRADE SIZE.
Y. RACEWAY FITTINGS: COMPATIBLE WITH RACEWAYS AND SUITABLE FOR USE AND LOCATION.
1. RIGID AND INTERMEDIATE STEEL CONDUIT: USE THREADED RIGID STEEL CONDUIT FITTINGS, UNLESS OTHERWISE INDICATED.
2. PVC EXTERNALLY COATED, RIGID STEEL CONDUITS: USE ONLY FITTINGS LISTED FOR USE WITH THAT MATERIAL. PATCH AND SEAL ALL JOINTS, 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.
COIL MATERIAL: COPPER.

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 1598. WHERE LER IS SPECIFIED, TEST ACCORDING TO NEMA LE 5A.
3. FLUORESCENT FIXTURES: COMPLY WITH UL 1598. WHERE LER IS SPECIFIED, TEST ACCORDING TO NEMA LE 5 AND NEMA LE 5A AS APPLICABLE.
4. LED FIXTURES:
4.1. LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
4.2. EACH LUMINAIRE TYPE SHALL BE BINNED WITHIN A THREE-STEP MACADAM ELLIPSE TO ENSURE COLOR CONSISTENCY AMONG LUMINAIRES.
METAL PARTS: FREE OF BURRS AND SHARP CORNERS AND EDGES. SHEET METAL COMPONENTS: STEEL UNLESS OTHERWISE INDICATED. FORM AND SUPPORT TO PREVENT WARPING AND SAGGING. DOORS, FRAMES, AND OTHER INTERNAL ACCESS: SMOOTH OPERATING, FREE OF LIGHT LEAKAGE UNDER OPERATING CONDITIONS, AND DESIGNED TO PERMIT RELAMPING WITHOUT USE OF TOOLS. DESIGNED TO PREVENT DOORS, FRAMES, LENSES, DIFFUSERS, AND OTHER COMPONENTS FROM FALLING ACCIDENTALLY DURING RELAMPING AND WHEN SECURED IN OPERATING POSITION.
B. DIFFUSERS AND GLOBES:
1. ACRYLIC LIGHTING DIFFUSERS: 100 PERCENT VIRGIN ACRYLIC PLASTIC. HIGH RESISTANCE TO YELLOWING AND OTHER CHANGES DUE TO AGING, EXPOSURE TO HEAT, AND UV RADIATION.
2. LENS THICKNESS: AT LEAST 0.125 INCH (3.175 MM) MINIMUM UNLESS OTHERWISE INDICATED.
3. UV STABILIZED.
4. GLASS: ANNEALED CRYSTAL GLASS UNLESS OTHERWISE INDICATED.
C. FACTORY-APPLIED LABELS: COMPLY WITH UL 1598. INCLUDE RECOMMENDED LAMPS AND BALLASTS. LABELS SHALL BE LOCATED WHERE THEY WILL BE READILY VISIBLE TO SERVICE PERSONNEL, BUT NOT SEEN FROM NORMAL VIEWING ANGLES WHEN LAMPS ARE IN PLACE. LABEL SHALL INCLUDE THE FOLLOWING LAMP AND BALLAST CHARACTERISTICS:
1. "USE ONLY" AND INCLUDE SPECIFIC LAMP TYPE.
2. LAMP DIAMETER CODE (T-4, T-5, T-8, T-12, ETC.), TUBE CONFIGURATION (TWIN, QUAD, TRIPLE, ETC.), BASE TYPE, AND NOMINAL WATTAGE FOR FLUORESCENT AND COMPACT FLUORESCENT LUMINAIRES.
3. LAMP TYPE, WATTAGE, BULB TYPE (ED17, BD56, ETC.) AND COATING (CLEAR OR COATED) FOR HID LUMINAIRES.
4. START TYPE (PREHEAT, RAPID START, INSTANT START, ETC.) FOR FLUORESCENT AND COMPACT FLUORESCENT LUMINAIRES.
5. ANSI BALLAST TYPE (M98, M57, ETC.) FOR HID LUMINAIRES.
6. CCT AND CRI FOR ALL LUMINAIRES.
D. ELECTROMAGNETIC-INTERFERENCE FILTERS: FACTORY INSTALLED TO SUPPRESS CONDUCTED ELECTROMAGNETIC INTERFERENCE AS REQUIRED BY MIL-STD-461E. FABRICATE LIGHTING FIXTURES WITH ONE FILTER ON EACH BALLAST INDICATED TO REQUIRE A FILTER.

BALLASTS

A. BALLASTS FOR LINEAR FLUORESCENT LAMPS, GENERAL REQUIREMENTS FOR ELECTRONIC BALLASTS:
1. COMPLY WITH UL 935 AND WITH ANSI C82.11.
2. DESIGNED FOR TYPE AND QUANTITY OF LAMPS SERVED.
3. BALLASTS SHALL BE DESIGNED FOR FULL LIGHT OUTPUT UNLESS ANOTHER BF, DIMMER, OR BI-LEVEL CONTROL IS INDICATED.
4. SOUND RATING: CLASS A.
5. TOTAL HARMONIC DISTORTION RATING: LESS THAN 10 PERCENT.
6. TRANSIENT VOLTAGE PROTECTION: IEEE C62.41.1 AND IEEE C62.41.2, CATEGORY A OR BETTER.
7. OPERATING FREQUENCY: 42 KHZ OR HIGHER.
8. LAMP CURRENT CREST FACTOR: 1.7 OR LESS.
9. BF: 0.88 OR HIGHER.
10. POWER FACTOR: 0.95 OR HIGHER.
11. PARALLEL LAMP CIRCUITS: MULTIPLE LAMP BALLASTS SHALL COMPLY WITH ANSI C82.11 AND SHALL BE CONNECTED TO MAINTAIN FULL LIGHT OUTPUT ON SURVIVING LAMPS IF ONE OR MORE LAMPS FAIL.
B. LUMINAIRES CONTROLLED BY OCCUPANCY SENSORS SHALL HAVE PROGRAMMED-START BALLASTS.
C. ELECTRONIC PROGRAMMED-START BALLASTS FOR T8 AND T5 AND T5HO LAMPS: COMPLY WITH ANSI C82.11 AND THE FOLLOWING:
1. LAMP END-OF-LIFE DETECTION AND SHUTDOWN CIRCUIT FOR T5 DIAMETER LAMPS.
2. AUTOMATIC LAMP STARTING AFTER LAMP REPLACEMENT.
D. ELECTROMAGNETIC BALLASTS: COMPLY WITH ANSI C82.1; ENERGY SAVING, HIGH-POWER FACTOR, CLASS P, AND HAVING AUTOMATIC-RESET THERMAL PROTECTION.
E. BALLAST MANUFACTURER CERTIFICATION: INDICATED BY LABEL.
F. SINGLE BALLASTS FOR MULTIPLE LIGHTING FIXTURES: FACTORY WIRED WITH BALLAST ARRANGEMENTS AND BUNDLED EXTENSION WIRING TO SUIT FINAL INSTALLATION CONDITIONS WITHOUT MODIFICATION OR REWIRING IN THE FIELD.
G. BALLASTS FOR COMPACT FLUORESCENT LAMPS
H. DESCRIPTION: ELECTRONIC-PROGRAMMED RAPID-START TYPE, COMPLYING WITH UL 935 AND WITH ANSI C 82.11, DESIGNED FOR TYPE AND QUANTITY OF LAMPS INDICATED. BALLAST SHALL BE DESIGNED FOR FULL LIGHT OUTPUT UNLESS DIMMER OR BI-LEVEL CONTROL IS INDICATED:
1. LAMP END-OF-LIFE DETECTION AND SHUTDOWN CIRCUIT.
2. AUTOMATIC LAMP STARTING AFTER LAMP REPLACEMENT.
3. SOUND RATING: CLASS A.
4. TOTAL HARMONIC DISTORTION RATING: LESS THAN 20 PERCENT.
5. TRANSIENT VOLTAGE PROTECTION: IEEE C62.41.1 AND IEEE C62.41.2, CATEGORY A OR BETTER.
6. OPERATING FREQUENCY: 20 KHZ OR HIGHER.
7. LAMP CURRENT CREST FACTOR: 1.7 OR LESS.
8. BF: 0.95 OR HIGHER UNLESS OTHERWISE INDICATED.
9. POWER FACTOR: 0.95 OR HIGHER.
10. INTERFERENCE: COMPLY WITH 47 CFR 18, CH. 1, SUBPART C, FOR LIMITATIONS ON ELECTROMAGNETIC AND RADIO-FREQUENCY INTERFERENCE FOR NONCONSUMER EQUIPMENT.

FLUORESCENT LAMPS

A. T8 RAPID-START LAMPS, RATED 32 W MAXIMUM, NOMINAL LENGTH OF 48 INCHES (1220 MM), 2800 INITIAL LUMENS (MINIMUM), CRI 85 (MINIMUM), COLOR TEMPERATURE 3000 K, AND AVERAGE RATED LIFE 20,000 HOURS UNLESS OTHERWISE INDICATED.
B. T8 RAPID-START LAMPS, RATED 17 W MAXIMUM, NOMINAL LENGTH OF 24 INCHES (610 MM), 1300 INITIAL LUMENS (MINIMUM), CRI 85 (MINIMUM), COLOR TEMPERATURE 3000 K, AND AVERAGE RATED LIFE OF 20,000 HOURS UNLESS OTHERWISE INDICATED.
C. T5 RAPID-START LAMPS, RATED 28 W MAXIMUM, NOMINAL LENGTH OF 45.2 INCHES (1150 MM), 2900 INITIAL LUMENS (MINIMUM), CRI 85 (MINIMUM), COLOR TEMPERATURE 3000 K, AND AVERAGE RATED LIFE OF 20,000 HOURS UNLESS OTHERWISE INDICATED.
D. T5HO RAPID-START, HIGH-OUTPUT LAMPS, RATED 54 W MAXIMUM, NOMINAL LENGTH OF 45.2 INCHES (1150 MM), 5000 INITIAL LUMENS (MINIMUM), CRI 85 (MINIMUM), COLOR TEMPERATURE 4100 K, AND AVERAGE RATED LIFE OF 20,000 HOURS UNLESS OTHERWISE INDICATED.
E. COMPACT FLUORESCENT LAMPS: 4-PIN, CRI 80 (MINIMUM), COLOR TEMPERATURE 3000 K, AVERAGE RATED LIFE OF 10,000 HOURS AT THREE HOURS OPERATION PER START, AND SUITABLE FOR USE WITH DIMMING BALLASTS UNLESS OTHERWISE INDICATED.
1. 13 W: T4, DOUBLE OR TRIPLE TUBE, RATED 900 INITIAL LUMENS (MINIMUM).
2. 18 W: T4, DOUBLE OR TRIPLE TUBE, RATED 1200 INITIAL LUMENS (MINIMUM).
3. 26 W: T4, DOUBLE OR TRIPLE TUBE, RATED 1800 INITIAL LUMENS (MINIMUM).
4. 32 W: T4, TRIPLE TUBE, RATED 2400 INITIAL LUMENS (MINIMUM).
5. 42 W: T4, TRIPLE TUBE, RATED 3200 INITIAL LUMENS (MINIMUM).
6. 57 W: T4, TRIPLE TUBE, RATED 4300 INITIAL LUMENS (MINIMUM).
7. 70 W: T4, TRIPLE TUBE, RATED 5200 INITIAL LUMENS (MINIMUM).

LED LAMPS

A. MINIMUM LUMENS PER SCHEDULED FIXTURE.
B. MINIMUM ALLOWABLE EFFICACY OF 85 LM/W.
C. CRI OF MINIMUM 80. CCT PER SCHEDULED FIXTURE.
D. RATED LAMP LIFE OF 50,000 HOURS TO L70.
E. DIMMABLE FROM 100 PERCENT TO 1 PERCENT OF MAXIMUM LIGHT OUTPUT.
F. INTERNAL DRIVER.
G. USER-REPLACEABLE LAMPS:
1. BULB SHAPE COMPLYING WITH ANSI C78.79.
2. LAMP BASE COMPLYING WITH ANSI C81.61 OR IEC 60061-1.

WIRING DEVICES

A. MANUFACTURERS:
1. COOPER WIRING DEVICES;
2. HUBBELL INCORPORATED; WIRING DEVICE-KELLUMS
3. LEVITON MFG. COMPANY INC.
4. PASS & SEYMOUR/LEGRAND; WIRING DEVICES & ACCESSORIES

B. ALL WIRING DEVICES TO BE WHITE OR COLOR AS SELECTED BY ARCHITECT.

C. STRAIGHT BLADE RECEPTACLES:
CONVENIENCE RECEPTACLES, 125 V, 20 A: COMPLY WITH NEMA WD 1, NEMA WD 6 CONFIGURATION 5-20R, AND UL 498. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
1. LEVITON; 16341-W (SINGLE), 16362-W (DUPLEX).
2. ANY EQUAL BY ABOVE LISTED MANUFACTURERS.

D. ISOLATED-GROUND, DUPLEX CONVENIENCE RECEPTACLES, 125 V, 20 A: COMPLY WITH NEMA WD 1, NEMA WD 6 CONFIGURATION 5-20R, AND UL 498. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
3. LEVITON; 16362-IGW.
4. ANY EQUAL BY ABOVE LISTED MANUFACTURERS.
DESCRIPTION: STRAIGHT BLADE; EQUIPMENT GROUNDING CONTACTS SHALL BE CONNECTED ONLY TO THE GREEN GROUNDING SCREW TERMINAL OF THE DEVICE AND WITH INHERENT ELECTRICAL ISOLATION FROM MOUNTING STRAP. ISOLATION SHALL BE INTEGRAL TO RECEPTACLE CONSTRUCTION AND NOT DEPENDENT ON REMOVABLE PARTS.

E. GFCI RECEPTACLES
GENERAL DESCRIPTION: STRAIGHT BLADE, FEED-THROUGH TYPE. COMPLY WITH NEMA WD 1, NEMA WD 6, UL 498, AND UL 943, CLASS A, AND INCLUDE INDICATOR LIGHT THAT IS LIGHTED WHEN DEVICE IS TRIPPED. DUPLEX GFCI CONVENIENCE RECEPTACLES, 125 V, 20 A: PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
1. LEVITON: 7899-W.
2. ANY EQUAL BY ABOVE LISTED MANUFACTURERS.

F. SNAP SWITCHES, COMPLY WITH NEMA WD 1 AND UL 20. SWITCHES, 120/277 V, 20 A:
PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:.
1. LEVITON; 5621-2W (SINGLE POLE), 5622-2 (TWO POLE), 5623-2 (THREE WAY)
2. ANY EQUAL BY ABOVE LISTED MANUFACTURERS.

G. WALL-BOX DIMMERS, DIMMER SWITCHES: MODULAR, FULL-WAVE, SOLID-STATE UNITS WITH INTEGRAL, QUIET ON-OFF SWITCHES, WITH AUDIBLE FREQUENCY AND EMI/RFI SUPPRESSION FILTERS. CONTROL: CONTINUOUSLY ADJUSTABLE SLIDER; WITH SINGLE-POLE OR THREE-WAY SWITCHING. COMPLY WITH UL 1472.
1. INCANDESCENT LAMP DIMMERS: 120 V; CONTROL SHALL FOLLOW SQUARE-LAW DIMMING CURVE. ON-OFF SWITCH POSITIONS SHALL BYPASS DIMMER MODULE. 2000 W; DIMMERS SHALL REQUIRE NO DERATING WHEN GANGED WITH OTHER DEVICES.
2. FLUORESCENT LAMP DIMMER SWITCHES: MODULAR; COMPATIBLE WITH DIMMER BALLASTS; TRIM POTENTIOMETER TO ADJUST LOW-END DIMMING; DIMMER-BALLAST COMBINATION CAPABLE OF CONSISTENT DIMMING WITH LOW END NOT GREATER THAN 20 PERCENT OF FULL BRIGHTNESS.
3. ACCEPTABLE MANUFACTURERS: LUTRON, LEVITON.

H. VACANCY/OCCUPANCY SENSORS, WALL-SWITCH SENSORS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:
1. LUTRON; MS-B102. (PROGRAMMED FOR VACANCY OR OCCUPANCY OPERATION AS SHOWN)
2. ANY EQUAL BY NOVITAS, WATTSTOPPER, LEVITON OR SENSOR SWITCH.
DESCRIPTION: DUAL TECHNOLOGY TYPE, 120/277 V, ADJUSTABLE TIME DELAY UP TO 20 MINUTES, 180-DEGREE FIELD OF VIEW, WITH A MINIMUM COVERAGE AREA OF 900 SQ. FT. (81 SQ. M). MANUAL-ON/AUTO-OFF OR AUTO-ON TO 50%/AUTO-OFF.

I. WALL PLATES, SINGLE AND COMBINATION TYPES TO MATCH CORRESPONDING WIRING DEVICES.
PLATE-SECURING SCREWS: METAL WITH HEAD COLOR TO MATCH PLATE FINISH.
1. MATERIAL FOR FINISHED SPACES: SMOOTH, HIGH-IMPACT THERMOPLASTIC 0.035-INCH-(1-MM-) THICK.
2. MATERIAL FOR UNFINISHED SPACES: SMOOTH, HIGH-IMPACT THERMOPLASTIC.
3. MATERIAL FOR DAMP LOCATIONS: THERMOPLASTIC WITH SPRING-LOADED LIFT COVER, AND LISTED AND LABELED FOR USE IN "WET LOCATIONS."
4. WET-LOCATION, WEATHERPROOF COVER PLATES: NEMA 250, COMPLYING WITH TYPE 3R WEATHER-RESISTANT, THERMOPLASTIC WITH LOCKABLE COVER.

DEVICE MOUNTING HEIGHTS

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

WALL SWITCHES	48 INCHES
ELECTRICAL, VOICE/DATA OUTLETS	18 INCHES
CLOCK OUTLETS	90 INCHES
RECEPTACLES (MOUNTED ABOVE A COUNTER)	42 INCHES
FIRE ALARM PULL STATIONS	42 INCHES
FIRE ALARM SYSTEM AUDIO/VISUAL STROBES	80 INCHES
FIRE ALARM SYSTEM VISUAL STROBES	80 INCHES
WALL MOUNTED TELEPHONE	42 INCHES

FIRE PROTECTION

FIRE ALARM

A. DO NOT INTERRUPT FIRE-ALARM SERVICE TO FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY GUARD SERVICE ACCORDING TO REQUIREMENTS INDICATED:

B. NOTIFY ARCHITECT AND OWNER NO FEWER THAN TWO DAYS IN ADVANCE OF PROPOSED INTERRUPTION OF FIRE-ALARM SERVICE. DO NOT PROCEED WITH INTERRUPTION OF FIRE-ALARM SERVICE WITHOUT ARCHITECT'S AND OWNER'S WRITTEN PERMISSION.

C. MAINTAIN EXISTING EQUIPMENT FULLY OPERATIONAL UNTIL NEW EQUIPMENT HAS BEEN TESTED AND ACCEPTED. AS NEW EQUIPMENT IS INSTALLED, LABEL IT "NOT IN SERVICE" UNTIL IT IS ACCEPTED. REMOVE LABELS FROM NEW EQUIPMENT WHEN PUT INTO SERVICE AND LABEL EXISTING FIRE-ALARM EQUIPMENT "NOT IN SERVICE" UNTIL REMOVED FROM THE BUILDING.

D. AFTER ACCEPTANCE OF NEW FIRE-ALARM SYSTEM, REMOVE EXISTING DISCONNECTED FIRE-ALARM EQUIPMENT AND WIRING.

E. COMPLY WITH NFPA 72 FOR INSTALLATION OF FIRE-ALARM EQUIPMENT.

F. VERIFY THAT EXISTING FIRE-ALARM SYSTEM IS OPERATIONAL BEFORE MAKING CHANGES OR CONNECTIONS. CONNECT NEW EQUIPMENT TO EXISTING CONTROL PANEL IN EXISTING PART OF THE BUILDING. CONNECT NEW EQUIPMENT TO EXISTING MONITORING EQUIPMENT AT THE SUPERVISING STATION. EXPAND, MODIFY, AND SUPPLEMENT EXISTING CONTROL AND MONITORING EQUIPMENT AS NECESSARY TO EXTEND EXISTING CONTROL AND MONITORING FUNCTIONS TO THE NEW POINTS. NEW COMPONENTS SHALL BE CAPABLE OF MERGING WITH EXISTING CONFIGURATION WITHOUT DEGRADING THE PERFORMANCE OF EITHER SYSTEM.

G. COMPLY WITH NFPA 72, "SMOKE-SENSING FIRE DETECTORS" SECTION IN THE "INITIATING DEVICES" CHAPTER, FOR SMOKE-DETECTOR SPACING. COMPLY WITH NFPA 72, "HEAT-SENSING FIRE DETECTORS" SECTION IN THE "INITIATING DEVICES" CHAPTER, FOR HEAT-DETECTOR SPACING. SMOOTH CEILING SPACING SHALL NOT EXCEED 30 FEET (9 M). SPACING OF DETECTORS FOR IRREGULAR AREAS, FOR IRREGULAR CEILING CONSTRUCTION, AND FOR HIGH CEILING AREAS SHALL BE DETERMINED ACCORDING TO APPENDIX A OR APPENDIX B IN NFPA 72.

H. LOCATE DETECTORS NOT CLOSER THAN 3 FEET (1 M) FROM AIR-SUPPLY DIFFUSER OR RETURN-AIR OPENING.

I. LIGHTING FIXTURES: LOCATE DETECTORS NOT CLOSER THAN 12 INCHES (300 MM) FROM ANY PART OF A LIGHTING FIXTURE.

J. DUCT SMOKE DETECTORS: COMPLY WITH NFPA 72 AND NFPA 90A. INSTALL SAMPLING TUBES SO THEY EXTEND THE FULL WIDTH OF DUCT.

K. REMOTE STATUS AND ALARM INDICATORS: INSTALL NEAR EACH SMOKE DETECTOR AND EACH SPRINKLER WATER-FLOW SWITCH AND VALVE-TAMPER SWITCH THAT IS NOT READILY VISIBLE FROM NORMAL VIEWING POSITION.

L. AUDIBLE ALARM-INDICATING DEVICES: INSTALL NOT LESS THAN 6 INCHES (150 MM) BELOW THE CEILING. INSTALL BELLS AND HORNS ON FLUSH-MOUNTED BACK BOXES WITH THE DEVICE-OPERATING MECHANISM CONCEALED BEHIND A GRILLE.

M. VISIBLE ALARM-INDICATING DEVICES: INSTALL ADJACENT TO EACH ALARM BELL OR ALARM HORN AND AT LEAST 6 INCHES (150 MM) BELOW THE CEILING.

N. PROVIDE FIELD TESTING AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION.

O. VISUAL ALARMS SHALL BE PROVIDED IN EACH OF THE FOLLOWING AREAS: RESTROOMS AND ANY OTHER GENERAL USE AREAS, MEETING ROOMS, HALLWAYS, LOBBIES, AND ANY OTHER AREA OF COMMON USAGE.

P. AUDIBLE ALARMS SHALL PRODUCE A SOUND THAT EXCEEDS THE AMBIENT SOUND LEVEL IN A ROOM OR SPACE BY AT LEAST 15 DBA OR EXCEEDS ANY MAXIMUM SOUND LEVEL WITH A DURATION OF 60 SECONDS BY 5 DBA, WHICHEVER IS LOUDER. SOUND LEVELS FOR ALARM SIGNALS SHALL NOT EXCEED 110 DBA.

Q. VISUAL ALARM SIGNAL APPLIANCES SHALL BE INTEGRATED INTO THE BUILDING OR FACILITY ALARM SYSTEM. IF SINGLE STATION AUDIBLE ALARMS ARE PROVIDED THEN SINGLE STATION VISUAL SIGNALS SHALL BE PROVIDED.

R. VISUAL ALARMS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
1. THE LAMP SHALL BE A XENON STROBE TYPE OR EQUIVALENT.
2. THE COLOR SHALL BE CLEAR OR WHITE.
3. MAXIMUM PULSE DURATION SHALL BE 0.2 SECONDS WITH MAXIMUM DUTY CYCLE OF 40%.
4. INTENSITY SHALL BE A MINIMUM OF 75 CANDELA.
5. FLASH RATE SHALL BE A MINIMUM OF 1 HZ AND A MAXIMUM OF 3 HZ.
6. THE APPLIANCE SHALL BE PLACED 80" ABOVE THE HIGHEST FLOOR LEVEL WITHIN THE SPACE OR 6" BELOW THE CEILING, WHICHEVER IS LOWER.
7. IN GENERAL, NO PLACE IN ANY ROOM OR SPACE SHALL BE MORE THAN 50' FROM THE SIGNAL. IN LARGE ROOMS OR SPACES EXCEEDING 100' ACROSS, WITHOUT OBSTRUCTIONS 6' ABOVE THE FLOOR, SUCH AS AUDITORIUMS, DEVICES MAY BE PLACED AROUND THE PERIMETER, SPACED A MAXIMUM 100' APART, IN LIEU OF SUSPENDING APPLIANCES FROM THE CEILING.
8. NO PLACE IN COMMON CORRIDORS OR HALLWAYS SHALL BE MORE THAN 50' FROM THE SIGNAL. SIGNALS SHALL NOT BE GREATER THAN 15' FROM THE END OF A CORRIDOR OR HALLWAY.

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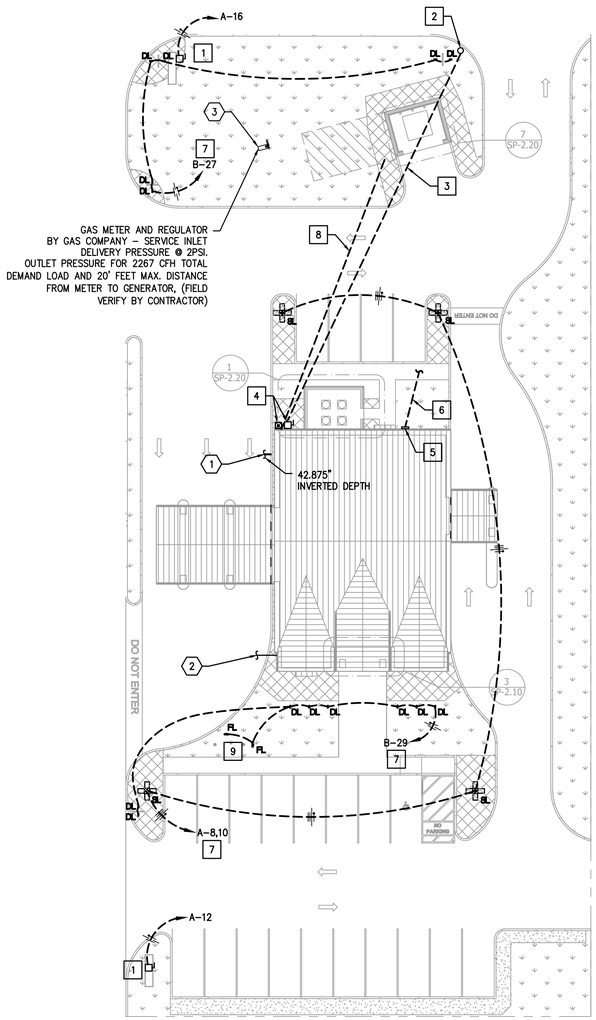
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STATE OF TEXAS
JOSE M. GUERRERO
154536
REGISTERED PROFESSIONAL ENGINEER

DRAWING TITLE
MEP SPECIFICATIONS

SHEET NO.
MEP-3.00



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

ELECTRICAL POWER KEYED NOTES:

1. PROVIDE 30A/120V/1P/N3R DISCONNECT FOR MONUMENT SIGN. COORDINATE WITH ARCHITECT AND SIGN MANUFACTURER FOR LOCATION AND ELECTRICAL REQUIREMENTS.
2. NEW POLE MOUNTED TRANSFORMERS PER UTILITY COMPANY STANDARDS.
3. NEW UNDERGROUND POWER LINES.
4. NEW METER AND C.T. CAN PER UTILITY COMPANY STANDARDS. REFER TO RISER DIAGRAM FOR MORE INFORMATION.
5. NEW BUILDING TELEPHONE/CABLE-TV CABINET. COORDINATE EXACT REQUIREMENTS WITH TELEPHONE/CABLE-TV COMPANY SERVING AREA PRIOR TO COMMENCEMENT OF WORK.
6. PROVIDE (2) 4" AND (1)3" RIGID PVC EMPTY CONDUITS WITH PULLSTRINGS FOR TELEPHONE AND CABLE-TV SERVICES FROM BUILDING TELEPHONE/CABLE-TV CABINET TO CLOSEST SERVICE DEMARCATION POINT/PEDESTAL.COORDINATE WITH CIVIL DRAWINGS AND TELEPHONE/CABLE-TV COMPANY SERVING THE AREA FOR EXACT LOCATION AND CONDUIT TERMINATIONS.
7. LIGHTING CIRCUIT CONTROLLED BY PHOTOCELL.
8. PROVIDE (2) 2" CONDUITS AND (4) 3/4" CONDUITS WITH PULL STRING FOR FUTURE GENERATOR POWER, CONTROL AND COMMUNICATION. COORDINATE ADDITIONAL REQUIREMENTS. CAP AND TAG WITH VENDOR.
9. PROVIDE POWER FOR FLAGPOLE LIGHTING. VERIFY LOCATION PRIOR TO INSTALLATION. REFER TO LIGHTING CONTROL NOTES.

PLUMBING KEYED NOTES:

1. NEW ENTERING 4"ø SANITARY WASTE. REFER TO CIVIL SHEET FOR CONTINUATION.
2. NEW ENTERING 1-1/4"ø DOMESTIC WATER SERVICE ENTRY. REFER TO DETAILS. REFER TO CIVIL SHEET FOR CONTINUATION.
3. PROVIDE NEW NATURAL GAS METER AND REGULATOR FOR GENERATOR. PROVIDE BOLLARD PROTECTION AS REQUIRED. SEE RISERS

N

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JOSE M. GUERRERO
154536
LICENSED
PROFESSIONAL ENGINEER
09/11/2026

DRAWING TITLE
MEP SITE PLAN

SHEET NO.
MEP-4.00

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. 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.
3. 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.
4. PROVIDE ALL NECESSARY TEMPORARY OR PERMANENT CAPS OR PLUGS FOR PIPING. DO NOT LEAVE PIPING OPEN ENDED.
5. WHERE USED, THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".
6. THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH THE LANDLORD AND ALL OTHER TRADES PRIOR TO FABRICATION, PURCHASE AND/OR INSTALLATION OF ALL WORK.
7. 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.
8. ALL WORK SHALL CONFORM TO ALL STATE AND LOCAL CODES, RULES AND REGULATIONS AND ORDINANCES.
9. CONTRACTOR SHALL SECURE AND PAY ALL FEES AND PERMITS PERTAINING TO THE CONTRACT.
10. 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.
11. 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.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RIGGING, HANDLING AND PROTECTION OF MATERIALS.
13. CONTRACTOR SHALL PROVIDE LABOR TO RECEIVE, UNLOAD, STORE, PROTECT AND TRANSFER TO POINT OF INSTALLATION, OWNER FURNISHED ITEMS.
14. 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.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING AS IT RELATES TO HIS WORK.
16. CONTRACTOR SHALL REFER TO BUILDING MANAGEMENT'S RULES AND REGULATIONS' TO COMPLY WITH BUILDING STANDARDS.
17. 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.
18. 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.
19. REFER TO DRAWING MEP FOR SPECIFICATIONS THAT APPLY TO THIS SHEET.
20. 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.
21. 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.

SPLIT DX SYSTEM SCHEDULE

MARK	AHU-1	AHU-2	AHU-3	AHU-4
SERVES	SPACE	SPACE	SPACE	IT
TOTAL CFM	1200	1200	975	435
OUTSIDE AIR (CFM)	150	150	100	NA
EXT. SP. (IN. WG)	1.0	1.0	1.0	0.3
AMBIENT TEMP. (DEG F)	105	105	105	105
EAT DB / WB	76.63/64.44	75.38/64.1	76.16/63.96	75/62.5
LAT DB / WB	55/53.96	55/53.96	55/53.83	55/54
SENSIBLE COOLING (BTUH)	28.4K	26.7K	22.4K	9K
TOTAL COOLING (BTUH)	37.5K	36K	29.4K	10.9K
HEATING (BTUH)	34K	34K	26K	–
HEATING COIL (KW)	10	10	7.2	–
HORSEPOWER (WATT&BHP)	153.7	153.7	92.5	–
VOLTS/PH/HZ	208/1/60	208/1/60	208/1/60	–
MCA/MOCP	70/70	70/70	47/50	–
MANUFACTURER	RUUD	RUUD	RUUD	DAIKIN
MODEL NO.	RA14	RA14	RA14	FTK12A
WEIGHT (LBS)	139	139	96	22
CONDENSING UNIT				
MARK	CU-1	CU-2	CU-3	CU-4
VOLTS/PH/HZ	208/3/60	208/3/60	208/3/60	208/1/60
MCA/MOCP	20/25	20/25	14.4/20	7.8/15
SEER2/EER2	9/14.3	9/14.3	9/14.3	19/--
MANUFACTURER	RUUD	RUUD	RUUD	DAIKIN
MODEL NO.	RH2TY	RH2TY	RH2TY	RK12A
WEIGHT (LBS)	252	252	186	62
NOTES	1–13	1–13	1–13	1–13

NOTES:
1. REFRIGERANT TYPE IS R-454B.
2. COORDINATE WITH ELECTRICAL DRAWINGS FOR DISCONNECT AND ADDITIONAL ELECTRICAL REQUIREMENTS.
3. PROVIDE IECC COMPLIANT PROGRAMMABLE THERMOSTAT FOR AHU. T-STAT SHALL BE CALIBRATED TO DISPLAY SPACE TEMPERATURE AT +/- 1°F.
4. PROVIDE REQUIRED MAINTENANCE ACCESS PER MANUFACTURER FOR AHU IN PLENUM SPACE.
5. PROVIDE SUPPLY FAN WITH PREMIUM EFFICIENCY, ECM, VARIABLE-SPEED MOTOR.
6. PROVIDE STAINLESS STEEL DRAIN PAN.
7. PROVIDE OPTIONAL CONDENSATE PUMP.
8. PROVIDE PRIMARY AND AUXILIARY DRAIN LINES FROM UNIT TO NEAREST FUNNEL DRAIN. SUPPORT PIPE FOR 1/8" PER FOOT SLOPE TO DRAIN.
9. ALL WORK SHALL COMPLY WITH BUILDING MANAGEMENT'S CONTRACTOR RULES AND REGULATIONS.
10. PROVIDE MOTORIZED DAMPER FOR OUTSIDE AIR INTAKE. DAMPER SHALL CLOSE WHEN UNIT IS DE-ENERGIZED.
11. PROVIDE ALL REFRIGERANT LINE ACCESSORIES AND SIZES PER MANUFACTURER.
12. PROVIDE A FACTORY-INSTALLED FLOAT SWITCH TO SHUTDOWN THE UNIT UPON HIGH WATER CONDITION.
13. PROVIDE CONDENSING UNIT ON THE GRADE.
14. ALTERNATE MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY MEET THE PERFORMANCE AND SPECIFICATIONS.

AIR DEVICE SCHEDULE

MARK	MANUF. + MODEL	TYPE	REMARKS
	TITUS OMNI	CEILING SUPPLY	24X24 PLAQUE FACE SUPPLY AIR DIFFUSER. FACE SHALL BE STEEL WITH A STEEL BACK PAN. FACE AND FRAME SHALL HAVE A WHITE ENAMEL FINISH. COORDINATE CEILING MOUNTING TYPE WITH ARCHITECTURAL CEILING TYPE. PROVIDE REMOTE DAMPER OPERATORS IN AREAS WITH INACCESSIBLE CEILINGS. 4-WAY THROW UNLESS OTHERWISE NOTED ON FLOOR PLANS. PROVIDE DIRECTIONAL BLOW CLIPS FOR DIFFUSERS DESIGNATED AS DIRECTIONAL.
	TITUS OMNI	CEILING RETURN /EXHAUST	24X24 PLAQUE FACE DIFFUSER. DIFFUSER TO HAVE 15" NECK OPEN TO THE PLENUM TO ACT AS A RETURN. COORDINATE CEILING MOUNTING TYPE WITH ARCHITECTURAL CEILING TYPE.
	TITUS 300RS	SIDEWALL SUPPLY	STEEL SIDEWALL SUPPLY REGISTER. DOUBLE-DEFLECTION, ADJUSTABLE BLADES AT 3/4" ON CENTER WITH FRONT BLADES PARALLEL TO THE SHORT DIMENSION. NECK SIZE AS INDICATED ON FLOOR PLANS. PROVIDE OPPOSED-BLADE DAMPER. COORDINATE MOUNTING TYPE WITH ARCHITECTURAL CEILING TYPE. COORDINATE FINISH WITH ARCHITECT.
	TITUS 350ZRL OR EQUAL	SIDEWALL RETURN	SIZE INDICATED ON THE PLAN WITH 3/4" SPACING FACE. FACE SHALL BE ALUMINUM. 35° DEFLECTION. BLADES SHOULD BE ANGLED UPWARDS. COORDINATE AND VERIFY THE STYLE AND COLOR WITH ARCHITECT PRIOR TO ORDER.

TOILET EXHAUST SYSTEM ANALYSIS:

TOILET ROOM SHALL BE EXHAUSTED AT A MINIMUM 50 CFM/FIXTURE IN ACCORDANCE WITH THE CURRENT IMC.

(WOMEN) 1 FIXTURE =		50 CFM
(MEN) 1 FIXTURE =		50 CFM
JANITOR =	35 SQ.FT. X 1 CFM/SQFT	35 CFM
	TOTAL CFM REQUIRED	135 CFM
	TOTAL CFM EXHAUSTED	345 CFM

EXHAUST FAN SCHEDULE

MARK	EF-(1-3)	EF-4	–	–
SERVES	RESTROOMS	ATM	–	–
CFM	75	120	–	–
TYPE/DRIVE	CEILING/DIRECT	CEILING/DIRECT	–	–
S.P. IN. WG.	.35	.35	–	–
WATTS	20	24	–	–
RPM	1100	739	–	–
VOLTS/PHASE/HERTZ	120/1/60	120/1/60	–	–
MANUFACTURER	GREENHECK	GREENHECK	–	–
SERIES NO.	SP-A125	CSP-A250	–	–
NOTES	ALL	ALL	–	–

NOTES:
1. INTERLOCK FAN ON/OFF OPERATION WITH THE MOTION SENSOR SWITCH TO OPERATE WHEN SWITCH IS TURNED ON.
2. PROVIDE FAN WITH BACKDRAFT DAMPER, DISCONNECT SWITCH.
3. ALL FAN ONLY RUN INTERMITTENTLY.
4. BALANCE TO SCHEDULED CFM.
5. EF-3: CONNECT THE EXHAUST FAN TO THE SPACE THERMOSTAT. THE FAN SHALL BE ENERGIZED WHEN THE SPACE TEMPERATURE EXCEEDS 78F (ADJUSTABLE SETPOINT).
6. ALTERNATE MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY MEET THE PERFORMANCE AND SPECIFICATIONS.

OUTSIDE AIR ANALYSIS

OUTSIDE AIR SHALL BE PROVIDED IN ACCORDANCE WITH CURRENT IMC:

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

OFFICES: (5 CFM/PER x 17 PPL) + (0.06 CFM/SQ. FT x 2150 SQ. FT) = 214 CFM
CORRIDOR/ULTILITIES: (– x –) + (0.06CFM/SQ. FT x 432 SQ. FT) = 26 CFM

OVERALL: Vbz / Ez = Voz
240 CFM / 1 = 240 CFM

TOTAL OUTSIDE AIR REQUIRED = 240 CFM

AHU-(1-2): 150 CFM AHU-3: 100 CFM

TOTAL OUTSIDE AIR PROVIDED BY BUILDING = 400 CFM

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.

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

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REVISIONS

MARK	DESCRIPTION	DATE
	70% REVIEW SET	07/29/26
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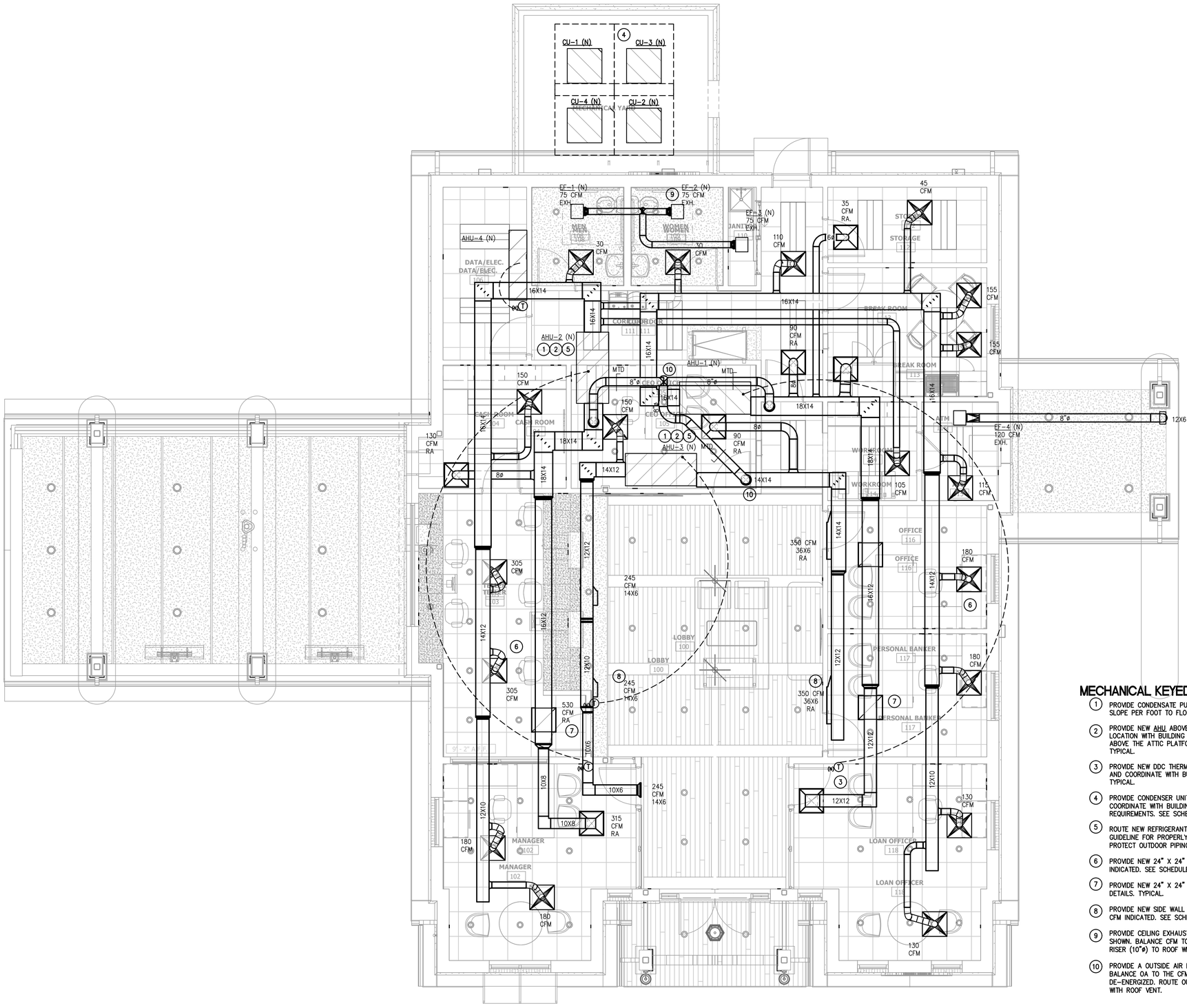
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STATE OF TEXAS
JOSE M. GUERRERO
154536
REGISTERED PROFESSIONAL ENGINEER

DRAWING TITLE
MECHANICAL INFORMATION

SHEET NO.
M-0.10

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



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

MECHANICAL KEYED NOTES:

1. PROVIDE CONDENSATE PUMP AND ROUTE PUMPED 3/4" CONDENSATE DRAIN LINE AT 1/8" SLOPE PER FOOT TO FLOOR DRAIN IN THE MOPSINK. TYPICAL.
2. PROVIDE NEW AHU ABOVE ACCESSIBLE CEILING. FIELD VERIFY AND COORDINATE EXACT LOCATION WITH BUILDING ENGINEER AND EXISTING CONSTRAINTS. UNIT WILL BE INSTALLED ABOVE THE ATTIC PLATFORM, COORDINATE WITH ARCH DRAWINGS FOR MORE INFORMATION. TYPICAL.
3. PROVIDE NEW DDC THERMOSTAT AT LOCATION INDICATED. CONTRACTOR TO FIELD VERIFY AND COORDINATE WITH BUILDING ENGINEER FOR EXACT THERMOSTAT AND LOCATION. TYPICAL.
4. PROVIDE CONDENSER UNIT (CU) ON THE SLAB ON THE GROUND AT LOCATION SHOWN. COORDINATE WITH BUILDING ENGINEER AND ARCHITECT FOR EXACT LOCATION AND OTHER REQUIREMENTS. SEE SCHEDULE AND DETAILS. TYPICAL.
5. ROUTE NEW REFRIGERANT PIPING THROUGH WALL WITH A JACK. FOLLOW MANUFACTURER GUIDELINE FOR PROPERLY SIZING REFRIGERANT PIPES. PROTECT PIPING WITH 1" INSULATION. PROTECT OUTDOOR PIPING WITH ALUMINUM JACKET. TYPICAL.
6. PROVIDE NEW 24" X 24" SUPPLY AIR DEVICE AT LOCATION INDICATED. BALANCE TO CFM INDICATED. SEE SCHEDULE AND DETAILS. TYPICAL.
7. PROVIDE NEW 24" X 24" RETURN AIR GRILLE AT LOCATION INDICATED. SEE SCHEDULE AND DETAILS. TYPICAL.
8. PROVIDE NEW SIDE WALL SUPPLY/RETURN DEVICES AT LOCATION INDICATED. BALANCE TO CFM INDICATED. SEE SCHEDULE AND DETAILS. TYPICAL.
9. PROVIDE CEILING EXHAUST FAN (EF) AT LOCATION INDICATED WITH THE DUCT SIZE AS SHOWN. BALANCE CFM TO INDICATED. ROUTE EXHAUST DUCT TO THE COMMON EXHAUST RISER (10"ø) TO ROOF WITH EXHAUST VENT.
10. PROVIDE A OUTSIDE AIR DUCTWORK WITH THE MOTORIZED DAMPER (MTD) FOR OA INTAKE. BALANCE OA TO THE CFM INDICATED ON PLAN. MTD WILL CLOSE WHEN THE FCU IS DE-ENERGIZED. ROUTE OUTSIDE AIR DUCT TO THE COMMON EXHAUST RISER (12"ø) TO ROOF WITH ROOF VENT.

N

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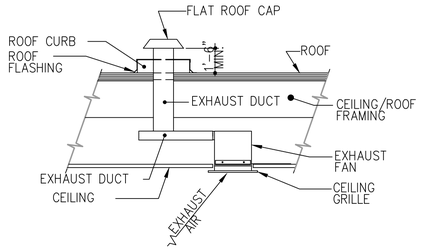
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STATE OF TEXAS
JOSE M. GUERRERO
154536
REGISTERED PROFESSIONAL ENGINEER

09/11/2026

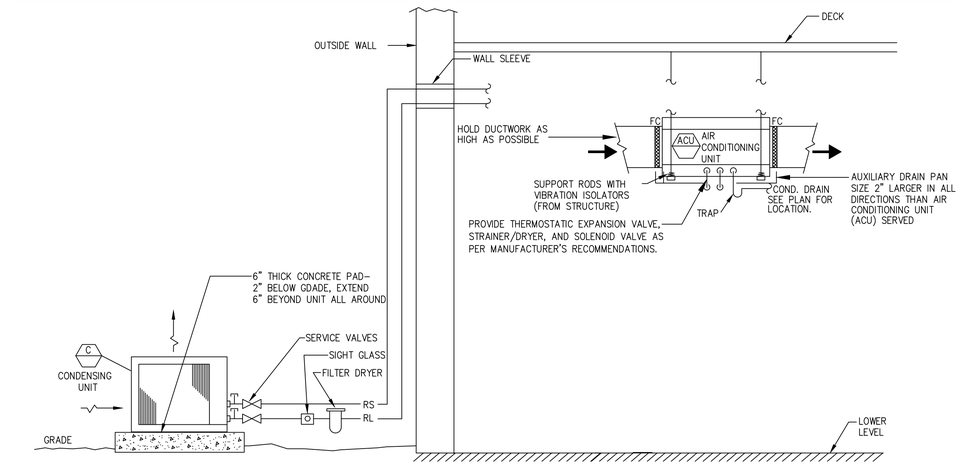
DRAWING TITLE
MECHANICAL PLAN

SHEET NO.
M-1.10



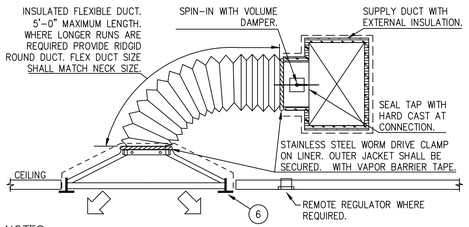
CEILING EXHAUST FAN 02

SCALE: NONE



A/C SYSTEM W/ HORZ. AIR HANDLING + CONDENSING MOUNTED AT GROUND . TYPICAL. 01

SCALE: NONE

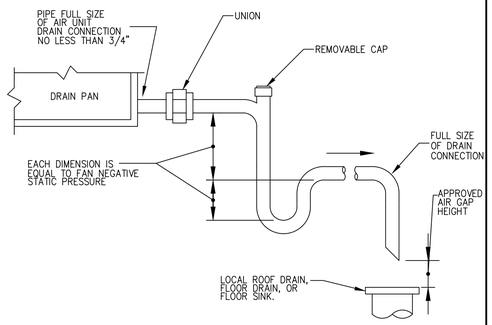


NOTES:

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 04

SCALE: NONE

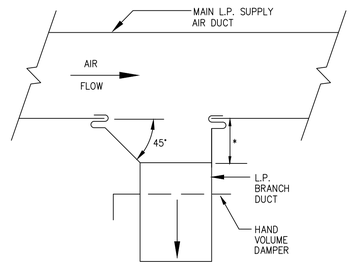


NOTE:

1. LOCATE TRAPS SA AS TO BE ACCESSIBLE FOR CLEANING.
2. TO DETERMINE OFFSET, SUBTRACT SCHEDULED E.S.P. FROM T.S.P. THEN ADD 1".
3. ROUTE TO NEAREST SANITARY DRAIN.

CONDENSATE DRAIN 03

SCALE: NONE



*-EQUALS WIDTH OF BRANCH DUCT UP TO 12". 12" FOR ALL BRANCH DUCTS LARGER THAN 12".

TYP. LOW PRESSURE DUCT TAKE-OFF 05

SCALE: NONE

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DRAWING TITLE

MECHANICAL DETAILS

SHEET NO.

M-2.10

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

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. EGRESS AND EXIT LIGHT FIXTURES SHALL BE CONNECTED TO UNSWITCHED HOT CONDUCTOR WITH 2#10,1/2"C.
7. ALL LIGHTING FIXTURES, LAMPS AND EXIT SIGNS SHALL MATCH BANK STANDARD UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL REFER TO BUILDING MANAGEMENT'S "RULES AND REGULATIONS" TO COMPLY WITH BUILDING STANDARDS.
9. LIGHTING FIXTURES SHALL BE PROTECTED TO COMPLY WITH THE BUILDING FLOOR/CEILING FIRE RATED ASSEMBLY.
10. FOR RETURN AIR PLENUMS, ALL MATERIALS LOCATED WITHIN A RETURN AIR PLENUM SHALL BE RATED AND APPROVED FOR INSTALLATION IN A RETURN AIR PLENUM.

FINAL FIRE ALARM PLANS WILL BE PREPARED AND SUBMITTED FOR PERMIT REVIEW AND APPROVAL UPON THE SELECTION OF THE FIRE ALARM SUBCONTRACTOR FOR THE PROJECT. SUBCONTRACTOR SHALL PROVIDE PRICING FOR A FULL AND COMPLETE SYSTEM. INCLUDE COSTS FOR ADDITIONAL DEVICES IF THE SUBCONTRACTOR DEEMS IT NECESSARY. GC SHALL ENSURE THAT ALL COSTS FOR ROUGH-IN OF DEVICES IS COORDINATED BETWEEN TRADES AND ACCOUNTED FOR IN THE BID.

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.

ELECTRICAL LIGHTING CONTROL NOTES:

1. PARTIAL INTERIOR LIGHTS CONTROLLED BY MOTION SENSORS AS SHOWN, U.O.N..
2. TIMECLOCK TO BE INTERMATIC ET2845C SERIES WITH FOUR INDEPENDENT OUTPUTS AND HOLIDAY FUNCTION.
   TIME CLOCK FEATURES:
   A. 365-DAY PROGRAMMABLE CLOCK WITH 48 ON/48 OFF FEATURES.
   B. AUTOMATIC DAYLIGHT SAVING TIME (DST) ON/OFF ADJUSTMENT.
   C. NON-VOLATILE EEPROM MEMORY FOR LIFETIME PROGRAMMING PROTECTION.
   D. 100-HOUR SUPERCAPACITOR ELIMINATES BATTERY DEPENDENCY.
   E. 50 HOLIDAY BLOCKS WITH SCHEDULES.
3. PROVIDE INTERMATIC MODEL #EI235W 2-HOUR ELECTRONIC COUNTDOWN TIMER SWITCH IN PARALLEL CONNECTION FOR OVERRIDE WHERE NOTED.
4. PROVIDE CONTACTORS AS NEEDED.
5. CIRCUITS TO BE CONTROLLED BY TIMECLOCK OUTPUT WITH 2-HOUR TIMED OVERRIDE SWITCH:
   A-4
4. CIRCUITS TO BE CONTROLLED BY TIMECLOCK OUTPUT:
   A-12, A-16, A-36
5. CIRCUITS TO BE CONTROLLED BY PHOTOCELL RECEPTORS:
   A-6, A-8,10, B-27, B-29.

LEGEND OF ELECTRICAL SYMBOLS

SYMBOL	DESCRIPTION
	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, "T" 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.
	HATCHED LINES INDICATES FIXTURE CONNECTED TO BUILDING EMERGENCY CIRCUIT.
A	2'x4' FLUORESCENT FIXTURE. LETTER INDICATES FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS.
A	2'x2' FLUORESCENT FIXTURE. LETTER INDICATES FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS.
A	UNDERCABINET FIXTURE. LETTER INDICATES FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS.
A	DOWNLIGHT FIXTURE. LETTER INDICATES FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS.
A	WALL WASHER FIXTURE. LETTER INDICATES FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR SPECIFICATIONS.
	EXIT LIGHT. PROVIDE ARROWS AS INDICATED ON DRAWINGS.
	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.
GFI	DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT INTERRUPTER; 20 AMP, 125V., 3 WIRE GROUNDED TYPE.
S D	FLUSH MOUNTED FLOOR OUTLET W/ RECEPTACLE (S) AND OR DATA AND, OR TELEPHONE.
	COMBINATION TELEPHONE / DATA OUTLET.
	TELEPHONE OUTLET.
	DATA OUTLET
TTB	TELEPHONE TERMINAL BOARD, 4'x8'x3/4" PLYWOOD.
$	SINGLE POLE, SINGLE-THROW SWITCH; 20 AMP, 120/277V.
3 $	3-WAY SWITCH: 20 AMP, 120/277V.
OS $	OCCUPANCY SENSOR SWITCH. LUTRON MS-B102, U.N.O.
VS $	VACANCY SENSOR SWITCH. LUTRON MS-B102, U.N.O.
	DIMMER SWITCH. LUTRON MAESTRO SERIES.
	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.
1C	WALL MOUNTED OCCUPANCY SENSING	MS-B102 (DUAL-TECHNOLOGY WALL OCCUPANCY SENSOR)	LIGHT FIXTURES IN THIS ROOM ARE TO BE AUTO-ON/ AUTO-OFF CONTROLLED BY THE WALL MOUNTED OCCUPANCY 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.
3	WALL MOUNTED VACANCY SENSING WITH DIMMING	MRF2S-8SD010 (PIR WALL VACANCY SENSOR WITH 0-10V DIMMING)	LIGHT FIXTURES IN THIS ROOM ARE TO BE MANUAL-ON/ AUTO-OFF CONTROLLED BY THE WALL MOUNTED VACANCY SENSOR SWITCH WITH DIMMING CAPABILITIES.
4B	CEILING MOUNTED VACANCY SENSING WITH DIMMING	PJ2-2BRL-GXX-L01 (WIRELESS REMOTE SWITCH WITH DIMMING) LRF2-OCR2B-P (WIRELESS CEILING VACANCY SENSOR) RMJS-8T-DV-B (0-10V DIMMING POWER PACK WITH WIRELESS RECEIVER)	LIGHT FIXTURES IN THIS ROOM ARE TO BE MANUAL-ON/ AUTO-OFF CONTROLLED BY THE DIMMING POWER PACK WITH WIRELESS RECEIVER; RECEIVING INPUTS FROM THE WIRELESS CEILING MOUNTED VACANCY SENSOR & THE WIRELESS DIMMING 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.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER + SERIES NUMBER	MOUNTING	LAMPS NO/TYPE	VOLTS	REMARKS
A2	WILLIAMS P/N FT-24-LS-8CS-AF-DIM-UNV 39W@3500K	RECESSED	38.9W LED	120	RECESSED CENTER BASKET LED 2X4 TROFFER. 0-10V DIMMING.
A2E	WILLIAMS P/N FT-24-LS-8CS-AF-EM/10W-DIM -UNV 39W@3500K	RECESSED	38.9W LED	120	RECESSED CENTER BASKET LED 2X4 TROFFER. 0-10V DIMMING. PROVIDE 90 MINUTE BATTERY PACK.
A3	WILLIAMS P/N FT-24-LS-8CS-AF-DIM-UNV 27W@3500K	RECESSED	27.3W LED	120	RECESSED CENTER BASKET LED 2X4 TROFFER. 0-10V DIMMING.
A3E	WILLIAMS P/N FT-24-LS-8CS-AF-EM/10W-DIM -UNV 27W@3500K	RECESSED	27.3W LED	120	RECESSED CENTER BASKET LED 2X4 TROFFER. 0-10V DIMMING. PROVIDE 90 MINUTE BATTERY PACK.
DA	WILLIAMS P/N 4AR-L15/835-DIM-UNV-OM -OF-CS-N-F1	RECESSED	17.2W LED	120	4" RECESSED LED DOWNLIHGT. 3500K. 1500LM. 0-10V DIMMING.
DAE	WILLIAMS P/N 4AR-L15/835-EM/7W-DIM-UNV-OM -OF-CS-N-F1	RECESSED	17.2W LED	120	4" RECESSED LED DOWNLIHGT. 3500K. 1500LM. 0-10V DIMMING. PROVIDE 90 MINUTE BATTERY PACK.
D4	WILLIAMS P/N 4DR-TL-L10/835-DIM-UNV-OM -OF-CS-N-F1	RECESSED	9W LED	120	4" RECESSED LED DOWNLIHGT. 3500K. 1000LM. 0-10V DIMMING.
D4E	WILLIAMS P/N 4DR-TL-L10/835-EM/7W-DIM-UNV-OM -OF-CS-N-F1	RECESSED	9W LED	120	4" RECESSED LED DOWNLIHGT. 3500K. 1000LM. 0-10V DIMMING. PROVIDE 90 MINUTE BATTERY PACK.
D4B	WILLIAMS P/N 4DR-TL-L15/835-DIM-UNV-OM -OF-CS-N-F1	RECESSED	9W LED	120	4" RECESSED LED DOWNLIHGT. 3500K. 1500LM. 0-10V DIMMING.
G	WILLIAMS P/N 96-4-L62/835-HIAFR-DIM-UNV	SURFACE	48W LED	120	LINEAR LED LIGHT. 3500K. 0-10V DIMMING.
PD	KICHLER ABBOTSWELL 12 LIGHTS CHANDELIER (43498BK) - 39.25"	SUSPENDED	60W LED	120	DECORATIVE PENDANT LIGHT. 0-10V DIMMING.
PD	VISUAL COMFORT & Co. SLO1271TXB	SUSPENDED	19W LED	120	DECORATIVE HANGING LANTERN. TEXTURED BLACK.
UMI	VISUAL COMFORT & Co. SLO1221TXB	WALL	11.8W LED	120	DECORATIVE MINI WALL LANTERN.
D4X	WILLIAMS P/N 4DR-TL-L20/835-DIM-UNV-OW -OF-CS-WET-CC-N-F1	RECESSED	20W LED	120	4" RECESSED LED DOWNLIHGT. 3500K. 2000LM. 0-10V DIMMING. WET LOCATION.
SL	LSI P/N MRM-LED-18L-SIL-FT-UNV-DIM-30 -70CRI-XX	POLE	270W LED	120	PARKING LOT POLE LIGHT.
WM	LSI P/N XWM-4-LED-12L-40-UE-XX	WALL	77W LED	120	EXTERIOR WALL PACK.
FL	LSI P/N XFLM-MF-LED-28-HO-CW-UE	GROUND	36W LED	120	GROUND MOUNTED FLAG LIGHT.
DL	LSI P/N XIG	GROUND	19W LED	120	GROUND MOUNT LANDSCAPE AND DIRECTIONAL SIGN. LED. WET LOCATION.
X	LSI P/N EX-R-U-WB-WH	SURFACE	< 5W LED	120	NEW EXIT SIGN. PROVIDE WITH 90-MINUTE BATTERY PACK. MATCH DIRECTIONAL ARROWS AS NOTED ON PLANS.
EM2	LSI P/N SRL-D-BK	SURFACE	1.5W LED	120	DOUBLE HEAD LED REMOTE EMERGENCY LIGHT. WET LOCATION.

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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REVISIONS

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	90% REVIEW SET	08/20/26
	ISSUE FOR PERMIT & BID	09/11/26
	ADDENDUM A	09/18/26
2	ADDENDUM B	09/24/26

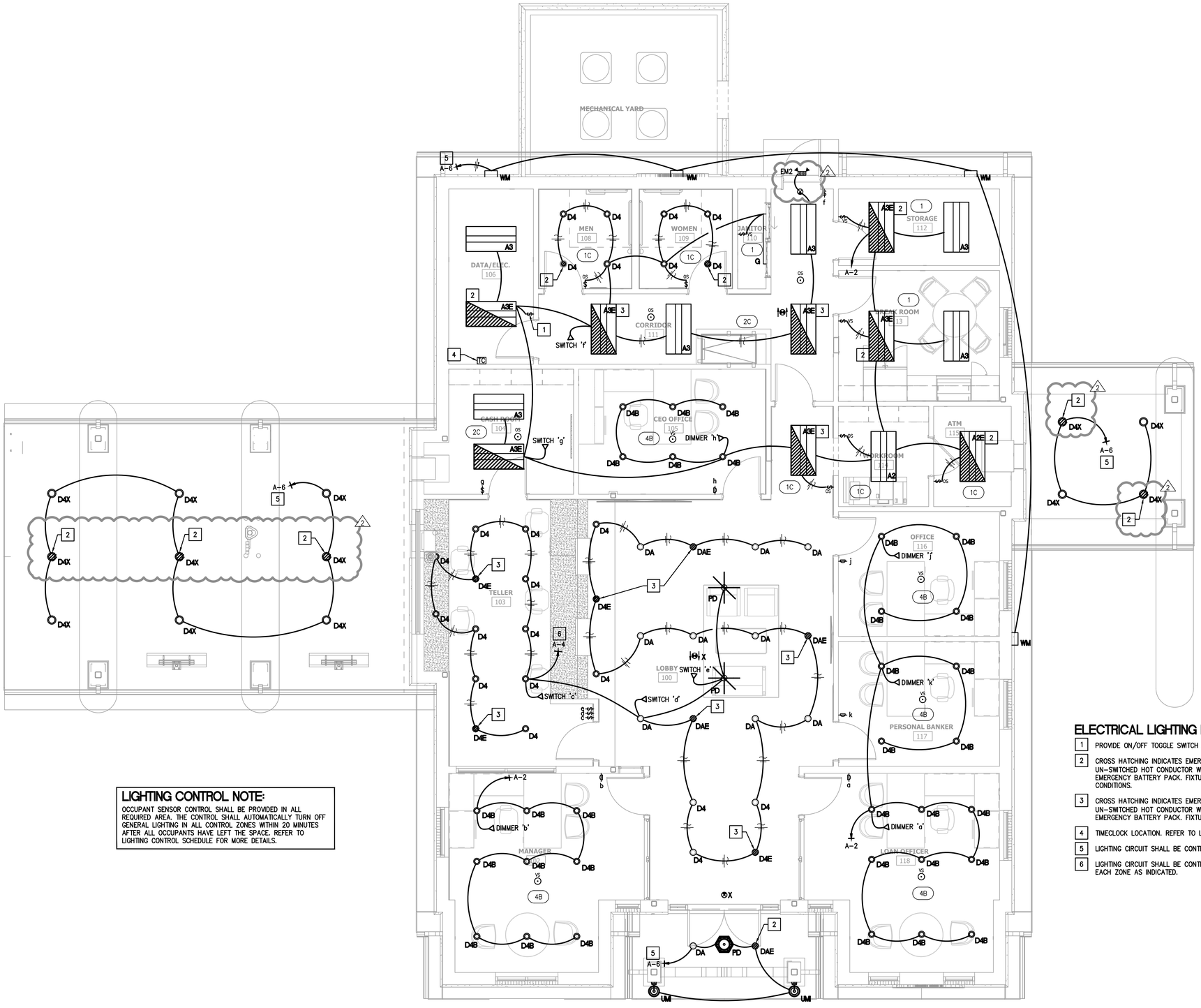
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JOSE M. GUERRERO
154536
REGISTERED PROFESSIONAL ENGINEER
09/24/2026

DRAWING TITLE
ELECTRICAL INFORMATION

SHEET NO.
E-0.10

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



LIGHTING CONTROL NOTE:

OCCUPANT SENSOR CONTROL SHALL BE PROVIDED IN ALL REQUIRED AREA. THE CONTROL SHALL AUTOMATICALLY TURN OFF GENERAL LIGHTING IN ALL CONTROL ZONES WITHIN 20 MINUTES AFTER ALL OCCUPANTS HAVE LEFT THE SPACE. REFER TO LIGHTING CONTROL SCHEDULE FOR MORE DETAILS.

ELECTRICAL LIGHTING KEYED NOTES:

1. PROVIDE ON/OFF TOGGLE SWITCH AT THIS LOCATION.
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 BE SWITCHED AS SHOWN UNDER NORMAL CONDITIONS.
3. 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.
4. TIMECLOCK LOCATION. REFER TO LIGHTING CONTROL NOTES FOR ADDITIONAL INFORMATION.
5. LIGHTING CIRCUIT SHALL BE CONTROLLED BY PHOTOCELL RECEPTORS.
6. LIGHTING CIRCUIT SHALL BE CONTROLLED BY TIME CLOCK. PROVIDE OVERRIDE SWITCH FOR EACH ZONE AS INDICATED.

01 ELECTRICAL LIGHTING PLAN

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

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	ADDENDUM A	09/18/26
2	ADDENDUM B	09/24/26

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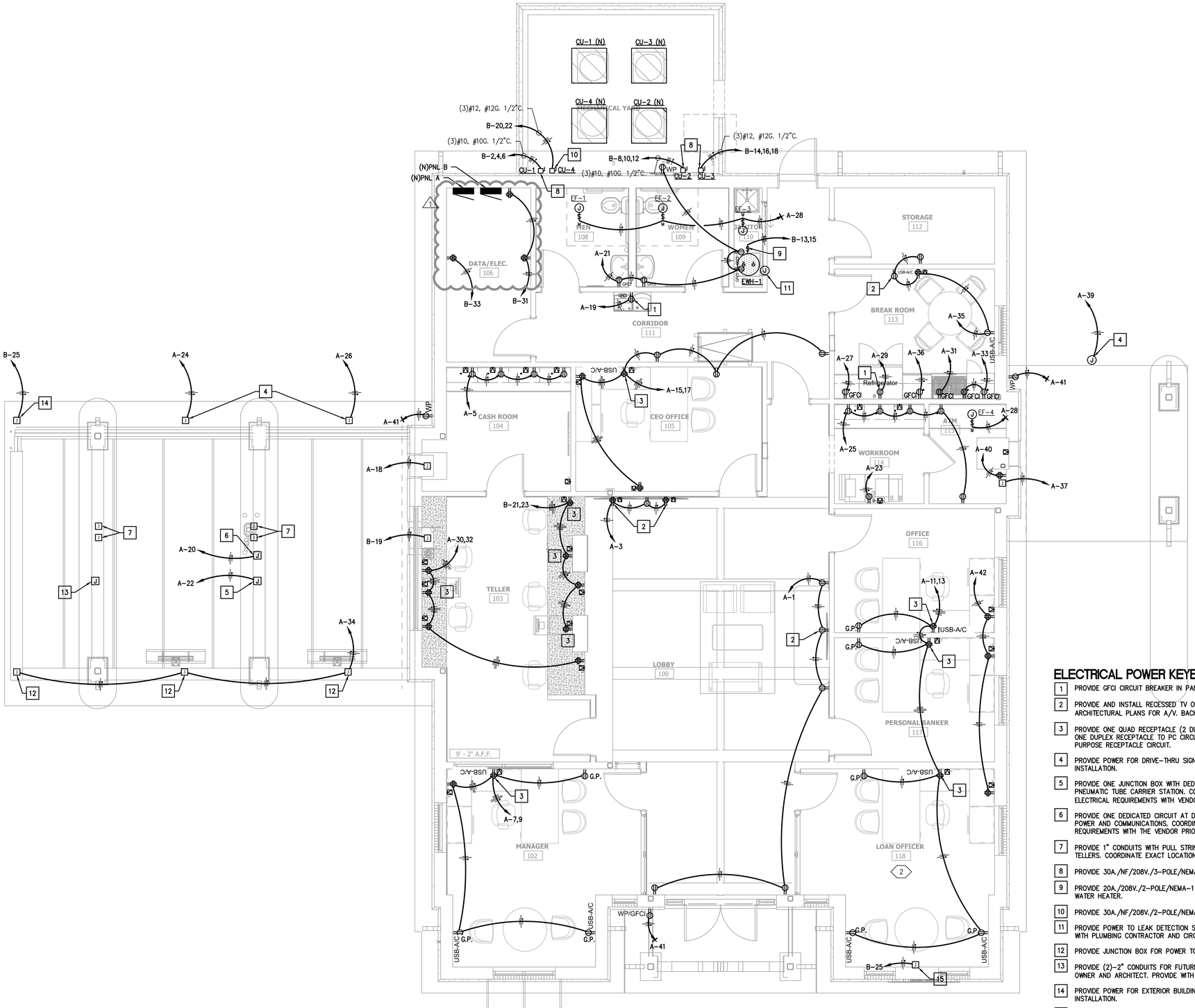
STATE OF TEXAS
JOSE M. GUERRERO
154536
REGISTERED PROFESSIONAL ENGINEER
09/24/2026

DRAWING TITLE

ELECTRICAL LIGHTING PLAN

SHEET NO.

E-1.10



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

ELECTRICAL POWER KEYED NOTES:

1. PROVIDE GFCI CIRCUIT BREAKER IN PANEL BOARD.
2. PROVIDE AND INSTALL RECESSED TV OUTLET AT +60" A.F.F. THIS LOCATION. REFER TO ARCHITECTURAL PLANS FOR A/V. BACK BOX AND ADDITIONAL ROUGH-IN INFORMATION.
3. PROVIDE ONE QUAD RECEPTACLE (2 DUPLEX RECEPTACLES UNDER ONE COVER). CONNECT ONE DUPLEX RECEPTACLE TO PC CIRCUIT AND ONE DUPLEX RECEPTACLE TO GENERAL PURPOSE RECEPTACLE CIRCUIT.
4. PROVIDE POWER FOR DRIVE-THRU SIGN. VERIFY LOCATION WITH VENDOR PRIOR TO INSTALLATION.
5. PROVIDE ONE JUNCTION BOX WITH DEDICATED CIRCUIT ABOVE DRIVE-THROUGH CANOPY FOR PNEUMATIC TUBE CARRIER STATION. COORDINATE FINAL LOCATION, CONDUIT ROUTING, AND ELECTRICAL REQUIREMENTS WITH VENDOR'S APPROVED SHOP DRAWINGS.
6. PROVIDE ONE DEDICATED CIRCUIT AT DRIVE-THROUGH LANE TRANSACTION PEDESTAL FOR POWER AND COMMUNICATIONS. COORDINATE CONDUIT SIZE AND FINAL ROUGH-IN REQUIREMENTS WITH THE VENDOR PRIOR TO INSTALLATION.
7. PROVIDE 1" CONDUITS WITH PULL STRING FOR AUDIO/VIDEO AND CONTROLS BACK TO TELLERS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH EQUIPMENT VENDOR
8. PROVIDE 30A./NF/208V./3-POLE/NEMA-3R DISCONNECT IN ACCESSIBLE LOCATION.
9. PROVIDE 20A./208V./2-POLE/NEMA-1 HD TOGGLE SWITCH IN ACCESSIBLE LOCATION FOR WATER HEATER.
10. PROVIDE 30A./NF/208V./2-POLE/NEMA-3R DISCONNECT IN ACCESSIBLE LOCATION.
11. PROVIDE POWER TO LEAK DETECTION SYSTEM LOCATED NEAR WATER HEATER. COORDINATE WITH PLUMBING CONTRACTOR AND CIRCUIT TO NEAREST GENERAL PURPOSE CIRCUIT.
12. PROVIDE JUNCTION BOX FOR POWER TO TV. VERIFY LOCATION PRIOR TO INSTALLATION.
13. PROVIDE (2)-2" CONDUITS FOR FUTURE ATM POWER AND DATA. VERIFY LOCATION WITH OWNER AND ARCHITECT. PROVIDE WITH PULL-STRING, CAP AND TAG.
14. PROVIDE POWER FOR EXTERIOR BUILDING SIGN. VERIFY LOCATION WITH VENDOR PRIOR TO INSTALLATION.
15. PROVIDE POWER ABOVE CEILING FOR EXTERIOR SIGN. VERIFY LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.

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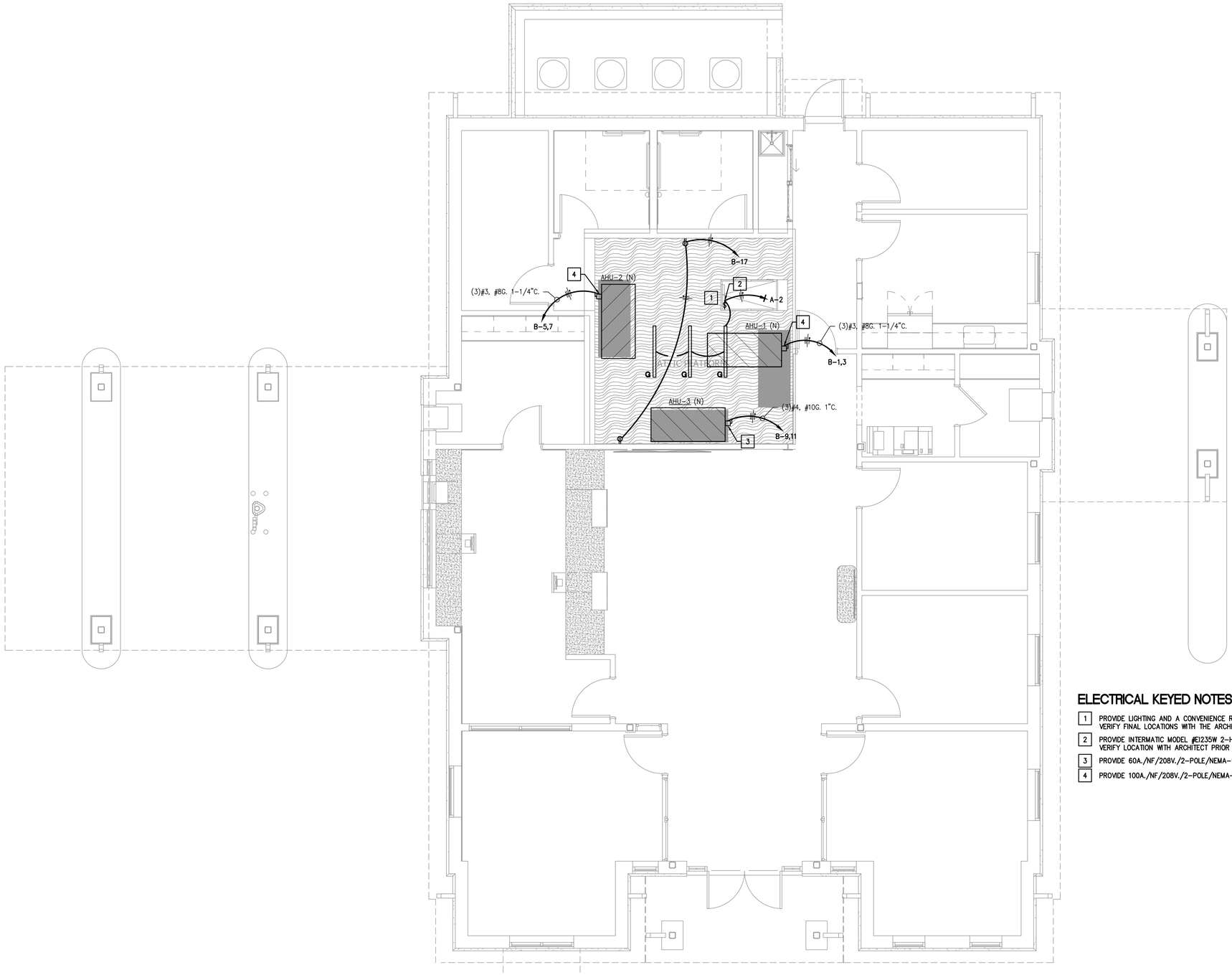
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1	ADDENDUM A	09/18/26

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STATE OF TEXAS
JOSE M. GUERRERO
154536
REGISTERED PROFESSIONAL ENGINEER
09/18/2026

DRAWING TITLE
ELECTRICAL POWER PLAN

SHEET NO.
E-2.10



ELECTRICAL KEYED NOTES:

1. PROVIDE LIGHTING AND A CONVENIENCE RECEPTACLE IN THE ATTIC SPACE AS INDICATED. VERIFY FINAL LOCATIONS WITH THE ARCHITECT.
2. PROVIDE INTERMATIC MODEL #EI235W 2-HOUR ELECTRONIC COUNTDOWN TIMER SWITCH. VERIFY LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
3. PROVIDE 60A./NF/208V./2-POLE/NEMA-1 DISCONNECT IN ACCESSIBLE LOCATION.
4. PROVIDE 100A./NF/208V./2-POLE/NEMA-1 DISCONNECT IN ACCESSIBLE LOCATION.

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

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DRAWING TITLE
ELECTRICAL PLAN - ATTIC

SHEET NO.
E3.10

PROJECT NAME: NATIONAL BANK & TRUST – BASTROP
PROJECT NUMBER: 26129.00

PANEL: **A** NEW PANEL
VOLTAGE: 120/208V, 3PH, 4W BUS: 400 AMP MAINS: 400A MCB ACCESSORIES: FEED–THROUGH LUGS

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	900	REC. LOBBY	20/1	1	A	2	20/1	INTERIOR LIGHTING	997	0
2	600	TV LOBBY	20/1	3	B	4	20/1	INTERIOR LIGHTING	491	0
1	720	REC.	20/1	5	C	6	20/1	EXTERIOR LIGHTING	721	0
2	300	PC	20/2	7	A	8	20/2	PARKING LOT LIGHTING	1080	0
1	720	REC.	–	9	B	10	–	PARKING LOT LIGHTING	1080	0
2	900	PC	20/2	11	C	12	20/1	MONUMENT SIGN	1200	0
1	1440	REC.	–	13	A	14	20/1	LIGHTING	500	0
2	600	PC	20/2	15	B	16	20/1	MONUMENT SIGN	1200	0
1	1080	REC.	–	17	C	18	20/1	ATM	500	2
2	600	EDF	20/1	19	A	20	20/1	TRANSACTION PEDESTAL	1000	2
1	900	GFI REC.	20/1	21	B	22	20/1	TUBE STATION	1000	2
2	1200	COPIER	20/1	23	C	24	20/1	SIGN	1200	0
1	900	REC.	20/1	25	A	26	20/1	SIGN	1200	0
1	180	REC. BR RM	20/1	27	B	28	20/1	EF	84	3
6	800	REF.	20/1	29	C	30	20/2	PC	1200	2
6	800	GARAGE DISPOSAL	20/1	31	A	32	–	GP REC.	720	1
1	540	GFCO REC.	20/1	33	B	34	20/1	TV	600	2
1	900	REC.	20/1	35	C	36	20/1	ICE MAKER	500	6
2	500	ATM MACHINE	20/1	37	A	38	20/1	FUTURE ATM	500	2
0	1200	SIGN	20/1	39	B	40	20/1	DED.	500	2
1	540	WP/GFCI REC.	20/1	41	C	42	20/1	REC.	1080	1

LIGHTS	RECEP.	EQUIP.	MOTORS	EL. HEAT	PHASE	F.T.L.	PHASE	CONN.KVA	LOAD FACTORS	DES. KVA	DES. AMP
3777	3960	3620	0	0	A		A	11.4	LIGHTS @ 125%	12.0	100
3971	2340	3300	84	0	B		B	9.7	EQUIP. @ 100%	11.2	93
3121	4320	4970	0	0	C		C	12.4	LG. MOTOR @125%	12.7	106
10869	10620	11890	84	0	TOTAL		TOTAL	33.5	RECEPS @ 10kW+50%	35.9	100

SUB-FEED PANELS:

PANEL NAME	S.F. KVA	LOAD FACTORS	DES. KVA	DES. AMP
PANEL B	41.4	SUB FEED @ 100%	41.4	115
		GRAND TOTAL	77.3	215

PROJECT NAME: NATIONAL BANK & TRUST – BASTROP
PROJECT NUMBER: 26129.00

PANEL: **B** NEW PANEL
VOLTAGE: 120/208V, 3PH, 4W BUS: 400 AMP MAINS: M.L.O. ACCESSORIES: FEED–THROUGH LUGS

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
3	5824	AHU-1	70/2	1	A	2	25/3	CU-1	2402	7
3	5824	–	–	3	B	4	–	–	491	0
3	5824	AHU-2	70/2	5	C	6	–	–	2402	7
3	5824	–	–	7	A	8	25/3	CU-2	2402	7
3	3811	AHU-3	50/2	9	B	10	–	–	2402	7
3	3911	–	–	11	C	12	–	–	2402	7
4	1500	EWH-1	20/2	13	A	14	20/3	CU-3	1729	7
4	1500	–	–	15	B	16	–	–	1729	7
1	360	REC. ATTIC	20/1	17	C	18	–	–	1729	7
2	500	DED.	20/1	19	A	20	15/2	CU-4	811	3
2	1200	PC	20/2	21	B	22	–	–	811	3
1	720	GP REC.	–	23	C	24		SPACE		
0	1200	EXTERIOR SIGN	20/1	25	A	26		SPACE		
0	114	GROUND LIGHTING	20/1	27	B	28		SPACE		
0	224	GROUND LIGHTING	20/1	29	C	30		SPACE		
1	720	REC. DATA RM	20/1	31	A	32		SPACE		
1	360	REC. DATA RM	20/1	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	F.T.L.	PHASE	CONN.KVA	LOAD FACTORS	DES. KVA	DES. AMP
1200	720	500	12459	1500	A		A	22.9	LIGHTS @ 125%	16.7	139
114	360	1200	10446	1500	B		B	20.2	EQUIP. @ 100%	13.6	114
224	1080	0	9735	0	C		C	17.6	LG. MOTOR @125%	11.1	92
1538	2160	1700	32640	3000	TOTAL		TOTAL	60.8	RECEPS @ 10kW+50%	41.4	115

ELECTRICAL LOAD ANALYSIS
PROJECT NAME: NATIONAL BANK & TRUST – BASTROP
PROJECT NUMBER: 26129.00

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

SERVICE RATING: 400AMPS

GROSS AREA: 2,912 SQUARE FEET BANK

LOAD DESCRIPTION	CODE LOAD (kVA)	CONNECTED LOAD (kVA)	DEMAND FACTORS (%)	DESIGN LOAD (kVA)	REMARKS
LIGHTS (1.3 VA/FT2):	3.8	2.1	100%	3.8	NEC 220.42, 43, 44, 45
SIGN LIGHTS:		6.0	125%	7.5	NEC 220.14.F
SITE LIGHTS:		2.5	125%	3.1	NEC 220.42, 43, 44, 45
RECEPTACLES (1.0 VA/FT2)	2.9	12.8	10kVA+50%	11.4	NEC 220.14.H, I, J, K, 220.47
EQUIPMENT:		13.6	100%	13.6	NEC 220.14.A
WATER HEATERS:		3.0	100%	3.0	NEC 220.14.A
HVAC:		32.7	100%	32.7	NEC 220.14.C, 220.50
ELECTRIC HEAT: (IN HVAC)		0.0	100%	0.0	NEC 220.51
LARGEST MOTOR:		0.0	125%	0.0	NEC 430.22
		TOTAL DESIGN LOAD:		75	kVA
		@ 208V, 3 PHASE:		208	AMPS

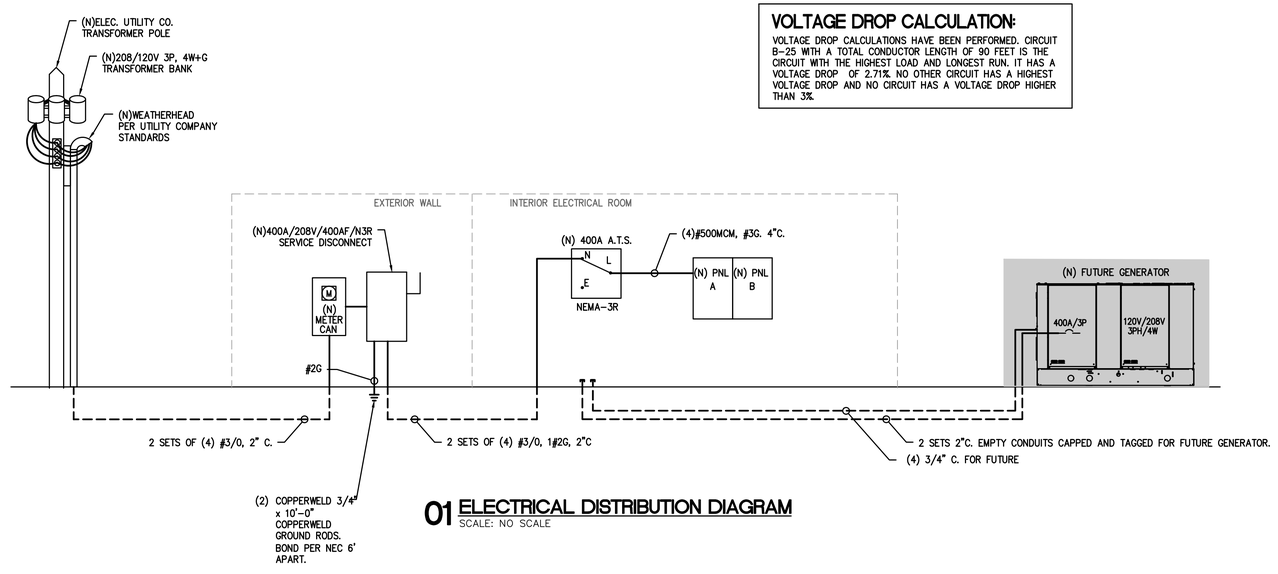
NOTE: ALL LOADS AND DEMAND FACTORS ARE IN ACCORDANCE WITH APPLICABLE SECTIONS OF NEC ARTICLE 220

ELECTRICAL DISTRIBUTION DIAGRAM NOTES:

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

VOLTAGE DROP CALCULATION:

VOLTAGE DROP CALCULATIONS HAVE BEEN PERFORMED. CIRCUIT B–25 WITH A TOTAL CONDUCTOR LENGTH OF 90 FEET IS THE CIRCUIT WITH THE HIGHEST LOAD AND LONGEST RUN. IT HAS A VOLTAGE DROP OF 2.71%. NO OTHER CIRCUIT HAS A HIGHEST VOLTAGE DROP AND NO CIRCUIT HAS A VOLTAGE DROP HIGHER THAN 3%.



01 ELECTRICAL DISTRIBUTION DIAGRAM
SCALE: NO SCALE

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

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

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E/BE Project Number : 26129.00

ISSUED FOR	DATE
ISSUED FOR CLIENT APPROVAL	
ISSUED FOR BIDDING	09/11/26
ISSUED FOR PERMIT	09/11/26
ISSUED FOR CONSTRUCTION	

REVISIONS

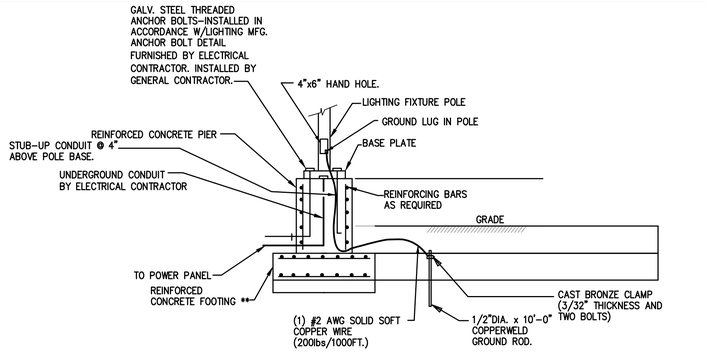
MARK	DESCRIPTION	DATE
	70% REVIEW SET	07/29/26
	90% REVIEW SET	08/20/26
	ISSUE FOR PERMIT & BID	09/11/26

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JOSE M. GUERRERO
No. 154536
REGISTERED PROFESSIONAL ENGINEER
STATE OF TEXAS

DRAWING TITLE
ELECTRICAL SCHEDULES

SHEET NO.
E4.10

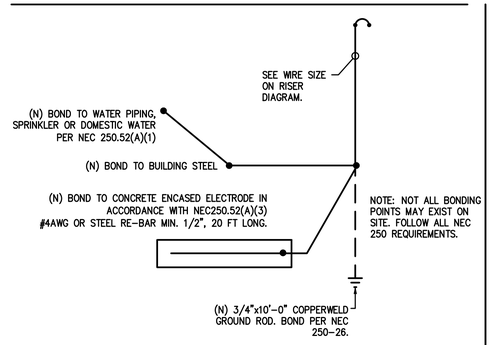


*NOTE – POLE BASE DIMENSIONS BY PROJECT STRUCTURAL ENGINEER.

**NOTE – ELECTRICAL CONTRACTOR TO REVIEW FINAL POLE BASE STRUCTURAL DETAIL WITH PROJECT STRUCTURAL ENGINEER

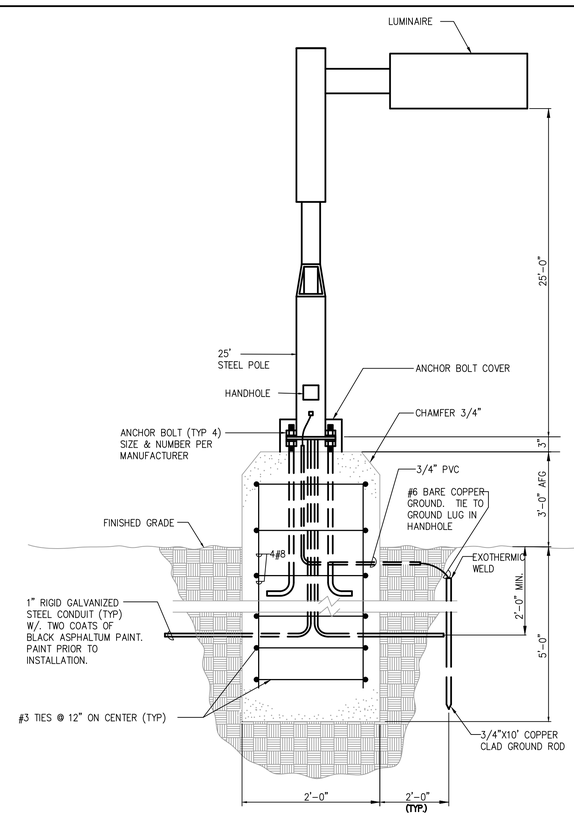
SITE LIGHTING POLE BASE 01

SCALE: NONE



GROUNDING DETAIL 03

SCALE: NONE



POLE MOUNTED SITE LIGHT 02

SCALE: NONE

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REVISIONS

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DRAWING TITLE

ELECTRICAL DETAILS

SHEET NO.

E5.10

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

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Model - KCS/KCP/KCC
Automatic Transfer Switches Standard Any Breaker Rated



Available Controllers
- Decision-Maker® MPAC 1200
- Decision-Maker® MPAC 1500

Ratings

Model	Current	Voltage, Frequency
KCS 400A.	30-4000 amps	208-600 VAC 50/60 Hz
KCP	150-4000 amps	
KCC	150-4000 amps	

Transfer Switch Standard Features
- UL 1008 listed
  file #E58962 (automatic), #E86894 (non-automatic)
- CSA certification available
- IBC and OSHPD seismic certification available
- Available in 2, 3, or 4 pole configurations
- Integral solid neutral provides line-to-neutral monitoring
- Electrically operated, mechanically held mechanism
- High withstand and close-on ratings
- Design suitable for emergency and standby applications on all classes of load, 100% tungsten rated through 400 amps
- Silver alloy main contacts
- Gold-flashed engine start contacts rated 2 amps @ 30 VDC/250 VAC
- Front-accessible contacts for easy inspection
- Front-replaceable main and arcing contacts (800-4000 amps)
- Reliable, field-proven solenoid mechanism
- Switching mechanisms lubricated for the expected life of the transfer switch
- Internal manual operating handle
- Main shaft auxiliary position-indicating contacts rated 10 amps @ 32 VDC/250 VAC
- NEMA type 1, 12, 3R, 4, and 4X enclosures available
- Standard one-year limited warranty. Extended limited warranties are available.

Standard-Transition Models (KCS)
- Standard-transition operation with either automatic or non-automatic control
- Standard-transition transfer time less than 100 milliseconds (6 cycles @ 60 Hz)
- Double-throw, mechanically interlocked design (break-before-make power contacts)
- Solid, switched, or overlapping (make-before-break) neutral

Programmed-Transition Models (KCP)
- Programmed-transition operation with either automatic or non-automatic control
- Programmed-transition operation provides a center OFF position that allows residual voltages in the load circuits to decay
- Programmable OFF time
- Double-throw, mechanically interlocked design (break-before-make power contacts)
- Solid or switched neutral

Closed-Transition Models (KCC)
- Closed-transition transfer switches operate with no power interruption during transfer and retransfer between two live sources
- Source parallel times are less than 100 milliseconds (6 cycles @ 60 Hz)
- Adjustable extended transfer time relay (ensure that the setting complies with applicable codes)
- Solid or switched neutral

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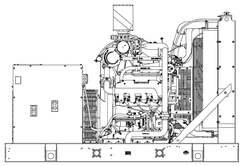
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Industrial Generator Set - KG150
208-600 V Gas

EPA Certified for Stationary Emergency and Non-Emergency Applications
Standby Rating – Stationary Emergency Applications

Ratings Range

		60 Hz
Standby:	**kW**	135-150
	kVA	135-188



Generator Specifications
Orderable Generator Model Number: GMKG150-A

Standard Features
- One-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The generator set offers a cULus listing (UL 2200 and CSA C22.2 No. 100).
- The generator set accepts rated load in one step.
- The 60 Hz generator set meets NFPA 110, Level 1, when equipped with the necessary accessories and installed per NFPA standards.
- A 2-year warranty covers all generator set systems and components.
  - Extendable to a five-year comprehensive warranty with a registered service contract through a distributor, dealer, or authorized service representative.
- Five-year basic, five-year comprehensive, and 10-year major component limited warranties are also available for purchase in some jurisdictions.
- Dual fuel model features:
  - Natural gas is the primary fuel. Automatically transfers back to primary fuel when LPG fuel becomes low or generator stops and restarts.
  - The reset knobs in the controller box provide the ability to transfer back to natural gas manually.
  - Automatic dual-fuel NG/LP system is available.

Generator Set Ratings

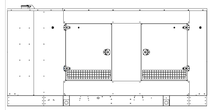
Alternator	Voltage	Ph	Hz	Natural Gas 130°C Rise Standby Rating kW/kVA	Amps	LP Gas 130°C Rise Standby Rating kW/kVA	Amps
KH00932TO4D	120/208	3	60	150/188	521	150/188	521
	120/240	3	60	150/188	452	150/188	452
	277/480	3	60	150/188	226	150/188	226
	347/600	3	60	150/188	181	150/188	181
KH01382TO4D	120/208	3	60	150/188	521	150/188	521
	120/240	3	60	150/188	452	150/188	452
	277/480	3	60	150/188	226	150/188	226
	347/600	3	60	145/181	175	150/188	181
KH01183MO4D	120/240	1	60	135/135	563	140/140	584

RATINGS: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor. *Standby Ratings:* The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-8528-1 and ISO-3046-1. For limited running time and continuous ratings, consult the factory. Obtain technical information bulletin (TIB-101) for ratings guidelines, complete ratings definitions, and site condition derates. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. For dual fuel engines, use the natural gas ratings for both the primary and secondary fuels.

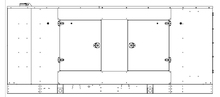
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Industrial Generator Set Accessories
Weather and Sound Enclosures



Standard Enclosure



Premium Sound Enclosure

Available Approvals and Listings
- ❑ UL2200 Listing
- ❑ CSA Certified
- ❑ IBC Seismic Certification
- ❑ Hurricane Rated Enclosure - Available on aluminum sound premium enclosures (Impact rated for Large Missile Level E and Wind load rated per Florida Building Code tested to TAS201-94, TAS202-94 and TAS203-94 standards)

Note: Some models may have limited third-party approvals; see your local distributor for details.

Applicable to the following: KG150-KG200

Weather Enclosure Standard Features
- Internal-mounted critical silencer and flexible exhaust connector.
- Skid-mounted, steel construction with hinged doors.
- Fade-, scratch-, and corrosion-resistant Power Armor™ automotive-grade textured finish.
- Enclosure has four access doors which allow for easy maintenance.
- Lockable, flush-mounted door latches.
- Vertical air outlet discharge to redirect air and reduce noise.
- Steel weather enclosure is analyzed to 150 mph (241 kph) wind load rating.

Sound Enclosure Standard Features
- Includes all of the weather enclosure features with the addition of acoustic insulation material.
- Skid-mounted, steel or aluminum construction with hinged doors. Aluminum enclosures are recommended for high humidity and/or high salt/coastal regions.
  Acoustic insulation that meets UL 94 HF1 flammability classification and repels moisture absorption.
- Sound attenuated enclosure that uses up to 51 mm (2 in.) of acoustic insulation, and acoustic-lined air discharge hood.
- Aluminum sound enclosure is certified to 186 mph (299 kph) wind load rating.
- Steel sound enclosure is analyzed to 150 mph (241 kph) wind load rating.

Premium Sound Enclosure Standard Features
- Includes all of the standard sound enclosure features listed above.
- Premium sound enclosure has a louvered air intake on the rear, intake sound baffles, and no door intakes.
- Premium sound enclosures include 51 mm (2 in.) acoustic insulation material and acoustic-lined air discharge.

Weather and Sound Enclosure Specifications

Model	Max. Dimensions, mm (in.) Length	Width	Height	Max. Weight, kg (lb.) * Steel Weather Enclosure	Steel Sound Enclosure	Aluminum Sound Enclosure	Sound Pressure Level at 60 Hz with Full Load, Weather/Sound, dB(A) †
Standard Weather and Sound Enclosure							
KG150	3502 (137.9)	1340 (52.8)	1949 (76.7)	2111 (4657)	2132 (4703)	1976 (4360)	79/70
KG180	3848 (151.5)			2675 (5902)	2698 (5952)	2637 (5819)	85/72
KG200							85/73
Premium Sound Enclosure							
KG150	4406 (173.5)	1340 (52.8)	1949 (76.7)	-	2280 (5030)	2108 (4650)	69
KG180				-	2810 (6200)	2638 (5820)	70
KG200							70

Note: Data in table is for reference only, refer to the respective ADV drawings for details.
* Max. weight includes the generator set (wet) with largest alternator option, enclosure, and silencer.
† Log average sound pressure level of 8 measured positions around the perimeter of the unit at a distance of 7 m (23 ft). Refer to TIB-114 for details.

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Model - KCS/KCP/KCC
Automatic Transfer Switches Standard Any Breaker Rated

Available Automatic Transfer Switch Controllers
Select one of the following controllers for your automatic transfer switch.

Decision-Maker® MPAC 1200 Controller



- LCD display, 4 lines x 20 characters, backlit
- Complete programming and viewing capability at the door using the keypad and LCD display
- LED indicators: Source available, transfer switch position, service required (fault), and "not in auto"
- Programmable voltage and frequency pickup and dropout settings
- Programmable time delays
- Programmable generator exerciser
- Time-based load control
- Two programmable inputs and two programmable outputs
- Up to four I/O extension modules available
- Modbus communication standard
- RS-485 communication standard
- Ethernet communication optional
- For more information about Decision-Maker® MPAC 1200 features and functions, see specification sheet G11-127.

Decision-Maker® MPAC 1500 Controller



- LCD display, 4 lines x 20 characters, backlit
- Complete programming and viewing capability at the door using the keypad and LCD display
- LED indicators: Source available, transfer switch position, service required (fault), and "not in auto"
- Programmable voltage and frequency pickup and dropout settings
- Programmable time delays
- Programmable generator exerciser
- Time-based load control
- Current-based load control (current-sensing kit required)
- Two programmable inputs and two programmable outputs
- Up to four I/O extension modules available
- Modbus communication standard
- RS-485 communication standard
- Ethernet communication standard
- Three-source system
- Prime power

For more information about Decision-Maker® MPAC 1500 features and functions, see specification sheet G11-128.

Codes and Standards
The ATS meets or exceeds the requirements of the following specifications:
- CSA C22.2 No. 178 certification available, file #LR58301
- EN61000-4-4 Fast Transient Immunity Severity Level 4
- EN61000-4-5 Surge Immunity Class 4 (voltage sensing and programmable inputs only)
- IEC Specifications for EMI/EMC Immunity:
  - CISPR 11, Radiated Emissions
  - IEC 1000-4-2, Electrostatic Discharge
  - IEC 1000-4-3, Radiated Electromagnetic Fields
  - IEC 1000-4-4, Electrical Fast Transients (Bursts)
  - IEC 1000-4-5, Surge Voltage
  - IEC 1000-4-6, Conducted RF Disturbances
  - IEC 1000-4-8, Magnetic Fields
  - IEC 1000-4-11, Voltage Dips and Interruptions
- IEEE Standard 446, IEEE Recommended Practice for Emergency and Standby Power Systems for Commercial and Industrial Applications
- IEEE 472 (ANSI C37.90A) Ring Wave Test
- NEMA Standard ICS 10-2005, Electromechanical AC Transfer Switch Equipment
- NFPA 70, National Electrical Code
- NFPA 99, Essential Electrical Systems for Health Care Facilities
- NFPA 110, Emergency and Standby Power Systems
- Seismic certification in accordance with the International Building Code is available. (Accessory kit is required for seismic certification.)
  - IBC 2000, referencing ASCE 7-98 and ICC AC-156
  - IBC 2003, referencing ASCE 7-02 and ICC AC-156
  - IBC 2006, referencing ASCE 7-05 and ICC AC-156
  - IBC 2009, referencing ASCE 7-05 and ICC AC-156
  - IBC 2012, referencing ASCE 7-10 and ICC AC-156
- California OSHPD approval is available. (Accessory kit required.)
- Underwriters Laboratories UL 1008, Standard for Automatic Transfer Switches for Use in Emergency Standby Systems file #E58962 (automatic), #E86894 (nonautomatic)

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Industrial Generator Set - KG150
208-600 V Gas

Application Data

Engine

Engine Specifications	
Manufacturer	Rehlko
Engine: model, type	KG10V08T-6CGS (NG) KG10V08T-6DGS (Dual fuel/LP) 4- Cycle, Turbocharged, Charge Air Cooled
Cylinder arrangement	V-8
Displacement, L (cu. in.)	10.3 (628)
Bore and stroke, mm (in.)	117 x 121 (4.59 x 4.74)
Compression ratio	9.3:1
Piston speed, m/min. (ft./min.)	434 (1424)
Main bearings: quantity, type	5, Tri-Metal
Rated rpm	1800
Max. power at rated rpm, kW (HP)	
NG	174 (233)
LP	178 (239)
Dual Fuel - NG	227 (304)
Dual Fuel - LP	178 (239)
Governor type	Electronic
Frequency regulation, no-load to full-load	Isochronous
Frequency regulation, steady state	±0.75%
Frequency	Fixed
Air cleaner type, all models	Dry

Lubrication

Lubricating System	
Type	Full Pressure
Oil pan capacity, L (qt.) §	11.3 (11.9)
Oil pan capacity with filter and oil cooler, L (qt.) §	21.8 (22.9)
Oil filter: quantity, type §	1, Spin-on

§ Rehlko recommends the use of Rehlko Genuine oil and filters.

Fuel

Fuel System	
Fuel type	Natural Gas, LP Gas, or Dual Fuel
Max. fuel flow, m^3/hr. (cfh)	
NG	53.5 (1890)
LP	23 (813)
Fuel supply line inlet	2.0 in. NPTF
Natural gas fuel supply pressure, kPa (in. H_2O)	1.74-2.74 (7-11)
LPG vapor withdrawal fuel supply pressure, kPa (in. H_2O)	1.74-2.74 (7-11)

Fuel Composition Limits *	Nat. Gas	LP Gas
Methane, % by volume	90 min.	—
Ethane, % by volume	4.0 max.	—
Propane, % by volume	1.0 max.	85 min.
Propene, % by volume	0.1 max.	5.0 max.
C_4 and higher, % by volume	0.3 max.	2.5 max.
Sulfur, ppm mass		25 max.
Lower heating value, MJ/m^3 (Btu/ft^3), min.	33.2 (890)	84.2 (2260)

* Fuels with other compositions may be acceptable. If your fuel is outside the listed specifications, contact your local authorized distributor for further analysis and advice.

Fuel Consumption‡	
Natural Gas, m^3/hr. (cfh) at % load	**Standby Ratings**
100%	53.5 (1889)
75%	42.4 (1497)
50%	31.2 (1102)
25%	20.1 (710)
LP Gas, m^3/hr. (cfh) at % load	**Standby Ratings**
100%	23.0 (812)
75%	18.4 (650)
50%	13.6 (480)
25%	9.2 (325)

‡ Nominal fuel rating: Natural gas, 37 MJ/m^3 (1000 Btu/ft.^{3}) LP vapor, 93 MJ/m^3 (2500 Btu/ft.^{3})

LP vapor conversion factors:
8.58 ft.^{3} = 1 lb.
0.535 m^3 = 1 kg.
36.39 ft.^{3} = 1 gal.

Cooling

Radiator System	
Ambient temperature, °C (°F)'	50 (122)
Engine jacket water capacity, L (gal.)	11 (3.0)
Radiator system capacity, including engine, L (gal.)	32.4 (8.6)
Engine jacket water flow, Lpm (gpm)	200 (52.9)
Charge air cooler inlet temperature at 25°C (77°F) ambient, °C (°F)	120 (247)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	114 (6511)
Heat rejected to charge cooling air at rated kW, dry exhaust, kW (Btu/min.)	17 (990)
Turbocharger boost (abs), kPa (psi)	202 (30)
Water pump type	Centrifugal
Fan diameter, including blades, mm (in.)	813 (32.1)
Fan, kWm (HP)	12 (17)
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H_2O)	See TIB-118

* Enclosure with internal silencer reduces ambient temperature capability by 5°C (9°F).

Exhaust

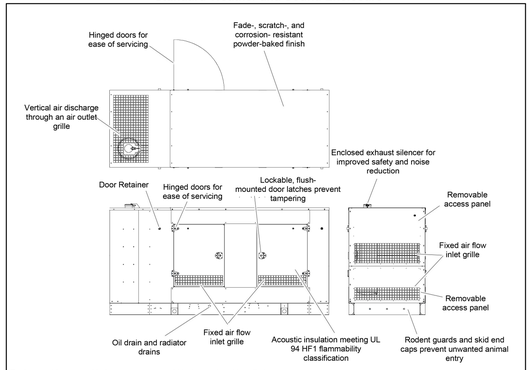
Exhaust System	
Exhaust manifold type	Dry
Exhaust flow at rated kW, m^3/min. (cfm)	29 (1035)
Exhaust temperature at rated kW, dry exhaust, °C (°F)	697 (1286)
Maximum allowable overall back pressure, kPa (in. Hg)	See TIB-119
Exhaust outlet size at engine hookup, mm (in.)	See ADV drawing

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rehlko

Industrial Generator Set Accessories
Weather and Sound Enclosures

Standard Weather and Sound Enclosure



Enclosure ships assembled on generator set skid when ordered installed.

Note: Standard enclosure shown.

ADV-9110A-1

Weather Enclosure Features
- Available in steel (14 gauge) formed panel, solid construction. Preassembled package offering corrosion resistant, dent resilient structure mounting directly to skid.
- Power Armor™ automotive-grade finish resulting in advanced corrosion and abrasion protection as well as enhanced edge coverage and color retention.
- Internal critical exhaust silencer offering maximum component life and operator safety.
  NOTE: Installing an additional length of exhaust tail pipe may increase backpressure levels. Please refer to the generator set spec sheet for the maximum backpressure value.
- Interchangeable modular panel construction.
  Allows complete serviceability or replacement without compromising enclosure design.
- Cooling/combustion air intake with a horizontal air inlet. Sized for maximum cooling airflow.
- Service access. Multi-personnel doors for easy access to generator set control and servicing of the oil fill and battery.
- Cooling air discharge. Weather protective design featuring a vertical air discharge outlet grille. Redirects cooling air up and above enclosures to reduce noise ambient.

Additional Sound Enclosure Features
- Available in steel (14 gauge) or aluminum 3.2 mm (0.125 in.) formed panel, solid construction.
- Sound-attenuating design. Mechanically restrained acoustic insulation UL 94 HF1 listed for flame resistance.
- Cooling air discharge. The sound enclosures include acoustic insulation with urethane film.

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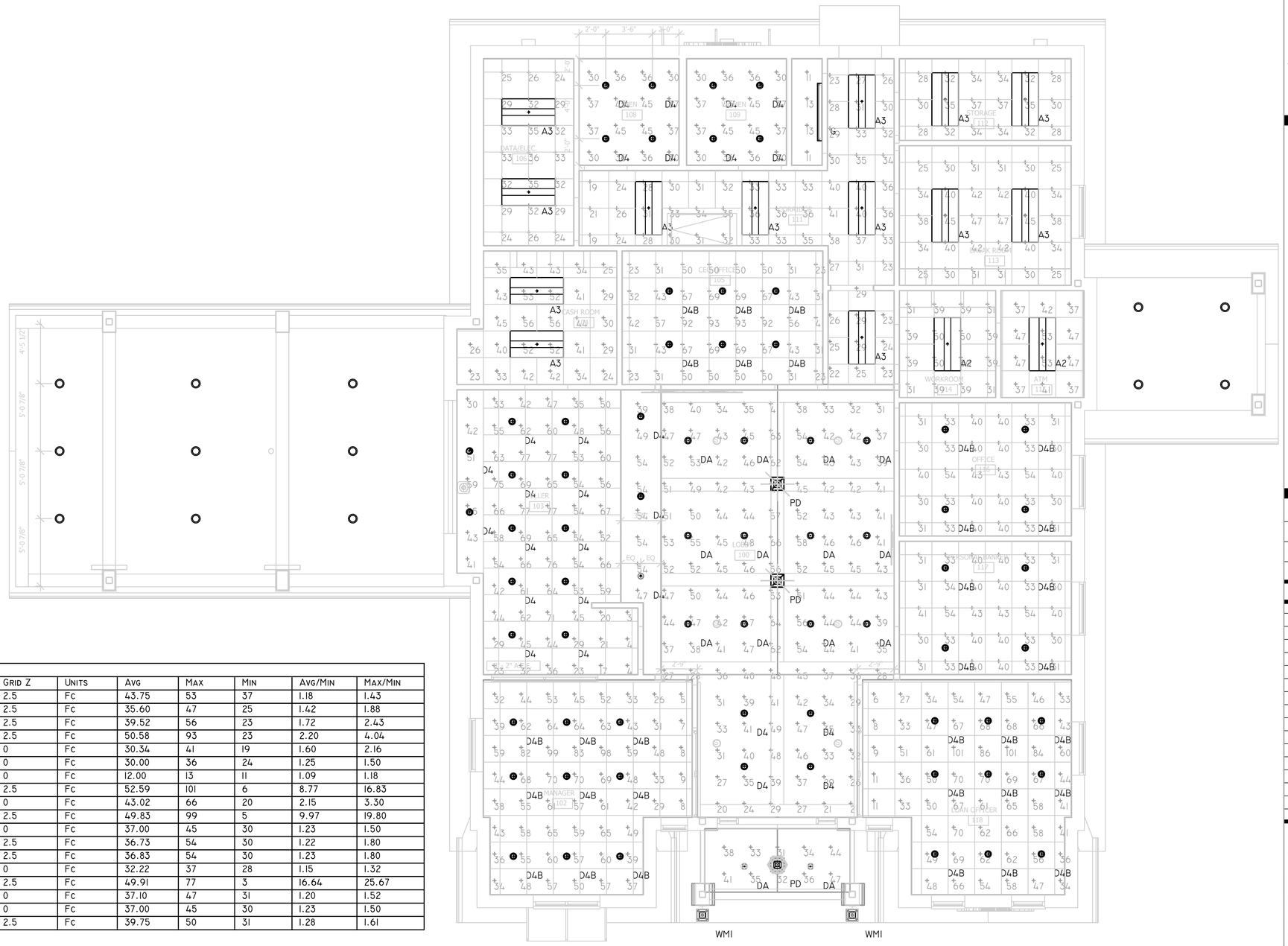
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JOSE M. GUERRERO
154536
REGISTERED PROFESSIONAL ENGINEER

DRAWING TITLE
GENERATOR SPECIFICATIONS

SHEET NO.
E6.10

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



Calculation Summary

Label	CalcType	Grid Z	Units	Avg	Max	Min	Avg/Min	Max/Min
REV ATM 115_Workplane	Illuminance	2.5	Fc	43.75	53	37	1.18	1.43
REV BREAK ROOM 113_Workplane	Illuminance	2.5	Fc	35.60	47	25	1.42	1.88
REV CASH ROOM 104_Workplane	Illuminance	2.5	Fc	39.52	56	23	1.72	2.43
REV CEO OFFICE_Workplane	Illuminance	2.5	Fc	50.58	93	23	2.20	4.04
REV CORRIDOR 111_Floor	Illuminance	0	Fc	30.34	41	19	1.60	2.16
REV DATA & ELEC 106_Floor	Illuminance	0	Fc	30.00	36	24	1.25	1.50
REV FIRE RISER_Floor	Illuminance	0	Fc	12.00	13	11	1.09	1.18
REV LOAN OFFICER 118_Workplane	Illuminance	2.5	Fc	52.59	101	6	8.77	16.83
REV LOBBY 100_Floor	Illuminance	0	Fc	43.02	66	20	2.15	3.30
REV MANAGER 102_Workplane	Illuminance	2.5	Fc	49.83	99	5	9.97	19.80
REV MEN 108_Floor	Illuminance	0	Fc	37.00	45	30	1.23	1.50
REV OFFICE 116_Workplane	Illuminance	2.5	Fc	36.73	54	30	1.22	1.80
REV PERSONAL BANKER 117_Workplane	Illuminance	2.5	Fc	36.83	54	30	1.23	1.80
REV STORAGE 112_Floor	Illuminance	0	Fc	32.22	37	28	1.15	1.32
REV TELLER 103_Workplane	Illuminance	2.5	Fc	49.91	77	3	16.64	25.67
REV VESTIBULE_Floor	Illuminance	0	Fc	37.10	47	31	1.20	1.52
REV WOMEN 109_Floor	Illuminance	0	Fc	37.00	45	30	1.23	1.50
REV WORK ROOM 114_Workplane	Illuminance	2.5	Fc	39.75	50	31	1.28	1.61

Luminaire Schedule

Symbol	Qty	Label	Mounting Height	Description	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	14	DA	10.676, 11.438, 14.15	WILLIAMS P/N: 4AR-LI5/835-DIM-UNV-OM-OF-CS-N-FI	0.900	1427	17.2	240.8
	32	D4B	9	WILLIAMS P/N: 4DR-TL-LI5/835-DIM-UNV-OW-OF-CS-N-FI	0.900	1466	13.9	444.8
	2	A2	9	WILLIAMS P/N: FT-24-LS-8CS-AF-DIM-UNV 39W@3500K	0.900	5765	38.9	77.8
	13	A3	9	WILLIAMS P/N: FT-24-LS-8CS-AF-DIM-UNV 27W@3500K	0.900	4111	27.309	355.017
	27	D4	9, 9.166	WILLIAMS P/N: 4DR-TL-LI0/835-DIM-UNV-OW-OF-CS-N-FI	0.900	1027	9	243
	1	G	8	WILLIAMS P/N: 96-4-L62/835-HIAFR-DIM-UNV	0.850	6242	48	48
	3	PD	10	PEMCO P/N: PM25CARLCA60W3KU5XPENXNFINISH	0.900	7207	56.6	169.8
	2	WMI	7	PEMCO P/N: PMCARL3WMSET	0.900	3801	30.6	61.2

N

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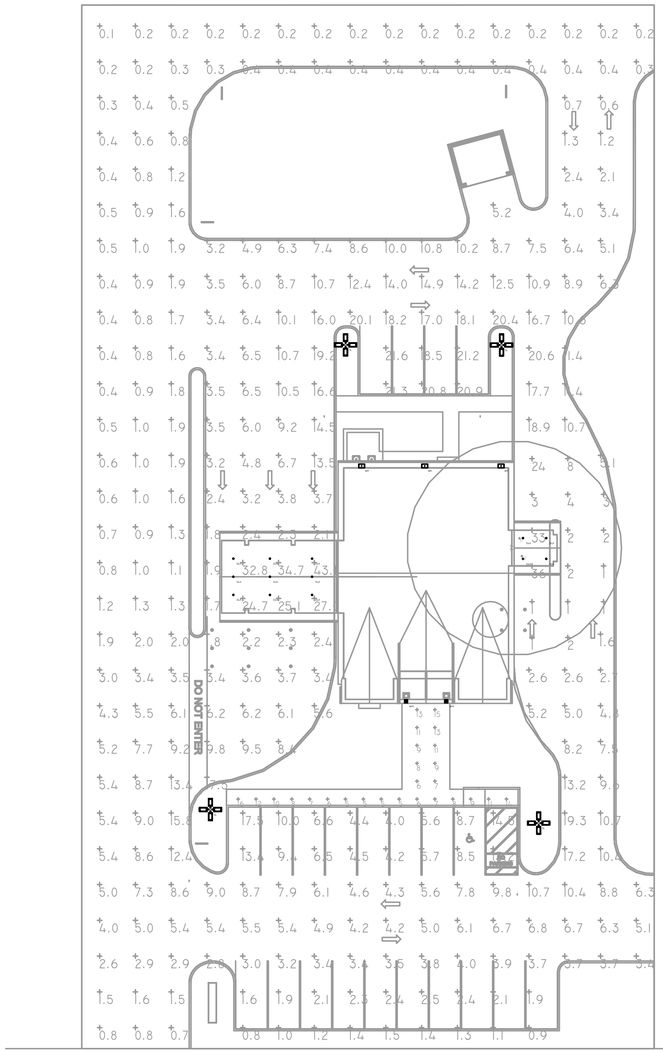
STATE OF TEXAS
JOSE M. GUERRERO
154536
REGISTERED
PROFESSIONAL ENGINEER
09/11/2026

DRAWING TITLE

INTERIOR LIGHTING PHOTOMETRICS

SHEET NO.

E7.10



Luminaire Schedule								
Symbol	Qty	Label	Mounting Height	Description	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	13	D4X	10, 10.5	WILLIAMS P/N: 4DR-TL-L20/835-DIM-UNV-0W-0F-CS-WET-CC-N-FI	0.900	1704	20	260
	4	SL	22	LSI P/N: MRM-LED-18L-SIL-FT-UNV-DIM-30-70CRI-XX	0.850	19324	135	2160
	3	WM	10	LSI P/N: XWM-4-LED-12L-40-UE-XX	0.900	12058	77	231
	2	WM1	7.5	PEMCO P/N: PMCARL3WMSET	0.900	3801	30.6	61.2

Calculation Summary								
Label	CalcType	Grid Z	Units	Avg	Max	Min	Avg/Min	Max/Min
ATM FACE_Side_2	Illuminance	2.405 to 5.082	Fc	9.83	15	5	1.97	3.00
CALCS @ GRADE	Illuminance	3	Fc	5.88	43.1	0.1	58.80	431.00
CALCS 5' FROM ATM FACE	Illuminance	3	Fc	31.50	32	31	1.02	1.03
CALCS 60' FROM ATM FACE	Illuminance	3	Fc	7.75	36	1	7.75	36.00
SIDEWALK CALCS	Illuminance	0.5	Fc	9.08	16	5	1.82	3.20

N

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STATE OF TEXAS
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REGISTERED PROFESSIONAL ENGINEER
09/11/2026

DRAWING TITLE
EXTERIOR LIGHTING PHOTOMETRICS

SHEET NO.
E8.10

GAS LOAD SUMMARY

SYSTEM	DESIGNATION OR ITEM NUMBER	EQUIPMENT DESCRIPTION	ITEM CFH	TOTAL CFH
EQUIPMENT				
	1	NATURAL GAS GENERATOR	1889	
			SUBTOTAL	1889
SAFETY		20% SAFETY FACTOR	379	
		TOTAL GAS LOAD		2267
SYSTEM INFORMATION SIZED FROM TABLE IPC 2018		INLET PRESSURE (PSI)		2
		TOTAL DEVELOPED LENGTH IN FEET		5'
		PRESSURE DROP (PSI)		1
		SPECIFIC GRAVITY		0.60

GAS PIPING NOTES

1. GAS PIPING INSTALLATION SHALL FOLLOW THE 2018 INTERNATIONAL PLUMBING CODE WITH ALL LOCAL AMENDMENTS. ALL GAS PIPING 2" LARGER LOCATED ABOVE GRADE SHALL BE SCHEDULE 40 BLACK STEEL (ASTM A54) WELDED JOINTS. ALL GAS PIPING ABOVE GRADE 1 1/2" AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL PIPE (ASTM A53) WITH THREADED JOINTS AND 150 # THREADED MALLEABLE IRON FITTING (ASTM A47). ALL GAS PIPING BELOW GRADE 1 1/2" AND SMALLER SHALL BE POLYRYTHLENE (PE) TUBING (ASTM D2513) WITH JOINTS PER MANUFACTURERS RECOMMENDATION..
2. THREADED JOINTS SHALL BE MADE WITH A MIXTURES OF GRAPHITE AND OIL APPLIED TO MALE THREADS ONLY. PIPE SHALL BE REAMED AND SHALL HAVE BURRS REMOVED PRIOR TO THREADING.
3. WELDED JOINTS SHALL BE FUSION WELDED IN ACCORDANCE WITH THE AMERICAN STANDARDS CODE FOR PRESSURE PIPIE, ANSI B31.1, SECTION 6.
4. UNIONS SHALL BE 150# SOCKET WELDED CARBON STALLE CONFORMING TO FEDERAL SPECIFICATION WW-U-53C.
5. VALVES 3" AND LARGER SHALL BE SEMI-STEEL PLUG VALVES WITH CAST IRON BODY, LUBRICATED CAST IORN PLUG, FLANGED ENDS AND WRENCH OPERATED FOR 175# WOG.
6. VALVES 2 -1/2" AND SMALLER SHALL HAVE BRONZE BODY AND PLUG, SOCKET WELDED ENDS AND SQUARE HEAD FOR 125 WOG.
7. LUBRICATED PLUG VALVES SHALL BE LUBRICATED AT THE FACTORY AND SEALANT SHALL BE SUITED FOR NATURAL GAS.
8. PROVIDE SCHEDULE 40 PIPE SLEEVE WHERE PIPE PASSES THROUGH WALLS.
9. PIPING ON THE ROOF SHALL BE SUPPORTED EVERY 10'-0" (AND 2'-0" FROM A CHANGE IN DIRECTION) WITH FABRICATED STEEL PIPE STANDS AND INTEGRAL PIPE CLAMPS FOR SECURING HORIZONTAL PIPING. PIPE STANDS SHALL BE SECURED TO THE ROOF PER THE ROOFING MANUFACTURERS INSTALLATION REQUIREMENTS.
10. PROVIDE 6" LONG DRIP LEGS AT ENDS OF HORIZONTAL RUNS, AT THE BASE OF RISERS AND AT CONNECTIONS TO EQUIPMENT.
11. PLUMBING CONTRACTOR SHALL COORDINATE GAS PIPE ROUTING, GAS METER LOCATIONS, GAS METER AND REGULATOR SIZES AND PRESSURE SETTINGS WITH THE OWNER AND GAS COMPANY BASED ON INDIVIDUAL TENANT FIT-OUT DEMANDS. FOR EXISTING METERS CONTRACTOR SHALL VERIFY WITH THE LOCAL GAS COMPANY THAT THE EXISTING METER CAN HANDLE THE GAS DEMAND FOR THE PROJECT AND SHALL COORDINATE NEW METER INSTALLATION AND PAY ALL FEES ASSOCIATED.

PLUMBING FIXTURE AND CONNECTION SCHEDULE

SYMBOL	DESCRIPTION	SIZE OF CONNECTION TRAP	SS	SV	CW	HW	REMARKS	WATER CONSERVATION
BFP-1	BACKFLOW PREVENTER	–	–	–	3/8"	–	WATTS No. LF7. 1/4" BACKFLOW PREVENTER WITH BRONZE. LEAD FREE.	
TMV-1	THERMOSTATIC MIXING VALVE	–	–	–	1/2"	1/2"	LEONARD MODEL NO 170 BRONZE BODY WITH LOCK TEMPERATURE ADJUSTMENT CAP. SET TEMP. @ 110°.	
WF-1	WATER FILTER	–	–	–	3/4"	–	AQUA PURE MODEL NO AP717	
WC-1	WATER CLOSET	–	4"	2"	1"	–	AMERICAN STANDARD NO. 215AA.104 "CADET" 1.28 GPF 15" VITREOUS CHINA, FLOOR MOUNTED GRAVITY FED WATER CLOSET WITH ELONGATED BOWL. CHURCH 9500C WHITE FRONT SEAT WITH CONCEALED STAINLESS STEEL SELF-SUSTAINING AND EXTERNAL CHECK HINGE.	
L-1	LAVATORY HANDICAPPED	1 1/4"	2"	2"	1/2"	1/2"	AMERICAN STANDARD NO. 9024.000EC "DECORUM" 20" X 18-1/4" VITREOUS CHINA, WALL HUNG MOUNTED LAVATORY, AMERICAN STANDARD NO. 7426801.243 "BELMEADE" AND McGUIRE# 8872 CAST BRASS P-TRAP WITH CLEANOUT PLUG, McGUIRE # 155A CAST BRASS P.O. PLUG WITH OPEN GRID STRAINER AND 17 GAUGE TAILPIECE, McGUIRE # 2165LK SUPPLIES WITH RISER AND WALL ESCUTCHEON. ZURN FLR. MTD. CARRIER/ RECTANGULAR UPRIGHTS. ANGLE SUPPLY AND P-TRAP SHALL BE INSULATED WITH TRAP WRAP BY BROCAR PRODUCTS, INC. OR APPROVED EQUAL.	
MS-1	SERVICE SINK	3"	3"	2"	1/2"	1/2"	FIAT PRODUCTS No. MSB2424 OR APPROVED EQUAL WHITE (24"x24") SERVICE SINK WITH 10" HIGH WALLS, 3" STAINLESS STEEL COMBINATION DOME STRAINER AND LINT BASKET OUTLET, ACID RESISTANT, MOLDED STONE (COLOR AS SPECIFIED BY ARCHITECT). REMOVABLE VINYL-COATED RIM GUARD No. V-70-24. SINK FITTING CHICAGO 897-RCF OR T&S No. B-0665-BSTR ROUGH CHROME PLATED BRASS FINISH, RIGID SPOUT, WALL BRACE, INTEGRAL STOPS, PAIL HOOK, HOSE END, VACUUM BREAKER AND VANDAL PROOF SCREWS. PROVIDE 30" HOSE (MINIMUM) WITH STAINLESS STEEL BRACKET (EQUAL TO STERN - WILLIAMS No. T-35) AND STAINLESS STEEL MOP HANGER (EQUAL TO STERN - WILLIAMS No. T-40). PROVIDE 12" HIGH, 20 GAUGE TYPE 316 STAINLESS STEEL SPLASH GUARDS ON ALL WALLS ADJACENT TO THE SERVICE SINK. PROVIDE AND INSTALL INTERNAL WALL SUPPORTS IN ACCORDANCE WITH THE ARCHITECTS REQUIREMENTS FOR THE WALL BRACE ATTACHMENTS.	
EDF-1	ELECTRIC DRINKING FOUNTAIN	1-1/4"	2"	2"	1/2"	---	HALSEY TAYLOR HTHB-HACDBLSS-NF ADA BARRIER-FREE TWO LEVEL WALL MOUNT FOUNTAIN. 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.	
FD-1	FLOOR DRAIN	3"	3"	2"	1/2"		J.R. SMITH FIGURE No. 2005Y-A06NB-P OR APPROVED EQUAL PAINTED CAST IRON FLOOR DRAIN AND SEEPAGE FLANGE, SIZE AS NOTED ON DRAWINGS, CLAMPING UNIT, QUAD CLOSE TRAP SEAL, AND 6" ROUNDE ADJUSTABLE POLISHED NICKEL BRONZE STRAINER TYPE TOP AND DEEP SEAL TRAP.	
WH-1	WALL HYDRANT	–	–	–	3/4"	–	MIFAB MHY-26-6, NON-FREEZE, ENCLOSED FLUSH, ANTI-CONTAMINATION WALL HYDRANT WITH VACUUM BREAKER, HARDENED STAINLESS STEEL INTERIOR PARTS, 3/4" HOSE CONNECTION, STAINLESS STEEL BOX FACE AND HINGED COVER WITH OPERATING KEY LOCK, OPERATING KEY AND NON-FREEZE VALVE.	
RVB-1	REFRIGERATOR VALVE BOX	–	–	–	1/2"	–	GUY GRAY #BIM-875 10-3/4" X 9" 16GA. STEEL WITH EPOXY FINISH , 3/8" O.D. SWEAT CONNECTION PROVIDE FILTER WHEN MAKING FINAL CONNECTION, AQUA-PURE #AP717	
SK-1	SINK HANDICAPPED	1-1/2"	2"	2"	1/2"	1/2"	ELKAY No. ELUHAD281655 SINGLE COMPARTMENT STAINLESS STEEL UNDERMOUNTED SINK, 18 GAUGE SELF-RIMMING (31" x 16" x 4" DEEP), KOHLER No. K-647 FAUCET, PROVIDE TMV-1, ANGLE SUPPLIES WITH STOP, 1/2" CHROME-PLATED BRASS NIPPLES TO WALL, McGUIRE No. 151-A CRUMB CUP STRAINER, No. 8912 (1-1/2") ADJUSTABLE SEMI-CAST CHROME-PLATED BRASS P-TRAP WITH TUBING WASTE TO WALL AND CHROME-PLATED CAST WALL FLANGE WITH SET SCREW SUPPLIES, AND P-TRAP SHALL BE INSULATED WITH TRAP WRAP BY PLUMBEREX SPECIALTY PRODUCTS,INC OR APPROVED EQUAL.	

WATER HEATER SCHEDULE

MARK	SERVICE	STORAGE IN GALLONS	RECOVERY AT 100° RISE	ELECTRICAL	ELEMENT WATTS	MAKE AND MODEL
EWH-1	ELECTRIC WATER HEATER	20	12 GPH	208/1ø/60Hz	3KW	A.O. SMITH MODEL NO. DEL-20

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
D	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
SANITARY VENT	NO-HUB CAST IRON
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"

SHOCK ARRESTOR SCHEDULE

SYMBOL	DESCRIPTION	P.D.I. FIXTURE UNIT RATING	TYPE NO. PPP
SA-A	SHOCK ARRESTOR	1-11	SC-500
SA-B	SHOCK ARRESTOR	12-32	SC-750
SA-C	SHOCK ARRESTOR	33-60	SC-1000
SA-D	SHOCK ARRESTOR	61-113	SC-1250

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.

PLUMBING NOTES:

1. MEP SPECIFICATIONS SHALL APPLY TO ALL WORK ON THIS DRAWING UNLESS OTHERWISE NOTED.
2. ALL CONNECTIONS BETWEEN PIPES OF DISSIMILAR MATERIALS SHALL BE MADE WITH DIELECTRIC UNIONS. PROVIDE ACCESS PANELS WHERE REQUIRED.
3. CONTRACTOR SHALL NOTIFY OWNER OF ANY REQUIRED SHUT DOWNS AND COORDINATE THESE WITH OWNER. DOWNTIME SHALL BE HELD TO A MINIMUM.
4. CONTRACTOR SHALL COORDINATE ALL WORK CLOSELY WITH EXISTING AND NEW MECHANICAL AND ELECTRICAL ITEMS.
5. ALL PROPOSED CORE DRILL LOCATIONS THROUGH (E) FLOOR SLAB ARE TO BE COORDINATED WITH AND APPROVED BY THE OWNER PRIOR TO CORING.
6. CONTRACTOR SHALL REFER TO BUILDING MANAGEMENT'S "RULES AND REGULATIONS" TO COMPLY WITH BUILDING STANDARDS.
7. COORDINATE PLUMBING FIXTURE SIZES WITH MILLWORK PRIOR TO INSTALLATION. COORDINATE ROUGH-IN ELEVATIONS WITH MOUNTING HEIGHTS.
8. DEMOLISH ANY ABANDONED PVC PIPING IN CEILING SPACE. REPLACE ANY EXISTING PVC PIPING STILL IN SERVICE WITH APPROVED MATERIALS. PROVIDE A SEPARATE LINE ITEM PRICE.
9. NEW DOMESTIC WATER SHUT-OFF VALVES TO BE NIBCO MODEL NO. T-585-66-LF. FURNISH WITH EXTENDED STEM FOR VALVES IN INSULATED LINES.
10. REFER TO ARCHITECTURAL DRAWING FOR EXACT LOCATION OF ALL WALLS AND CHASES.
11. REFER TO RISER DIAGRAMS FOR PIPE SIZES NOT SHOWN ON THE DRAWINGS.
12. PER COMMERCIAL ENERGY CODE, ALL HOT WATER PIPING SHALL BE INSULATED: 12. 1-1/4" AND BELOW 1 1/2" REQUIRED, 1-1/2" AND ABOVE 2" REQUIRED PER TABLE 6.8.3. REFER TO SPECS. FOR ADDITIONAL INFORMATION.

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.

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

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

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E/BE Project Number : 26129.00

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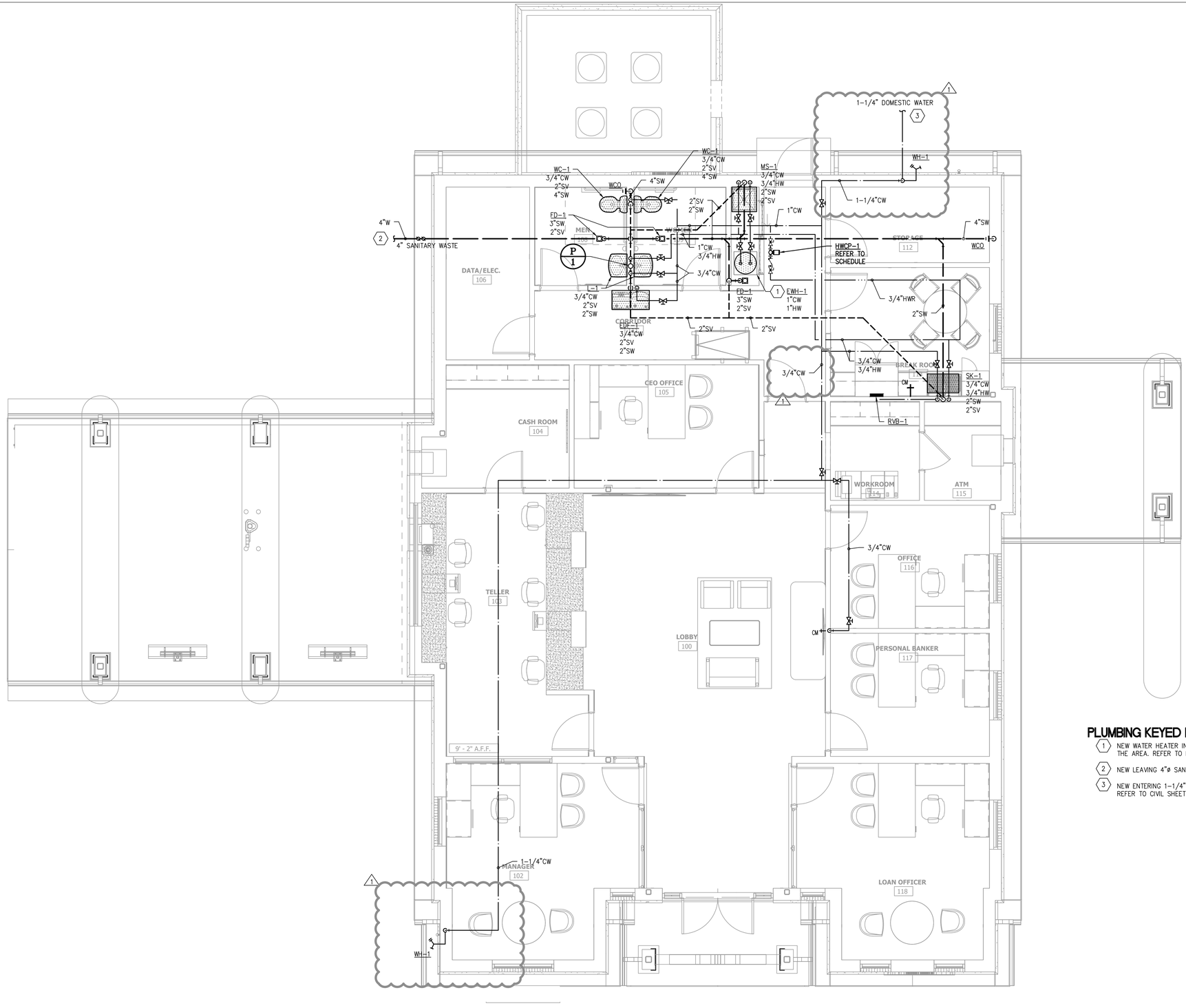
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	90% REVIEW SET	08/20/26
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STATE OF TEXAS
JOSE M. GUERRERO
154536
REGISTERED
PROFESSIONAL ENGINEER

DRAWING TITLE
PLUMBING INFORMATION

SHEET NO.
P-0.10



PLUMBING KEYED NOTES:

1. NEW WATER HEATER INSTALLED WITH WALL BRACING. COORDINATE WITH MEP IN THE AREA. REFER TO DETAILS.
2. NEW LEAVING 4"ø SANITARY WASTE. REFER TO CIVIL SHEET FOR CONTINUATION.
3. NEW ENTERING 1–1/4"ø DOMESTIC WATER SERVICE ENTRY. REFER TO DETAILS. REFER TO CIVIL SHEET FOR CONTINUATION.

01 PLUMBING PLAN
SCALE: 1/4"=1'–0"

N

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

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1	ADDENDUM A	09/18/26

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STATE OF TEXAS
JOSE M. GUERRERO
154536
REGISTERED PROFESSIONAL ENGINEER
09/18/2026

DRAWING TITLE
PLUMBING PLAN

SHEET NO.
P-1.10

MS-1

L-1

SK-1

FIAT PRODUCTS

MOLDED STONE® MOP SERVICE BASIN MSB2424 & MSB3624

MOLDED STONE®
MOP SERVICE BASIN



Shown: MSB2424

❑ **MSB2424**
- Molding done in matched metal dies under heat and pressure resulting in a one-piece homogeneous product.
- The unit has 10" high walls with no less than 1" wide shoulders.
- The stainless steel drain body is designed for a caulk connection or QDC-3 joint to connect to a 3" drain pipe.
- Stainless steel strainer included.
- Made in U.S.A.

Nominal Dimensions:
24" x 24" x 10"
(610 x 610 x 254mm)

Shipping Weight:
37lbs. (16.8 Kg)

❑ **MSB3624**
- Molding done in matched metal dies under heat and pressure resulting in a one-piece homogeneous product.
- The unit has 10" high walls with no less than 1" wide shoulders and an integrally molded shelf 10 9/16" wide where indicated.
- The stainless steel drain body is designed for a caulk connection or QDC-3 joint to a 3" drain pipe.
- Stainless steel strainer included.
- Made in U.S.A.

Nominal Dimensions:
36" x 24" x 10"
(914 x 610 x 254mm)

Shipping Weight:
45lbs. (20.4 Kg)

Compliance Certifications -
Meets or Exceeds the Following Specifications:
- IAPMO / ANSI Z124.6-2007
- ASME A112.18.2 / CSA B125.2
- CSA B45.5

SEE REVERSE FOR ROUGH-IN DIMENSIONS

Optional Components:
- ❑ **830AA** Service Faucet:
  - Chrome plated with vacuum breaker, integral stops, adjustable wall brace, pail hook and 3/4" hose thread on spout
- ❑ **832AA** Hose & Hose Bracket
- ❑ **MSG2424 & MSG3624** Stainless Steel Wall Guard
- ❑ **E77-AA** Vinyl Bumper Guard
- ❑ **E88-AA** Stainless Steel Bumper Guard
- ❑ **STR1000** Dome Strainer
- ❑ **QDC-3XH** 3" Quick Drain Connector for attaching heavy cast iron soil pipe and Schedule 40 steel pipe to the drain body. Order separately.
- ❑ **QDC-3SN** 3" Quick Drain Connector for attaching hubless cast iron pipe and service weight cast iron soil pipe to the drain body. Order separately.
- ❑ **833AA** Silicone Sealant
- ❑ **889CC** Mop Hanger
- ❑ **889CCSHELF** Stainless Steel Shelf:
  - Stainless steel rod, 3 large open hooks, three spring loaded rubber grips to hold mop handles

FIAT PRODUCTS

CUSTOMER SERVICE
833-549-2887
www.fiatproducts.com

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MSB2424/3624_Spec-C

American Standard

DECORUM® 20" x 18-1/4" WALL-HUNG LAVATORY WITH EVERCLEAN®

VITREOUS CHINA

BARRIER FREE

DECORUM® 20" x 18" WALL-HUNG LAVATORY WITH EVERCLEAN®

- 20" x 18" vitreous china lavatory with EverClean included
- Available with rear overflow or less overflow
- Recessed self-draining deck with minimal backsplash
- For concealed arm or wall support (wall hanger included)
- ADA and TAS compliant
- Shown with drain grid (sold separately)



9024.004EC shown

❑ **9024.000EC** No faucet holes
❑ **9024.001EC** Center hole only (CHO)
❑ **9024.021EC** CHO with left hand soap dispenser
❑ **9024.011EC** CHO with right hand soap dispenser
❑ **9024.901EC** CHO less overflow
❑ **9024.921EC** CHO with left hand soap dispenser less overflow
❑ **9024.911EC** CHO with right hand soap dispenser less overflow
❑ **9024.004EC** 4" centers
❑ **9024.024EC** 4" centers with left hand soap dispenser
❑ **9024.014EC** 4" centers with right hand soap dispenser
❑ **9024.904EC** 4" centers less overflow
❑ **9024.924EC** 4" centers with left hand soap dispenser less overflow
❑ **9024.914EC** 4" centers with right hand soap dispenser less overflow
❑ **9024.008EC** 8" centers
❑ **9024.908EC** 8" centers less overflow

Nominal Dimensions:
464mm (18-1/4") deep, 508mm (20") wide

Bowl sizes:
354mm (13-15/16") wide, 325mm (12-13/16") front to back, 127mm (5") deep

SEE NEXT PAGE FOR ROUGHING-IN DIMENSIONS

To Be Specified:
❑ Color: ❑ White
❑ Faucet:
❑ Faucet Finish:
❑ Supplies:
❑ 1-1/4" Trap:

* See faucet section for additional models available

Compliance Certifications -
Meets or Exceeds the Following Specifications:
- ASME A112.19.2 for Vitreous China Fixtures

MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES - CHECK LOCAL CODES.
Top of front rim mounted 864mm (34") from finished floor.

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spec_9024 Decorum Wall-Hung Lav w/EC Rev. 4 10/20

ELKAY SPECIFICATIONS

Lustertone® Classic Stainless Steel 30-1/2" x 18-1/2" x 5-3/8" Single Bowl Undermount ADA Sink

Model(s) ELUHAD281655

PRODUCT SPECIFICATIONS

Lustertone® Classic Stainless Steel, 30-1/2" x 18-1/2" x 5-3/8" Single Bowl Undermount ADA Sink. Sink is manufactured from 18 gauge 304 Stainless Steel with a Lustrous Satin finish, Rear Center drain placement, and Bottom only pads.

Installation Type:	Undermount
Material:	304 Stainless Steel
Finish:	Lustrous Satin
Gauge:	18
Sound Deadening:	Bottom only pads
Number of Bowls:	1
Sink Dimensions:	30-1/2" x 18-1/2" x 5-3/8"
Bowl 1 Dimensions:	28" x 16" x 5-3/8"
Drain Size:	3-1/2" (89mm)
Drain Location:	Rear Center
Minimum Cabinet Size:	36"
Mounting Hardware:	Undermount brackets sold separately
Template Included:	Yes
Cutout Template #:	1000001414

Template is available for download at elkay.com. CAD software will be required to open the template.



A Century of Tradition and Quality.
For more than 100 years, Elkay has been making innovative products and providing exceptional customer care. We take pride in offering plumbing products that make life easier, inspire change and leave the world a better place.

KBB READERS' CHOICE WINNER

MADE IN THE USA

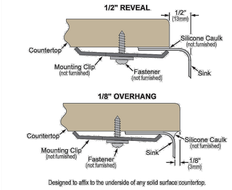
Product Compliance: ADA & ICC A117.1
ASME A112.19.3/CSA B45.4

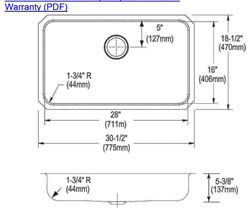
Sinks are listed by IAPMO® as meeting the applicable requirements of the Uniform Plumbing Code®, International Plumbing Code®, and National Plumbing Code of Canada.

Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards.

Clean and Care Manual (PDF)
Installation Instructions (PDF) - 1000005239
Warranty (PDF)

Installation Profile:





PART:_____QTY: _____
PROJECT:_____
CONTACT:_____
DATE:_____
NOTES:_____
APPROVAL:_____

In keeping with our policy of continuing product improvement, Elkay reserves the right to change product specifications without notice. Please visit elkay.com for the most current version of Elkay product specification sheets. This specification describes an Elkay product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked. Latest version of the spec sheet available: https://www.elkayfiles.com/spec-sheets/ELUHAD281655_spec.pdf

Elkay REV 07092026
ELUHAD281655

1-800-476-4106 | CustCare@Elkay.com
Patent zurn-elkay.com/patents

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ELUHAD281655_spec.pdf

Manual Sink Faucets 897-RCF

CHICAGO FAUCETS
Geberit Group

Product Type

Wall-mounted manual faucet with 8" centers

Features & Specifications

- Handles include color-coded index
- Integral supply stops
- 8" body, adjustable arms 7-5/8" - 8-3/8" centers
- Vandal Proof 2-3/8" Lever handle (pair)
- Ceramic 1/4-turn operating cartridge, right-hand
- Ceramic 1/4-turn operating cartridge, left-hand
- Arm, 3/16" offset
- Vacuum breaker assembly
- Complies with the requirements of the Buy American Act of 1933.
- CFNow! Item Ships in 3 Days

Performance Specification

- Rated Operating Pressure: 20-125 PSI
- Rated Operating Temperature: 40-140°F (Note: 180°F max. during temporary high-temperature system flush)

Warranty

- 5-Year Limited Cartridge Warranty
- Lifetime Limited Faucet Warranty
- 1-Year Limited Finish Warranty

Codes & Standards

- S ASME A112.18.1/CSA B125.1
- A ADA ANSI/ICC A117.1
- ASSE 1001 Compliant

Job Name _____
Item Number _____
Section/Tag _____
Model Specified _____
Architect _____
Engineer _____
Contractor _____
[ ] Submitted as Shown [ ] Submitted with Variations
Date _____



BUY AMERICAN ACT COMPLIANT

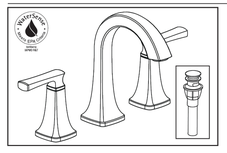
2100 South Clearwater Drive
Des Plaines, IL
P: 847/803-5000
F: 847/803-5454
Technical: 800/TEC-TRUE
www.chicagofaucets.com

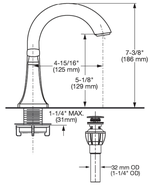
Last Revision: 07/16/2026 • Product specifications subject to change without notice

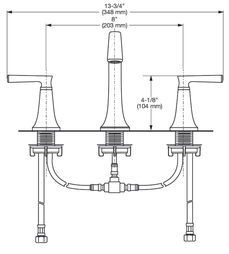
American Standard

Belmeade™

2-Handle Widespread Bath Faucet







MODEL NUMBER:
❑ **7426801.002** Chrome finish.
❑ **7426801.295** Brushed Nickel finish.
❑ **7426801.243** Matte Black finish.

Effortless elegance, leading-edge style and thoughtful innovation combine to make American Standard faucets the perfect choice for those who are unwilling to sacrifice style for performance.

GENERAL DESCRIPTION:
Non-metal valve bodies with reinforced brass sleeves and flexible hose connections for 6" to 12" (152 to 305 mm) installations. 1/4 turn washerless ceramic disc valve cartridges. Drain body with 1-1/4 inch (32 mm) tail piece. 1.2 gpm/4.5 L/min. maximum flow rate.

PRODUCT FEATURES:
Easy Install Push Drain: Easy to install, operate and remove clogs
Metal Construction: Built for durability and dependability
Ceramic Disc Valve Cartridges: Lifetime of drip-free performance
Limited Lifetime Warranty: Reliable function, lustrous finish for life
WaterSense Certified: Saves water without sacrificing performance
Choice of Finishes: Chrome, Brushed Nickel, or Matte Black







SUGGESTED SPECIFICATION:
2-Handle widespread bath faucet shall feature metal spout. Shall also feature 1/4 turn washerless ceramic disc valve cartridges. Shall also feature Speed Connect Installation System. Shall also feature a non-metal Easy Install Push Drain body. Fitting shall be American Standard Model # 7426801.002, 7426801.295, 7426801.243.

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4/22

KOHLER. Faucets

Simplice®

Pull-Down Kitchen Sink Faucet
K-647



ADA | **CSA B651**

Features
- Sweep® spray creates a wide, forceful blade of water for superior cleaning.
- DockNetik® magnetic docking system securely locks the sprayhead into place when not in use.
- Ceramic disc valves exceed industry longevity standards, ensuring durable performance for life.
- ProMotion® technology's light, quiet braided hose and swiveling ball joint make the pull-down sprayhead easier and more comfortable to use.
- MasterClean™ sprayface features an easy-to-clean surface that withstands mineral buildup.
- High-arch gooseneck spout and 360-degree spout rotation offer superior clearance for filling pots and cleaning.
- Temperature memory allows faucet to be turned on and off at the temperature set during prior usage.
- 1.5 gpm (5.7 lpm) maximum flow rate at 60 psi (4.1 bar).
- Three-function pull-down sprayhead with touch control allows you to switch from stream to Sweep® spray to Boost Technology.

Material
- Premium metal construction for durability and reliability.
- KOHLER finishes resist corrosion and tarnishing.

Installation
- Two-hole installation.
- Flexible supply lines simplify installation.
- Remote valve configuration allows you to install the handle in an easy-to-access location.

Recommended Products/Accessories
K-77685 Single-Cartridge Water Filtration System
K-77686 Double-Cartridge Water Filtration System
K-77687 single replacement filter cartridge
K-77688 Replacement Filter Cartridges, Two-Pack
K-23723 Faucet cleaner

Codes/Standards
ASME A112.18.1/CSA B125.1
NSF/ANSI 61
NSF/ANSI 372
DOE - Energy Policy Act 1992
California Energy Commission (CEC)
ADA
ICC/ANSI A117.1
CSA B651

KOHLER® Faucet Lifetime Limited Warranty
See website for detailed warranty information.

Available Colors/Finishes
Color tiles intended for reference only.

Color	Code	Description
	CP	Polished Chrome
	VS	Vibrant® Stainless
	BL	Matte Black

1-800-4KOHLER (1-800-456-4537)
Kohler Co. reserves the right to make revisions without notice to product specifications.
For the most current Specification Sheet, go to www.kohler.com.
4-23-2020 06:23 - US/CA/MX

THE BOLD LOOK OF KOHLER.

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ARCHITECTURE | DESIGN | CONSTRUCTION
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DRAWING TITLE
PLUMBING SPEC SHEETS

SHEET NO.
P-2.10

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

WC-1

American Standard

BARRIER FREE

CADET® PRO™ RIGHT HEIGHT® ELONGATED TOILET

VITREOUS CHINA

CADET® PRO™ RIGHT HEIGHT® ELONGATED TOILET



☐ **215AA.104**
- Features the **Cadet® Flushing System**
- Vitreous china
- High Efficiency Toilet (HET), ultra-low consumption (4.8 Lpf/1.28 gpf), utilizes 20% less water
- Meets EPA WaterSense® criteria
- Trade exclusive tank
- PowerWash® rim scrubs bowl with each flush
- Robust metal trip lever & metal shank fill valve
- Includes EZ-Install Tools w/color match bowl caps
- EverClean® surface included
- 3" flush valve
- Fully-glazed 2-1/8" trapway
- 16-1/2" rim height for accessible applications
- 12" (305mm) rough-in
- Generous 9" x 8" water surface area
- Chrome finish trip lever is supplied
- 1,000g MaP Score** at 1.28 gpf
- 5 year warranty

☐ **215AA.105** Same as above except with trip lever on right side
☐ **3517A.101** Right Height® Elongated Bowl
☐ **4188A.104** Tank

Nominal Dimensions:
767 x 441 x 771mm (30-1/8" x 17-3/8" x 30-3/8")

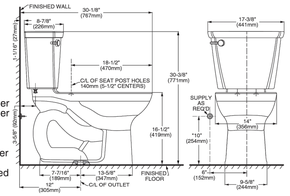
Fixture only, seat and supply sold separately

Alternative Tank Configurations Available:
☐ **4188A.154** Tank complete with Aquaguard Liner
☐ **4188A.155** Tank complete with Aquaguard Liner and trip lever located on right side
☐ **4188A.164** Tank complete with tank cover locking device
☐ **4188A.174** Tank complete with Aquaguard Liner and tank cover locking device
☐ **4188A.105** Tank complete with trip lever located on right side
☐ **4188A.165** Tank complete with tank cover locking device and trip lever located on right side

Compliance Certifications -
Meets or Exceeds the Following Specifications:
- ASME A112.19.2-2008/CSA B45.1-08 for Vitreous China Fixtures
- US EPA WaterSense® Specification for HETs

** Maximum Performance (MaP) testing performed by IAPMO R&T Lab. MaP Report conducted by Veritec Consulting, Inc. and Koeller and Company.

To Be Specified:
☐ Color: ☐ White ☐ Bone ☐ Linen ☐ Black
☐ Seat: #5321.110 EverClean® Elongated Seat with Slow Close Snap-Off Hinges
☐ Supply with stop:



NOTES:
THIS TOILET IS DESIGNED TO ROUGH-IN AT A MINIMUM DIMENSION OF 305MM (12") FROM FINISHED WALL TO C/L OF OUTLET
SUPPLY NOT INCLUDED WITH FIXTURE AND MUST BE ORDERED SEPARATELY.
* DIMENSION SHOWN FOR LOCATION OF SUPPLY IS SUGGESTED.

IMPORTANT: Dimensions of fixtures are nominal and may vary within the range of tolerances established by ANSI Standard A112.19.2.
These measurements are subject to change or cancellation. No responsibility is assumed for use of superseded or voided pages.

MEETS THE AMERICANS WITH DISABILITIES ACT GUIDELINES AND ANSI A117.1 REQUIREMENTS FOR ACCESSIBLE AND USABLE BUILDING FACILITIES-CHECK LOCAL CODES.

WaterSense labeled when applied for

WATER EFFICIENT PRODUCT

Cadet® PRO

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EDF-1

Halsey Taylor

Model HTHB-HACDBLSS-NF

HydroBoost® Bottle Filling Station & Bi-Level ADA Cooler Non-Filtered Non-Refrigerated Stainless

TAG_____

PRODUCT SPECIFICATIONS

HydroBoost® Bottle Filling Station & Bi-Level ADA Cooler Non-Filtered Non-Refrigerated Stainless. Features shall include Antimicrobial*, Green Counter™, Laminar Flow, Mechanically Activated, Real Drain, Sanitary Sensor Activated. Furnished with Double Bubbler.™ Electronic Bottle Filler Sensor with Mechanical Front and Side Bubbler Pushbar activation. Product shall be Wall Mount (On Wall), for Indoor applications, serving 2 station(s). Unit shall be certified to UL 399 and CAN/CSA C22.2 No. 120.

Special Features:	Antimicrobial, Green Counter™, Laminar Flow, Mechanically Activated, Real Drain, Sanitary Sensor Activated
Finish:	Stainless Steel (S)
Power:	115V/60Hz
Bubbler Style:	Double Bubbler ™
Activation by:	Electronic Bottle Filler Sensor with Mechanical Front and Side Bubbler Pushbar
Mounting Type:	Wall Mount (On Wall)
Chilling Capacity:	Non-refrigerated
Full Load Amps	2
Rated Watts:	15
Dimensions (L x W x H):	36-1/4" x 18-5/8" x 46-1/4"
Approx. Shipping Weight:	89 lbs.
Installation Location:	Indoor
No. of Stations Served:	2

- Mechanically-Activated unit continues to supply water in event of service disruptions.
- Touchless, sensor-activated units are designed for easy use.
- Green Counter: Informs user of number of 20 oz. plastic water bottles saved from waste.
- Laminar flow provides clean fill with minimal splash.
- Key plastic components are manufactured with silver ion antimicrobial agent helping to provide clean, stain- and odor-free surfaces.
- Real Drain System eliminates standing water.
- Exclusive Double Bubbler which projects two separate streams that converge to form a fuller, more satisfying drink.

*Antimicrobial claims are in reference to components manufactured antimicrobial agents, helping to provide clean, stain- and odor-free surfaces.



Included with Product: **Water Cooler (8740002083-HTHB), Bottle Filler (HTHB-HAC-NF)**

▼ Ships in multiple boxes.
A Century of Tradition and Quality.
For more than 100 years, Elkay has been making innovative products and providing exceptional customer care. We take pride in offering plumbing products that make life easier, inspire change and leave the world a better place.

MADE IN USA

PRODUCT COMPLIANCE
ADA & ICC A117.1
ASME A112.19.3/CSA B45.4
CAN/CSA C22.2 No. 120
GreenSpec®
NSF/ANSI 61 (Qs1) & 372 (lead free)
UL 399

c UL us · NSF CERTIFIED · GreenSpec LISTED · www.GreenSpec.com

Complies with ADA & ICC A117.1 accessibility requirements when installed according to the requirements outlined in these standards. Installation may require additional components and/or construction features to be fully compliant. Consult the local Authority Having Jurisdiction if necessary.
Installation Instructions (PDF) - 1000001743

Electrical components and water system are warranted for 12 months from date of installation. **Warranty pertains to drinking water applications only. Non-drinking water applications are not covered under warranty.**
Warranty (PDF)

PART:_____QTY: _____
PROJECT:_____
CONTACT:_____
DATE:_____
NOTES:_____
APPROVAL:_____

In keeping with our policy of continuing product improvement, Halsey Taylor reserves the right to change product specifications without notice. Please visit Halseytaylor.com for the most current version of Halsey Taylor product specification sheets. This specification describes a Halsey Taylor product with design, quality, and functional benefits to the user. When making a comparison of other producers' offerings, be certain these features are not overlooked.

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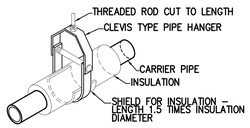
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STATE OF TEXAS
JOSE M. GUERRERO
154536
REGISTERED PROFESSIONAL ENGINEER

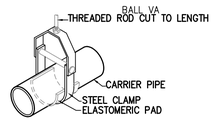
DRAWING TITLE
PLUMBING SPEC SHEETS

SHEET NO.
P-2.20

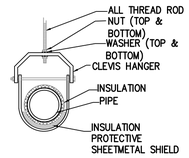
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CLEVIS TYPE PIPE HANGER FOR INSULATED PIPE



CLEVIS TYPE PIPE SUPPORT FOR NONMETALLIC PIPE



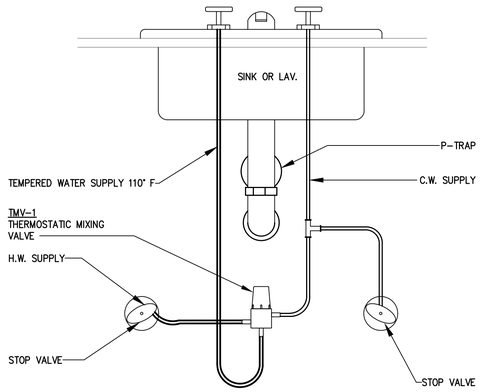
TYPICAL CLEVIS HANGER DETAIL

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.

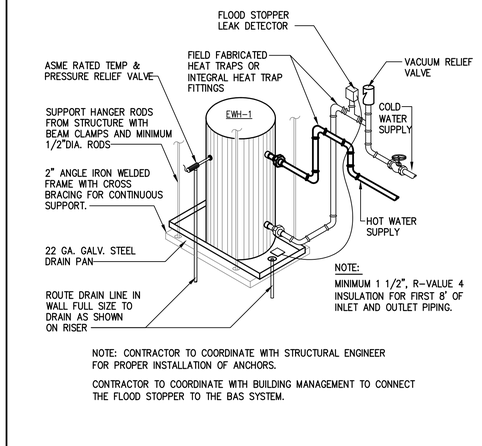
CLEVIS PIPE HANGER SUPPORT DETAIL 01

SCALE: NONE



THERMOSTATIC MIXING VALVE TMV-1 02

SCALE: NONE

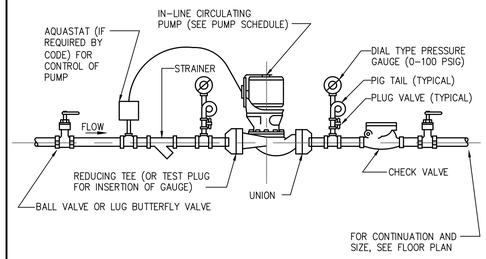


NOTE: CONTRACTOR TO COORDINATE WITH STRUCTURAL ENGINEER FOR PROPER INSTALLATION OF ANCHORS.

CONTRACTOR TO COORDINATE WITH BUILDING MANAGEMENT TO CONNECT THE FLOOD STOPPER TO THE BAS SYSTEM.

ELECTRICAL WATER HEATER DETAIL 03

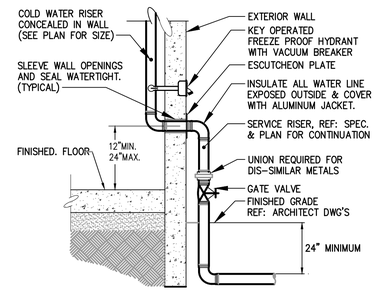
SCALE: NONE



TS-1

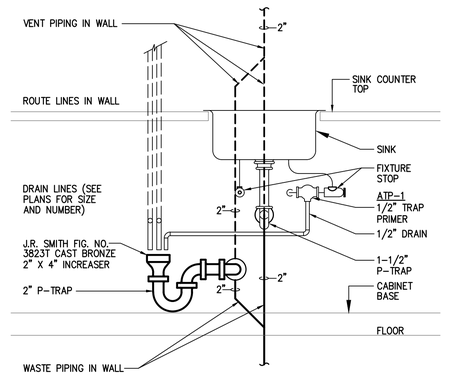
TIME SWITCH OPERATION:

1. TIME SWITCH TO OPERATE DURING NORMAL OPERATIONS UNDER A PRESET SCHEDULE.
2. TIME SWITCH TO TURN ON AND OFF PUMP MOTORS ACCORDING TO THE SET SCHEDULE



DOMESTIC WATER ENTRY DETAIL 04

SCALE: NONE



EXTERIOR CLEANOUT 05

SCALE: NONE

IN-LINE CIRCULATING PUMP 06

SCALE: NONE

WATER ENTRY SERVICE DETAIL 07

SCALE: NONE

INDIRECT WASTE PIPING DETAIL 03

SCALE: NONE

1

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REVISIONS

MARK	DESCRIPTION	DATE
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	90% REVIEW SET	08/20/26
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1	ADDENDUM A	09/18/26

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STATE OF TEXAS
JOSE M. GUERRERO
154536
LICENSED PROFESSIONAL ENGINEER
09/18/2026

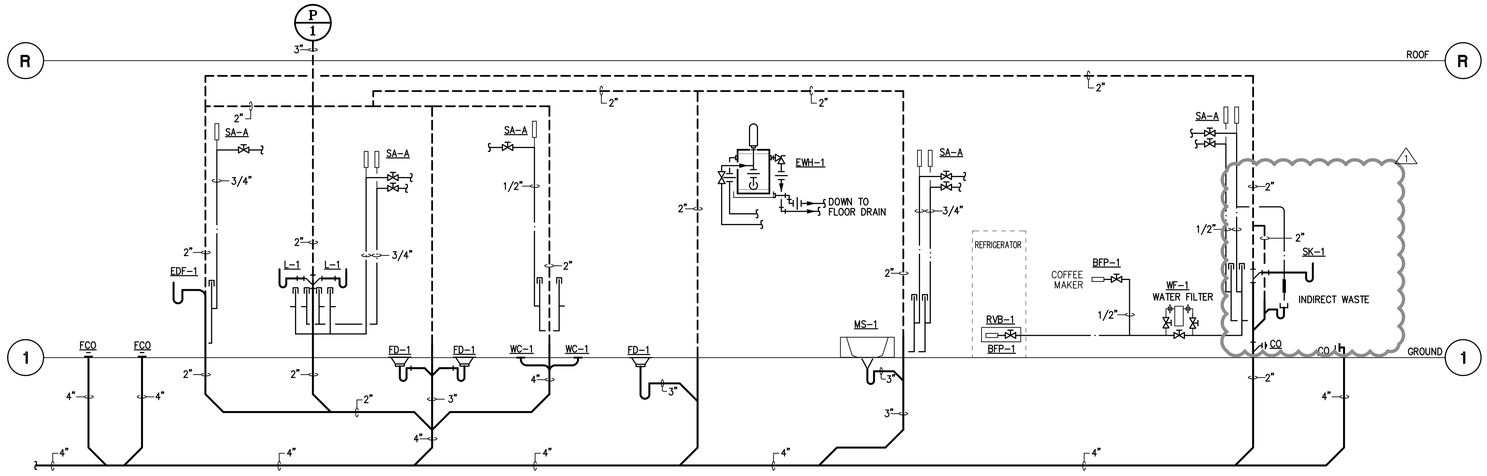
DRAWING TITLE

PLUMBING DETAILS

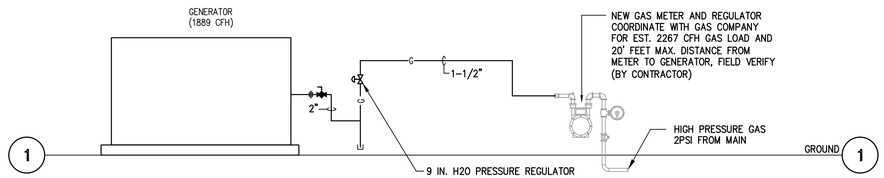
SHEET NO.

P-3.10

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01 PLUMBING RISER DIAGRAM
SCALE: NONE



02 PLUMBING GAS RISER DIAGRAM
SCALE: NONE

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1	ADDENDUM A	09/18/26

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09/18/2026

DRAWING TITLE
PLUMBING RISERS

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