

ISSUED BID & PERMIT



T-1.00	TITLE SHEET
D-1.00	DEMOLITION PLAN

A-0.00	ACCESSIBILITY ROUTE COMPLIANCE
A-0.10	ACCESSIBILITY ELEMENT COMPLIANCE
A-1.10	FLOOR PLAN
A-2.00	SCHEDULES/PARTITION TYPES
A-4.00	REFLECTED CEILING PLAN
A-10.00	INTERIOR ELEVATIONS
A-10.01	INTERIOR ELEVATIONS
A-12.00	FINISHED FLOOR
A-14.00	INTERIOR & EXTERIOR SIGNAGE

MEP-1.00	MEP SPECIFICATIONS
MEP-2.00	MEP SPECIFICATIONS
MEP-3.00	MEP SPECIFICATIONS
M-1.00	MECHANICAL INFORMATION
M-1.10	MECHANICAL INFORMATION
M-2.10	MECHANICAL DEMOLITION PLAN
M2.01	MECHANICAL PLAN
M3.00	MECHANICAL DETAILS
M3.10	MECHANICAL DETAILS

E-1.00	ELECTRICAL INFORMATION
E-2.00	ELECTRICAL LIGHTING PLAN
E-3.00	ELECTRICAL POWER PLAN
E-4.00	ELECTRICAL SCHEDULES

P-1.00	PLUMBING INFORMATION
P-2.00	PLUMBING PLANS
P-3.00	PLUMBING DETAILS

LEGAL DESCRIPTION
RES B BLK 1 DEER PARK WALMART

BUILD-OUT OF AN APPROXIMATE 2,560 SF LEASE SPACE INCLUDING SUITES B AND C IN THE DEER PARK STATION RETAIL CENTER AT 9001 SPENCER HIGHWAY, DEER PARK, TEXAS 77571.

2024 IBC WITH CITY OF DEER PARK AMENDMENTS
2023 NEC WITH CITY OF DEER PARK AMENDMENTS
2024 IPC WITH CITY OF DEER PARK AMENDMENTS
2024 IFC WITH CITY OF DEER PARK AMENDMENTS
2024 IECC WITH CITY OF DEER PARK AMENDMENTS
2024 IMC WITH CITY OF DEER PARK AMENDMENTS

OCCUPANCY TYPE: B-BUSINESS
CONSTRUCTION TYPE:

ABBR	DEFINITION	ABBR	DEFINITION
AC	AIR CONDITIONER	INCL	INCLUDING
ACT	ACTUATION	INSULATION	INSULATION
ADD	ADDITIONAL	INTERIOR	INTERIOR
ADJ	ADJACENT	JAN	JANITOR
AF	ABOVE FINISH FLOOR	JANICLOS	JANITOR'S CLOSET
AFC	AT FINISH CEILING	JOINT	JOINT
ALUM	ALUMINUM	LP	LOW POINT
ARCH	ARCHITECTURAL	LAM	LAMINATED
BD	BOARD	LA	LAVATORY
BF	BELOW FINISH FLOOR	LTG	LIGHTING
BKG	BUILDING	MAX	MAXIMUM
BLK	BLOCKING	MBM	METAL BUILDING MANUFACTURER
BR	BREAST	MECH	MECHANICAL
BRG	BOTTOM OF	MEMB	MEMBRANE
BRG	BEARING	MFR	MANUFACTURER
CB	CABINETS	MINI	MINIMUM
CIP	CAST IN-PLACE	MISC	MISCELLANEOUS
CJ	CONTROL JOINT	MASONRY	MASONRY OPENING
CL	CENTERLINE	MTL	METAL
CLG	CEILING	NIC	NOT IN CONTRACT
CLR	CLEAR	NUM	NUMBER
CLO	CLOSET	NTS	NOT TO SCALE
CMJ	CONCRETE MASONRY UNIT	OH	OVERHEAD DOOR
CONT	CONTINUOUS	OPNG	OPENING
CONC	CONCRETE	OPP	OPPOSITE
CP	CONTINUOUS	OPPHD	OPPOSITE HAND
CPT	CERAMIC TILE	PART	PARTITION
DET	DETAIL	PREC	PRECAST
DF	DRINKING FOUNTAIN	PENB	PRE-ENGINEERED METAL BUILDING
DIA	DIAMETER	PLM	PLASTIC LAMINATE
DN	DOWN	PT	PRESSURE TREATED
DR	DOOR	PTD	PAINTED
DWG	DRAWING	PVC	POLYVINYL CHLORIDE
E	EACH	QT	QUARRY TILE
EJ	EXPANSION JOINT	QTY	QUANTITY
EL	ELECTRICAL	R	RADIUS OR RISER
ELC	ELEVATOR	RA	RETURN AIR
ELEV	ELEVATION OF ELEVATOR	RD	ROOF DRAIN
EXT	EXTERIOR	REF	REFERENCE
EQ	EQUIPMENT	RENF	REINFORCED OR REINFORCED
EQUIP	EQUIPMENT	REQ	REQUIRED
EXIST	EXISTING	REV	REVISION
EX	EXISTING	RM	ROOM
FDN	FOUNDATION	RO	ROUGH OPENING
FE	FIRE EXTINGUISHER	RTU	ROOF TOP UNIT
FE	FIRE EXTINGUISHING CABINET	SECT	SECTION
FF	FINISH FLOOR	SIM	SIMILAR
FFE	FINISH FLOOR ELEVATION	SPEC	SPECIFICATION
FF	FINISH FLOOR TRANSITION	SQ	SQUARE
FIN	FINISH	STSL	STAINLESS STEEL
FIX	FIXTURE	STD	STANDARD
FR	FIRE-RATED	STEEL	STEEL
FRP	FIBERGLASS REINFORCED PLASTIC	STRUC	STRUCTURAL
FRT	FIRE RETARDANT TREATED	SUSP	SUSPENDED
FT	FOOT	TREAD	TREAD
FV	FIELD VERIFY	TBO	TO BE DETERMINED OR TACKBOARD
GA	GAUGE	TDRN	TRENCH DRAIN
GALV	GALVANIZED	TO	TO TOP OF
GC	GENERAL CONTRACTOR	TOW	TOP OF CONCRETE
GL	GLOSS	TQ	TOP OF STEEL
GYP BD	GYPSUM BOARD	TUC	TOP OF WALL
HG	HANDICAP ACCESSIBLE	THK	THICK
HWD	HARDWARE	TYP	TYPICAL
HC	HEIGHT	UNLESS	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	WIND	WINDOW
IN	INCH	WFL	WIDE FLANGE
		WFR	WATERPROOFING

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

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

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.

15810 PARK TEN PLACE, SUITE 300
HOUSTON, TEXAS 77084
713-465-4650

EBE, INC.
12603 SOUTHWEST FREEWAY
STAFFORD, TEXAS 77477



9001 Spencer Highway

Deer Park, Texas 77571

Suites B & C

Project Number : 8985

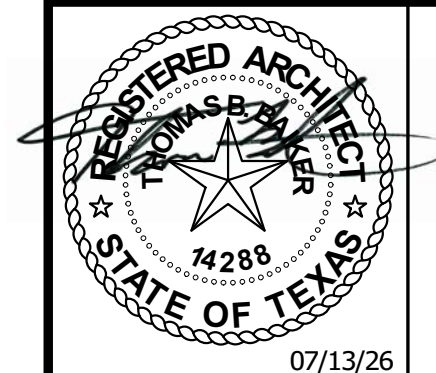
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REVISIONS

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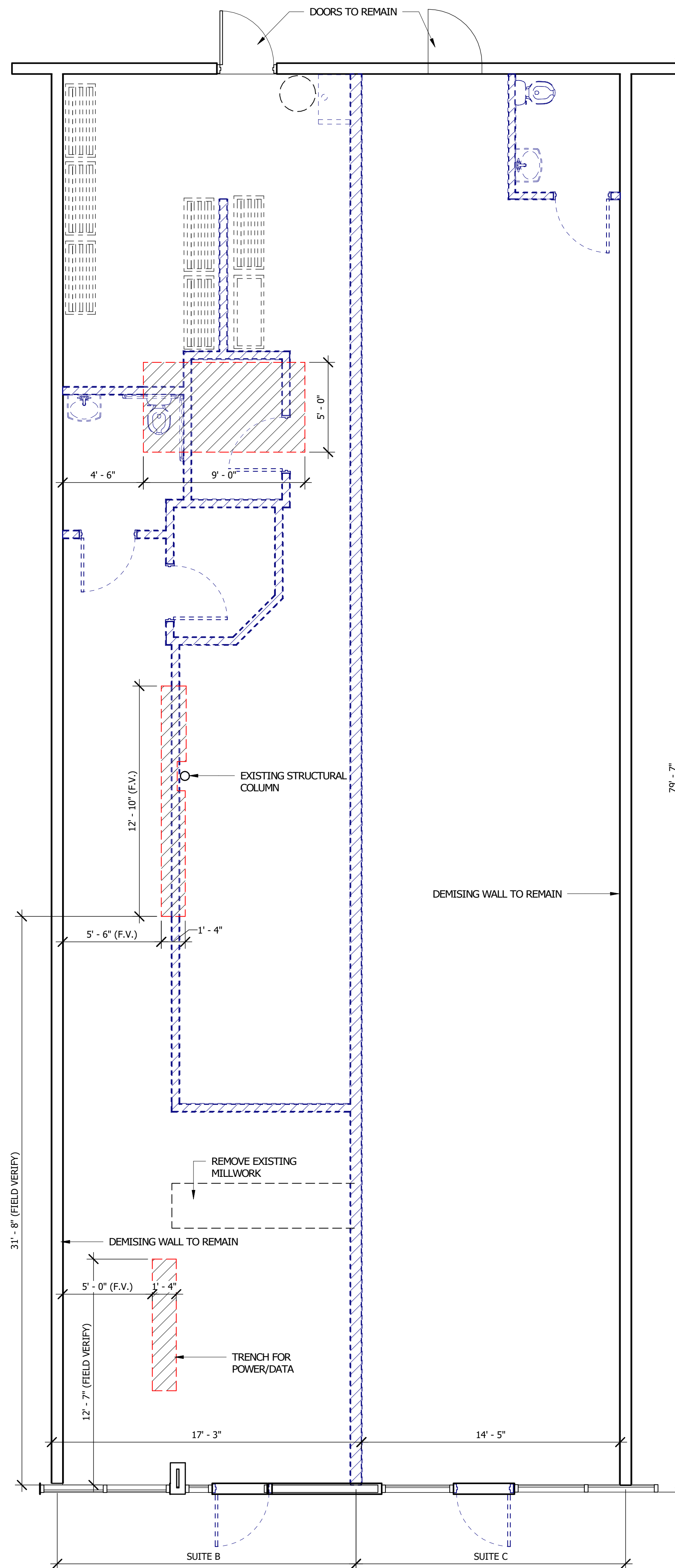
DEMOLITION PLAN

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CHECKED BY _____ Check

APPROVED BY Appro

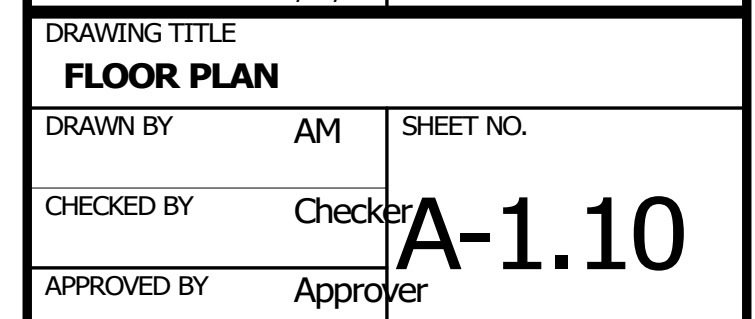
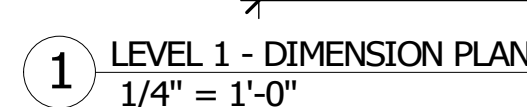
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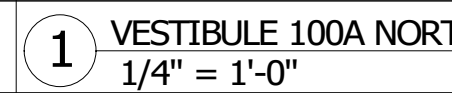
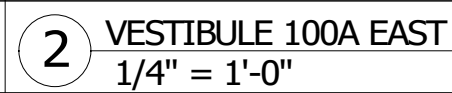
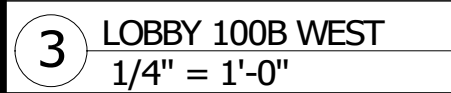
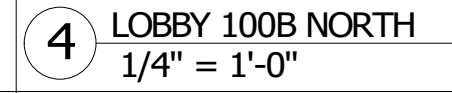
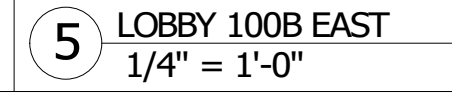
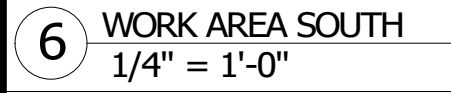
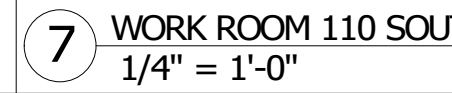
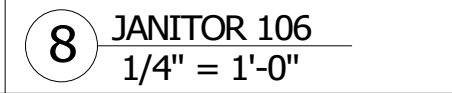
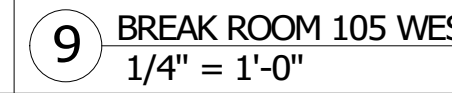
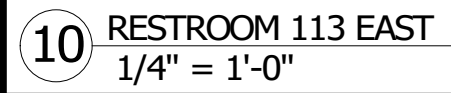
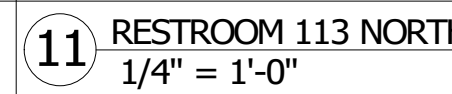
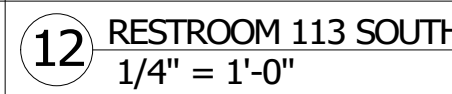
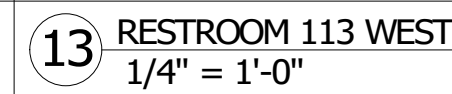
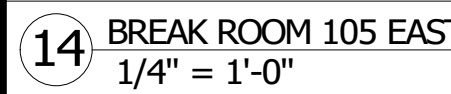
NORTH



1 LEVEL 1 - EXISTING & DEMO
1/4" = 1'-0"



A-1.10

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DRAWING TITLE		A-10.00
INTERIOR ELEVATIONS		
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APPROVED BY	Approver	SHEET NO.

A-10.00



9001 Spencer Highway

Deer Park, Texas 77571

Suites B & C

Project Number : 8985

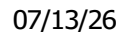
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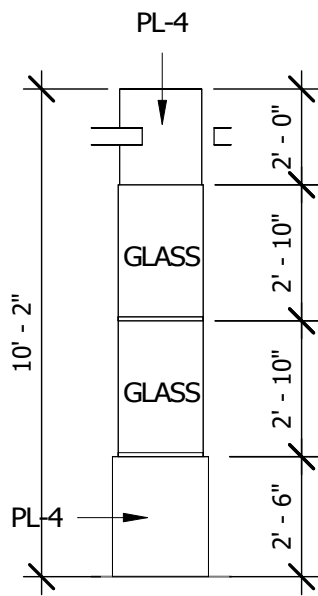
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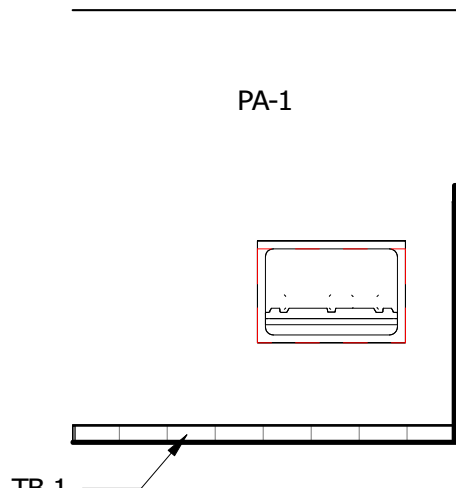
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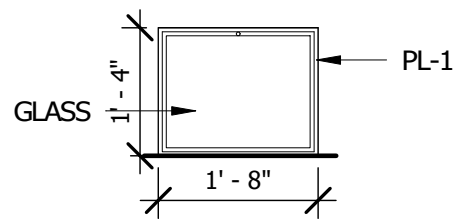
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8 DISPLAY CASE (LEFT VIEW)
1/4" = 1'-0"

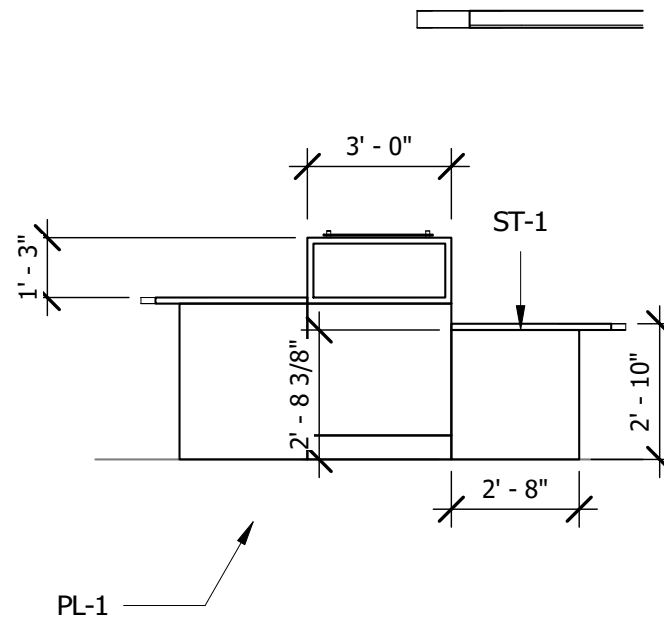


7 DISPLAY CASE (FRONT VIEW)
1/4" = 1'-0"



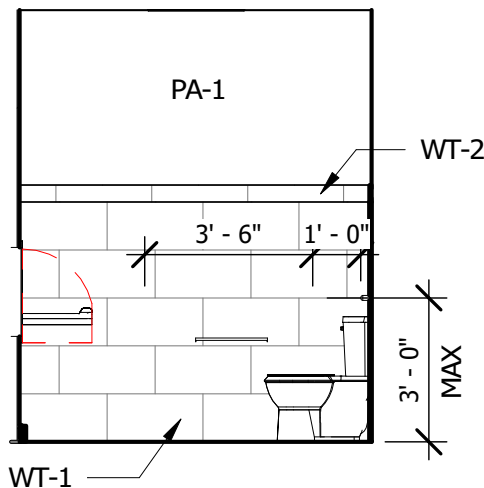
10 BOOK CASE (LEFT VIEW)
1/2" = 1'-0"

9 BOOK CASE (FRONT VIEW)
1/2" = 1'-0"



6 TELLER POD (REAR VIEW)
1/4" = 1'-0"

5 TELLER POD (FRONT VIEW)
1/4" = 1'-0"



4 RESTROOM 112 WEST
1/4" = 1'-0"

3 RESTROOM 112 NORTH
1/4" = 1'-0"

2 RESTROOM 112 SOUTH
1/4" = 1'-0"

1 RESTROOM 112 EAST
1/4" = 1'-0"



Project Number : 8985

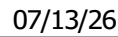
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MILLWORK DETAILS

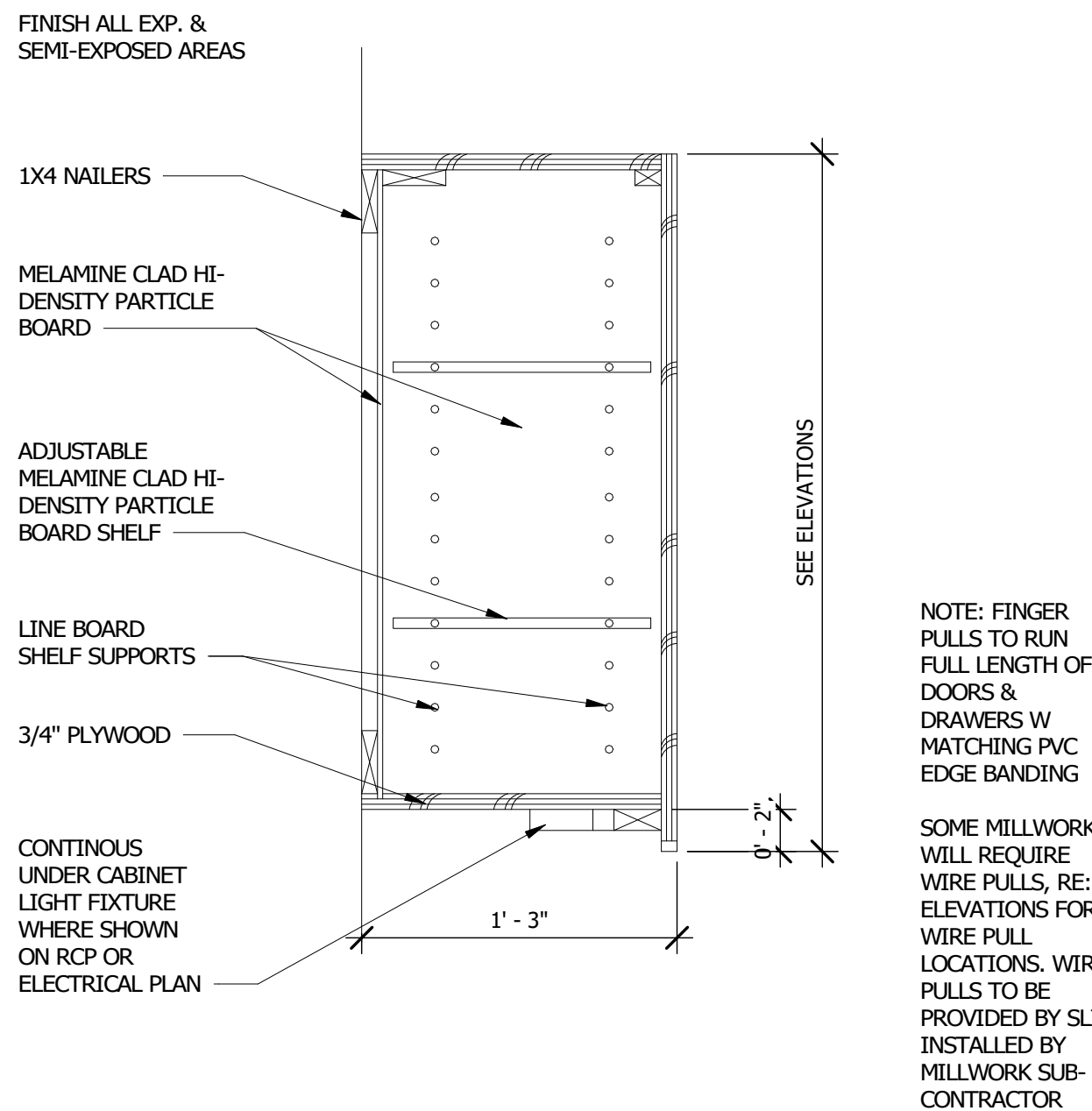
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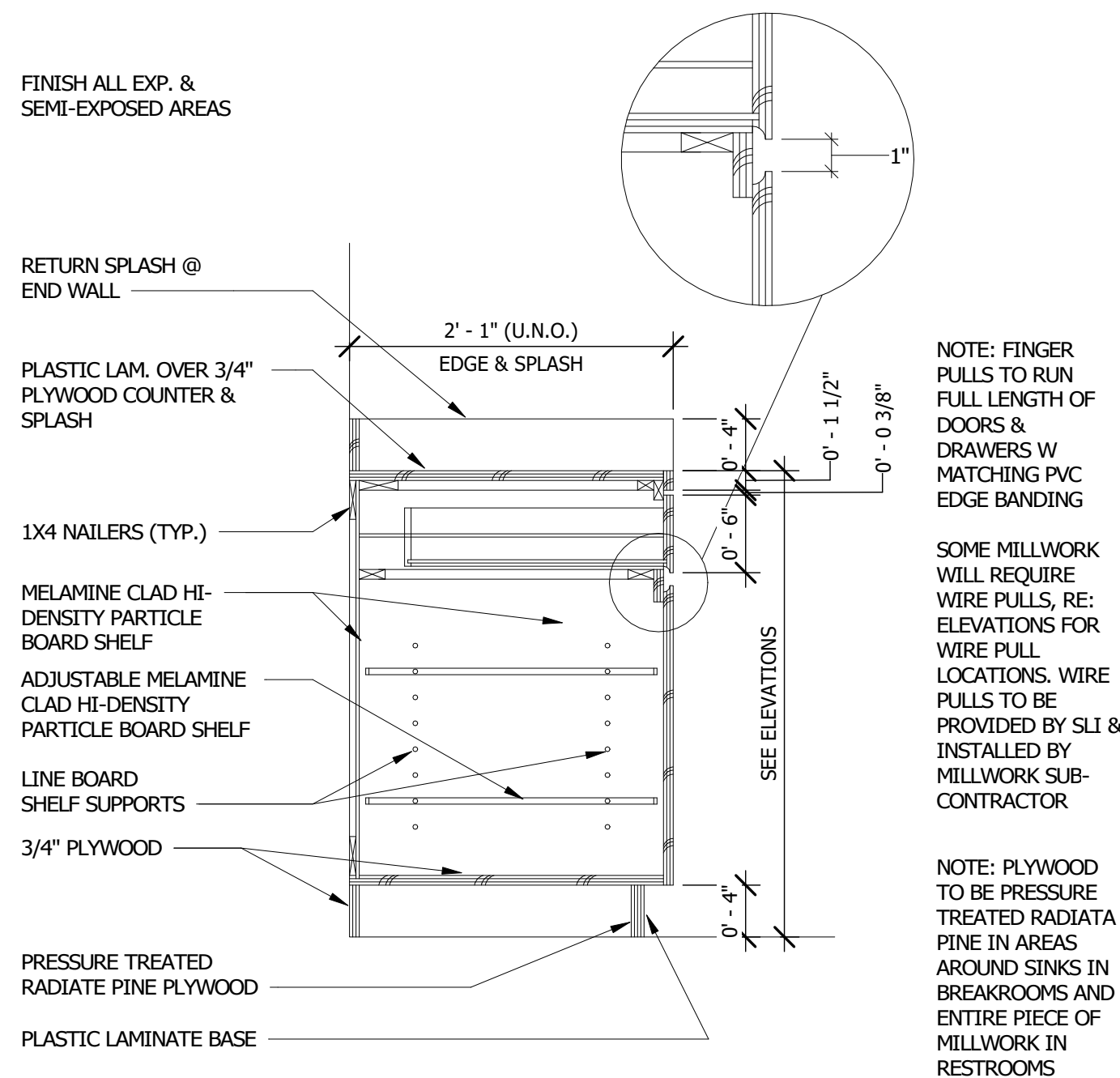
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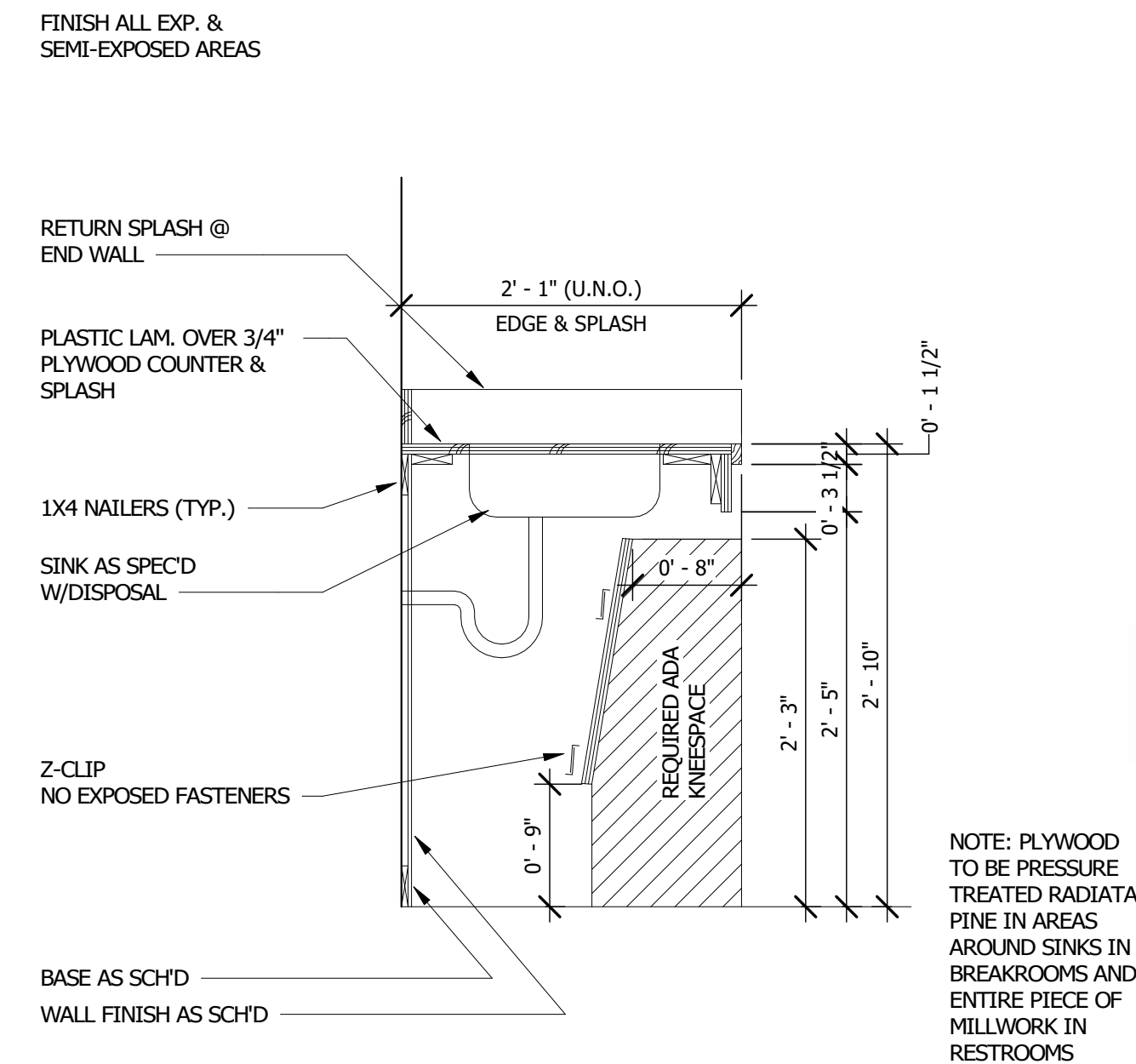
Approve



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



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



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

FLOORING MATERIAL LEGEND

CODE	MFG	SERIES	COLOR	ITEM #	SIZE	NOTES	FLAME SPREAD & SMOKE DEVELOP INDEX
CA-1	EF CONTRACT	IMPRINT	MARINE	IMP45	18"X36"	ASHLAR INSTALL, .205" THICKNESS	CLASS 1 PER IBC 2015 SECTION 804.4.1,2
FT-1	DALTILE	LINDEN POINT	GRIGIO	LP21	12"X24"	3/8" THICKNESS, 3/16" GROUT LINE	
LVT-1	ADORE	NATURELLE PLUS	ADORN	NAT-2051	7"X48"	1/3 INSTALL, 3MM THICKNESS	CLASS 1 PER IBC 2015 SECTION 804.4.1,2

BASE MATERIAL LEGEND

CODE	MFG	SERIES	COLOR	ITEM #	SIZE	NOTES	FLAME SPREAD & SMOKE DEVELOP INDEX
RB-1	ROPPE	PINNACLE	BLACK BROWN	193	4"H	COIL MATERIAL	CLASS 1 PER IBC 2015 SECTION 804.4.1,2
TB-1	DALTILE	LINDEN POINT	GRIGIO	LP21	3"X12" BULLNOSE	5/16" THICKNESS, 3/16" GROUT LINE	CLASS 1 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	GASLINER	FRP	WHITE			.090" THICKNESS	CLASS A PER IBC 2015 SECTION 803.9
GR-1	MAPEI	FLEXCOLOR CQ	SAHARA BEIGE	5011		3/16" THICKNESS	
PA-1	SHERWIN WILLIAMS	PRO MAR 200	EGRET WHITE	SW 7570		EGGSHELL FINISH	
PA-2	SHERWIN WILLIAMS	PRO MAR 200	COMMODORE	SW 6524		EGGSHELL FINISH	
PA-3	SHERWINWILLIAMS	PRO MAR 200	TRICON BLACK	SW 6258		EGGSHELL FINISH	
PA-4	SHERWINWILLIAMS	PRO MAR 200	ON THE ROCK	SW 7671			
WC-1	MOMENTUM	CUSTOM					
WT-1	MARAZZI	MODERN OASIS	SOFT CLOUD	MD05	12"X24"	5/16" THICKNESS, 3/16" GROUT LINE	
WT-2	MARAZZI	MODERN OASIS	SOFT CLOUD	P43C9	3"X12" BULLNOSE	5/16" THICKNESS, 3/16" GROUT LINE	INSTALL SCHLUTER J 100 ATGB TO TOP OF WALLTILE.

PLASTIC LAMINATE MATERIAL LEGEND

CODE	MFG	SERIES	COLOR	ITEM #	SIZE	NOTES	FLAME SPREAD & SMOKE DEVELOP INDEX
PL-1	WILSONART	STANDARD	PARK ELM	7967K-12		USE NON TEXTURED FINISH ON COUNTER TOPS	CLASS A ACCORDING TO NFPA 101. FLAME SPREAD LESS THAN 25 AND SMOKE DEVELOPED LESS THAN 450
PL-2	WILSONART	STANDARD	SATIN STAINLESS	4830K-18			CLASS A ACCORDING TO NFPA 101. FLAME SPREAD LESS THAN 25 AND SMOKE DEVELOPED LESS THAN 450
PL-3	WILSONART	STANDARD	PINNACLE WALNUT	7992-12		INTERIOR DOOR LAMINATE	CLASS A ACCORDING TO NFPA 101. FLAME SPREAD LESS THAN 25 AND SMOKE DEVELOPED LESS THAN 450
PL-4	WILSONART	STANDARD	SHADOW ZEPHYR	4857-60		DISPLAY CASE LAMINATE	CLASS A ACCORDING TO NFPA 101. FLAME SPREAD LESS THAN 25 AND SMOKE DEVELOPED LESS THAN 450

SOLID SURFACE MATERIAL LEGEND

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

WINDOW COVERING MATERIAL LEGEND

CODE	MFG	SERIES	COLOR	ITEM #	SIZE	NOTES	FLAME SPREAD & SMOKE DEVELOP INDEX
MB-1	BALI	CLASSIC	SILVER	737	1"	INSIDE MOUNTED, ALUMINUM VALANCE, EXTERIOR WINDOWS ONLY	
RS-1	SWF CONTRACT	ETERNITY	STEEL GREY	C1506		ALL CONFERENCE ROOM WINDOW	
WF-1	NATIONAL SOLUTIONS	OPTICALLY-CLEAR POLYESTER WINDOW FILM				OPACITY B	

APPLIANCE SCHEDULE

CODE	TYPE	MFG	MODEL #	ITEM #	FINISH	ROOMS	QTY
AP-1	TOP-FREEZER REFRIGERATOR W/ ADDED ICE MAKER	WHIRLPOOL	WRT311FZDZ	2592455	FINGERPRINT RESISTANT STAINLESS STEEL	BREAK ROOM 105	1

RESTROOM ACCESSORIES

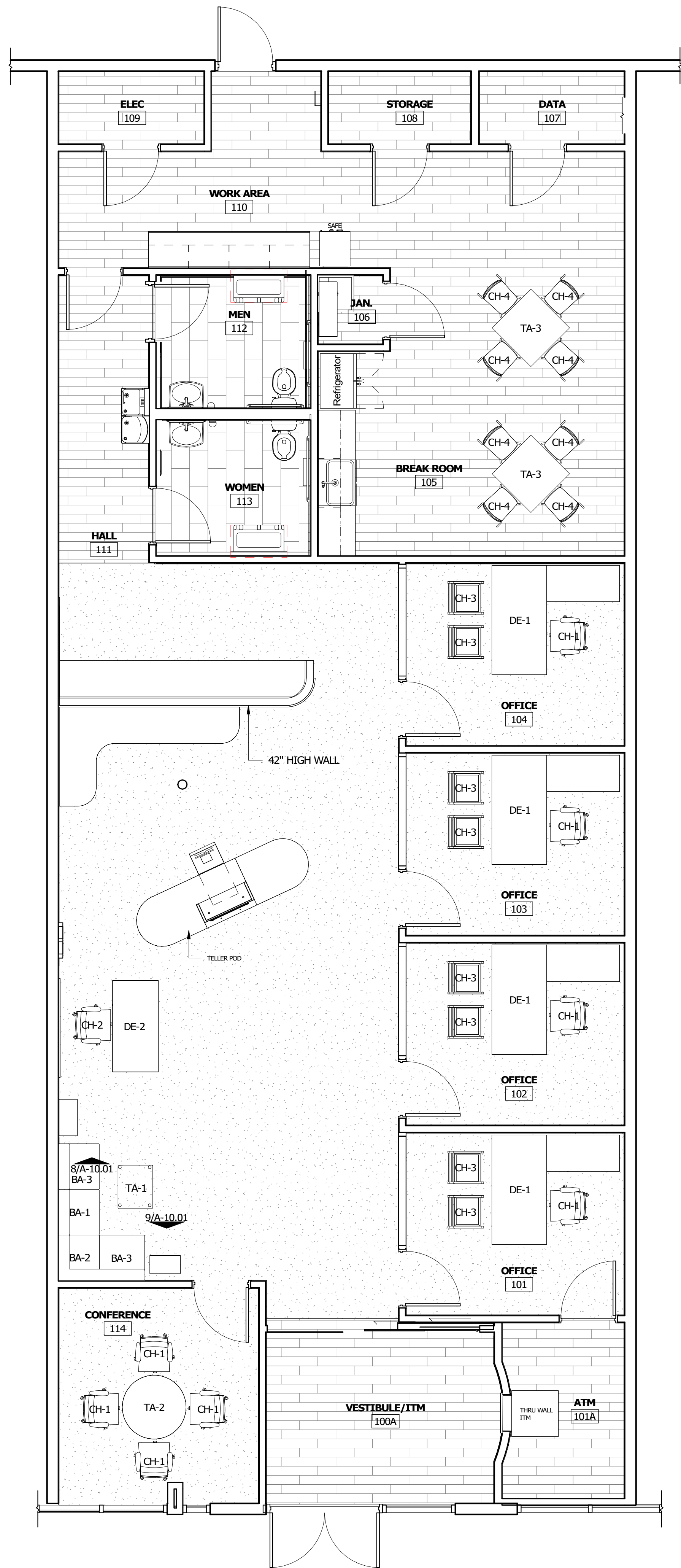
NO.	MFG	DESCRIPTION	ITEM #	QTY
RA-1	AMERICAN STANDARDS	AUTOMATIC LIQUID SOAP AND GEL HAND SANITIZER DISPENSER – 27 OZ. – STAINLESS STEEL – SURFACE OR STAND MOUNTED	0362	2
RA-2	AMERICAN STANDARDS	36" LONG 1-1/2" DIA – SNAP FLANGE MOUNT GRAB BARS	3801-36	2
RA-3	AMERICAN STANDARDS	42" LONG 1-1/2" DIA – SNAP FLANGE MOUNT GRAB BARS	3801-42	2
RA-4	American Specialties Inc.	TOILET TISSUE DISPENSER - TWIN HIDE-A-ROLL - SURFACE MOUNTED	0030	2
RA-5	American Specialties Inc.	Traditional™ - Paper Towel Dispenser & Waste Receptacle - Multi, C-Fold - 12 gal. - Recessed (04697)	4697	2
RA-6	American Specialties Inc.	Baby Changing Station - Horizontal - Stainless Steel - Recessed (9013)	9013	2

ROOM FINISH SCHEDULE

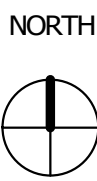
NO.	ROOM	FLOOR	BASE	WALL ►	WALL ▲	WALL ◄	WALL ▼	CEILING
100A	VESTIBULE/ITM	LVT-1	RB-1	PA-2	PA-1	PA-1	PA-1	
100B	LOBBY	CA-1	RB-1	PA-1	PA-1/WC-1	PA-1, PA-2	PA-1	PA-1
101	OFFICE	CA-1	RB-1	PA-1	PA-1	PA-1	PA-1	
101A	ATM	LVT-1	RB-1	PA-1	PA-1	PA-1	PA-1	
102	OFFICE	CA-1	RB-1	PA-1	PA-1	PA-1	PA-1	
103	OFFICE	CA-1	RB-1	PA-1	PA-1	PA-1	PA-1	
104	OFFICE	CA-1	RB-1	PA-1	PA-1	PA-1	PA-1	
105	BREAK ROOM	LVT-1	RB-1	PA-1	PA-1	PA-1	PA-1	
106	JAN.	LVT-1	RB-1	PA-1	PA-1, FRP-1	PA-1, FRP-1	PA-1	
107	DATA	LVT-1	RB-1	PA-1	PA-1	PA-1	PA-1	
108	STORAGE	LVT-1	RB-1	PA-1	PA-1	PA-1	PA-1	
109	ELEC	LVT-1	RB-1	PA-1	PA-1	PA-1	PA-1	
110	WORK AREA	LVT-1	RB-1	PA-1	PA-1	PA-1	PA-1	
111	HALL	LVT-1	RB-1	PA-1	PA-1	PA-1	PA-1	
112	MEN	FT-1	TB-1	PA-1, WT-1, WT-2	PA-1	PA-1	PA-1, WT-1, WT-2	
113	WOMEN	FT-1	TB-1	PA-1, WT-1, WT-2	PA-1, WT-1, WT-2	PA-1	PA-1	
114	CONFERENCE	CA-1	RB-1	PA-1	PA-1	PA-1	PA-1	

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	



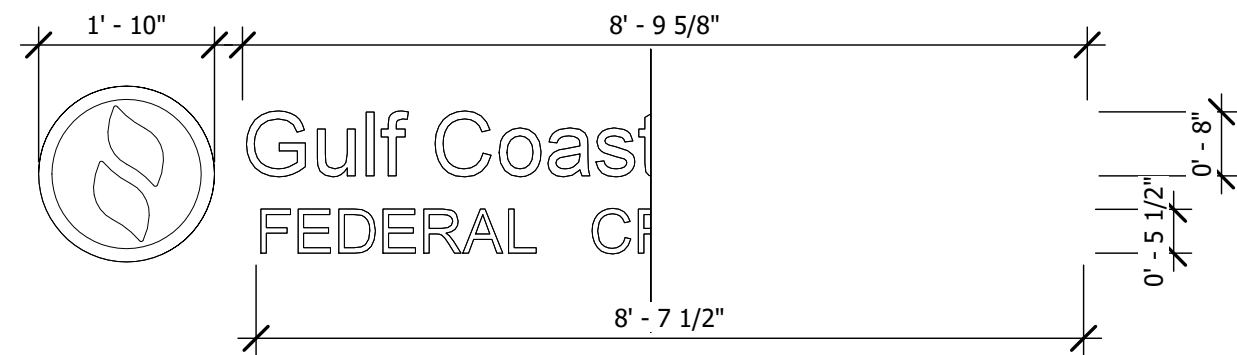
1 LEVEL 1 - FINISH PLAN
1/4" = 1'-0"

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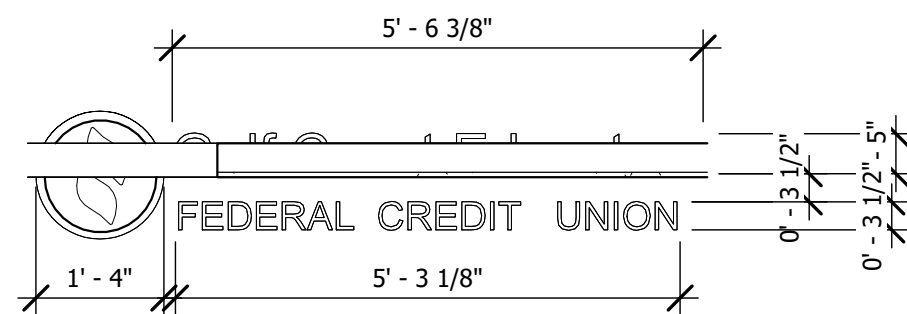
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LOCATION HOURS	
QUANTITY:	1
MFG:	EXTERIOR SIGNAGE PROVIDER
FRAME:	N/A
BACKGROUND:	N/A
LETTER:	WHITE DIE CUT VINYL, ARIAL
BRAILLE:	N/A
MOUNTING:	INSTALL ON ENTRY DOOR
SYMBOL:	N/A
NOTES:	



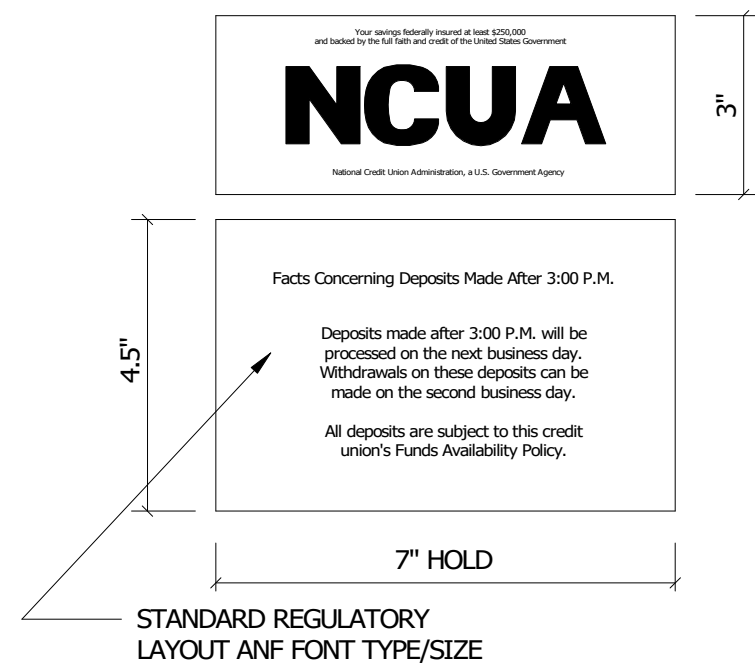
VESTIBULE SIGNAGE	
QUANTITY:	1
MFG:	EXTERIOR SIGNAGE SUBCONTRACTOR
FRAME:	N/A
FINISH:	PMS 660C ACRYLIC
LETTER:	3/4" THICKNESS
BRAILLE:	N/A
MOUNTING:	PIN MOUNTED
SYMBOL:	10
NOTES:	



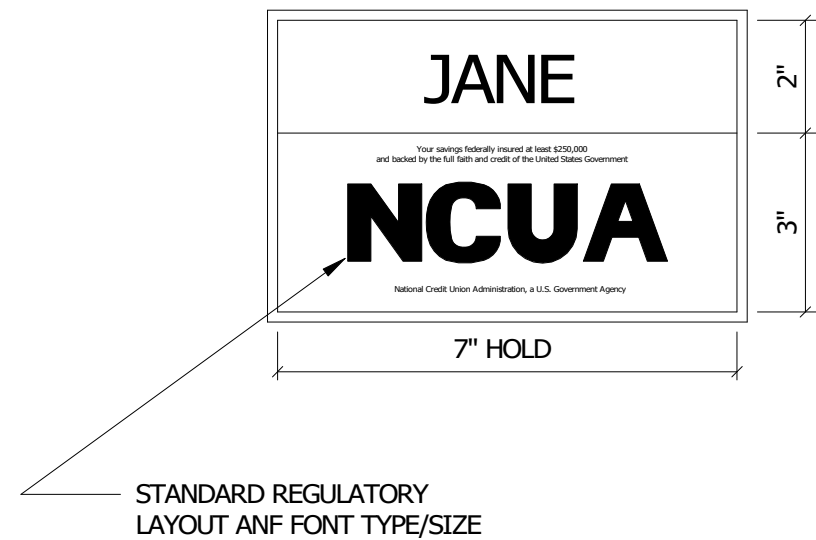
LOBBY GCEFCU SIGN	
QUANTITY:	1
MFG:	EXTERIOR SIGNAGE SUBCONTRACTOR
FRAME:	N/A
FINISH:	PMS 660C, ACRYLIC
SIZE:	3/4" THICKNESS
BRAILLE:	N/A
MOUNTING:	PIN MOUNTED
SYMBOL:	8
NOTES:	



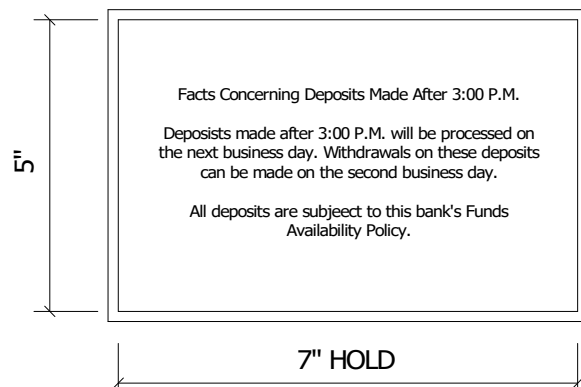
RESTROOM SIGNAGE	
QUANTITY:	1
MFG:	TEXAS MARKING PRODUCTS
FRAME:	SATIN SILVER
BACKGROUND:	ROMARK #922-344 SMOOTH SILVER
LETTER:	BLACK, ARIAL
BRAILLE:	N/A
MOUNTING:	STICKY TAPE TO WALL
SYMBOL:	N/A
NOTES:	



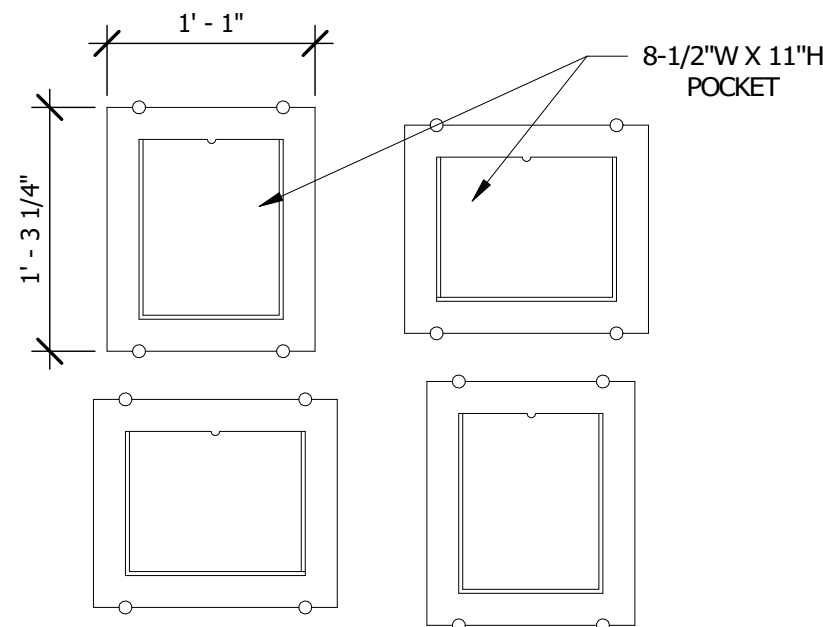
ITM FUNDS AVAILABILITY	
QUANTITY:	1
MFG:	TEXAS MARKING PRODUCTS
FRAME:	SATIN SILVER
BACKGROUND:	ROMARK #922-344 SMOOTH SILVER
LETTER:	BLACK, ARIAL
BRAILLE:	N/A
MOUNTING:	STICKY TAPE TO ITM
SYMBOL:	N/A
NOTES:	



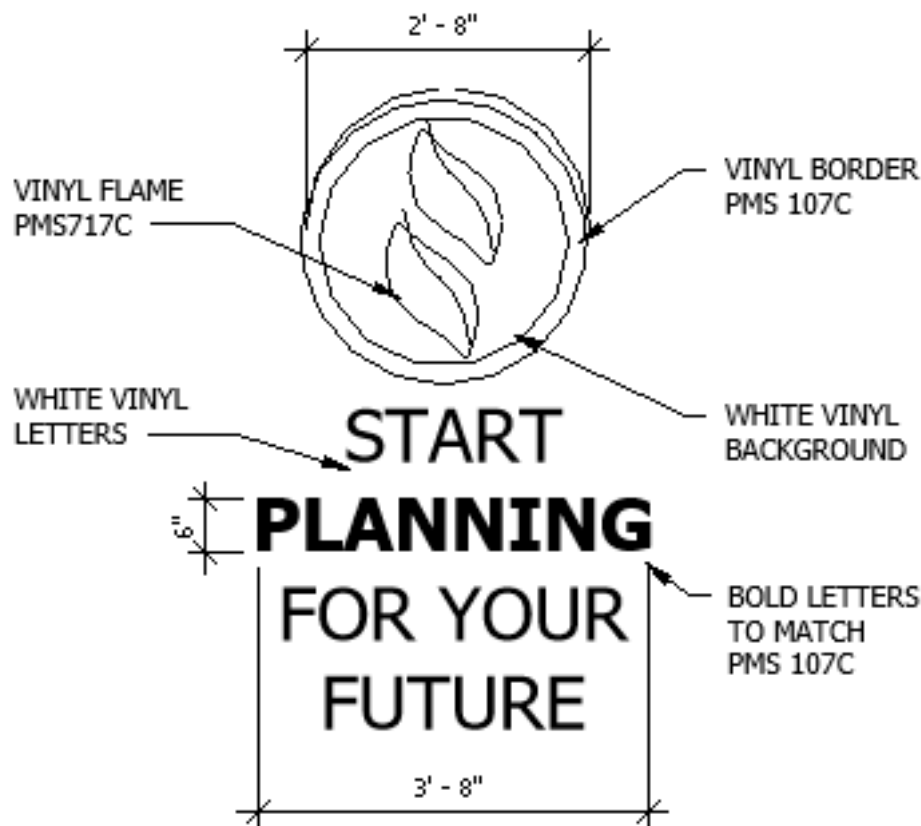
NAME PLATE DESK BAR	
QUANTITY:	4
MFG:	TEXAS MARKING PRODUCTS
FRAME:	SATIN SILVER
BACKGROUND:	ROMARK #922-344 SMOOTH SILVER
LETTER:	BLACK, ARIAL
BRAILLE:	N/A
MOUNTING:	REMOVABLE MAGNETIC FRONT
SYMBOL:	N/A
NOTES:	



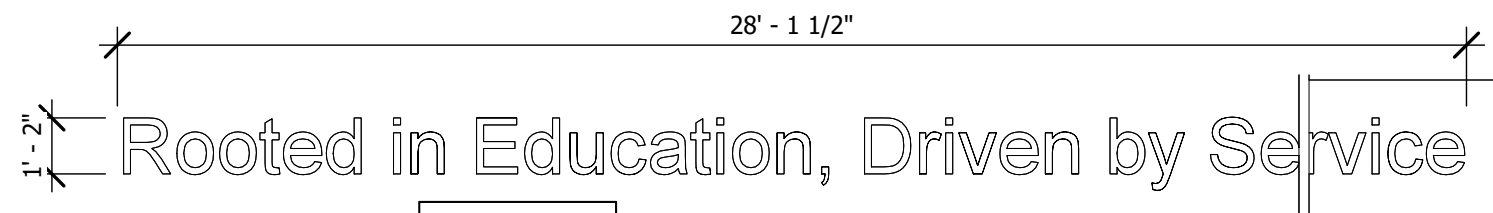
NAME PLATE DESK BAR	
QUANTITY:	4
MFG:	TEXAS MARKING PRODUCTS
FRAME:	SATIN SILVER
BACKGROUND:	ROMARK #922-344 SMOOTH SILVER
LETTER:	BLACK, ARIAL
BRAILLE:	N/A
MOUNTING:	REMOVABLE MAGNETIC FRONT
SYMBOL:	N/A
NOTES:	



REGULATORY INFORMATION POCKETS	
QUANTITY:	(TWO) 1'-1" W X 1'-3 1/4" H, (TWO) 1'-3 1/4" W X 1'-1" H
MFG:	REGAL PLASTICS
FRAME:	N/A
BACKGROUND:	PLEXIGLASS
LETTER:	N/A
BRAILLE:	N/A
MOUNTING:	1" DIA. ALUMINUM STANDOFFS
SYMBOL:	N/A
NOTES:	



FLAMES OF KNOWLEDGE	
QUANTITY:	One (1)
MFG:	EXTERIOR SIGNAGE VENDOR
FRAME:	N/A
FINISH:	VINYL
SIZE:	2'-8" DIA.
BRAILLE:	N/A
MOUNTING:	
SYMBOL:	2
NOTES:	SLI TO PROVIDE VECTOR FILE OF LOGO FOR EXACT IMAGE



LOBBY SIGNAGE	
QUANTITY:	One (1)
MFG:	EXTERIOR SIGNAGE SUBCONTRACTOR
FRAME:	N/A
FINISH:	PMS 660C, ACRYLIC
SIZE:	1'-2"H, THICKNESS
BRAILLE:	N/A
MOUNTING:	PIN MOUNTED
SYMBOL:	1
NOTES:	



ARCHITECTURE | DESIGN | CONSTRUCTION

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HOUSTON, TEXAS 77084
713-465-4650
www.sligroup.com



9001 Spencer Highway

Deer Park, Texas 77571

Suites B & C

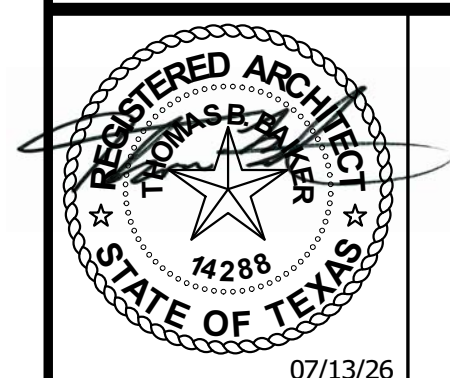
Project Number : 8985

ISSUED FOR CLIENT APPROVAL	DATE
ISSUED FOR BIDDING	07/13/26
ISSUED FOR PERMIT	07/13/26
ISSUED FOR CONSTRUCTION	

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07/13/26

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DRAWN BY	Author	SHEET NO.
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DOMESTIC WATER PIPING - COPPER TUBE AND FITTINGS

- HARD COPPER TUBE: ASTM B 88, TYPE 1 (ASTM B 88M, TYPE B) WATER TUBE, DRAIN TUBE.
- CAST-COPPER SOLDER-JOINT FITTINGS: ASME B612, WROUGHT-PRESSURE FITTINGS.
- WROUGHT-COPPER SOLDER-JOINT FITTINGS: ASME B6122, WROUGHT-COPPER PRESSURE FITTINGS.
- BRONZE FLANGES: ASME-B6124, CLASS 150, WITH SOLDER-JOINT ENDS.
- COPPER UNIONS: MSS SP-123, CAST-COPPER-ALLOY, HEXAGONAL-STOCK BODY, WITH SOLDER-JOINT ENDS. USE ONLY ON SEATING SURFACES, AND SOLDER-JOINT OR THREADED ENDS.
- B. SOFT COPPER TUBE: ASTM B 88, TYPE 1 (ASTM B 88M, TYPE A) AND ASTM B 88, TYPE 1 (ASTM B 88M, TYPE B) WATER TUBE, ANNEALED TUBE.
- COPPER SOLDER-JOINT FITTINGS: ASME B6122, WROUGHT-COPPER PRESSURE FITTINGS.
- GENERAL NOTES:
- MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
1. VEGA; PLUMBING AND HEATING SYSTEMS.
2. NPS 2 (DN 50) AND SMALLER: WROUGHT-COPPER TUBING WITH EPDM-RUBBER O-RING SEAL IN EACH END.
3. 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.
- SEPARATING DISCONNECTS: ASSEMBLY OF COPPER ALLOY AND FERROUS MATERIALS WITH NONCONDUCTIVE INSULATING MATERIAL. INCLUDE END CONNECTIONS COMPATIBLE WITH DRIVING PLAINS, JOINTS.
- D. DRAWING PLANS, SCHEDULES, AND DIMENSIONS INDICATE GENERAL LOCATION AND ARRANGEMENT OF PIPING. INDICATE LOCATION OF EACH FITTING, VALVE, AND FLANGE. INDICATE SIZE OF PIPE AND CALCULATE FRICTION LOSS, EXPANSION, AND OTHER DESIGN CONSIDERATIONS. INSTALL PIPING AS INDICATED UNLESS DEVIATIONS TO LAYOUT ARE APPROVED ON INFORMATIONAL BASIS.
- E. INSTALL COPPER TUBING UNDER BUILDING SLAB ACCORDING TO DIA C'S "COPPER TUBE HANDBOOK".
- F. INSTALL COPPER TUBE IMMEDIATELY UPSTREAM OF EACH ELECTRICAL FITTING.
- G. INSTALL DOMESTIC WATER PIPE LEVEL WITH 1/2% PERCENT SLOPE DOWNWARD TOWARD DRAIN AND FLOOR.
- 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 OTHERWISE INDICATED.
- J. INSTALL PIPING ABOVE ACCESSIBLE LEVELS TO ALLOW SUFFICIENT SPACE FOR CEILING PANEL REMOVAL AND ACCESS TO SERVICE.
- K. INSTALL PIPING ADJACENT TO EQUIPMENT TO CONDUITS TO ALLOW SERVICE AND MAINTENANCE.
- L. INSTALL PIPING TO PERMIT VENTILATION.
- 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 PIPING TO BE EXPOSED TO BE CHANGED AND/OR BRANCH CONNECTIONS.
- P. INSTALL UNIONS IN COPPER TUBING AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT, MACHINE, AND SPECIALTY.
- Q. INSTALL SEVERAL PENETRATIONS OF WALLS, CEILINGS, AND FLOORS.
- R. INSTALL ESCUTCHEONS FOR PENETRATIONS OF WALLS, CEILINGS, AND FLOORS.
- S. INSTALL TUBING 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 OR EQUIPMENT THAT DO NOT HAVE SUPPLY STOPS. USE BALL VALVES FOR PIPING NPS 2-1/2 (DN 65) AND SMALLER. USE GATE VALVES FOR PIPING NPS 3-4 (DN 65) AND LARGER.
- T. HANGER AND SUPPORT INSTALLATION: SUPPORT VERTICAL PIPING AND TUBING AT MINIMUM AT EACH FLOOR.
- U. ROD HANGER MAY BE REPLACED ONE SIZE FOR DOUBLE-ROD HANGERS, TO A MAXIMUM OF 3/8 INCH (10 MM).
- V. 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 AND NPS 5 (DN 75 AND DN 125): 102 INCHES (2590 MM) WITH 1/2-INCH (13-MM) ROD.
6. NPS 6 (DN 150): 102 INCHES (3 M) WITH 5/8-INCH (16-MM) ROD.
7. NPS 8 (DN 200): 102 INCHES (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, PERFORMANCE TESTS AND INSPECTIONS.
- PIPING INSPECTION:
1. DO NOT ENCLOSE, COVER, OR PUT PIPING INTO OPERATION UNTIL IT HAS BEEN INSPECTED AND APPROVED BY AUTHORITIES HAVING JURISDICTION.
2. INSPECT PIPING IMMEDIATELY AFTER IT HAS BEEN TESTED AND APPROVED. EXPLODE UNTIL AFTER BEFORE INSPECTION MUST BE MADE. PERFORMANCE TESTS SPECIFIED BELOW IN PRESENCE OF THE FOLLOWING HAVING JURISDICTION:
3. ROUGHING-IN INSPECTION: ARRANGE FOR INSPECTION OF PIPING BEFORE CONCEALING OR CLOSING-IN AFTER ROUGHING-IN AND BEFORE SETTING FITTINGS.
4. FINAL INSPECTION: INSPECTION OF PIPING AFTER ALL PIPING HAS BEEN COMPLETED. INSPECTION TO OBSERVE TESTS SPECIFIED BELOW AND TO ENSURE COMPLIANCE WITH REQUIREMENTS.
5. LEAK TEST: 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.
- PIPING TESTS:
1. FILL DOMESTIC WATER PIPING, EXCEPT TUBING COMPANIES TO DETERMINE THAT THEY ARE NOT LEAKING AND ARE NOT DRAINING OF WATER.
2. TEST FOR LEAKS AND DEFECTS, OR REPAIR OR PATCH OF EXISTING PIPING THAT HAVE BEEN LEAKED, EXTENDED, OR FLOWED, IF TESTING IS PERFORMED IN THE FIELD.
3. SUBMIT A SEPARATE PIPING RECORD TO THE CONTRACTOR, COMPLETE WITH DIAGRAM OF PORTION OF PIPING TESTED.
4. LEAK, NEW, ALTERED, EXTENDED, OR REPLACED DOMESTIC WATER PIPING WORKED TO BE TESTED IMMEDIATELY UNTIL IT HAS BEEN TESTED AND APPROVED. EXPLODE UNTIL AFTER BEFORE INSPECTION MUST BE MADE. PERFORMANCE TESTS SPECIFIED BELOW IN PRESENCE OF THE FOLLOWING HAVING JURISDICTION:
5. ROUGHING-IN INSPECTION: ARRANGE FOR INSPECTION OF PIPING BEFORE CONCEALING OR CLOSING-IN AFTER ROUGHING-IN AND BEFORE SETTING FITTINGS.
6. FINAL INSPECTION: INSPECTION OF PIPING AFTER ALL PIPING HAS BEEN COMPLETED. INSPECTION TO OBSERVE TESTS SPECIFIED BELOW AND TO ENSURE COMPLIANCE WITH REQUIREMENTS.
7. LEAK TEST: IF AUTHORITIES HAVING JURISDICTION FIND THAT PIPING WILL NOT PASS TESTS OR INSPECTIONS, MAKE REQUIRED CORRECTIONS AND ARRANGE FOR REINSPECTION.
8. REPORTS: PREPARE INSPECTION REPORTS AND HAVE THEM SIGNED BY AUTHORITIES HAVING JURISDICTION.
9. 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 USE.
- AD. DISINFECT PIPING AND ANTI-CONTAMINATING PROCEDURES PRESCRIBED BY AUTHORITIES HAVING JURISDICTION; IF METHODS ARE NOT PRESCRIBED, USE PROCEDURES DESCRIBED IN EITHER OF THE FOLLOWING:
1. FLUSH PIPING SYSTEM WITH CLEAN, POTABLE WATER UNTIL DUTY 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.
- AE. SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION. REPEAT PROCEDURES IF BIOLOGICAL EXAMINATION SHOWS CONTAMINATION.
- AF. UNDER-BUILDING-SLAB DOMESTIC WATER PIPING, NPS 2 (DN 50) AND SMALLER, SHALL BE THE FOLLOWING:
1. SOFT COPPER TUBE, ASTM B 88, TYPE 1 (ASTM B 88M, TYPE B); WROUGHT-COPPER SOLDER-JOINT FITTINGS, AND SOLDERED JOINTS.
- AG. ABOVEGROUND DOMESTIC WATER PIPING, NPS 2 (DN 50) AND SMALLER, SHALL BE THE FOLLOWING:
1. HARD COPPER TUBE, ASTM B 88, TYPE 1 (ASTM B 88M, TYPE B); WROUGHT-COPPER SOLDER-JOINT FITTINGS, AND SOLDERED JOINTS.
2. GALVANIZED-STEEL PIPE; GROOVED-JOINT, GALVANIZED-STEEL-PIPE APPURTENANCES, AND SOLDERED 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 FOR PIPING NPS 3-4 (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. BACKFLOW PREVENTION DUTY: CALIBRATED BALANCING VALVES.
4. DRAIN DUTY: HOSE-END DRAIN DEVICES.
- AI. USE CHECK VALVES TO MAINTAIN CORRECT DIRECTION OF DOMESTIC WATER FLOW TO AND FROM EQUIPMENT.
- AJ. RIOR GROOVED-END VALVES MAY BE USED WITH GROOVED-END PIPING.

AK. WATER HAMMER ARRESTER:

- [illegible]

AF. ABOVEGROUND, SOIL AND 1

1. SERVICE CLASS: CAST-IRON SOIL PIPE AND FITTINGS; GASKETS; AND GASKETED JOINTS
2. HUBLESS CAST-IRON SOIL PIPE AND FITTINGS HEAVY-DUTY HUBLESS-JIP COUPLINGS; AND COUPLED JOINTS
- AG. ABOVEGROUND, AND WASTE PIPING 8" AND LARGER SHALL BE ANY OF THE FOLLOWING:
1. SERVICE WEIGHT(HV) HUB AND SPOOT 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; CSPI HUBLESS-JIP 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
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. MFB, INC.
3. SMITH JAY R. MFG. CO.; DIVISION OF SMITH INDUSTRIES, INC.
4. TFLER PIPE, INC.
5. ZURN PLUMBING PRODUCTS GROUP; SPECIFICATION DRAINAGE OPERATION.
STANDARD: ASTM A112.3M FOR CAST IRON FOR CLEANOUT TEST EE.
SIZE: SAME AS CONNECTED BRANCH.
HUB: HUB-AND-SPOOT, CAST-IRON SOIL PIPE T-BRANCH AS REQUIRED TO MATCH CONNECTION.
CLOSURE: COUNTERSINK PLUG.
CLAMPING DEVICE: NOT REQUIRED OR NOT MORE THAN ONE SIZE SMALLER THAN CLEANOUT SIZE.
WALL ACCESS: ROUND, 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. TFLER PIPE, INC.
4. MFB, INC.
STANDARD: ASTM A112.3M FOR THREADED, ADJUSTABLE HUBLESS CLEANOUT.
SIZE: SAME AS CONNECTED BRANCH.
TYPE: ADJUSTABLE HOUSING THROUGH, ADJUSTABLE HOUSING.
BODY OR FERRULE: CAST-IRON OR NOT MORE THAN ONE SIZE SMALLER THAN CLEANOUT SIZE.
CLAMPING DEVICE: NOT REQUIRED.
OUTLET CONNECTION: THREADED.
CLOSURE: BRASS PLUG WITH STRAIGHT THREADS AND GASKET.
ADJUSTABLE HOUSING MATERIAL: CAST-IRON OR WITH SET-SCREWS OR OTHER DEVICE.
FRONT COVER MATERIAL AND FINISH: ROUGH BRONZE.
FRAME AND COVER SHAPE: ROUND.
TOP LOADING CLASSIFICATION: LIGHT DUTY.
NOTE: ASTM A 14, SERVICE CLASS, CAST-IRON FLOOR PIPE FITTING AND RISER TO CLEANOUT.
STANDARD: SAME: ASTM A112.31.
SIZE: SAME AS CONNECTED BRANCH.
HOUSING: STAINLESS STEEL.
CLOSURE: STAINLESS STEEL WITH SEAL.
RISER: STAINLESS-STEEL FLOOR PIPE FITTING TO CLEANOUT.
- C. CAST-IRON RAIL CLEANOUTS:
MANUFACTURERS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
1. JOSAM COMPANY; JOSAM DIV.
2. MFB, INC.
3. SMITH JAY R. MFG. CO.; DIVISION OF SMITH INDUSTRIES, INC.
4. TFLER PIPE, INC.
5. ZURN PLUMBING PRODUCTS GROUP; SPECIFICATION DRAINAGE OPERATION.
STANDARD: ASTM A112.3M FOR CONCEALED PLUG.
SIZE: SAME AS CONNECTED BRANCH.
HUB: HUB-AND-SPOOT, CAST-IRON SOIL PIPE T-BRANCH AS REQUIRED TO MATCH CONNECTION.
CLOSURE: COUNTERSINK OR RAISED-HUB, BRASS PLUG.
CLAMPING DEVICE: NOT REQUIRED 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. INSTANT CLEANOUTS IN ABOVEGROUND PIPING AND BUILDING DRAIN ACCESSORIES ACCORDING TO THE FOLLOWING:
1. SIZE: SAME AS DRAINAGE PIPING UP TO NPS 4 (100). USE NPS 4 (100) FOR LARGER DRAINAGE PIPING UNLESS LARGER CLEANOUT IS INDICATED.
2. LOCATE AT MINIMUM CHANGES OF DIRECTION OR SPOUTS AT 45 DEGREES.
3. LOCATE AT MINIMUM INTERVALS OF 50 FEET (15 M) FOR PIPING NPS 4 (100) AND SMALLER AND 100 FEET (30 M) FOR LARGER PIPING.
4. LOCATE AT END 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 CEILING CLEANOUTS FOR CONCEALED PIPING, INSTALL CLEANOUT WALL ACCESS COVERS, OR TYPES INDICATED, WITH FRAME AND COVER FLUSH WITH FINISHED WALL.
- G. FOR CEILING CLEANOUTS FOR CONCEALED PIPING, INSTALL CLEANOUT WALL ACCESS COVERS, OR TYPES INDICATED, WITH FRAME AND COVER FLUSH WITH FINISHED WALL.
- H. DRAIN FLOOR CLEANOUTS WITH FINISHED FLOOR, UNLESS OTHERWISE INDICATED.
- I. INSTALL FLOOR FLASHING ASSEMBLIES ON SANITARY STACK VENTS AND VENT STACKS THAT ARE NOT FLASHING.
- J. ASSEMBLE OPEN DRAIN FITTINGS AND INSTALL WITH TOP OF HUB 2 INCHES (51 MM) ABOVE FLOOR.
- K. INSTALL DEEP-SEAL TRAPS ON FLOOR DRAINS AND OTHER WASTE WATER DISCHARGES, IF INDICATED.
- L. INSTALL FLOOR-DRAIN, TRAP-SEAL, PRIMER FITTINGS ON INLET TO FLOOR DRAINS THAT REQUIRE TRAP-SEAL, PRIMER CONNECTION.
- M. INSTALL TRAP-SEAL, PRIMER CONNECTION IF TRAP HAS TO FLOOR-SEAL, PRIMER CONNECTION.
2. SIZE: SAME AS FLOOR DISCHARGE INLET.
- N. INSTALL AIR-GAP TRAP DISCHARGE INLET TO SANITARY BACKFLOW PREVENTERS AND ON INDIRECT-WASTE PIPING DRAINAGE INTO SANITARY DRAINAGE.
- PLUMBING FIXTURES**
- A. ASSEMBLE PLUMBING FIXTURES, TRAP, FITTINGS, AND OTHER COMPONENTS ACCORDING TO MANUFACTURERS' WRITTEN INSTRUCTIONS.
- B. INSTALL FLOOR-TO-WALL CONNECTION TO BUILDING SUBSTRATE, FOR WALL-MOUNTING FIXTURES.
- C. INSTALL CARRIER SUPPORTS WITH WASTE FITTING AND SEAL FOR BACK-YOUSTING FIXTURES.
- D. INSTALL CARRIER SUPPORTS WITHOUT WASTE FITTING FOR FIXTURES WITH TUBULAR WASTE PIPE.
- E. USE CHAR-TYPE CARRIER SUPPORTS WITH RECTANGULAR SLOTS, UPON WHICH TO PIPING OR SUPPORTS.
- F. INSTALL FLOOR-TO-WALL CONNECTIONS ON CLOSURE FLANGES OR OTHER ATTACHMENTS TO ACCESSIBLE BUILDING SUBSTRATE.
- G. INSTALL WALL-MOUNTING FIXTURES WITH TUBULAR WASTE PIPING ATTACHED TO SUPPORTS.
- H. INSTALL FLOOR-TO-WALL CONNECTIONS ON CLOSURE FLANGES ATTACHED TO BUILDING SUBSTRATE AND WALL BRACKET AND UNDER WASTE FITTING SEAL.
- I. INSTALL FLOOR-TO-WALL CONNECTIONS ON CLOSURE FLANGES ATTACHED TO CASWORK.
- J. INSTALL FIXTURES LEVEL AND PLUMB ACCORDING TO ROOMING-IN DRAWINGS.
- K. INSTALL FLOOR-TO-WALL CONNECTIONS ON CLOSURE FLANGES ATTACHED TO BE CONNECTED TO WASTE DISTRIBUTION PIPING. ATTACH SUPPORTS TO SUPPORTS OR SUBSTRATE WITH PIPE SPACES BETWEEN FIXTURES. INSTALL STOPS IN LOCATIONS WHERE THEY CAN BE EASILY REACHED FOR STRAINERS.
- L. EXCEPTION: USE BALL VALVES IF SUPPLY STOPS ARE NOT SPECIFIED WITH FIXTURE.
- M. INSTALL BALL VALVES ON WASTE PIPING ON DRAIN OUTLET OF EACH FIXTURE TO BE DIRECTLY CONNECTED TO SANITARY DRAINAGE SYSTEM.
- N. INSTALL TUBULAR WASTE PIPING ON DRAIN OUTLET OF EACH FIXTURE TO BE INDIRECTLY CONNECTED TO DRAINAGE SYSTEM.
- O. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- P. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- Q. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- R. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- S. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- T. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- U. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- V. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- W. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- X. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- Y. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- Z. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AA. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AB. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AC. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AD. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AE. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AF. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AG. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AH. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AI. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AJ. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AK. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AL. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AM. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AN. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AO. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AP. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AQ. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AR. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AS. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AT. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AU. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AV. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AW. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AX. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AY. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- AZ. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- BA. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- BB. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- BC. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- BD. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- BE. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- BF. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- BG. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- BH. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- BI. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- BJ. INSTALL FLUSHMETER VALVES FOR ACCESSIBLE WATER CLOSURES AND URINALS WITH HANDLE MOUNTED ON THE SIDE OF THE FLUSHMETER.
- BK. INSTALL

PRODUCTS SHALL NOT CONTAIN ARSENIDES, LEAD, MERCURY, OR MERCURY COMPOUNDS. PRODUCTS THAT COME IN CONTACT WITH 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, MODO-LOCK
- 3. KNAUF INSULATION, 100-DEGREE PIPE INSULATION.
- 4. MANSON INSULATION INC., ALLEY-K-C
- 5. OWENS CORNING, FIBERGLASS PIPE INSULATION.

TYPE 1, 850 DEG F (454 DEG C) MATERIALS: MINERAL OR GLASS FIBERS BLENDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 547, TYPE I, GRADE A, WITH FACTORY-APPLIED JACKETS. FACTORY-APPLIED JACKET REQUIREMENTS ARE SPECIFIED IN "FACTORY-APPLIED JACKETS" ARTICLE.

- [illegible]

- C. CUT INSTALLATION IN A MANNER TO AVOID COMPRESSING INSULATION MORE THAN 75 PERCENT OF ORIGINAL THICKNESS.
- D. FINISH INSTALLATION WITH SYSTEMS AT OPERATING CONDITIONS. REPAIR JOINT SEPARATIONS AND CRACKING DUE TO THERMAL MOVEMENT.
- E. PATCH CRACKS AND DISINTEGRATION WITH A POLYMER-EMULSION TYPE 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.
- F. FOR ABOVE-MANTLE INSULATION, DO NOT INSTALL INSULATION TO THE FOLLOWING:
1. VIBRATION-CONTROL DEVICES.
 2. TESTING AGENT LABELS AND STAMPS.
 3. MANIFESTS AND DATA PLATS.
 4. GLENNWAYS.
- G. INSTALLATION OF MINERAL-FIBER INSULATION:
- INSULATION INSTALLATION ON STRAIGHT PIPES AND TUBES:
1. SECURE EACH LAYER OF PREFORMED PIPE INSULATION TO PIPE WITH NAILS OR BANDS AND TIGHTEN BANDS WITHOUT DISTURBING INSULATION MATERIAL.
 2. WHERE VAPOR BARRIERS ARE INDICATED, SEAL LONGITUDINAL SEAMS, END JOINTS, AND JOINTS BETWEEN WITH FLANGES WITH AN ADHESIVE.
 3. FOR INSULATION WITH FACTORY-APPLIED JACKETS ABOVE-AMBIENT SURFACES, SECURE LAPs WITH OUTWARD CLINCHED STAPLES AT 8 INCHES (150 MM) O.C.
 4. FOR INSULATION WITH FACTORY-APPLIED JACKETS BELOW-AMBIENT SURFACES, DO NOT SECURE LONGITUDINAL TAPs. INSTEAD, SECURE STAPLES WITH ADHESIVE AS RECOMMENDED BY INSULATION MATERIAL MANUFACTURER AND SEAL WITH VAPOR-BARRIER MASTIC.
- H. INSULATION INSTALLATION ON PIPE FLANGES:
1. INSTALL PREFORMED PIPE INSULATION TO OUTSIDE SURFACE OF PIPE FLANGE AND BOTH SIDES OF INSULATION. SECURE INSULATION WITH NAILS, FLANGE WIDTH OF FLANGE, PLUS TWICE THE THICKNESS OF PIPE INSULATION.
 2. FILL VOID BETWEEN INSULATION AND FLANGE SURFACE WITH INSULATION AND OUTER CIRCUMFERENCE OF ADJACENT STRAIGHT PIPE SEGMENTS WITH MINERAL-FIBER BLANKET INSULATION.
- I. 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 INSULATION TO THE FULL CIRCUMFERENCE OF PIPE AS STRAIGHT SEGMENTS OF PIPE INSULATION WHEN AVAILABLE.
 2. WHEN PREFORMED INSULATION ELBOWS AND FITTINGS ARE NOT AVAILABLE, INSTALL SECTIONS OF PIPE INSULATION TO THE FULL CIRCUMFERENCE OF PIPE TO ADJOINING PIPE INSULATION. SECURE INSULATION MATERIALS WITH NAILS OR BANDS.
 3. INSULATION INSTALLATION ON VALVES AND PIPE SPECIALTIES:
 4. WHEN PREFORMED INSULATION IS NOT AVAILABLE, USE SAME MATERIAL AS STRAIGHT SEGMENTS OF PIPE INSULATION WHEN AVAILABLE.
 5. WHEN PREFORMED SECTIONS ARE NOT AVAILABLE, INSTALL MIXED SECTIONS OF PIPE INSULATION TO VALVE BODY.
 6. ARRANGE INSULATION TO PERMIT ACCESS TO PACKING AND TO ALLOW VALVE OPERATION WITHOUT DISTURBING INSULATION.
 7. INSTALL INSULATION TO FLANGES AS SPECIFIED FOR FLANGE INSULATION APPLICATION.

DOMESTIC HOT AND REGULATOR HOT WATER:

A. NPS 20 (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 (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 BOODIES:

ALL PIPE SIZES:

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 BE 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 DEGS F (16 DEG C):

ALL PIPE SIZES: INSULATION SHALL BE THE FOLLOWING:

MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I: 10 INCH (254 MM).

FIRE SUPPRESSION

- D. 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.
- F. 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, GUNDED 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.
- I. 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 CEILING 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 REVERSE 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 NAPA, 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 CONNECTIONS, NOTIFY THE FIRE DEPARTMENT, PLAN TO WORK CAREFULLY, AND ASSEMBLE ALL MATERIALS TO ENABLE COMPLETION IN THE SHORTEST POSSIBLE TIME. WORK PROTECTION ON CONNECTIONS SHOULD BE REVISED TO COMPLY WITHOUT INTERRUPTION, AND PREVENTED FROM BEING REMOVED AS PROMPTLY AS POSSIBLE. DURING THE IMPAIRMENT, PROVIDE EMERGENCY HOSE LINES, ADDITIONAL FIRE PAIS 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 LOCAL SYSTEMS OR REVAMPING THEM, PROTECTION SHOULD BE RESTORED AS SOON 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 OR NONFUNCTIONING CONTROLS AND EQUIPMENT. FLUSH, TEST, AND INSPECT SPRINKLER SYSTEMS ACCORDING TO NFPA 13, "SYSTEMS ACCEPTANCE" CHARGE. COORDINATE WITH FIRE-ALARM TESTS. OPERATE AS REQUIRED, COORDINATE WITH FIRE-PUMP TESTS. OPERATE AS REQUIRED. OPERATE AS NECESSARY TO DETERMINE WHETHER 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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Suites B & C

E/B/E Project Number : 26081

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

SUPPLY 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

AIR DEVICE SCHEDULE			
MARK	MANUF. + MODEL	TYPE	REMARKS
	TITUS OMNI OR EQUAL	CEILING SUPPLY	24x24/12x12 PLAQUE FACE. FACE SHALL BE ALUMINUM WITH A STEEL BACK PAN. PROVIDE AIR PATTERN CONTROLS. FACE AND FRAME SHALL HAVE AN OFF-WHITE ENAMEL FINISH. COORDINATE CEILING MOUNTING TYPE WITH ARCHITECTURAL CEILING TYPE. PROVIDE REMOTE DAMPER OPERATORS IN AREAS WITH INACCESSIBLE CEILINGS.
	TITUS OMNI OR EQUAL	CEILING RETURN	24x24/12x12 PLAQUE FACE. FACE SHALL BE ALUMINUM WITH A STEEL BACK PAN. FACE AND FRAME SHALL HAVE AN OFF-WHITE ENAMEL FINISH. COORDINATE CEILING MOUNTING TYPE WITH ARCHITECTURAL CEILING TYPE.
	BUILDING STANDARD	CEILING SUPPLY	48" LONG SUPPLY DIFFUSER WITH AN EXTRUDED ALUMINUM, ADJUSTABLE AIR OUTLET DESIGNED TO DIRECT SUPPLY AIR HORIZONTALLY ACROSS THE CEILING OR DOWN THE WALL. COORDINATE MOUNTING WITH CEILING TYPE.

$$\begin{aligned} & \text{OFFICE SPACE: } (5 \text{ CFM/PER x } 14 \text{ PPL}) + (0.06 \text{ CFM/SQFT x } 2398 \text{ SQFT}) = 284 \text{ CFM} \\ & \text{TOTAL} = 284 \text{ CFM} \\ & \text{OVERALL: } \frac{\text{Vbz}}{284 \text{ CFM}} / \frac{\text{Ez}}{1} = \frac{\text{Voz}}{284 \text{ CFM}} \\ & \text{TOTAL OUTSIDE AIR REQUIRED} = 284 \text{ CFM} \end{aligned}$$

RTU UNITS:

	RTU-1:	190 CFM
	RTU-2:	95 CFM
TOTAL OUTSIDE AIR PROVIDED	=	285 CFM
TOTAL OUTSIDE AIR REQUIRED	=	284 CFM

EXHAUST SYSTEM ANALYSIS:

ROOMS SHALL BE EXHAUSTED IN ACCORDANCE WITH MECHANICAL CODES. RESTROOMS SHALL BE EXHAUSTED AT A MINIMUM 70 CFM/FIXTURE.

EF-1:	REQUIRED	DESIGN
112 MENS RR	70 CFM	70 CFM
EF-2	REQUIRED	DESIGN
113 WOMENS RR	70 CFM	70 CFM
EF-3	REQUIRED	DESIGN
106 JAN	15 CFM	20 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
	MANUAL DAMPER
	FIRE DAMPER WITH ACCESS DOOR
	DRAIN LINE
	PIPE RISING
	PIPE TURNING DOWN
	EXHAUST FAN SPEED CONTROL
	THERMOSTAT
(E)	EXISTING TO REMAIN
(R)	RELOCATED
R.A.	RETURN AIR
S.A.	SUPPLY AIR
C.F.M.	CUBIC FEET PER MINUTE
AHU	AIR HANDLER UNIT

NOTES:

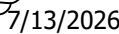
1. ALL SYMBOLS MAY NOT BE USED ON THIS DRAWINGS.



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9001 Spencer Highway

E/B/E Project Number : 26081

[illegible]

MECHANICAL INFORMATION

SHEET NO.

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

SPLIT DX SYSTEM SCHEDULE				
MARK	FCU-1	FCU-2	-	-
SERVES	DATA ROOM	ATM ROOM	-	-
TOTAL CFM	325	325	-	-
OUTSIDE AIR (CFM)	0	0	-	-
EXT. SP. (IN. WG)	-	-	-	-
AMBIENT TEMP. (DEG F)	105	105	-	-
COOLING				
EAT DB / WB	-	-	-	-
LAT DB / WB	-	-	-	-
SENSIBLE HEAT (KBTUH)	8.7	8.7	-	-
TOTAL HEAT (KBTUH)	12.2	12.2	-	-
HORSEPOWER	-	-	-	-
VOLTS/PH/HZ	208/1/60	208/1/60	-	-
MCA/MOOP	OUTDOOR UNIT	OUTDOOR UNIT	-	-
MANUFACTURER	MITSUBISHI	MITSUBISHI	-	-
MODEL NO.	PKA-AL12NL	PKA-AL12NL	-	-
WEIGHT (LBS)	28	28	-	-
CONDENSING UNIT				
MARK	CU-1	CU-2	-	-
VOLTS/PH/HZ	208/1/60	208/1/60	-	-
MCA/MOOP	16/27	16/27	-	-
SEER2/EER2	21.10/14.80	21.10/14.80	-	-
MANUFACTURER	MITSUBISHI	MITSUBISHI	-	-
MODEL NO.	PUY-AK12NL	PUY-AK12NL	-	-
WEIGHT (LBS)	99	99	-	-
NOTES	ALL	ALL	-	-

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 $\pm 1^\circ\text{F}$. THE CONTROL SYSTEM SHALL CONTROL ECONOMIZER, DISCHARGE AIR TEMPERATURE CONTROL, SPACE TEMPERATURE, AND HUMIDITY SETPOINTS.
- 3.1. THERMOSTAT SHALL INCLUDE A DEADBAND NOT LESS THAN 5°F .
- 3.2. PROVIDE THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY TIME CLOCK OR PROGRAMMABLE SYSTEM.
- 3.3. SETBACK CONTROLS SHALL BE CONFIGURED TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURE DOWN TO 55°F AUTOMATIC SETBACK.
- 3.4. AUTOMATIC TIME CLOCK OR PROGRAM CONTROLS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND SET SETTINGS DURING A LOSS OF POWER FOR NOT FEWER THAN 10 HOURS. ADDITIONALLY, THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS; A MANUALLY OPERATED TIMER CONFIGURED TO OPERATE THE SYSTEM FOR UP TO 2 HOURS.
- 3.5. PROVIDE AUTOMATIC START CONTROLS TO EACH SYSTEM. CONTROLS SHALL BE CONFIGURED TO AUTOMATICALLY ADJUST THE DAILY START TIME OF THE HVAC SYSTEM IN ORDER TO BRING EACH SPACE TO THE DESIRED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED OCCUPANCY.
4. PROVIDE SUPPLY FAN WITH PREMIUM EFFICIENCY (MINIMUM 2021 IECC REQUIREMENT), ECM, VARIABLE-SPEED MOTOR.
5. PROVIDE WITH LOW AMBIENT KIT, FREEZESTAT, CRANKCASE HEATER, HIGH PRESSURE CONTROL AND FAN DELAY RELAY KIT.
6. PROVIDE LITTLE GIANT CONDENSATE PUMP.
- 6.1. PROVIDE PRIMARY AND AUXILIARY DRAIN LINES FROM AIR HANDLING UNIT TO NEAREST FLOOR DRAIN. SUPPORT PIPE FOR $1/8"$ PER FOOT SLOPE TO DRAIN.
7. PROVIDE ALL REFRIGERANT LINE ACCESSORIES AND SIZES PER MANUFACTURER.
8. ALTERNATE MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY MEET THE PERFORMANCE AND SPECIFICATIONS.

ROOFTOP UNIT SCHEDULE				
DESIGNATION	RTU-1	RTU-2	-	-
SERVES	LOBBY AREA	REAR AREA	-	-
TOTAL CFM	1,500	700	-	-
O.A. CFM	190	95	-	-
EXT. S.P. IN. WC	0.9	0.7	-	-
FAN HP	-	-	-	-
COOLING				
EAT (DB/WB)	77.49/64.96	78.12/65.15	-	-
LAT (DB/WB)	55.00/54.09	55.00/54.51	-	-
SEN. HT. KBTU/HR	30.3	17.7	-	-
TOTAL HT. KBTU/HR	40.3	22.3	-	-
AMB. TEMP.	105	105	-	-
HEATING		ELECTRIC	ELECTRIC	
ENTERING/LEAVING AIR TEMP.	65.6/95.0	64.8/95.0	-	-
HEATING KW	13	6	-	-
HEATING INPUT/OUTPUT KBTUH	41.3	21.9	-	-
VOLTS/PHASE/CYCLES	460/3/60	208/1/60	-	-
MCA/MOCP	25/26	36/40	-	-
EER2/SEER2	10.6/13.4	11.0/14.3	-	-
MANUFACTURER		TRANE	-	-
MODEL NO.	EDK048A4ED00	5TCC4024A	-	-
WEIGHT (LBS)	-	-	-	-
DIMENSIONS (L X W X H) FT	-X-X-	-X-X-	-	-
NOTES	ALL	ALL	-	-

NOTES:

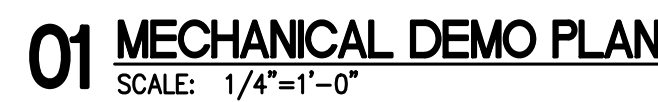
3. SUBMITTAL EQUIPMENT MUST MEET AND ACHIEVE THE LOW DEWPOINT REQUIRED ABOVE. SUBMITTAL EQUIPMENT MEETING ONLY THE TOTAL AND SENSIBLE LOADS SHOWN IN THE SCHEDULE IS NOT ACCEPTABLE REGARDING ITS PERFORMANCE.
2. PROVIDE 2" MERV 11. FILTER, AND HINGED ACCESS PANELS.
3. PROVIDE FACTORY BOTTOM DISCHARGE CURB AT LEAST 14" HIGH WITH R-8 INSULATION.
4. PROVIDE FACTORY INSTALLED DISCONNECT AND SINGLE POINT ELECTRICAL CONNECTION.
5. PROVIDE WITH LOW AMBIENT KIT, FREEZSTAT, CRANKCASE HEATER, HIGH PRESSURE CONTROL AND FAN DELAY RELAY KIT.
6. UNITS SHALL HAVE A MAXIMUM DAMPER LEAKAGE AT 1.0 IN W.G. THAT DOES NOT EXCEED 4 CFM/SQ.FT. OF DAMPER AREA.
7. PROVIDE 2011 IECC COMPLIANT THERMOSTAT FOR EACH ZONE. THERMOSTAT SHALL BE CALIBRATED TO DISPLAY SPACE TEMPERATURE AT +/- 1°F. THE CONTROL SYSTEM SHALL CONTROL ECONOMIZER, DISCHARGE AIR TEMPERATURE CONTROL, SPACE TEMPERATURE.
- 7.1. THERMOSTAT SHALL INCLUDE A DEADBAND NOT LESS THAN 5°F.
- 7.2. PROVIDE THERMOSTATIC SETBACK CONTROLS THAT ARE CONTROLLED BY TIME CLOCK OR PROGRAMMABLE SYSTEM.
- 7.3. SETBACK CONTROLS SHALL BE CONFIGURED TO SET BACK OR TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN ZONE TEMPERATURE DOWN TO 55°F AUTOMATIC SETBACK.
- 7.4. AUTOMATIC TIME CLOCK OR PROGRAM CONTROLS SHALL BE CAPABLE OF STARTING AND STOPPING THE SYSTEM FOR SEVEN DIFFERENT DAILY SCHEDULES PER WEEK AND RETAINING THEIR PROGRAMMING AND TIME SETTINGS DURING A LOSS OF POWER FOR NOT FEWER THAN 10 HOURS. ADDITIONALLY, THE CONTROLS SHALL HAVE A MANUAL OVERRIDE THAT ALLOWS TEMPORARY OPERATION OF THE SYSTEM FOR UP TO 2 HOURS; A MANUALLY OPERATED TIMER CONFIGURED TO OPERATE THE SYSTEM FOR UP TO 2 HOURS.
- 7.5. PROVIDE AUTOMATIC START CONTROLS TO EACH SYSTEM. CONTROLS SHALL BE CONFIGURED TO AUTOMATICALLY ADJUST THE DAILY START TIME OF THE HVAC SYSTEM IN ORDER TO BRING EACH SPACE TO THE DESIRED TEMPERATURE IMMEDIATELY PRIOR TO SCHEDULED OCCUPANCY.
8. PROVIDE CORROSION RESISTANT BIRD SCREEN WITHIN THE OUTDOOR AIR INTAKE.
9. LOCATE ROOFTOP UNITS OUTSIDE AIR INTAKE A MINIMUM OF 15 FT FROM ALL EXHAUST/VENT OUTLETS.
10. PROVIDE MOTORIZED DAMPER FOR OUTSIDE AIR INTAKE. DAMPER SHALL CLOSE WHEN UNIT IS DE-ENERGIZED.
11. PROVIDE BI-POLAR IONIZATION POWERED BY THE EQUIPMENT. SEE MEP SPECIFICATION FOR SPECS.
12. PROVIDE POWER EXHAUST FAN FOR EACH UNIT TO MAINTAIN PROPER PRESSURE INSIDE THE SPACE DURING NORMAL OPERATION.
13. UNIT HAVE RAIN ENTRAINMENT THAT SATISFIES ASHRAE 62.1-2007 AND DEVICES UTILIZED SHALL CONFORM TO UL 1959, SECTION 58.
14. PROVIDE SUPPLY FAN WITH PREMIUM EFFICIENCY (MINIMUM 2021 IECC REQUIREMENT), ECM, VARIABLE-SPEED MOTOR.
15. PROVIDE FACTORY INSTALLED DUAL 115 VOLT GFCI SERVICE OUTLET.
16. WEIGHT MAY EXCEEDS THE LIMITS AS SPECIFIED ON THE BASE BUILD STRUCTURAL DESIGN DRAWINGS. CONTRACTOR SHALL VERIFY THE WEIGHT LIMITATIONS AND MANUFACTURERS SPECIFICATIONS. CONSULT A STRUCTURAL ENGINEER FOR ANY MODIFICATION TO THE STRUCTURE AS REQUIRED BY THE MANUFACTURERS SPECIFICATIONS.

EXHAUST FAN SCHEDULE				
MARK	EF-1	EF-2	EF-3	-
SERVES	RESTROOM	RESTROOM	JAN.	-
CFM	70 CFM	70 CFM	20 CFM	-
TYPE/DRIVE	DIRECT	DIRECT	DIRECT	-
S.P. IN. WG.	0.3	0.3	-	-
HORSEPOWER (WATTS)	(33)	(33)	-	-
RPM (MAX)	711	711	-	-
VOLTS/PHASE/HERTZ	120/1/60	120/1/60	120/1/60	-
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	-
SERIES NO.	SP-B110	SP-B110	-	-
NOTES	ALL	ALL	ALL	-

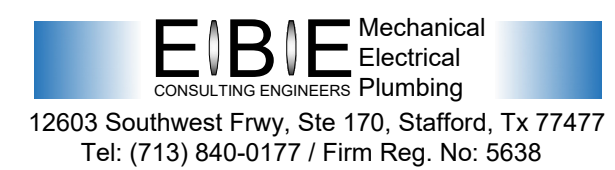
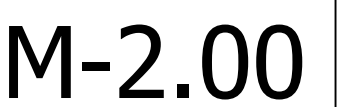
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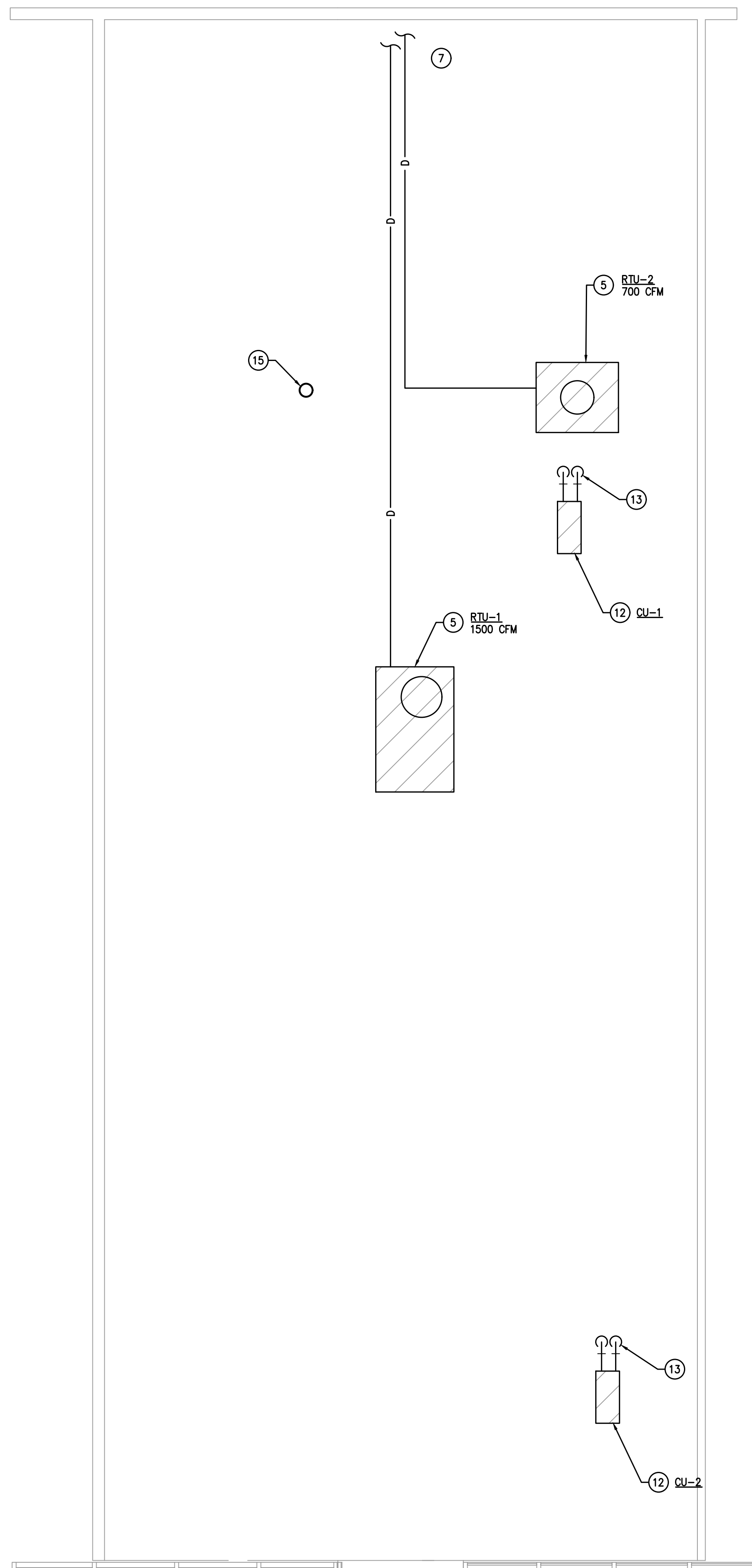
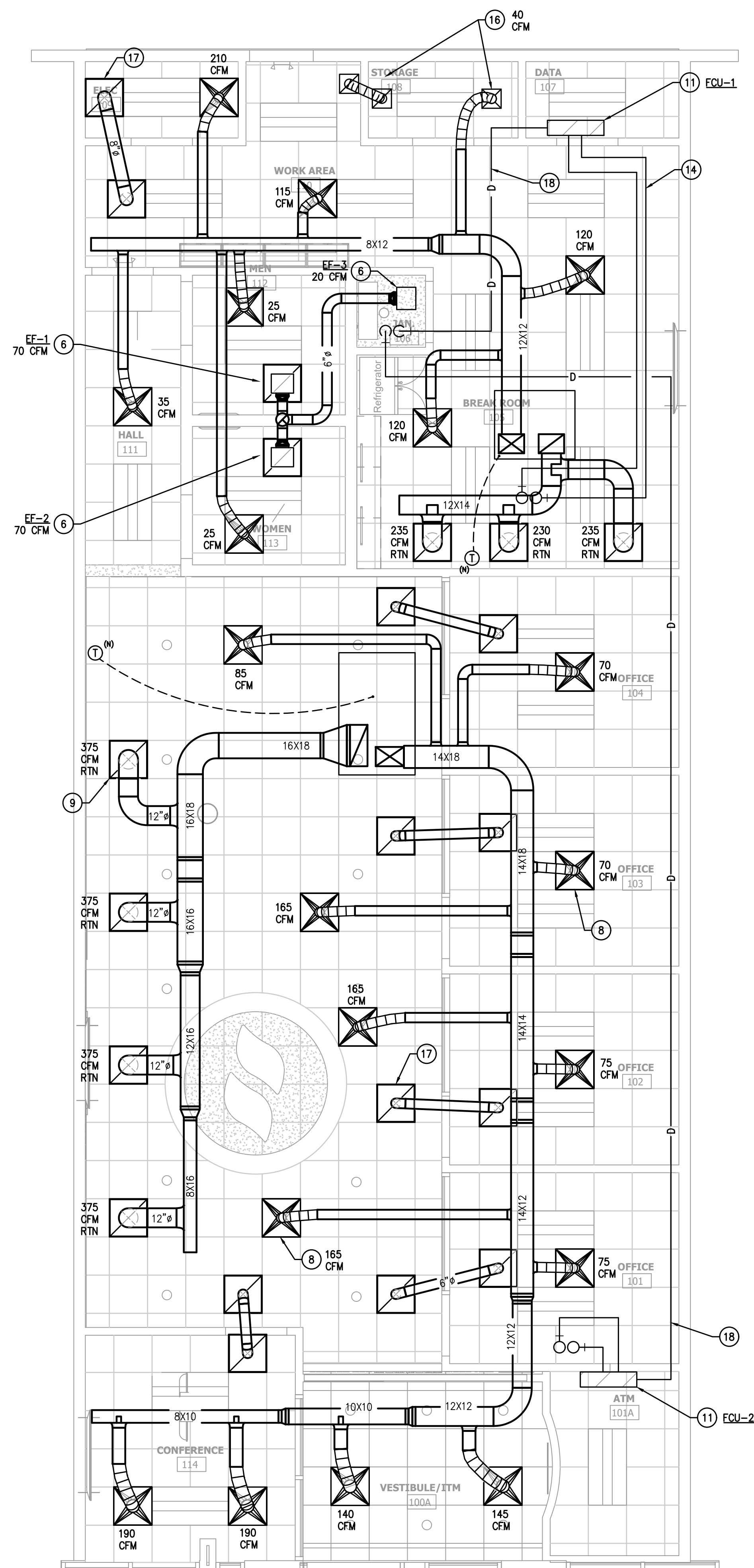
1. PROVIDE FAN WITH BACKDRAFT DAMPER, BIRD/BUG SCREEN, DISCONNECT SWITCH.
2. CONTROLS:
 - 2.1. FAN TO OPERATE INTERMITTENTLY.
 - 2.2. INTERLOCK FAN ON/OFF OPERATION WITH THE MOTION SENSOR SWITCH TO OPERATE WHEN SWITCH IS TURNED ON.
3. PROVIDE ALL REQUIRED ACCESSORIES FOR PROPER INSTALLATION. INSTALL IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION. ALTERNATE MANUFACTURERS ARE ACCEPTABLE PROVIDED THEY MEET THE PERFORMANCE AND SPECIFICATIONS.
4. PROVIDE SPEED CONTROLLER.

[illegible]



- ① DEMOLISH KITCHEN EXHAUST FAN. DEMOLISH ALL CONNECTED DUCTWORK. PROVIDE ROOF CAP.
- ② DEMOLISH KITCHEN MAKE-UP AIR UNIT. DEMOLISH ALL CONNECTED DUCTWORK. PROVIDE ROOF CAP.
- ③ REMOVE ROOF TOP UNIT. DEMOLISH ALL CONNECTED DUCTWORK, PIPING AND CONTROLS. PROVIDE ROOF CAP.
- ④ DEMOLISH ALL DUCTWORK INDICATED ALONG WITH DIFFUSERS.

[illegible]

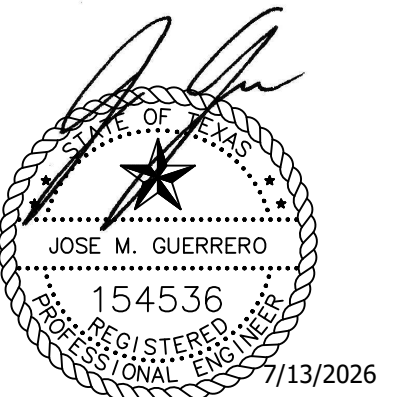


MECHANICAL KEYED NOTES:

- (1) DEMOLISH KITCHEN EXHAUST FAN. DEMOLISH ALL CONNECTED DUCTWORK. PROVIDE ROOF CAP.
- (2) DEMOLISH KITCHEN MAKE-UP AIR UNIT. DEMOLISH ALL CONNECTED DUCTWORK. PROVIDE ROOF CAP.
- (3) REMOVE ROOF TOP UNIT. DEMOLISH ALL CONNECTED DUCTWORK, PIPING AND CONTROLS. PROVIDE ROOF CAP.
- (4) DEMOLISH ALL DUCTWORK INDICATED ALONG WITH DIFFUSERS.
- (5) PROVIDE NEW ROOF TOP UNITS (RTU) AT LOCATION SHOWN. COORDINATE WITH STRUCTURAL ENGINEER AND ARCHITECT FOR EXACT LOCATION. FIELD VERIFY AND COORDINATE TO MAINTAIN ALL BUILDING EXHAUST TO BE AT LEAST 15 FEET AWAY FROM THE RTU'S OUTSIDE AIR INTAKE OPENING. SEE SCHEDULE AND DETAILS.
- (6) PROVIDE NEW CEILING MOUNTED EXHAUST FAN (EF). ROUTE EXHAUST DUCT TO COMMON EXHAUST DUCT RISER THROUGH ROOF. ENSURE EXHAUST OUTLET IS A MINIMUM OF 10 FEET FROM NEAREST FRESH AIR INTAKE. BALANCE TO CFM INDICATED. SEE SCHEDULE AND DETAIL.
- (7) PROVIDE 3/4" CONDENSATE DRAIN LINE ROUTED FROM ROOF DOWN TO ROOF GUTTER IN THE SIDE OF THE BUILDING WHERE IT SHALL BE ROUTED DIRECTLY TO STORM DRAIN. FIELD VERIFY AND COORDINATE FOR EXACT ROUTING PRIOR TO START OF WORK. SLOPE THE DRAIN WITH SLOPE OF 1/8" PER FOOT TOWARD THE GUTTER.
- (8) PROVIDE NEW 24" X 24" SUPPLY AIR DEVICE AT LOCATION INDICATED. BALANCE TO CFM INDICATED. SEE NECK SIZE SCHEDULE AND DETAILS. TYPICAL.
- (9) PROVIDE NEW 24" X 24" RETURN AIR GRILLE AT LOCATION INDICATED. SEE SCHEDULE AND DETAILS. TYPICAL.
- (10) PROVIDE NEW THERMOSTAT AT LOCATION INDICATED AT 4' A.F.F.. CONTRACTOR TO FIELD VERIFY AND COORDINATE WITH BUILDING ENGINEER FOR EXACT THERMOSTAT AND LOCATION.
- (11) PROVIDE A NEW FAN COIL UNIT (FCU) ALONG WITH DUCTWORK AT LOCATION INDICATED. FIELD COORDINATE FOR EXACT LOCATION TO AVOID ANY CONFLICT PRIOR TO START OF WORK. PROVIDE CLEARANCE FOR SERVICES AND INSTALL AS HIGH AS POSSIBLE. PAINT IF NEEDED COORDINATE WITH ARCHITECT FOR MORE INFORMATION. REFER TO SCHEDULE AND DETAILS. TYPICAL.
- (12) PROVIDE ROOF MOUNTED CONDENSING UNIT.
- (13) REFRIGERANT PIPING THROUGH ROOF.
- (14) REFRIGERANT PIPING WITH 1" ARMAFLEX INSULATION. REFER TO MANUFACTURER RECOMMENDATIONS FOR LINE SIZE.
- (15) PROVIDE ROOF EXHAUST CAP.
- (16) PROVIDE NEW 12" X 12" SUPPLY/RETURN AIR DEVICE AT LOCATION INDICATED. BALANCE TO CFM INDICATED. SEE NECK SIZE SCHEDULE AND DETAILS. TYPICAL.
- (17) PROVIDE JUMPER DUCT. TYP.
- (18) PROVIDE CONDENSATE LINE FROM PUMP TO FLOOR DRAIN IN JANITORS CLOSET.

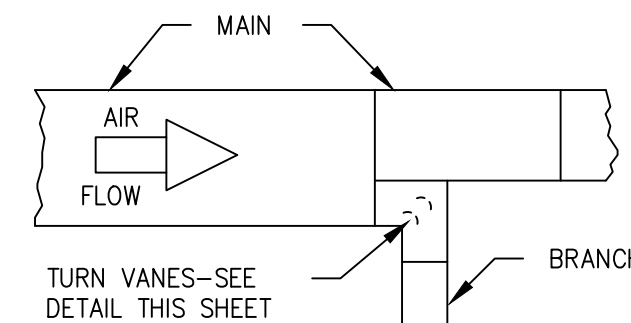
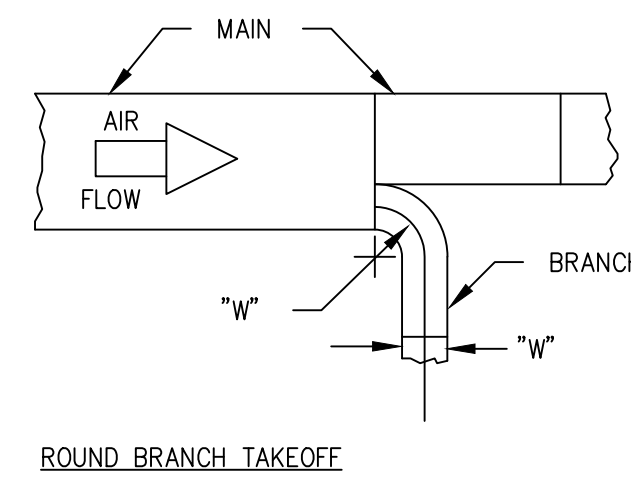
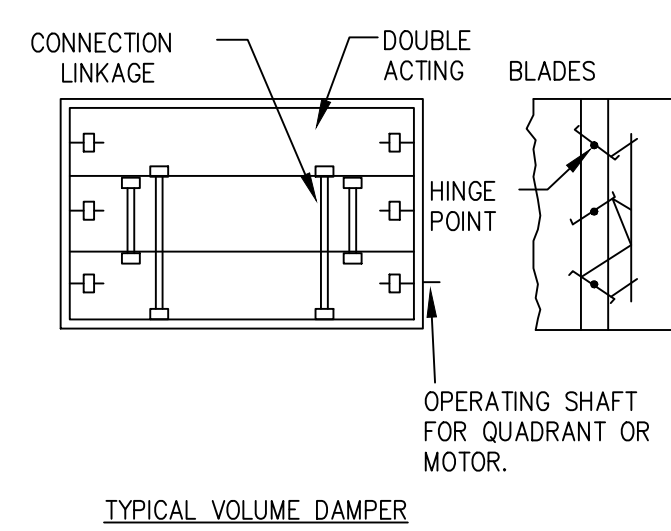
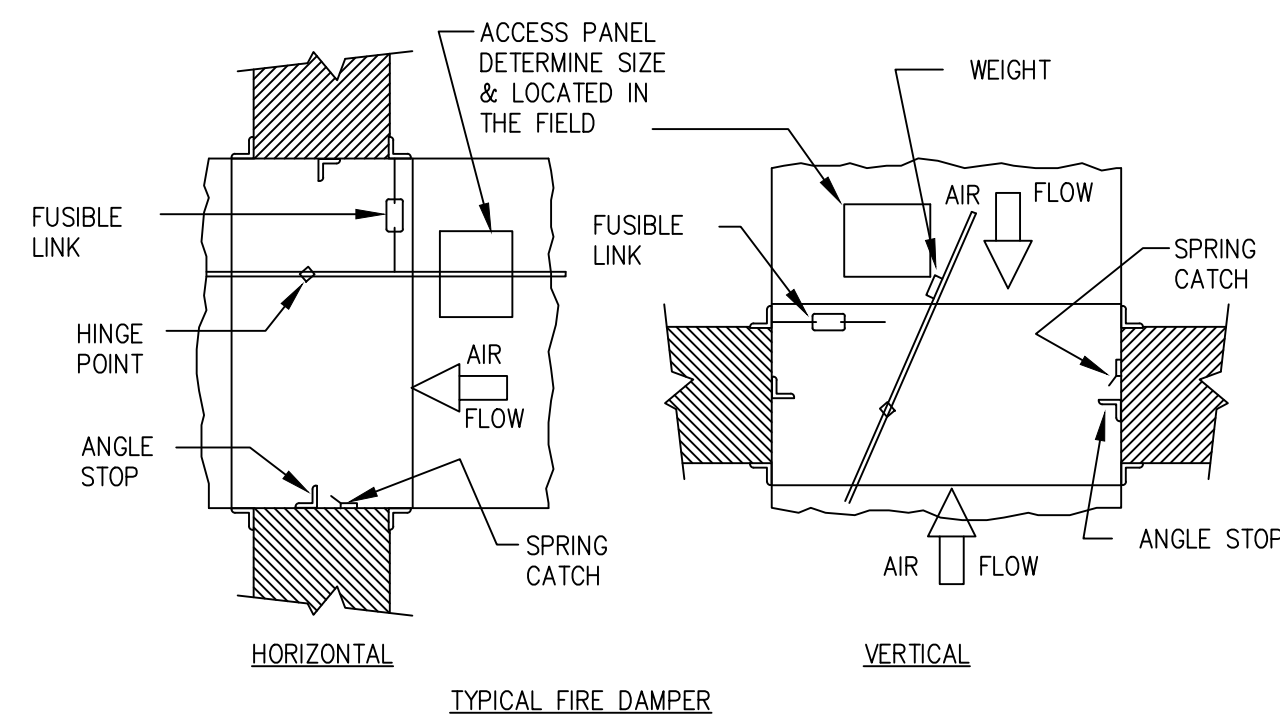
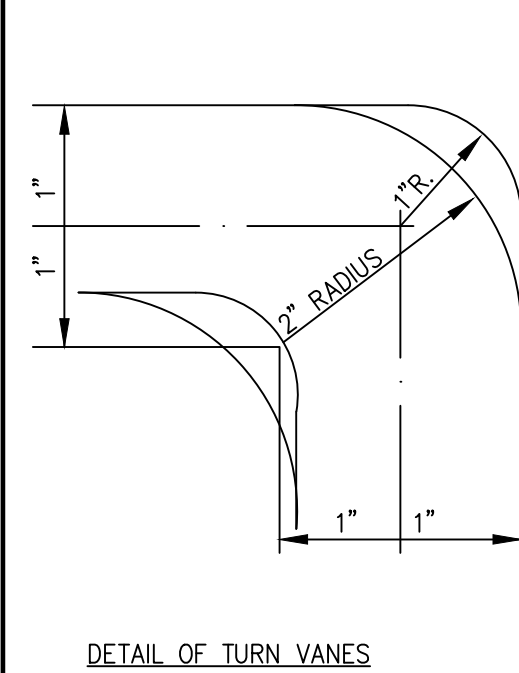
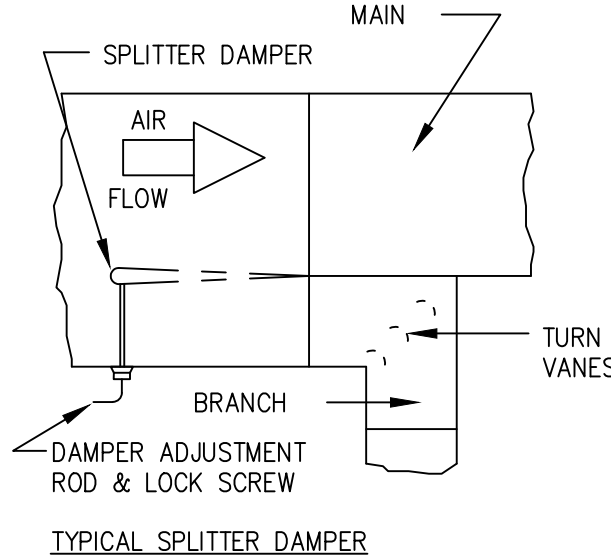
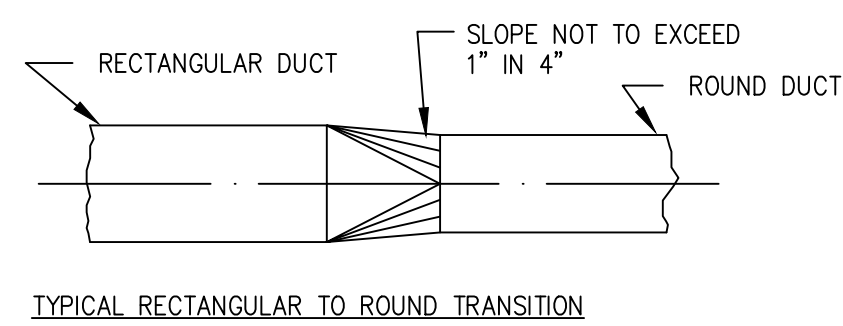
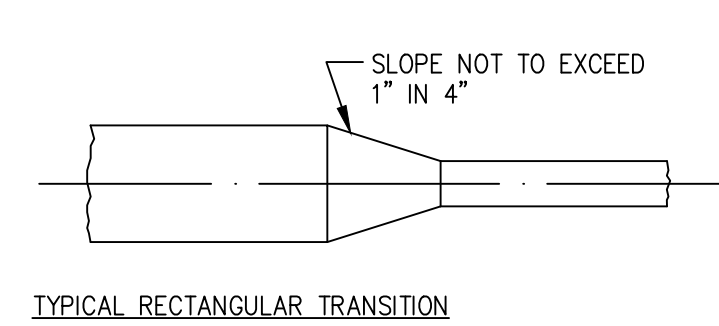
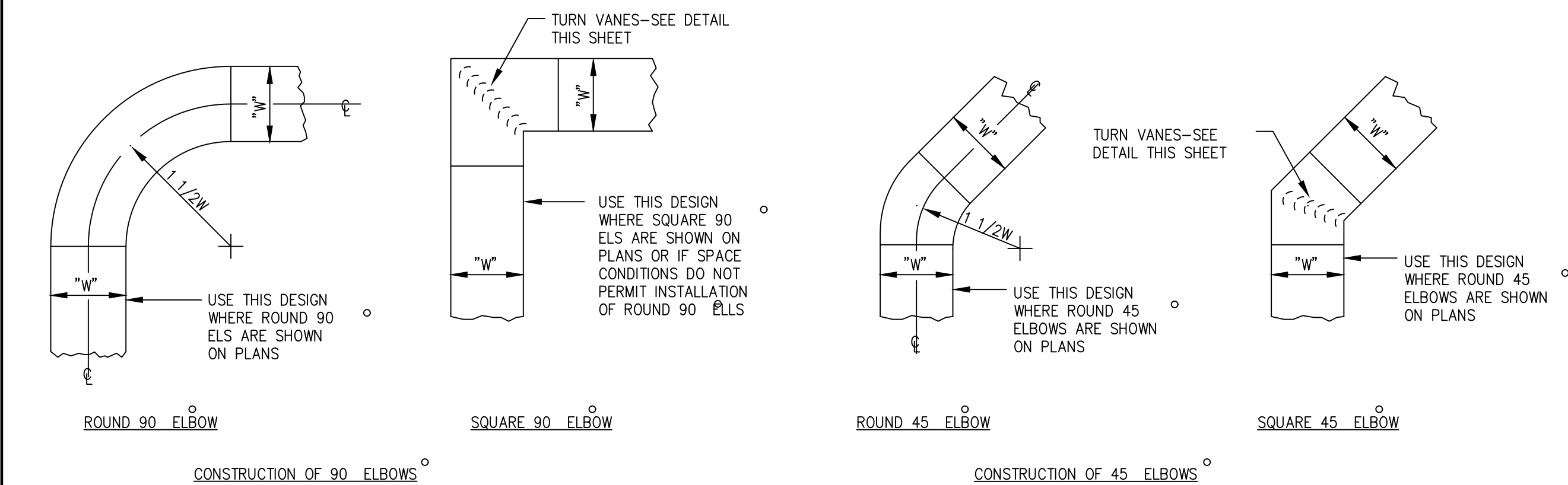
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ISSUED FOR BIDDING	06/24/2026
ISSUED FOR PERMIT	06/24/2026
ISSUED FOR CONSTRUCTION	07/13/2026

REVISIONS

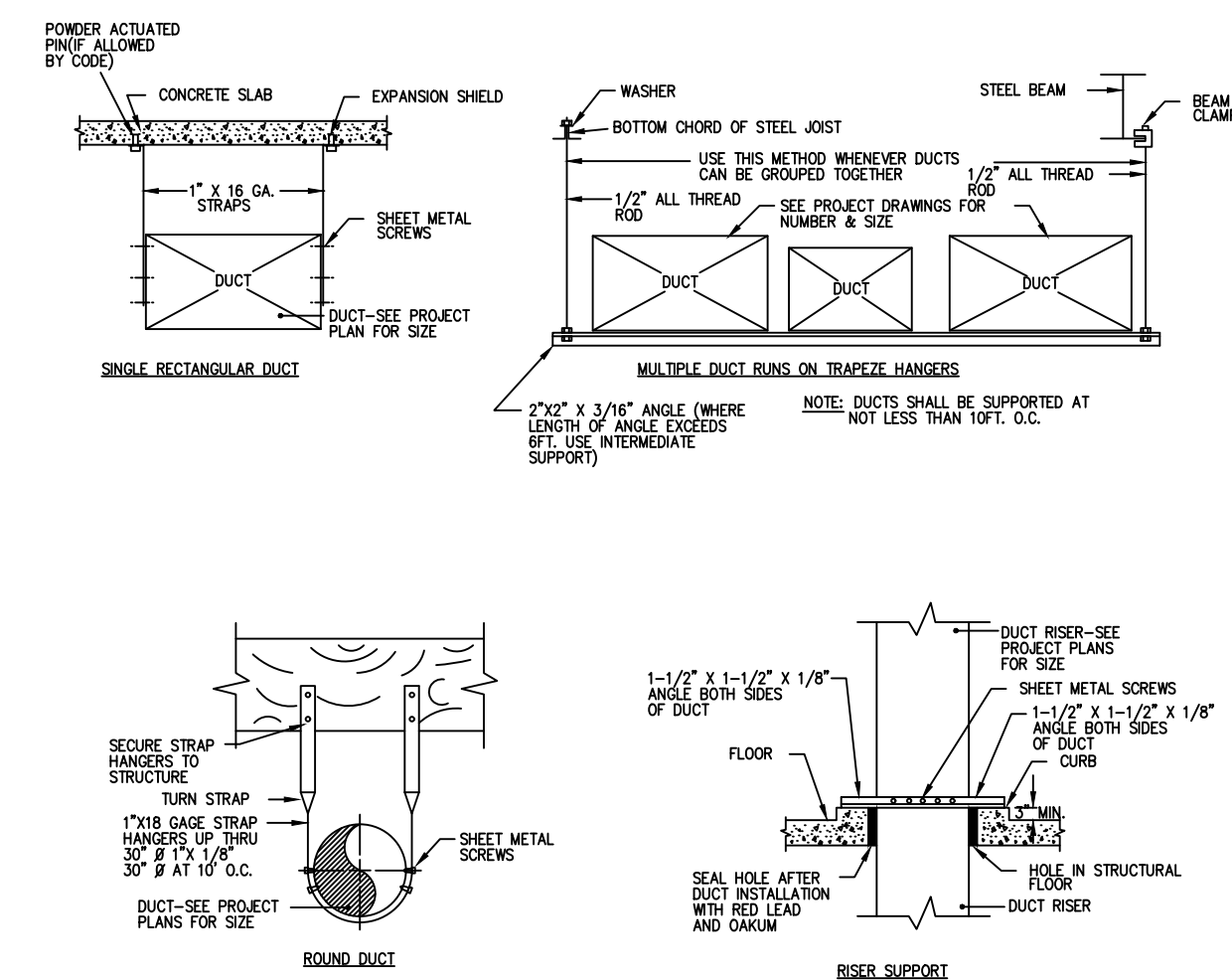
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DRAWING TITLE
MECHANICAL PLAN

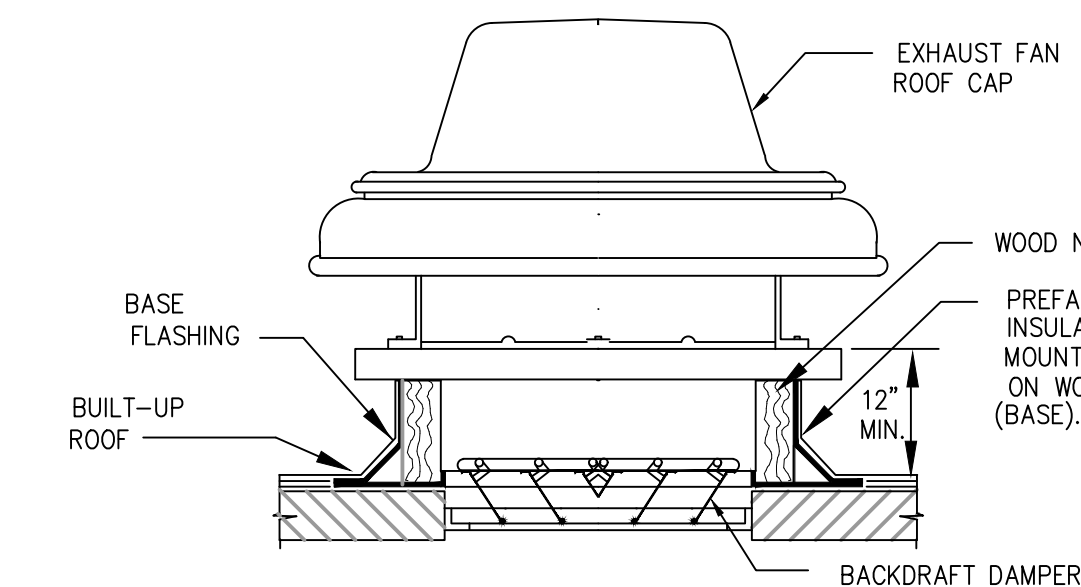
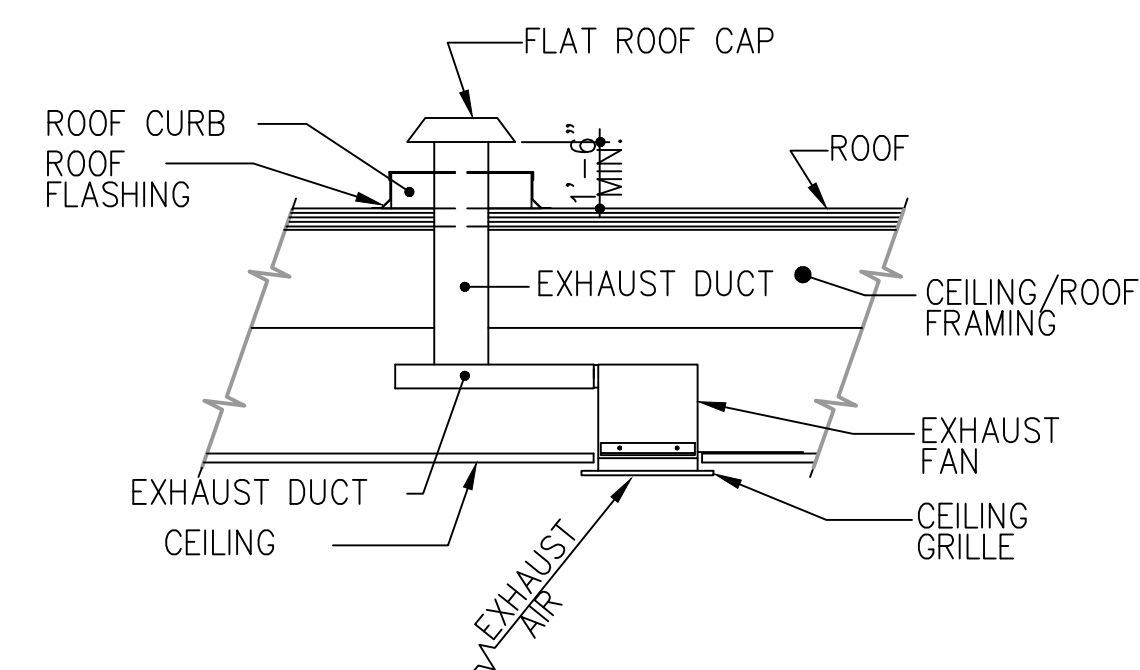
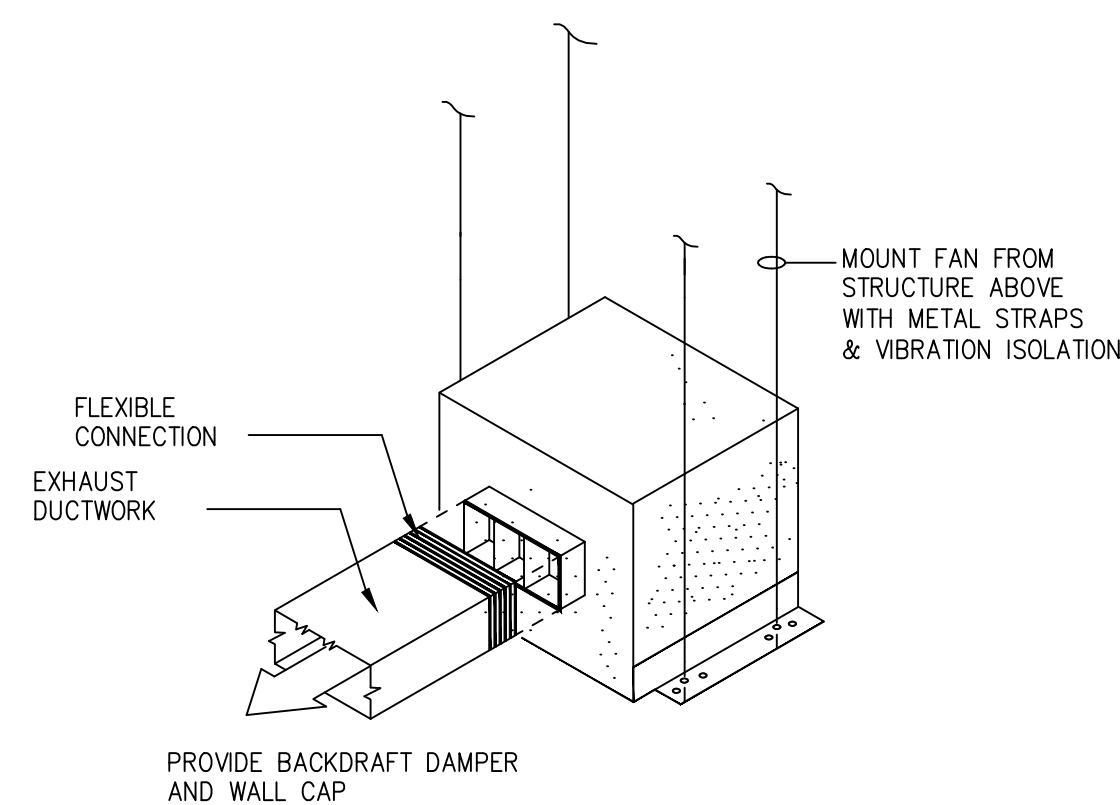
DESIGN TEAM		SHEET NO.
P.M.:	JG	M-2.10
MECHANICAL:	CC	
ELECTRICAL:	JG	
PLUMBING:	CC	
CHECKED-BY:	JG	



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



DETAILS OF THE LOW VELOCITY DUCT LAYOUT



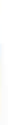
DUCT HANGERS AND SUPPORTS DETAIL 03



ARCHITECTURE PLANNING INTERIOR DESIGN

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

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Gulf Coast Educators
FEDERAL CREDIT UNION

9001 Spencer Highway
Deer Park, Texas 77571

E/B/E Project Number : 26081

	DATE
ISSUED FOR CLIENT APPROVAL	06/24/2026
ISSUED FOR BIDDING	06/24/2026
ISSUED FOR PERMIT	06/24/2026
ISSUED FOR CONSTRUCTION	07/13/2026

[illegible]

DRAWING TITLE	MECHANICAL DETAILS
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DESIGN TEAM
P.M.: JG
MECHANICAL: CC
ELECTRICAL: JG
PLUMBING: CC
CHECKED-BY: JG

SHEET NO.

M-3.00

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

P-126081GULFCOASTEDFCUDEERPARKTXArch12026-05-07 Handoff/GCEFCU - Deer Park - detached for consultant.rvt

	DATE
ISSUED FOR CLIENT APPROVAL	06/24/2026
ISSUED FOR BIDDING	06/24/2026
ISSUED FOR PERMIT	06/24/2026
ISSUED FOR CONSTRUCTION	07/13/2026

REVISIONS

[illegible]

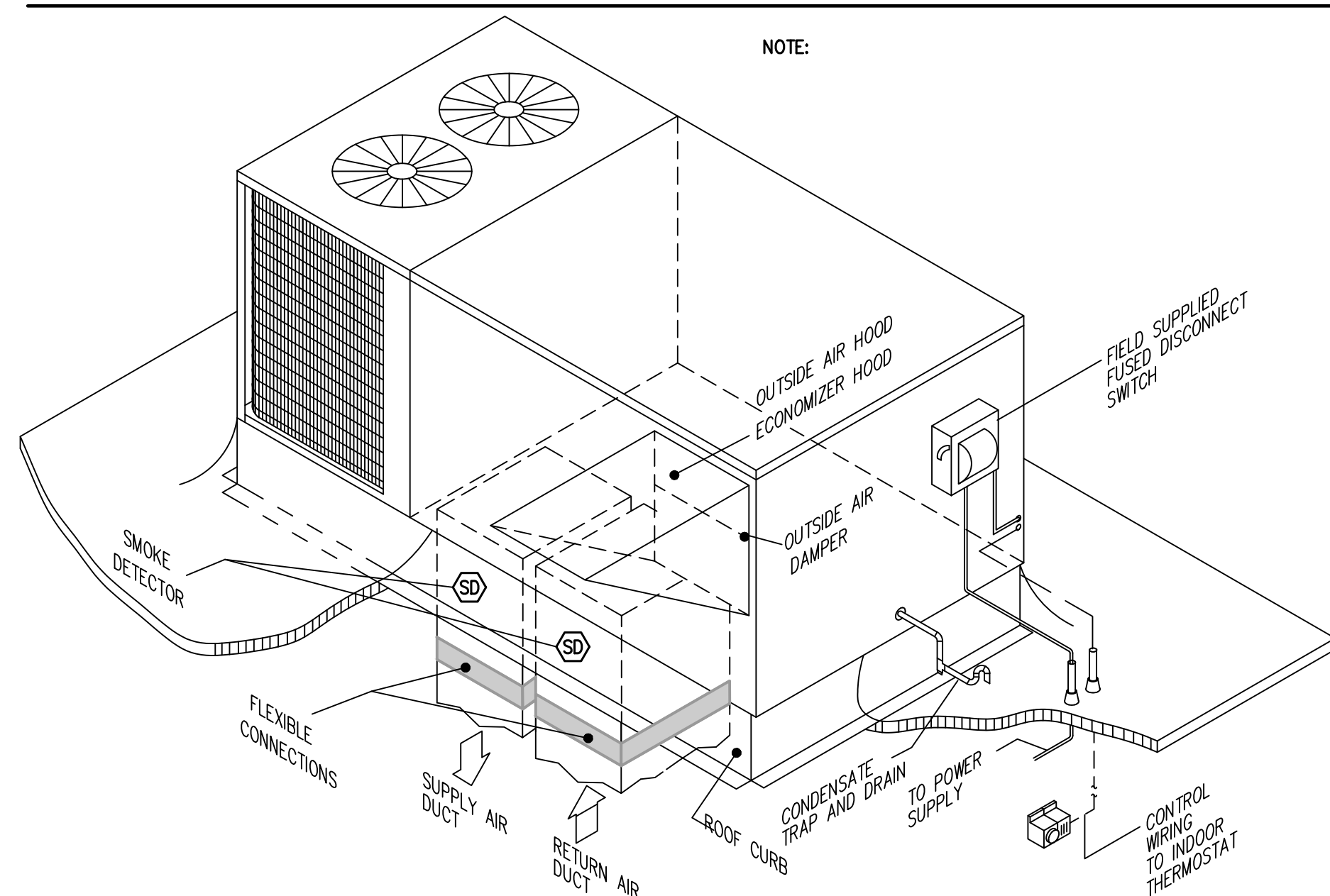
DRAWING TITLE

MECHANICAL DETAILS

DESIGN TEAM
P.M.: JG
MECHANICAL: CC
ELECTRICAL: JG
PLUMBING: CC
CHECKED-BY: JG

SHEET NO.

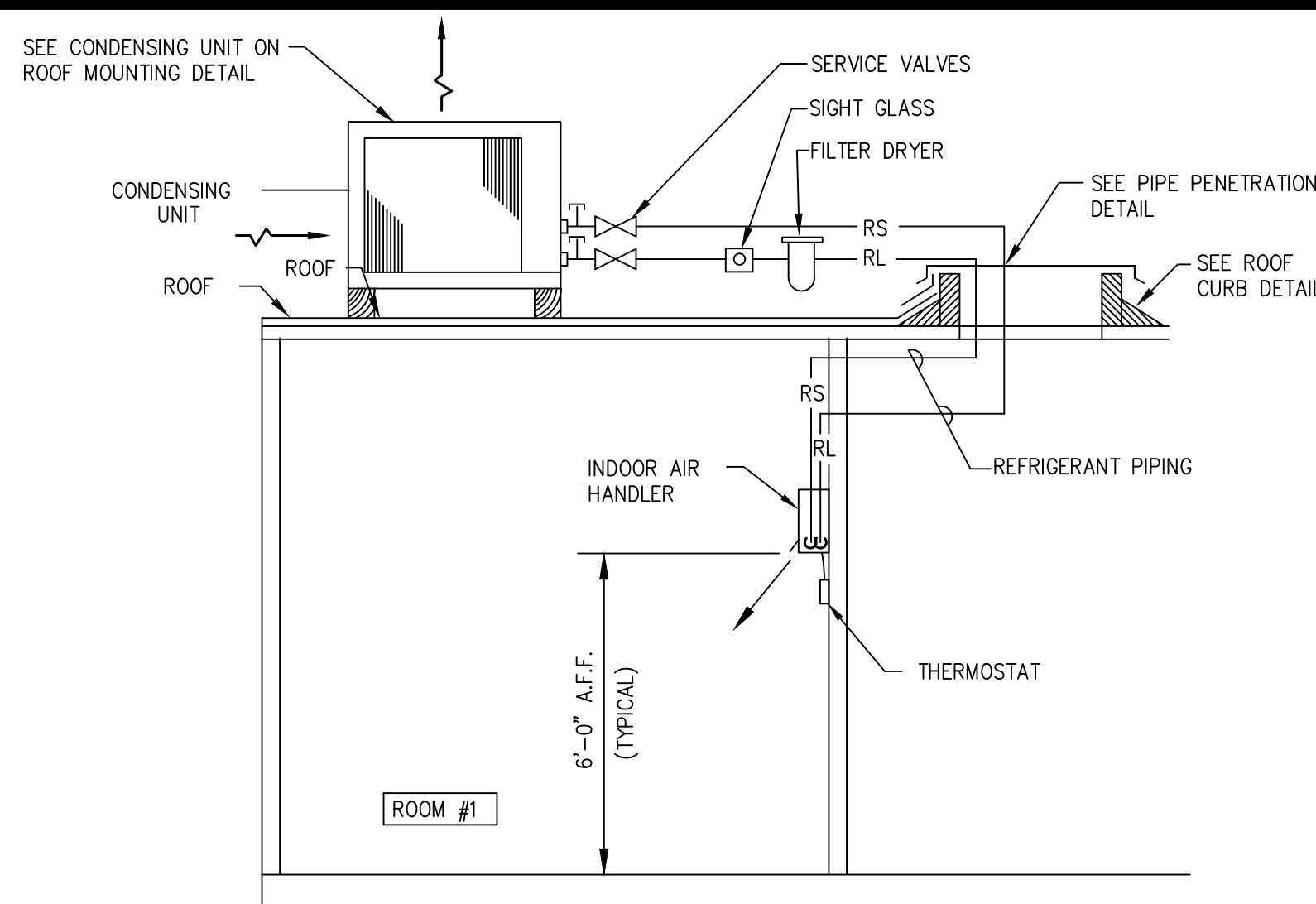
M-3.00



ROOFTOP PACKAGED HVAC UNIT DETAIL

SCALE: NONE

07



A/C SYSTEM WALL MONTED AIR HANDLING + ROOF MOUNTED CONDENSING UNIT

SCALE: NONE

08

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

3. 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 HOLE 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.

1. INTERIOR LIGHTS CONTROLLED BY MOTION SENSORS AS SHOWN, U.O.N..
2. TIMELOCK TO BE INTERMATIC ET2145C WITH FOUR INDEPENDENT OUTPUTS AND HOLIDAY FUNCTION.
TIME CLOCK FEATURES:
 - A. 365-DAY PROGRAMMABLE CLOCK WITH 48 ON/48 OFF FEATURES.
 - B. 365-DAY PROGRAMMABLE 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 #E2135W 2-HOUR ELECTRONIC COUNTDOWN TIMER SWITCH IN PARALLEL CONNECTION FOR OVERRIDE WHERE NOTED.
4. CIRCUITS TO BE CONTROLLED BY TIMELOCK OUTPUT WITH 2-HOUR TIMED OVERRIDE SWITCH.

1. ALL ITEMS SHOWN WITH HATCHED LINES INDICATE ITEMS TO BE DEMOLISHED. COORDINATE DEMOLITION WITH ALL TRADES.
2. LIGHTING FIXTURES INDICATED FOR DEMOLITION SHALL REMAIN PROPERTY OF THE BUILDING, U.O.N. REMOVE, PRESERVE, AND STORE THESE LIGHT FIXTURES ON SITE AS DIRECTED BY THE BUILDING OWNER.
3. LOCATION OF EXISTING EQUIPMENT, CONDUITS, OUTLETS, DEVICES, CONTROLS AND ALL CONCEALED WORKS, ETC. ARE APPROXIMATE.
4. NOT ALL CIRCUITS AND DEVICES ARE INDICATED. FOR EACH DEVICE INDICATED FOR DEMOLITION THERE IS A CIRCUIT OR FEEDER BACK TO THE POINT OF ORIGIN. ALL CIRCUITS AND DEVICES SHALL BE DEMOLISHED UNLESS NOTED OTHERWISE. RETAIN AND PROTECT LIGHTING AND RECEPTACLE BRANCH CIRCUITS FOR USE IN THE NEW WORK. BRANCH CIRCUITS FOR LIGHTING AND RECEPTACLES NOT USED IN THE NEW WORK SHALL BE REMOVED BACK TO SOURCE. RETAIN AND PROTECT FIRE ALARM DEVICE FOR REUSE IN THE NEW WORK.
5. EXISTING PIPING AND OR CONDUIT RUN CONCEALED IN FLOOR SLAB AND NOT INDICATED OR REQUIRED TO BE REUSED IN THE NEW WORK SHALL BE ABANDONED UNLESS NOTED OTHERWISE. CUT PIPING AND CONDUIT AT FLOOR. ALL REPAIRS SHALL BE BY TRADES SKILLED IN FINISH WORK. MODIFY EXISTING OPENINGS TO BE REUSED IN THE NEW WORK BY SAW CUTTING OR CORING.
6. REMOVE ALL ACCESSIBLE ABANDONED WIRING OF ALL TYPES, OR CAP AND LABEL IN JUNCTION BOX FOR RE-USE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE.
7. MAINTAIN AND RESTORE IF INTERRUPTED, ALL CONDUITS AND CIRCUITS PASSING THROUGH RENOVATED AREAS AND SERVICING UNDISTURBED AREAS.
8. ALL OPENINGS AND SURFACES MADE BARE BY DEMOLITION AND/OR REMOVAL OF OUTLETS, EQUIPMENT, CONTROLS, ETC., SHALL BE REPAIRED OR PATCHED TO MATCH ADJACENT FINISH. ALL REPAIRS AND NEW FINISH SHALL BE BY TRADES SKILLED IN FINISH WORK.
9. ALL OPENINGS IN RATED CONSTRUCTION NOT USED IN THE NEW WORK SHALL BE CLOSED WITH FIRE RATED MATERIAL TO MATCH ADJACENT FINISH AND NEW CONSTRUCTION. MODIFY EXISTING OPENINGS TO BE REUSED IN THE NEW WORK BY SAW CUTTING.
10. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL SAFETY CODE (ANSI/JEE C-2) AND THE NATIONAL ELECTRICAL CODE (NFPA 70).

SYMBOL	DESCRIPTION
FCA - XXXXXA FOLT - XXXXXA MIN I.C. - XXXXXA	FAULT CURRENT CALCULATION RESULTS.
	CONDUIT RUN CONCEALED IN WALLS OR ABOVE CEILING. ARROW INDICATES HOMERUN TO PANEL. CONDUCTOR DESIGNATIONS ARE AS FOLLOWS: LONG HATCH INDICATES NEUTRAL, SHORT HATCH INDICATES PHASE, " " INDICATES INSULATED OR ISOLATED GROUND, " " INDICATES SWITCHLEG, AND NO HATCHES INDICATES TWO CONDUCTORS.
	PARTIAL HOMERUN. SAME AS ABOVE.
	CONDUIT RUN CONCEALED IN FLOOR SLAB, BELOW FLOOR SLAB OR BELOW GRADE. WIRING SAME AS ABOVE.
	DUPLEX RECEPTACLE OUTLET; 20 AMP, 125V, 3 WIRE, GROUNDED TYPE.
	QUADRUPLUX RECEPTACLE OUTLET GANGED WITH A COMMON WALL PLATE; (2)-20 AMP, 125V, 3 WIRE, GROUNDED TYPE.
	DUPLEX RECEPTACLE OUTLET WITH GROUND FAULT INTERRUPTER; 20 AMP, 125V, 3 WIRE GROUNDED TYPE.
	JUNCTION BOX MOUNTED ABOVE ACCESSIBLE CEILING.
	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:

- ALL SYMBOLS MAY NOT BE USED ON THIS DRAWINGS.
- REFER TO SPECIFICATIONS FOR MOUNTING HEIGHTS

SYMBOL	DESCRIPTION
	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.
	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.

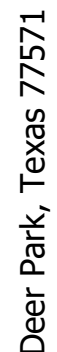
MARK	CONTROL DESCRIPTION	CONTROL DEVICES	SEQUENCE OF OPERATION
1	VACANCY SENSING SPUT—CIRCUIT CONTROLLED	16352—1PX (20A, 125V, SPUT—CIRCUIT MARKED CONTROLLED DUPLEX RECEPTACLE) RMJS—20R—DV—B (RECEPTACLE CONTROL POWER PACK WITH WIRELESS RECEIVER)	TOP HALF OF ALL RECEPTACLES IN THIS ROOM ARE TO BE AUTO—ON/AUTO—OFF CONTROLLED BY THE RECEPTACLE CONTROL POWER PACK RECEIVING INPUTS FROM THE LIGHTING CONTROL SENSOR IN THE ROOM, REFER TO LIGHTING PLAN. BOTTOM HALF TO REMAIN UNSWITCHED. PC/DEDICATED/EQUIPMENT POWER SHALL REMAIN UNSWITCHED.
3A	VACANCY SENSING QUADRAPLEX PC RECEPTACLES FULLY CONTROLLED	16352—2PX (20A, 125V, MARKED CONTROLLED DUPLEX RECEPTACLE) RMJS—20R—DV—B (RECEPTACLE CONTROL POWER PACK WITH WIRELESS RECEIVER)	ALL GENERAL PURPOSE RECEPTACLES IN THIS ROOM ARE TO BE AUTO—ON/AUTO—OFF CONTROLLED BY THE RECEPTACLE CONTROL POWER PACK RECEIVING INPUTS FROM THE LIGHTING CONTROL SENSOR IN THE ROOM, REFER TO LIGHTING PLAN. DESIGNATED PC RECEPTACLE TO REMAIN ENTIRELY UNSWITCHED.

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) LRF2-0CR2B-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) LRF2-0CR2B-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.
4B	CEILING MOUNTED VACANCY SENSING WITH DIMMING	PJ2-2BRL-GXX-L01 (WIRELESS REMOTE SWITCH WITH DIMMING) LRF2-0CR2B-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.

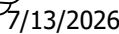
LABEL	MANUFACTURER + SPECIFICATION	MOUNTING	LAMP (NO./TYPE)	VOLTS	REMARKS
A	HE WILLIAMS FT-24-LS/8CS-AF-QS-DIM-UNV	RECESSED	LED (48 WATT MAX.)	277	CENTER BASKET LED 2'X4' LIGHT FIXTURE. 0-10V. DIMMABLE.
AE	SAME ABOVE WITH 90-MINUTE BATTERY PACK	RECESSED	LED (48 WATT MAX.)	277	SAME AS ABOVE WITH 90-MINUTE BATTERY PACK
D1	HE WILLIAMS 4DR-TL-L20/835-DIM1-UNV-OW-OF-CS-N-F1	RECESSED	LED (28 WATT MAX.)	277	4" ROUND DOWNLIGHT
D1E	SAME ABOVE WITH 90-MINUTE BATTERY PACK	RECESSED	LED (28 WATT MAX.)	277	SAME AS ABOVE WITH 10W. 90-MINUTE BATTERY PACK
T	LEDI V5-SPEC-15-35-CUSTOM/DR-96W-24V-DIMALL	SURFACE	LED (1.5W./FT)	277	LED DECORATIVE TAPE LIGHT
UC	HE WILLIAMS 1SF-4-L24/835-DMA-DRV-UNV	SURFACE	LED (21W.)	277	4' UC CABINET LIGHT FIXTURE, LED
X	HE WILLIAMS EXIT/EL-DFR-MP-AN-EM-D	SURFACE	LED (<5W.)	277	PROVIDE WITH 90-MINUTE BATTERY BACK. MATCH DIRECTIONAL ARROWS AS NOTED ON PLANS.
EM1	T.B.D.	SURFACE	LED (<5W.)	277	EMERGENCY EGRESS LIGHT WITH 90-MINUTE BATTERY PACK. NORMALLY OFF.
EM2	T.B.D.	SURFACE	LED (<5W.)	277	WET LISTED EMERGENCY EGRESS LIGHT WITH 90-MINUTE BATTERY PACK. NORMALLY OFF.

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



E/B/E Project Number : 26081

ISSUED FOR CLIENT APPROVAL	DATE 06/24/2026
ISSUED FOR BIDDING	06/24/2026
ISSUED FOR PERMIT	06/24/2026
ISSUED FOR CONSTRUCTION	07/13/2026

[illegible]

ELECTRICAL INFORMATION

DESIGN TEAM
P.M.: JG
MECHANICAL: CC
ELECTRICAL: JG
PLUMBING: CC
CHECKED-BY: JG

SHEET NO

E-1.00



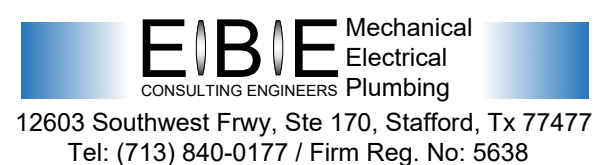
- 1 PROVIDE ON/OFF TOGGLE SWITCH AT THIS LOCATION.
- 2 CROSS HATCHING INDICATES EMERGENCY LIGHTING. FIXTURE TO BE CONNECTED TO UN-SWITCHED HOT CONDUCTOR WITH 2#10, 1/2" C. PROVIDE FIXTURE WITH 90 MINUTE EMERGENCY BATTERY PACK. FIXTURE TO BE SWITCHED AS SHOWN UNDER NORMAL CONDITIONS.
- 3 CROSS HATCHING 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 2-HOUR TIMECLOCK OVERRIDE SWITCH. REFER TO LIGHTING CONTROL NOTES FOR MORE INFORMATION.



DESIGN TEAM	
P.M.:	JG
MECHANICAL:	CC
ELECTRICAL:	JG
PLUMBING:	CC
CHECKED-BY:	JG

SHEET NO.
E-2.00

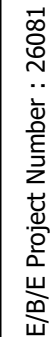
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12603 Southwest Frwy, Ste 170, Stafford, Tx 77477
Tel: (713) 840-0177 / Firm Reg. No: 5638

- 1 PROVIDE AND INSTALL LEGRAND OMNIBOX CAST IRON, FULLY ADJUSTABLE AND RATED FOR SLAB ON GRADE FLUSH FLOOR FIRE RATED POKE-THRU WITH POWER AND VOICE/DATA CAPABILITIES. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH TENANTS FURNITURE VENDOR PRIOR TO THE PURCHASE OF MATERIALS.
- 2 CONFIRM A RECEPTACLE EXISTS WITHIN 25 FEET OF ALL MECHANICAL EQUIPMENT, OTHERWISE, ADD AS SHOWN.
- 3 PROVIDE POWER THROUGH FLOOR TO FURNITURE. PROVIDE AND INSTALL CAST IRON, FULLY ADJUSTABLE AND RATED FOR SLAB ON GRADE FLUSH FLOOR FIRE RATED POKE-THRU WITH POWER AND VOICE/DATA CAPABILITIES TO CONFERENCE TABLE. ENSURE POINT-TO-POINT WITH FIBERNET TO NEWB CONNECTION TO TELEVISION AS REQUIRED. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH TENANTS FURNITURE VENDOR PRIOR TO THE PURCHASE OF MATERIALS AND PROVIDE ACCORDINGLY.

7/13/2026

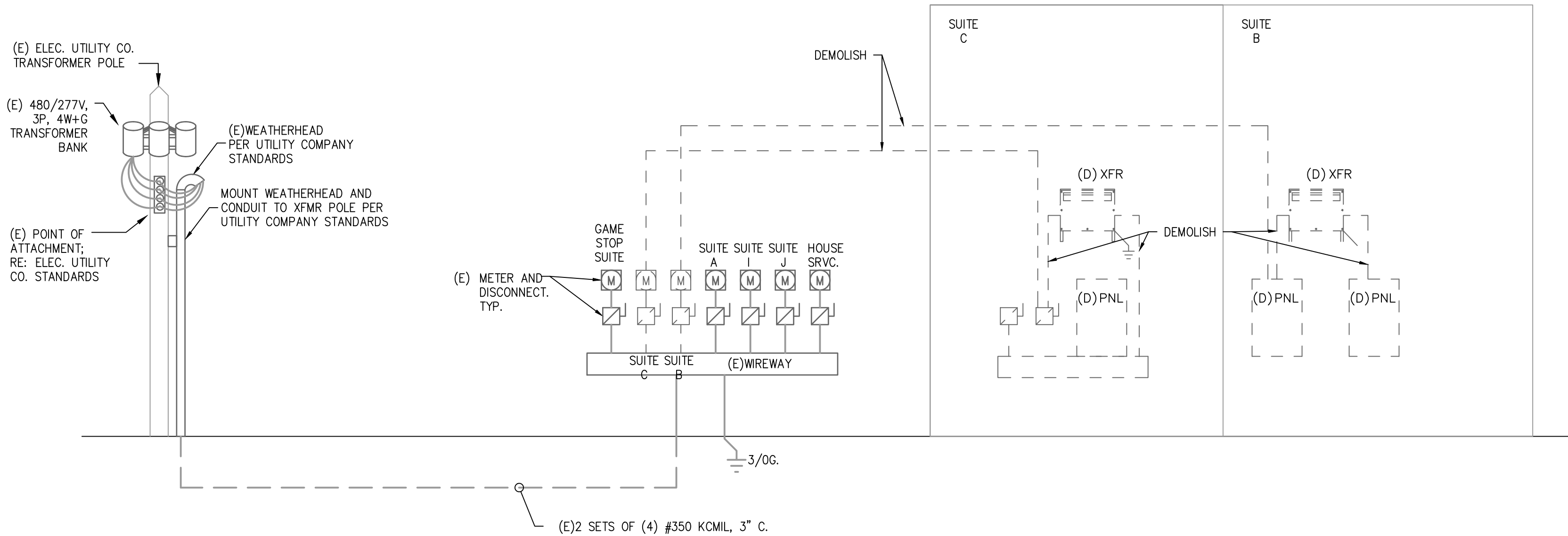
E-3.00

ELECTRICAL LOAD ANALYSIS					
PROJECT NAME: GULF COAST EDUCATORS FCU					
PROJECT NUMBER: 26081.00					
SERVICE VOLTAGE: 277/480V, 3 PHASE, 4 WIRE, WYE					
SERVICE RATING: 100 AMPS					
GROSS AREA: 2,444 SQUARE FEET					
LOAD DESCRIPTION	CODE LOAD (kVA)	CONNECTED LOAD (kVA)	DEMAND FACTORS (%)	DESIGN LOAD (kVA)	REMARKS
LIGHTS (1.3 VA/FT2):	3.2	2.4	125%	4.0	NEC 220.42, 43, 44, 45
SIGN LIGHTS:		0.0	125%	0.0	NEC 220.14.F
SITE LIGHTS:		0.0	125%	0.0	NEC 220.42, 43, 44, 45
RECEPTACLES:	2.4	5.8	10kVA+50%	5.8	NEC 220.14.H, I, J, K, 220.47
EQUIPMENT:		8.4	100%	8.4	NEC 220.14.A
WATER HEATERS:		2.0	100%	2.0	NEC 220.14.A
HVAC:		26.2	100%	26.2	NEC 220.14.C, 220.50
ELECTRIC HEAT:		0.0	100%	0.0	NEC 220.51
LARGEST MOTOR:		0.0	125%	0.0	NEC 430.22
TOTAL DESIGN LOAD:				46	kVA
480V, 3 PHASE:				56	AMPS

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

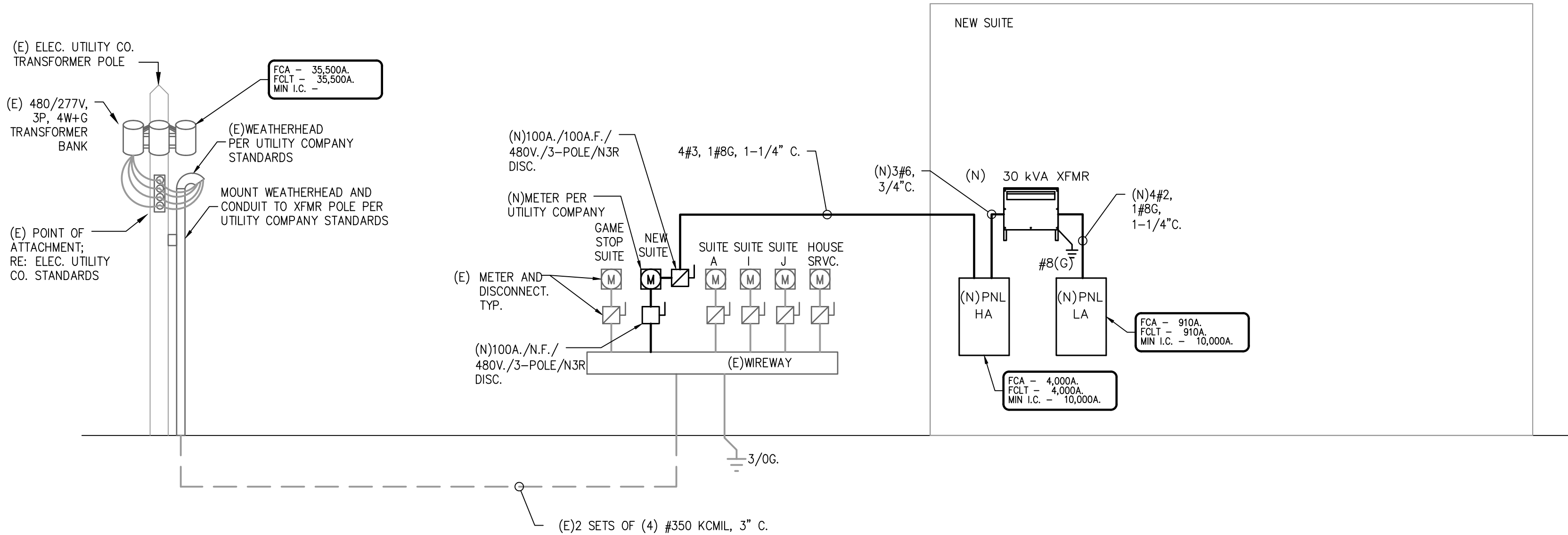
PROJECT NAME: GULF COAST EDUCATORS FCU												
PROJECT NUMBER: 26081.00												
PANEL: HA NEW PANEL												
VOLTAGE: 277/480V, 3PH, 4W BUS: 100 AMP MAINS: 100A. M.C.B. ACCESSORIES: INSULATED GROUND												
NEMA: 1 S.C.C.R: 10KAIC												
CODES: 0=LIGHTS 1=RECEP 2=EQUIP 3=A/C 4=HTG 5=125% LGST MTR 6=KITCHEN 7=PREVIOUSLY CALCULATED												
CODE	LOAD	CIRCUIT DESCRIPTION			BKR	OKT/PH/CKT	BKR	CIRCUIT DESCRIPTION	LOAD	CODE		
0	1792	OFFICE LIGHTS			20/1	1 A 2	30/3	RTU-1	5540	3		
0	620	LOBBY LIGHTS			20/1	3 B 4	--	--	5540	3		
4	2000	EWH-1			20/1	5 C 6	--	--	5540	3		
		SPARE			20/1	7 A 8	20/1	SPARE				
		SPARE			20/1	9 B 10	20/1	SPARE				
		SPARE			20/1	11 C 12	20/1	SPARE				
		SPARE			20/1	13 A 14	20/1	SPARE				
		SPARE			20/1	15 B 16	20/1	SPARE				
		SPARE			20/1	17 C 18	20/1	SPARE				
		SPARE			20/1	19 A 20	50/3	PANEL LA VIA 30KVA	8896	7		
		SPARE			20/1	21 B 22	--	--	6571	7		
		SPARE			20/1	23 C 24	--	--	8267	7		
		LIGHTS	RECEP.	EQUIP.	MOTORS	EL. HEAT	PHASE	PHASE	CONN.KVA	LOAD FACTORS	DES. KVA	DES. AMP
	1792	0	0	0	5540	0	A	A	16.2	LIGHTS @ 125%	7.8	28
	620	0	0	0	5540	0	B	B	12.7	EQUIP. @ 100%	6.3	23
	0	0	0	0	5540	2000	C	C	15.8	L.G. MOTOR @125%	7.5	27
	2412	0	0	0	16620	2000	TOTAL	TOTAL	44.8	RECEPS @ 10kW+50%	21.6	26
SUB-FEED PANELS:												
							PANEL NAME	S.F. KVA	LOAD FACTORS	DES. KVA	DES. AMP	
							PANEL LA	23.7	SUB FEED @ 100%	23.7	29	
							GRAND TOTAL			45.4	55	

PROJECT NAME: GULF COAST EDUCATORS FCU										
PROJECT NUMBER: 26081.00										
PANEL: LA NEW PANEL										
VOLTAGE: 120/208V, 3PH, 4W BUS: 100 AMP MAINS: 100A. M.C.B. ACCESSORIES: INSULATED GROUND										
NEMA: 1 S.C.C.R: 10KAIC										
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	OKT/PH/CKT	BKR	CIRCUIT DESCRIPTION	LOAD	CODE		
6	800	REF *GFCI BREAKER*	20/1	1 A 2	20/1	ITM	1200	2		
1	360	BREAK ROOM GP	20/1	3 B 4	20/1	ITM	600	2		
1	540	BREAK ROOM GP	20/1	5 C 6	20/1	OFFICE PC	1200	2		
2	800	DATA DEDICATED	20/1	7 A 8	20/1	OFFICE G.P.	720	1		
2	800	DATA DEDICATED	20/1	9 B 10	20/1	LOBBY PC	1200	2		
3	3456	RTU-2	40/2	11 C 12	20/1	LOBBY GP	720	1		
3	3456	--	--	13 A 14	20/1	CONFERENCE GP	720	1		
3	1331	CU-1	30/2	15 B 16	20/1	EDF *GFCI BREAKER*	1200	2		
3	1331	--	--	17 C 18	20/1	RR GFCI	360	1		
2	300	EF-1,2,3	20/1	19 A 20	20/1	WORK AREA GP QUAD	720	1		
		SPARE	20/1	21 B 22	20/1	WORK AREA GP QUAD	720	1		
		SPARE	20/1	23 C 24	20/1	WORK AREA GP	360	1		
		SPARE	20/1	25 A 26	20/1	ELECTRICAL GP	180	1		
		SPARE	20/1	27 B 28	20/1	ELECTRICAL GP	360	1		
		SPARE	20/1	29 C 30	20/1	WORK AREA PC	300	2		
		SPARE	20/1	31 A 32	20/1	SPARE				
		SPARE	20/1	33 B 34	20/1	SPARE				
		SPARE	20/1	35 C 36	20/1	SPARE				
		SPARE	20/1	37 A 38	20/1	SPARE				
		SPARE	20/1	39 B 40	20/1	SPARE				
		SPARE	20/1	41 C 42	20/1	SPARE				
		LIGHTS				PHASE	CONN.KVA	LOAD FACTORS	DES. KVA	DES. AMP
	0	2340	3100	3456	0	A	8.9	LIGHTS @ 125%	8.9	74
	0	1440	3800	1331	0	B	6.6	EQUIP. @ 100%	6.6	55
	0	1980	1500	4787	0	C	8.3	L.G. MOTOR @125%	8.3	69
	0	5760	8400	9574	0	TOTAL	23.7	RECEPS @ 10kW+50%	23.7	66



01 ELECTRICAL DISTRIBUTION DIAGRAM - DEMOLITION

SCALE: NO SCALE



02 ELECTRICAL DISTRIBUTION DIAGRAM - NEW WORK

SCALE: NO SCALE

ELECTRICAL DISTRIBUTION DIAGRAM NOTES:

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



ARCHITECTURE PLANNING INTERIOR DESIGN

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

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9001 Spencer Highway

Deer Park, Texas 77571

Suites B & C

E/B/E Project Number : 26081

ISSUED FOR CLIENT APPROVAL	DATE
ISSUED FOR BIDDING	06/24/2026
ISSUED FOR PERMIT	06/24/2026
ISSUED FOR CONSTRUCTION	07/13/2026

REVISIONS

MARK	DESCRIPTION	DATE
	50% REVIEW SET	05/19/2026
	90% REVIEW SET	06/12/2026
	FINAL REVIEW SET	07/02/2026
	PERMIT SET	07/13/2026



DRAWING TITLE

ELECTRICAL SCHEDULES

DESIGN TEAM

P.M.: JG

MECHANICAL: CC

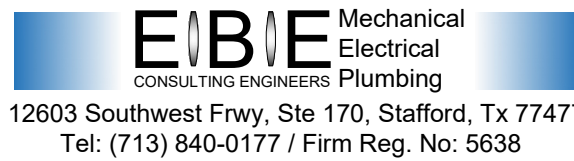
ELECTRICAL: JG

PLUMBING: CC

CHECKED-BY: JG

SHEET NO.

E-4.00

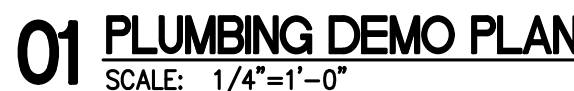


12603 Southwest Fwy., Ste 170, Stafford, Tx 77477
Tel: (713) 840-0177 / Firm Reg. No: 5638

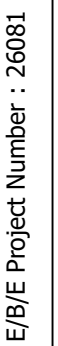
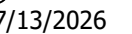


NOTE:
NO HUB COUPLING SHALL HAVE A SHIELD CONSTRUCTED OF 304 CORRUGATED STAINLESS STEEL WITH A MINIMUM THICKNESS OF .016. COUPLING SIZE 1-1/2" - 4" SHALL HAVE FOUR (4) BANDS: APPROVED MANUFACTURES HUSKY SD 4000 AND MISSION. NO TWO BANDS ARE ACCEPT

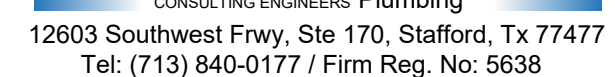
WATER HEATER SCHEDULE



- 1 DEMOLISH EXISTING LAVATORY. CUT AND CAP WASTE AND WATER CONNECTIONS BACK TO POINT OF USE AS REQUIRED.
- 2 DEMOLISH EXISTING WATER CLOSET. CUT AND CAP WASTE AND WATER CONNECTIONS BACK TO POINT OF USE AS REQUIRED.
- 3 DEMOLISH EXISTING FIXTURE. CUT AND CAP WASTE AND WATER CONNECTIONS BACK TO POINT OF USE AS REQUIRED.
- 4 DEMOLISH EXISTING WATER HEATER. CUT AND CAP WASTE AND WATER CONNECTIONS BACK TO POINT OF USE AS REQUIRED.
- 5 DEMOLISH EXISTING FLOOR SINK. CUT AND CAP WASTE AND WATER CONNECTIONS BACK TO POINT OF USE AS REQUIRED.
- 6 NEW WATER HEATER SUSPENDED ABOVE ACCESSIBLE CEILING. COORDINATE WITH MEP IN THE AREA. REFER TO DETAILS.
- 7 CONNECT NEW 1" COLD WATER TO EXISTING WATER ABOVE CEILING. VERIFY SIZE AND LOCATION PRIOR TO START OF WORK.
- 8 PROVIDE NEW 2" VENT TO THROUGH ROOF.
- 9 CONNECT NEW 4" WASTE TO EXISTING WASTE BELOW SLAB. BYPASS EXISTING GREASE TRAP. VERIFY SIZE AND LOCATION PRIOR TO START OF WORK.
- 10 EXISTING GREASE TRAP TO REMAIN. CAP EXISTING INLET LINE.
- 11 REFRIGERATOR BY OTHERS - PLUMBING CONTRACTOR TO PROVIDE COLD WATER CONNECTION CONSISTING OF 1/2" X 3/8" ANGLE PATTERN COMPRESSION STOP 12" A.F.F. (RVB-1)

[illegible]

P-2.00



	DATE
ISSUED FOR CLIENT APPROVAL	06/24/2026
ISSUED FOR BIDDING	06/24/2026
ISSUED FOR PERMIT	06/24/2026
ISSUED FOR CONSTRUCTION	07/13/2026

REVISIONS

[illegible]

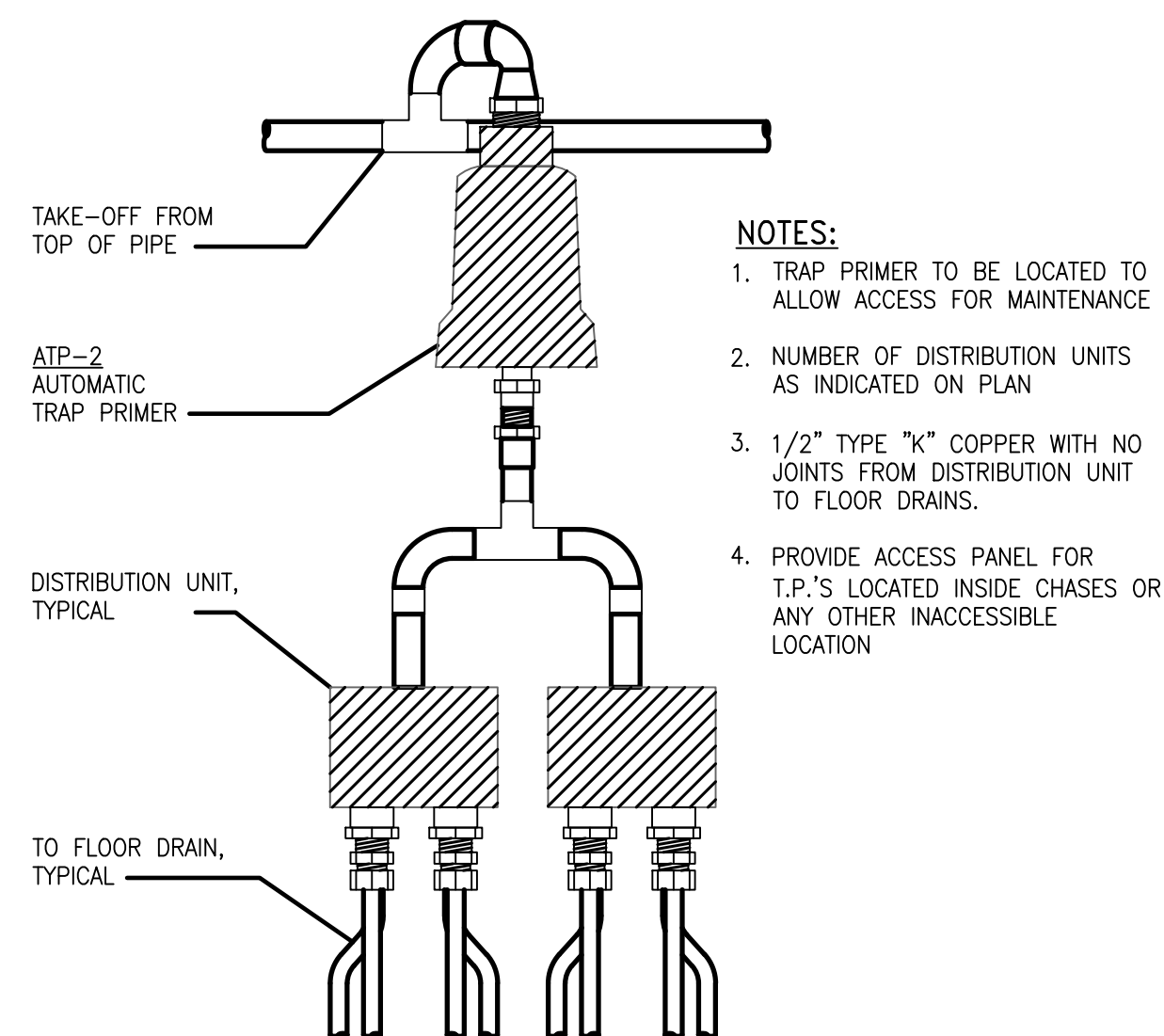
DRAWING TITLE

PLUMBING DETAILS

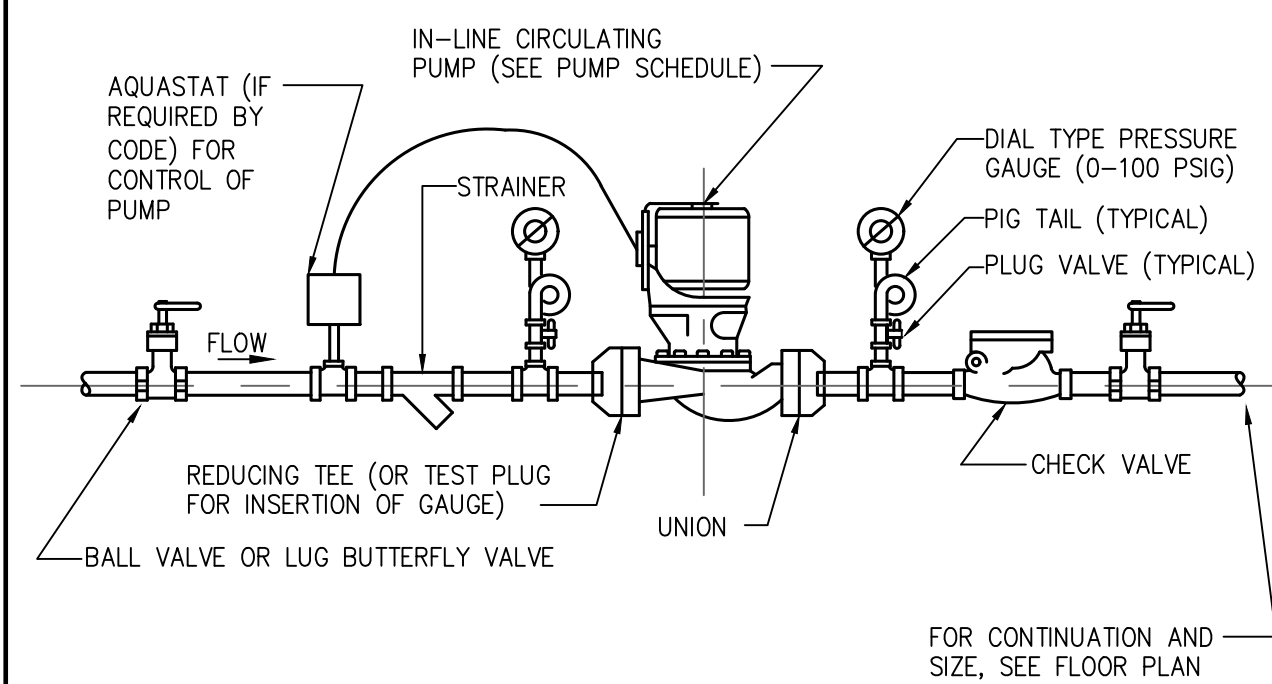
DESIGN TEAM	
P.M.:	JG
MECHANICAL:	CC
ELECTRICAL:	JG
PLUMBING:	CC
CHECKED-BY:	JG

SHEET NO.

P-3.00



TRAP PRIMER DISTRIBUTION UNIT DETAIL 02
SCALE: NONE

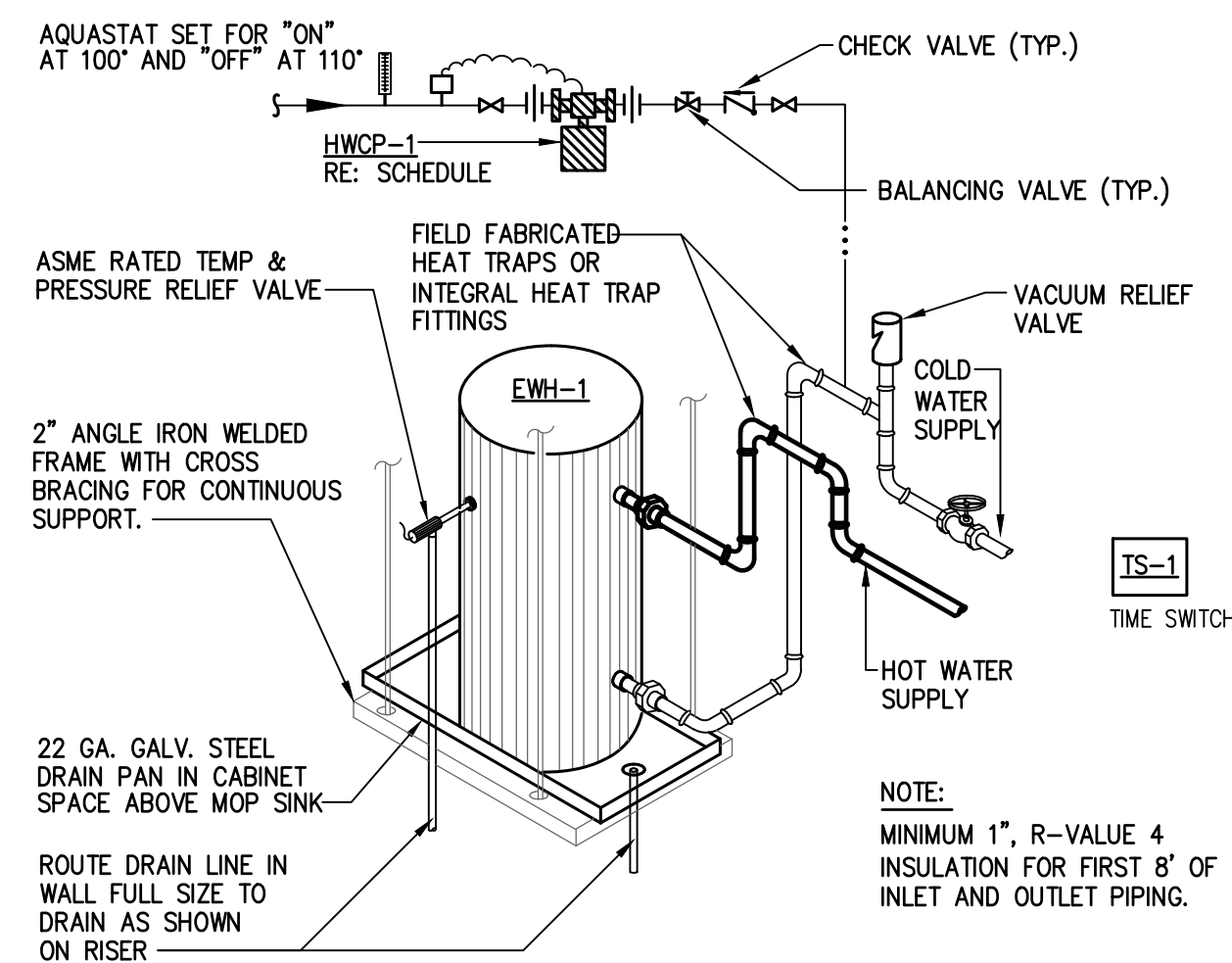


TS-1

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

IN-LINE CIRCULATING PUMP **03**
SCALE: NONE



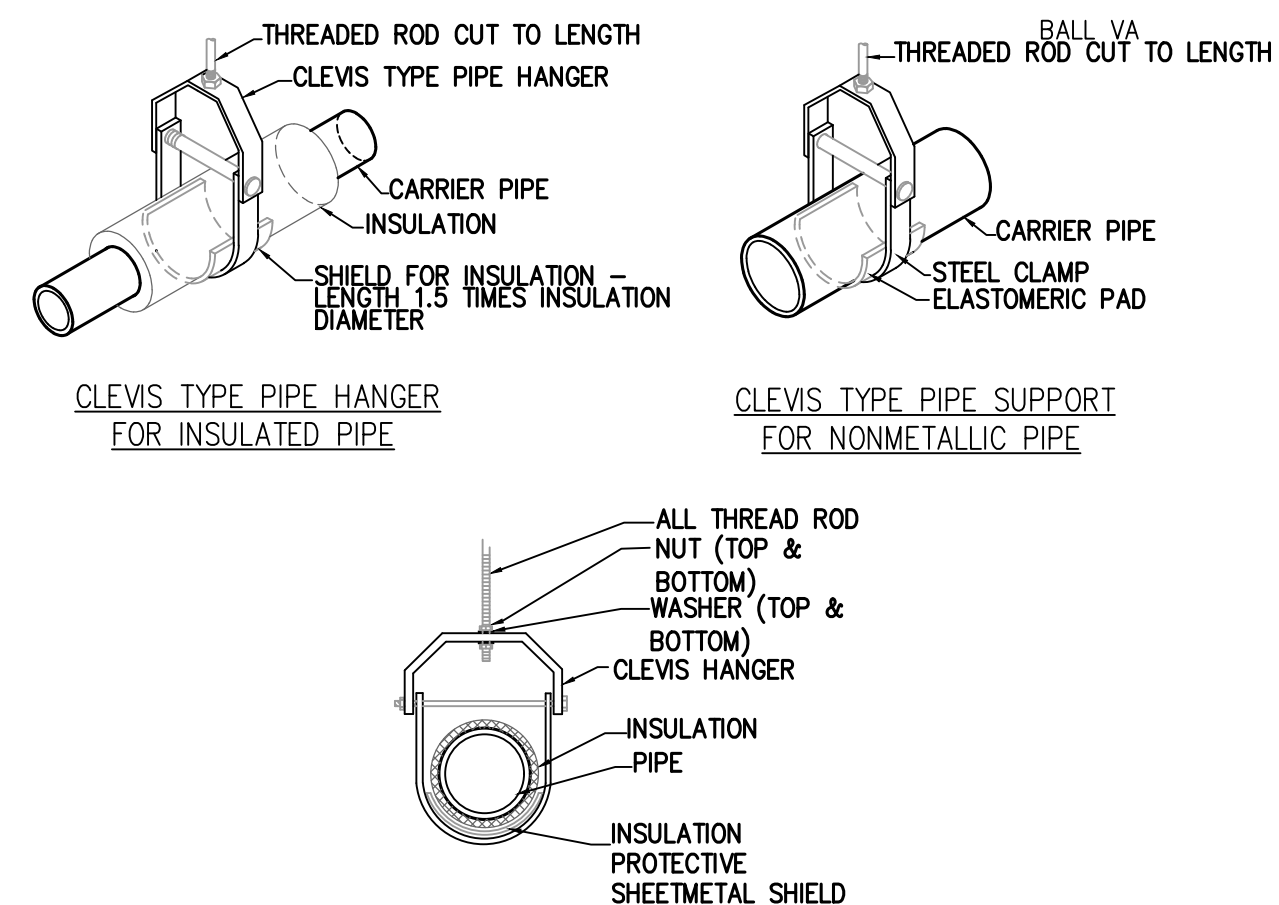
TS-1
TIME SWITCH

TIME SWITCH

NOTE:
MINIMUM 1", R-VALUE 4
INSULATION FOR FIRST 8' OF
INLET AND OUTLET PIPING.

NOTE: CONTRACTOR TO COORDINATE WITH STRUCTURAL ENGINEER
FOR PROPER INSTALLATION OF ANCHORS.

ELECTRICAL WATER HEATER DETAIL 04
SCALE: NONE

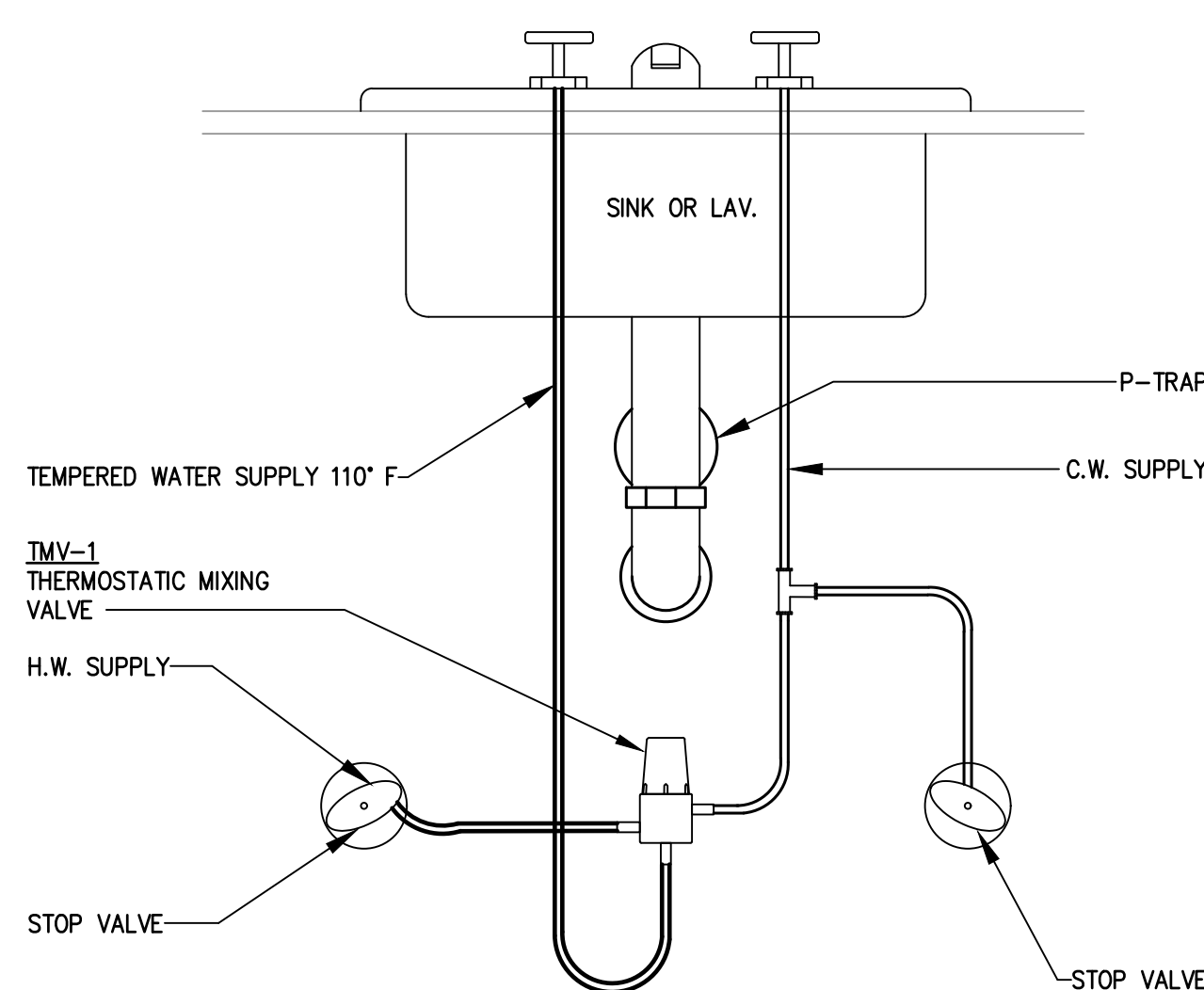


TYPICAL CLEVIS HANGER DETAIL

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 05
SCALE: NONE