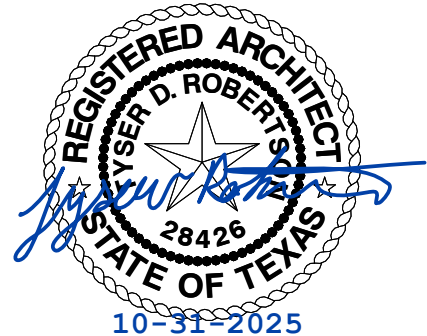




ADDENDUM NO. ONE
10/31/2025

PROJECT: EULA ISD
BUS & MAINTENANCE FACILITY

BID DATE: NOVEMBER 13TH, 2025



The following changes and/or additions shall be made to the Plans, Specifications, and Contract Documents for the above referenced project. Bidder shall acknowledge receipt of this Addendum on the Construction Costs Form.

DRAWINGS

- Item #D1** **Sheet M0.2** – REPLACE sheet with attached sheet M0.2 dated 10-30-2025. UPDATED mechanical schedules reflecting electrical updates and change in unit heater count.
- Item #D2** **Sheet M2.0** – REPLACE sheet with attached sheet M2.0 dated 10-30-2025. UPDATED mechanical plan with change in unit heater count.
- Item #D3** **Sheet E0.5** – REPLACE sheet with attached sheet E0.5 dated 10-30-2025. UPDATED electrical site plan.
- Item #D4** **Sheet E1.0** – REPLACE sheet with attached sheet E1.0 dated 10-30-2025. UPDATED power plan and equipment schedule.
- Item #D5** **Sheet E2.0** – REPLACE sheet with attached sheet E2.0 dated 10-30-2025. UPDATED lighting fixture schedule.
- Item #D6** **Sheet E2.1** – REPLACE sheet with attached sheet E2.1 dated 10-30-2025. UPDATED lighting plan.
- Item #D7** **Sheet E3.0** - REPLACE sheet with attached sheet E3.0 dated 10-30-2025. UPDATED feeder & breaker schedule changing building power to 3-phase.
- Item #D8** **Sheet P0.2** - REPLACE sheet with attached sheet P0.2 dated 10-30-2025. UPDATED plumbing schedules reflecting electrical updates.

END OF ADDENDUM

HEAT PUMP AIR HANDLER WITH ELECTRIC HEAT SCHEDULE

1. AIR HANDLER WIRING INCLUDES SUPPLEMENTARY ELECTRIC RESISTANCE HEATING.
2. EXTERNAL STATIC PRESSURE ("WG") INCLUDES DUCTWORK, BALANCING DAMPERS AND AIR DEVICES ONLY.
3. LISTED CAPACITIES ARE FOR THE AIR HANDLER UNIT AND CONDENSER UNIT COMBINATION. UNITS SHALL PERFORM TO LISTED CAPACITIES.
4. PROVIDE AIR HANDLER WITH FACTORY SUPPLIED CIRCUIT BREAKER.
5. TRANE IS THE BASIS FOR DESIGN. ACCEPTABLE ALTERNATE MANUFACTURER'S ARE: DAIKIN, LG, CARRIER AND YORK - NO EXCEPTIONS. CONTRACTOR IS RESPONSIBLE FOR VARIATIONS IN FIT AND ELECTRICAL SERVICE.
6. PROVIDE FILTER RACK, PLACE AND ORIENT FOR EASY FILTER ACCESS. PROVIDE WITH (2) SETS OF MERV 8 FILTERS.
7. PROVIDE AUXILIARY DRAIN PAN SYSTEM WITH FLOAT SWITCH INTERLOCKED WITH THE CONTROL CIRCUIT OF THE UNIT FOR HORIZONTAL UNITS. UNIT SHALL SHUTDOWN WHEN CONDENSATE BACKUP IS DETECTED.
8. PROVIDE WITH 7-DAY PROGRAMMABLE, PERMANENTLY WIRED, WALL MOUNTED THERMOSTAT.
9. PROVIDE WITH 24V MOTORIZED OUTSIDE AIR DAMPER HARDWIRED TO UNIT AUXILIARY TERMINAL. DAMPER SHALL OPEN WHEN UNIT SUPPLY FAN IS OPERATIONAL. PROVIDE BELIMO OR APPROVED EQUIVALENT.

MARK	ARRANGEMENT	INDOOR UNIT FAN			ELECTRICAL CONNECTIONS						SUPPLEMENTAL ELECTRIC HEATING				NET COOLING PERFORMANCE				WEIGHT (LBS)	CONTROLS			MANUFACTURER MAKE AND MODEL	REMARKS
		UNIT CFM	O/A CFM	FAN S.P.	V	PH	CIRCUIT 1 AHU		CIRCUIT 2 ELEC HEAT		ELEC HEAT (KW)	NO STAGES	WINTER EAT D.B.	WINTER LAT D.B.	COOLING SENS CAP (MBH)	COOLING TOTAL CAP (MBH)	ENTERING D.B.	ENTERING W.B.		24HR/7DAY PROG. T-STAT	HUMIDISTAT	DDC		
							MCA	MOCP	MCA	MOCP														
AHU-1	HORIZONTAL	1050	155	0.7	208	1	5.0	15	26.0	30	3	1	62.7	95	23	27.5	78.7	64.4	142	Y		TRANE 5TAM5C03AC21	1-9	
AHU-2	HORIZONTAL	700	75	0.7	208	1	3.0	15	21.0	25		1	64.7	95	13	14.3	77.2	63.7	120	Y		TRANE 5TAM5B01AC21	1-9	

HEAT PUMP OUTDOOR UNIT SCHEDULE

1. SIZE, ROUTE, INSULATE AND PROVIDE APPURTENANCES FOR DX PIPING SYSTEMS, PER MANUFACTURER RECOMMENDATIONS.
2. FOR LONG DX LINE RUNS, USE MANUFACTURER'S RECOMMENDED LONG LINE INSTALLATION GUIDELINES.
3. LISTED CAPACITIES ARE FOR THE AIR HANDLER UNIT AND CONDENSER UNIT COMBINATION. UNITS SHALL PERFORM TO LISTED CAPACITIES.
4. TRANE IS THE BASIS FOR DESIGN. ACCEPTABLE ALTERNATE MANUFACTURER'S ARE: DAIKIN, LG, CARRIER AND YORK - NO EXCEPTIONS. CONTRACTOR IS RESPONSIBLE FOR VARIATIONS IN FIT AND ELECTRICAL SERVICE.
5. PROVIDE FILTER DRYER AND SIGHT GLASS ON THE DX LINES.
6. PROVIDE CONDENSING UNIT WITH HAIL GUARDS

MARK	SERVES	COMPRESSORS		CONDENSERS			POWER CONNECTIONS				MIN SEER	HSPF	WEIGHT (LBS)	MANUFACTURER MAKE AND MODEL	REMARKS
		COMP QTY	REF. TYPE	COND NO. FANS	COND FAN FLA (EA)	O.D.D.B.	V	PH	MCA	MOCP					
CU-1	AHU-1	1	R-454B	1	0.64	105	208	1	19.0	30	15	8.8	222	TRANE 5TWR4036A1	1-6
CU-2	AHU-2	1	R-454B	1	0.64	105	208	1	13.0	20	15	8.8	174	TRANE 5TWR4024A1	1-6

AIR DEVICE SCHEDULE

1. UNITS SHALL BE FURNISHED WITH APPROPRIATE FRAMES, ETC. FOR MOUNTING IN RESPECTIVE CEILING/WALL TYPES AND CONDITIONS.
2. REFER TO FLOOR PLANS FOR NECK SIZE.
3. OFF-WHITE BAKED ENAMEL FINISH.
4. TRANSITION FROM BACK OF GRILLE TO DUCT SIZE SHOWN.
5. OR APPROVED EQUAL.
6. FOUR-WAY THROW UNLESS OTHERWISE INDICATED ON PLAN.
7. PROVIDE INSULATED BLANKET ON BACKSIDE OF THE DIFFUSER.

MARK	SERVES	FACE SIZE	NECK SIZE	TYPE	MATERIAL	MOUNTING	MANUFACTURER AND MODEL	REMARKS
A	SUPPLY	24" X 24"	8"	SQUARE CONE	STEEL	LAY-IN	TITUS TMS	1,2,3,4,5,6,7
B	SUPPLY	24" X 24"	10"	SQUARE CONE	STEEL	LAY-IN	TITUS TMS	1,2,3,4,5,6,7
C	SUPPLY	12" X 12"	5"	SQUARE CONE	ALUMINUM	SURFACE	TITUS TMS	1,2,3,4,5,6,7
D	RETURN	24" X 24"	8"	PERFORATED	STEEL	LAY-IN	TITUS PAR	1,2,3,4,5
E	EXHAUST	12" X 12"	6"	PERFORATED	ALUMINUM	SURFACE	TITUS PAR	1,2,3,4,5
F	RETURN	24" X 24"	15"X15"	PERFORATED	STEEL	LAY-IN	TITUS PAR	1,2,3,4,5
G	RETURN	24" X 24"	10"	PERFORATED	STEEL	LAY-IN	TITUS PAR	1,2,3,4,5

ELECTRIC UNIT HEATER SCHEDULE

1. PROVIDE INTEGRAL THERMOSTAT.
2. OR APPROVED EQUAL.
3. PROVIDE MOUNTING HARDWARE.

MARK	SERVES	UNIT CFM	ELEC HEAT KW	V	PH	F.L.A.	MANUFACTURER MAKE AND MODEL	REMARKS
UH-1	BUS BAYS	1320	20	208	3	56	QMARK MUH	1-3
UH-2	BUS BAYS	1320	20	208	3	56	QMARK MUH	1-3

EXHAUST FAN SCHEDULE

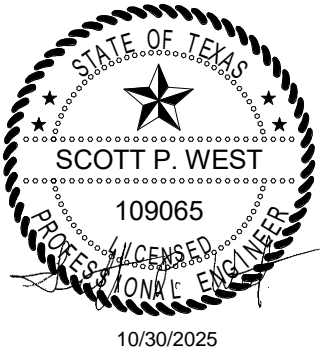
1. LOREN COOK IS THE BASIS FOR DESIGN. ACCEPTABLE ALTERNATE MANUFACTURER'S ARE: GREENHECK, TWIN CITY, AND CAPTIVEAIRE - NO EXCEPTIONS. CONTRACTOR IS RESPONSIBLE FOR VARIATIONS IN FIT AND ELECTRICAL SERVICE.
2. PROVIDE WITH MOTOR RATED ELECTRICAL DISCONNECT SWITCH.
3. PROVIDE INSULATED FACTORY ROOF CURB TO MATCH ROOF TYPE AND SLOPE. CURB TO BE MINIMUM 10" ABOVE ADJACENT ROOF SURFACE.
4. FAN TO RUN CONTINUOUSLY.
5. PROVIDE A MOTORIZED DAMPER. PROVIDE DAMPER TRAY.
6. PROVIDE HINGED BASE KIT FOR ACCESS TO MOTORIZED DAMPER.
7. SUSPEND FROM STRUCTURE ABOVE, USE FAN MANUFACTURER'S HANGING VIBRATION ISOLATOR KIT.
8. IN-LINE CABINET FAN, CENTRIFUGAL.
9. FAN OPERATION TO BE INTERLOCKED WITH LIGHTING CONTROLS.
10. PROVIDE A GRAVITY BACKDRAFT DAMPER.

MARK	SERVES	UNIT CFM	FAN EXT. S.P.	FAN HP (WATTS)	V	PH	DRIVE	SONES	WEIGHT (LBS)	MANUFACTURER MAKE AND MODEL	REMARKS
EF-1	RESTROOMS	225	0.4	.167	120	1	DIRECT	3	37	COOK GN	1,2,7,8,9,10
EF-2	BUS BAYS	2000	0.5	0.5	120	1	DIRECT	16	82	COOK ACRUD	1,2,3,4,5,6

LOUVER SCHEDULE

1. OR APPROVED EQUAL.
2. PROVIDE EXTRUDED ALUMINUM, 6" DRAINABLE STATIONARY WALL LOUVER WITH INSECT SCREEN.
3. PROVIDE LOUVER WITH ANODIZED FINISH, COORDINATE COLOR WITH ARCHITECT.
4. PROVIDE WITH EXTENDED SILL.
5. PROVIDE TRANSITION OR ADAPTOR WHERE REQUIRED TO ADAPT DUCTWORK TO NECK SIZE.

MARK	UNIT CFM	PRESSURE DROP (IN. W.G.)	SERVES	TYPE	MATERIAL	WIDTH (IN)	HEIGHT (IN)	FREE AREA (FT²)	MOTORIZED DAMPER (Y/N)	ACTUATOR (V)	MANUFACTURER MAKE AND MODEL	REMARKS
L-1	2000	0.05	EF-2	INTAKE	ALUMINUM	42"	24"	3.43	Y	120	RUSKIN ELF6375DX	1-5



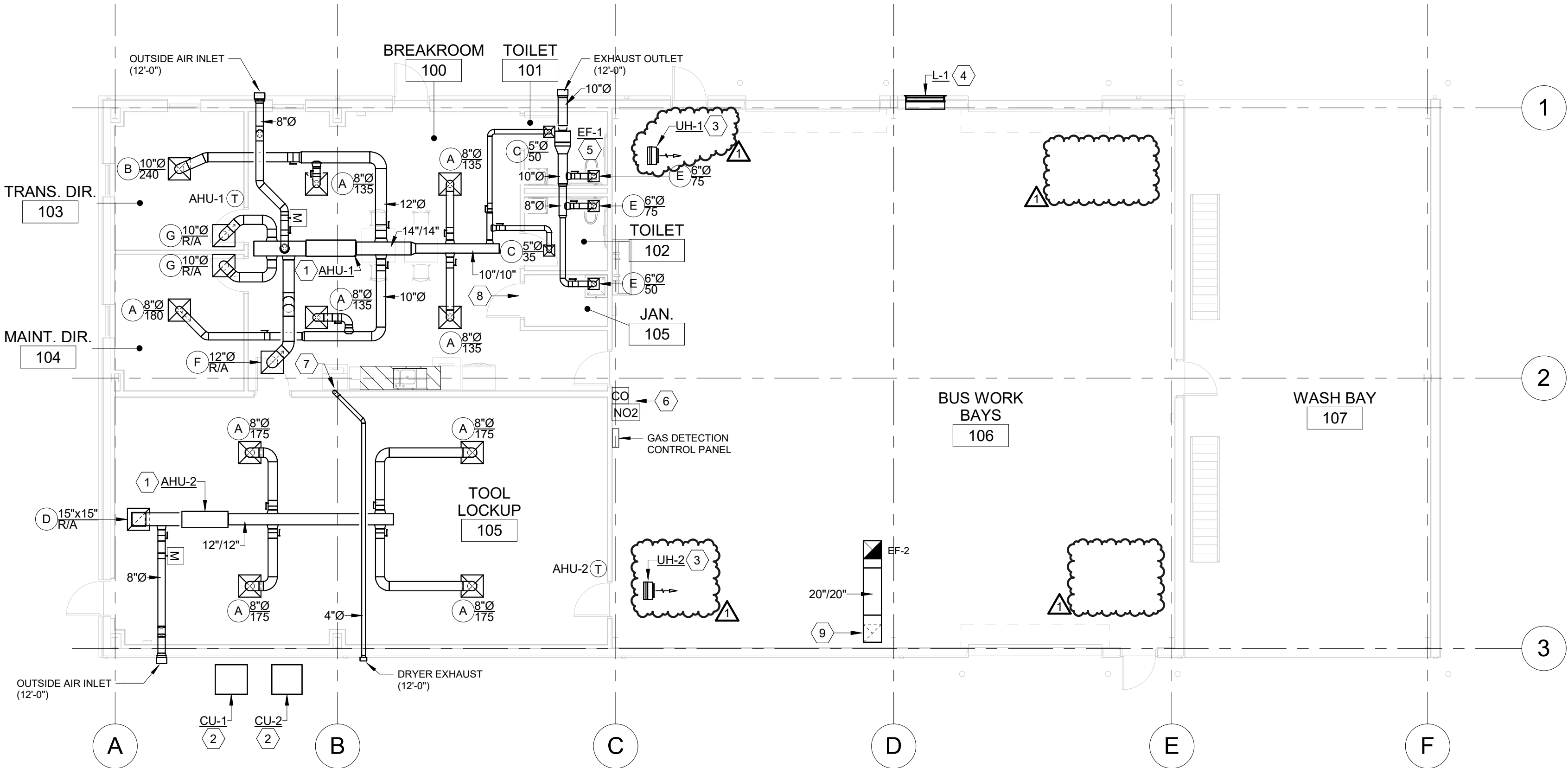
EULA ISD
BUS AND MAINTENANCE FACILITY

MECHANICAL SCHEDULES

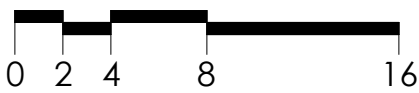
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CO/NO2 DETECTOR NOTES	
NUMBER	NOTE
1	AUTOMATIC VENTILATION CONTROL SYSTEM CONSISTING OF CARBON MONOXIDE, NITROGEN DIOXIDE DETECTORS AND CONTROLLERS, MACURCO MODEL CX-12 (OR EQUAL), AIR QUALITY CONTROLLER TO DETECT DIESEL FUMES AND EXHAUST, MACURCO MODEL DVP-120B (OR EQUAL) AND CENTRALIZED CONTROLS TRANSFORMER AND RELAYS PROVIDED BY ELECTRICAL CONTRACTOR.
2	CONTROLLER SHALL SEND FAN CYCLE TIMER SIGNAL TO EF-2 UPON CARBON MONOXIDE LEVELS GREATER THAN 50 PPM AND/OR UPON NITROGEN DIOXIDE LEVELS GREATER THAN 2 PPM. THE ALARM SHALL BE RESET OFF ONCE CARBON MONOXIDE LEVELS FALL BELOW 35 PPM AND NITROGEN DIOXIDE LEVELS FALL BELOW 1 PPM. AN AUDIBLE VISUAL ALARM SHALL ENGAGE IF CO LEVELS REACH ABOVE 100 PPM OR IF NO2 LEVELS REACH ABOVE 5 PPM. CENTRALIZED CONTROLS SHALL INCLUDE A TIME CLOCK SET TO MAINTAIN MINIMUM FAN CYCLE TIMES (30 MINUTES, ADJUSTABLE). THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING CONTROLLERS AND ELECTRICAL CONTRACTOR SHALL ROUTE 120V CONTROL WIRING. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLS TRANSFORMERS AND RELAYS, MOTOR STARTERS AND JUNCTION BOXES. REFER TO ELECTRICAL DRAWINGS FOR REQUIREMENTS.
Assembly Description	

M2.0 NOTES BY SYMBOL	
NUMBER	NOTE
1	AIR HANDLING UNIT MOUNTED TO STRUCTURE ABOVE. RE: 1/M5.0.
2	CONDENSING UNIT MOUNTED ON CONCRETE PAD. RE: 2/M5.0.
3	ELECTRIC UNIT HEATER MOUNTED AT 12'-0" A.F.F. COORDINATE EXACT LOCATION.
4	NEW WALL MOUNTED LOUVER. MOUNT BOTTOM OF LOUVER AT 12'-0" A.F.F. INTERLOCK WITH EF-2. REFER TO ELECTRICAL FOR POWER REQUIREMENTS.
5	NEW INLINE EXHAUST FAN. INTERLOCK FAN WITH LIGHTING CONTROLS. RE: 4/M5.0.
6	COMBINATION CARBON MONOXIDE AND NITROGEN DIOXIDE SENSOR. REFER TO CO/NO2 DETECTOR NOTES. COORDINATE EXACT LOCATION.
7	PROVIDE DRYER BOX FOR STACKABLE WASHER/DRYER. RE: 1/M5.1.
8	MINIMUM 1/2" UNDERCUT FOR TRANSFER AIR. REFER TO ARCH PLANS FOR DETAILS.
9	EXTEND DUCTWORK DOWN TO 18" A.F.F. AND TERMINATE WITH WIRE MESH SCREEN. ATTACH DUCT DROP TO STRUCTURE AS REQUIRED FOR SUPPORT.



1 MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

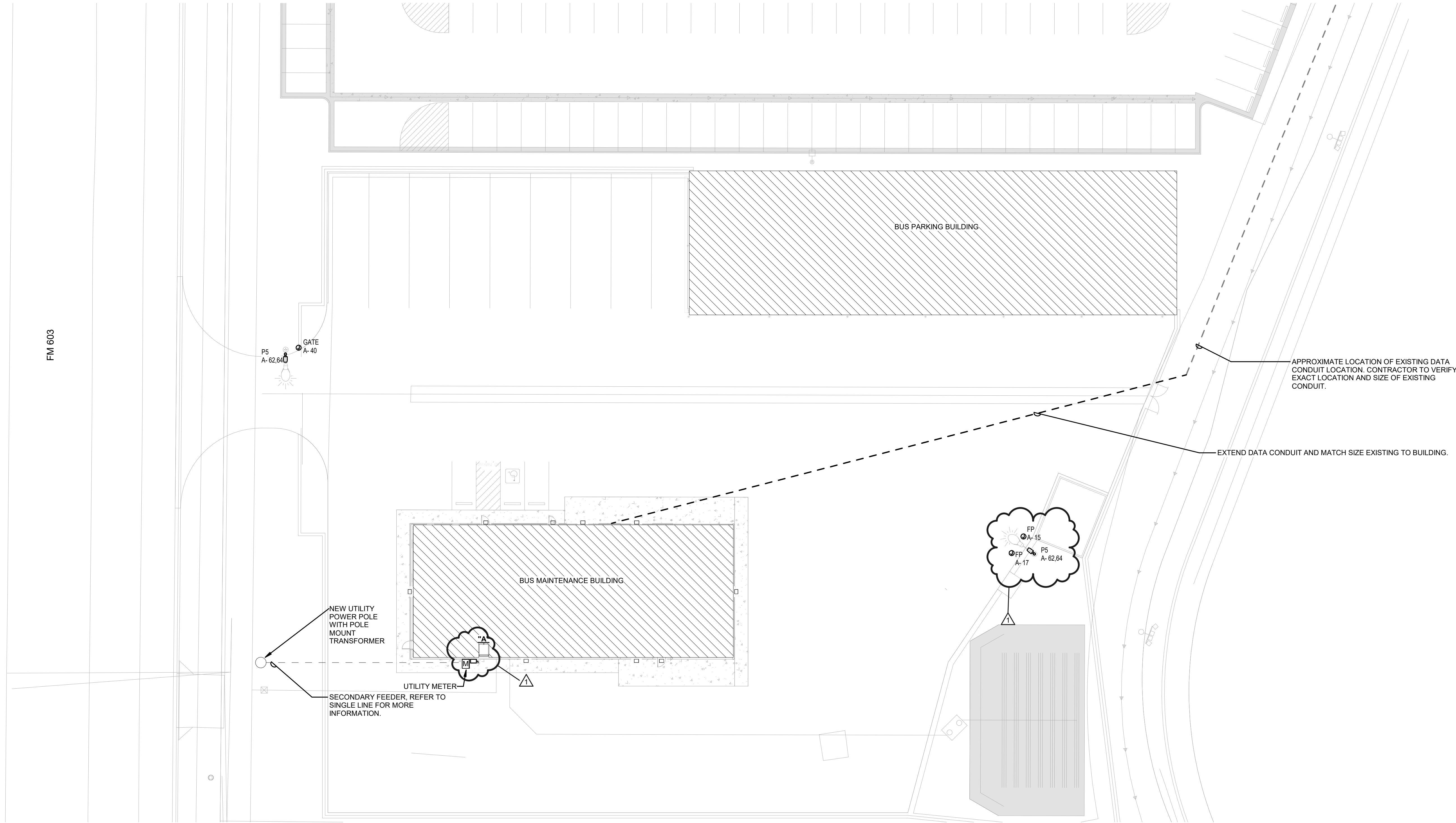


Summit
CONSULTANTS, INC.
Texas BPE Registration # F-207
1300 Summit Avenue Suite 500 Fort Worth, Texas 76102
Office 817.878.4242
www.summitmep.com
4144 N. Central Expwy Suite 635 Dallas, Texas 75204
Office 214.420.9111

EULA ISD
BUS AND MAINTENANCE FACILITY
MECHANICAL PLAN

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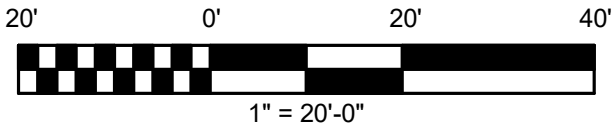


GENERAL SITE PLAN NOTES

1. CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE COMMUNICATIONS UTILITY FOR ROUTING OF COMMUNICATIONS CONDUIT TO COMMUNICATIONS RIGHT OF WAY.
2. CONTRACTOR SHALL COORDINATE WITH ELECTRIC UTILITY FOR ALL DETAILS OF NEW ELECTRIC SERVICE. CONTRACTOR SHALL USE UTILITY'S DETAIL DRAWINGS FOR ALL TRENCHING, BACKFILL, PRIMARY CONDUIT ROUTING, RADIUS TRANSFORMER PAD DETAILS, AND OTHER UTILITY SPECIFIC INFORMATION. PRIMARY CONDUIT ROUTING SHOWN IS CONCEPTUAL AND PRELIMINARY. EXACT DETAILS AND ROUTING SHALL BE PROVIDED BY ELECTRIC UTILITY AND CIVIL ENGINEER. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH UTILITY REQUIREMENTS. COORDINATE WITH:
COMPANY: AEP
NAME: Joe Sorenson
PHONE: 325-225-3614
E-MAIL: jsorenson@aep.com

1 ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"



Summit
CONSULTANTS, INC.
Texas BPE Registration # F-207

1300 Summit Avenue Suite 500 Fort Worth, Texas 76102 Office 817.878.4242 www.summitmep.com

4144 N. Central Expwy Suite 635 Dallas, Texas 75204 Office 214.420.9111

EULA ISD
BUS AND MAINTENANCE FACILITY
ELECTRICAL SITE PLAN

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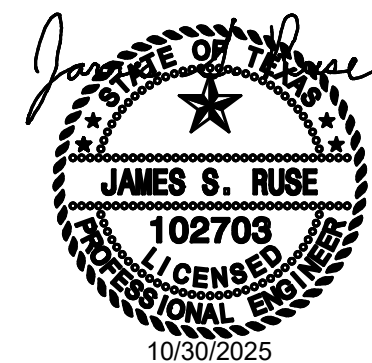
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EQUIPMENT SCHEDULE (*SCH)						
EQ NAME	EQ DESC	FEEDER	VOLT	POLES	LOAD VA	CKT
AHU-1A	AIR HANDLING UNIT AHU 208V 5A MCA	2#12, #12G, 3/4"C	208 V	2	832 VA	A-21,23
AHU-1H	AIR HANDLING UNIT ELECTRIC HEAT 208V 26A MCA	2#10, #10G, 3/4"C	208 V	2	4326 VA	A-25,27
AHU-2A	AIR HANDLING UNIT AHU 208V 3A MCA	2#12, #12G, 3/4"C	208 V	2	499 VA	A-18,20
AHU-2H	AIR HANDLING UNIT ELECTRIC HEAT 208V 21A MCA	2#10, #10G, 3/4"C	208 V	2	3494 VA	A-29,31
CP-1	CONDENSATE PUMP 120V	2#12, #12G, 3/4"C	120 V	1	1176 VA	A-12
CU-1	CONDENSING UNIT 208V 19A MCA	2#12, #12G, 3/4"C	208 V	2	3648 VA	A-30,32
CU-2	CONDENSING UNIT 208V 13A MCA	2#12, #12G, 3/4"C	208 V	2	2496 VA	A-24,26
EF-1	EXHAUST FAN 120V	2#12, #12G, 3/4"C	120 V	1	180 VA	A-5
EF-2	EXHAUST FAN 120V	2#12, #12G, 3/4"C	120 V	1	180 VA	A-5
UH-1	ELECTRIC UNIT HEATER 208V 56A FLA	2#4, #8G, 1-1/4"C	208 V	3	20174 VA	A-50,52,54
UH-2	ELECTRIC UNIT HEATER 208V 56A FLA	2#4, #8G, 1-1/4"C	208 V	3	20174 VA	A-56,58,60
WH-1	WATER HEATER 240V 4.5KW	2#10, #10G, 3/4"C	208 V	3	4500 VA	A-57,59,61

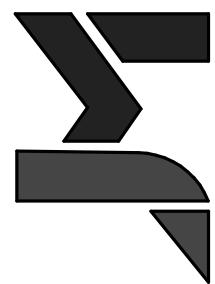
POWER SYMBOL LEGEND	
TYPE	SYMBOL DESCRIPTION
6-50R	* PROVIDE NEMA 6-50 RECEPTACLE FOR WELDER. PROVIDE 2#6, #10G, 1"C.
14-30R	PROVIDE NEMA 14-30 RECEPTACLE FOR WASHING MACHINE. PROVIDE 2#10, #10G, 3/4"C. CONFIRM EXACT REQUIREMENTS WITH EQUIPMENT CUTSHEET.
AG	GFI DUPLEX RECEPTACLE ABOVE COUNTER; REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION
CR	PROVIDE AND INSTALL REELCRAFT 924772-6 POWER CORD REEL. CIRCUIT SHALL UTILIZE GFI BREAKER. MOUNT TO STRUCTURAL FRAMING AT DECK. CONFIRM FINAL LOCATION WITH OWNER PRIOR TO INSTALL.
DOOR	PROVIDE DEDICATED 120V POWER FOR MOTORIZED DOOR OPENER. PROVIDE ALL RACEWAY REQUIREMENTS FOR A COMPLETE AND OPERATIONAL SYSTEM PER MANUFACTURERS INSTALLATION GUIDELINES
FP	120V POWER FOR OWNER PROVIDED FUEL PUMP. PROVIDE 2 #12, #12G, 3/4"C. COORDINATE EXACT LOCATION WITH OWNER.
G	GFI DUPLEX RECEPTACLE AT 18" ABOVE FINISH FLOOR, UNLESS NOTED OTHERWISE
GATE	PROVIDE 120V POWER FOR GATE OPERATOR. COORDINATE EXACT LOCATION WITH INSTALLING CONTRACTOR.
HTCP	PROVIDE 240V POWER FOR HEAT TRACE CONTROLLER. PROVIDE 2#12, #12G, 3/4"C. CONTRACTOR TO PROVIDE POWER FROM HEAT TRACE CONTROLLER TO POWER PACK. COORDINATE EXACT LOCATION WITH INSTALLING CONTRACTOR.
HTPP	PROVIDE POWER FOR HEAT TRACE POWER PACK. CONTRACTOR TO PROVIDE POWER FROM HEAT TRACE CONTROLLER TO POWER PACK. COORDINATE EXACT LOCATION WITH INSTALLING CONTRACTOR.
W	GFCI DUPLEX RECEPTACLE FOR WASHING MACHINE. COORDINATE EXACT MOUNTING HEIGHT WITH MANUFACTURER CUT SHEET.
WP	WEATHER RESISTANT GFI DUPLEX RECEPTACLE IN NEMA 3R WHILE-IN-USE METAL COVER AT 18", UNLESS NOTED OTHERWISE
	STANDARD DUPLEX RECEPTACLE AT 18" ABOVE FINISH FLOOR, UNLESS NOTED OTHERWISE
	JUNCTION BOX
	MOTOR RATED SWITCH

GENERAL POWER NOTES

PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE CAULKED TO MAINTAIN THE FIRE RATING OF THE WALL.
INSTALL 3/4" CONDUIT TO ALL EXTERIOR DOOR FRAMES TO ACCESSIBLE CEILING SPACE FOR DOOR CONTROLS.



JACOB MARTIN



TBPEL FIRM # 1019493
TBPE FIRM # 2261
TBPE FIRM # 2448

EULA ISD BUS AND MAINTENANCE FACILITY

POWER PLAN

1

BUS MAITENENCE BUILDING POWER PLAN

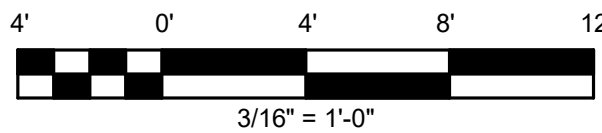
SCALE: 3/16" = 1'-0"

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NO.	REVISION	DATE	PROJECT	SCALE	SHEET
1	ADDENDUM 1	10/30/2025	24103	As Indicated	E1.0
PROJECT 1 SCALE					24103
BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY.					

SWITCH SYMBOL LEGEND	
TYPE	SYMBOL DESCRIPTION
\$ 3	LINE VOLTAGE 3-WAY TOGGLE SWITCH
\$ 3WP	LINE VOLTAGE 3-WAY TOGGLE SWITCH ENCLOSED IN NEMA 3 WEATHER PROOF BOX
● DT	DUAL TECH OCCUPANCY SENSOR
⓪	DIGITAL BUTTON 3-BUTTON PER ZONE (ON/OFF,RAISE,LOWER). PROGRAM TO AUTOMATIC 50% ON, AUTOMATIC OFF AFTER 30 MINUTES. DUAL TECHNOLOGY OCCUPANCY SENSORS AS SHOWN IN PLAN VIEW. LOWER CASE LETTERS ADJACENT TO SWITCH INDICATES ZONES.
\$ 0	WALL MOUNTED LINE VOLTAGE OCCUPANCY SENSOR. 3-BUTTON (ON/OFF,RAISE,LOWER) DIMMING SENSOR. PROGRAM TO AUTOMATIC 50% ON, AUTOMATIC OFF AFTER 30 MINUTES. DUAL TECHNOLOGY UNLESS OTHERWISE NOTED.

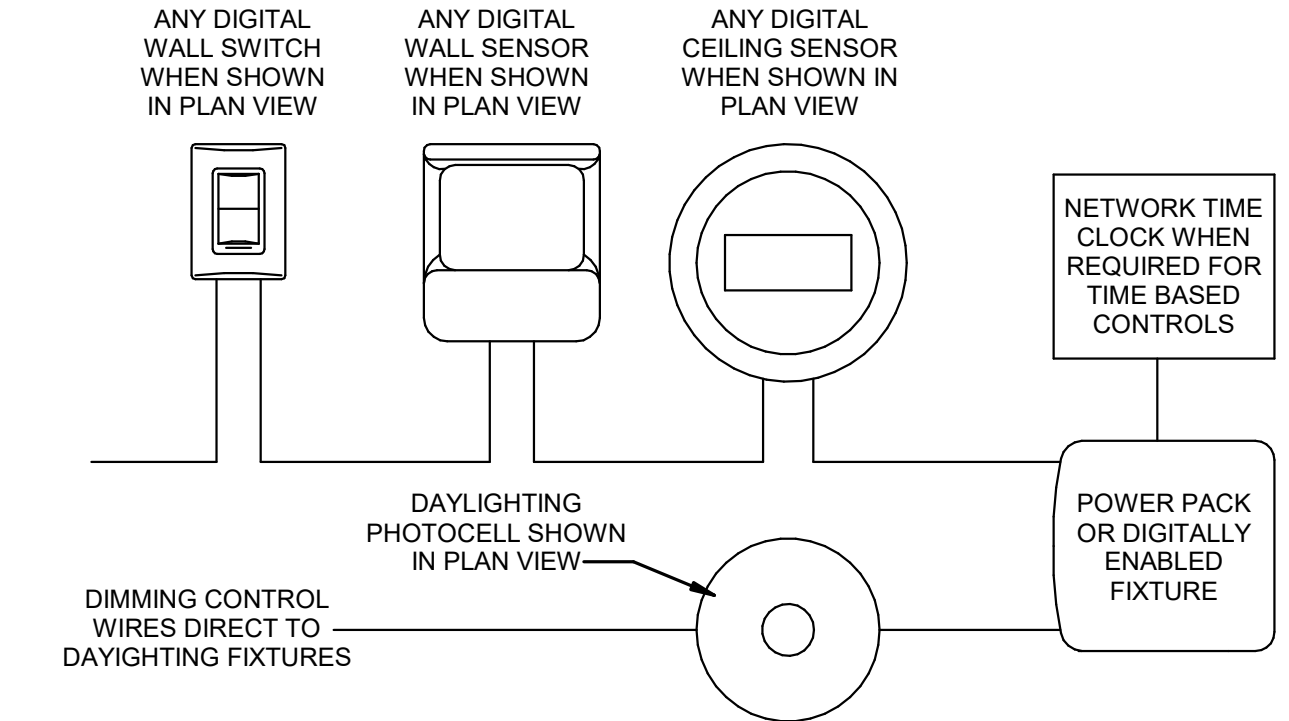
LIGHTING FIXTURE SCHEDULE								
SCHEDULE NOTES: 1. PROVIDE ALL MOUNTING HARDWARE AND ACCESSORIES REQUIRED FOR MOUNTING. REFER TO ARCHITECTURAL CEILING PLANS FOR CEILING TYPES.								
TYPE	DESCRIPTION	MANUFACTURER	MODEL#	VOLT	LOAD VA	TEMP	LUMENS	COMMENTS
A	2X2 FLAT PANEL	LITHONIA	CPX 2X2 4000LMHE 80CRI 40K 120	120 V	35 VA	4000K	4000	
AEM	2X2 FLAT PANEL	LITHONIA	CPX 2X2 4000LMHE 80CRI 40K 120 E10W	120 V	35 VA	4000K	4000	IDENTICAL TO TYPE A, WITH EMERGENCY BATTERY BACKUP
P5	SITE POLE LIGHT, TYPE "V" DISTRIBUTION	LITHONIA	DSX1 LED P5 40K TVM 208 SPA DDBXD	208 V	138 VA	4000K	16328	PROVIDE 25" POLE AND POLE BASE. SEE DETAIL FOR ADDITIONAL INFORMATION.
WP	WALL PACK	LITHONIA	WSQLED P3 40K SR3 120 DDBXD	120 V	40 VA	4000K	4784	
WPE	WALL PACK	LITHONIA	WSQLED P3 40K SR3 120 DDBXD E20WC	120 V	40 VA	4000K	4784	IDENTICAL TO TYPE WP, WITH EMERGENCY BATTERY BACKUP
XE	THERMOPLASTIC EXIT SIGN WITH BATTERY	LITHONIA	LQM S 3 R 120/277 M6	120 V	5 VA	NA	NA	SEE FLOORPLAN FOR NUMBER OF FACES.
Z	UTILITY STRIP LIGHT	LITHONIA	ZL1D L48 5000LM FST 120 40K 90CRI WH	120 V	41 VA	4000K	5000	
ZE	UTILITY STRIP LIGHT	LITHONIA	ZL1D L48 5000LM FST 120 40K 90CRI WH E10W	120 V	41 VA	4000K	5000	IDENTICAL TO TYPE Z, WITH EMERGENCY BATTERY BACKUP
ZVT	UTILITY STRIP LIGHT VAPOR TIGHT	LITHONIA	CSVT L48 5000LM MVOLT 40K 80CRI	120 V	41 VA	4000K	5000	

DIGITAL LIGHTING CONTROLS NOTES AND DETAIL

DIGITAL LIGHTING CONTROLS GENERAL NOTES:

- ALL POWER PACKS TO BE MOUNTED ABOVE CEILING NEAREST THE FIRST WALL SWITCH SERVING THE ASSOCIATED ROOM. PLAN VIEW SHOWS QUANTITY OF ZONES REQUIRED MANUFACTURER MAY COMBINE POWER PACKS WHERE POSSIBLE INTO MULTI ZONE POWER PACKS.
- ALL EMERGENCY BATTERY PACK DECORATIVE FIXTURES ARE TO TURN ON/OFF WITH ASSOCIATED ROOM, BUT OVERRIDE TO ON IF POWER IS LOST. REFER TO EMERGENCY LIGHTING CONTROL DETAIL WHERE PROVIDED.
- ALL EXIT LIGHTING AND BATTERY PACK ONLY FIXTURES ARE TO BE WIRED TO UN-SWITCHED LEG OF CIRCUITS SHOWN FOR CONSTANT POWER.
- DETAIL IS GENERIC IN NATURE. PLAN VIEWS WILL INDICATE NUMBER OF ZONES, PROVIDE POWER PACK OR EQUIVALENT FOR EACH ZONE. PLAN VIEW WILL INDICATE LOCATION OF DIGITAL WALL SWITCHES WITH NUMBER OF BUTTONS REQUIRED. ACCEPTABLE MANUFACTURERS ARE WATT STOPPER, LUTRON AND ACUITY CONTROLS. OTHERS WILL BE CONSIDERED WITH PRE-APPROVAL PRIOR TO BIDDING.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULLY FUNCTIONAL SYSTEM.
- ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

DIGITAL LIGHTING CONTROLS DETAIL:

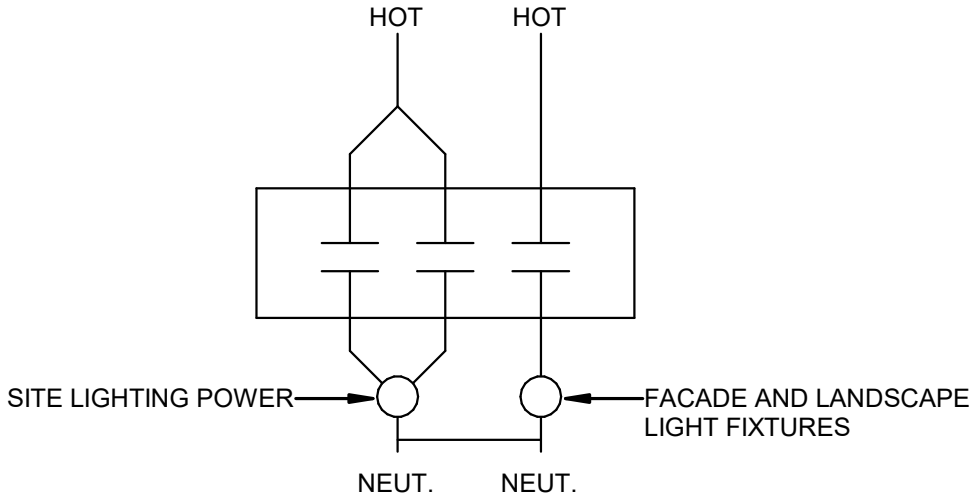


EXTERIOR LIGHTING CONTROL NOTES AND DETAIL

EXTERIOR LIGHTING CONTROL GENERAL NOTES:

- FOR GENERAL EXTERIOR SITE AND BUILDING LIGHTING, PROVIDE 365/7 DAY ASTRONOMIC TIME CONTROL WITH OVERRIDE ON/OFF AND MINIMUM 2 DAY PERMANENT SCHEDULE RETENTION. PROVIDE ONE RELAY OR CONTACT PER ZONE REQUIRED.
- FOR AREA SECURITY SITE LIGHTING, PROVIDE TIME SCHEDULE TO BE ONE ZONE ON AT NIGHT AND ONE ZONE OFF AFTER MIDNIGHT (TWO ZONES, STEP DIMMED).
- FOR FIXTURES LIGHTING FACADE AND LANDSCAPE, PROVIDE TIME SCHEDULE TO BE ON DUSK TO DAWN, STEP DIMMING NOT REQUIRED.
- CIRCUIT AS SHOWN IN PLAN VIEW.

EXTERIOR LIGHTING CONTROL DETAIL:



EXTERIOR LIGHTING ENERGY CODE REQUIREMENTS :

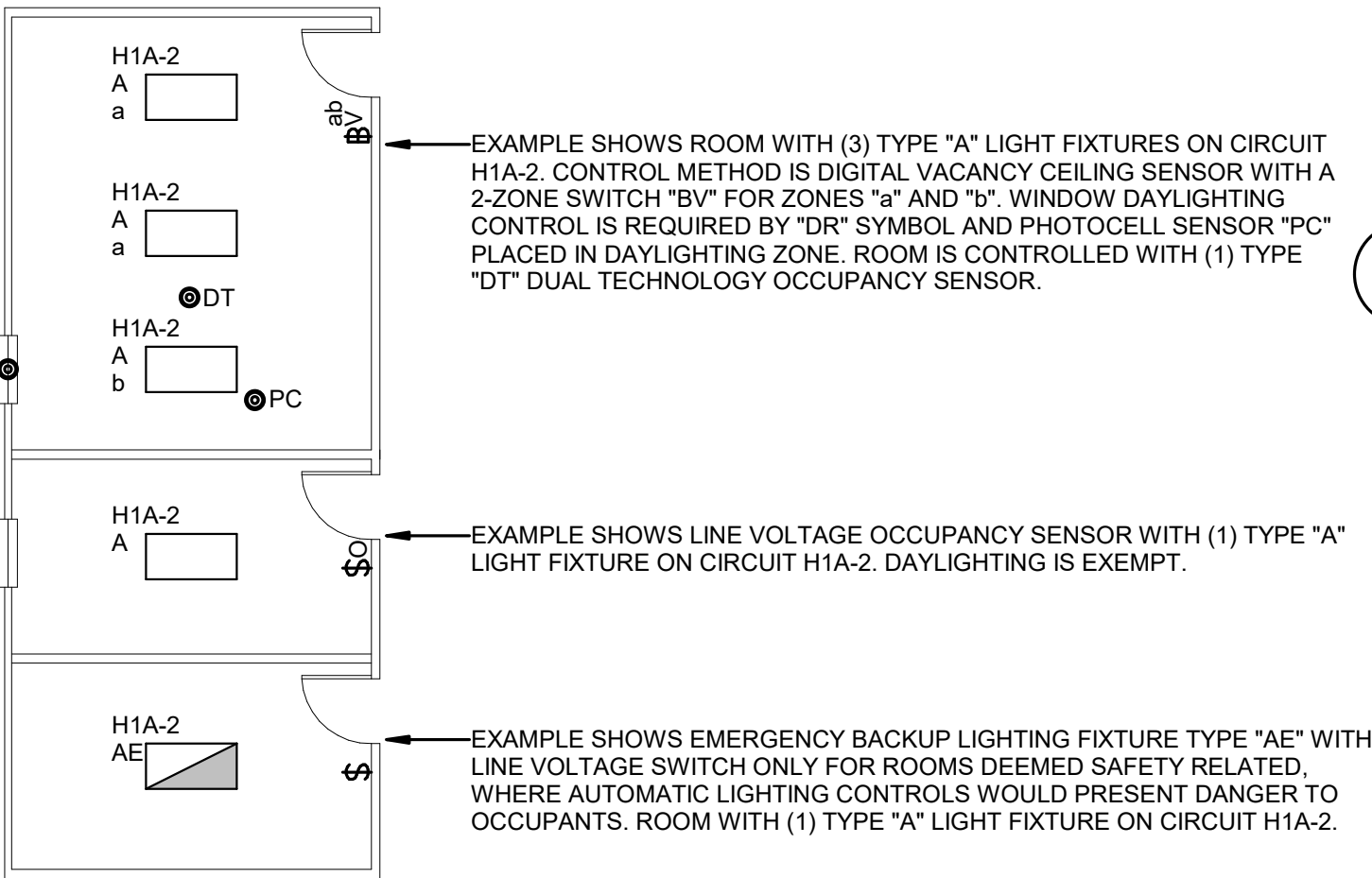
- ALL EXTERIOR LIGHTING SHALL BE CONTROLLED AS A FUNCTION OF AVAILABLE LIGHT USING AN ASTRONOMIC TIMECLOCK, PHOTOCELL OR SIMILAR MEANS, UNLESS NOTED OTHERWISE.
- EXTERIOR LIGHTING SHALL BE REDUCED BY MINIMUM OF 30% AFTER MIDNIGHT AT THE LATEST TO 6AM, OR 1-HOUR AFTER CLOSING AND 1 HOUR BEFORE BUSINESS OPENING, OR ANYTIME OF INACTIVITY OF MORE THAN 15 MINUTES.
- EXEMPTIONS TO EXTERIOR LIGHTING:
 - EMERGENCY EGRESS LIGHTING
 - COVERED VEHICLE ENTRANCES TO PARKING STRUCTURES
 - BUILDING FACADE AND LANDSCAPE LIGHTING MAY BE PHOTOCELL ONLY; 30% DIMMING IS NOT REQUIRED.

GENERAL LIGHTING CONTROLS NOTES AND EXAMPLES

LIGHTING CONTROL GENERAL NOTES:

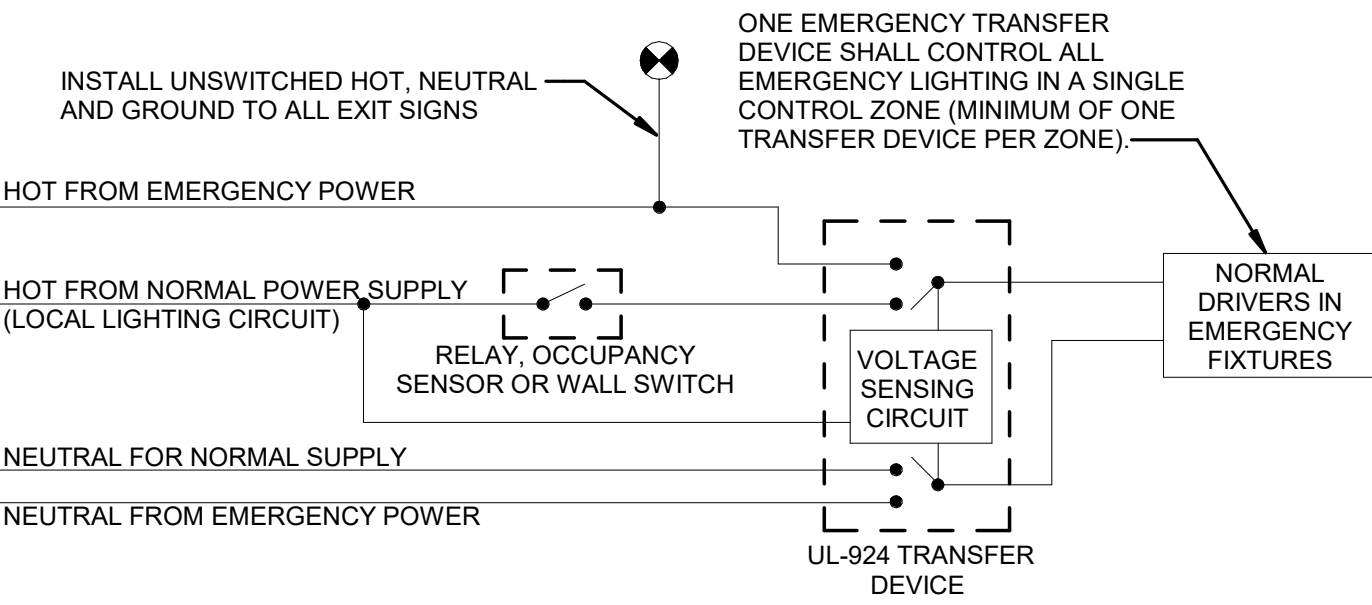
- SENSOR LOCATIONS ARE MINIMUMS. CONTRACTOR SHALL PROVIDE FOR A MINIMUM OF 10% ADDITIONAL DEVICES TO COVER DARK SPOTS DISCOVERED DURING CONSTRUCTION FROM FIELD INSTALLED OBSTRUCTIONS. CONTRACTOR SHALL ALSO ALLOW FOR A MOVE OF UP TO 5'-0" IN ANY DIRECTION FOR ALL SENSORS, AT NO ADDITIONAL COST TO THE OWNER. TO ALLOW FOR FIELD ADJUSTMENT OF SENSOR PLACEMENTS TO ACHIEVE OPTIMUM PERFORMANCE.
- INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE A MINIMUM OF (2) SITE VISITS BY FACTORY TRAINED PERSONNEL TO ADJUST SENSORS AND TRAIN THE OWNER ON USE AND MAINTENANCE OF LIGHTING CONTROL COMPONENTS.
- AFTER COMMISSIONING LIGHTING CONTROLS, CONTRACTOR SHALL PROVIDE A WRITTEN TEST REPORT INDICATING THAT ALL LIGHTING CONTROL SYSTEMS HAVE BEEN COMMISSIONED, TESTED AND FOUND TO BE FUNCTIONING IN ACCORDANCE WITH CONTRACT DOCUMENT AND CODE REQUIREMENTS. CONTRACTOR SHALL ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, MANUFACTURER'S INSTRUCTIONS AND CODE REQUIREMENTS. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH IECC SECTIONS C408.3.1.1/2 FOR THE APPLICABLE CONTROL TYPES.

GENERAL LIGHTING EXAMPLES:



EMERGENCY LIGHTING CONTROL NOTES:

- FOR CIRCUITS WITH DIMMED FIXTURES, TRANSFER DEVICE SHALL HAVE ADDITIONAL INTERNAL RELAY TO BREAK 0-10V DIMMING SIGNAL TO ENSURE DIMMED FIXTURES TURN ON WHEN NORMAL POWER FAILS. "LVS LIGHTING CONTROLS" MODEL "EPC-1-D" IS BASIS OF DESIGN FOR CIRCUITS WITH 0-10V DIMMING. SEE <http://www.lvscontrols.com/>
- BODINE 'BLCD-20B' IS THE BASIS OF DESIGN FOR CIRCUITS WITHOUT 0-10V DIMMING.



1 EMERGENCY LIGHTING CONTROL DETAIL

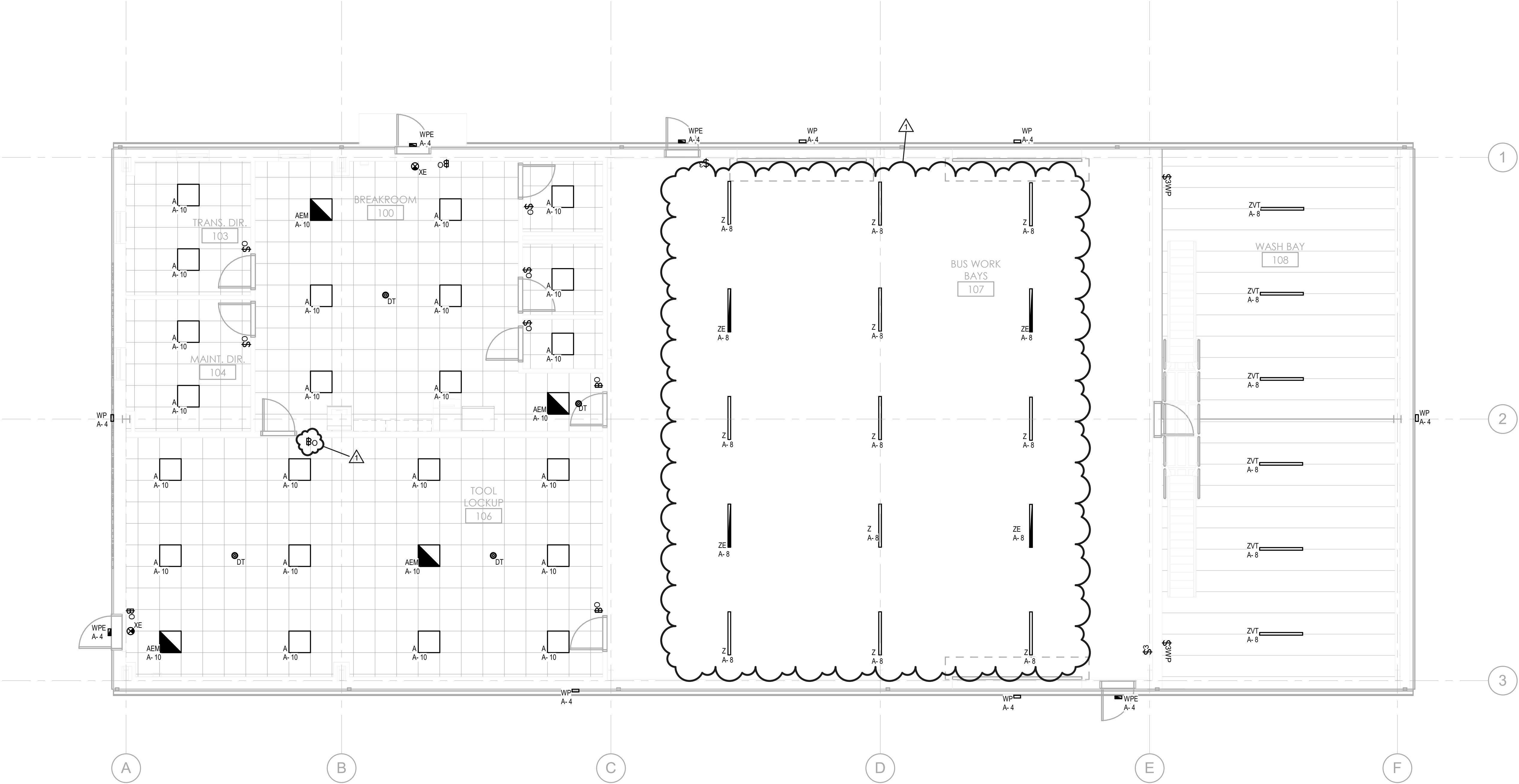
SCALE: N.T.S.

GENERAL ENERGY CODE REQUIREMENTS :

- ALL AREAS LISTED BELOW SHALL HAVE OCCUPANCY SENSOR CONTROL:
 - ENCLOSED SPACES 300 SQ.FT. OR LESS
 - PRIVATE OFFICES
 - RESTROOMS
 - STORAGE ROOMS
 - JANITORIAL CLOSETS
 - LOUNGES
 - EMPLOYEE LUNCH AND BREAK ROOMS
 - LOCKER ROOMS
- FOR OCCUPANCY SENSORS, AUTOMATIC ON TO 100% OUTPUT IS ALLOWED FOR PUBLIC CORRIDORS, LOBBIES AND SIMILAR PUBLIC USE ONLY AREAS. AUTOMATIC SENSORS ON SHALL BE PROGRAMMED TO AUTOMATICALLY TURN ON LIGHTING TO NO MORE THAN 50% IN OTHER SPACES IN ACCORDANCE WITH IECC REQUIREMENTS.
- AREAS NOT PROVIDED WITH OCCUPANCY SENSORS AS LISTED ABOVE SHALL BE ON A TIME BASED SCHEDULE. TIME SWITCH CONTROLS SHALL PROVIDE MAXIMUM 2-HOUR OVERRIDE (MAXIMUM 5,000 SQ.FT. EACH OVERRIDE) WITHIN SPACE CONTROLLED OR HAVE A PILOT LIGHT AND MAP OF LIGHTING CONTROLLED.
- AREAS NOT EXEMPTED FROM TIME BASE CONTROLS SHALL HAVE LIGHT REDUCTION CONTROLS (DIMMER) LOCATED IN SPACE FOR A MINIMUM 50% REDUCTION BY OCCUPANT.
- LIGHTING REDUCTION IS NOT REQUIRED FOR ROOMS WITH ONLY ONE LIGHT FIXTURE, ROOMS USING LESS THAN 0.6 W/SQ.FT., CORRIDORS, EQUIPMENT ROOMS, AND PUBLIC LOBBIES.
- TIME CONTROLS SHALL HAVE A 7-DAY CLOCK WITH DIFFERENT SCHEDULE EACH DAY, HAVE HOLIDAY SCHEDULING CAPABILITY AND 10 HOUR BACKUP FOR PROGRAMMING.
- AREAS THAT HAVE SPECIAL EXEMPTIONS MUST BE EVALUATED ON A CASE BY CASE BASIS. THESE AREAS INCLUDE SLEEPING AREAS, PATIENT CARE AREAS, AREAS WHERE AUTOMATIC LIGHTING SHUTOFF WOULD ENDANGER LIFE SAFETY, DWELLING UNITS WITHIN COMMERCIAL BUILDINGS, AND WALK-IN COOLER AND FREEZERS.
- SINGLE POLE LINE VOLTAGE TOGGLE SWITCHES MAY BE USED WHERE AUTOMATIC LIGHTING CONTROLS WOULD ENDANGER LIFE SAFETY OR ARE EXEMPT FOR EGRESS RELATED LIFE SAFETY REASONS.

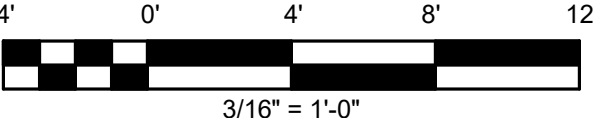
GENERAL LIGHTING NOTES

- 1. ALL EXIT SIGNS SHALL BE CONNECTED TO AN UNSWITCHED LEG OF THE LOCAL EMERGENCY LIGHTING CIRCUIT.
- 2. UNLESS NOTED OTHERWISE, EMERGENCY LIGHTING ON INVERTER SHALL BE SWITCHED WITH LOCAL LIGHTING VIA BODINE BLCD-20B TRANSFER DEVICE OR EQUIVALENT. REFER TO EMERGENCY LIGHTING DETAIL FOR ADDITIONAL INFORMATION.
- 3. ALL EXTERIOR FIXTURES AT EGRESS DOORS SHALL BE CONNECTED TO THE EMERGENCY EGRESS LIGHTING CIRCUIT FOR THAT BUILDING.
- 4. IN MECHANICAL ROOMS AND I.T. CLOSETS, ADJUST LIGHT FIXTURE LOCATIONS AS NECESSARY FOR DUCTWORK, EQUIPMENT, RACKS, ETC.
- 5. EXTERIOR LIGHTING SHALL BE CONTROLLED BY TORK DWZ100B DIGITAL ASTRONOMIC TIME CLOCK UNLESS NOTED OTHERWISE.



1 BUS MAINTENACE BUILDING
SCALE: 3/16" = 1'-0"

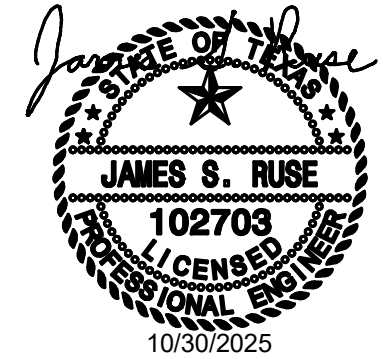
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EULA ISD
BUS AND MAINTENANCE FACILITY
LIGHTING PLAN

NO.	REVISION	DATE	PROJECT & SCALE	SHEET
1	ADDENDUM 1	10/30/2025	24103 As Indicated	E2.1
			BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY.	

JACOB MARTIN
TBAE FIRM # 2448
TBEPLS FIRM # 10194493



FEEDER & BREAKER SCHEDULE
3-PHASE 4-WIRE COPPER

CIRCUIT AMPACITY	CIRCUIT BREAKER	CONDUCTOR SETS, QTY & SIZE	EQUIP. GROUND	CONDUIT
NEC TABLE 310.15(B)(16)	NEC 240.4(B)	NEC TABLE 310.15(B)(16)	NEC TABLE 250.122	
20 A	20 A, 3P	1 SET OF 4	#12 G	3/4"
30 A	25 A, 3P	1 SET OF 4	#10 G	3/4"
30 A	30 A, 3P	1 SET OF 4	#10 G	3/4"
40 A	35 A or 40 A, 3P	1 SET OF 4	#8 G	1"
55 A	45 A or 50 A, 3P	1 SET OF 4	#6 G	1"
70 A	60 A, 3P	1 SET OF 4	#4 G	1-1/4"
70 A	70 A, 3P	1 SET OF 4	#8 G	1-1/4"
85 A	80 A or 90 A, 3P	1 SET OF 4	#3 G	1-1/4"
95 A	100 A, 3P	1 SET OF 4	#2 G	1-1/2"
110 A	110 A, 3P	1 SET OF 4	#1 G	2"
130 A	125 A, 3P	1 SET OF 4	#1 G	2"
150 A	150 A, 3P	1 SET OF 4	#1/0 G	2"
175 A	175 A, 3P	1 SET OF 4	#2/0 G	2"
200 A	200 A, 3P	1 SET OF 4	#3/0 G	2"
230 A	225 A, 3P	1 SET OF 4	#4/0 G	2-1/2"
255 A	250 A, 3P	1 SET OF 4	#250 G	3"
310 A	300 A, 3P	1 SET OF 4	#350 G	3"
380 A	350 A, 3P	1 SET OF 4	#500 G	4"
400 A	400 A, 3P	2 SETS OF 4	#3/0 G	2"
460 A	450 A, 3P	2 SETS OF 4	#4/0 G	2-1/2"
510 A	500 A, 3P	2 SETS OF 4	#250 G	2-1/2"
620 A	600 A, 3P	2 SETS OF 4	#350 G	3"
760 A	700 A, 3P	2 SETS OF 4	#500 G	3"
855 A	800 A, 3P	3 SETS OF 4	#300 G	2-1/2"
1,005 A	1,000 A, 3P	3 SETS OF 4	#400 G	3"
1,240 A	1,200 A, 3P	4 SETS OF 4	#350 G	3"
1,675 A	1,600 A, 3P	5 SETS OF 4	#400 G	3"
2,010 A	2,000 A, 3P	6 SETS OF 4	#400 G	3"
2,660 A	2,500 A, 3P	7 SETS OF 4	#500 G	3.5"
3,040 A	3,000 A, 3P	8 SETS OF 4	#500 G	4"
4,180 A	4,000 A, 3P	11 SETS OF 4	#500 G	4"

NEC 250.66
GROUNDING
ELECTRODE
CONDUCTOR

GEC FOR SERVICES,
BUILDING FEEDERS AND
SEPARATELY DERIVED
SYSTEMS & SERVICES

LARGEST CONDUCTOR OR EQUIVALENT AREA OF PARALLEL CONDUCTORS (COPPER)	GEC (CU)
14 - 2	#8 G
1 - 1/0	#6 G
2/0 - 3/0	#4 G
3/0+ - 350	#2 G
351 - 600	#1/0 G
601 - 1100	#2/0 G
1100+	#3/0 G

5. WHERE **S** SYMBOL IS SHOWN, PROVIDE SERVICE FEEDER WITH AMPACITY EQUAL TO OR GREATER THAN THAT OF THE SERVICE DISCONNECT, WITH NO EQUIPMENT GROUND CONDUCTOR. CONTRACTOR TO PROVIDE (1) SPARE CONDUIT OF EQUAL SIZE FOR SERVICE ENTRANCE FEEDERS 2,000A OR LARGER.

6. WHERE **2HR** SYMBOL IS SHOWN, NORMAL AND EMERGENCY FEEDERS SERVING FIRE PUMP AND FIRE SERVICE ELEVATOR SHALL BE ENCASED IN CONCRETE PROVIDING 2-HOUR FIRE RATING. A 2- HOUR RATING SHALL BE MAINTAINED FROM THE ROOM CONTAINING THE FEEDER'S SOURCE BREAKER OR DISCONNECT TO THE ROOM CONTAINING THE ATS. THE ELEVATOR FEEDER IS NOT REQUIRED TO BE ENCASED IN CONCRETE INSIDE THE ELEVATOR HOISTWAY OR PENTHOUSE.

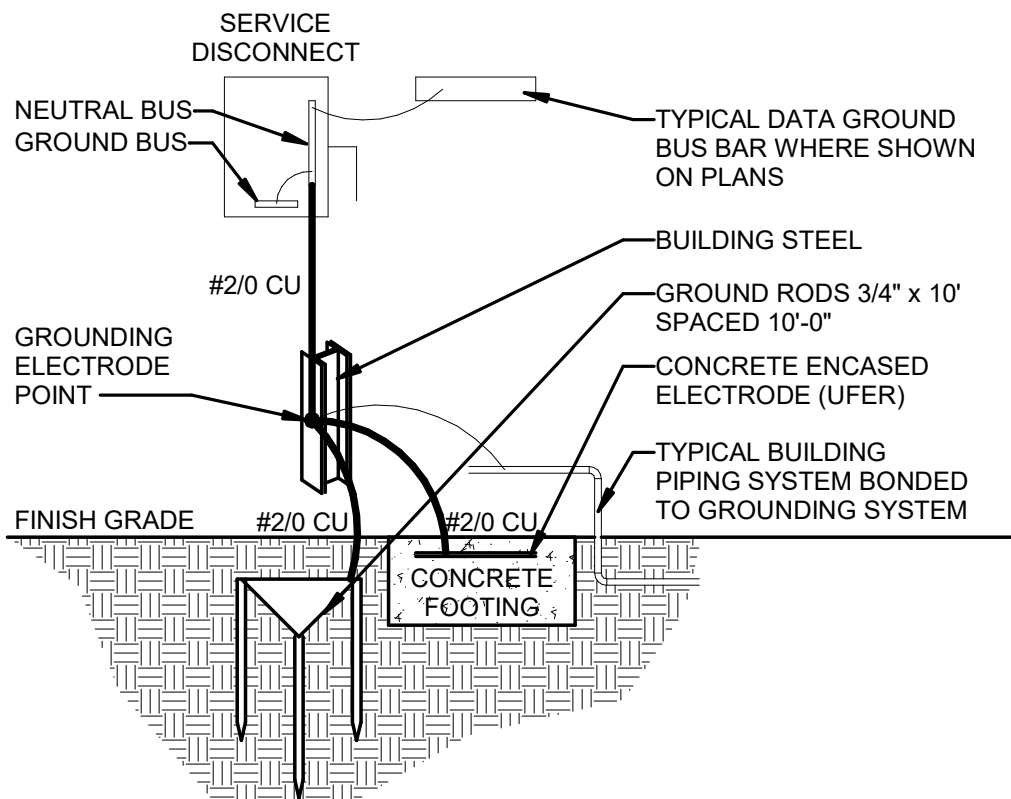
FEEDER & BREAKER SCHEDULE NOTES:

1. WHERE **B** SYMBOL IS SHOWN, PROVIDE FEEDER ACCORDING TO THE "CIRCUIT BREAKER" COLUMN SHOWN ABOVE. FEEDER TO BE 4-WIRE PLUS GROUND UNLESS NOTED OTHERWISE.

2. USE **TABLE 250.122** TO DETERMINE SIZE OF EQUIPMENT GROUNDING CONDUCTOR (EGC) FOR BRANCH CIRCUITS, RACEWAY, CONDUIT, MOTOR CIRCUITS, AND WHERE PARALLEL FEEDERS ARE RUN, USE TOTAL EQUIVALENT AREA OF PARALLELED CONDUCTORS FOR SIZING PARALLEL GECS.

3. USE COMPRESSION LUGS FOR FEEDERS OVER 100A.

4. USE **TABLE 250.66** TO DETERMINE THE GROUNDING ELECTRODE CONDUCTOR (GEC) SIZE AT THE SERVICE ENTRANCE, AT EACH BUILDING OR STRUCTURE WHERE SUPPLIED BY A FEEDER(S), AT TRANSFORMERS, OR AT ANY OTHER SEPARATELY DERIVED SYSTEM.

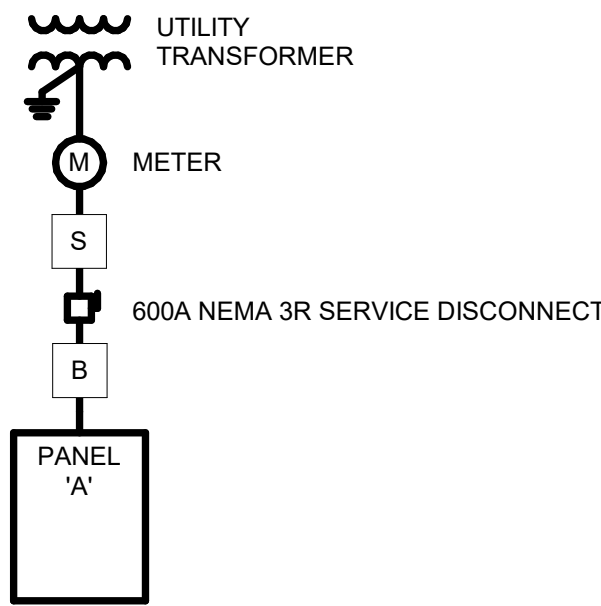


- SERVICE ENTRANCE GROUNDING DETAIL NOTES:
- AT THE CONTRACTOR'S OPTION, ANY ONE OF THE THREE ALLOWED ELECTRODE SYSTEMS SHOWN MAY BE USED AS THE MAIN GROUNDING ELECTRODE POINT (BUILDING STEEL, GROUND RODS OR "UFER") WITH ALL OTHER ELECTRODES BONDED TO IT. THE EXAMPLE SHOWN USES BUILDING STEEL AS THE MAIN ELECTRODE POINT.
 - THE GROUNDING ELECTRODE CONDUCTOR (GEC) SHALL BE SIZED IN ACCORDANCE WITH NEC TABLE 250.66. REFER TO FEEDER SCHEDULE.

AVAILABLE FAULT CURRENT CALCULATION
(INFINITE FAULT CURRENT ON PRIMARY)

$$AFC = \frac{124 \text{ kVA} \times 1000}{208\sqrt{3}\text{SQRT}(3) \times 2.8\%}$$

MAXIMUM 3Φ AFC = 12292A



1 SINGLE LINE DIAGRAM
SCALE: N.T.S.

Branch Panel: A

Mounting: SURFACE
Supply From:
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4

A.I.C. Rating: 22kAIC
Mains Type: MLO
Mains Rating: 600 A

CKT	Circuit Description	BKR (A)	P	Load (A)	A		B		C		Load (A)	P	BKR (A)	Circuit Description	CKT
1						360					3	1	20	GFCI Receptacles	2
3	Automatic Door	20	1	2			180	400			3	1	20	Exterior Lighting	4
5	EXHAUST FANS	20	1	3					360	540	5	1	20	Bus Barn Receptacles	6
7	Ice Machine (GFI)	20	1	5	540	861					7	1	20	Bus Work Bay Lighting	8
9	Building B Lighting	20	1	6			778	910			8	1	20	Breakroom And Tool-Room...	10
11	Building B Lighting	20	1	7					818	1176	10	1	20	CP-1	12
13	Tool-Room Receptacles	20	1	11	1260	1250					12	2	20		14
15	Fuel Pump	20	1	2			180	1250			--	--	--		16
17	Fuel Pump	20	1	2					180	250	2	2	20	Air Handling Unit 2	18
19	Office Receptacle	20	1	12	1440	250					--	--	--		20
21	Air Handling Unit 1	20	2	4			416	180			2	1	20	Drop Down Chord (GFI)	22
23	--	--	--	--					416	1248	12	2	20	Condensing Unit 2	24
25	Air Handling Unit 1	30	2	21	2163	1248					--	--	--		26
27	--	--	--	--			2163	180			2	1	20	Automatic Door	28
29	Air Handling Unit 2	25	2	17					1747	1824	18	2	25	Condensing Unit 1	30
31	--	--	--	--	1747	1824					--	--	--		32
33	Welding Mac hine	60	2	48			4981	1080			9	1	20	Building B Receptacles	34
35	--	--	--	--					4981	180	2	1	20	Washing Machine (GFI)	36
37	Drying Machine	45	2	35	3600	180					2	1	20	Drop Down Chord (GFI)	38
39	--	--	--	--			3600	180			2	1	20	Powered Gate and Site Light	40
41	Fridge (GFI)	20	1	2					180	180	2	1	20	Drop Down Chord (GFI)	42
43	Automatic Door	20	1	2	180	1080					9	1	20	Breakroom Receptacles	44
45								4982			48	2	60	Welding Machine	46
47	Receptacle	20	1	9					1080	4982	--	--	--		48
49	Welding Machine	60	2	48	4982	6725					56	3	70	Utility Heater 1	50
51	--	--	--	--			4982	6725			--	--	--		52
53	Welding Machine	60	2	48					4982	6725	--	--	--	--	54
55	--	--	--	--	4982	6725					56	3	70	Utility Heater 2	56
57	Water Heater	20	3	12			1500	6725			--	--	--	--	58
59	--	--	--	--					1500	6725	--	--	--	--	60
61	--	--	--	--	1500	138					1	2	20	Site Pole Lighting	62
63	Spare	20	1	--			0	138			--	--	--	--	64
65	Spare	20	1	--					0	0	--	1	20	Spare	66
67	Spare	20	1	--	0	0					--	1	20	Spare	68
69	Spare	20	1	--			0	0			--	1	20	Spare	70
71	Spare	20	1	--					0	0	--	1	20	Spare	72
73	Spare	20	1	--	0	0					--	1	20	Spare	74
75	Spare	20	1	--			0	0			--	1	20	Spare	76
77	Spare	20	1	--					0	0	--	1	20	Spare	78
79	Spare	20	1	--	0	0					--	1	20	Spare	80
81	Spare	20	1	--			0	0			--	1	20	Spare	82
83	Spare	20	1	--					0	0	--	1	20	Spare	84

Total Load: 43 kVA 42 kVA 40 kVA
Total Amps: 360 A 348 A 334 A

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Cooling	6144 VA	0.01%	1 VA	
Heating	40348 VA	100.00%	40348 VA	Total Conn. Load: 125 kVA
Lighting	4043 VA	100.00%	4043 VA	Total Conn. Amps: 346 A
Power	14200 VA	100.00%	14200 VA	Total Demand Load: 98 kVA
Receptacle	20047 VA	74.94%	15024 VA	Total Demand Amps: 271 A
WELDER	39851 VA	60.00%	23911 VA	

Schedule Notes:
TWO SECTION PANELBOARD

Summit
CONSULTANTS, I.N.C.

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EULA ISD
BUS AND MAINTENANCE FACILITY

SINGLE LINE DIAGRAM

NO.	REVISION	DATE
1	ADDENDUM 1	10/30/2025
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DOMESTIC ELECTRIC WATER HEATER SCHEDULE

REMARKS LEGEND

1. TWO ELECTRIC HEATING ELEMENTS SET FOR NON-SIMULTANEOUS OPERATION.
2. ADJUST STORAGE WATER TEMPERATURE IN ACCORDANCE WITH LOCAL ENERGY CODE REQUIREMENTS
3. OR EQUAL.

MARK	SERVICE	TYPE	STORAGE CAPACITY (GAL)	RECOVERY RATE (80 RISE) (GPH)	LEAVING WATER TEMPERATURE (F)	ELECTRICAL CHARACTERISTICS					MANUFACTURER	MODEL NUMBER	REMARKS
						# ELEMENTS	KW	VOLTS	PHASE	HZ			
WH1	DOMESTIC HOT WATER	ELECTRIC TANK	38	23	140	2	4.5	208	3	60	A.O. SMITH	DEL-40	1, 2, 3

PUMP SCHEDULE

REMARKS | LEGEND

1. PROVIDE 7-DAY TIME CLOCK FOR OPERATION OF CIRCULATION PUMP (SET TO OPERATE DURING NORMAL BUSINESS HOURS, ADJUSTABLE).
2. PUMPS SHALL BE RATED FOR CONTINUOUS OPERATION AT WATER TEMPERATURE OF CONNECTED SYSTEM.
3. OR EQUAL.

MARK	SERVICE	TYPE	FLOWRATE (GPM)	TOTAL DYNAMIC HEAD (FEET)	SPEED (RPM)	EFFIC. (%)	ELECTRICAL CHARACTERISTICS				MANUFACTURER	MODEL NUMBER	REMARKS
							HP	VOLTS	PHASE	HZ			
CP1	DOMESTIC HOT WATER CIRCULATION	INLINE CENTRIFUGAL PUMP	2	10	1750	65	1/25	115	1	60	GRUNDFOS	UP 15-42 B5	1, 2, 3

THERMOSTATIC MIXING VALVE SCHEDULE

REMARKS | LEGEND

1. PROVIDE AND INSTALL WITH PAINTED, SURFACE MOUNTED CABINET ASSEMBLY. VERIFY WITH ARCHITECTURAL SPECIFICATIONS FOR COLOR.
2. MIXING VALVE SHALL MEET ASSE CERTIFICATION OF SCHEDULED USE.
3. OR EQUAL.

MARK	SERVICE	TYPE	FLOWRATE CAPACITY		PRESSURE DROP (PSIG)	INLET HOT WATER TEMPERATURE (F)	INLET COLD WATER TEMPERATURE (F)	LEAVING WATER TEMPERATURE (F)	MANUFACTURER	MODEL NUMBER	REMARKS
			HIGH (GPM)	LOW (GPM)							
TSMV1	TEMPERED HOT WATER	MASTER MIXING VALVE	6	0.5	10	140	57	105	LEONARD	370-LF	1, 2, 3

HEAT TRACE CONTROLLER AND CABLE SCHEDULE

1. INSTALL AND SECURE HEATING CABLES, CONTROLLER, AND TEMPERATURE DETECTOR PER MANUFACTURER'S SYSTEM INSTALLATION AND OPERATION MANUAL.
2. CONTROLLER SHALL INCLUDE A SELF TESTING SEQUENCE MONTHLY OR MORE FREQUENTLY. SYSTEM SHALL BE CAPABLE OF ALARMING BMS OR LOCAL CONTROL PANEL.
3. CABLE TO BE SELF REGULATING TYPE AND SHALL OPERATE ON LINE (277 V) WITHOUT THE USE OF A TRANSFORMER.
4. PROVIDE HIGH TEMPERATURE GLASS FILAMENT TAPE FOR METAL AND HIGH TEMPERATURE ALUMINUM TAPE FOR PLASTIC TO BE INSTALLED OVER HEATING CABLE. BASIS OF DESIGN'S INVENT RAYCHEM CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEVIATIONS FROM THE BASIS OF DESIGN.
5. PROVIDE TEMPERATURE DETECTOR FROM MANUFACTURER OF CONTROLLER.
7. HEATING CABLE SHALL BE CAPABLE OF CROSSING OVER ITSELF WITHOUT OVER HEATING.

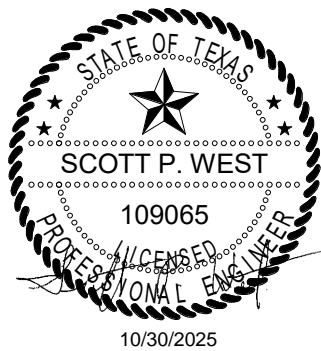
CONTROLLER							CABLE							REMARKS
MARK	LOCATION	ELECTRICAL			MANUFACTURER	MODEL	MARK	LOCATION	SYSTEM TYPE	SET POINT (°F)	LENGTH (FEET)	MANUFACTURER	MODEL	
		KW	MOCP	V/PHASE/HZ										
HTC1	EXTERIOR RPZ	2.5	20	208/116/0	RAYCHEM	C910-485	HT1-1	RPZ ENCLOSURE	2" DWC	45	10	RAYCHEM	5XL2	1,2,3,4,5,6,7

PIPING SCHEDULE

SCHEDULE NOTES:

1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL WATER PIPING LESS THAN 6 INCH DIAMETER SUBJECT TO FREEZING SHALL BE INSULATED (MIN. R-3) AND HEAT TRACED, UNLESS OTHERWISE NOTED.
3. PIPE FITTINGS ARE LISTED IN ACCORDANCE WITH PIPE TYPES IN ORDER. DO NOT MIX FITTING TYPES.
4. ALL PIPE REFERENCE TO INDOOR UNLESS OTHERWISE NOTED IN THE SYSTEM TYPE.
5. ALL EXTERIOR PIPING SHALL BE UL RATED FOR UV EXPOSURE.

SYSTEM TYPE	ABBREVIATION	LOCATION	SIZE RANGE	PIPE TYPE	FITTING AND JOINTS	INSULATION AND JACKETING
CONDENSATE DRAINAGE	D	INDOOR	ALL	DWV COPPER ASTM B88	PRESSURE FITTINGS AND SOLDER JOINT OR BRAZED JOINTS	1" MINERAL FIBER OR GLASS FIBER ASTM C547 TYPE 1 W/ ASJ ASTM C1136 VAPOR BARRIER AND ASTM E84 25/50
		OUTDOOR	ALL	DWV COPPER ASTM B88	PRESSURE FITTINGS AND SOLDER JOINT OR BRAZED JOINTS	1" MINERAL FIBER OR GLASS FIBER ASTM C547 TYPE 1 W/ SMOOTH ROLL ALUMINUM JACKET ASTM C1729
DOMESTIC COLD WATER	DCW	ABOVE GROUND	2" AND SMALLER	TYPE L COPPER ASTM B88	PRESSURE FITTINGS AND SOLDER JOINT OR BRAZED JOINTS OR PRESS FITTINGS	1" MINERAL FIBER OR GLASS FIBER ASTM C547 TYPE 1 W/ 30 MIL PVC JACKETING ASTM D 1784 16354-C AND ASTM E84 25/50
			2-1/2" AND LARGER	TYPE L COPPER ASTM B88	PRESSURE FITTINGS AND SOLDER JOINT OR BRAZED JOINTS	1" MINERAL FIBER OR GLASS FIBER ASTM C547 TYPE 1 W/ 30 MIL PVC JACKETING ASTM D 1784 16354-C AND ASTM E84 25/50
		BELOW GROUND	3" AND SMALLER	TYPE K COPPER ASTM B88	PRESSURE FITTINGS AND SOLDER JOINT OR BRAZED JOINTS	1" MINERAL FIBER OR GLASS FIBER ASTM C547 TYPE 1 W/ 30 MIL PVC JACKETING ASTM D 1784 16354-C AND ASTM E84 25/50
			4" AND LARGER	TYPE K COPPER ASTM B88; DUCTILE IRON AWWA C151/A21.51; SOLID CORE SCH. 80 PVC	SOLDER JOINT OR BRAZED JOINT; MECHANICAL JOINT W/ THRUST RESTRAINT OR PUSH W/ GASKET; SOCKET FITTINGS AND SOLVENT-CEMENTED JOINTS	1" MINERAL FIBER OR GLASS FIBER ASTM C547 TYPE 1 W/ 30 MIL PVC JACKETING ASTM D 1784 16354-C AND ASTM E84 25/50
DOMESTIC COLD WATER	DCW	EXTERIOR	ALL	TYPE L COPPER ASTM B88	PRESSURE FITTINGS AND SOLDER JOINT OR BRAZED JOINTS	1-1/2" MINERAL FIBER OR GLASS FIBER ASTM C547 TYPE 1 W/ 30 MIL PVC JACKETING ASTM D 1784 16354-C AND ASTM E84 25/50
DOMESTIC HOT WATER	DHW, DHWR	ABOVE GROUND	2" AND SMALLER	TYPE L COPPER ASTM B88	PRESSURE FITTINGS AND SOLDER JOINT OR BRAZED JOINTS OR PRESS FITTINGS	1-1/2" MINERAL FIBER OR GLASS FIBER ASTM C547 TYPE 1 W/ 30 MIL PVC JACKETING ASTM D 1784 16354-C AND ASTM E84 25/50
			2-1/2" AND LARGER	TYPE L COPPER ASTM B88	PRESSURE FITTINGS AND SOLDER JOINT OR BRAZED JOINTS	1-1/2" MINERAL FIBER OR GLASS FIBER ASTM C547 TYPE 1 W/ 30 MIL PVC JACKETING ASTM D 1784 16354-C AND ASTM E84 25/50
		BELOW GROUND	3" AND SMALLER	TYPE K COPPER ASTM B88	PRESSURE FITTINGS AND SOLDER JOINT OR BRAZED JOINTS	1-1/2" MINERAL FIBER OR GLASS FIBER ASTM C547 TYPE 1 W/ 30 MIL PVC JACKETING ASTM D 1784 16354-C AND ASTM E84 25/50
			4" AND LARGER	TYPE K COPPER ASTM B88; DUCTILE IRON AWWA C151/A21.51; SOLID CORE SCH. 80 PVC	SOLDER JOINT OR BRAZED JOINT; MECHANICAL JOINT W/ THRUST RESTRAINT OR PUSH W/ GASKET; SOCKET FITTINGS AND SOLVENT-CEMENTED JOINTS	1-1/2" MINERAL FIBER OR GLASS FIBER ASTM C547 TYPE 1 W/ 30 MIL PVC JACKETING ASTM D 1784 16354-C AND ASTM E84 25/50
DRAINAGE WASTE AND VENT (INCLUDING <120°F FAT, OIL, AND GREASE DRAINAGE)	BS, BD, W, V, GD, GW, OW	ABOVE GROUND	ALL	SERVICE CLASS CAST-IRON SOIL PIPE; DWV COPPER ASTM B88; SOLID CORE SCH. 40 PVC ASTM D2665	CAST-IRON SOIL PIPE FITTINGS GASKETED JOINTS OR CISPI HEAVY DUTY HUBLESS PIPING COUPLINGS AND COUPLED JOINTS; DWV FITTINGS AND SOLDER JOINTS; SOCKET FITTINGS AND SOLVENT-CEMENTED JOINTS ASTM D2564	N/A
		BELOW GROUND	ALL	EXTRA HEAVY SERVICE CLASS CAST-IRON SOIL PIPE; DWV COPPER ASTM B88; SOLID CORE SCH. 40 PVC ASTM D2321	CAST-IRON SOIL PIPE FITTINGS GASKETED JOINTS OR CISPI HEAVY DUTY HUBLESS PIPING COUPLINGS AND COUPLED JOINTS; DWV FITTINGS AND SOLDER JOINTS; SOCKET FITTINGS AND SOLVENT-CEMENTED JOINTS ASTM D2564	N/A
NATURAL GAS	G	ABOVE GROUND	2" AND SMALLER	SCH. 40 STEEL ASTM A53 A	MALLEABLE-IRON FITTINGS AND THREADED JOINTS OR WROUGHT STEEL FITTINGS AND WELDED JOINTS OR PRESS FITTINGS	N/A
			2-1/2" AND LARGER	SCH. 40 STEEL ASTM A53 A	MALLEABLE-IRON FITTINGS AND THREADED JOINTS OR WROUGHT STEEL FITTINGS AND WELDED JOINTS	N/A
		BELOW GROUND	ALL	POLYETHYLENE ASTM D2513	SOCKET FUSION WELDED POLYETHYLENE FITTINGS D2683 OR BUTT FUSION WELDED POLYETHYLENE FITTINGS D3261	N/A



MARTIN

-93-

TBAE FIRM
BR 2261BPE FIRM
2448

EULA ISD
BUS AND MAINTENANCE FACILITY

PLUMBING SCHEDULES

NO.	REVISION	DATE
1	ADDENDUM 1	10/30/2025

PROJECT # SCALE BAR IS ONE INCH IN LENGTH ON ORIGINAL DRAWING. CHECK SCALE AND ADJUST ACCORDINGLY.

24 103

P0.2



CONSULTANTS, INC.

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