BVH
ARCHITECTURE

ADDENDUM

ADDENDUM NO.: #03
DATE: 02/15/2024

PROJECT: Woodhouse Ford Pro: Building Improvements
PROJECT #: 23043

TO: Prospective Bidders

This Addendum is issued by the Architect to all bidders of record prior to receipt of proposals. Bidders shall acknowledge receipt of this addendum by so indicating on the Proposal Form. Failure to do so may subject Bidder to disqualification. All information and instructions given herein shall become a part of the Contract Documents.

GENERAL: RFI's received from Ideal Construction are attached with answers provided by BVH and Morrissey Engineering.

DRAWINGS (ALL REVISED DRAWINGS ATTACHED)

1. **A1.2B - FIRST FLOOR PLAN - AREA B**
    a. Add Note 26:
        i. GRIND DOWN EXISTING PIT 16" BELOW NEW SLAB. INFILL WITH WELL COMPACTED GRANULAR FILL OR COVER PIT W/ METAL DECK PRIOR TO SLAB INFILL. VERIFY EXTENTS.
    b. Estimated extents of pits shown on plan with note 26 added.

SEE ATTACHED MORRISSEY ENGINEERING ADDENDUM NARRATIVE AND DRAWINGS.

END OF ADDENDUM

morrissey engineering inc

mechanical | electrical | lighting | technology | commissioning

addendum

addendum no.	03
date:	2/15/2024
bid date:	n/a
project name:	Woodhouse Ford Pro
project no:	23416

This addendum is hereby made a part of the contract documents to the same extent as if it were originally included therein. Contract documents shall be considered modified or revised as hereinafter described.

electrical items

1. Sheet E1.1 – FLOOR PLAN – LIGHTING – AREA A
    a. Revise HVLS fan circuiting.
2. Sheet E1.2 – FLOOR PLAN – LIGHTING – AREA B
    a. Revise HVLS fan circuiting.
3. Sheet E1.3 – FLOOR PLAN – LIGHTING – AREA C
    a. Revise HVLS fan circuiting.
4. Sheet E4.1 – ELECTRICAL PANEL SCHEDULES
    a. Revise panel schedules.

end of addendum

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Woodhouse Ford Pro: Building Improvements

6603 L Frontage Rd S

RFI's as of 2/13/24

- Answered by BVH and MEI 2/15/2024. Answers in RED.

1. Could we get clarification on the new fire alarm devices shown in the Maserati space per E1.1 and if they truly intend for work to go on in that space.
    a. Fire alarm coverage is being added in all areas, including Maserati.
2. In the existing electrical room 28 there are two transformers that are in violation of NEC 110.26 clearance requirements. Can you advise if we should include this in our proposals to relocate. Please advise where to relocate if so.
    a. No work occurs at these transformers. It is an existing condition we anticipate to remain.
3. NEC 511.3C states we have a class 1 division 2 location extending from the floor to a height of 18" in the repair area. It also states that if the transfer of "lighter then air" gaseous fuels takes place the ceiling shall also be classified with that same boundary requirement. If that is the case the existing electrical feeders and branch circuit raceways that are attached to the structure within this boundary will have to be moved out or installed in a manner acceptable. Can you please confirm if this ceiling is going to be classified as such or if it shall remain unclassified.
    a. Areas 18" above floor are unclassified. The service departments contain the minimum ventilation required.
4. Roof material manufacturer?
    a. EPDM roof: Unknown.
    b. There is a chance the existing PVC roof manufacture is Duralast, but that should be verified.
5. Is there an existing warranty? If so, what is the coverage type? (10yr, 20 yr, etc + wind speed coverage, hail coverage, etc)
    a. Unknown.
6. What are the roofing layers? (How many layers of ISO and at what thickness? Coverboard? Vapor Barrier?.. etc) - I could get core samples if this information is not known!
    a. Unknown. Bidders should include core samples of the existing roof assemblies in their bid.

b. Area A roof is potentially adhered, as no visible fasteners were visible from the interior showroom.
c. The PVC roof in Areas B+C was potentially provided as a retrofit system where the original metal building sheet metal roofing flutes were infilled with polyiso, then another layer of polyiso was added on top of the flute filler. This should be verified in a core sample.

7. The HVLS fans that were specified are not available in single phase. I have provided the spec sheet below. Please advise if these are acceptable as 3 phase. (Specs Attached)
    a. 3 phase is acceptable. We can update the plans to show this.

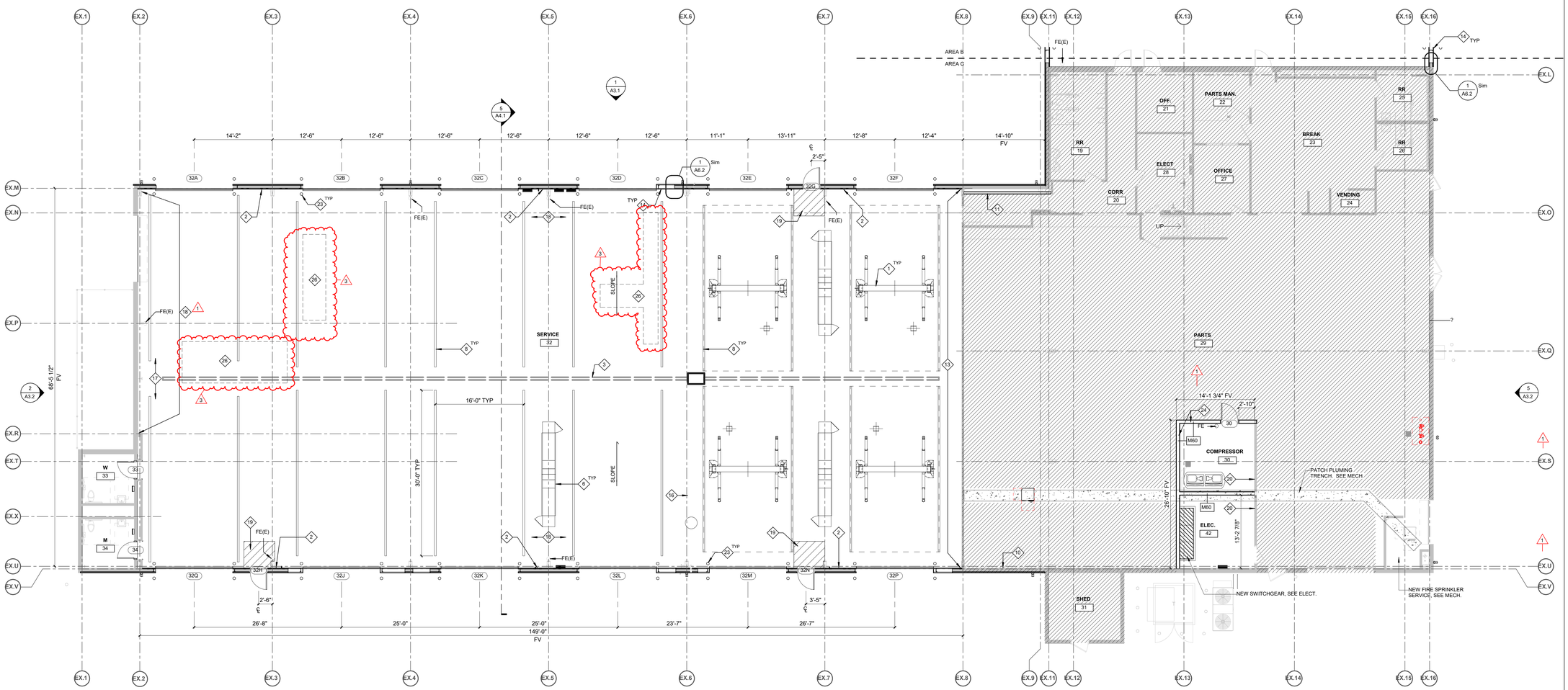
8. The lead time on the specified switchgear is between 44 and 48 weeks (Siemens and SQ D). Would a 1200 amp panelboard be an acceptable alternative to the switchgear seeing as this project is time sensitive? The current lead time on a 1200 amp panelboard is around 35 weeks and is cheaper than the switchgear option. Please advise if this would be acceptable to quote.
    a. A 1200A distribution panel is acceptable if it can accept all the circuit breakers shown on the schedule, has GFPE, RELT, and all other options shown on the switchboard schedule.

FLOOR PLAN GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF WALL U.N.O.
2. FIELD VERIFY ALL DIMENSIONS.
3. SHOP EQUIPMENT, VEHICLE EXHAUST, AND COMPRESSED AIR DISTRIBUTION BY OWNER, COORDINATE WITH OWNER'S EQUIPMENT VENDOR.
4. PROVIDE 15 MIL VAPOR BARRIER UNDER NEW SLABS. STEGO WRAP OR SIMILAR MEETING ASTM E1745 CLASS A. SEE STRUCTURAL FOR SLAB THICKNESS. PATCH EXISTING VB WHERE EXISTING SLABS ARE CUT, OR TIE INTO NEW.
5. SLOPE SLAB TO DRAINS @ 1/8"/FT.
6. DO NOT LOCATE SAW CUT FLOOR JOINTS UNDER VEHICLE LIFT BASE PLATES PER MFR.
7. PROVIDE VAPOR RETARDANT PAINT PRIMER AS INDICATED ON FINISH PLAN (1/A9.1).
8. SEE CIVIL FOR EXTERIOR BOLLARDS.
9. FIRE EXTINGUISHERS: DRY CHEMICAL TYPE, 10 POUNDS.
10. REFER TO STRUCTURAL FOR ALL STOOP LOCATIONS.
11. FE=BRACKET MOUNTED FIRE EXTINGUISHER. FEC= SEMI-RECESSED FIRE EXCTINGUISHER CABINET. (E) DENOTES EXISTING.

FLOOR PLAN NOTES

1. HD TWIN-POST LIFT BY OWNER
2. NEMA1450 OUTLET FOR CONNECTION OF LEVEL 2 ELECTRIC VEHICLE CHARGER, SEE ELECT.
3. TRENCH DRAIN, SEE MECH. SLOPE SLAB TO DRAIN, 1/8" / FT
4. ALIGNMENT RACK PIT. SLOPE TO DRAIN 1/8" / FT
5. PAINT GWB CEILING P-1, TYP.
6. WORK BENCH BY OWNER
8. 4" YELLOW PAINTED STRIPE, SEE FINISH PLAN
9. NEW ALUMINUM STOREFRONT
10. SEE STRUCTURE FOR BRACING MODIFICATIONS
11. SEE STRUCT. FOR NEW BRACING. RECONSTRUCT WALL W/ 3-5/8" MTL STUD AND 5/8" GWB. PAINT TO MATCH EXISTING. PROVIDE NEW RUBBER BASE TO MATCH EXISTING, OR SALVAGE EXISTING.
12. EXTEND EXISTING WALL TO STRUCTURE. 5/8" GWB EA SIDE.
13. REPLACE LINER PANEL AND GWB ABOVE.
14. REPLACE WALL ASSEMBLY AS REQ'D FOR NEW OPENING. SEE DETAIL 14/A6.1.
15. 8" CMU WALL, 5'-0" TALL. BULLNOSE CORNERS.
16. OIL INTERCEPTOR BASIN, SEE MECH.
17. NEMA1450 OUTLET FOR CONNECTION OF LEVEL 2 ELECTRIC VEHICLE CHARGER, SEE ELECT.
18. NEW METAL WALL LINER PANEL AND THERMAL INSULATION. SEE DETAIL 14/A6.1.
19. PAINTED CLEARANCE STRIPING, YELLOW
20. ADD (1) LAYER 5/8" GWB TO EXISTING STUDS, APPROX 8'-0" TO STRUCTURE
21. FRAMELSS GLASS ON HALF-HEIGHT WALL @ EA ADVISOR, SEE INT. ELEVATIONS.
22. DOOR OPERATOR CONTROL STATION.
23. 6" GALVANIZED STL BOLLARD W/ BASE PLATE. PAINT SAFTEY YELLOW.
24. EXTEND NEW WALL TO ROOF STRUCTURE.
25. ENLARGE EXISTING OPENING AS REQUIRED FOR NEW DOOR AND FRAME.
26. GRIND DOWN EXISTING PIT 16" BELOW NEW SLAB. INFILL WITH WELL COMPACTED GRANULAR FILL OR COVER PIT W/ METAL DECK PRIOR TO SLAB INFILL. VERIFY EXTENTS.



1 FIRST FLOOR PLAN - AREA C
1/8" = 1'-0"

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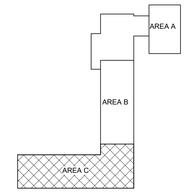
REVISIONS SCHEDULE		
MARK	DATE	DESCRIPTION
1	02/01/2024	ADDENDUM 1
3	02/15/2024	ADDENDUM 3



WOODHOUSE FORD PRO: BUILDING IMPROVEMENTS

PROJECT: 23043 **DATE:** DEC 19, 2023
PROJECT STATUS: CD SUBMITTAL

FIRST FLOOR PLAN - AREA C

NORTH

A1.2B

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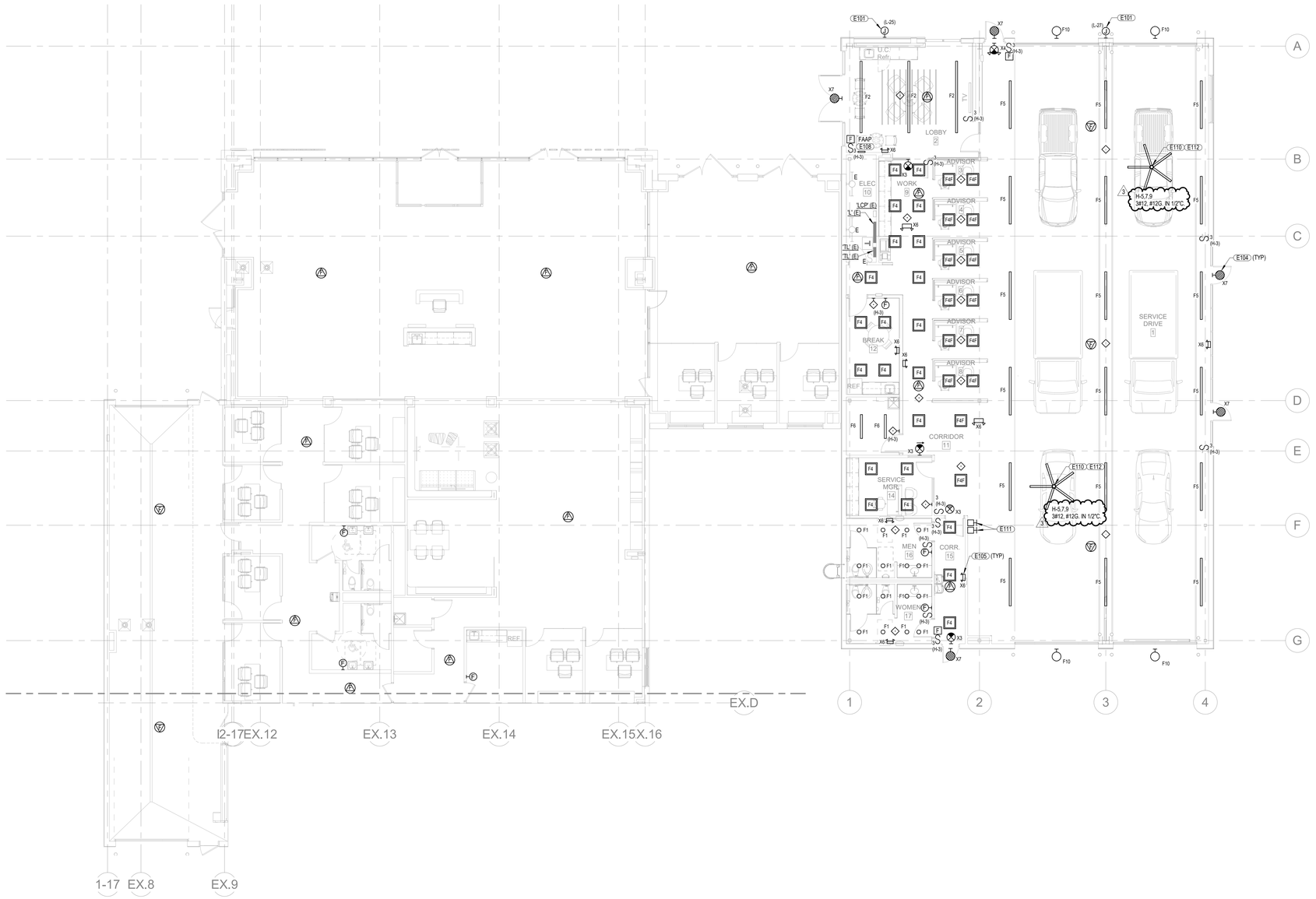

1 FIRST FLOOR - LIGHTING - AREA A

1/8" = 1'-0"

KEYNOTES

E101	PROVIDE FINAL CONNECTION TO SIGNAGE. COORDINATE LOCATION AND ALL REQUIREMENTS WITH SIGN CONTRACTOR PRIOR TO ROUGH-IN. PROVIDE AN APPROPRIATE LOCAL DISCONNECTING MEANS MOUNTED IN AN ACCESSIBLE, INCONSPICUOUS LOCATION THAT IS WITHIN SIGHT OF THE SIGN. CIRCUIT SIGN THROUGH EXISTING LIGHTING CONTROL PANEL.
E104	CIRCUIT ALL EXTERIOR LIGHTING IN AREA A TO PANEL H THROUGH EXISTING LIGHTING CONTROL PANEL. COORDINATE THE TIME OF DAY SCHEDULING WITH ALL OTHER EXTERIOR LIGHTING THROUGHOUT THE BUILDING.
E105	CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTING UNITS TO GENERAL LIGHTING CIRCUIT SERVING AREA AHEAD OF ALL SWITCHING AND DIMMING CONTROL. PROVIDE SENSING CONNECTIONS AS REQUIRED FOR OPERATION OF ALL EMERGENCY LIGHTING DEVICES. FOR LUMINAIRES WITH INTEGRAL BATTERIES, CONNECT BATTERY LEADS TO ROOM LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AND DIMMING CONTROL.
E108	PROVIDE 1/2" CONDUIT TO FACP.
E110	PROVIDE HVLS FAN. HUNTER 'ECO' SERIES, 8 FT DIAMETER, 480V, 1 PHASE WITH VARIABLE SPEED DIGITAL TOUCH SCREEN CONTROLLER. PROVIDE WITH ALL MOUNTING ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. FIELD VERIFY FAN LOCATION AND MAINTAIN ALL REQUIRED CLEARANCES.
E111	INSTALL VARIABLE SPEED DIGITAL TOUCH SCREEN CONTROLLER FURNISHED WITH HVLS FAN.
E112	PROVIDE FIRE ALARM RELAY TO SHUT DOWN FAN UPON ACTIVATION OF FIRE ALARM.

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2	02/07/2024	Addendum 02
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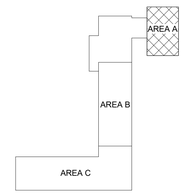

WOODHOUSE FORD PRO: BUILDING IMPROVEMENTS

PROJECT: 23043 **DATE:** JANUARY 19, 2024
PROJECT STATUS: CONSTRUCTION DOCUMENTS

FLOOR PLAN - LIGHTING - AREA A

NORTH

E1.1

MEI PROJECT NO: 23416

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SCALE 1-1/2" = 1'-0" INCH
SCALE 3" = 1'-0" INCH

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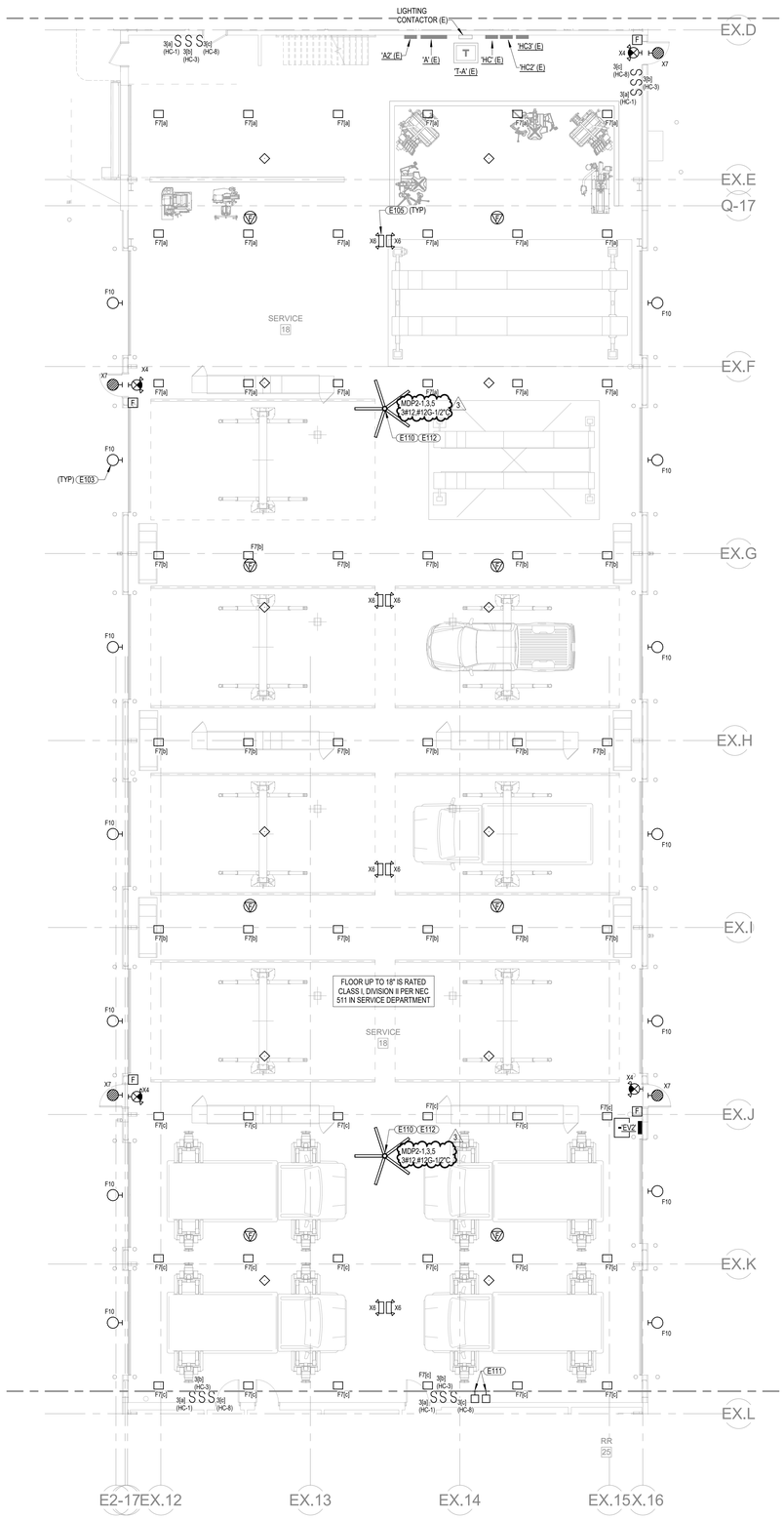

1 FIRST FLOOR - LIGHTING - AREA B

1/8" = 1'-0"

KEYNOTES

E103 CIRCUIT ALL EXTERIOR LIGHTING IN AREA B TO PANEL HC THROUGH EXSITING LIGHTING CONTACTORS. COORDINATE THE TIME OF DAY SCHEDULING WITH ALL OTHER EXTERIOR LIGHTING THROUGHOUT THE BUILDING.

E105 CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTING UNITS TO GENERAL LIGHTING CIRCUIT SERVING AREA AHEAD OF ALL SWITCHING AND DIMMING CONTROL. PROVIDE SENSING CONNECTIONS AS REQUIRED FOR OPERATION OF ALL EMERGENCY LIGHTING DEVICES. FOR LUMINAIRES WITH INTEGRAL BATTERIES, CONNECT BATTERY LEADS TO ROOM LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AND DIMMING CONTROL.

E110 PROVIDE HVLS FAN, HUNTER 'ECO' SERIES, 8 FT DIAMETER, 480V, 1 PHASE WITH VARIABLE SPEED DIGITAL TOUCH SCREEN CONTROLLER. PROVIDE WITH ALL MOUNTING ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. FIELD VERIFY FAN LOCATION AND MAINTAIN ALL REQUIRED CLEARANCES.

E111 INSTALL VARIABLE SPEED DIGITAL TOUCH SCREEN CONTROLLER FURNISHED WITH HVLS FAN.

E112 PROVIDE FIRE ALARM RELAY TO SHUT DOWN FAN UPON ACTIVATION OF FIRE ALARM.

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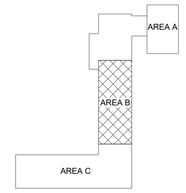
2	02/07/2024	Addendum 02
3	02/15/2024	Addendum 03



WOODHOUSE FORD PRO: BUILDING IMPROVEMENTS

PROJECT: 23043 **DATE:** JANUARY 19, 2024
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PROFESSIONAL ELECTRICAL ENGINEER
STEPHEN M FARRINGTON
E-11987
01/19/2024
STATE OF NEBRASKA

MEI PROJECT NO: 23416

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note:
do not scale drawings. verify all dimensions and clearances from architectural, structural, shop and other appropriate drawings or at site. lay out and coordinate all work prior to installation to provide clearances required for operation, maintenance, and codes and verify non-interference with other work. do not fabricate prior to verification of clearance for all trades.

FLOOR PLAN - LIGHTING - AREA B

NORTH

E1.2

SCALE 3/32" = 1'-0" FEET
SCALE 1/16" = 1'-0" FEET
SCALE 1/8" = 1'-0" FEET
SCALE 3/4" = 1'-0" FEET
SCALE 1/4" = 1'-0" FEET
SCALE 1-1/2" = 1'-0" INCH
SCALE 3" = 1'-0" INCH

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KEYNOTES

E102 PROVIDE TIMECLOCK AND CIRCUIT ALL EXTERIOR LIGHTING IN AREA C TO PANEL H2 THROUGH TIMECLOCK. COORDINATE THE TIME OF DAY SCHEDULING WITH ALL OTHER EXTERIOR LIGHTING THROUGHOUT THE BUILDING.

E105 CONNECT ALL EXIT SIGNS AND EMERGENCY LIGHTING UNITS TO GENERAL LIGHTING CIRCUIT SERVING AREA AHEAD OF ALL SWITCHING AND DIMMING CONTROL. PROVIDE SENSING CONNECTIONS AS REQUIRED FOR OPERATION OF ALL EMERGENCY LIGHTING DEVICES. FOR LUMINAIRES WITH INTEGRAL BATTERIES, CONNECT BATTERY LEADS TO ROOM LIGHTING CIRCUIT AHEAD OF ALL SWITCHING AND DIMMING CONTROL.

E106 PROVIDE TAMPER AND FLOW SWITCH FOR NEW FIRE SERVICE ENTRANCE AND FOR EACH SPRINKLER VALVE STATION REQUIRED TO BE SUPERVISED.

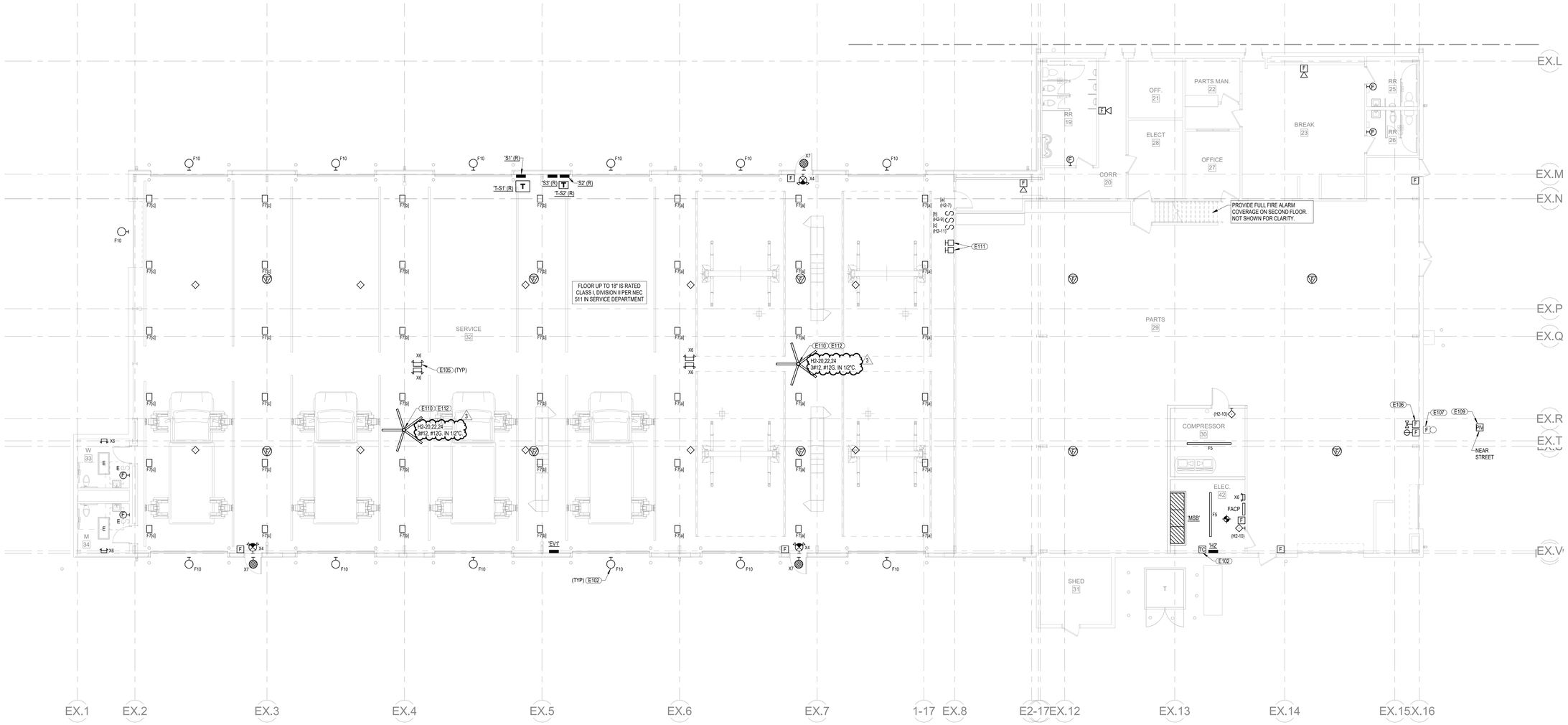
E107 PROVIDE EXTERIOR WEATHERPROOF NOTIFICATION APPLIANCE MOUNTED DIRECTLY ABOVE THE FIRE DEPARTMENT CONNECTION POINT. COORDINATE THE LOCATION OF THE FIRE DEPARTMENT CONNECTION POINT WITH THE FIRE SPRINKLER CONTRACTOR PRIOR TO ROUGH-IN.

E109 PROVIDE F.A. WIRING IN ½" CONDUIT FROM FIRE ALARM CONTROL PANEL TO ELECTRONICALLY SUPERVISED POST INDICATOR VALVE. COORDINATE EXACT LOCATION AND ALL REQUIREMENTS WITH FIRE SPRINKLER CONTRACTOR PRIOR TO ROUGH-IN.

E110 PROVIDE HVLS FAN, HUNTER 'ECO' SERIES, 8 FT DIAMETER, 480V, 1 PHASE WITH VARIABLE SPEED DIGITAL TOUCH SCREEN CONTROLLER. PROVIDE WITH ALL MOUNTING ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. FIELD VERIFY FAN LOCATION AND MAINTAIN ALL REQUIRED CLEARANCES.

E111 INSTALL VARIABLE SPEED DIGITAL TOUCH SCREEN CONTROLLER FURNISHED WITH HVLS FAN.

E112 PROVIDE FIRE ALARM RELAY TO SHUT DOWN FAN UPON ACTIVATION OF FIRE ALARM.



1 FIRST FLOOR - LIGHTING - AREA C

1/8" = 1'-0"

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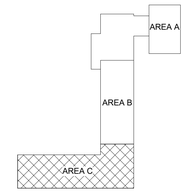

WOODHOUSE FORD PRO: BUILDING IMPROVEMENTS

PROJECT: 23043 **DATE:** JANUARY 19, 2024
PROJECT STATUS: CONSTRUCTION DOCUMENTS

PROFESSIONAL ELECTRICAL ENGINEER
STEPHEN M. FARRINGTON
E-11987
01/19/2024
REGISTERED PROFESSIONAL ENGINEER
STATE OF NEBRASKA

FLOOR PLAN - LIGHTING - AREA C

NORTH

E1.3

SCALE 3/32" = 1'-0" | 1/16" = 1'-0" | 1/8" = 1'-0" | 1/4" = 1'-0" | 1/2" = 1'-0" | 3/4" = 1'-0" | 1-1/2" = 1'-0" | 3" = 1'-0"

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EXISTING LIGHTING PANEL SCHEDULE

Panel: A
Rating: 225 A
Mounting: SURFACE
Type: MCB W/FEED THRU LUGS AND GND.BAR
Integral SPD: NO
Voltage: 120/208
Phase: 3
Wire: 4
A.I.C. Rating: EXISTING

Circuit Description	OPT	R	P	CKT	A	B	C	CKT	P	R	OPT	Circuit Description
GARAGE DOOR		20	1	1				2	2	50	N	FOUR POST LIFT
GARAGE DOOR		20	1	3				4				
TWO POST LIFT	N	60	2	5				6	2	50	N	FOUR POST LIFT
				7				8				
REC (E)	--	20	1	9				10	2	60	N	TWO POST LIFT
GARAGE DOOR		20	1	11				12				
GARAGE DOOR		20	1	13				14				
GARAGE DOOR		20	1	15				16	2	60	N	TWO POST LIFT
GARAGE DOOR		20	1	17				18	1	20	--	SE SERVICE DOOR (E)
GARAGE DOOR		20	1	19				20	1	20	N,G	WORKBENCH CORD REELS
GARAGE DOOR		20	1	21				22	1	20	N,G	WORKBENCH CORD REELS
REC - ROOFTOP REC		20	1	23				24	1	20	N,G	WORKBENCH CORD REELS
1 - WHEEL BALANCER	N,G	20	2	25				26	1	20	--	OFFICE REC (E)
				27				28	1	20	N,G	WORKBENCH CORD REELS
2 - RIM CLAMP TIRE CHANGER	N,G	20	2	29				30	1	15	N,G	4 - BENCH LATHE
				31				32	1	15	N,G	5 - CAR LATHE
3 - TIRE CHANGER	N,G	20	2	33				34	1	20	--	EXTERIOR LTG (E)
				35				36	1	20	--	GAS DETECTION PANEL
1 - WHEEL BALANCER	N,G	20	2	37				38	1	20	--	SPARE
SPARE	--	20	1	39				40	1	20	--	DOOR (E)
				41				42	1	20	--	SPARE
PANEL A2 (E)	--	100	3	43				44	2	60	N	TWO POST LIFT
				45				46				
				47				48				
SPARE	--	20	1	49				50	2	60	N	TWO POST LIFT
SIGNAGE (E)	--	20	1	51				52				
SIGNAGE (E)	--	20	1	53				54				
COMPUTER (E)	--	20	1	55				56	2	20		3 - TIRE CHANGER
SPARE (E)	--	20	1	57				58				
SPARE (E)	--	20	1	59				60	1	20	--	SPARE (E)
SPARE	--	20	1	61				62	1	20	--	SPARE (E)
ENTRANCE DOOR (E)	--	20	1	63				64	1	20	--	SPARE (E)
SPARE	--	20	1	65				66	1	20	--	SPARE (E)
A/C (E)	--	20	1	67				68	1	20	--	TELE SERVER (E)
SPARE	--	20	1	69				70	1	20	--	WALL REC (E)
TWO POST LIFT	N	60	2	71				72	1	20	--	SPARE
				73				74	1	20	--	SPARE
SPARE (E)	--	20	1	75				76	1	20	--	SPARE
SPARE (E)	--	30	2	77				78	1	20	--	SPARE (E)
				79				80	1	20	--	SPARE (E)
SPARE (E)	--	20	2	81				82	1	20	--	SPARE (E)
				83				84	1	20	--	SPARE (E)

Options:
G – GFCI type circuit breaker.
L – Locking handle type circuit breaker.
S – Shunt trip type circuit breaker.
N – Provide new circuit breaker
Notes:

LIGHTING PANEL SCHEDULE

Panel: EV2
Rating: 225 A
Mounting: SURFACE
Type: MCB W/FEED THRU LUGS AND GND.BAR
Integral SPD: NO
Voltage: 120/208
Phase: 3
Wire: 4
A.I.C. Rating: SERIES RATED WITH UPSTREAM OVERCURRENT PROTECTIVE DEVICE

Circuit Description	OPT	R	P	CKT	A	B	C	CKT	P	R	OPT	Circuit Description
EVSE	G	50	2	1				2	2	50	G	EVSE
				3				4				
EVSE	G	50	2	5				6	2	50	G	EVSE
				7				8				
EVSE	G	50	2	9				10	2	50	G	EVSE
				11				12				
SPACE	--	--	1	13				14	1	--	--	SPACE
SPACE	--	--	1	15				16	1	--	--	SPACE
SPACE	--	--	1	17				18	1	--	--	SPACE
SPACE	--	--	1	19				20	1	--	--	SPACE
SPACE	--	--	1	21				22	1	--	--	SPACE
SPACE	--	--	1	23				24	1	--	--	SPACE
SPACE	--	--	1	25				26	1	--	--	SPACE
SPACE	--	--	1	27				28	1	--	--	SPACE
SPACE	--	--	1	29				30	1	--	--	SPACE
SPACE	--	--	1	31				32	1	--	--	SPACE
SPACE	--	--	1	33				34	1	--	--	SPACE
SPACE	--	--	1	35				36	1	--	--	SPACE
SPACE	--	--	1	37				38	1	--	--	SPACE
SPACE	--	--	1	39				40	1	--	--	SPACE
SPACE	--	--	1	41				42	1	--	--	SPACE

Options:
G – GFCI type circuit breaker.
L – Locking handle type circuit breaker.
S – Shunt trip type circuit breaker.
Notes:

EXISTING LIGHTING PANEL SCHEDULE

Panel: L
Rating: 150 A
Mounting: SURFACE
Type: MCB W/GND. BAR
Integral SPD: YES
Voltage: 120/208
Phase: 3
Wire: 4
A.I.C. Rating: EXISTING

Circuit Description	OPT	R	P	CKT	A	B	C	CKT	P	R	OPT	Circuit Description
GARAGE DOOR		20	1	1				2	1	20		GARAGE DOOR
GARAGE DOOR		20	1	3				4	1	20	G,N	EWC
GARAGE DOOR		20	1	5				6	1	20	G,N	FRIDGE
BREAK ROOM REC		20	1	7				8	1	20		PRINTER
BREAK ROOM REC		20	1	9				10	1	20		REC - WORK 9
COMM REC (E)	--	20	1	11				12	1	20		REC - ADVISOR 7,8
REC - ADVISOR 5,6		20	1	13				14	1	20	--	RR, CORR REC (E)
REC - ADVISOR 3,4		20	1	15				16	1	20	--	EF (E)
FRIDGE	G,N	20	1	17				18	1	20		REC - LOBBY COUNTERTOP
REC - LOBBY COUNTERTOP		20	1	19				20	1	20		REC - CORRIDOR
REC - LOBBY COUNTERTOP		20	1	21				22	1	20		REC - SERVICE MGR
REC - LOBBY REC		20	1	23				24	1	20		RH
SIGNAGE		20	1	25				26	1	20	--	RTO-1,2 (E)
SIGNAGE		20	1	27				28	1	15		EF-4
EF-1	N	15	2	29				30	1	20		REC - ROOFTOP REC
				31				32	2	30	--	SIGNAGE (E)
GAS DETECTION PANEL		20	1	33				34				
SPARE	--	20	1	35				36	1	20	--	LCP (E)
SPARE	--	20	1	37				38	1	20	--	SPARE
SPARE (E)	--	20	1	39				40	1	20	--	SPARE
SPARE (E)	--	20	1	41				42	1	20	--	SPARE (E)
CU-1,BC-1 (E)	--	20	1	43				44	1	20	--	RELAY PANEL SPARE (E)
SPARE (E)	--	20	1	45				46	2	50	N	EVSE
SPARE (E)	--	20	1	47				48				
SPACE	--	--	1	49				50	1	--	--	SPACE
SPACE	--	--	1	51				52	1	--	--	SPACE
SPACE	--	--	1	53				54	1	--	--	SPACE
SPACE	--	--	1	55				56	1	--	--	SPACE
SPACE	--	--	1	57				58	1	--	--	SPACE
SPACE	--	--	1	59				60	1	--	--	SPACE

Options:
G – GFCI type circuit breaker.
L – Locking handle type circuit breaker.
S – Shunt trip type circuit breaker.
N – Provide new circuit breaker
Notes:

EXISTING LIGHTING PANEL SCHEDULE

Panel: A1
Rating: 200 A
Mounting: SURFACE
Type: MCB W/GND. BAR
Integral SPD: NO
Voltage: 120/208
Phase: 3
Wire: 4
A.I.C. Rating: EXISTING

Circuit Description	OPT	R	P	CKT	A	B	C	CKT	P	R	OPT	Circuit Description
REC - AIR DRYER		20	1	1				2				
FAN	L	20	1	3				4	3	100	N	COMPRESSOR
WORKBENCH CORD REELS	N,G	20	1	5				6				
UPSTAIRS NETWORK (E)	--	20	1	7				8	1	20		GARAGE DOOR
GARAGE DOOR		20	1	9				10	1	20		GARAGE DOOR
GARAGE DOOR		20	1	11				12	1	20		GARAGE DOOR
GARAGE DOOR		20	1	13				14				
WORKBENCH CORD REELS	N,G	20	1	15				16	3	30	--	SPARE
MOBILE LIFT CHARGERS	N,G	20	1	17				18				
MOBILE LIFT CHARGERS	N,G	20	1	19				20	1	20	--	PHOTOEYE (E)
REC - ELEC ROOM		20	1	21				22	1	20	--	SERVICE SHEDS (E)
CONF ROOM REC (E)	--	20	1	23				24	1	20	N,G	MOBILE LIFT CHARGERS
GUH-1	N	20	1	25				26	1	20	N,G	MOBILE LIFT CHARGERS
EF-5	N	15	1	27				28				
SPACE	--	--	1	29				30	2	20	N,G	208V RECEPTACLE
SPACE	--	--	1	31				32	2	20	N,G	208V RECEPTACLE
SPACE	--	--	1	33				34				
SPACE	--	--	1	35				36	1	--	--	SPACE
SPACE	--	--	1	37				38	1	--	--	SPACE
SPACE	--	--	1	39				40	2	15	N	HP-1/AC-1
SPACE	--	--	1	41				42				

Options:
G – GFCI type circuit breaker.
L – Locking handle type circuit breaker.
S – Shunt trip type circuit breaker.
N – Provide new circuit breaker
Notes:

EXISTING LIGHTING PANEL SCHEDULE

Panel: H
Rating: 225 A
Mounting: SURFACE
Type: MCB W/GND. BAR
Integral SPD: YES
Voltage: 480/277
Phase: 3
Wire: 4
A.I.C. Rating: EXISTING

Circuit Description	OPT	R	P	CKT	A	B	C	CKT	P	R	OPT	Circuit Description
IEWH-1	N,L	40	1	1				2	1	20		EWH-1
IEWH-2	N,L	40	1	3				4				
HVLS FANS	N	20	3	5				6	3	60	--	SPARE
				7				8				
SPARE	--	20	3	9				10	3	60	--	RTU (E) VIA VFD-RTU-1 (N)
				11				12				
PARKING LOT LTG (E)	--	20	2	13				14	3	30		
				15				16				
PARKING LOT LTG (E)	--	20	2	17				18	3	70	--	XFMR TL (E)
				19				20				
SPARE (E)	--	20	2	21				22	1	20	--	WOMENS RR HWH (E)
				23				24	1	20	--	MENS RR HWH (E)
SPARE (E)	--	20	2	25				26	1	20	--	FLOOR HEAT (E)
				27				28	1	--	--	GFPE
SPARE (E)	--	20	2	29				30	1	20	--	EWH (E)
				31				32	1	20	--	EWH (E)
GFPE	--	--	1	33				34	1	20		EXTERIOR LTG
SPARE (E)	--	20	1	35				36	1	20	--	SPARE (E)
SPARE (E)	--	20	1	37				38	1	20	--	SPARE (E)
SPARE (E)	--	20	1	39				40	1	20	--	SPARE (E)
SPARE (E)	--	20	1	41				42	1	20	--	SPARE (E)

Options:
G – GFCI type circuit breaker.
L – Locking handle type circuit breaker.
S – Shunt trip type circuit breaker.
N – Provide new circuit breaker
Notes:

EXISTING LIGHTING PANEL SCHEDULE

Panel: LDP2
Rating: 200 A
Mounting: SURFACE
Type: MLO W/GND. BAR
Integral SPD: NO
Voltage: 120/208
Phase: 3
Wire: 4
A.I.C. Rating: EXISTING

Circuit Description	OPT	R	P	CKT	A	B	C	CKT	P	R	OPT	Circuit Description
EX LOAD (E)	--	20	1	1				2				
EX LOAD (E)	--	20	1	3				4	3	100	--	MAIN BREAKER (E)
EX LOAD (E)	--	20	1	5				6				
EX LOAD (E)	--	20	1	7				8				
EX LOAD (E)	--	20	1	9				10	2	30	--	SPARE (E)
EX LOAD (E)	--	20	1	11				12	1	20	--	EX LOAD (E)
EX LOAD (E)	--	20	1	13				14	1	20	--	WASHER (E)
EX LOAD (E)	--	20	1	15				16	2	30	--	DRYER (E)
EX LOAD (E)	--	20	1	17				18				
EX LOAD (E)	--	20	1	19				20	2	20	--	EX LOAD (E)
SPARE (E)	--	50	2	21				22				
				23				24	1	20	--	EX LOAD (E)
EX LOAD (E)	--	20	1	25				26	1	20	--	EX LOAD (E)
EX LOAD (E)	--	20	1	27				28	1	20	--	EX LOAD (E)
EX LOAD (E)	--	20	1	29				30	1	20	--	EX LOAD (E)

Options:
G – GFCI type circuit breaker.
L – Locking handle type circuit breaker.
S – Shunt trip type circuit breaker.
N – Provide new circuit breaker
Notes:

EXISTING LIGHTING PANEL SCHEDULE

Panel: MDP-2
Rating: 225 A
Mounting: SURFACE
Type: MLO W/GND. BAR
Integral SPD: NO
Voltage: 480/277
Phase: 3
Wire: 4
A.I.C. Rating: EXISTING

Circuit Description	OPT	R	P	CKT	A	B	C	CKT	P	R	OPT	Circuit Description
				1				2	1	--	--	SPACE
HVLS FANS	N	20	3	3				4	1	--	--	SPACE
				5				6	1	--	--	SPACE
				7				8	1	--	--	SPACE
POLE LTG AND TIMECLOCK (E)	--	20	3	9				10				
				11				12	3	40	--	SPARE
				13				14				
				15				16				
XFMR FOR BODY SHOP PANEL (E)	--	40	3	17				18	3	20	--	POLE LTG (E)
				19				20				
				21				22				
PARTS XFMR (E) PANEL LDP2?	--	40	3	23				24	3	100	--	PANEL H-1 (E)
				25				26				
				27				28				
SPARE	--	70	3	29				30	3	90	--	SPARE
				31				32				

Options:
G – GFCI type circuit breaker.
L – Locking handle type circuit breaker.
S – Shunt trip type circuit breaker.
N – Provide new circuit breaker
Notes:

EXISTING LIGHTING PANEL SCHEDULE

Panel: A2
Rating: 100 A
Mounting: SURFACE
Type: MLO W/GND. BAR
Integral SPD: NO
Voltage: 120/208
Phase: 3
Wire: 4
A.I.C. Rating: EXISTING

Circuit Description	OPT	R	P	CKT	A	B	C	CKT	P	R	OPT	Circuit Description
SPACE	--	--	1	1				2	1	--	--	SPACE
SPACE	--	--	1	3				4	1	--	--	SPACE
SPACE	--	--	1	5				6	1	--	--	SPACE
WASHER (E)	--	30	2	7				8	1	50	--	PORSCHE (E)
				9				10	1	50	--	LIFT PLUG (E)
REC (E)	--	20	1	11				12	1	20	--	HEAT CABLE (E)
SPARE	--	20	1	13				14	1	20	--	RR OFFICES (E)
SPARE	--	20	1	15				16				
SPARE	--	20	1	17				18	2	60	--	EV CHARGER (E)
30A REC (E)	--	30	1	19				20	1	--	--	SPACE

Options:
G – GFCI type circuit breaker.
L – Locking handle type circuit breaker.
S – Shunt trip type circuit breaker.
N – Provide new circuit breaker
Notes:

EXISTING LIGHTING PANEL SCHEDULE

Panel: HC
Rating: 225 A
Mounting: SURFACE
Type: MLO W/GND. BAR
Integral SPD: NO
Voltage: 480/277
Phase: 3
Wire: 4
A.I.C. Rating: EXISTING

Circuit Description	OPT	R	P	CKT	A	B	C	CKT	P	R	OPT	Circuit Description
SERVICE BAY LTG		20	1	1				2				
SERVICE BAY LTG		20	1	3				4	3	20	--	EXHAUST FAN (E)
				5				6				
XFMR TA (E)	--	20	3	7				8	1	20		SERVICE BAY LTG
				9				10	1	20		EXTERIOR LTG
				11				12	3	30		
LTG CONTACTOR (E)	--	20	3	13				14	1	20	--	SPARE
				15				16	1	20	--	SPARE
SPARE	--	20	1	17				18	3	70	--	SPARE
SPARE	--	20	1	19				20	1	20	--	UPSTAIRS REC (E)
SPARE	--	20	1	21				22	1	30	--	SPARE
				23				24				
RTU (E)	--	20	3	25				26	3	60	--	RTU (E)
				27				28				

Options:
G – GFCI type circuit breaker.
L – Locking handle type circuit breaker.
S – Shunt trip type circuit breaker.
N – Provide new circuit breaker
Notes:

EXISTING DISTRIBUTION PANEL SCHEDULE

Panel: MDP-1
Type: MAIN FUSIBLE SWITCH W/GND. BAR
Integral SPD: NO
Rating: 800 A
Volts: 480/277
Phases: 3
Wires: 4
A.I.C. Rating: EXISTING
S.E. Rated: YES

CKT	NAMEPLATE DESIGNATION	RATING		Comments
1	SERVICE DRIVE XFMR (E)	100 A	3	
2	480V PANEL (E) MDP2?	200 A	3	
3	MAIN BACK BODY SHOP (E)	100 A	3	
4	SPARE	225 A	3	
5	480V PANEL FRONT SERVICE AREA (E)...	225 A	3	
6	HEATING AND COOLING (E)	60 A	3	
7	CAR EXHAUST FAN (E)	20 A	3	
8	SPARE	20 A	3	
9	SPARE	20 A	1	
10	SPARE	20 A	1	
11	SPARE	20 A	1	
12	SPARE	20 A	1	
13	POLE LTG (E)	20 A	3	
14	SPARE	20 A	1	
15	POLE LTG (E)	40 A	3	
16	SPARE	20 A	1	
17	SPARE	20 A	1	
18	STREET LTG PANEL (E)	125 A	3	
19				
20				

Notes:
1. THE CURRENT LIMITING PLUG IN THE CIRCUIT BREAKER OR THE BREAKER ITSELF MUST BE THE NEXT LOGICAL SIZE ABOVE THE SERVICE CONDUCTOR SIZE.
2. A PERMANENT "RED" ENGRAVED PHENOLIC PLATE MUST BE INSTALLED ON OR ABOVE THE MAIN CIRCUIT BREAKER WITH THE FOLLOWING INFORMATION:
   a. SERVICE SIZE - PER NEC.
   b. ALL PROGRAMMED BREAKER SETTINGS.
   c. "CAUTION - ANY CHANGES TO THESE SETTINGS COULD BE A POTENTIAL RISK TO LIFE AND PROPERTY".
3. PROVIDE AN ARC ENERGY REDUCING MAINTENANCE SWITCH FOR EACH CIRCUIT BREAKER FRAME SIZE 1200 AMPS AND LARGER.

EXISTING LIGHTING PANEL SCHEDULE

Panel: A2
Rating: 200 A
Mounting: SURFACE
Type: MCB W/GND. BAR
Integral SPD: NO
Voltage: 120/208
Phase: 3
Wire: 4
A.I.C. Rating: EXISTING

Circuit Description	OPT	R	P	CKT	A	B	C	CKT	P	R	OPT	Circuit Description
				1				2	1	--	--	SPACE
MAIN BREAKER (E)	--	20	3	3				4	1	20	--	SPACE
				5				6	1	20	--	SPACE
SPARE	--	20	1	7				8	1	15	--	SPARE
SPARE	--	20	1	9				10	1	15	--	SPARE
SPARE	--	20	1	11				12	1	20	--	SPARE
SPARE	--	20	1	13				14	1	20	--	SPARE
SPARE	--	20	1	15				16	1	20	--	SPARE
SPARE	--	20	1	17				18	1	20	--	SPARE
SPARE	--	20	1	19				20	1	20	--	SPARE
SPARE	--	20	1	21				22	1	20	--	SPARE
SPARE	--	20	1	23				24	1	20	--	SPARE
SPARE	--	20	1	25				26	1	20	--	SPARE
SPARE	--	20	1	27				28	1	20	--	SPARE
SPARE	--	20	1	29				30	1	20	--	SPARE

Options:
G – GFCI type circuit breaker.
L – Locking handle type circuit breaker.
S – Shunt trip type circuit breaker.
N – Provide new circuit breaker
Notes:

RELOCATED LIGHTING PANEL SCHEDULE

Panel: S3
Rating: 125 A
Mounting: SURFACE
Type: MLO W/GND. BAR
Integral SPD: NO
Voltage: 120/208
Phase: 1
Wire: 3
A.I.C. Rating: EXISTING

Circuit Description	OPT	R	P	CKT	A	B	C	CKT	P	R	OPT	Circuit Description
SPARE	--	20	1	1				2	1	20	--	SPARE
SPARE	--	20	1	3				4	1	20	--	SPARE
SPARE	--	20	1	5				6	2	20	--	SPARE
SPARE	--	20	1	7				8				

Options:
G – GFCI type circuit breaker.
L – Locking handle type circuit breaker.
S – Shunt trip type circuit breaker.
Notes:

RELOCATED LIGHTING PANEL SCHEDULE

Panel: S2
Rating: 100 A
Mounting: SURFACE
Type: MCB W/GND. BAR
Integral SPD: NO
Voltage: 120/208
Phase: 3
Wire: 4
A.I.C. Rating: EXISTING

Circuit Description	OPT	R	P	CKT	A	B	C	CKT	P	R	OPT	Circuit Description
WORKBENCH DROP CORDS	N,G	20	1	1				2	2	45	--	POWER WASH (E)
SPARE	--	40	2	3				4				
				5				6	1	20	N,G	WORKBENCH DROP CORDS
SPARE	--	30	2	7				8				
				9				10	3	20	--	TOWER FAN (E)
WORKBENCH DROP CORDS	N,G	20	1	11				12				
MOBILE LIFT CHARGERS	N,G	20	1	13				14				
MOBILE LIFT CHARGERS	N,G	20	1	15				16	3	20	--	SPARE
MOBILE LIFT CHARGERS	N,G	20	1	17				18				
MOBILE LIFT CHARGERS	N,G	20	1	19				20				
SPARE	--	20	1	21				22	3	20	--	SPARE
SPARE	--	20	1	23				24				
SPARE	--	20	1	25				26	1	20	--	SPARE
SPARE	--	20	1	27				28	1	20	--	SPARE
SPARE	--	20	1	29				30	1	20	--	SPARE

Options:
G – GFCI type circuit breaker.
L – Locking handle type circuit breaker.
S – Shunt trip type circuit breaker.
Notes:

LIGHTING PANEL SCHEDULE

Panel: EV1
Rating: 225 A
Mounting: SURFACE
Type: MCB W/FEED THRU LUGS AND GND.BAR
Integral SPD: NO
Voltage: 120/208
Phase: 3
Wire: 4
A.I.C. Rating: SERIES RATED WITH UPSTREAM OVERCURRENT PROTECTIVE DEVICE

Circuit Description	OPT	R	P	CKT	A	B	C	CKT	P	R	OPT	Circuit Description
EVSE	G	50	2	1				2	2	50	G	EVSE
				3				4				
EVSE	G	50	2	5				6	2	50	G	EVSE
				7				8				
EVSE	G	50	2	9				10	2	50	G	EVSE
				11				12				
SPACE	--	--	1	13				14	1	--	--	SPACE
SPACE	--	--	1	15				16	1	--	--	SPACE
SPACE	--	--	1	17				18	1	--	--	SPACE
SPACE	--	--	1	19				20	1	--	--	SPACE
SPACE	--	--	1	21				22	1	--	--	SPACE
SPACE	--	--	1	23				24	1	--	--	SPACE
SPACE	--	--	1	25				26	1	--	--	SPACE
SPACE	--	--	1	27				28	1	--	--	SPACE
SPACE	--	--	1	29				30	1	--	--	SPACE
SPACE	--	--	1	31				32	1	--	--	SPACE
SPACE	--	--	1	33				34	1	--	--	SPACE
SPACE	--	--	1	35				36	1	--	--	SPACE
SPACE	--	--	1	37				38	1	--	--	SPACE
SPACE	--	--	1	39				40	1	--	--	SPACE
SPACE	--	--	1	41				42	1	--	--	SPACE

Options:
G – GFCI type circuit breaker.
L – Locking handle type circuit breaker.
S – Shunt trip type circuit breaker.
Notes:

EXISTING LIGHTING PANEL SCHEDULE

Panel: HC3
Rating: 225 A
Mounting: SURFACE
Type: MLO W/GND. BAR
Integral SPD: NO
Voltage: 480/277
Phase: 3
Wire: 4
A.I.C. Rating: EXISTING

Circuit Description	OPT	R	P	CKT	A	B	C	CKT	P	R	OPT	Circuit Description
EX LTG LOAD (E)	--	20	1	1				2	1	20	--	EX LTG LOAD (E)
EX LTG LOAD (E)	--	20	1	3				4	1	20	--	EX LTG LOAD (E)
EX LTG LOAD (E)	--	20	1	5				6	1	20	--	EX LTG LOAD (E)
EX LTG LOAD (E)	--	20	1	7				8	1	20	-