ADDENDUM
NO. 2

July 23, 2020

Additions & Renovations to Lawrence North High School
7802 Hague Road
Indianapolis, IN 46256

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, the Specifications, and Drawings dated July 6, 2020, by Schmidt Associates. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Pages ADD 2-1 through ADD 2-3, Site Phasing Plan and attached Schmidt Associates Addendum No. 2, dated July 23, 2020 consisting of 35 pages and Drawing Sheets: MDR101, MR102, M-702, M-703, M-704, M-705, M-706 and ES102.

BID

The Bid on Tuesday August 4, 2020 at 2:00 PM will be a Virtual ZOOM Bid Opening.
Bids may be dropped off in the Lobby of the Administration Building.
The bids will be taken to the Board Room, opened and read live over ZOOM.

Join Zoom Meeting
https://zoom.us/j/91017051504?pwd=bFhwYkZ3QlhSbXdjZmRtdGZVUVhhQT09

VIRTUAL ONLINE BUILDING TOUR

A Virtual Online Building Tour is available For Reference Only at:

Website address: https://lnhs.iv.navvis.com/
Username: bidders
Password: schmidtppi2020

A. SPECIFICATION SECTION 01 12 00 MULTIPLE CONTRACT SUMMARY

1. Article 1.10 Labor and Materials – G

The Owner is requiring that all contractors' personnel and their onsite employees (trade employees) and subcontractors submit an expanded criminal history check through SafeVendor, a product of Safe Hiring Solutions. Please visit www.safevisitorsolutions.com/safevendor-app-agreement to create your account with SafeVendor. (Contractor is responsible for the cost of this background check). This should meet with the Owner's approval prior to the employee starting work on the project. All contractors' personnel and employees once cleared for work will be issued a project identification badge that must be worn at all times while on site. All contractors will be expected to provide the required name, address, picture state driver's license or picture state identification card information to The Skillman Corporation Site Manager no later than 24 hours in advance of the employee coming to work at the project site.

B. BID CATEGORY NO. 2 - GENERAL TRADES

1. Paragraph 3.03 Bid Categories

1. Add the following Clarifications:

14. Asphalt Paving 32 12 16 scope is limited to the work in Phase 1A and the R.O.W. work on Hague Road.

L. BID CATEGORY NO. 13 – CASEWORK

1. Add the following Clarifications:

3. Section 11 53 13 should read Laboratory Fume Hoods.

N. BID CATEGORY NO. 15 – FIRE PROTECTION

1. Add the following Clarifications:

4. Regarding Note #7 on the Fire Protection Drawings: The intent is to leave all existing mains and branches and only relocate where required for other trades. Allow $100,000 to remove/replace existing mains and branches made necessary after above-ceiling coordination with other trades.

O. BID CATEGORY NO. 16 - PLUMBING

1. Add the following Specification Section:

5. 22 11 19 – Domestic Water Piping Specialties

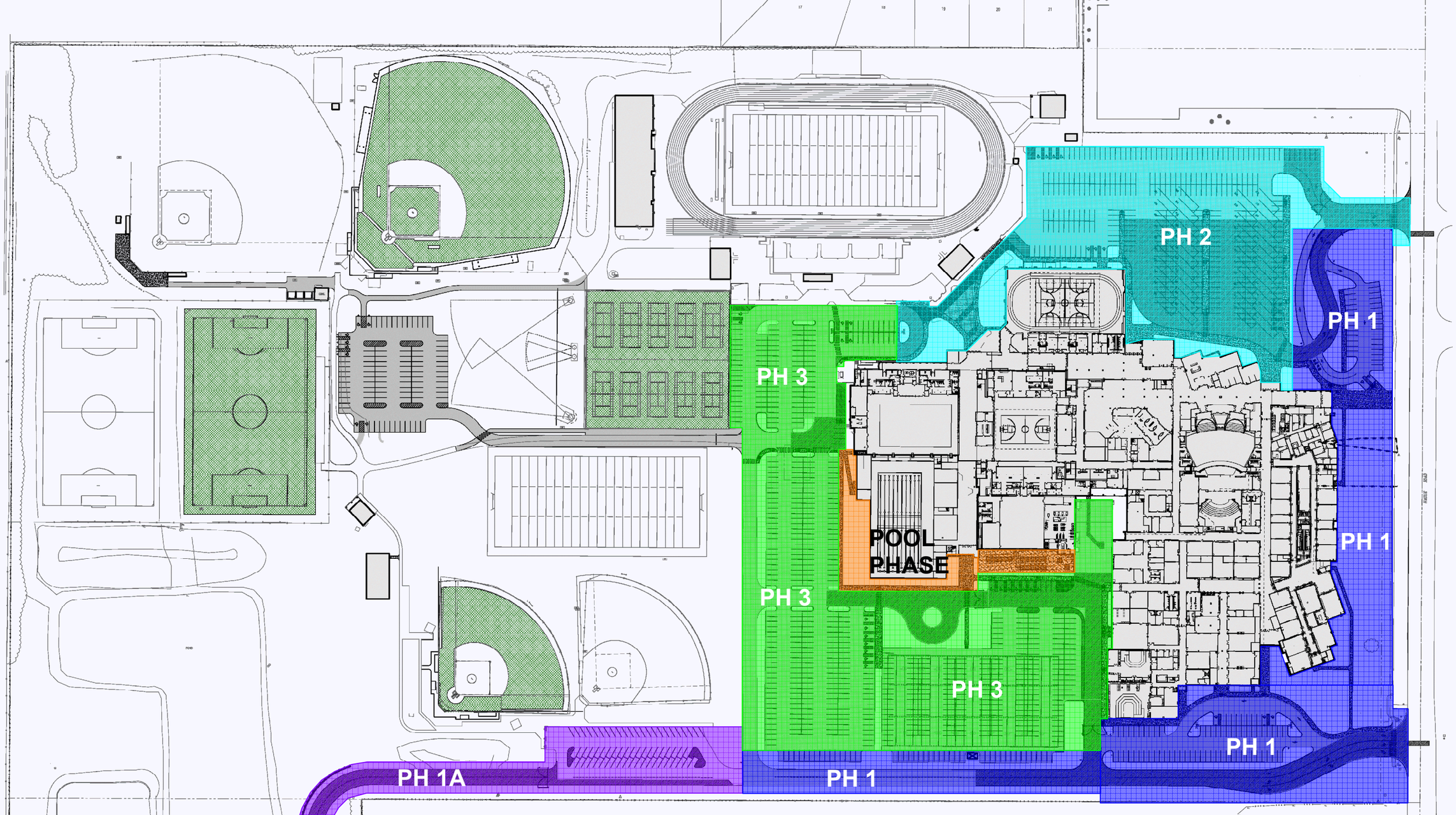
P. BID CATEGORY NO. 17 - MECHANICAL

1. Add the following Specification Section:

   7. 23 21 16 – Hydronic Piping Specialties

B. SPECIFICATION SECTION 01 32 00 SCHEDULES AND REPORTS

1. Insert the attached Site Phasing Plans.
2. The Domestic and Fire Service work shown on CU102 is to be completed by October 2, 2020.
3. Fire Riser Room #1 work and relocating/reconnecting piping out of the Phase 1 demolition area is to be completed by October 2, 2020.



SITE CONSTRUCTION PHASING PLAN

PHASE	COMPLETION
1A	JULY, 2021
1	JULY, 2022
POOL	NOV, 2022
2	JULY, 2023
3	NOV, 2023

LAWRENCE NORTH HIGH SCHOOL

ADDENDUM NO. 2
JULY 23, 2020

PREPARED BY SCHMIDT ASSOCIATES FOR:
LAWRENCE NORTH HIGH SCHOOL RENOVATION
LAWRENCE TOWNSHIP, M.S.D. OF

This Addendum consists of 35 Addendum pages and 8 attachment pages totaling 43 pages.

Acknowledge receipt of this Addendum by inserting its number on the Bid Form. Failure to do so may subject the Bid to disqualification. This Addendum is part of the Contract Documents.

Bidder is encouraged to verify with reprographer of record all Addenda issued (do not rely exclusively on third party plan room services).

PART 1 - CHANGES TO PRIOR ADDENDA (NOT APPLICABLE)

PART 2 - CHANGES TO THE PROJECT MANUAL

Modifications described herein shall be incorporated in the Project Manual. All other Work shall remain unchanged.

2.1 DIVISION 08 – OPENINGS

A. **Section 083473 "SOUND CONTROL DOOR ASSEMBLIES"**

1. ADD Subparagraph 2.1 A. 6. as follows:

"6. AMBICO Limited."

2.2 DIVISION 09 – FINISHES

A. **Section 099600.99 "HIGH PERFORMANCE COATINGS"**

1. INSERT Section 2.5 as follows**:**

"2.5 COATING SYSTEMS FOR INTERIOR CONCRETE MASONRY UNITS (CMU)

A. Concrete Masonry Units:
   1. System Type: Cementitious Acrylic/Hydrophobic Acrylic Polymer
   2. Surface Preparation: Allow CMU to cure for 14 days. Level protrusions and mortar splatter.
   3. Prime/Fill: Tnemec Series 130 applied at 60 to 80 square feet to totally fill porosity of CMU to create smooth surface.
   4. Prime/Fill: PPG Paints 16-90 Pitt-Glaze applied at 60 to 80 square feet to totally fill porosity of CMU to create smooth surface.

5. Prime/Fill: Sherwin-Williams Pro Industrial Heavy Duty Block Filler, B42W150 Series applied at 60 to 80 square feet to totally fill porosity of CMU to create smooth surface.
6. Intermediate Coat: Tnemec Series 1029 applied at DFT 3.0 to 4.0 mils.
7. Intermediate Coat: PPG Paints 90-1110 Pitt-Tech Plus applied at DFT 3.0 to 4.0 mils.
8. Intermediate Coat: Sherwin-Williams Pro Industrial Pre-Catalyzed Waterbased Epoxy, K45 Series applied at DFT 1.4 mils.
9. Finish Coat: Tnemec Series 1029 applied at DFT 3.0 to 4.0 mils.
10. Finish Coat: PPG Paints 90-1110 Pitt-Tech Plus applied at DFT 3.0 to 4.0 mils.
11. Finish Coat: Sherwin-Williams Pro Industrial Pre-Catalyzed Waterbased Epoxy, K45 Series (eggshell) applied at DFT 1.4 mils.

B. Showers (CMU):

1. Surface Preparation: Allow substrate to cure for 14 days. Level protrusions.
2. Prime/Fill: Tnemec Series 130 applied at 60 to 80 square feet to totally fill porosity of CMU to create smooth finish.
3. Prime/Fill: PPG Paints 95-217 Cementitious Waterproofing Block Filler applied at 60 to 80 square feet to totally fill porosity of CMU to create smooth finish.
4. Prime/Fill: Sherwin-Williams Cement Plex 875 applied at 60 to 80 square feet to totally fill porosity of CMU to create smooth finish.
5. Intermediate Coat: Tnemec Series 280 applied at DFT 4.0 to 8.0 mils.
6. Intermediate Coat: PPG Paints Amerlock 2 applied at DFT 4.0 to 8.0 mils.
7. Intermediate Coat: Sherwin-Williams ProIndustrial HiPerformance Epoxy applied at DFT 4.0 to 8.0 mils.
8. Finish Coat: Tnemec Series 297 applied at DFT 4.0 to 8.0 mils.
9. Finish Coat: PPG Paints Amerlock 2 applied at DFT 4.0 to 8.0 mils.
10. Finish Coat: Sherwin-Williams ProIndustrial HiPerformance Epoxy applied at DFT 4.0 to 8.0 mils"

2. INSERT Section 2.6 as follows:

"2.6 CERAMIC GLAZED WALL TILE

A. Existing Ceramic Glazed Tile:

1. PPG Paints 17-921 Seal-Grip Universal Primer applied at DFT 1.6 mils.
2. Sherwin-Williams: Extreme Bond Primer at DFT 2.2 mils."
3. Finish: PPG Paints 98-1 Aquapon WB Epoxy applied at DFT 2.0 to 3.0 mils.
4. Finish: Sherwin Williams: Pro Industrial Pre-Catalzyed Waterbased Epoxy, K45 Series (eggshell), at DFT 1.4 mils."

3. INSERT Section 2.7 as follows:

"2.7 COATING SYSTES FOR GYPSUM WALL BOARD WALLS

A. Drywall Walls:

1. Surface Preparation: Clean free of dust and soiling.
2. Primer: Tnemec Series 151 applied at DFT 1.0 to 1.5 mils.
3. Primer: PPG Paints 17-921 Seal-Grip applied at DFT 1.0 to 1.5 mils.

4. Primer: Sherwin-Williams ProMar 200 Zero VOC Latex Primer, B28W2600 series applied at DFT 1.0 to 1.5 mils.
5. Intermediate Coat: Tnemec Series 1029 applied at DFT 3.0 to 4.0 mils.
6. Intermediate Coat: PPG Paints 90-1110 Pitt-Tech Plus applied at DFT 3.0 to 4.0 mils.
7. Intermediate Coat: Sherwin-Williams Pro Industrial Pre-Catalzyed Waterbased Epoxy, K45 series, applied at 1.4 mils.
8. Finish Coat: Tnemec Series 1029 applied at DFT 3.0 to 4.0 mils.
9. Finish Coat: PPG Paints 90-1110 Pitt-Tech Plus applied at DFT 3.0 to 4.0 mils.
10. Finish Coat: Sherwin-Williams Pro Industrial Pre-Catalyzed Waterbased Epoxy, K45 Series, applied at 1.4 mils."

4. INSERT Section 3.5 as follows:

"3.5 SURFACE PREPARATION OF CERAMIC GLAZED WALL TILE

a. Clean in accordance with SSPC - SP 1
b. Lightly sand with 100 grit sandpaper and mechanically grind to remove glazed and roughen surface.
c. Remove dust and wipe clean prior to applying coating."

2.3 DIVISION 11 – EQUIPMENT

A. Section 116623 "GYMNASIUM EQUIPMENT"

1. ADD Paragraph 2.2 G. as follows:

"G. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Draper Inc.
2. Institutional Products Inc.
3. Performance Sports Systems.
4. Porter Athletic Equipment Company.
5. AALCO Manufacturing/Sportscon LLC."

2. ADD Subparagraph 2.3 A. 5. as follows:

"5. AALCO Manufacturing/Sportscon LLC."

B. Section 116653 "GYMNASIUM DIVIDERS"

1. ADD Subparagraph 2.2 A. 3. as follows:

"3. AALCO Manufacturing/Sportscon LLC."

2.4 DIVISION 23 - HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)

A. Section 233300 "AIR DUCT ACCESSORIES"

1. ADD NCA as an acceptable manufacturer to bid Manual Volume Dampers & Low Leakage Steel Manual Dampers.

2. ADD Pottorff & NCA as an acceptable manufacturer to bid Smoke Dampers.

3. ADD NCA as an acceptable manufacture to bid Combination Fire & Smoke Dampers.

4. ADD Dynosonic as an acceptable manufacturer to bid Duct Silencers.

B. **SECTION 233423 "HVAC POWER VENTILATORS"**

1. ADD Skyblade as an acceptable manufacturer to bid Ceiling Mounted Ventilators & High Volume Low Speed Ceiling Fans

C. **SECTION 235100 "BREACHINGS, CHIMNEYS AND STACKS"**

1. ADD Duravent as an acceptable manufacturer to bid Gas Vents.

PART 3 - CHANGES TO THE DRAWINGS

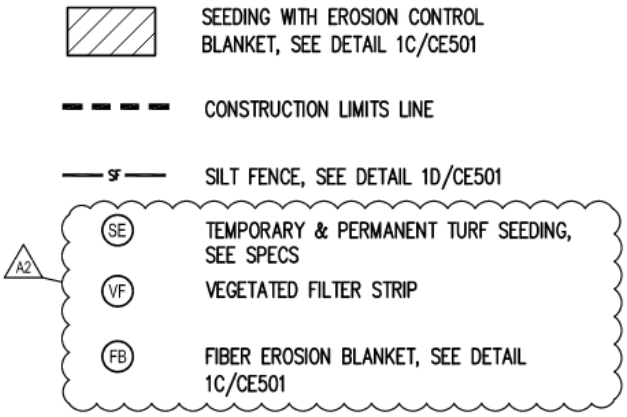
Modifications described herein shall be incorporated in the Drawings. All other Work shall remain un-changed.

3.1 C-SERIES DRAWINGS

A. **Drawing Numbers CE101-CE104, CE106**

1. MODIFY Drawings as follows:

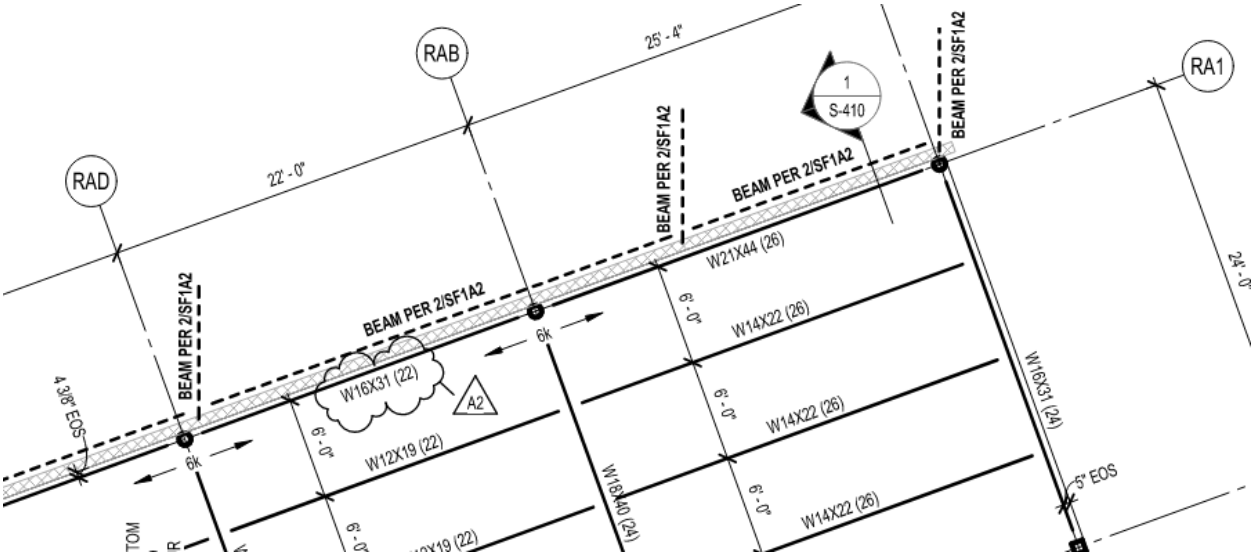
Revise EROSION CONTROL LEGEND to add keynote symbols as indicated below:



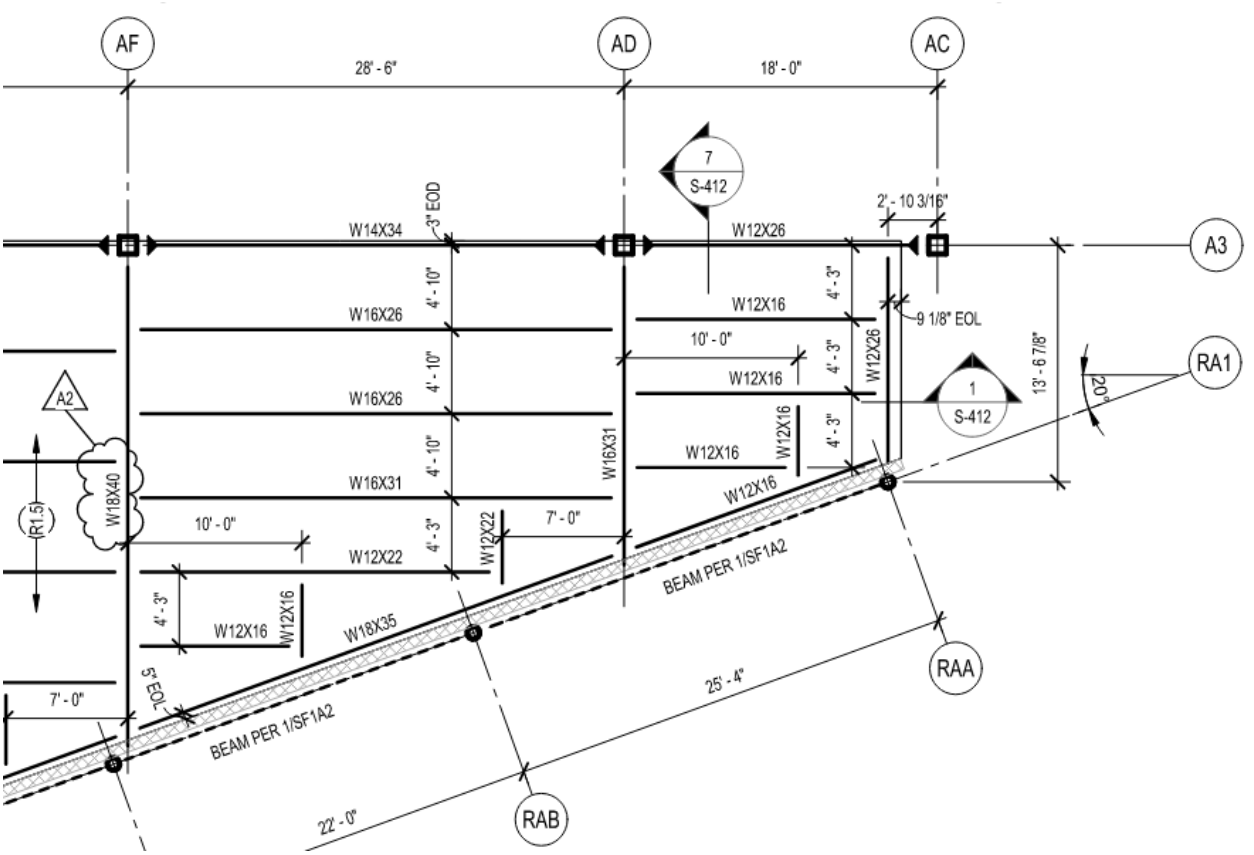
3.2 S-SERIES DRAWINGS

A. **Drawing Number SF1A2**

1. In 1/SF1A2, change the size of the beam between columns RAB-RA1 and RAD-RA1 to W16x31, as shown below:



2. In 2/SF1A2, change the size of the beam south of AF-A3 to W18x40, as shown below:



3.3 A-SERIES DRAWINGS

A. **Architectural Drawings**

1. DELETE all References/Notes as follows:

   "105126.99 – Plastic Lockers."

3.4 I-SERIES DRAWINGS

A. **Drawing Numbers IP-SHEETS**

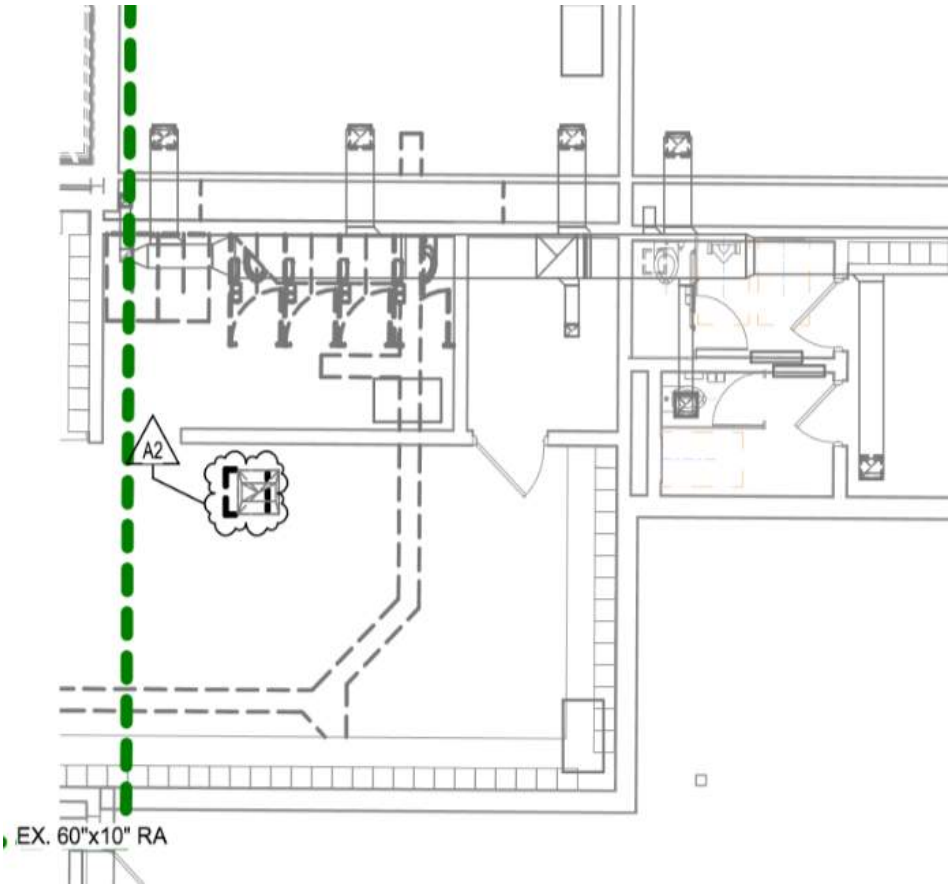
1. INSERT Note F2 as follows:

   "09 66 23 - PROVIDE SCHLUTER EDGE TRIM RENO T, ALUMINUM TRANSITION. SLOPE ADJACENT FLOOR FINISH TO MATCH HEIGHT OF EXISTING TERRAZZO TO ALLOW FOR SMOOTH TRANSITION."

3.5 M-SERIES DRAWINGS

A. **Drawing Number MDH1E1**

1. Delete roof mounted exhaust fan as shown below:

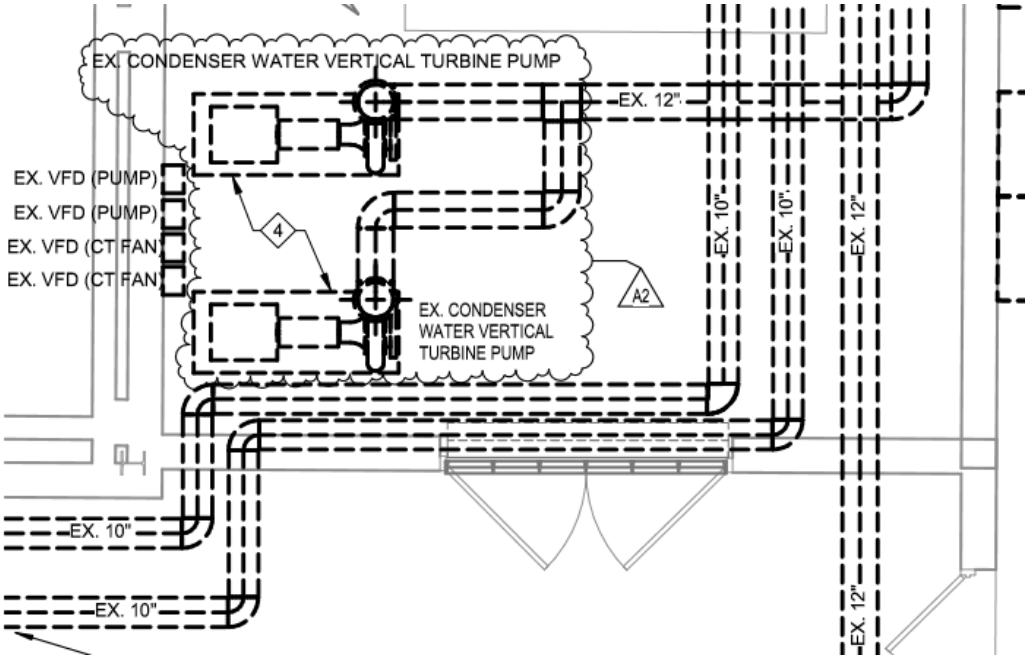


B. **Drawing Number MDR101**

1. Replace in its entirety per the attached.

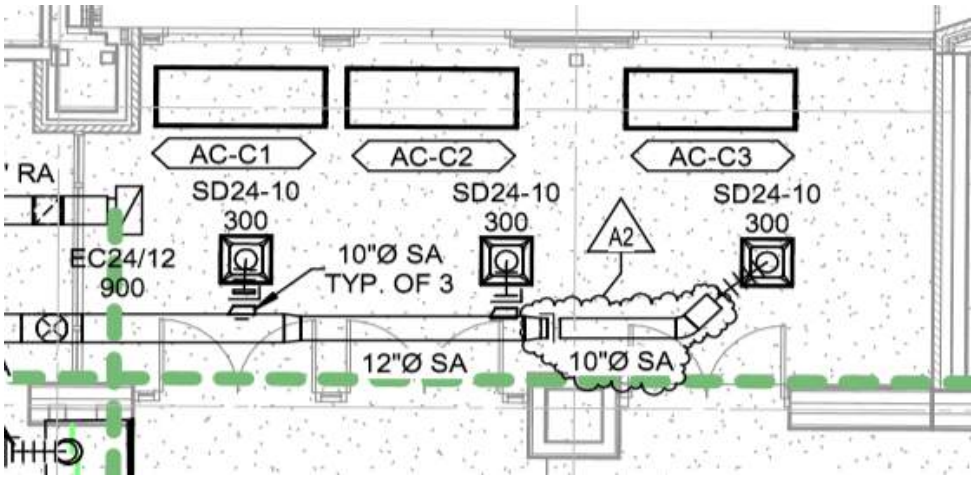
C. **Drawing Number MD401**

1. Delete vertical turbine pumps as shown below:



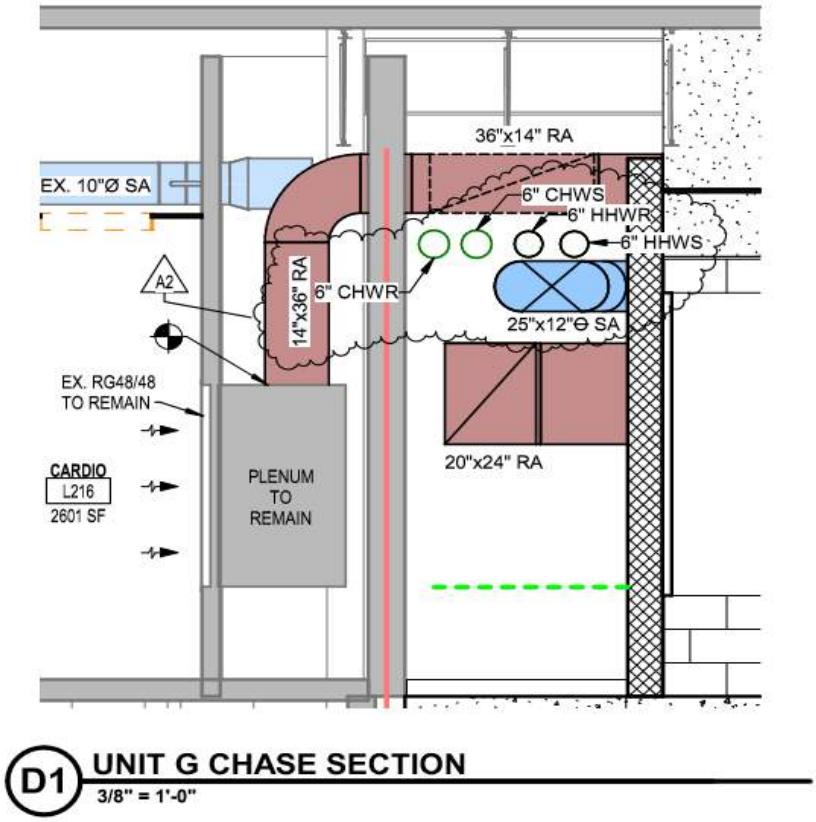
D. **Drawing Numbers MH1AB & MH1C1**

1. Revise duct size as shown below:



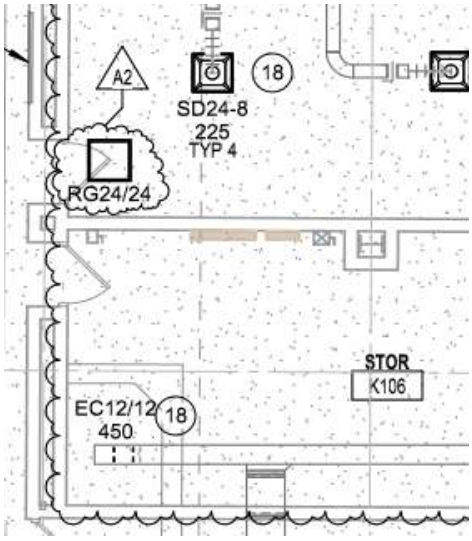
E. **Drawing Number MH1G2**

1. See revised Unit G Chase Section as shown below:



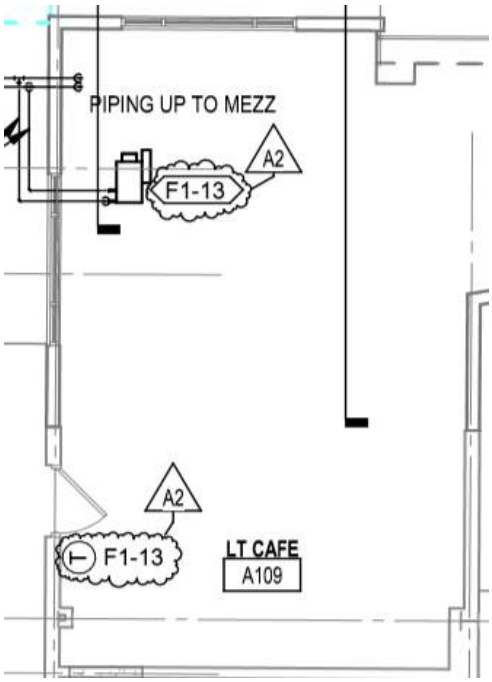
F. **Drawing Number MH1H1**

1. See return air grille information as shown below:



G. **Drawing Number MP1D1**

1. Provide VAV box tag & Thermostat as shown below:

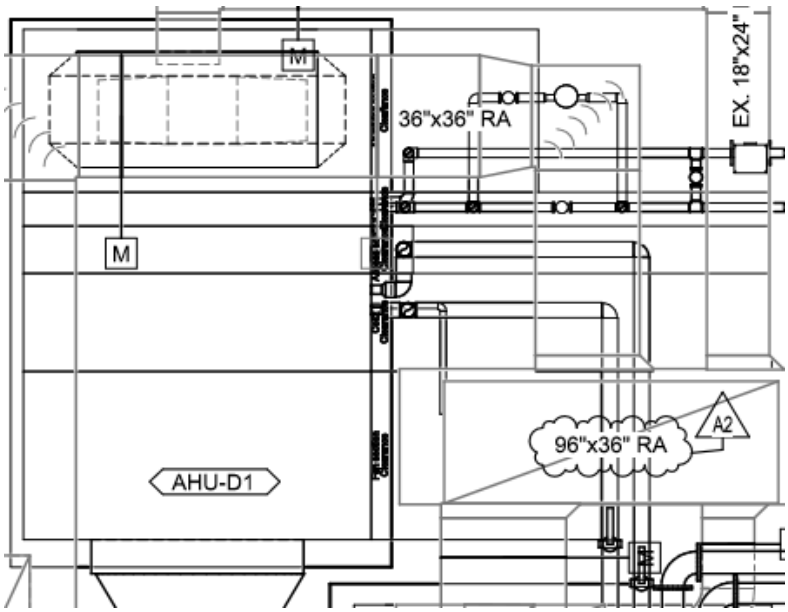


H. **Drawing Number MR102**

1. Replace in its entirety per the attached.

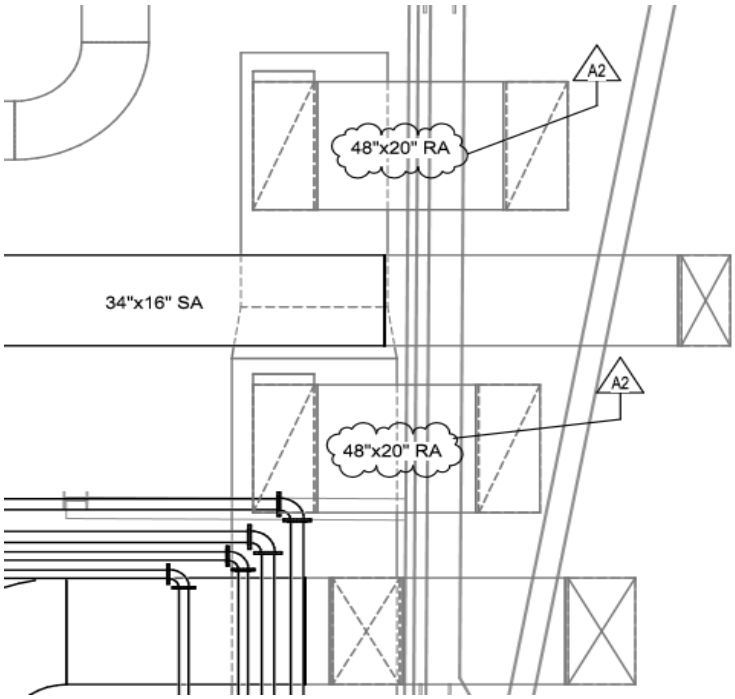
I. **Drawing Number M-404**

1. Provide duct size as shown below:



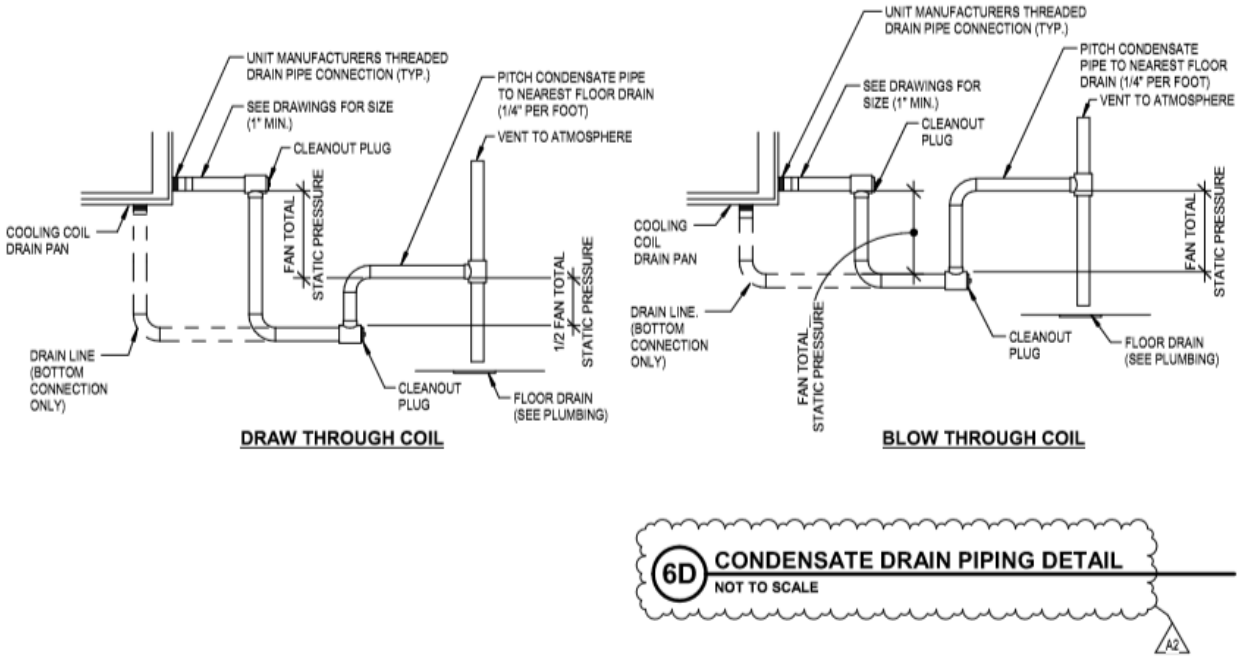
J. **Drawing Number M-404**

1. Provide duct size as shown below:



K. **Drawing Number M-501**

1. Provide Condensate Drain Piping Detail 6D/M-501 as shown below:



L. **Drawing Number M-507**

1. Delete return air fan section for 2C/M-507 AHU-D4 Detail.

M. **Drawing Number M-507**

1. Delete return air fan section for 5A/M-507 AHU-D3 Detail.

N. **Drawing Number M-508**

1. Delete return air fan section for 5C/M-508 AHU-E6 Detail.

O. **Drawing Number M-508**

1. Delete return air fan section for 2C/M-508 AHU-E5 Detail.

P. **Drawing Number M-508**

1. Delete return air fan section for 5A/M-508 AHU-E3 Detail.

Q. **Drawing Number M-510**

1. Delete return air fan section for 5C/M-510 AHU-F2 Detail.

R. **Drawing Number M-510**

1. Delete return air fan section for 5A/M-510 AHU-E7 Detail.

S. **Drawing Number M-510**

1. Delete return air fan section for 2A/M-510 AHU-E4 Detail.

T. **Drawing Number M-511**

1. Delete return air fan section for 5C/M-511 AHU-G1 Detail.

U. **Drawing Number M-511**

1. Delete return air fan section for 2C/M-511 AHU-G2 Detail.

V. **Drawing Number M-511**

1. Delete return air fan section for 2A/M-511 AHU-F3 Detail.

W. **Drawing Number M-601**

1. Replace return air fan data & return fan sound power information for AHU SCHEDULE as shown below:

A2

RETURN FAN DATA						RETURN FAN SOUND POWER (OUTLET)							
AIRFLOW (CFM)	ESP (IN-WG)	TSP (IN-WG)	RPM	MOTOR BREAK HP	MOTOR HP	OCTAVE BAND 1	2	3	4	5	6	7	8
10,650	0.5	1.33	1575	4.92	2 @ 3	64	72	79	74	70	69	61	51
11,400	0.75	1.70	1716	6.4	2 @ 5	66	73	83	76	72	72	65	54
5,200	0.5	0.80	2581	2.61	2 @ 3	68	70	73	86	70	73	72	63
13,800	0.5	1.21	1563	5.95	2 @ 3	68	72	77	73	72	72	65	55
12,225	0.5	1.05	1690	5.91	2 @ 3	73	79	90	77	70	74	68	59
9,000	0.5	1.09	1598	4.05	2 @ 3	59	70	77	71	69	71	63	52
2,000	0.5	0.63	2013	0.59	1	63	67	65	67	60	64	65	55
17,175	0.5	1.24	1568	7.57	2 @ 5	75	78	83	80	77	75	69	58
10,100	0.5	1.25	1503	4.29	2 @ 3	64	72	78	73	69	69	60	51
7,300	0.5	1.01	1987	2.91	2 @ 1.5	75	86	85	80	77	75	69	58

X. **Drawing Number M-601**

1. Replace return fan electrical data for AHU SCHEDULE as shown below:

A2

EDULE

RETURN FAN ELECTRICAL DATA						
P VOLTS	PH	FREQ	FLA	MCA	MOCP	UNIT CONTROLS
480	3	60	9.60	10.80	15	BY T.C.C.
480	3	60	16.40	18.45	25	BY T.C.C.
480	3	60	6.80	7.65	15	BY T.C.C.
480	3	60	4.60	5.75	15	BY T.C.C.
480	3	60	4.60	5.75	15	BY T.C.C.
480	3	60	9.60	10.80	15	BY T.C.C.
480	3	60	1.50	1.88	15	BY T.C.C.
480	3	60	9.40	11.75	20	BY T.C.C.
480	3	60	7.30	9.13	15	BY T.C.C.
480	3	60	4.60	5.75	15	BY T.C.C.
480	3	60	6.80	7.65	15	BY T.C.C.

A1

Y. **Drawing Number M-601**

1. Replace Air Handling Unit Schedule Notes as shown below:

A2

AIR HANDLING UNIT SCHEDULE NOTES:

1. SEE DETAIL 6D/M-502 FOR CONDENSATE TAP INSULATION. COORDINATE WITH AHU MANUFACTURER FOR CORRECT TRAP DEPTH.
2. COORDINATE POWER REQUIREMENTS WITH E.C.
3. COORDINATE UNIT LOCATION WITH STRUCTURAL STEEL. COORDINATE SUPPLY AND RETURN DUCT UNIT CONNECTIONS WITH MECHANICAL ROOM PLANS.
4. UNIT TO BE PROVIDED WITH NON-FUSED FACTORY INSTALLED DISCONNECTS FOR BOTH SUPPLY AND RETURN FANS. DISCONNECTS TO BE PROVIDED WITH INTERLOCK CONTACTS FOR SAFETY INTERLOCK. COORDINATE POWER REQUIREMENTS WITH E.C.
5. BOTH SUPPLY AND RETURN/RELIEF FANS SHALL BE SUPPLIED WITH DIRECT DRIVE MOTORS, UNIT MOUNTED FAN INLET AIR FLOW STATIONS WITH 24V DIFFERENTIAL PRESSURE TRANSDUCER BY MANUFACTURER. SEE M-700 DRAWINGS FOR MORE INFORMATION ON SPECIFIC AHUS WITH AIR FLOW STATIONS. VFD SUPPLIED BY TCC, INSTALLED BY E.C.
6. ALL DAMPERS BY UNIT MANUFACTURER.
7. ALL MOTORS ARE 480V/3PH.
8. SEE AHU COMPONENT DIAGRAMS ON M-500 SERIES DRAWINGS.
9. PROVIDE OUTDOOR AIR FLOW STATION IN UNIT. BASIS OF DESIGN IS TRAQ AIR FLOW MONITORING.

A2

Z. **Drawing Number M-601**

1. Replace reheat data for Air Handling Unit Schedule as shown below:

A2

REHEAT DATA										
CAPACITY (MBH)	FLOW (GPM)	EDB (°F)	LDB (°F)	EWT (°F)	LWT (°F)	WPD (FT-WG)	FACE VELOCITY (FPM)	APD (IN-WG)	ROWS	FINS PER IN
462	46.5	55	95	160	140	6.26	442	0.097	1	10.9
1,240.67	124.5	55	95	160	140	5.19	506	0.124	2	6.8
512.43	51.5	55	90	160	140	5.35	471	0.095	1	9.9
390.42	39	55	95	160	140	3.57	454	0.109	1	11.5
86.76	9	55	95	160	140	0.52	500	0.134	2	7.5
358.75	36	55	95	160	140	1.65	551	0.155	1	7.4
541.71	54.5	55	85	160	140	5.8	510	0.092	1	9.5
541.71	54.5	55	85	160	140	5.8	510	0.92	1	9.5
553.1	55.5	55	85	160	140	4.83	507	0.096	1	9.6
422.95	42.5	55	85	160	140	7.91	453	0.073	1	8.3

AA. **Drawing Number M-601**

1. Replace Hydronic Fan Coil Unit Schedule FCU-G1 in its entirety with the following:

   "FCU-G1: Manufacturer: IEC, Model: HPY10B7, Location #: L216A, Location Name: Mech, Dimension: (L) 30" (W) 40" (H) 16 ½", CFM: 990, ESP (IN-WG): 0.20, Motor Speed: High, Volts: 208, Phase: 1, Motor Break HP: 0.22, Motor FLA: 4, Motor HP: 0.5, Total Cooling (BTUH): 38,387, Sensible Cooling (BTUH): 26,387, Cooling Rows: 6, Cooling GPM: 7.5, Cooling EWT (F):45, Cooling LWT (F): 55, Cooling EDB (F): 80, Cooling EWB (F): 67, Cooling LDB (F): 59.7, Cooling LWB (F): 54.1, Cooling Coil WPD (FT): 10.4, Reheat Total Heating (BTUH): 31,809, Reheat Rows: 1, Reheat GPM: 2.5, Reheat EWT (F): 160, Reheat LWT (F): 130, Reheat EDB (F): 65, Reheat LDB (F):95.3, Reheat Heating Coil WPD (Ft.): 8.4, Notes: 1-11."

2. Replace Hydronic Cabinet Unit Heater Schedule in its entirety with the following:

   "HCUH-C1: Manufacturer: Vulcan, Model: VCUH-04, Enclosure Model: RC, Room Served #: CV120, Room Name: Vest C, Heating Capacity (BTUH): 32,300, Heating EWT (F): 160, Heating LWT (F): 130, Heating Flow (GPM): 5, Heating EAT (F): 60, Heating LAT (F): 129, Airflow (CFM): 430, ESP (IN-WG): 0.25, Fan Type: FC Centrifugal, Drive: Direct, RPM: 1050, HP: 0.1, Speeds: 2, Volts: 120, Phase: 1, MCA (A): 1.4, Notes: 1-2

   HCUH-C2: Manufacturer: Vulcan, Model: VCUH-04, Enclosure Model: RC, Room Served #: CV120, Room Name: Vest C, Heating Capacity (BTUH): 32,300, Heating EWT (F): 160, Heating LWT (F): 130, Heating Flow (GPM): 5, Heating EAT (F): 60, Heating LAT (F): 129, Airflow (CFM): 430, ESP (IN-WG): 0.25, Fan Type: FC Centrifugal, Drive: Direct, RPM: 1050, HP: 0.1, Speeds: 2, Volts: 120, Phase: 1, MCA (A): 1.4, Notes: 1-2

   HCUH-E1: Manufacturer: Vulcan, Model: VCUH-04, Enclosure Model: RC, Room Served #: EV109, Room Name: Vest E, Heating Capacity (BTUH): 32,300, Heating EWT (F): 160, Heating LWT (F): 130, Heating Flow (GPM): 5, Heating EAT (F): 60, Heating LAT (F): 129, Airflow (CFM): 430, ESP (IN-WG): 0.25, Fan Type: FC Centrifugal, Drive: Direct, RPM: 1050, HP: 0.1, Speeds: 2, Volts: 120, Phase: 1, MCA (A): 1.4, Notes: 1-2

   HCUH-E2: Manufacturer: Vulcan, Model: VCUH-04, Enclosure Model: RC, Room Served #: GV113, Room Name: Vest C, Heating Capacity (BTUH): 32,300, Heating EWT (F): 160, Heating LWT (F): 130, Heating Flow (GPM): 5, Heating EAT (F): 60, Heating LAT (F): 129, Airflow (CFM): 430, ESP (IN-WG): 0.25, Fan Type: FC Centrifugal, Drive: Direct, RPM: 1050, HP: 0.1, Speeds: 2, Volts: 120, Phase: 1, MCA (A): 1.4, Notes: 1-2"

BB. **Drawing Number M-602**

1. Replace Pump Schedule Notes in their entirety with the following:

PUMP SCHEDULE NOTES:
1. INLINE PUMP DETAIL 2E/M-501.
2. AHU COIL PUMP DETAILS 1B/M-504 AND 1D-M-504.
3. BASE MOUNTED PUMP DETAIL 5A/M-504.

A2

2. Exhaust Fan Schedule: Change Voltage & Phase for EF-F13 to 120/1

3. Exhaust Fan Schedule Notes: All exhaust fans to have notes 1 through 8.

4. Exhaust Fan Schedule: Replace EF-F14 in its entirety with the following:

   "EF-F14: Manufacturer: Loren Cook, Model: 90C15DH, Serves: Custodian, Weight (LBS): 50, Location: Roof, Fan Type: Downflow, Drive Type: Direct, Exhaust Airflow (CFM): 300, ESP (IN-WG): 0.3, RPM: 1,550, Sones: 3.8, DBA: 45, HP: 0.25, BHP: 0.15, Volts (V): 120, Phase: 1, Freq (HZ): 60, Disconnect Provider: Manufacturer, Unit Control: BAS, Notes: 1-8"

5. Hydronic Vertical Unit Ventilator Schedule: Replace and add the following:

   "VUV-C1: Volts: 208, Cooling EDB (F): 80.5, Cooling EWB (F): 66.5, Heating EDB (F): 48, Notes: 1-9"

6. Replace Hydronic Vertical Unit Ventilator Schedule Notes as shown below:

A2

HYDRONIC VERTICAL UNIT VENTILATOR SCHEDULE NOTES:
1. SUPPLY ALL UNITS WITH DISCONNECT SERVICE SWITCHES WITH LOCKOUT TABS PROVIDED BY MANUFACTURER. REFER TO SPECIFICATION 238223.98 FOR TCC FURNISHED/FACTORY INSTALLED CONTROLS.
2. ALL UNITS SUPPLIED WITH MERV-8 FILTER.
3. UNIT HAS DUCTED SUPPLY AIR CONNECTION WITH STAMPED RETURN GRILLE LOCATION ON BOTTOM SIDE OF UNIT.
4. PROVIDE WALL RECESSED UNITS WITH TRIM FRAME AND FRONT FACING HINGED-ACCESS DOORS. ALL UNITS ARE TO HAVE FACTORY PAINTED COLOR. PROVIDE FACTORY COLOR SAMPLE TO ARCHITECTS DURING SHOP DRAWING PHASE PRIOR TO ORDERING OF EQUIPMENT.
5. PROVIDE ECM MONITOR.
6. ALL ACCESS DOORS SHALL HAVE TAMPERPROOF ON UNIT CABINETS, EXTENDED END POCKETS, AND WALL PANELS WITH SECURITY SCREWS/LOCKS TO LIMIT ACCESS.
7. PROVIDE FLAT BLACK CLOSED CELL INSULATION IN UNIT.
8. SUPPLY AIR DUCTWORK SERVING EACH VERTICAL UNIT VENTILATOR TO BE INTERNALLY INSULATED TO DETER NOISE TRANSFER. SIZE SHOWN ON PLANS INDICATES ACTUAL FREE AREA. SEE SPECIFICATION SECTION FOR ADDITIONAL INSULATION REQUIREMENTS.
9. SEE DETAILS 4E/M-501, 3B/M-501, 3D/M-503, AND 5A/M-505.

7. Duct Silencer Schedule: Contract documents show duplicates of SA-F2-1 & SA-F2-2. Delete one of the duplicates.

8. Plate & Frame Heat Exchanger Schedule add notes as follow:

   HX-1, HX-2 & HX-3: Add Notes 1-4

A2

PLATE & FRAME HEAT EXCHANGER SCHEDULE NOTES:

1. SEE DETAIL 4F/M-501 FOR INSTALLATION DETAIL.
2. CHILLER SYSTEM SIDE CONTAINS 30% PROPYLENE GLYCOL. BUILDING CHILLED WATER SYSTEM SIDE CONTAINS WATER.
3. COORDINATE FUTURE SERVICE CLEARANCE REQUIREMENTS WITH LOCATION OF UNIT AND HOUSEKEEPING PAD.
4. INSTALL PLATE AND FRAME IN STRICT ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS. 150 PSIG RATED.

9. Expansion Tank Schedule Notes revise as follows:

EXPANSION TANK SCHEDULE NOTES:

1. BLADDER TYPE EXPANSION TANK.
2. SEE DETAIL 6B/M-503.
3. EXPANSION TANKS TO BE CHARGED AT 12 PSIG.
4. CHARGE TO BE 20 PSIG.

A2

CC. **Drawing Number M-604**

1. Split System Fan Coil Unit Schedule, add notes 1-7 for all split system units.

2. Gravity Ventilator Schedule, add note 1 for all ventilator hoods.

3. Air Cooled Split System Condensing Unit Schedule add notes 1-9 for all condensing units.

DD. **Drawing Number M-605**

1. Add the following to Vertical Unit Ventilator Schedule:

   Typical of all Vertical Unit Ventilators: Provide Cooling EDB (F) 80.35, Cooling EWB (F) 66.5, Heating EDB (F) 48.

   Typical of all Vertical Unit Ventilator model CAH-A: Provide Total Heating (BTUH) 90,600, Heating LDB (F) 101.5

   Typical of all Vertical Unit Ventilator Model CAH-B: Provide Total Heating (BTUH) 111,800, Heating LDB (F) 97.5

Add Vertical Unit Ventilator Notes as follows:

VERTICAL UNIT VENTILATOR NOTES:

1. SUPPLY ALL UNITS WITH DISCONNECT SERVICE SWITCHES WITH LOCKOUT TABS PROVIDED BY MANUFACTURER. REFER TO SPECIFICATION 238223.98 FOR TCC FURNISHED/ FACTORY INSTALLED CONTROLS.
2. ALL UNITS ARE SELECTED ON MEDIUM SPEED.
3. UNIT HAS DUCTED SUPPLY AIR CONNECTION WITH STAMPED RETURN GRILLE LOCATION ON BOTTOM SIDE OF UNIT.
4. ALL UNITS SUPPLIED WITH MERV-8 FILTER.
5. PROVIDE WALL RECESSED UNITS WITH TRIM FRAME AND FRONT FACING HINGED-ACCESS DOORS. ALL UNITS ARE TO HAVE FACTORY PAINTED COLOR. PROVIDE FACTORY COLOR SAMPLE TO ARCHITECTS DURING SHOP DRAWING PHASE PRIOR TO ORDERING OF EQUIPMENT.
6. PROVIDE ECM MONITOR.
7. ALL ACCESS DOORS SHALL BE TAMPERPROOF ON UNIT CABINETS, EXTENDED END POCKETS, AND WALL PANELS WITH SECURITY SCREWS/LOCKS TO LIMIT ACCESS.
8. PROVIDE FLAT BLACK CLOSED CELL INSULATION IN UNIT.
9. SUPPLY AIR DUCTWORK SERVING EACH VERTICAL UNIT VENTILATOR TO BE INTERNALLY INSULATED TO DETER NOISE TRANSFER. SIZE SHOWN ON PLANS INDICATES ACTUAL FREE AREA. SEE SPECIFICATION SECTION FOR ADDITIONAL INSULATION REQUIREMENTS. A2
10. SEE DETAILS 3B/M-501 AND 3D/M-503.
11. SCHEDULED COIL CONDITIONS ARE BASED ON A MAXIMUM SCHEDULED AIRFLOW.

EE. **Drawing Number M-606**

1. Add Split System Fan Coil Unit Schedule Notes as follows:

SPLIT SYSTEM FAN COIL UNIT SCHEDULE NOTES:

1. FAN COIL UNIT SHALL HAVE CONDESNATE PUMP TO PUMP CONDENSATE TO CONDENSATE DRAIN PIPING OR MAINS. SEE PIPING DRAWINGS.
2. UNIT DISCONNECTS ARE TO BE PROVIDED BY DIV. 26.
3. ALL INTERLOCKING WIRING BETWEEN INDOOR UNIT AND OUTDOOR UNIT PROVIDED BY DIV. 23 COORDINATE ALL MAIN POWER WIRING WITH DIV. 26 AS REQUIRED.
4. ALL WALL MOUNTED FAN COIL UNITS SERVING IT DATA ROOMS SHALL BE MOUNTED A MINIMUM OF 10'-0" A.F.F. AND A MINIMUM OF 1'-9" ABOVE ANY CABLE TRAYS IN ROOM.
5. PROVIDE COLOR MATCHING PIPE ENCLOSURE AS REQUIRED IF UNIT HAS SIDE REFRIGERANT OR CONDENSATE PIPING CONNECTIONS. A2
6. SEE DETAIL 6A/M-503.

2. Add the following to Air Cooled Split System Condensing Unit Schedule Notes:

A2

AIR COOLED SPLIT SYSTEM CONDENSING UNIT SCHEDULE NOTES:

1. COORDINATE LOCATION OF UNIT ON ROOF WITH ALLL OTHER TRADES.
2. REFERENCE INSTALLATION DETAIL 4A/M-503 FOR SINGLE CONDENSING UNIT AND 3F/M-503 FOR MULTIPLE UNIT INSTALLATION.
3. UNIT SHALL BE MOUNTED ON PRE-MANUFACTURED EQUIPMENT STANDS EQUAL TO MIRO HD.
4. SYSTEM TO INCLUDE REFRIGERANT AUTO CHARGING, LEAK CHECK FUNCTION, AND AUTO ADDRESSING FUNCTION.
5. DIV. 23 TO COORDINATE REFRIGERANT PIPE ROUTING AND SIZING WITH EQUIPMENT MANUFACTURER.
6. UNIT RATED TOTAL COOLING INFORMATION IS BASED ON OUTDOOR AIR TEMPS: 95 °F / 75 °F SUMMER CONDITIONS; 47 °F / 43 °F WINTER HEATING CONDITIONS.
7. PROVIDE OPTIONAL WIND BAFFLE FOR LOW AMBIENT COOLING OPERATION DOWN TO -10 °F AMBIENT.
8. COORDINATE ELECTRIAL POWER REQUIREMENTS WITH DIV. 26.
9. COOLING ONLY SYSTEM.

FF. **Drawing Number M-702**

1. Replace Sheet in its entirety per the attached.

GG. **Drawing Number M-703**

1. Replace Sheet in its entirety per the attached.

HH. **Drawing Number M-704**

1. Replace Sheet in its entirety per the attached.

II. **Drawing Number M-705**

1. Replace Sheet in its entirety per the attached.

JJ. **Drawing Number M-706**

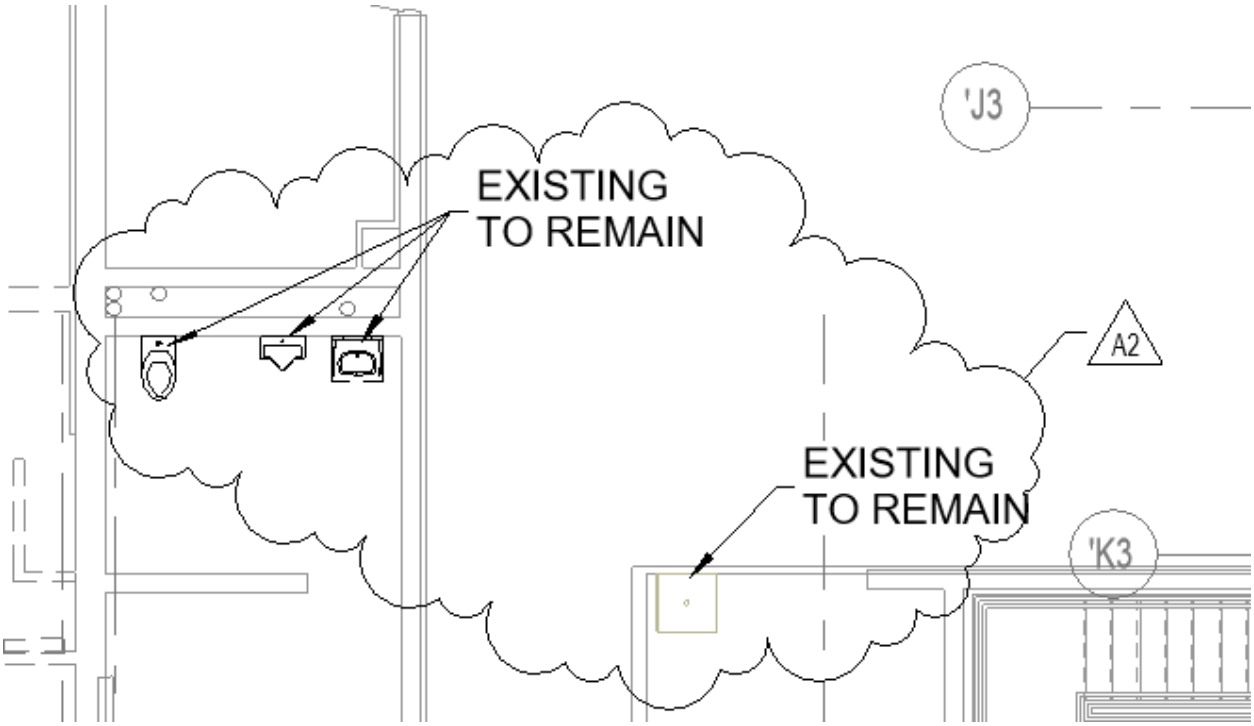
1. Replace Sheet in its entirety per the attached.

3.6 P-SERIES DRAWINGS

A. **Drawing Number PD1F2**

1. MODIFY Drawing as shown below:

"EXISTING TO REMAIN PLUMBING FIXTURES WERE NOT SHOWING UP ON THE PLAN."



3.7 E-SERIES DRAWINGS

A. **Drawing Number ES101**

1. Change plan note 15 as follows:

   "DISCONNECT AND REMOVE MEMORIAL GARDEN LIGHTING, CONCRETE BASES, WIRING, CONDUIT, ETC. REFER TO SITE PLAN FOR NEW LIGHTING, CIRCUITING AND CONTROLS."

B. **Drawing Number ES102**

1. Replace Sheet in its entirety per the attached.

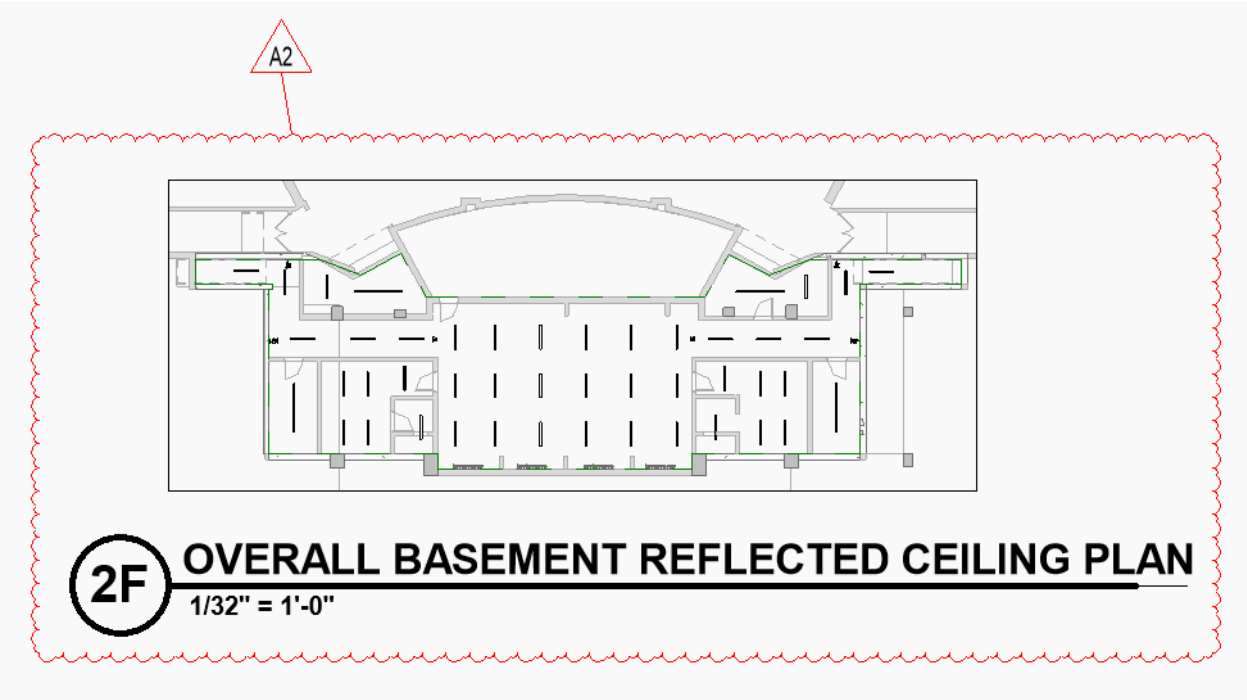
C. **Drawing Numbers ED101, ED102, ED103, EL101, EL102, EL103, EP101, EP102, EP103**

1. The following note applies to the hatching for Unit K:

   "HATCHED AREA OF THIS DRAWING INDICATES NO WORK IN THIS AREA OF BUILDING, UNLESS NOTED OTHERWISE. EXISTING ELECTRICAL INFORMATION IS SHOWN FOR REFERENCE PURPOSES ONLY."

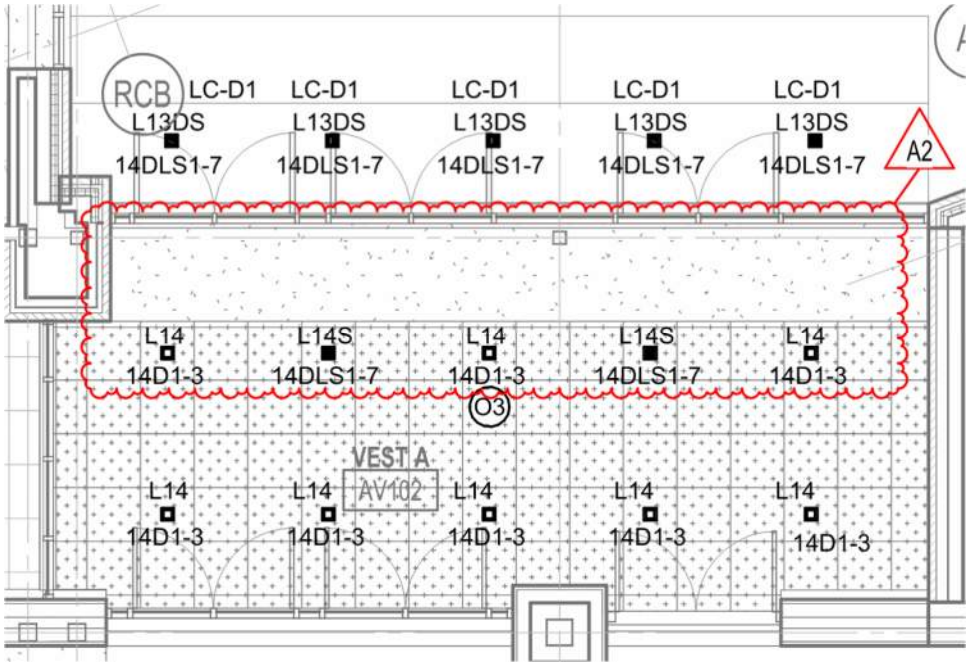
D. **Drawing Number EL101**

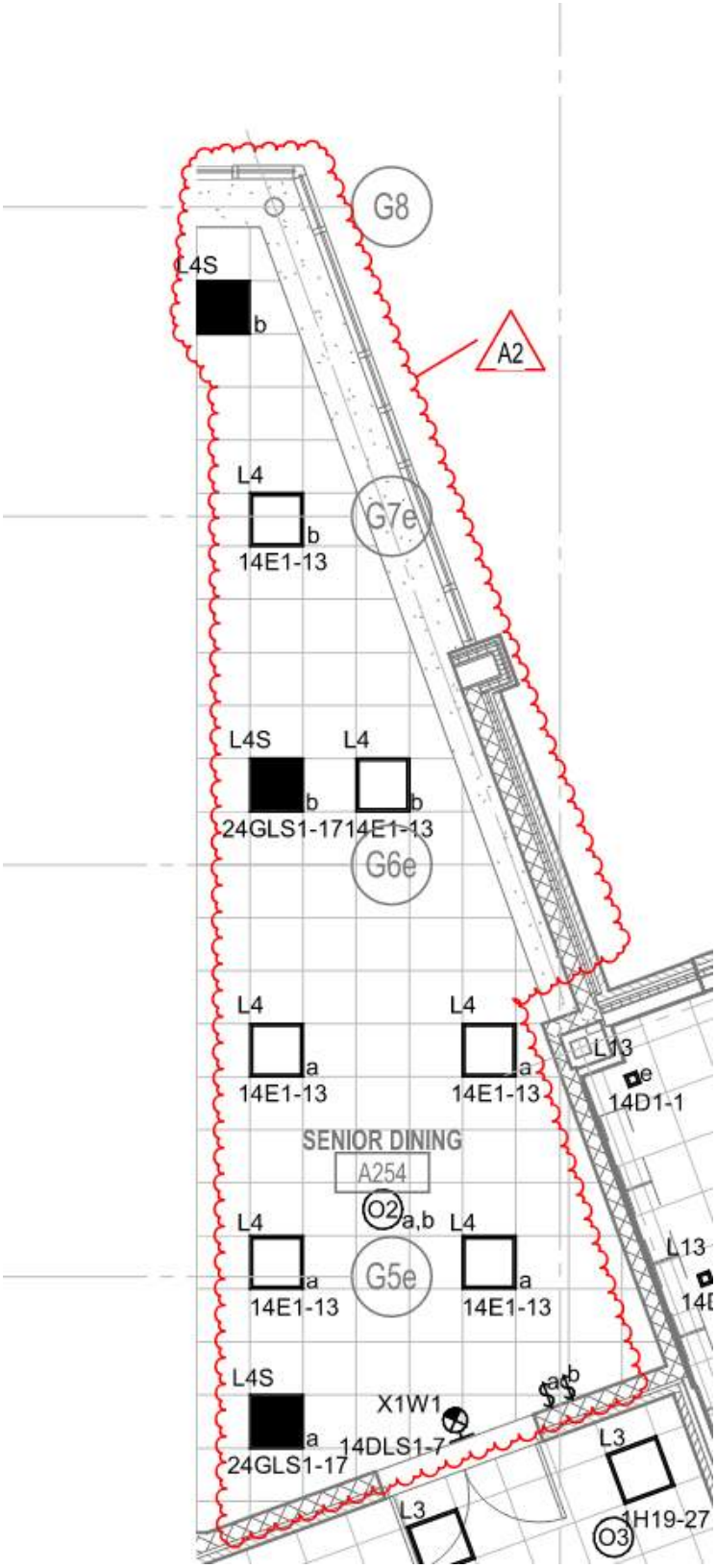
1. ADD Plan 2F/EL101 as shown below:



E. **Drawing Number EL1C1**

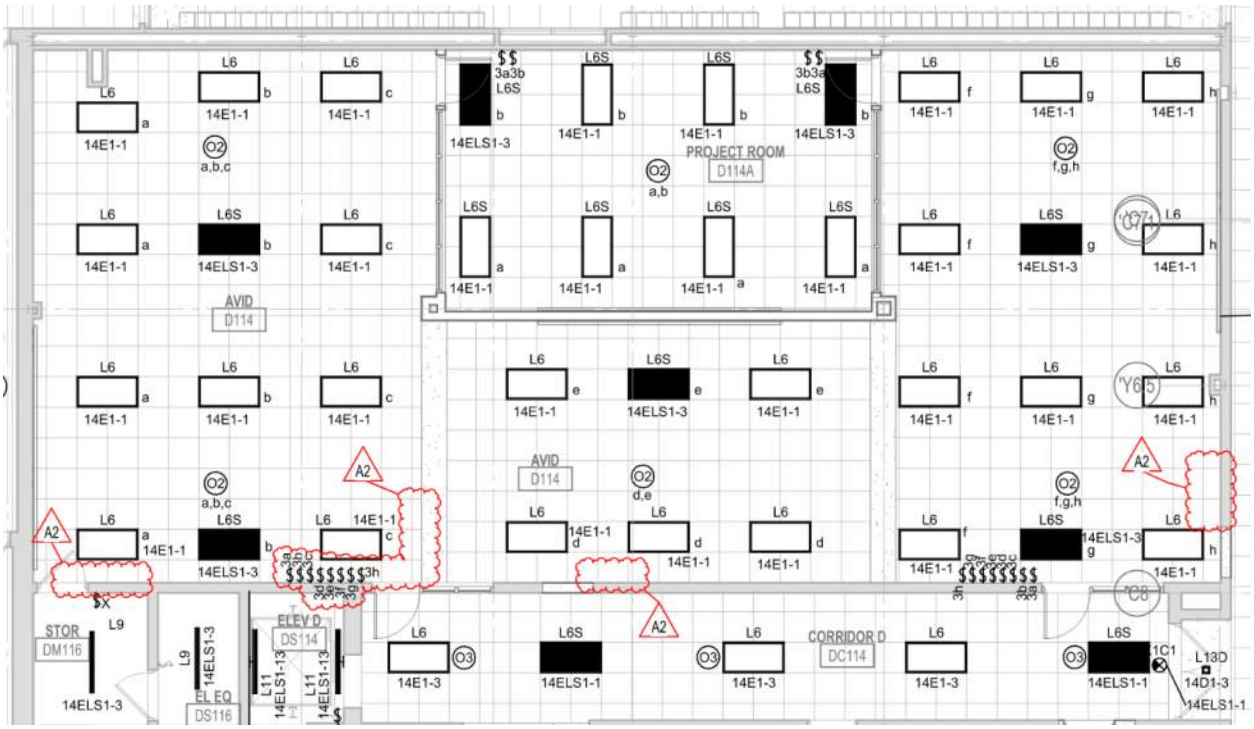
1. MODIFY Plan 1A/EL1C1 First Floor Lighting Plan – Unit C as shown below:




G8
L4S
b
A2
L4
b
G7e
14E1-13
L4S
L4
b
b
24GLS1-17
14E1-13
G6e
L4
a
14E1-13
L4
a
14E1-13
L13
e
14D1-1
SENIOR DINING
A254
O2
a,b
L4
a
14E1-13
G5e
L4
a
14E1-13
L13
L4S
a
24GLS1-17
X1W1
14DLS1-7
a
b
L3
1H19-27
O3
L3

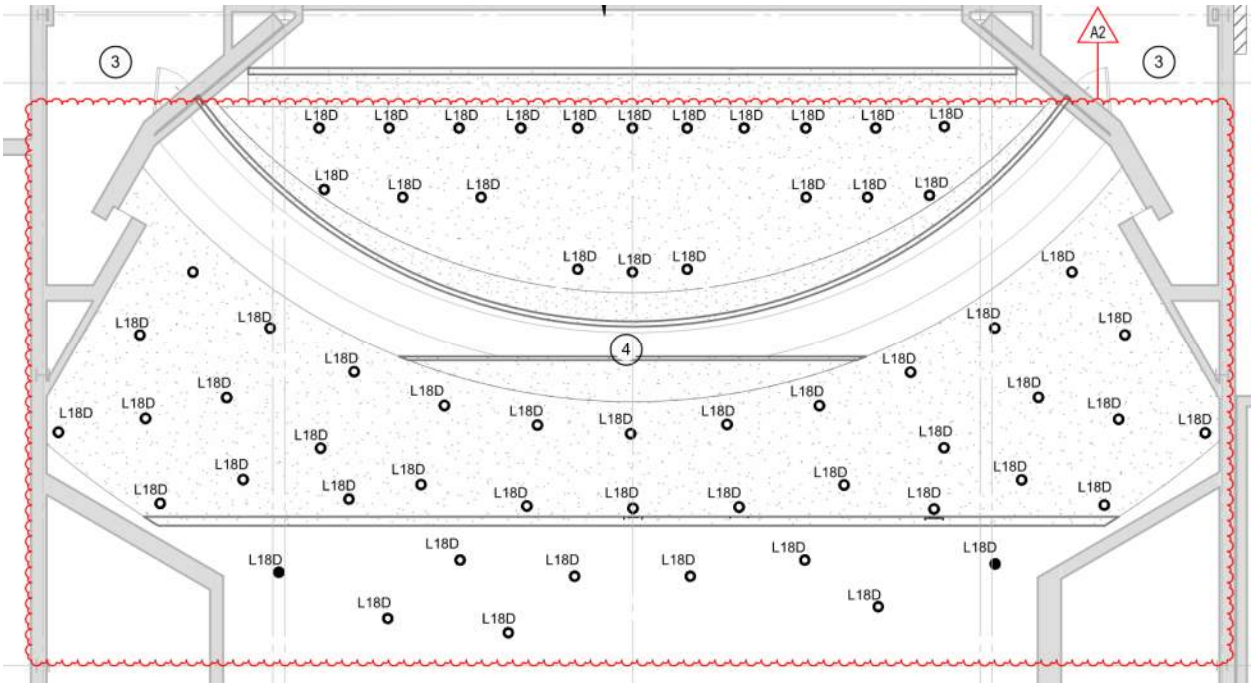
F. **Drawing Number EL1E1**

1. MODIFY Plan 1A/EL1E1 First Floor Lighting Plan Unit E as shown below:



G. **Drawing Number EL1E2**

1. MODIFY Plan 2A/EL1E2 as shown below:



H. **Drawing Number EL1F1**

1. At exterior door adjacent to Restroom HR114, change light fixture to type L43.

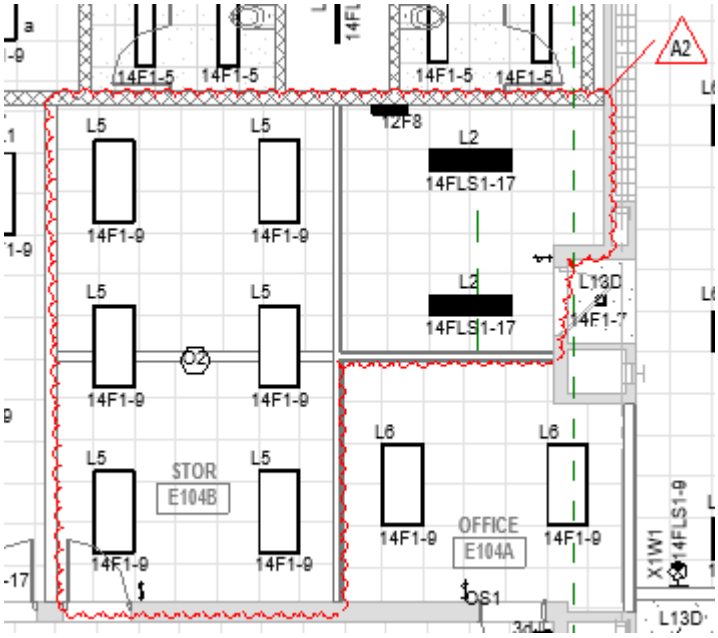
2. At E110B:

   a. Change (4) light fixture type L9 to (4) light fixture type L5.

   b. Change wall mounted occ sensor switch to single pole low voltage switch.

   c. Add ceiling mounted occupancy sensor "OS1" in center tile of ceiling grid.

   d. MODIFY Plan 2A/EL1F1 as shown below:



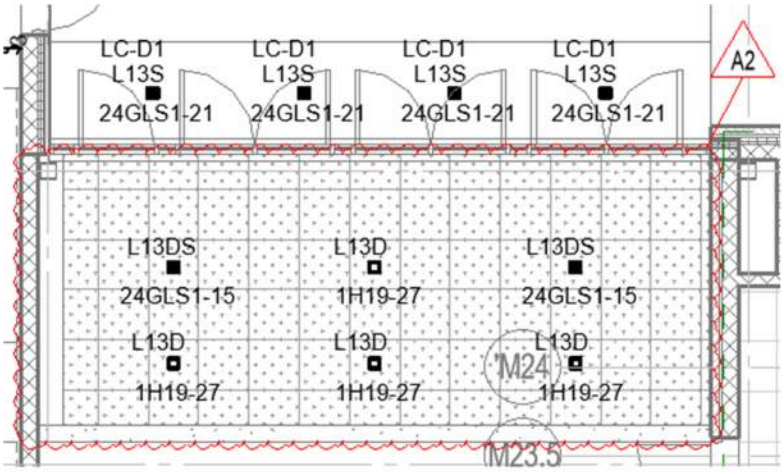
I. **Drawing Number EL1G1**

1. At Fieldhouse, on east wall, at south entry, change exterior light fixture to type L43.

2. At Fieldhouse, on east wall, at north overhead door, add (1) exterior light fixture type L45. Connect to circuit 24GLS1-21 and control from LC-D1.

3. At Fieldhouse, on north wall, at entries, change (4) exterior light fixtures to type L45.

4. MODIFY Plan 1A/EL1G1 as shown below:



J. **Drawing Number EL1K1**

1. At LV114:

   a. Circuit (4) type L4 light fixtures see below:

   b. Add (4) type L13S light fixtures. Connect to circuit 12GLS1-21. Control from LC-H1. see below:

   c. Add room name / number tag as shown below:

K. **Drawing Number EP1A1**

1. In Plan 2A, BM100, Elec, tag the panelboard east of panelboard 12AEQ1 as 12ALS1.

2. In Plan 6C, BM100, Elec, tag the panelboard east of panelboard 12AEQ1 as 12ALS1.

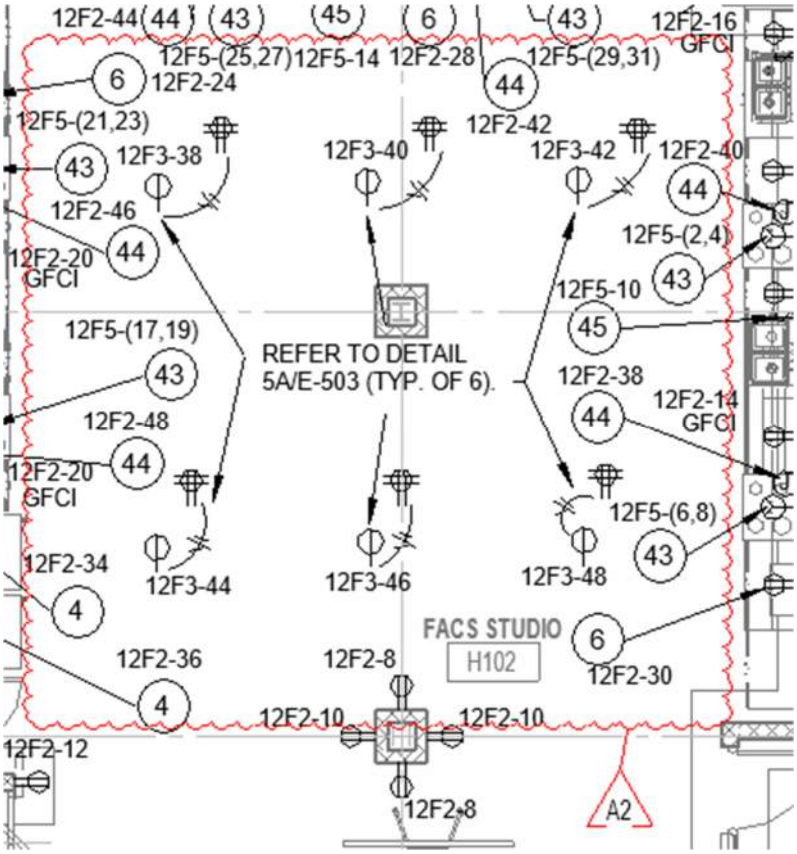
3. In Plan 6C, BM100, Elec, connect MS-A1 to circuit 12AEQ1-(1,3,5) and connect MS-A2 to circuit 12AEQ1-(2,4,6).

L. **Drawing Number EP1E1**

1. In DS116, EL EQ, connect existing elevator cab lighting to circuit 12FLS1-14.

M. **Drawing Number EP1F1.**

1. In H102, add (6) ceiling receptacles and associated quad drops as shown below. Circuit receptacles as shown below. Provide 20A circuit breakers.



2. Relocate MS-F40 in ER111 to Storage E109B.

3. Relocate MS-F39 in HR112 to Storage E109B.

4. Relocate MS-F28 in H102 to Storage H104A.

5. Relocate MS-F30 in H104 to Storage H104A. Connect MS-F30 to circuit 12F5-44. Provide 20A circuit breaker.

6. Relocate MS-F29 in H101 to Storage H101A.

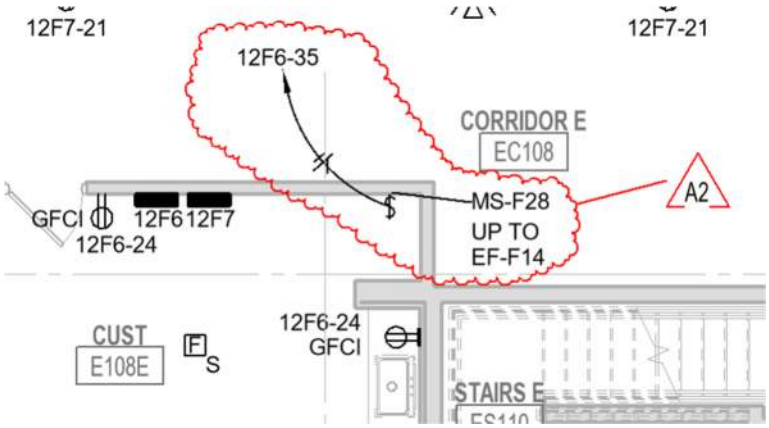
7. Relocate MS-F32 in H103 to Storage H103B.

8. Relocate MS-F36 in H105 to Storage H105B.

9. Relocate MS-F37 in H107 to Storage H107A.

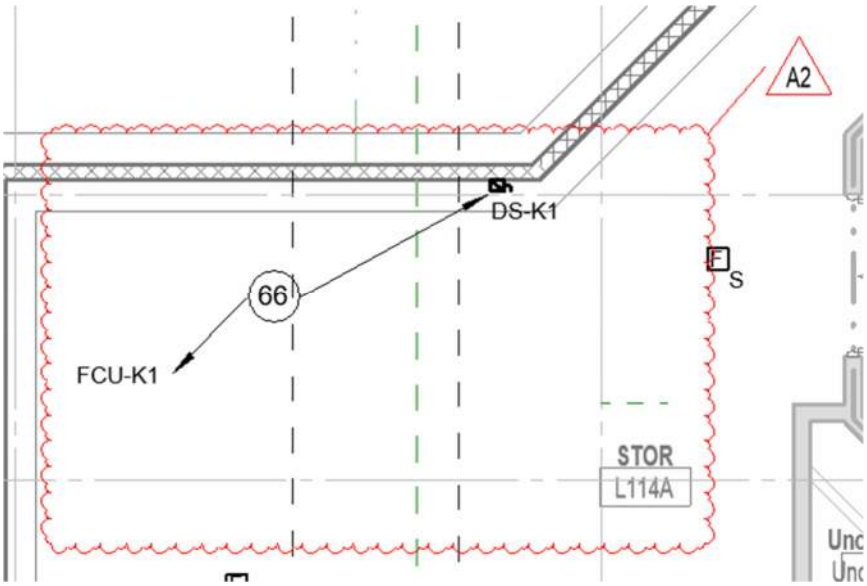
10. Relocate MS-F38 in H109 to Storage H109A.

11. Add MS-F28 as shown below. Connect to circuit indicated. Provide 20A breaker.



N. **Drawing Number EP1K1.**

1. In L114A, add 208V, 30A, single phase, fused disconnect (fused at 25A) switch DS-K1 to serve FCU-K1 as shown below:



O. **Drawing Number EP1A2**

1. In BS101, ELEV B, connect the elevator cab lighting as indicated by plan note 21 to circuit 12ALS1-7.

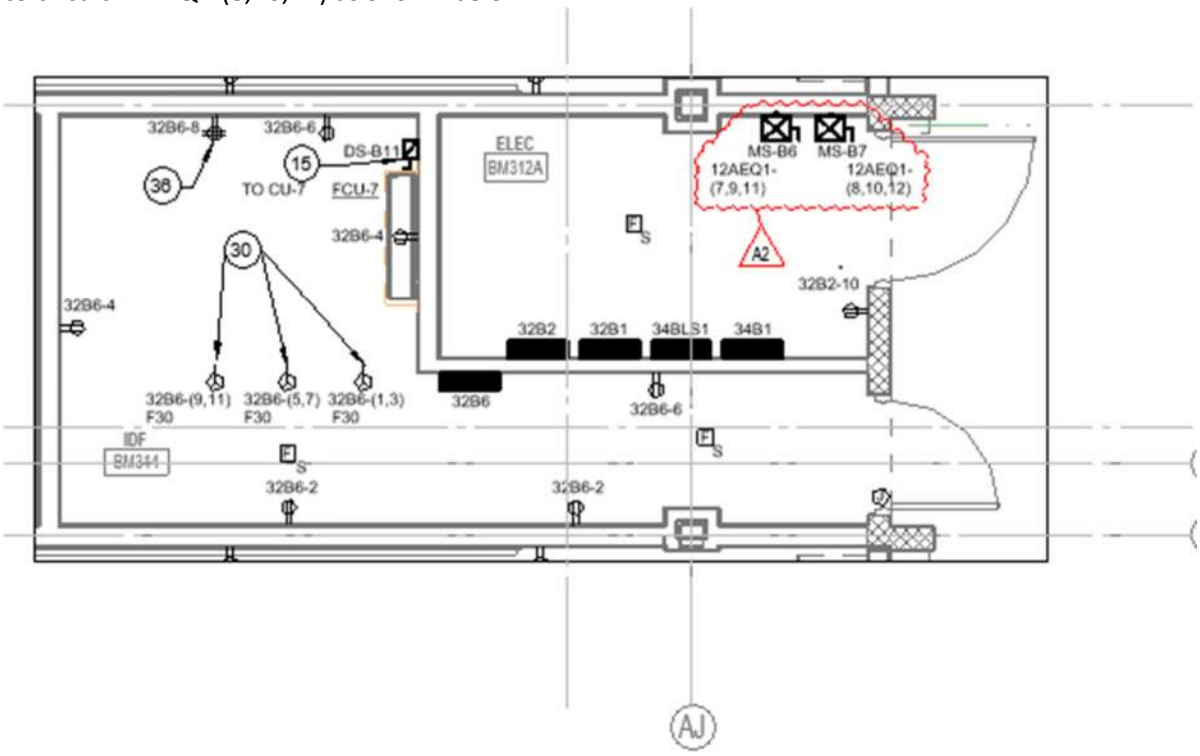
2. In BS101, ELEV B, tag the disconnect switch with DS-B1.

P. **Drawing Number EP1F2**

1. In ES2214, EL EQ, connect existing elevator cab lighting to circuit 12FLS1-16.

Q. **Drawing Number EP1B3**

1. In Plan 6D, BM312A, ELEC, connect MS-B6 to circuit 12AEQ1-(7,9,11) and connect MS-B7 to circuit 12AEQ1-(8,10,12) as shown below:



6D BM312A ELEC/BM314 IDF - ENLARGED POWER PLAN
1/4" = 1'-0"

R. **Drawing Number ER101.**

1. Connect DS-A7 to circuit 14ADP1-(14,16,18).

2. Connect DS-A8 to circuit 14ADP1-(19,21,23). Provide 30A feeder.

3. Connect roof duplex receptacle adjacent to EX. EF C-4 to circuit 12E2-29. Provide 20A circuit breaker.

S. **Drawing Number ER102.**

1. Connect roof duplex receptacle adjacent to CU-E1 to circuit 12E1-16. Provide 20A circuit breaker.

2. Connect roof duplex receptacle adjacent to CU-H1 to circuit 1L4-8. Provide 20A circuit breaker.

3. Connect DS-B17 to circuit 14BSB1-(4). Provide 110A feeder.

4. Connect DS-B16 to circuit 14BSB1-(3). Provide 110A feeder.

5. Connect roof duplex receptacle adjacent to EF-F8 to circuit 12F4-42. Provide 20A circuit breaker.

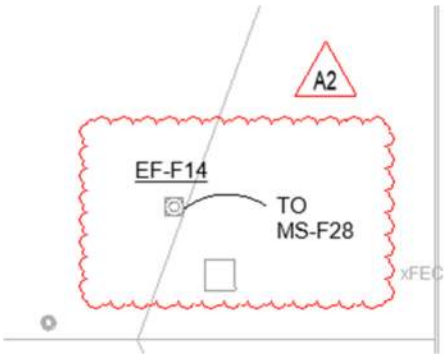
6. Connect roof duplex receptacle adjacent to EF-F10 to circuit 12F4-42. Provide 20A circuit breaker.

7. Connect roof duplex receptacle adjacent to EF-F11 to circuit 12F6-18. Provide 20A circuit breaker.

8. Connect roof duplex receptacle adjacent to EF-F4 to circuit 12F6-26. Provide 20A circuit breaker.

9. Connect roof duplex receptacle adjacent to EF-F3 to circuit 12F6-26. Provide 20A circuit breaker.

10. Connect EF-14 to MS-F28 as shown below:



T. **Drawing Number ER103.**

1. Connect roof duplex receptacle adjacent to CU-H1 to circuit 1L4-8. Provide 20A circuit breaker.

2. Connect roof duplex receptacle adjacent to EF-G3 to circuit 2L3-36. Provide 20A circuit breaker.

3. Connect roof duplex receptacle adjacent to EF-G4 to circuit 2l3-36. Provide 20A circuit breaker.

4. Connect roof duplex receptacle adjacent to CU-K1 to circuit 2L3-34. Provide 20A circuit breaker.

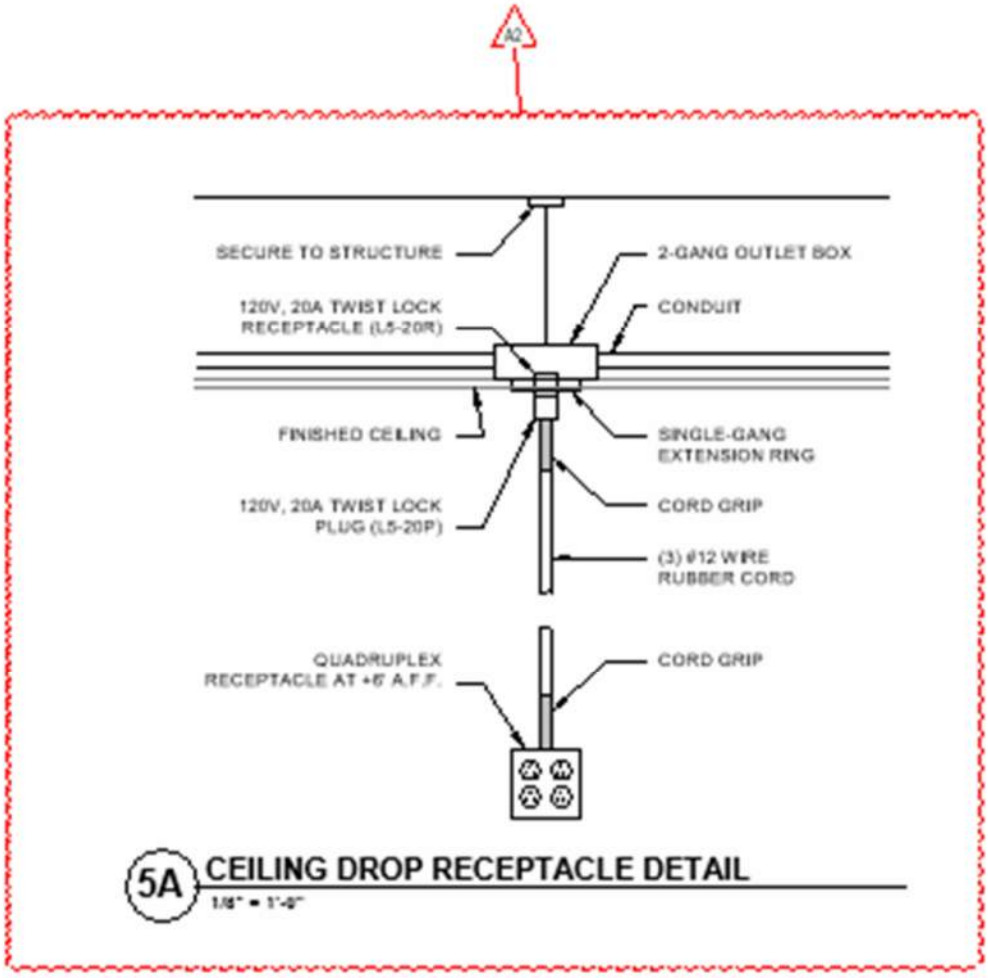
5. Connect roof duplex receptacle adjacent to EF-G1 to circuit 2L3-37. Provide 20A circuit breaker.

6. Connect roof duplex receptacle adjacent to EF-G2 to circuit 2L3-37. Provide 20A circuit breaker.

U. **Drawing Number E-401.**

1. At boiler pumps BP-1, BP-2, BP-3, BP-4, BP-5, BP-6, and BP-7, change feeder labels to F30.
   Drawing Number E-503.

2. Add detail "5A / CEILING DROP RECEPTACLE DETAIL" as shown below:



V. **Drawing Number E-607**

1. In Schematic 1A, modify the following:

   a. Change Note 1 to "PROVIDE H-O-A SWITCH, "ON" PILOT LIGHT AND CONTACTOR IN A COMMON ENCLOSURE."

   b. Change Note 3 to "REFER TO SPECIFICATION SECTION 262913 FOR ADDITIONAL INFORMATION."

W. **Drawing Number E-608.**

1. Remove light fixture type L46 in its entirety.

2. At fixture type L6S, SOURCE, change WATTS to 40 W.

3. At fixture type S2, SOURCE, change WATTS to 796 W.

X. **Drawing Numbers E-610 – E-620**

1. add the following note to all Drawings:

   "Disregard all AIC ratings listed on switchboards and panelboards. The AIC ratings will be determined by specification section 260574.99".

Y. **Drawing Number E-610**

1. In MDP1 Schedule, add the following:

   "7. Provide externally mounted SPD above the top of the switchboard and connect complete to bus."

2. In MDP2 Schedule, add the following:

   "6. Provide externally mounted SPD above the top of the switchboard and connect complete to bus."

3. In HD1 Schedule, modify the following:

   a. Delete the 1200A value for main circuit breaker.

   b. Add to circuit 1, circuit breaker option "Y".

   c. Add to circuit 2, circuit breaker option "X".

   d. Change circuit 2 frame size to "600 A".

4. In LD1 Schedule, modify the following:

   a. Add MCB option "Y".

b. Add to circuit 1, circuit breaker option “X”.

Z. **Drawing Number E-612**

1. In HD2 Schedule, modify the following:

   a. Add to circuits 1-4, circuit breaker option “X”.

   b. Add 225A-3P spare circuit breakers in circuits 11 and 12.

   c. Add 100A-3P spare circuit breakers in circuits 13 and 14.

   d. Add spaces in circuits 15 and 16.

2. In 14E1 Schedule, add the following:

   “1. Provide internal SPD.”

3. In LD2 Schedule, modify the following:

   a. Add MCB option “Y”.

   b. Add to circuits 1 and 2, circuit breaker option “Y”.

   c. Change circuit 16 to 225A-3P circuit breaker in 225A frame.

   d. Add 225A-3P spare circuit breakers in circuits 17 and 18.

   e. Add 100A-3P spare circuit breakers in circuits 19 and 20.

   f. Add spaces in circuits 21 and 22.

AA. **Drawing Number E-613**

1. In 14D1 Schedule, add the following:

   “1. Provide internal SPD.”

BB. **Drawing Number E-614**

1. Replace 14FSB1 Schedule as shown below:

SWITCHBOARD SCHEDULE

A2

SWITCHBOARD: 14FSB1
LOCATION: ELEC EM105
MOUNTING: FLOOR
SUPPLY FROM: MDP1

VOLTS: 480Y/277 V
PHASES: 3
WIRES: 4
AIC RATING:

MAINS RATING: 1200 A
MAINS TYPE: MLO
MCB RATING:
MCB OPTIONS:

O	CKT NO.	CIRCUIT DESCRIPTION	P	FRAME SIZE	TRIP RATING	A	B	C	REMARKS
X	1	T-F1	3	800 A	800 A	119.13	119.49	109.86	XFMR
X	2	2H2	3	400 A	400 A	57.87	57.87	57.87	PANEL
	3	2H5	3	225 A	225 A	11.97	11.97	11.97	PANEL
	4	2H6	3	225 A	225 A	34.71	34.71	34.71	PANEL
	5	14F1	3	100 A	100 A	12.84	11.37	10.91	PANEL
	6	24F2	3	100 A	100 A	0.81	0.00	0.00	PANEL
--	7	SPARE	3	--	225 A	--	--	--	
--	8	SPARE	3	--	225 A	--	--	--	
--	9	SPARE	3	--	100 A	--	--	--	
--	10	SPARE	3	--	100 A	--	--	--	
--	11	SPACE	--	--	--	--	--	--	--
--	12	SPACE	--	--	--	--	--	--	--
					Total Load:	237.33 kVA	235.41 kVA	225.32 kVA	
					Total Amps:	862 A	855 A	813 A	
								Total Conn. Load:	
								Total Amps:	

Notes:

2. Replace 12FSB1 Schedule as shown below:

SWITCHBOARD SCHEDULE

A2

SWITCHBOARD: 12FSB1
LOCATION: ELEC EM105
MOUNTING: FLOOR
SUPPLY FROM: T-F1

VOLTS: 208Y/120 V
PHASES: 3
WIRES: 4
AIC RATING:

MAINS RATING: 1600 A
MAINS TYPE: MCB
MCB RATING: 1600 A
MCB OPTIONS: Y

O	CKT NO.	CIRCUIT DESCRIPTION	P	FRAME SIZE	TRIP RATING	A	B	C	LOAD	REMARKS
	1	12F1	3	225 A	225 A	14.33	13.61	15.15	43.08	PANEL
	2	12F2	3	225 A	225 A	11.96	13.52	12.94	38.42	PANEL
	3	12F3	3	225 A	225 A	11.56	15.48	12.32	39.36	PANEL
	4	12F4	3	225 A	225 A	10.54	10.90	9.10	30.53	PANEL
	5	12F5	3	225 A	225 A	29.86	22.12	23.68	75.66	PANEL
	6	12F6	3	225 A	225 A	6.30	7.30	5.04	18.64	PANEL
	7	12F7	3	225 A	225 A	6.84	4.68	4.50	16.02	PANEL
	8	12F8	3	225 A	225 A	7.34	6.98	6.98	21.29	PANEL
	9	1L15	3	225 A	225 A	2.72	2.36	1.80	6.88	PANEL
	10	2L4	3	225 A	225 A	4.16	8.40	5.35	17.92	PANEL
	11	2L14	3	100 A	100 A	0.86	1.87	1.20	3.94	PANEL
	12	2L15	3	225 A	225 A	0.00	0.00	0.00	0.00	PANEL
	13	2L16	3	100 A	100 A	5.33	4.95	4.46	14.74	PANEL
	14	H107B	3	100 A	50 A	3.67	3.67	3.67	11.00	KILN
	15	H107B	3	100 A	50 A	3.67	3.67	3.67	11.00	KILN
--	16	SPARE	3	--	225 A	--	--	--	0.00	
--	17	SPARE	3	--	225 A	--	--	--	0.00	
--	18	SPARE	3	--	100 A	--	--	--	0.00	
--	19	SPARE	3	--	100 A	--	--	--	0.00	
--	20	SPACE	--	--	--	--	--	--	0.00	--
					Total Load:	119.13 kVA	119.49 kVA	109.86 kVA		
					Total Amps:	1005 A	1008 A	915 A		
								Total Conn. Load:	348.48 kVA	
								Total Amps:	1008 A	

Notes:

3. In 12F2 Schedule, in circuit 7, add a spare 20A-1P circuit breaker.

CC. **Drawing Number E-615**

1. In 12F7 Schedule, in circuits 28 and 30, add spare 20A-1P circuit breakers.

DD. **Drawing Number E-616**

1. In 14JLSDP1 AND 14JEQDP1 Schedules, add the following:

   "1. Provide internal SPD."

2. In 14DLS1, 12DLS1, 14FLS1, 12FLS1, 14ELS1, 24GLS1, 22GLS1 Schedules, add the following:

   "2. Provide internal SPD."

3. In 14HLS1 Schedule, modify the following:

   a. Add 20A-1P spare circuit breakers in circuits 20-42.

   b. Add the following note: "5. Provide internal SPD."

EE. **Drawing Number E-617**

1. In 14ADP1 Schedule, modify the following:

   a. Change the panelboard schedule to "POWER DISTRIBUTION PANELBOARD".

   b. Add (1) 225A-3P and (2) 100A-3P spare circuit breakers.

   c. Add (4) spaces for 100A-3P circuit breakers.

2. Replace 12ADP1 Schedule as shown below:

A2

POWER DISTRIBUTION PANELBOARD SCHEDULE

DESIGNATION:	12ADP1			**VOLTS:**	208Y/120 V							**MAINS RATING:**	800 A					
LOCATION:	ELEC BM100			**PHASES:**	3							**MAINS TYPE:**	MCB					
MOUNTING:	SURFACE			**WIRES:**	4							**MCB RATING:**	800 A					
SUPPLY FROM:	T-A1			**AIC RATING:**	25,000							**MCB OPTIONS:**	Y					

O	CKT NO.	CIRCUIT ROOM #	CIRCUIT TYPE	TRIP	P	A		B		C		P	TRIP	CIRCUIT TYPE	CIRCUIT ROOM #	CKT NO.	O
	1	12A1	PANEL	225 A	3	11.60	10.92					3	225 A	PANEL	12A2	2	
--	3	--	--	--	--			9.00	12.84			--	--	--	--	4	--
--	5	--	--	--	--					9.70	10.26	--	--	--	--	6	--
	7	12A3	PANEL	225 A	3	12.72	4.54					3	100 A	PANEL	12A4	8	
--	9	--	--	--	--			12.33	5.32			--	--	--	--	10	--
--	11	--	--	--	--					11.40	5.32	--	--	--	--	12	--
	13	22A1	PANEL	225 A	3	13.14	13.69					3	225 A	PANEL	22A2	14	
--	15	--	--	--	--			11.22	9.40			--	--	--	--	16	--
--	17	--	--	--	--					13.50	10.68	--	--	--	--	18	--
	19	32A1	PANEL	225 A	3	13.32	9.34					3	225 A	PANEL	32A2	20	
--	21	--	--	--	--			11.40	8.34			--	--	--	--	22	--
--	23	--	--	--	--					12.78	8.34	--	--	--	--	24	--
	25	32A3	PANEL	100 A	3	3.32	0.00					3	225 A		SPARE	26	--
--	27	--	--	--	--			2.36	0.00			--	--	--	--	28	--
--	29	--	--	--	--					1.32	0.00	--	--	--	--	30	--
--	31	SPARE		100 A	3	0.00	0.00					3	100 A		SPARE	32	--
--	33	--	--	--	--			0.00	0.00			--	--	--	--	34	--
--	35	--	--	--	--					0.00	0.00	--	--	--	--	36	--
--	37	SPACE	--	--	--	0.00	0.00					--	--	--	SPACE	38	--
--	39	SPACE	--	--	--			0.00	0.00			--	--	--	SPACE	40	--
--	41	SPACE	--	--	--					0.00	0.00	--	--	--	SPACE	42	--
					TOTAL LOAD:	92.61 kVA		82.23 kVA		83.33 kVA							
					TOTAL AMPS:	773 A		685 A		696 A							

TOTAL CONNECTED LOAD:	258.16 kVA
TOTAL CONNECTED AMPS:	773 A

NOTES:

3. Change 32A2 Schedule to a 54 circuit panelboard. Add 20A-1P spare circuit breakers in circuits 43-54.

FF. **Drawing Number E-618**

1. In 14BSB1 Schedule, modify the following:

   a. Add MCB option "Z".

   b. Add (2) 225A-3P and (2) 100A-3P spare circuit breakers.

   c. Add (4) spaces for 100A-3P circuit breakers.

   d. Add note "1. Provide internal SPD."

GG. **Drawing Number E-619**

1. In 22B2 Schedule, modify the following:

   a. Add to circuits 2, 4, 5,7,9 and 11, circuit breaker option "G".

2. In 22B3 Schedule, modify the following:

   a. Change circuits 37, 39, 41, 30, 32, 34, 36, 38, 40 and 42 to 20A-1P spare circuit breakers.

3. In 32B2 Schedule, modify the following:

4. Add to circuits 2, 4, 5, 7, 8, 9, 11 and 12 circuit breaker option "G".

HH. **Drawing Number E-620**

1. In 14BLS1 AND 24BLS1 Schedules, add the following:

   "2. Provide internal SPD."

2. In 34BLS1 AND 12ALS1 Schedules, add the following:

   "1. Provide internal SPD."

END OF ADDENDUM 2