VENTURA UNIFIED SCHOOL DISTICT

MONTALVO ELEMENTARY SCHOOL HVAC REPLACEMENT

BID # E2-24

JANUARY 17TH 2025

ADDENDUM #01

NOTICE TO BIDDERS:

The following revisions and/or clarifications shall be made to the bidding requirements and contract documents. Revise and amend the documents for the above-named project in accordance with this addendum. The bid shall reflect these addendum changes and each bidder shall refer in their bid to this addendum.

All bidding requirements and contract documents shall apply to this addendum as originally indicated in the applicable portions of the contract documents, unless otherwise modified by this addendum.

Contractors shall acknowledge this addendum at the space provided on the Bid Proposal.

REVISIONS, CLARIFICATIONS, & RESPONSES TO PRE-BID RFI'S:

1. Review Addendum Number One by KBZ dated January 17th 2025.

REVISIONS TO THE PLANS: A-600, A-601, E-200, E-201, E-402

REVISIONS TO THE SPECIFICATIONS: Not Applicable

END OF ADDENDUM #01

Addendum: 1 Page

ENCLOSURES: 19 Pages

Total Number of Pages: 20

ADDENDUM NUMBER ONE

January 17, 2025



E2-24 MONTALVO HVAC
2050 Grand Ave
Ventura, CA 93003

Issued By:
KRUGER BENSEN ZIEMER ARCHITECTS, INC.
199 Figueroa St, Ste 100A
Ventura, CA 93001

To all bidders submitting proposal(s) for the captioned project: this Addendum is hereby made part of the Contract Documents to the same extent as though it was originally included therein and takes precedence over the original documents and any previous addenda.

Acknowledge receipt of the Addendum on Form of Proposal

A. PRE-BID REQUESTS FOR INFORMATION

ITEM NO. 1: ENGINEER'S ESTIMATE

The third-party estimator has put the project cost at approximately $5.5 million.

ITEM NO. 2: ABATEMENT

Q1: Please clarify who is responsible for asbestos removal and laboratory clearance.

A1: Bidders are responsible for hazardous material abatement and lab testing/clearance (i.e. not the District).

ITEM NO. 3: WORK HOURS / PHASING

Q2: Please confirm the approved work hours and provide a breakdown of project phases.

A2: Standard work hours available from 7:00 am – 7:00 pm. See Section B of this addendum for phasing information.

ITEM NO. 4: ROOF PATCH RESPONSIBILITY

Q3: Please specify who is responsible for roof patching after HVAC installation.

A3: Bidders are responsible for all roof patching related to the HVAC scope of work. Bidders should contact the prior roofing contractor for work under warranty: ADCO Roofing & Waterproofing, Jade Perry **Mobile:** (559) 359-1988 **| E-mail:** jade@adcoroofing.com

ITEM NO. 5: TEMPORARY FENCING

Q4: Please indicate which areas must be secured with fencing during the project.

A4: Bidders must include fencing for all locations of stored materials, open trenches, or where required to maintain safety. Perimeter fencing of school not required.

ITEM NO. 6: MAIN SWITCHGEAR PHOTOS

Q5: Please share photos of the main switchboard for reference.

A5: Photos of Switchgear are attached.

B. PROJECT MANUAL

ITEM NO. 7: PROJECT PHASING

The District wishes work to commence during VUSD's Spring Break, and thus has added the following phasing deadlines, as discussed at the pre-bid walk:

- Phase 1 construction: March 22, 2025 – March 29, 2025. Scope: new exterior concrete equipment pads and fence posts, underground electrical trenches, conduit, pull boxes, etc.
- Phase 2 construction: June 7, 2025 – August 6, 2025, for remainder of scope through substantial completion.

ITEM NO. 8: OTHER WORK

As discussed at the pre-bid walk, the District will have two concurrent projects under construction during this project – the solar array's project and the playground installation project. HVAC contractor is required to coordinate site access and work activities with other projects' contractors.

ITEM NO. 9: LONG-LEAD SUBMITTALS

Due to the short project duration, contractors are required to submit any long-lead items no later than 14 days after contract award. These items may include, but are not limited to: HVAC equipment and electrical distribution panels/sections.

ITEM NO. 10: SITE FIRE SAFETY PLAN

Per new DSA requirements, a completed Site Fire Safety Plan must be filed concurrently with the DSA 102-IC Construction Start Notice form. The plan must be created by the successfully awarded contractor and submitted to the Architect of Record within 7 days of the Board award of contract. See attached BU 24-05 for details on the required components of the Plan.

C. DRAWINGS

ITEM NO. 11: A-100 CALGREEN CODE COMPLIANCE CLARIFICATION

Please delete the CalGreen note on A-100 stating "THERE IS NO NEW SQUARE FOOTAGE OR REMODEL IN THE SCOPE OF WORK HENCE THIS PROJECT IS EXEMPT FROM CALGREEN CODE REQUIREMENTS."

Some aspects of CalGreen are applicable to alteration projects, and contractors shall follow the requirements shown on sheets CG-1 through CG-4.

ITEM NO. 12: SHEETS A-600 AND A-601 REFLECTED CEILING PLANS

Insert two new drawing sheets A-600 and A-601 to the bid plans. These new reflected ceiling plans indicate extent of planned ceiling modifications and replacements.

ITEM NO. 13: LOCATION OF WALL-MOUNTED PULLBOX NEAR MAIN SWITCHGEAR

Relocation new wall mounted pull box as shown in revised sheet E-200 and E-201 due to intervening solar project equipment installation.

ITEM NO. 14: ADDITIONAL CONDUITS AND PULLBOX FOR FUTURE PROJECT

Add (2) 2-1/2" conduits from switchgear to future project location, to fall in same trench as one serving the feed to the Kindergarten building. See revised E-200 and E-201, attached.

ITEM NO. 15: SHEET E-402 – CLARIFICATION OF FEEDER AT BUILDING B

Information has been added to clarify the routing of the feeder between MS and panel AC1 in Building B. See revised E-402, attached.

D. ATTACHMENTS

1. Existing Main Switchgear/Panel F Photos (8.5x11, 9 pages)..... (New)
2. DSA BU 24-05 (8.5 x 11, 2 pages) ..... (New)
3. Sheet A-600 Reflected Ceiling Plan – Bldgs A/C and B (30x42) ..... (New)
4. Sheet A-601 Reflected Ceiling Plan – Bldgs D, E, F, and G (30x42)..... (New)
5. Sheet E-200 Site Power plan (30x42)..... (Replacement)
6. Sheet E-201 Single Line Diagram (30x42)..... (Replacement)
7. Sheet E-402 Building B HVAC Power Plans (30x42)..... (Replacement)

END OF ADDENDUM NUMBER ONE


Spectra Series™ Switchboards
MSB
DANGER
NOTICE
PANEL I
PANEL DP
PANEL E1
PANEL F
BUS SPLICES


Req. No.
Job No.
Cust. Mark
Supply Amps
480J3888 – TS
17869293 – 1
***
1200
Section Amps
Neutral Amps
Phase
Volts
Wire
1200
1200
3
208Y/120
4
Hz
Type
Section Of Sections
Plant
60
3R
1 OF 3
MM1298
Short circuit current rating 65 k RMS sym. amps at 208 volts max. The short circuit rating of any switchboard section is limited to the lowest short circuit rating of any switchboard section connected in series or the lowest short circuit rating of any installed device or combination series connected circuit breakers. Additional or replacement devices shall be of the same manufacture and type designation with short circuit rating at least that of the lowest rated device installed.
Assembled in Mexico
GE Electrical Distribution & Control
General Electric Company Plainville, CT 06063
Spectra Series™
APN BOLT – ON STYLE
Spectra S
CIRCUIT BR
POSITION IN
HANDLE TO
DANGER
HAZARDOUS VOLTAGE WILL CAUSE SERIOUS INJURY OR DEATH
DE-ENERGIZE ALL POWER BEFORE ENTERING ENCLOSURE OR REMOVING BARRIERS
ALL SERVICE DISCONNECTS MUST BE OPEN TO DE-ENERGIZE ALL LOAD BUS BARS AND CIRCUITS
REPLACE COVERS/ BARRIERS, BEFORE ENERGIZING
252B3431P1


ectra Series™ Switchboards
LISTED
DEADFRONT SWITCHBOARD SECTION
ISSUE NO. 1152
OF 3
GE ELECTRICAL DISTRIBUTION & CONTROL
FOR SERVICE CALL
(888) GE-RESOLve
(888) 437-3765
24 HOURS A DAY
MSB
CIRCUIT BREAKER HANDLE IN INTERMEDIATE POSITION INDICATES TRIPPED. TO RESET, MOVE HANDLE TO EXTREME OFF POSITION, THEN TO ON.
NOTICE
LOCATED IN THIS COMPARTMENT
BUS SPLICE
ASSEMBLY HARDWARE
DIAGRAMS
INSTRUCTION BOOK
SEISMIC HARDWARE

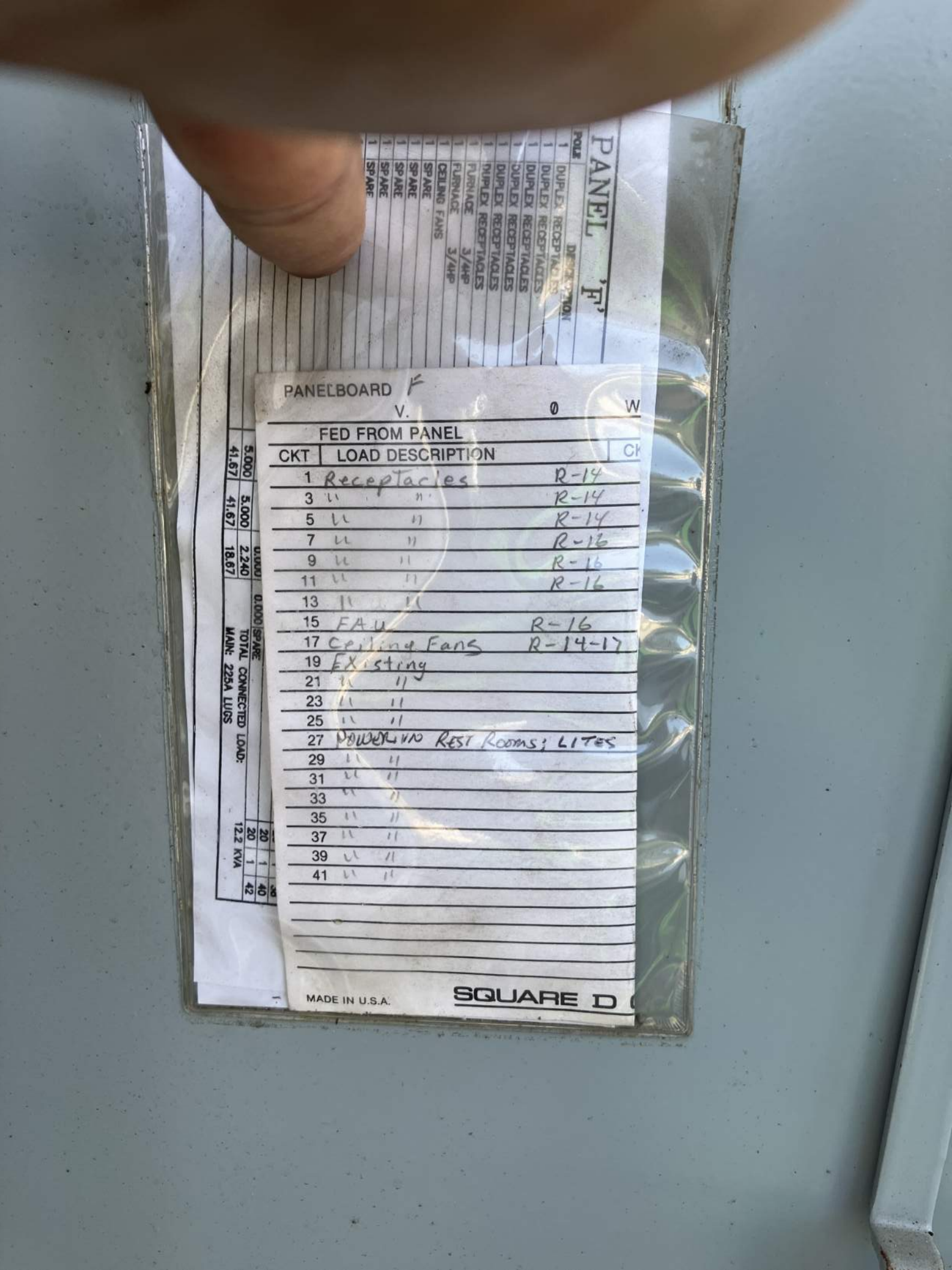

MSB
CIRCUIT BREAKER HANDLE IN INTERMEDIATE POSITION INDICATES TRIPPED. TO RESET, MOVE HANDLE TO EXTREME OFF POSITION, THEN TO ON.
NOTICE
LOCATED IN THIS COMPARTMENT
BUS SPLICE
ASSEMBLY HARDWARE
DIAGRAMS
INSTRUCTION BOOK
SEISMIC HARDWARE
PANEL F


MSB
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ALL SERVICE DISCONNECTS MUST BE OPEN TO DE-ENERGIZE ALL LOAD BUS BARS AND CIRCUITS
REPLACE COVERS/ BARRIERS, BEFORE ENERGIZING
PANEL I
PANEL DP
PANEL E1


PANEL I
PANEL DP
PANEL E1
PANEL F


PANEL F
OFF
100A
ON
OFF
100A


PANEL F
A-Series® Panelboard
AB433


PANEL 'F'
POLE
DESCRIPTION
1 DUPLEX RECEPTACLES
1 DUPLEX RECEPTACLES
1 DUPLEX RECEPTACLES
1 DUPLEX RECEPTACLES
1 DUPLEX RECEPTACLES
1 DUPLEX RECEPTACLES
1 FURNACE 3/4HP
1 CEILING FANS
1 SPARE
1 SPARE
1 SPARE
1 SPARE
1 SPARE
5.000
41.67
5.000
41.67
2.240
18.67
0.000 SPARE
TOTAL CONNECTED LOAD:
MAIN: 225A LUGS
12.2 KVA
20
1
42
20
1
40
PANELBOARD F
V.
Ø
W
FED FROM PANEL
CKT
LOAD DESCRIPTION
1 Receptacles R-14
3 " " R-14
5 " " R-14
7 " " R-16
9 " " R-16
11 " " R-16
13 " "
15 FAU R-16
17 Ceiling Fans R-14-17
19 Existing
21 " "
23 " "
25 " "
27 Power Living Rest Rooms; Lites
29 " "
31 " "
33 " "
35 " "
37 " "
39 " "
41 " "
MADE IN U.S.A.
SQUARE D

DSA BU 24-05

BULLETIN: FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

PURPOSE

A DSA Bulletin is a notification to its stakeholders regarding any issue intended to be directed to a broad group of external stakeholders as well as DSA staff. This bulletin provides guidance on the development of, and requirement for, a site fire safety plan for the construction of new buildings, additions or alterations to existing buildings, reconstruction projects, and nonconforming building rehabilitation projects submitted for approval using the 2022 CBC and later.

BACKGROUND

California Education Code (EDC) Sections 17280 and 81130 direct the Department of General Services (DGS) to supervise the design and construction any school building to ensure that plans and specifications comply with the standards published in Title 24, California Code of Regulations (CCR). The DGS delegates this responsibility to the Division of the State Architect (DSA).

1. REQUIREMENT

1.1 Section 3302.3 of the California Building Code (CBC) directs compliance with Chapter 33 of the California Fire Code (CFC). Chapter 33 of the CFC outlines requirements for fire safety during construction and demolition wherein Section 3303.1 directs that the property owner or their authorized agent is responsible for the development and implementation of a written site safety plan establishing a fire prevention program at the project site.

1.2 The school district, in collaboration with the project contractor, and architect or structural engineer in general responsible charge, is responsible for developing a site fire safety plan addressing the requirements of CFC Chapter 33. As first responders, DSA recommends that development of the plan be in consultation and coordination with the local fire authority.

1.3 Beginning February 1, 2025, a completed site fire safety plan is to be submitted to the DSA in conjunction with the filing of form *DSA 102-IC: Construction Start Notice/Inspection Card Request*, inclusive of completing Section 3 of the form.

1.4 DSA will receive and file the fire safety plan in the project file.

2. SITE FIRE SAFETY PLAN COMPONENTS

At a minimum, the site fire safety plan shall include the following information required in CFC Section 3303.1.1.

1. Name and contact information of site safety director.
2. Documentation of training of the site safety director and fire watch personnel.
3. Procedures for reporting emergencies.
4. Fire department vehicle access routes.
5. Locations of fire protection equipment, including portable fire extinguishers, standpipes, fire department connections and fire hydrants.

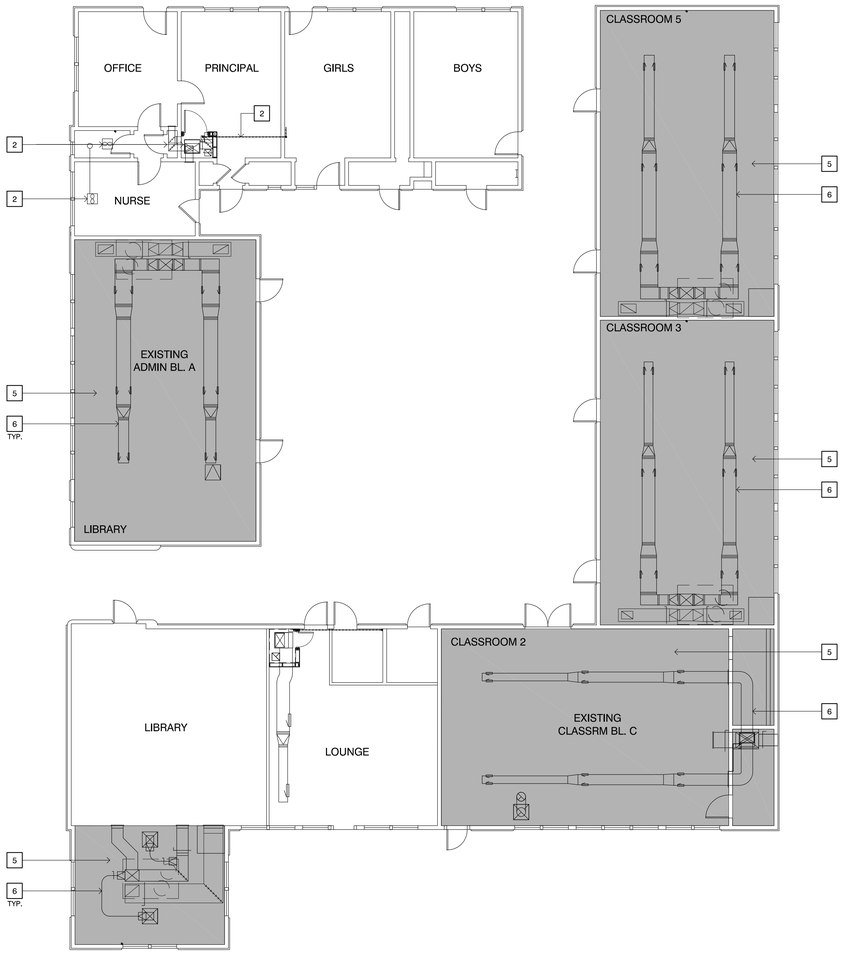
6. Smoking and cooking policies, designated area to be used where approved, and signage locations in accordance with CFC Section 3305.8.
7. Location and safety considerations for temporary heating equipment.
8. Hot work (welding, roofing, etc.) plan.
9. Plans for control of combustible waste.
10. Locations and methods for storage and use of flammable and combustible liquids and other hazardous materials.
11. Provisions for site security.
12. Changes that affect this plan.
13. Other site specific information requested by the local fire authority (LFA).

3. PROJECT PLAN SET COORDINATION

Because the site fire safety plan is submitted after project approval, project plans shall include the following statement in the Notes block, “All construction and demolition shall be in accordance with Chapter 33 of the CBC and CFC, and the written site fire safety plan.”

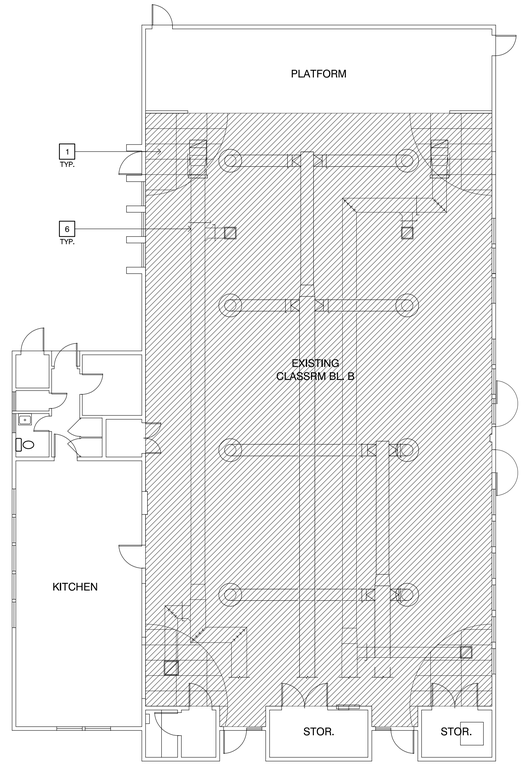
REFERENCES:

California Code of Regulations (CCR) Title 24
- Part 1: California Administrative Code (CAC), Sections 4-331 and 4-406
- Part 2, California Building Code, Chapter 33
- Part 9: California Fire Code (CFC), Chapter 33



1 REFLECTED CEILING PLAN - BLDGS. A & C
SCALE : 1/8" = 1'-0"

NORTH



2 REFLECTED CEILING PLAN - BLDG. B
SCALE : 1/8" = 1'-0"

NORTH

CEILING PLAN KEYNOTES

1. REMOVE (E) CEILING TILES & REPLACE w/ NEW MATCH (E) ADJACENT
2. PATCH & PAINT CEILING AS REQUIRED
3. REMOVE & REPLACE (E) CEILING AS REQ'D. TO ACCESS DUCTS FOR CLEANING & REMOVAL OF DUCT WRAP INSULATION
4. (N) SOFFIT PER 17/A-700
5. (N) 5/8" TYPE X GYP. BRD. CEILING, PAINTED
6. (N) DUCTWORK PER MECH.

CEILING PLAN LEGEND

- EXISTING CEILING TILES TO REMAIN
- REMOVE (E) CEILING TILES & REPLACE w/ NEW MATCH (E) ADJACENT
- (N) SOFFIT PER 17/A-700
- (N) 5/8" TYPE X GYP. BRD. CEILING, PAINTED

CEILING NOTES

1. REFER TO MECHANICAL PLANS FOR DUCTWORK LOCATIONS.
2. CEILING AND GRID SHOWN ARE DIAGRAMMATIC, CONTRACTOR SHALL FIELD VERIFY ACTUAL CONFIGURATION AND REPLACE EXISTING CEILING TILES/FINISH(ES) AS REQUIRED TO COMPLETE THE SCOPE OF WORK.
3. ALL NEW REPLACEMENT CEILING TILES SHALL MATCH EXISTING ADJACENT FINISH, COLOR AND TEXTURE.

VENTURA UNIFIED SCHOOL DISTRICT
2050 GRAND AVENUE, VENTURA, CA 93003

MONTALVO ELEMENTARY SCHOOL
HVAC REPLACEMENT

KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
199 FIGUEROA STREET SUITE 100A VENTURA CA 93001
TELEPHONE (805) 963-1726 WWW.KBZARCH.COM

TODD A. JESPERSEN, A.I.A.
PRINCIPAL-IN-CHARGE

PATRICK B. PANLAGUI
PROJECT MANAGER

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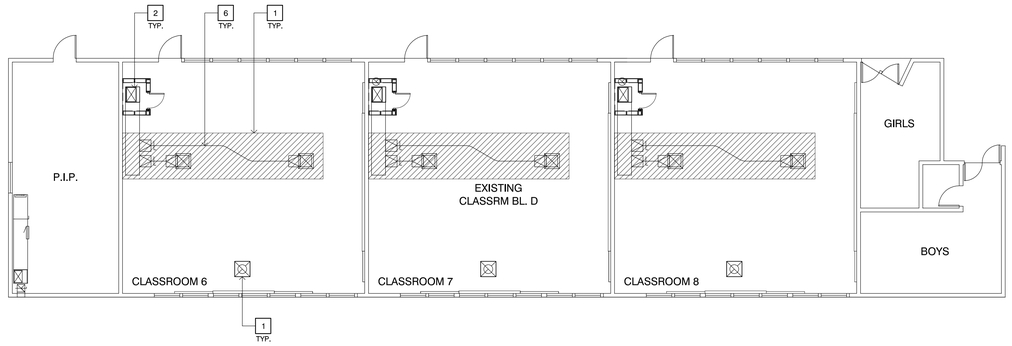
LICENSED ARCHITECT
TODD A. JESPERSEN
No. C-25839
Renewal: 08/30/2026
STATE OF CALIFORNIA

ENGINEER'S STAMP & SIGNATURE

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2	-	-/-/-	XX
1	ADDENDUM 1	1/17/25	PP

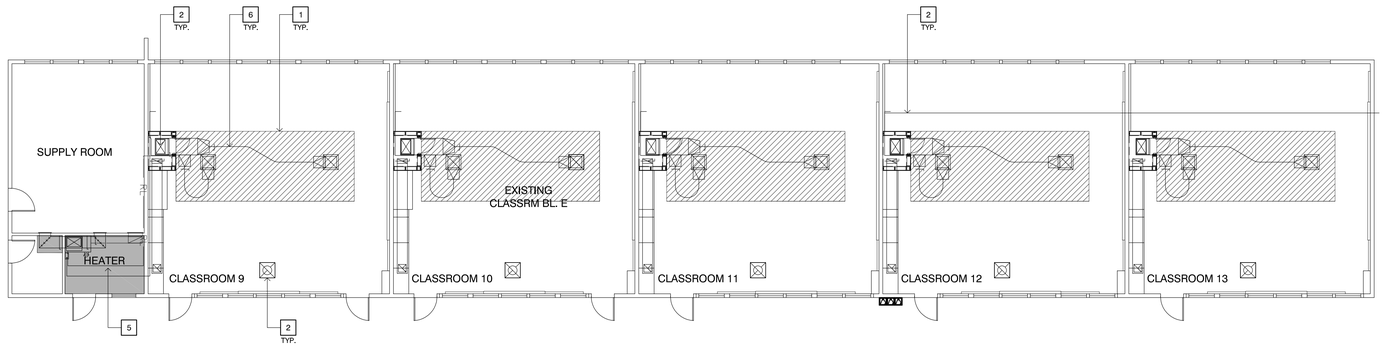
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DATE	10/11/2024		
JOB. NO.	23053		
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SHEET TITLE	REFLECTED CEILING PLAN BLDGS. A, B & C		

SHEET A-600 1



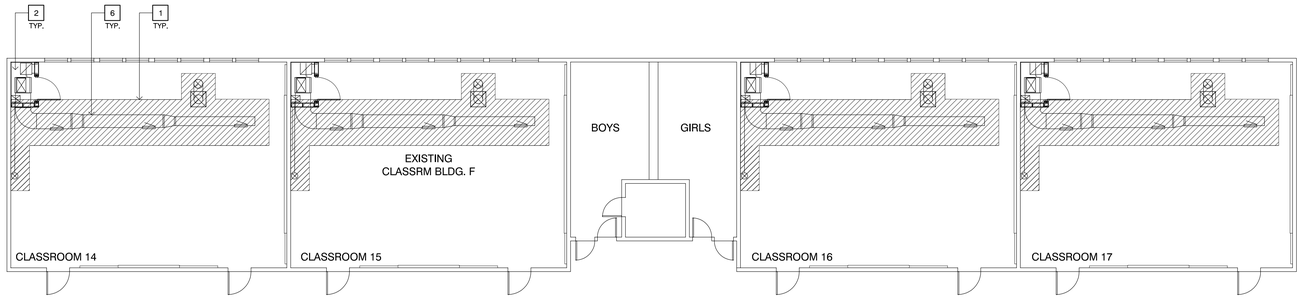
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1 REFLECTED CEILING PLAN - BLDG. D
SCALE : 1/8" = 1'-0"



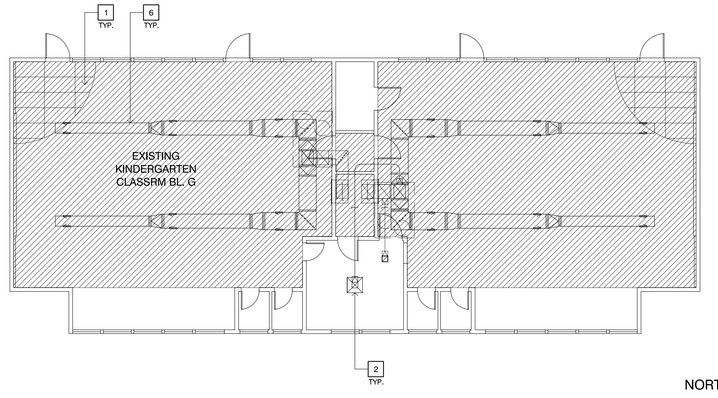
NORTH

2 REFLECTED CEILING PLAN - BLDG. E
SCALE : 1/8" = 1'-0"



NORTH

3 REFLECTED CEILING PLAN - BLDG. F
SCALE : 1/8" = 1'-0"



NORTH

4 REFLECTED CEILING PLAN - BLDG. G
SCALE : 1/8" = 1'-0"

CEILING PLAN KEYNOTES

1. REMOVE (E) CEILING TILES & REPLACE w/ NEW MATCH (E) ADJACENT
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3. REMOVE & REPLACE (E) CEILING AS REQ'D. TO ACCESS DUCTS FOR CLEANING & REMOVAL OF DUCT WRAP INSULATION
4. (N) SOFFIT PER 17/A-700
5. (N) 5/8" TYPE X GYP. BRD. CEILING, PAINTED
6. (N) DUCTWORK PER MECH.

CEILING PLAN LEGEND

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CEILING NOTES

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ARCHITECT'S STAMP & SIGNATURE

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ENGINEER'S STAMP & SIGNATURE

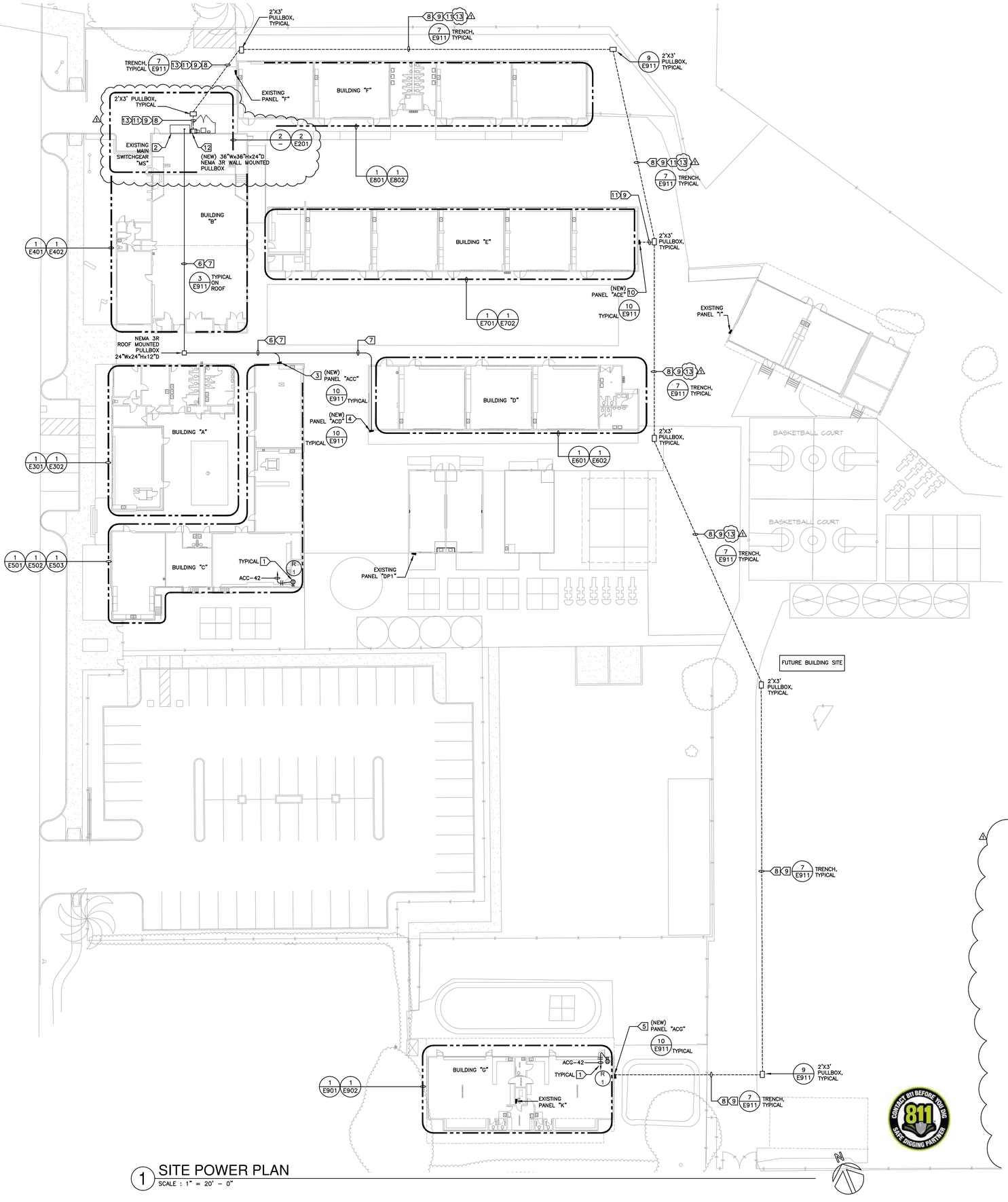
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1	ADDENDUM 1	1/17/25	PP

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CHECKED	TJ		
DATE	10/11/2024		
JOB. NO.	23053		

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SHEET TITLE: REFLECTED CEILING PLAN BLDGS. D, E, F & G

SHEET A-601 1



1 SITE POWER PLAN
SCALE : 1" = 20' - 0"

CONTRACTOR TO INCLUDE IN BID PROPOSAL 120V RECEPTACLE POWER FOR ALL HVAC PELICAN RELAY MODULES, HVAC CONTROL REPEATERS, CONDENSATE PUMPS, ETC. AS REQUIRED ON MECHANICAL PLANS. SEE CONTROL SCHEDULE ON M-002 FOR POWER REQUIREMENTS AND MECHANICAL PLANS FOR DEVICE LOCATIONS.

CONTRACTOR SHALL PROVIDE ELECTRICAL HEAVY DUTY SAFETY DISCONNECTS WITH LOCK-ON DEVICE HARDWARE. CONTRACTOR SHALL PROVIDE LOCKS AND MASTER KEYS TO OWNER'S REPRESENTATIVE.

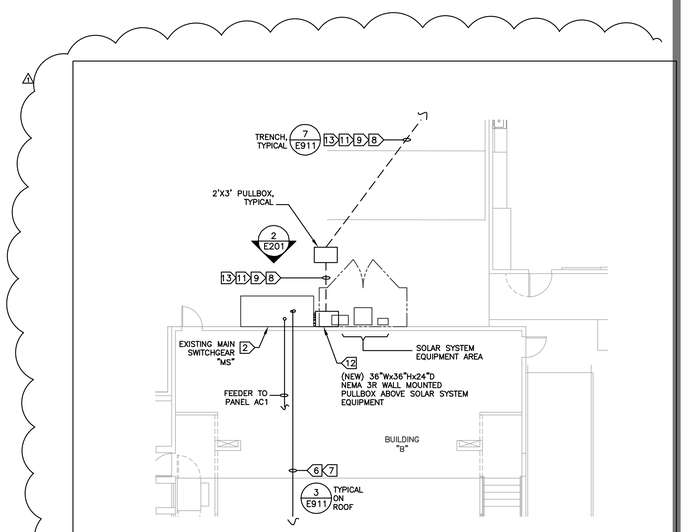
CONTRACTOR SHALL PROVIDE OUTDOOR GFI RECEPTACLES WITH LOCKABLE RGS WEATHERPROOF COVERS, LOCKS, AND MASTER KEYS FOR SCHOOL CUSTODIAN. TYPICAL FOR ALL HVAC MAINTENANCE RECEPTACLES. CONTRACTOR SHALL PROVIDE HUBBELL CAT #GFS5362WA WITH COVER BY TAYMAC CORPORATION EXTRA DUTY METAL IN-USE LOCKABLE #MX3200 OR EQUAL.

SHEET NOTES

1. VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES ON ARCHITECTURAL AND CIVIL PLANS.
2. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID. ROUGH-IN & INSTALLATION.
3. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
4. FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
5. ALL CONDUIT 90° CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
6. VERIFY LOCATION OF ALL EQUIPMENT AND DEVICES ON ARCHITECTURAL AND CIVIL PLANS.
7. MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS & PARKING LOTS FOR 0-600 VOLT SYSTEMS. 48" FOR 600V-25KV SYSTEMS.
8. CONTRACTOR TO PROVIDE GROUND CONDUCTORS IN ALL CONDUITS.
9. 1" CONDUIT MINIMUM UNDERGROUND.
10. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
11. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
12. FIELD CONDITIONS GOVERN DEMOLITION AND NEW CONSTRUCTION. CONTRACTOR SHALL VERIFY ACTUAL CONDITIONS PRIOR TO START OF WORK, ARCHITECT / ENGINEER SHALL BE NOTIFIED OF POSSIBLE FIELD PROBLEMS PRIOR TO DEMOLITION. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE OF WORK BEING PERFORMED. COORDINATE WITH DISTRICT REPRESENTATIVE.
13. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH DIMENSIONED NYLON PULL STRING.
14. SITE INSPECTOR IS TO WITNESS & VERIFY GROUNDING SYSTEM TEST.
15. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION OF TRENCHING, CONTRACTOR SHALL PROTECT ALL EXISTING / REMAINING UTILITIES IN PLACE. CONTRACTOR AT HIS SOLE EXPENSE, SHALL REPAIR ANY UTILITIES SYSTEM DAMAGED DURING CONSTRUCTION.

KEY NOTES

1. PROVIDE RECEPTACLE POWER SUPPLY FOR HVAC NETWORK GATEWAY/REPEATER. HOMERUN 1/2"C.-2#12 & 1#12 GND TO BUILDING PANELBOARD. SEE MECHANICAL PLANS FOR REPEATER LOCATIONS & HVAC SYSTEM CONTROL REQUIREMENTS.
2. EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT TO BE VACUUMED, CLEANED & TORQUED, ALL MISSING FITTINGS & DEADFRONT REPLACED, ETC. FOR A LIKE NEW CONDITION.
3. NEW PANEL "ACC" TO BE WALL MOUNTED. SEE ELECTRICAL SINGLE LINE DIAGRAM ON SHEET E201 FOR FEEDER INFORMATION AND ADDITIONAL REQUIREMENTS.
4. NEW PANEL "ACD" TO BE WALL MOUNTED. SEE ELECTRICAL SINGLE LINE DIAGRAM ON SHEET E201 FOR FEEDER INFORMATION AND ADDITIONAL REQUIREMENTS.
5. NEW PANEL "ACG" TO BE WALL MOUNTED. SEE ELECTRICAL SINGLE LINE DIAGRAM ON SHEET E201 FOR FEEDER INFORMATION AND ADDITIONAL REQUIREMENTS.
6. CONTRACTOR SHALL ROUTE PANELBOARD "ACC" FEEDER ON ROOFTOP AND COVERED WALKWAYS TO NEW PANELBOARD LOCATION. CONTRACTOR SHALL PROVIDE CONDUIT SUPPORTS PER DETAIL 3/E911 AND PAINT CONDUITS TO MATCH SURROUNDING AREAS.
7. CONTRACTOR SHALL ROUTE PANELBOARD "ACD" FEEDER ON ROOFTOP AND COVERED WALKWAYS TO NEW PANELBOARD LOCATION. CONTRACTOR SHALL PROVIDE CONDUIT SUPPORTS PER DETAIL 3/E911 AND PAINT CONDUITS TO MATCH SURROUNDING AREAS.
8. CONTRACTOR SHALL SAW CUT, TRENCH, & PROVIDE NEW FEEDERS TO NEW PANELBOARD "ACG" FROM EXISTING CAMPUS SWITCHBOARD "MS". SEE SINGLE LINE DIAGRAM ON SHEET E201 FOR ADDITIONAL REQUIREMENTS.
9. APPROXIMATE LOCATION OF EXISTING UNDERGROUND POWER SYSTEMS. CONTRACTOR SHALL HIRE DIG ALERT AND FIELD VERIFY EXISTING ELECTRICAL, COMMUNICATION, FIRE ALARM, & OTHER UTILITIES SYSTEMS PRIOR STARTING TRENCH WORK.
10. NEW PANEL "ACE" TO BE WALL MOUNTED, SEE DETAIL 10/E911 ON THIS SHEET. SEE ELECTRICAL SINGLE LINE DIAGRAM ON SHEET E201 FOR FEEDER INFORMATION AND ADDITIONAL REQUIREMENTS.
11. CONTRACTOR SHALL SAW CUT, TRENCH, & PROVIDE NEW FEEDERS TO NEW PANELBOARD "ACE" FROM EXISTING CAMPUS SWITCHBOARD "MS". SEE SINGLE LINE DIAGRAM ON SHEET E201 FOR ADDITIONAL REQUIREMENTS.
12. PROVIDE WALL MOUNTED PULLBOX ADJACENT TO MAIN CAMPUS SWITCHBOARD "MS" FOR NEW PANELBOARD FEEDERS ACE, ACG, & (2)2-1/2"C.O. SPARES. SEE SINGLE LINE DIAGRAM FOR FEEDER INFORMATION. PAINT TO MATCH SURROUNDING AREA. PROVIDE CLOSE NIPPLE CONDUITS INTO SWITCHGEAR ENCLOSURE AS REQUIRED.
13. FROM "MS" CONTRACTOR SHALL SAW CUT, TRENCH, & PROVIDE (2)2-1/2"C.O. SPARES TO PULLBOX SOUTH OF BASKETBALL COURT FOR FUTURE BUILDING SITE.



2 ENLARGED SITE POWER PLAN
SCALE: 1/8"=1'-0"

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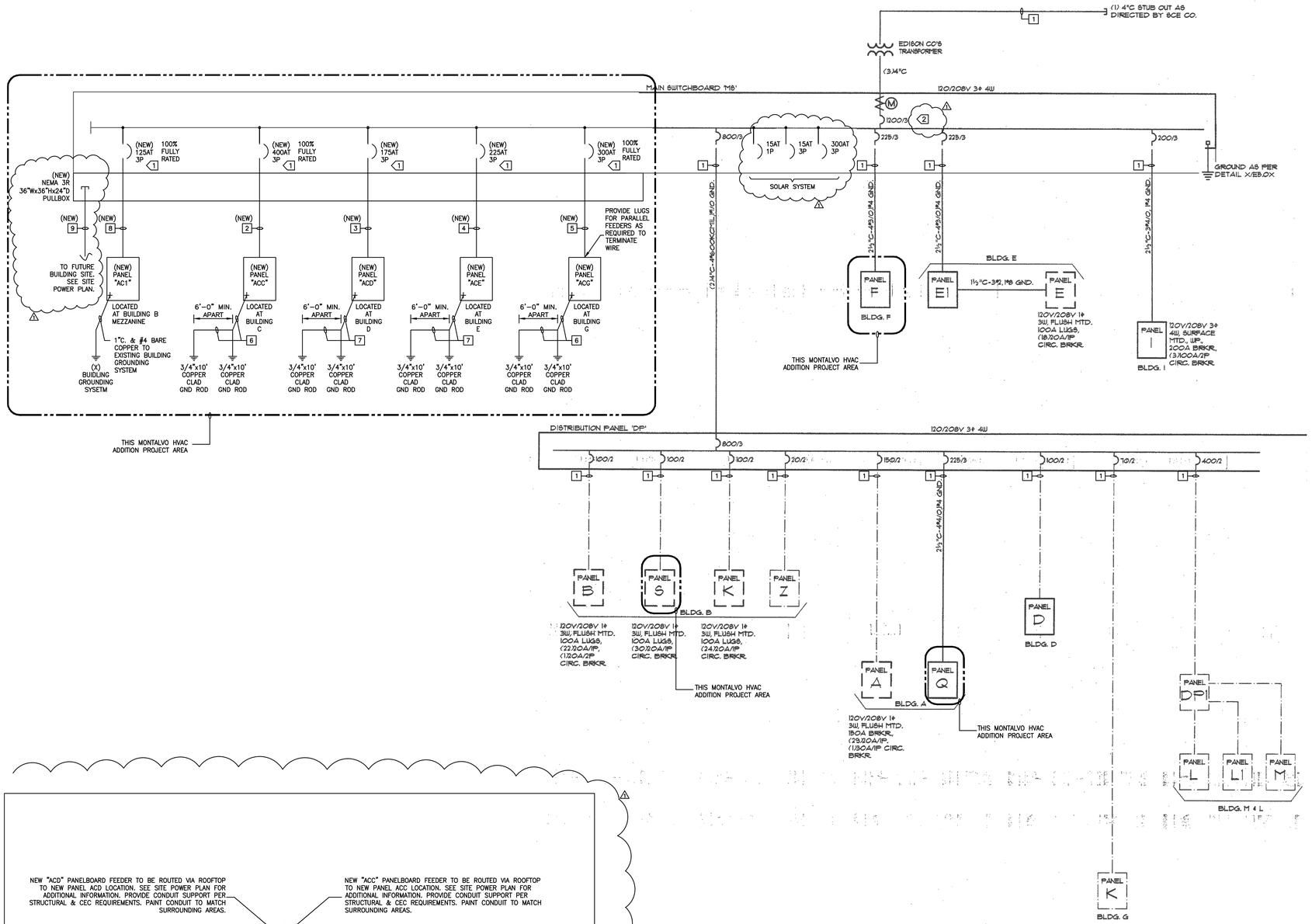
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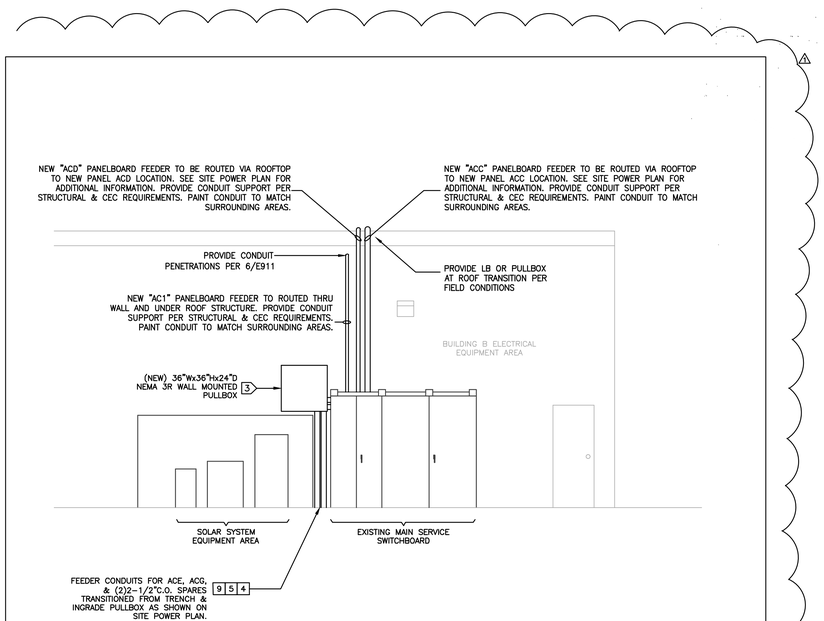
SHEET TITLE: SITE POWER PLAN

SHEET E200



1 ELECTRICAL SINGLE LINE DIAGRAM

SCALE: NONE



2 MAIN SERVICE SWITCHBOARD ELEVATION

SCALE: NONE

FEEDER SCHEDULE

TAG	CONDUIT/CONDUCTOR	FROM	TO	APPROX LENGTH VD	PERCENT VOLT.DROP
1	EXISTING. PROTECT IN PLACE.	–	–	–	–
2	4"C.-4#500 KCMIL & 1#3 KCMIL GND	MS	ACC	200'	1.5%
3	3"C.-4#3/0 KCMIL & 1#1 GND	MS	ACD	280'	1.8%
4	3"C.-4#350 KCMIL & 1#1/0 GND	MS	ACE	350'	1.8%
5	(2)4"C.-4#500 KCMIL & 1#2 GND	MS	ACG	800'	2.0%
6	1"C.-3/0 BARE COPPER GROUND	PNL	GND SYSTEM	–	–
7	1"C.-1/0 BARE COPPER GROUND	PNL	GND SYSTEM	–	–
8	2"C.-4#1 & 1#6 GND	MS	AC1	150'	1.2%
9	(2)2-1/2"C.O. SPARE FOR FUTURE PROJECT	MS	TO FUTURE BLDG SITE	585'	–
10	–	–	–	–	–
11	–	–	–	–	–
12	–	–	–	–	–
13	–	–	–	–	–
14	–	–	–	–	–
15	–	–	–	–	–

SHEET NOTES

1. VERIFY LOCATION OF ALL BUILDINGS AND APPENDITURES ON ARCHITECTURAL AND CIVIL PLANS.
2. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVCES PRIOR TO BID. ROUGH-IN & INSTALLATION.
3. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
4. FIELD VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. SCHEDULE AND COORDINATE ALL SITE WORK WITH OWNER PRIOR TO ANY TRENCHING.
5. ALL CONDUIT 90° CONDUIT BENDS AND RISERS SHALL BE PVC COATED RIGID STEEL.
6. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SITE ELECTRICAL SERVICE REQUIREMENTS WITH SERVING UTILITY.
7. VERIFY LOCATION OF ALL EQUIPMENT AND DEVICES ON ARCHITECTURAL AND CIVIL PLANS.
8. MINIMUM CONDUIT BURIAL DEPTH IS 24", 36" MINIMUM BELOW STREETS & PARKING LOTS FOR 0-600 VOLT SYSTEMS.
9. CONTRACTOR TO PROVIDE GROUND CONDUCTORS IN ALL CONDUITS.
10. 1" CONDUIT MINIMUM UNDERGROUND.
11. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWNGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
12. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.

KEY NOTES

1. FIELD VERIFY AND PROVIDE NEW FEEDER BREAKER IN EXISTING SWITCHBOARD TO MATCH EXISTING MANUFACTURER, AIC RATINGS, ETC. PROVIDE NEW DEAD FRONT MODIFICATIONS, BUSSING, BRACKETS, FITTINGS, CONNECTORS, ETC. AS REQUIRED TO INSTALL NEW FEEDER BREAKER IN EXISTING SWITCHBOARD.
2. VERIFY AND PROVIDE MAIN CIRCUIT BREAKER SETTING AT 1200AMP TRIP. CONTRACTOR SHALL INCLUDE LINE ITEM COSTS IN BID PROPOSAL TO REPLACE EXISTING 1200 AMP TRIP ELEMENT WITH NEW.
3. PROVIDE WALL MOUNTED PULLBOX ADJACENT TO MAIN CAMPUS SWITCHBOARD "MS" FOR NEW PANELBOARD FEEDERS ACE, ACG, & (2)2-1/2"C.O. SPARES. PAINT TO MATCH SURROUNDING AREA. PROVIDE CLOSE NIPPLE CONDUITS INTO SWITCHGEAR ENCLOSURE AS REQUIRED.

LOAD SUMMARY

DESCRIPTION	LOAD
EXISTING "MS" PEAK DEMAND FROM RECORD DRAWINGS @125% 26KVA PER CEC REQUIREMENTS	33 KVA
(X) PANEL Q WITH NEW HVAC LOAD	47 KVA
(X) PANEL F WITH NEW HVAC LOAD	35 KVA
(X) PANEL DP WITH NEW HVAC LOAD	14 KVA
NEW PANEL ACC HVAC LOAD	111 KVA
NEW PANEL ACD HVAC LOAD	32 KVA
NEW PANEL ACE HVAC LOAD	50 KVA
NEW PANEL ACG HVAC LOAD	71 KVA
TOTAL ON MSB (IN AMPS AT 208V, 3Φ)	393 KVA (1092 AMPS)

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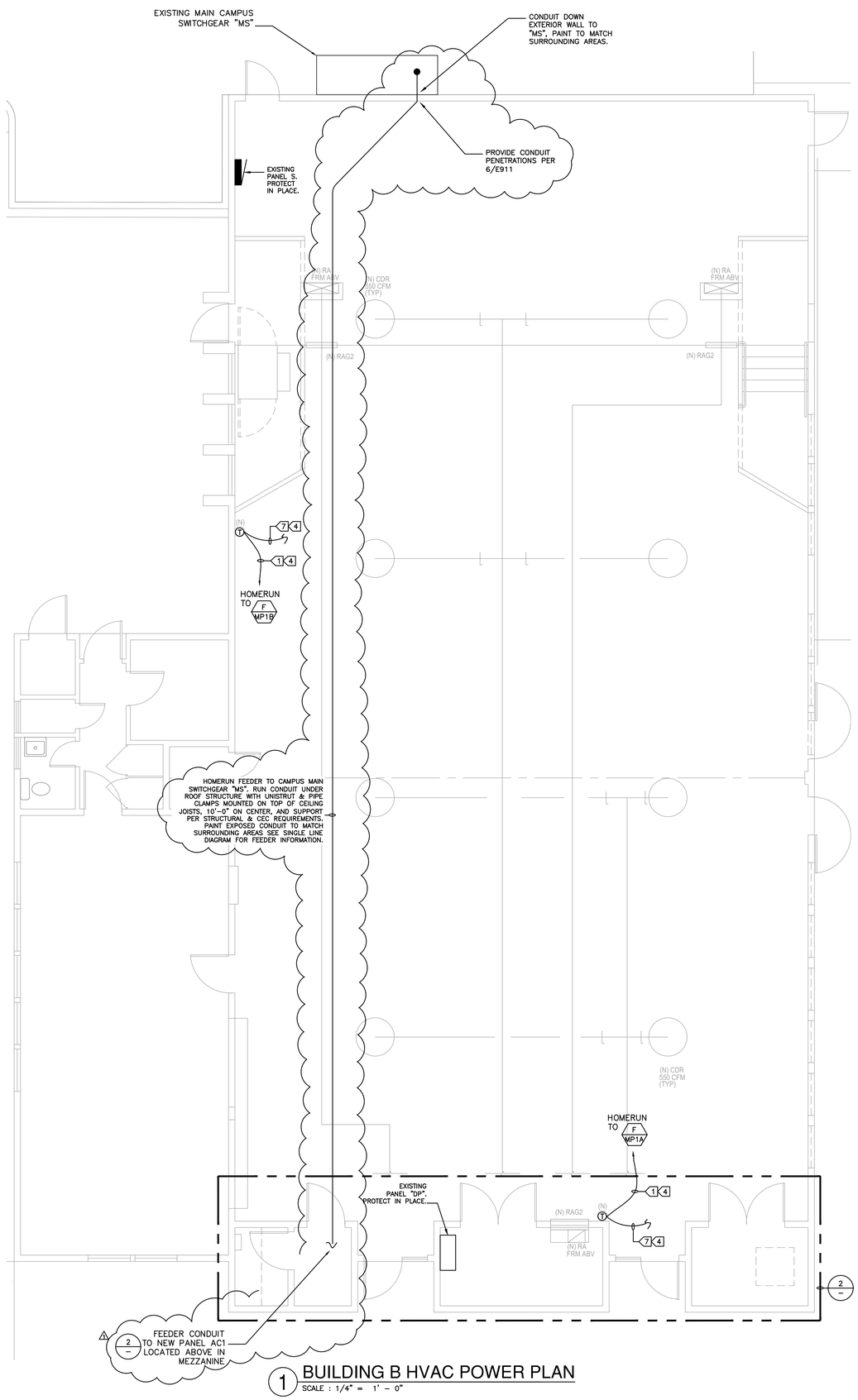
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DATE	10/11/2024		
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SHEET TITLE	ELECTRICAL SINGLE LINE DIAGRAM		

SHEET
E201



1 BUILDING B HVAC POWER PLAN

SCALE : 1/4" = 1' – 0"

CONTRACTOR SHALL PROVIDE ELECTRICAL HEAVY DUTY SAFETY DISCONNECTS FOR ALL HVAC UNITS WITH LOCK–ON DEVICE HARDWARE. CONTRACTOR SHALL PROVIDE LOCKS AND MASTER KEYS TO OWNER'S REPRESENTATIVE.

CONTRACTOR SHALL PROVIDE OUTDOOR GFI RECEPTACLES WITH LOCKABLE RGS WEATHERPROOF COVERS, LOCKS, AND MASTER KEYS FOR SCHOOL CUSTODIAN. TYPICAL FOR ALL HVAC MAINTENANCE RECEPTACLES. CONTRACTOR SHALL PROVIDE HUBBELL CAT #GF5362WA WITH COVER BY TAYMAC CORPORATION EXTRA DUTY METAL IN–USE LOCKABLE #MX3200 OR EQUAL.

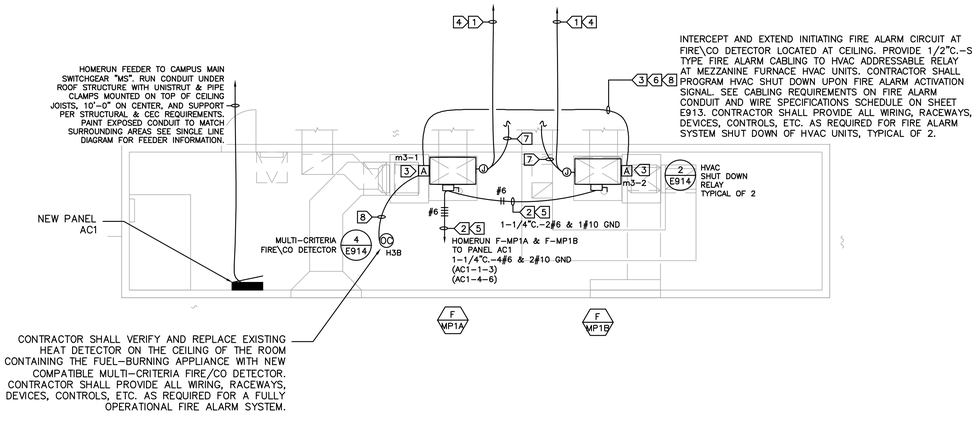
CONTRACTOR TO INCLUDE IN BID PROPOSAL 120V RECEPTACLE POWER FOR HVAC PELICAN RELAY MODULES, HVAC CONTROL REPEATERS, CONDENSATE PUMPS, ETC. AS REQUIRED ON MECHANICAL PLANS. SEE CONTROL SCHEDULE ON M–002 FOR POWER REQUIREMENTS AND MECHANICAL PLANS FOR DEVICE LOCATIONS.

KEY NOTES

1. 1/2"C & HVAC CONTROL CABLING FROM HVAC UNIT TO THERMOSTAT. SEE MECHANICAL PLANS FOR LOCATION AND CABLE REQUIREMENTS. CONTRACTOR SHALL PAINT ELECTRICAL SYSTEMS TO MATCH SURROUNDING AREAS.
2. SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT FOR DISCONNECT, FUSE, FEEDER, ETC. REQUIREMENTS. PROVIDE ALL DEVICES AND CONNECTIONS AS REQUIRED ON MECHANICAL SHOP DRAWINGS AND APPROVED SUBMITTALS. CONTRACTOR SHALL PAINT ELECTRICAL SYSTEMS TO MATCH SURROUNDING AREAS.
3. INTERCEPT AND EXTEND FIRE ALARM INITIATING CIRCUIT AND PROVIDE ADDRESSABLE RELAY AT HVAC UNITS. CONTRACTOR SHALL PROGRAM HVAC UNIT TO SHUT DOWN HVAC UNIT UPON FIRE ALARM ACTIVATION SIGNAL. VERIFY AND PROVIDE A FULLY OPERATIONAL HVAC UNIT SHUT DOWN RELAY FIRE ALARM SYSTEM AND REPROGRAM EXISTING CAMPUS FATC & FACP TO INCORPORATE NEW ADDRESSABLE HVAC RELAYS.
4. PROVIDE WIREMOLD 2300 RACEWAY FROM ABOVE CEILING JUNCTION BOX TO NEW DEVICE LOCATION. RUN WIREMOLD 2300 IN EXPOSED AREAS FROM DROPPED CEILING TO DOWN WALL TO DEVICE LOCATION. CONTRACTOR SHALL PROVIDE ALL RACEWAY, FITTINGS, SUPPORTS, BOXES, DEVICES PLATES, ETC. NECESSARY FOR A COMPLETE AND WORKABLE SURFACE MOUNTED ELECTRICAL RACEWAY SYSTEM. SEE DETAIL 8\E911.
5. RUN ALL BRANCH CIRCUIT WIRING BELOW ROOF STRUCTURE IN ACCESSIBLE CEILING, PROVIDE ALL SUPPORTS, NEW CEILING WIRES, CADDY CLIPS, ETC. AS REQUIRED FOR A COMPLETE RACEWAY SUPPORT SYSTEM. ELECTRICAL CONTRACTOR SHALL RUN ELECTRICAL BRANCH CIRCUITS ADJACENT TO REFRIGERATION LINES.
6. CONTRACTOR SHALL RE–PROGRAM, RE–ADDRESS AND RESTORE A FULLY OPERATIONAL AND COMPLETE FIRE ALARM SYSTEM. CONTRACTOR SHALL PERFORM A CAMPUS WIDE FIRE ALARM TEST AND RECORD DOCUMENTS AFTER FIRE ALARM WORK IS COMPLETED.
7. 1/2"C & HVAC CONTROL CABLING TO PE–1/PT–1/CD–1/CD–1. SEE MECHANICAL PLANS FOR LOCATION AND CABLE REQUIREMENTS. CONTRACTOR SHALL PAINT ELECTRICAL SYSTEMS TO MATCH SURROUNDING AREAS.
8. 1/2"C.– WITH TYPE S FIRE ALARM SYSTEM CABLING.

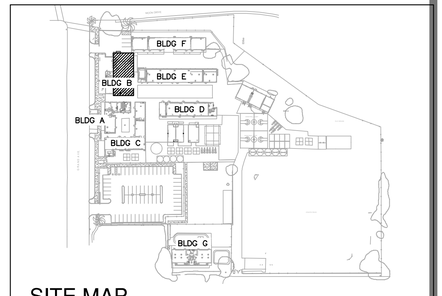
SHEET NOTES

1. FIELD VERIFY MECHANICAL EQUIPMENT LOCATIONS.
2. SEE ELECTRICAL SCHEDULE FOR MECHANICAL EQUIPMENT FOR ELECTRICAL REQUIREMENTS.
3. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES.
4. ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL, 3/4" MINIMUM, AND USE THREADED CONDUIT FITTINGS.
5. THE FINAL CONNECTIONS TO EQUIPMENT SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT. INSTALL WITH ENOUGH SLACK TO PRECLUDE VIBRATION TRANSMISSION. SUPPORT SHALL BE PER N.E.C.
6. PROVIDE WEATHERPROOF AND EXTERIOR RATED DEVICES IN ALL EXTERIOR AREAS.
7. PROVIDE ALL DEVICES AND CONNECTIONS AS REQUIRED ON MECHANICAL CONTRACTOR SHOP DRAWINGS AND APPROVED SUBMITTALS.
8. ALL CONDUIT SHALL BE MOUNTED ON UNISTRUT ON SUPPORTS.
9. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL ELECTRICAL DEVICES PRIOR TO BID, ROUGH –IN, & INSTALLATION.
10. EACH DISCONNECT OR STARTER AND A SPARE SET OF FUSES SHALL BE CONTRACTOR PROVIDED.
11. ALL MECHANICAL EQUIPMENT CONTROL WIRING SHALL BE RUN IN 1/2" CONDUIT MINIMUM U.O.N.
12. FINAL CONNECTION TO HVAC EQUIPMENT AND ANY VIBRATING MACHINERY SHALL USE LIQUID TIGHT FLEXIBLE CONDUIT.
13. CONTRACTOR SHALL VERIFY LOCATION & REQUIREMENTS OF ALL DEVICES REQUIRING ELECTRICAL CONNECTION PRIOR TO BID PROPOSAL, ROUGH–IN AND FINISH.
14. CONTRACTOR SHALL, IN ROUTING ALL CIRCUITS, INCREASE CONDUCTOR & CONDUIT SIZE TO ALLOW FOR VOLTAGE DROP SHOULD THE CONTRACTOR EXCEED ROUTING INDICATED ON DRAWING. ENGINEER OF RECORD MUST BE NOTIFIED PRIOR TO ANY DEVIATIONS FROM APPROVED PLAN CHECK (PERMIT SET) DRAWINGS.
15. COORDINATE WORK WITH OTHER TRADES. OBTAIN ALL DRAWINGS THAT WILL REQUIRE COORDINATION AND PROVIDE ALL ELECTRICAL CONNECTIONS, DEVICES, AND WIRING REQUIRED WHETHER SHOWN ON ELECTRICAL DRAWINGS OR NOT.
16. CONTRACTOR SHALL FURNISH AND INSTALL PULL BOXES AS REQUIRED TO INSTALL CONDUCTORS PER CONDUCTOR MANUFACTURERS RECOMMENDATIONS, PER THE NATIONAL ELECTRICAL CODE AND PER LOCAL AUTHORITIES HAVING JURISDICTION.
17. PROVIDE CODE SIZE EQUIPMENT GROUNDING CONDUCTORS IN ALL OCCUPIED CONDUITS.
18. VERIFY LOCATION OF ALL DEVICES ON ARCHITECTURAL PLANS.
19. VERIFY THE EXACT ROUTING OF ALL EXPOSED CONDUIT WITH OWNER PRIOR TO INSTALLATION. PAINT EXPOSED CONDUITS TO MATCH SURROUNDING AREAS.
20. SEE DETAILS 5&6 ON SHEET E911 FOR ALL WALL PENETRATION REQUIREMENTS. EXTERIOR POWER AND HVAC CONTROLS CONDUITS CONTRACTOR SHALL PAINT CONDUIT, JUNCTION BOXES, CONDUIT SUPPORTS, ETC. TO MATCH SURROUNDING AREAS.



2 BUILDING B HVAC MEZZANINE POWER PLAN

SCALE : 1/4" = 1' – 0"



SITE MAP

SCALE: NONE

MONTALVO ELEMENTARY SCHOOL HVAC REPLACEMENT

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