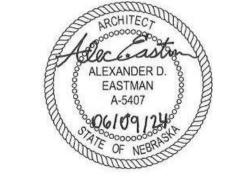
COORDINATING PROFESSIONAL

I, ALEXANDER EASTMAN, AM THE COORDINATING PROFESSIONAL ON THE OPS MILLS ELECTRICAL SERVICE REPLACEMENT PROJECT.



4311 N 30TH STREET OMAHA, NE 68111

OPS MILLS ELECTRICAL SERVICE REPLACEMENT

BCDM NO: 5444-02

PROJECT TEAM

Omaha Public Schools 4041 North 72nd Street Omaha, NE 68134-4470 Phone: (402) 299-0180

ARCHITECT: **BCDM Architects** 1015 North 98th Street, Suite 300 Omaha, NE 68114 Phone: (402) 391-2211 Fax (402) 391-8721

ELECTRICAL ENGINEER: Morrissey Engineering 4940 North 118th Street Omaha, NE 68164 Phone: (402) 491-4144 Fax: (402) 491-4146

SCHEDULE OF DRAWINGS

ARCHITECTURAL

BASEMENT FLOOR PLAN

ELECTRICAL

ELECTRICAL SCHEDULES AND DIAGRAMS

CODES:

2018 International Building Code 2018 Omaha Plumbing Code and Chapter 49 Omaha Municipal Code 2012 International Mechanical Code and Chapter 40 Omaha Municipal Code

2018 International Existing Building Code 2017 National Electrical Code

2012 Life Safety Code and 2012 International Fire Code

2018 International Energy Conservation Code 2010 ADA Standards for Accessible Design Nebraska Accessibility Guidelines (NAG)

PROJECT ADDRESS: 4311 N 30TH STREET OMAHA, NE 6811

PROJECT LOCATION



VICINITY MAP

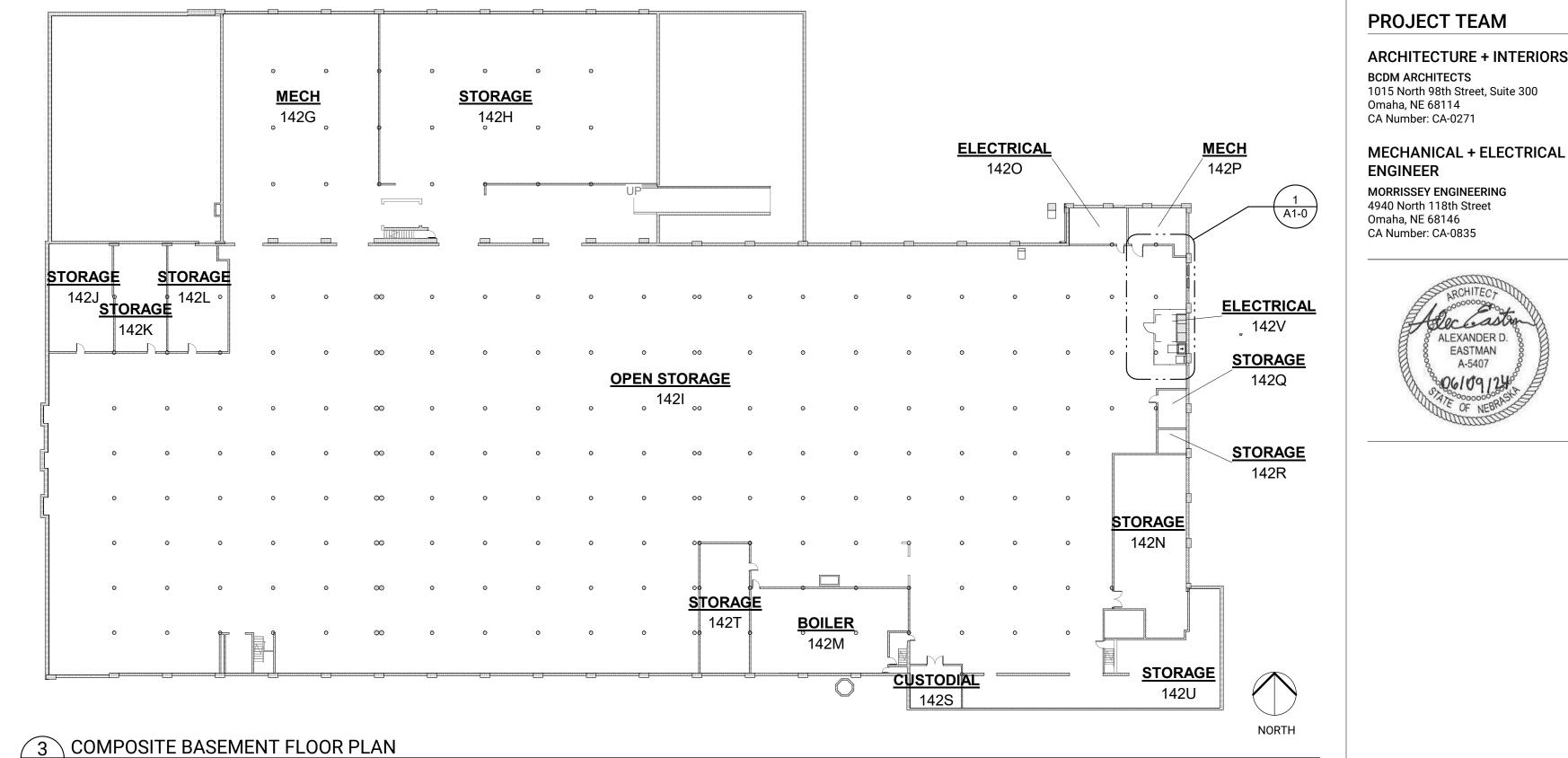
NOT TO SCALE

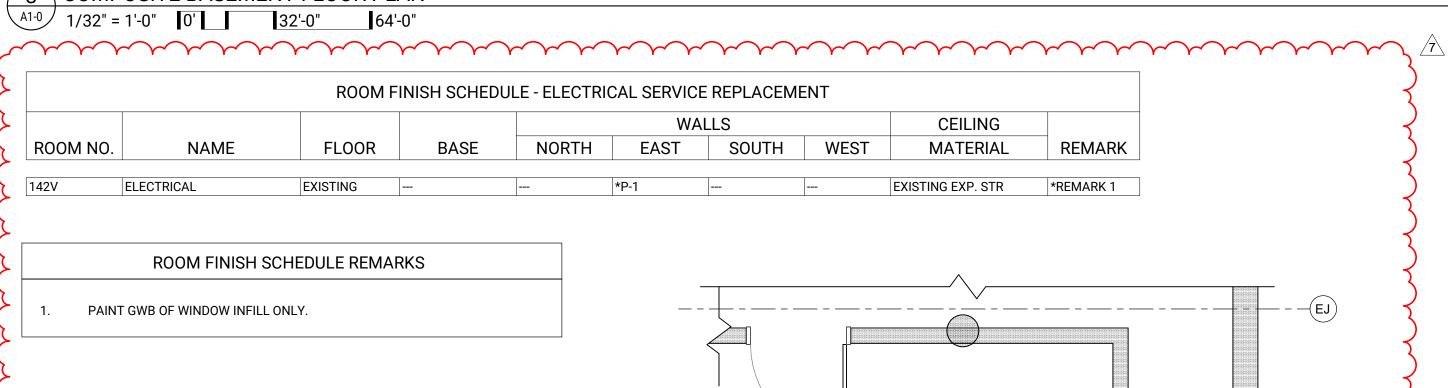
GENERAL NOTES

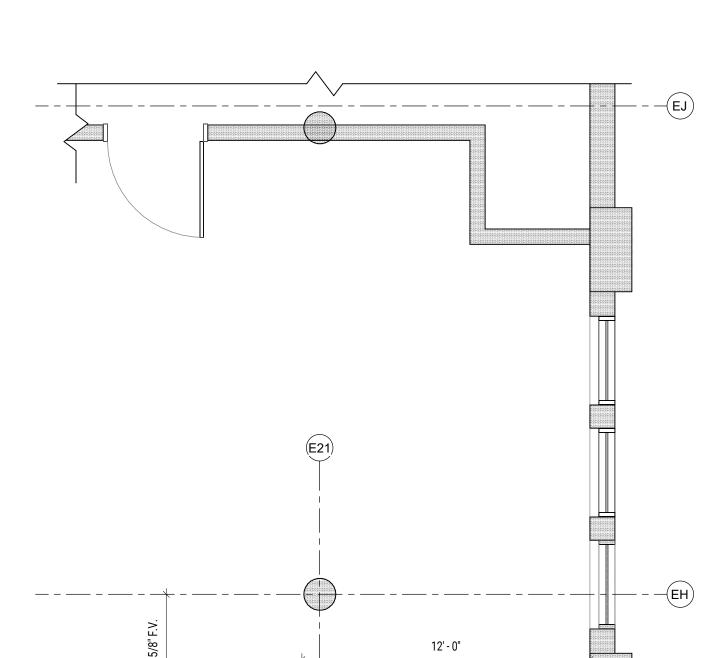
IN THE SPECIFICATIONS. THE WORK OUTLINED IN THE DRAWING AND SPECIFICATIONS SHALL BE INCORPORATED INTO THE GENERAL CONTRACT. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS, METHODS AND MEANS REQUIRED TO EXECUTE THE GENERAL CONTRACT AND PROVIDE A FINISHED PRODUCT

- CONTRACTOR SHALL COORDINATE LOCATION FOR ALL MECHANICAL AND ELECTRICAL ITEMS WITH GENERAL CONSTRUCTION. REVIEW ANY DISCREPANCIES WITH ARCHITECT PRIOR TO INSTALLATION AND/OR FABRICATION.
- PROTECT ALL SITE LOCATIONS THAT ARE NOT DESIGNATED FOR REMOVAL. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- ALL DIMENSIONS ARE TO FACE OF FINISHED WALL, UNLESS NOTED OTHERWISE. REVIEW PLACEMENT OF WALLS WITH DETAILS AND FURNISHINGS, CASEWORK, OR PRIOR TO CONSTRUCTION AND/OR FABRICATION. ALL DIMENSIONS ARE FOR BIDDING PURPOSES ONLY. ACTUAL FIELD DIMENSIONS SHALL BE VERIFIED PRIOR TO SUBMITTING SHOP DRAWINGS, ORDERING RELATED MATERIALS, DEMOLITION OR
- CONTINUOUS WOOD BLOCKING HORIZONTALLY AND VERTICALLY, BEHIND ALL WALL HUNG EQUIPMENT, ACCESSORIES, COUNTERS AND ANY OTHER BUILDING MATERIALS FOR THESE ITEMS PRIOR TO COVERING THE STRUCTURE. PROVIDE WOOD BLOCKING IN WALLS FOR OWNER PROVIDED AND INSTALLED ARTWORK, COORDINATE LOCATIONS
- THE OWNER HAS CONTRACTED SEPARATELY FOR THE EQUIPMENT SPECIFICALLY NOTED AS N.I.C. ON THE DRAWINGS. VERIFY SIZE AND LOCATION PRIOR TO LAYING OUT 24. COORDINATE SCOPE OF DEMOLITION WITH NEW CONSTRUCTION.
- CONTRACTOR SHALL CONTACT THE ARCHITECT IN THE EVENT THAT UNFORESEEN
- ALL METAL STUDS ARE 3 5/8" UNLESS NOTED OTHERWISE.
- ALL MATERIALS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL MECHANICAL OPENINGS AND OTHER OPENINGS OR PENETRATIONS THROUGH RATED WALLS SHALL BE SEALED TO MAINTAIN RATINGS.
- ALL WORK SHALL COMPLY WITH APPLICABLE CODES, REGULATIONS, AND
- ALL STUDS SHALL BE HELD AT LEAST 1/4" AWAY FROM STRUCTURAL STEEL COLUMNS. SEE STRUCTURAL FOR CONTROL JOINTS AT INTERIOR SLABS-ON-GRADE.
- IN SOME INSTANCES, THERMAL AND SOUND BATT INSULATION HAS BEEN OMITTED FROM THE DETAILS FOR CLARITY. SEE WALL TYPES.
- THE CONTRACTOR SHALL PERFORM ALL TESTS AS SPECIFIED OR AS NECESSARY TO DEMONSTRATE COMPLETE SATISFACTORY INSTALLATIONS OF ALL SYSTEMS

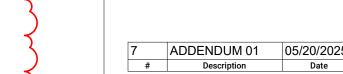
- IF INSTANCES ARISE DURING CONSTRUCTION OF THE PROJECT THAT REQUIRE PENETRATIONS OF STRUCTURAL MEMBERS DUE TO METHODS OF ROUTING DUCTS, PENETRATION OF STRUCTURAL MEMBERS SHALL BE BORNE BY THE CONTRACTOR REQUIRING THE PENETRATION. BEFORE PENETRATION THROUGH A STRUCTURAL MEMBER CAN BE MADE, THE CONTRACTOR SHALL INFORM THE ARCHITECT OF HIS/HER INTENT AND SHALL AWAIT INSTRUCTIONS FROM THE ARCHITECT AS TO EXACT PLACEMENT OR, AND DETAILS FOR, SUCH PENETRATIONS.
- ALL CEILING HEIGHTS LISTED ON REFLECTED CEILING PLAN ARE FROM THE FINISH FLOOR OF THE LISTED ROOM UNLESS NOTED OTHERWISE.
- ALL ANGLES ON PLAN ARE 90 DEGREES OR 45 DEGREES UNLESS NOTED OTHERWISE.
- 19. TYPICALLY OFFSET ELECTRICAL BOXES INSTALLED ON OPPOSITE SIDES OF A
- AT THE LARGE SCALE COLUMN PLAN DETAILS, WALL TYPES ARE INDICATED. FOR CLARITY, IN SOME INSTANCES, NOT ALL STUDS AND/OR FURRING ARE SHOWN ON THE DETAIL. CONTRACTOR SHALL FRAME USING NORMAL FRAMING METHODS AND SHALL ALSO COMPLY WITH THOSE OUTLINED IN THE SPECIFICATIONS.
- CONTRACTOR SHALL FIELD VERIFY ALL SITE CONDITIONS FOR WORKABILITY, ADJACENT CONDITIONS. EFFECTS AND ACCESSIBILITY. CONTRACTOR SHALL FIELD
- CONTRACTOR TO PATCH ALL HOLES (NEW & EXISTING) IN RATED WALLS ABOVE CEILING AS REQUIRED TO MAINTAIN OR PROVIDE RATING INDICATED.
- 25. PROTECT ALL EXISTING MATERIALS AND EQUIPMENT TO REMAIN.
- 26. PROVIDE DUST PROTECTION AS REQUIRED TO ISOLATE CONSTRUCTION AREAS. DUST PROTECTION SHALL BE 3 5/8" METAL STUD FRAMING WITH 5/8" GWB BOTH SIDES, WITH TAPED JOINTS AT RATED CONDITIONS AND 5/8" GWB ON OWNER OCCUPIED SIDE WITH UNTAPPED JOINTS AT NON-RATED CONDITIONS. CONTRACTOR RESPONSIBLE FOR CLEANING AREAS SOILED BY CONSTRUCTION
- SHALL PATCH, REPAIR, AND ADJUST AS REQUIRED TO ACHIEVE THIS FINISHED PRODUCT. CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WORK AFFECTED OR DAMAGED BY DEMOLITION TO MATCH NEW CONSTRUCTION. FINISH
- WHENEVER THE CONTRACTOR ENCOUNTERS MATERIAL THAT COULD POSSIBLY BE ASBESTOS OR CONTAIN ASBESTOS, THE CONTRACTOR SHALL STOP WORK AND CONTACT THE ARCHITECT IMMEDIATELY FOR DIRECTION. DO NOT DISTURB THE MATERIAL IN ITS LOCATION. CONTRACTORS SHALL AND MUST COORDINATE REMOVAL OF ANY ITEMS SUSPECTED OF CONTAINING ASBESTOS WITH THE OWNER'S ABATEMENT CONTRACTOR.







ELECTRICAL



OPS MILLS ELECTRICAL SERVICE REPLACEMENT

4311 N 30TH STREET OMAHA, NE 68111

BASEMENT FLOOR PLAN

CONSTRUCTION DOCUMENTS

BCDM NO. 5444-02

09 JUNE 2024

SELECTIVE DEMOLITION SEE FLOOR PLAN GENERAL NOTES FOR ADDITIONAL INFORMATION



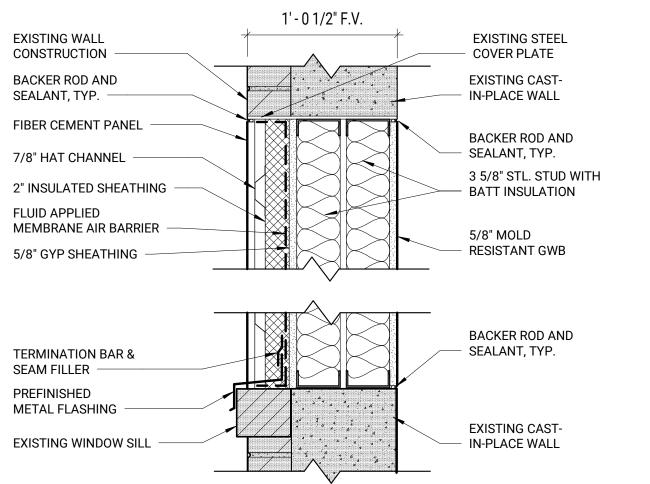


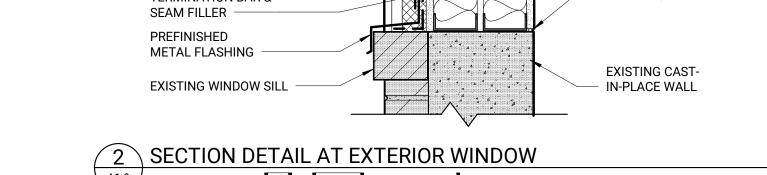


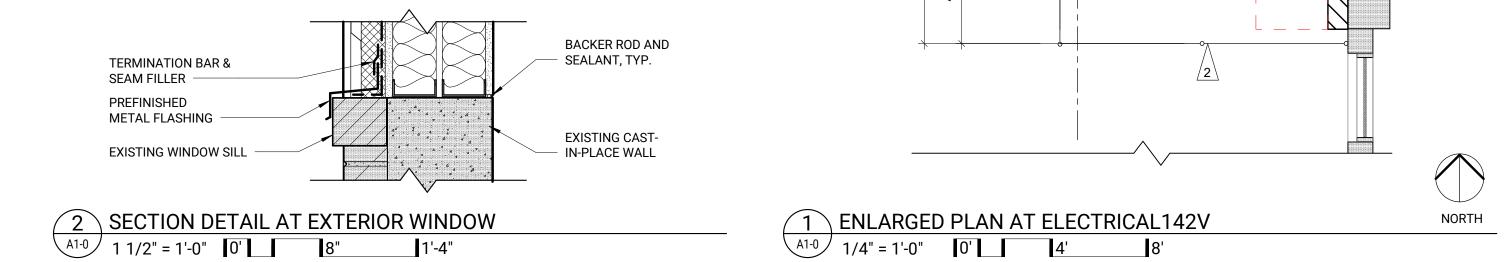
- ALL ITEMS HIGHLIGHTED IN RED IN THE SELECTIVE DEMOLITION PHOTOS ARE TO BE DEMOLISHED AND REMOVED BY THE CONTRACTOR. SEE FLOOR PLAN FOR ADDITIONAL INFORMATION REGARDING OPENING INFILLS.
- ALL ANGLES ON PLAN ARE 90 DEGREES OR 45 DEGREES UNLESS NOTED OTHERWISE

ARCHITECTURAL FLAG NOTES FLAG NOTES APPLICABLE TO SHEET A1-0

- 1 REMOVE WINDOW FRAME AND ASSOCIATED GLAZING IN ITS ENTIRETY. PREP
- 2 METAL CHAIN LINK FENCING, SEE SPEC SECTION 32 31 13.
- METAL CHAIN LINK DOOR, SEE SPEC SECTION 32 31 13.







KEYNOTES

morrissey engineering inc

4940 North 118th Street

Omaha, NE 68164 P: 402.491.4144

Nebraska COA Number: CA-0835

www.morrisseyengineering.com

to verification of clearance for all trades.

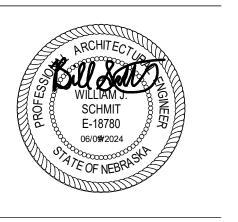
- E105 PROVIDE LITHONIA 'CSS L96 AL04 MVOLT 40K 80CRI IE7WCP' LIGHT FIXTURE. CONNECT TO EXISTING BASEMENT LIGHTING CICRUIT AND SWITCHING.
- E106 CONNECT RECEPTACLE TO NEAREST CONVENIENCE RECEPTACLE CIRCUIT. E511 REMOVE CONDUITS/FEEDERS TO OVERHEAD TAP BOX, OVERHEAD TAP BOX AND DISTRIBUTION BLOCKS, AND CONDUIT/FEEDERS TO FUSED
- E512 REMOVE FUSED DISCONNECTS AND TURN OVER TO OWNER. REMOVE CONDUITS/FEEDERS FROM DISCONNECTS TO OVERHEAD JUNCTION BOX ON CEILING LOCATED APPROXIMATELY IN FRONT OF NEW SWITCHBOARD LOCATION. USE EXISTING SPLICE BOX TO REFEED PANEL HPP, XFMR T-PP1, RTU-1, AND AC-1.

DISCONNECTS.



PROJECT ARCHITECTURE + INTERIORS **BCDM ARCHITECTS** 1015 North 98th Street, Suite 300 Omaha, NE 68114 MECHANICAL + ELECTRICAL **ENGINEER** MORRISSEY ENGINEERING 4940 North 118th Street

Omaha, NE 68146 CA Number: CA-0835



| 22 | Addendum 01 | 05/20/2025 | | Description | Date | **OPS MILLS**

> SERVICE REPLACEMENT

ELECTRICAL

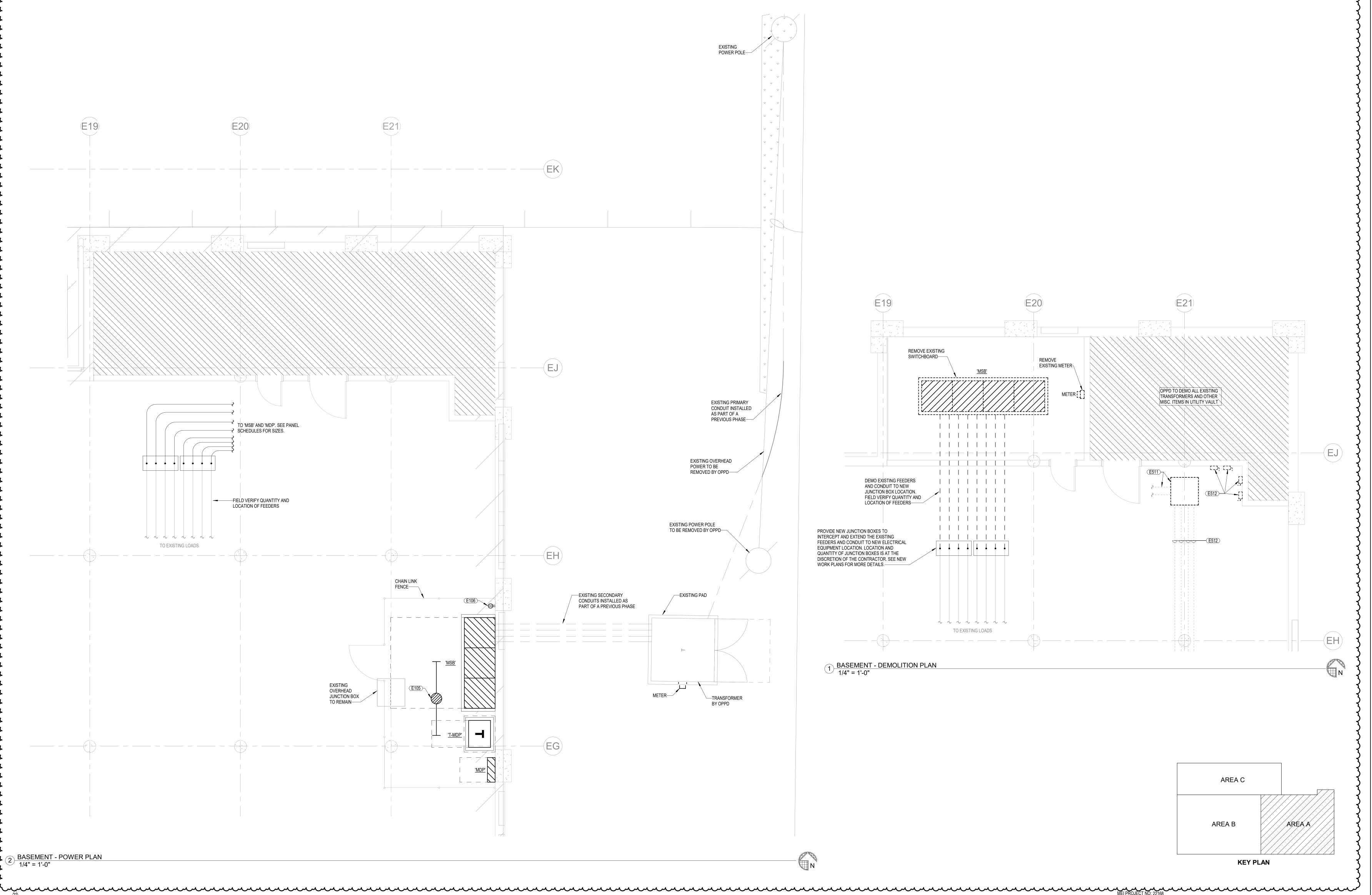
4311 N 30TH STREET OMAHA, NE 68111

OMAHA PUBLIC

ELECTRICAL PLANS

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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 CONSTRUCTION DOCUMENTS provide clearances required for operation, maintenance, and codes and verify non-interference with other work. do not fabricate prior BCDM NO. 5444-00 09 JUNE 2024



LEFT BINDING EDGE

	DRY-TYPE	TRANSF	ORMER SC	HEDULE -	SERVICE I	REPLACEN	IENT
			VOL	TAGE		GROUNDING	
K	TRANSFORMER TYPE	kVA	PRIMARY	SECONDARY	MOUNTING	ELECTRODE	REMARKS
ь	CENERAL DURDOSE	225 K\/Δ	480 \/	2087/1207	FLOOR	#3/0_1"C	

LEFT BINDING EDGE

	DISTRIBUTION PANEL SCHEDULE							
Panel: MDP Remarks: MAIN CKT. BKR. W/GND. BAR		Rating: 800 A Volts: 120/208 Phas 3			A.I.C. Rating: 10000			
Op	tions:	Wires: 4			S.E. Rated: NO			
КТ	NAMEPLATE DESIGNATION		RATIN	IG	FEEDERS			
1	WEST X BSMT LTG SW		200 A	3	3#3/0, #6G-2"C			
2	EAST WALL BSMT LTG		200 A	3	3#3/0, #6G-2"C			
3	NEW LINE OFFICE LTG		200 A	3	3#3/0, #6G-2"C			
4	UNKNOWN LOAD		200 A	3	3#3/0, #6G-2"C			
5	ELEVATOR (NOTE 4)		0 A	3				
6	SPARE		200 A	3				
7	SPACE		100 A	3				
8	SPACE		100 A	3				

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.

FEEDER. PROVIDE SHUNT TRIP BREAKER WITH AUXILIARY CONTACTS WIRED IN PARALLEL WITH THE

CONTACTS ON THE HOISTWAY DISCONNECT.

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.
4. VERIFY EXISTING FUSE SIZING AND PROVIDE SAME AMPERAGE CIRCUIT BREAKER AND MATCHING

F	Panel: MSB Rat	ing: 2000 A	A.I.C. Rating: 35000		
Rem		olts: 480/277 as 3	7	•	
Options: WITH INTEGRAL SPD AND OWNER METERING		res: 4		S.E. Rated: YES	
СКТ	NAMEPLATE DESIGNATION	RATIN	IG	FEEDERS	
1	TRANSFORMER 'T-MDP'	400 A	3	3#500KCMIL, #3G-3"C	
2	AREA A MAIN	400 A	3	4#600KCMIL, #3G-3"C	
3	AREA B MAIN (XFMR 'T-HB1')	400 A	3	4#600KCMIL, #3G-3"C	
4	AREA C MAIN	400 A	3	4#600KCMIL, #3G-3"C	
5	SPACE	400 A	3		
6	PANEL MA1	200 A	3	4#3/0,#6G-2"C	
7	PANEL MB1	200 A	3	4#3/0,#6G-2"C	
8	PANEL MC1	200 A	3	4#3/0,#6G-2"C	
9	PRINTING AND PUBLISHING 'T-PP1'	175 A	3	3#2/0,#6G-2"C	
10	PANEL HPP	200 A	3	4#3/0,#6G-2"C	
11	RTU-1	100 A	3	3#1,#6G-1-1/2"C	
12	BOILER RM MAIN	100 A	3	4#2,#8G-1-1/2"C	
13	SPARE	125 A	3		
14	AC-1	100 A	3	3#6,#10G-1"C	
15	SPARE	100 A	3		
16	SPACE	100 A	3		
17	SPACE	100 A	3		

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 3. PROVIDE AN ARC ENERGY REDUCING MAINTENANCE SWITCH FOR EACH CIRCUIT BREAKER FRAME SIZE 1200 AMPS AND LARGER.
 4. PROVIDE GFPE PROTECTION FOR MAIN CIRCUIT BREAKER.

- E501 PROVIDE JUNCTION BOX/BOXES TO INTERCEPT AND EXTEND EXISTING
 OVERHEAD CONDUITS AND FEEDERS TO NEW ELECTRICAL EQUIPMENT.
 LOCATIONS AND QUANTITY OF SPLICE BOXES ARE AT THE DISCRETION OF
 THE CONTRACTOR. SEE PANEL SCHEDULES FOR CONDUIT AND FEEDER
- E502 PROVIDE 3-1/2" THICK CONCRETE HOUSEKEEPING PAD WITH 3/4" CHAMFER EDGE AROUND ALL SIDES EXCEPT THOSE ABUTTING A WALL.
- E511 REMOVE CONDUITS/FEEDERS TO OVERHEAD TAP BOX, OVERHEAD TAP BOX AND DISTRIBUTION BLOCKS, AND CONDUIT/FEEDERS TO FUSED DISCONNECTS.

 E512 REMOVE FUSED DISCONNECTS AND TURN OVER TO OWNER, REMOVE
- E512 REMOVE FUSED DISCONNECTS AND TURN OVER TO OWNER. REMOVE CONDUITS/FEEDERS FROM DISCONNECTS TO OVERHEAD JUNCTION BOX ON CEILING LOCATED APPROXIMATELY IN FRONT OF NEW SWITCHBOARD LOCATION. USE EXISTING SPLICE BOX TO REFEED PANEL HPP, XFMR T-PP1, RTU-1, AND AC-1.

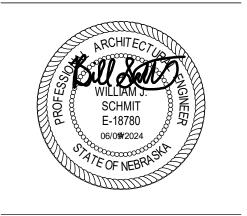


PROJECT TEAM

ARCHITECTURE + INTERIORS
BCDM ARCHITECTS
1015 North 98th Street, Suite 300
Omaha, NE 68114

MECHANICAL + ELECTRICAL
ENGINEER

MORRISSEY ENGINEERING
4940 North 118th Street
Omaha, NE 68146
CA Number: CA-0835



 COPPER FEEDER SCHEDULE

 FEEDER
 WIRE AND CONDUIT

 30-4
 4-#10, #10 G - 3/4"C.

 70-3
 3-#4, #8 GND - 1-1/4"C.

 150-3
 3-#1/0, #6 G - 1-1/2"C.

 150-4T
 4-#1/0, #6 G - 2"C.

 175-3
 3-#2/0, #6 G - 2"C.

 200-4
 4-#3/0, #6 G - 2-1/2"C.

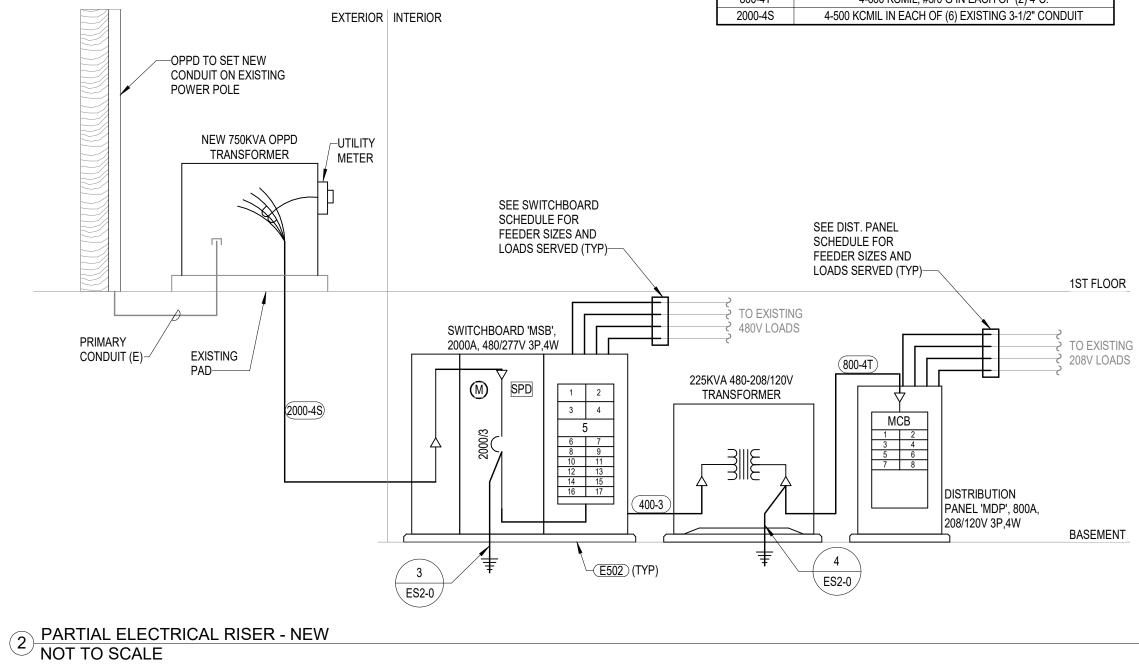
 400-3
 3-600 KCMIL, #3 G - 3"C.

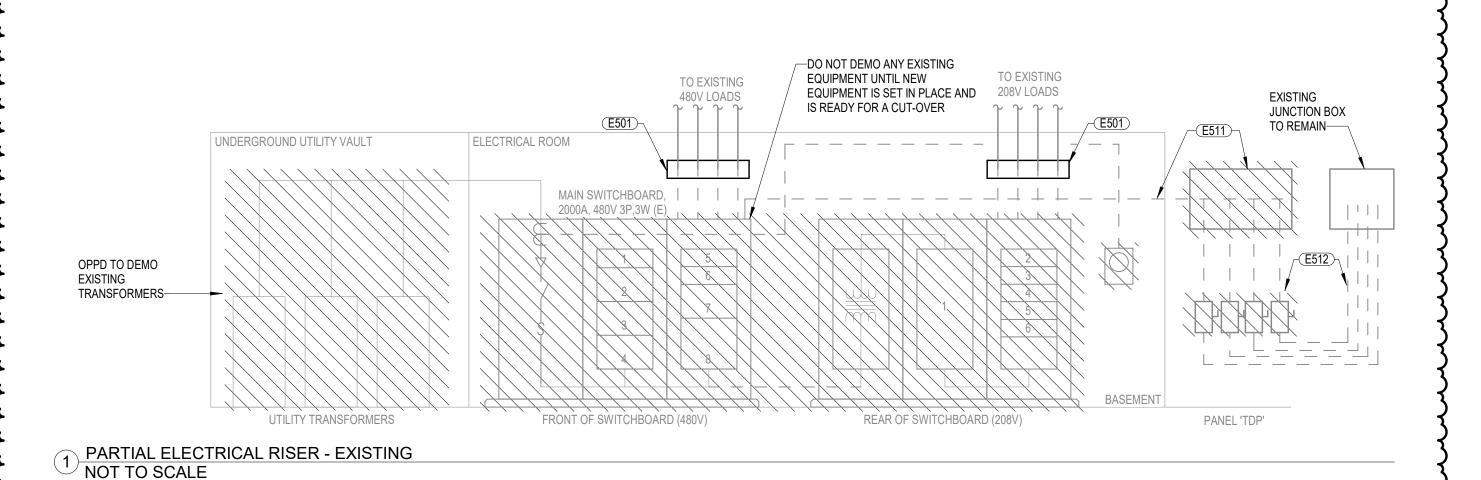
 400-4T
 4-600 KCMIL, #1/0 G - 4"C.

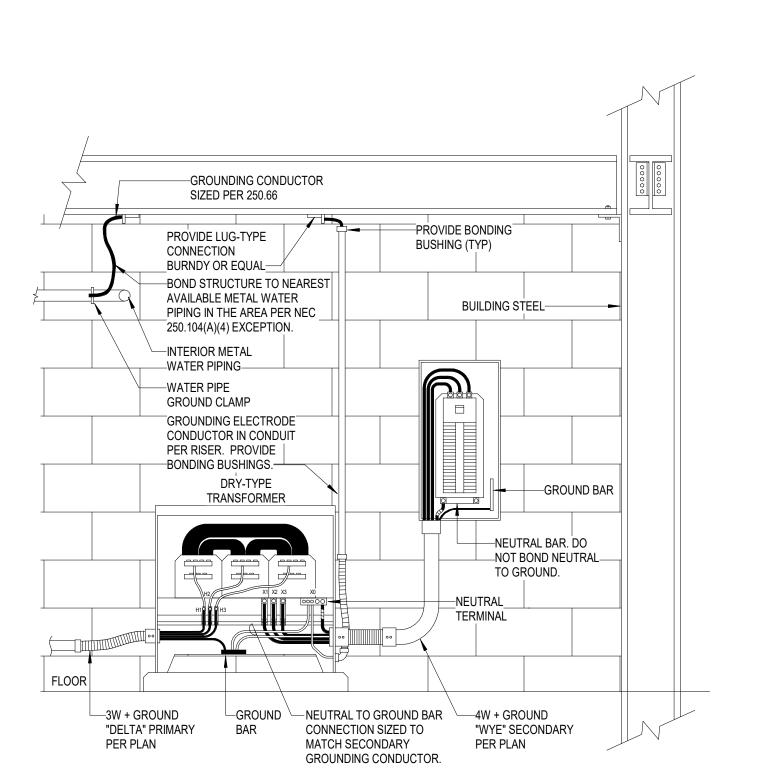
 600-4
 4-400 KCMIL, #1 G IN EACH OF (2) 3-1/2" C.

 800-4T
 4-600 KCMIL, #3/0 G IN EACH OF (2) 4"C.

 2000-4S
 4-500 KCMIL IN EACH OF (6) EXISTING 3-1/2" CONDUIT



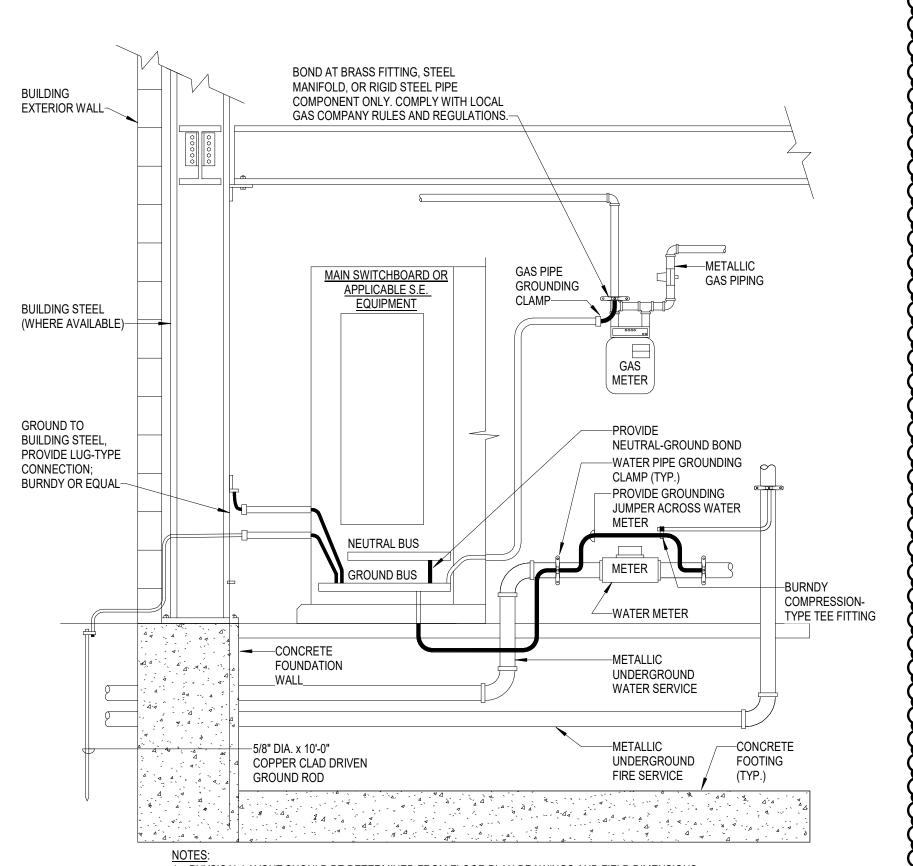




NOTE: PHYSICAL LAYOUT SHOULD BE DETERMINED FROM FLOOR PLAN DRAWINGS AND FIELD DIMENSIONS.

DRY-TYPE TRANSFORMER GROUNDING

4 DETAIL NOT TO SCALE



NOTES:

1. PHYSICAL LAYOUT SHOULD BE DETERMINED FROM FLOOR PLAN DRAWINGS AND FIELD DIMENSIONS.

ALL GROUNDING CONDUCTORS SIZED IN ACCORDANCE WITH NEC TABLE 250.66.
 ALL CLAMPS AND FITTINGS SHALL BE UL LISTED FOR THE APPLICATION.

MAIN SERVICE GROUNDING DETAIL NOT TO SCALE

MEI PROJECT NO: 22168

MEI PROJECT NO: 22168

MEI PROJECT NO: 22168

mechanical | electrical | lighting | technology | commissioning

4940 North 118th Street
Omaha, NE 68164
P: 402.491.4144
Nebraska COA Number: CA-0835

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ES2-0

ELECTRICAL

DIAGRAMS

SCHEDULES AND

22 Addendum 01
Description

OPS MILLS

SERVICE

4311 N 30TH STREET

OMAHA PUBLIC

OMAHA, NE 68111

ELECTRICAL

REPLACEMENT

CONSTRUCTION DOCUMENTS
BCDM NO. 5444-00
09 JUNE 2024