

**Addendum No. 2**  
**March 15, 2017**

Project: **Canton High School Performing Arts Center Addition**  
Canton, South Dakota

Arch Project No.: 2621

Architect: Architecture Incorporated

Construction Manager at Risk: Henry Carlson Construction, LLC

Letting: **Thursday, March 23, 2017**  
**2:00 PM**  
Henry Carlson Construction, LLC  
1205 West Russell Street  
Sioux Falls, SD 57104

Scope of this Addendum:

To all bidders and all others to whom drawings and specifications have been issued by Architecture Incorporated.

Acknowledge receipt of this addendum by listing its number and date in the bidders Form of Proposal. Failure to do so may subject bidder to disqualification. This Addendum forms a part of the Contract Documents. It modifies them as follows:

**GENERAL ITEMS:**

- 1) SECTION 00-04 – INDIVIDUAL SCOPE OF WORK
  - a) By receipt of this addendum all bidders shall replace original *Bid Package #1.09A – Drywall and EIFS* bid scope description with revised Bid Package #1.09A – Drywall and EIFS (Revised Addendum #2) bid scope description attached to the end of this addendum; 2 pages total.
- 2) SECTION 095113 – ACOUSTICAL PANEL CEILINGS
  - a) CLARIFICATION: Species of wood veneer for ceiling panels specified as ACT-4 (ref: ADD Alternate No. 3) shall be **WALNUT**.
- 3) SECTION 123216 – INSTITUTIONAL CASEWORK
  - a) CLARIFICATION: **ALL** plastic-laminate and solid-surface countertops shall be fabricated with rounded edge; disregard all references to edge banded countertops.
  - b) CLARIFICATION: **ALL** plastic-laminate and solid-surface countertops shall receive applied backsplashes - wherever backsplashes are indicated; disregard all references to integral backsplashes.

4) SHEET 4.61 – GROUND LEVEL - FURNITURE PLAN

- a) Replace General Furniture Plan Note ‘*Note b.*’ with the following:

***REMOVABLE SEATS (SHOWN IN GRAYSCALE) SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR PER HIS BASE BID. REMOVABLE SEAT UNITS SHALL BE FINISHED TO MATCH FIXED SEATING UNITS - AS SPECIFIED PER SECTION 126100.***

5) SHEET 4.62 – MEZZANINE – CONTROL ROOM - FURNITURE PLAN

- a) Replace General Furniture Plan Note ‘*Note b.*’ with the following:

***REMOVABLE SEATS (SHOWN IN GRAYSCALE) SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR PER HIS BASE BID. REMOVABLE SEAT UNITS SHALL BE FINISHED TO MATCH FIXED SEATING UNITS - AS SPECIFIED PER SECTION 126100.***

6) SHEET 4.63 – BALCONY LEVEL - FURNITURE PLAN

- a) Replace General Furniture Plan Note ‘*Note b.*’ with the following:

***REMOVABLE SEATS (SHOWN IN GRAYSCALE) SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR PER HIS BASE BID. REMOVABLE SEAT UNITS SHALL BE FINISHED TO MATCH FIXED SEATING UNITS - AS SPECIFIED PER SECTION 126100.***

7) SHEET 6.13 – BALCONY LEVEL REFLECTED CEILING PLAN

- a) Modify the length, width, and spacing of the southernmost (i.e. – nearest Grid 3) row of ‘*acoustic clouds*’ as indicated per supplemental architectural drawing SD-1 (dated 3-15-17) which is attached to the end of this addendum.
- i) Coordinate ‘*acoustic cloud*’ modifications with mechanical, electrical and audio-visual subcontractors as necessary.

**MECHANICAL ITEMS:**

1) SECTION 230800 – VENTILATION AND AIR CONDITIONING

- a) Reference SUBSECTION 1.06 – ROOFTOP AIR HANDLING UNIT:

- i. **Delete:** “Treadplate” requirement.
- ii. **Revise:** Stainless steel coil casing to galvanized steel.

- b) Reference SUBSECTION 1.17 – PACKAGED SCREW CHILLER:

- i. **Add:** The chiller shall be able to control to a discharge chilled water setpoint.
- ii. **Revise:** Sound performance data.

<b>SOUND POWER LEVELS (In Accordance with ARI 370) – Octave Band Center Frequency, Hz</b> ( Equipped with Ultra Quiet Fans, Acoustic Sound Blanket kit and Perimeter Sound Kit )										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	LWA
100.0	95.0									94
75.0	80.0									91
50.0	65.0									85
25.0	55.0									83

<b>SOUND PRESSURE LEVELS in dB at 30.0 (ft.) **</b> ( Equipped with Ultra Quiet Fans, Acoustic Sound Blanket kit and Perimeter Sound Kit )										
Load %	Ambient (°F)	63	125	250	500	1K	2K	4K	8K	dBA
100.0	95.0									66
75.0	80.0									63
50.0	65.0									55
25.0	55.0									53

\*\* Chiller is assumed to be a point source on a reflecting (hemispherical radiation)

2) SECTION 230900 – AUTOMATIC TEMPERATURE CONTROL/BAS

a) Reference SUBSECTION 1.21 – SEQUENCE OF OPERATIONS:

i. Chiller Control:

1. **Add:** In the ice making mode the BAS shall monitor the CHS and CHR to the ice tanks and shall stage the chiller down as the CHS and CHR differential begins to come together to maximize ice storage.

3) SHEET 8.10 – LEGENDS AND SCHEDULES

- a) Air Cooled Chiller Schedule: Reference supplemental mechanical drawing Sheet R8.10, dated 3-15-17, attached to the end of this addendum for Air Cooled Chiller Schedule revisions.
- b) RAHU Schedule: Add to Remarks: *Provide adapter curb to mate to existing curb and have piping vestibules. RAHU's shall have factory installed VFD's and be wired for single point power connection.*

## ELECTRICAL ITEMS:

### 1) SECTION 260933 – THEATRICAL DIMMING CONTROLS

- a) CLARIFICATION: The intelligent breaker system specified in Article 2.06 is for the theatrical lighting relay panel “R”.
- b) The emergency lighting transfer system (ELTS) is not required for this project as the emergency lighting is fed from panel “EH” through relay panel “RP”. Delete the provision of this component from the specification.
- c) Add the provision of a house lighting feed-thru relay panel “RP”. The relay panel shall be ETC ERP24-FT12-NET-LVD.
- d) Add the provision of a DMX Emergency Bypass Controller. The controller shall be ETC DEBC-6.

### 2) SECTION 287210 – FIRE ALARM

- a) The fire alarm system shall accept a mic/line level input from the existing school intercom system for all-call (emergency) paging announcements in the performing arts center addition. Coordinate the interface with the existing intercom system supplier.

### 3) SHEET 9.13 – ORIENTATION PLAN – ELECTRICAL

- a) The existing school intercom system shall be interfaced with the fire alarm system to broadcast all-call (emergency) paging announcements over the voice evacuation system in the performing arts center addition. Coordinate the interface with the fire alarm system supplier.

### 4) SHEET 9.32 – GROUND LEVEL – LIGHTING

- a) Room 122: Provide connection to the index strip lighting fixtures (provided by the rigging contractor) at the outrigger batten located at the east wall (see elevation on sheet 10.21). Connect to LP3-23 and provide a dimmer switch at the east side of door 122-3 for control.
- b) CLARIFICATION: Room 122: The type “TB1” luminaires at the south wall of the stage area shall be connected to the type “TS” luminaires at the front of the seating area.
- c) Room 129: Connect the switch shown east of the type “V10” luminaire to the east “V10” luminaire. Provide a switch at the west side of the west type “V10” luminaire and connect to the west “V10” luminaire.

### 5) SHEET 9.33 – GROUND LEVEL – POWER & SIGNAL

- a) Room 101: Floor boxes shall be equal to Steel City #664-CST-SW-ALM.
- b) Room 102: Provide power connections to the power assist doors at doors 102-2 and 102-4 (connect to LP1-1). Provide rough-in for an exterior card reader and door strike at door 102-2. Install and provide connections to the power assist door pushbutton operators. Coordinate locations of the pushbutton operators and the card reader with the architect.

- c) Room 118: The note at the floor box with the isolated ground receptacle on the stage only applies to the two floor boxes on the stage.
- d) Room 127: Delete the intercom paging trumpet.
- e) Room 129: Provide an additional 120V/20A branch circuit from panel “LP3” (circuit #22) to serve the plug strips at the makeup area (one dedicated circuit for each makeup station).
- f) Room 130: Both fire alarm notification devices shall be speaker/strobes.
- g) Room 133: Both fire alarm notification devices shall be speaker/strobes.

6) SHEET 9.34 – CONTROL ROOM – LIGHTING

- a) Room 205: Connect the two type “TA1” luminaires to the type “TB1” luminaire below on ground level.
- b) Room 206: The two switches at the east wall shall be dimmer switches, delete the switches at the west wall.
- c) Room 206A: Delete the two switches at the west wall.
- d) Room 209: The type “H” luminaire at the entry to the house seating area shall be connected to the other type “H” luminaires hallway 207 that are connected to the emergency lighting circuit.

7) SHEET 9.35 – CONTROL ROOM – POWER & SIGNAL

- a) Room 206: Provide a ceiling mounted TV outlet (note #3) and an isolated ground ceiling mounted duplex receptacle at the projector location (see AV drawings). Connect the duplex receptacle to AV-2.
- b) Room 206: Provide a fourplex isolated ground receptacle at the east end of the north wall (see sheet 11.02 for location). Connect to AV-11.
- c) Room 206A: Delete the TV outlet. Move the isolated ground fourplex receptacle to the east of the shown location so it is located at sound rack #2 (see sheet 11.02 for location). The circuit shall be routed through the power sequencer.
- d) Rooms 206 and 206A: Provide a fourplex receptacle in room 206A adjacent to the communications outlet on the north wall. Connect the fourplex receptacle (not circuited on drawing) in room 206, the added fourplex receptacle in room 206A and the duplex receptacle (not circuited on drawing) in room 206A to LP1-2.
- e) Room 210: Add a fire alarm speaker/strobe at south wall.
- f) Room 210: Add a TV outlet (note #3) at the sound rack at the north wall. Note that the sound rack (rack #1) and power sequencer (Lyntech Relay Panel) shall be located as shown on this sheet (not where shown on sheet 11.02).

- g) Room 210: See sheet 11.51. for circuits feeding receptacles at the sound rack that are to be routed through the power sequencer (six of the circuits).
- h) Room 213: Delete the intercom paging trumpets.
- 8) SHEET 9.36 – BALCONY LEVEL – LIGHTING
  - a) Balcony Seating: For clarification, the type “TS” luminaire at the east house seating area with the DN designation shall be connected to the type “TB1” luminaire shown on sheet 9.32 at the southeast entry to the house seating area.
- 9) SHEET 9.39 – FOLLOW SPOT – POWER & SIGNAL
  - a) Room 402: Delete the emergency lighting transfer system “ELTS”. The added DMX emergency bypass controller shall locate at that location.
  - b) Room 402: The home run circuits from the DMX emergency transfer device, emergency bypass detection kit, and house light relay panel shall be as detailed on the theatrical lighting control riser diagram and revised panelboard schedules issued with this addendum. The dimming equipment rack “DER” shall be fed from feed-thru lugs on panel LP1 in lieu of from a 225A/3P circuit breaker in panel LP1.
- 10) SHEET 9.50 – GRID LEVEL – ELECTRICAL
  - a) 6 GRID LEVEL – POWER & SIGNAL: Change the 18 each termination boxes at the center area of the grid iron with the “D” designation (shown with one dimming circuit) to type “E” termination box associated with the type “E” plug box detail on sheet 9.75.
- 11) SHEET 9.60 – ENLARGED PLANS – ELECTRICAL
  - a) Note #9: The new circuit breaker shall be 70A/3P in lieu of 60A/3P.
  - b) Note #10: The new circuit breaker shall be 60A/3P in lieu of 30A/1P.
- 12) SHEET 9.70 – SCHEDULES & DETAILS
  - a) All bidders shall replace original electrical drawing Sheet 9.70 with *revised* Sheet 9.70 (dated 3-15-17) that is attached to the end of this addendum. *Revised* Sheet 9.70 has updated panelboard schedules shown; disregard electrical Item #7 issued per Addendum #1.
- 13) SHEET 9.71 – SCHEDULES & DETAILS
  - a) All bidders shall replace original electrical drawing Sheet 9.71 with *revised* Sheet 9.71 (dated 3-15-17) that is attached to the end of this addendum. *Revised* Sheet 9.71 has updated panelboard schedules shown; disregard electrical Item #8 issued per Addendum #1.
- 14) SHEET 9.72 – SCHEDULES & DETAILS
  - a) All bidders shall replace original electrical drawing Sheet 9.72 with *revised* Sheet 9.72 (dated 3-15-17) that is attached to the end of this addendum. *Revised* Sheet 9.72 shows a revised power riser diagram; disregard electrical Item #9 issued per Addendum #1.

15) SHEET 9.73 – SCHEDULES & DETAILS

a) Equipment Schedule:

- i. Item #1 (chiller CH-1) will have a MCA of 460 amps in lieu of 396 amps. The main disconnect switch shall be fused at 600 amps in lieu of 500 amps.
- ii. Item #26 (pump P-8) shall be 20HP in lieu of 10HP.
- iii. Item #27 (pump P-9) will be 25HP in lieu of 20HP.

16) SHEET 9.76 – THEATRICAL LIGHTING DETAILS

- a) All bidders shall replace electrical drawing Sheet 9.76 that was issued with Addendum #1 with *revised* electrical drawing Sheet 9.76 (dated 3-15-17) that is attached to the end of this addendum. *Revised* Sheet 9.76 has revised theatrical lighting control riser diagram and revised electrical notes.

**GENERAL APPROVALS:**

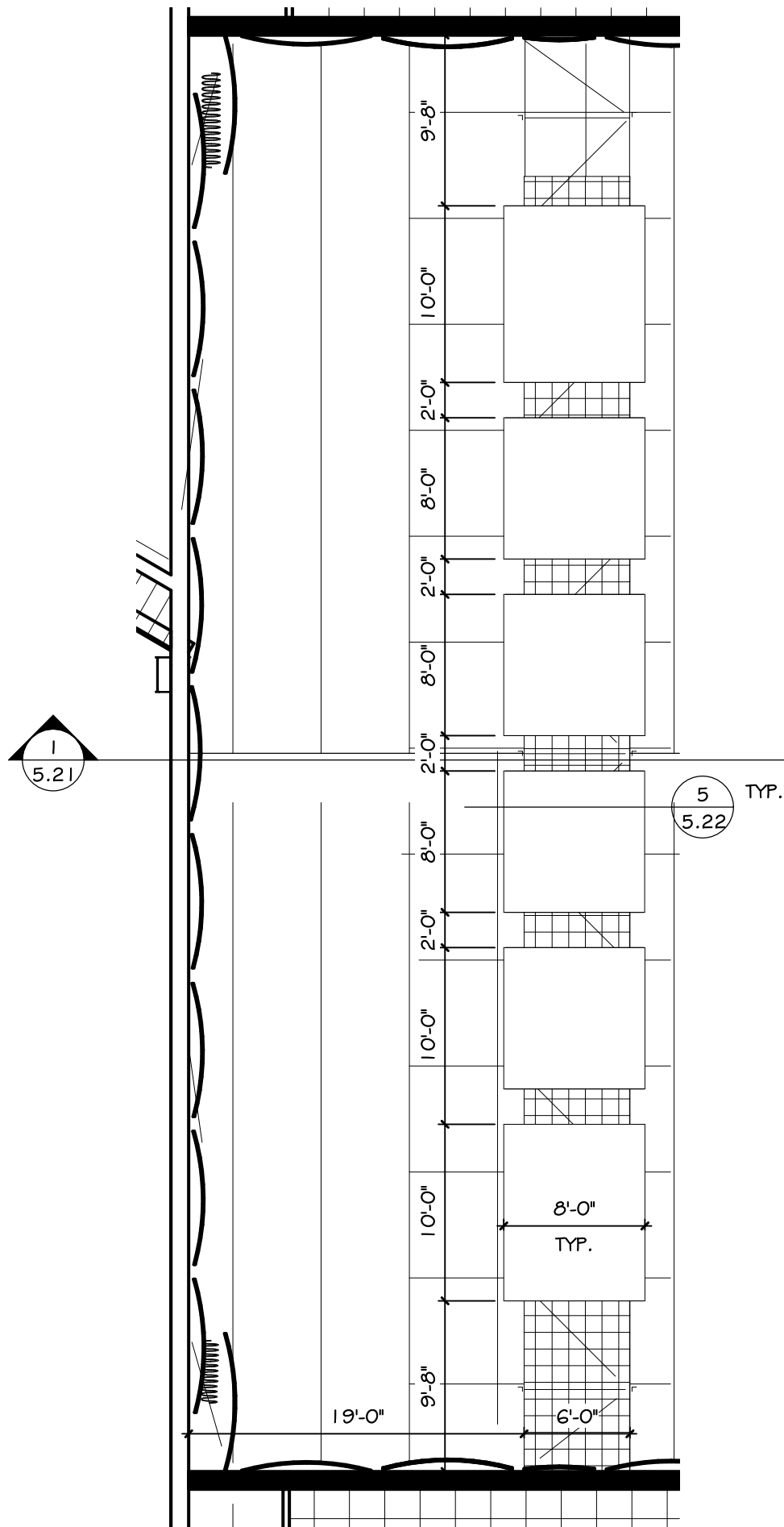
The following material or equipment furnished by the manufacturer's listed, may be substituted as equivalent providing that each item, material, and piece of equipment conforms to the design and requirement of the specifications.

<u>SECTION</u>	<u>ITEM</u>	<u>MANUFACTURER</u>
095113	Wood Acoustical Ceiling Panels	Acoustigreen - <i>Fusion Tegular</i>
230800	Fiberglass Ductwork	Monoxivent
230800	Rooftop Air Handling Units	Carrier
230800	Variable Frequency Drives	Danfoss, Schneider Electric
230800	Duct Mounted Coils	Coil Company, Greenheck
230800	Spiral duct and fittings	Eastern Sheet Metal
230800	Double Wall Spiral Duct and Fittings	Eastern Sheet Metal
230800	Power Roof Ventilators	Aerovent, Penn Barry, Rupp Air
230800	Square Centrifugal Inline Fan	Aerovent, Penn Barry, Rupp Air
230800	Combination Fire and Smoke Dampers	NCA Manufacturing
230800	Louvers	NCA Manufacturing
230800	PRV Backdraft Dampers	Aerovent, Penn Barry
230800	Roof Curbs	CDI

230800	Silencers	VAW Systems, Price
230800	Roof Relief Hoods	Acme
230900	Automatic Temperature Control/BAS	Schneider Electric

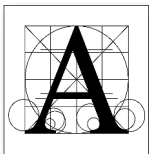
END OF ADDENDUM No. 2





## ACOUSTIC CLOUD SPACING

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



project CANTON HS PERFORMING ARTS CENTER  
 number 0706.2621.15 drawn LBD checked SRJ  
 date March 15, 2017 revision \_\_\_\_\_

**Architecture Incorporated**  
 sioux falls and rapid city, south dakota

DRAWING

**SD1**

## AIR COOLED CHILLER SCHEDULE

UNIT NO	MANUFAC.	MODEL NO	MBH CAPACITY	AMBIENT AIR TEMP	EVAPORATOR BUNDLE				ELECTRICAL				STEPS UNLOAD	EER	IPLV	SOUND POWER	SOUND PRESSURE	WEIGHT (LBS.)	REMARKS
					EWT	LWT	GPM	WPD	VOLT	PH	MCA	MOC							
CH-1	TRANE	RTAC-225	1852	75	31	24	560	25	460	3	460	600	10-100% VARI	10.0	13.8	94db	66db	14966	1,2,3,4,5,6,7

**REMARKS:**

1. CAPACITY IS BASED ON 70% WATER/30% PROPYLENE GLYCOL.
2. EER IS BASED ON ARI STANDARD CONDITIONS.
3. SOUND POWER RATING IS BASED ON ARI-370 OVERALL "A" WEIGHTED SOUND POWER LEVEL. SEE SPEC FOR DETAIL.
4. SOUND PRESSURE RATING IS BASED ON "A" WEIGHTED SOUND PRESSURE AT 30 FEET IN A FREE FIELD. SEE SPEC FOR DETAIL.
5. UNIT SHALL BE MOUNTED ON NEOPRENE OR SPRING TYPE VIBRATION ISOLATORS AS DESIGNED BY THE MANUFACTURER.
6. PERFORMANCE OF CHILLER WHEN MAKING ICE.
7. PROVIDE LOUVERED HAIL GAURDS.



**ASSOCIATED  
CONSULTING  
ENGINEERING  
INCORPORATED**

**PROJECT:**

CANTON HS PERFORMING ARTS CENTER  
BROOKINGS, SD

PROJECT NO.:

116083

DATE:

03/15/17

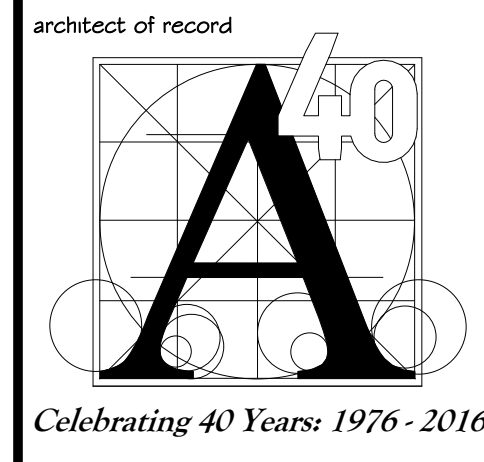
DRAWN BY:

NJH

SHEET

R8.10





Architect of record

Celebrating 40 Years 1976 - 2016

Architecture Incorporated

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CANTON HS PERFORMING ARTS CENTER  
SCHEDULES & DETAILS

Table with project details: number 116083, date 3-3-17, revision, drawn MCH, checked BUS.

Table with revision details: NO. 1, DATE 3-10-17, DESCRIPTION ADDENDUM 1; NO. 2, DATE 3-15-17, DESCRIPTION ADDENDUM 2.

9.71

PANELBOARD: HPA

Panelboard HPA data table including location (STORAGE 210), voltage (480Y/277 V, 3 ø 4 W), and a detailed load description table with columns for BKR, POLES, CKT, A, B, C, CT, POLES, BKR, and LOAD DESCRIPTION.

PANELBOARD: HM1

Panelboard HM1 data table including location (Space 324), voltage (480Y/277 V, 3 ø 4 W), and a detailed load description table.

PANELBOARD: HM2

Panelboard HM2 data table including location (Space 321), voltage (480Y/277 V, 3 ø 4 W), and a detailed load description table.

PANELBOARD: LP1

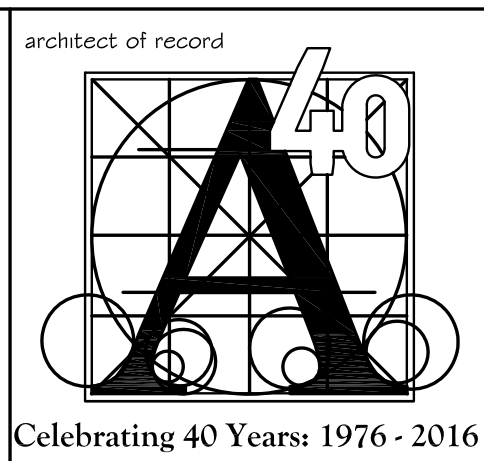
Panelboard LP1 data table including location (STORAGE 210), voltage (208Y/120 V, 3 ø 4 W), and a detailed load description table.

PANELBOARD: LP2

Panelboard LP2 data table including location (CUSTODIAL 111), voltage (208Y/120 V, 3 ø 4 W), and a detailed load description table.

PANELBOARD: LP3

Panelboard LP3 data table including location (Space 321), voltage (208Y/120 V, 3 ø 4 W), and a detailed load description table.



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CANTON HS PERFORMING ARTS CENTER

SCHEDULES & DETAILS

number	116003
date	3-3-17
revision	
drawn	MCH
checked	BUD

NO.	DATE	DESCRIPTION
1	3-10-17	ADDENDUM 1
1	3-15-17	ADDENDUM 2

9.72

MARK	VOLTAGE CHARACTERISTICS		KVA	NOTES
	PRIMARY	SECONDARY		
XPA	480/3#	208/120/3#	150	1
EX	480/3#	208/120/3#	6	1
XM	480/3#	208/120/3#	45	1

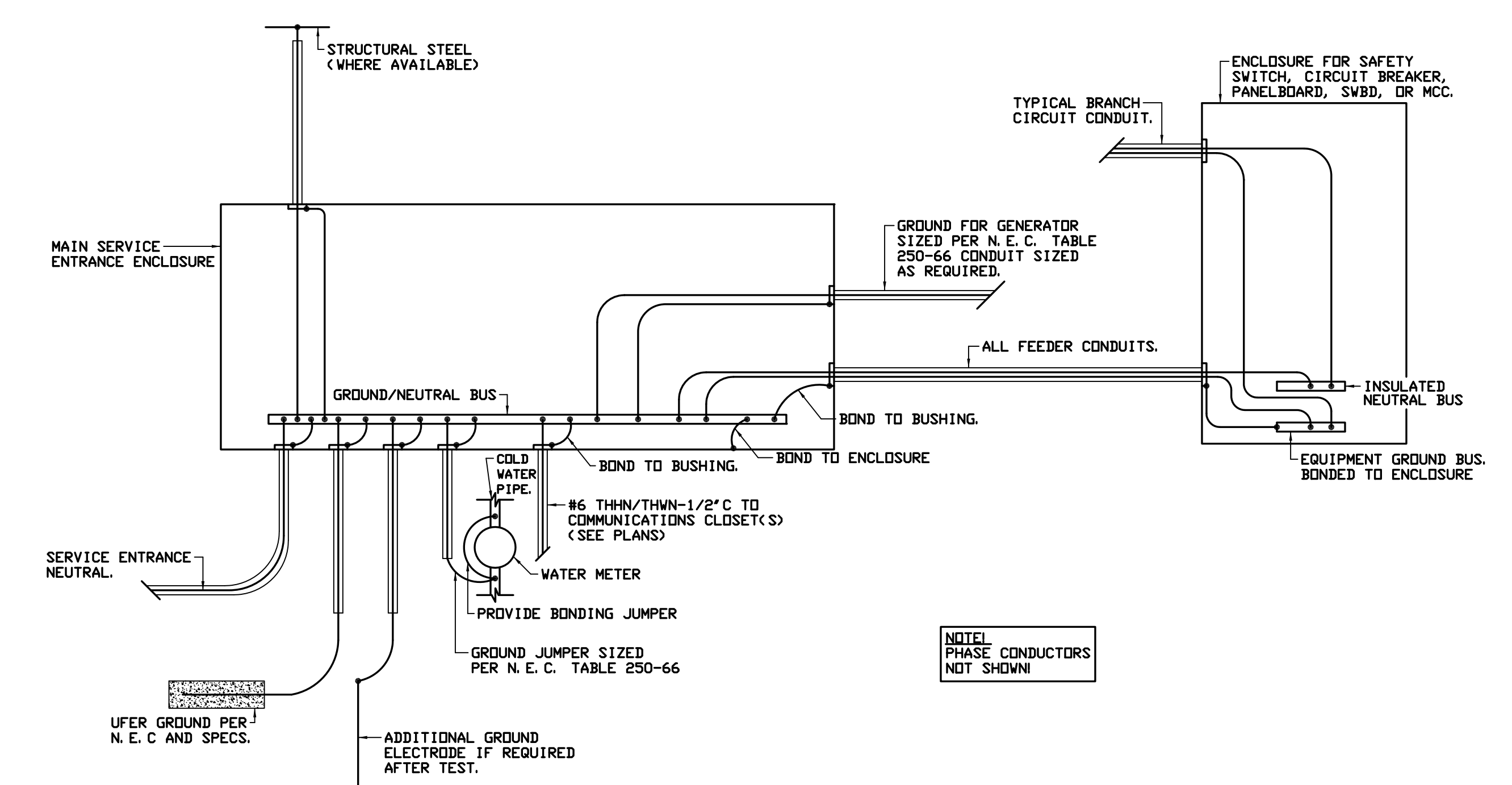
NOTES:  
1. GENERAL PURPOSE DRY-TYPE TRANSFORMER.

MARK (AMPS)	4-WIRE FEEDER			3-WIRE FEEDER			"K" RATED 4-WIRE FEEDER			MARK (AMPS)				
	SETS	PH	COND	SETS	PH	COND	SETS	N	COND					
15	1	14	14	0.75	1	14	14	0.75	1	14	14	0.75	15	
20	1	12	12	0.75	1	12	12	0.75	1	12	12	0.75	20	
25	1	10	10	0.75	1	10	10	0.75	1	10	10	0.75	25	
30	1	10	10	0.75	1	10	10	0.75	1	10	10	0.75	30	
35	1	8	10	0.75	1	8	10	0.75	1	8	10	0.75	35	
40	1	8	10	0.75	1	8	10	0.75	1	8	10	0.75	40	
45	1	6	10	1.00	1	6	10	0.75	1	6	10	1.00	45	
50	1	6	10	1.00	1	6	10	0.75	1	6	10	1.00	50	
60	1	6	10	1.00	1	6	10	0.75	1	6	10	1.00	60	
70	1	4	8	1.25	1	4	8	1.00	1	4	8	1.25	70	
80	1	4	1/0	1.25	1	4	1/0	1.00	1	4	1/0	1.25	80	
90	1	3	8	1.25	1	3	8	1.25	1	3	8	1.25	90	
100	1	3	8	1.25	1	3	8	1.25	1	3	8	1.25	100	
110	1	2	6	1.25	1	2	6	1.25	1	2	6	1.25	110	
125	1	1	6	1.50	1	1	6	1.25	1	1	6	1.50	125	
150	1	1/0	6	2.00	1	1/0	6	1.50	1	1/0	6	2.00	150	
175	1	2/0	6	2.00	1	2/0	6	2.00	1	2/0	6	2.00	175	
200	1	3/0	6	2.00	1	3/0	6	2.00	1	3/0	6	2.00	200	
225	1	4/0	4	2.50	1	4/0	4	2.00	1	4/0	2-3/0	4	2.50	225
250	1	250	4	2.50	1	250	4	2.50	1	250	2-4/0	4	2.50	250
300	1	350	4	3.00	1	350	4	2.50	1	350	2-300	4	3.00	300
350	1	500	3	3.00	1	500	3	3.00	1	500	2-400	3	3.50	350
400	2	3/0	3	2.00	1	3/0	3	2.00	2	3/0	500	3	2.50	400
450	2	4/0	2	2.50	2	4/0	2	2.00	2	4/0	2-3/0	2	2.50	450
500	2	250	2	2.50	2	250	2	2.50	2	250	2-4/0	2	2.50	500
600	2	350	1	3.00	2	350	1	2.50	2	350	2-350	1	3.00	600
700	2	500	1/0	3.00	2	500	1/0	3.00	2	500	2-400	1/0	3.50	700
800	3	300	1/0	2.50	3	300	1/0	2.50	3	300	2-4/0	1/0	3.00	800
900	3	350	2/0	3.00	3	350	2/0	2.50	3	350	2-300	2/0	3.00	900
1000	3	400	2/0	3.00	3	400	2/0	2.50	3	400	2-350	2/0	3.00	1000
1200	4	350	3/0	3.00	4	350	3/0	2.50	4	350	2-300	3/0	3.00	1200
1600	5	400	4/0	3.00	5	400	4/0	2.50	5	400	2-350	4/0	3.00	1600
2000	6	400	250	3.00	6	400	250	3.00	6	400	2-350	250	3.50	2000
2500	7	500	350	3.50	7	500	350	3.00	7	500	2-400	350	3.50	2500
3000	8	500	400	3.50	8	500	400	3.00	8	500	2-400	400	4.00	3000

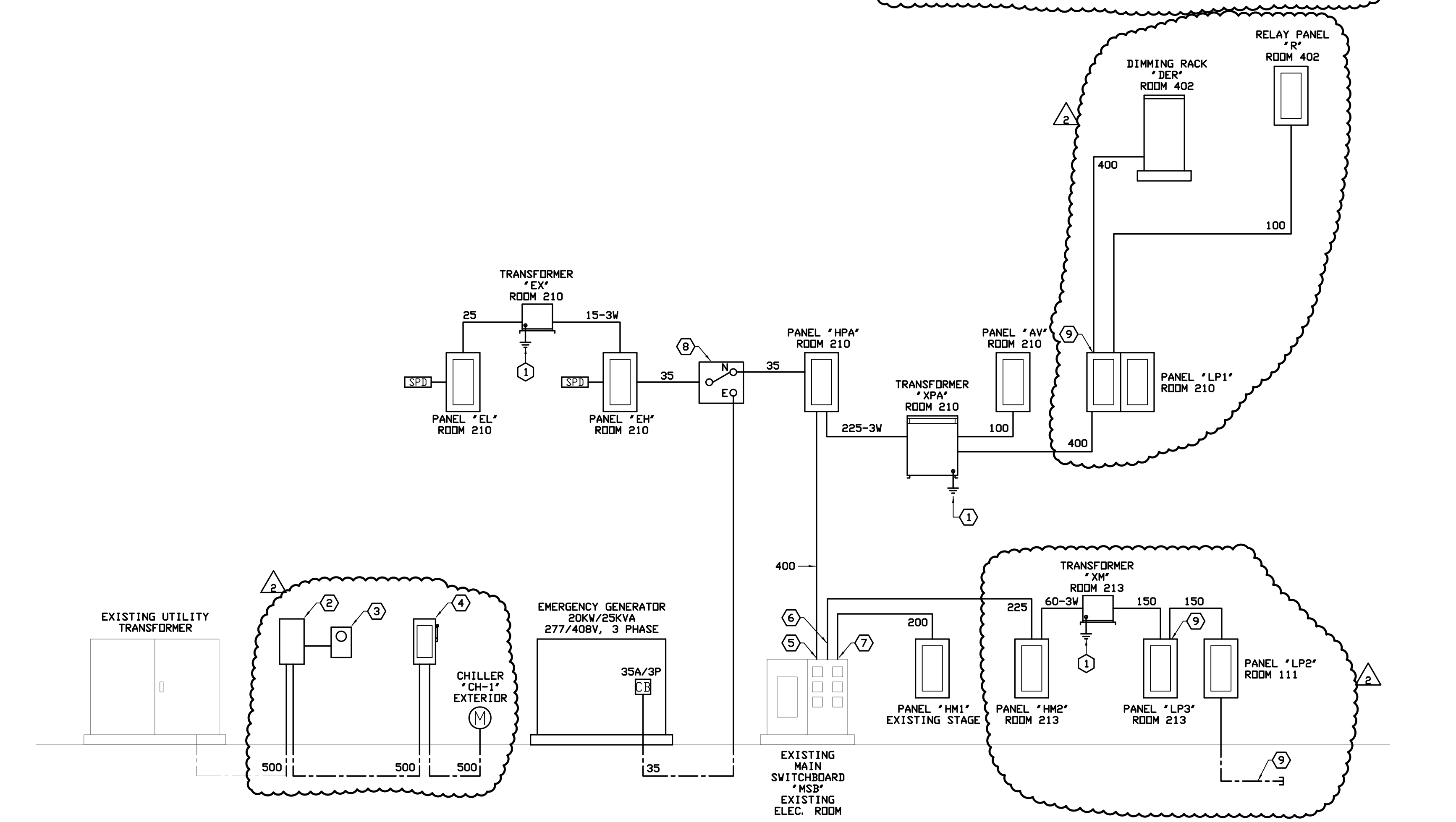
MARK (AMPS)	MOTOR LOAD (HP)		4-WIRE FEEDER		3-WIRE FEEDER		MARK (AMPS)		
	480V	208V	PH	COND	PH	COND			
20	7.5 & LESS	3 & LESS	12	12	0.75	12	0.75	20	
25	10	--	10	10	0.75	10	0.75	25	
30	15	--	10	10	0.75	10	0.75	30	
35	--	5	8	10	0.75	8	10	0.75	35
40	15	--	8	10	0.75	8	10	0.75	40
45	--	--	6	10	1.00	6	10	0.75	45
50	--	7.5	6	10	1.00	6	10	0.75	50
60	20	10	6	10	1.00	6	10	0.75	60
70	25	--	4	8	1.25	4	8	1.00	70
80	30	--	4	8	1.25	4	8	1.00	80
90	40	15	3	8	1.25	3	8	1.25	90
100	50	20	3	8	1.25	3	8	1.25	100

NOTES:  
1. FEEDERS SHALL BE 4-WIRE, UNLESS DENOTED WITH:  
"-3W" WHICH SHALL BE 3-WIRE "3W"  
"-1Ø" WHICH SHALL BE 4-WIRE PLUS INSULATED GROUND AND EQUIPMENT GROUND.  
"-4" WHICH SHALL BE 4-WIRE WITH DIVERSIFIED NEUTRAL.  
2. SERVICE ENTRANCE CONDUCTORS SHALL NOT BE PROVIDED WITH GROUND CONDUCTOR.  
3. ALL FEEDERS SHALL HAVE EQUIPMENT GROUND CONDUCTOR.  
4. NEUTRAL SHALL BE SAME SIZE AS PHASE CONDUCTOR, UNLESS OTHERWISE NOTED.  
5. CONDUCTOR SIZES FOR FEEDERS OVER 40A ARE BASED ON TERMINATIONS TO EQUIPMENT LISTED FOR 75°C. INCREASE FEEDER SIZES AS REQUIRED FOR TERMINATIONS TO EQUIPMENT NOT LISTED FOR 75°C.  
6. RACEWAY AND CONDUCTOR SIZING IS BASED ON THE USE OF THHN/THWN COPPER CONDUCTORS AND EMT CONDUIT. MODIFY RACEWAY AND CONDUCTOR SIZES AS REQUIRED FOR THE USE OF OTHER RACEWAY AND CONDUCTOR TYPES. SEE SPECIFICATIONS FOR ALLOWABLE CONDUCTOR MATERIAL, INSULATION, AND RACEWAY TYPES.  
7. NOT ALL FEEDER SIZES SHOWN IN THIS SCHEDULE ARE USED IN THIS PROJECT.

- ELECTRICAL NOTES**
- GROUND IN ACCORDANCE WITH THE NEC, LOCAL CODE REQUIREMENTS, AND SPECIFICATIONS.
  - 600A CT CABINET BY ELECTRICAL CONTRACTOR (EC).
  - NEW UTILITY METER FURNISHED BY UTILITY INSTALLED BY EC.
  - 600A/3P FUSED MAIN DISCONNECT SWITCH "MDS-CH". FUSE AT 600A.
  - REPLACE EXISTING 300A/3P CIRCUIT BREAKER THAT FED RAHU-5 WITH A NEW 400A/3P CIRCUIT BREAKER.
  - UNDER THE BASE BID, PROVIDE A NEW 200A/3P CIRCUIT BREAKER (65,000 AIC). UNDER ALTERNATE #5A, UTILIZE THE EXISTING 200A/3P CIRCUIT BREAKER THAT FED RAHU-3.
  - UTILIZE THE EXISTING 200A/3P CIRCUIT BREAKER THAT FED RAHU-1.
  - AUTOMATIC TRANSFER SWITCH "ATS-LS", 60A/3P 14,000A AIC, ROOM 210.
  - PROVIDE FEED-THRU LUGS.



**BUILDING SERVICE ENTRANCE GROUNDING DETAIL**  
NO SCALE



**POWER RISER DIAGRAM**  
NO SCALE

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