AUDITORIUM RENOVATIONS AT FARRAGUT MIDDLE SCHOOL
27 FARRUGUT AVENUE
HASTINGS-ON-HUDSON, NY 10706

CONTRACT G – GENERAL CONSTRUCTION, ABATEMENT WORK, AND PLUMBING WORK
CONTRACT M – HEATING, VENTILATION, AIR CONDITIONING WORK
CONTRACT E – ELECTRICAL WORK

WESTCHESTER COUNTY, NEW YORK

NOTE: *This addendum forms a part of the contract documents for the above project and must be acknowledged in the plans and specifications. Attach it to the inside front cover of each of the specifications.*

RESPONSES TO WRITTEN QUESTIONS:

1. **Question:**
   Please confirm that Alternate E3 is to strictly furnish the Theater Lighting Package. That the base bid is to install the theater lighting system supplied by the district.

   Response:
   Base Bid is for the District to purchase the Theater Lighting Package and for their vendor to install it. Contractor will be responsible to coordinate with districts vendor. ALT#3 is for the contractor to Provide Labor, Equipment, and material cost for the installation of the AV System.

2. **Question:**
   If Alternate E3 is not accepted, who will be providing the rigging for the theatrical lighting system? This is usually provided by the supplier of this system.

   Response:
   The existing rigging for the production lighting is to remain and be reutilized.

3. **Question:**
   Please confirm that Alternate E4 is to strictly furnish the Audio-Visual Package. That the base bid is to install the Audio-Visual system supplied by the district.

   Response:
   Base Bid is for the District to purchase the AV Equipment and for their AV vendor to install it. Contractor will be responsible to coordinate with districts AV vendor. ALT#4 is for the contractor to Provide Labor, Equipment, and material cost for the installation of the AV System.

4. **Question:**
   If Alternate E4 is not accepted, who will be providing the rigging for the Audio Visual equipment?

   Response:
   If this alternate is not awarded, the rigging for the AV equipment would be the responsibility of the vendor.

5. **Question:**
   Please confirm the GC is responsible for any patching and painting for the RTU feeders routed through all the finished area of the school as reflected on EA101. Please confirm the GC is also responsible for the pitch pocket and maintaining the roof warranty as indicated on Detail 4 / AA104.

Response:
Yes, GC would be responsible for patching and painting. Contract E must coordinate with GC on this effort.
Yes, the GC would be responsible for the pitch pockets and maintaining the roof warranty.

6. **Question:**
Please confirm all abatement work is by the GC.

Response:
Yes, all abatement work is to be performed by the GC.

7. **Question:**
Please confirm that for the auditorium renovation, the Mech. Contractor is to remove the (6) perimeter fin-tube radiators for the GC to renovate and provide new covers. After the GC renovations, the Mech. Contractor is to reinstall the fin-tube radiators.

Response:
Confirmed. This is the intent of the scope of work relating to the fin-tube radiators.

8. **Question:**
Installing the air outlets in the auditorium ceiling requires scaffolding. Can you confirm that the GC will be providing scaffolding for all work in the auditorium including installing the air outlets

Response:
No. Each contractor should figure on providing their own scaffolding.

9. **Question:**
Can you please confirm that per the walk-through, the GC is providing and OSHA rated platform for the work above the ceiling in the attic space. The existing planking is only supported by the plaster ceiling.

Response:
No. Each contractor should figure on providing their own scaffolding/platforms.

10. **Question:**
Please advise the location of the DMX box shown on the riser on EA201. There is no indication of this location on the floor plan.

Response:
Location shall be as per manufacturers recommendation and as required.

11. **Question:**
Please confirm the THHN insulated feeder wire is acceptable within the interior of the building and that XHHW insulated feeder wire is only required on the exterior of the building.

Response:
Confirmed, please refer to drawing EA101 and specification 260533 Raceways and Boxes for electrical systems.

12. **Question:**
Please confirm that low voltage plenum rated cable Is acceptable to be run in free air when in concealed space.

Response:
Confirmed, please refer to specifications 260519 Low Voltage electrical power conductors and cables for additional information.

13. **Question:**
The legend on EA001 indicates that any servers' drops shall be run to the nearest server rack. Please advise where the nearest server rack is in relation to the Auditorium.

Response:
Refer to drawing EA 100, keyplan for location of closest server rack.

14. **Question:**
Reference SECTION 265000.01 - AUDITORIUM DIMMING, CONTROL, STAGE RIGGING AND LIGHTING: Confirm all rigging elements are per Division 11 or the Owner and not included in this specification section.

Response:
Rigging elements are existing.

15. **Question:**
Reference SECTION 265000.01 - AUDITORIUM DIMMING, CONTROL, STAGE RIGGING AND LIGHTING: Confirm the warranty for this scope is two years.

Response: Warranty shall be in effect on materials and equipment for three years from the date of system commissioning as per section 2.06 (B)

16. **Question:**
Reference SECTION 265000.01 - AUDITORIUM DIMMING, CONTROL, STAGE RIGGING AND LIGHTING: Confirm no DeSisti or motorized rigging products are required under this contract.

Response:
Confirmed there are no motorized rigging products.

17. **Question:**
The limited scope for 265000.01 - AUDITORIUM DIMMING, CONTROL, STAGE RIGGING AND LIGHTING and the Section 007300-4 limiting submittal production time to 20 days from NTP requires we obtain clarification as to what is required for documentation under this contract. Clarify you are only requiring datasheet submittals of new gear, manuals of new gear, and the Reparatory Light Plot only.

Response:
Confirmed we will only require data submittals of any new equipment.

18. **Question:**
Reference SECTION 265000.01 - AUDITORIUM DIMMING, CONTROL, STAGE RIGGING AND LIGHTING: Confirm stamps by NY State Professional Engineer not required.

Response:
NY State Professional Engineer stamp is required.

19. **Question:**
Reference 265000.01-6 Part 3 – Products: CONSOLE WITH 2 DISPLAYS 2+20 FADERS ETC IONXE 20. Confirm you are requiring 2K outputs.

Response:
Refer to revised specification 265000.01-6 Part 3 – Products.

20. **Question:**
Reference 265000.01-6 Part 3 – Products: CONSOLE WITH 2 DISPLAYS 2+20 FADERS ETC IONXE 20. Specify the type of displays that are required. 22" Touchscreen External Monitors?

Response:
Refer to revised specification 265000.01-6 Part 3 – Products.

21. **Question:**
Reference 265000.01 confirm the end user has DMX terminators in inventory.

Response:
Please see photo attached IMG_0467.JPG

22. **Question:**
Reference 265000.01-6 Part 3 – Products: Confirm the Martin splitter requires 5pin connection not the specified 3pin.

Response:
Martin splitters require 5 pin due to ellipsoidals being 5 pin and rush hex being both

23. **Question:**
Reference 265000.01-6 Part 3 – Products: RUSH BATTEN 1 HEX are in limited quantities. Please specify alternate product in production.

Response:
Acceptable alternates are the Chauvet Ovation Rev 3 and Colorado solo Batten would be acceptable

24. **Question:**
Reference 265000.01-6 Part 3 – Products: DUAL 20A CONSTANT VOLTAGE MODULE ETC CC20. Where are these being installed?

Response:
Refer to Drawing EA 102 for locations.

25. **Question:**
Drawing Plate EA 201.00 requires (1) Custom LEHIGH Module. Specify.

Response:
As per conversation with vendor, Lehigh module was custom designed for the school and was indicated to be provided by Lehigh.

26. **Question:**
Drawing Plate EA-201.00 indicates EXISTING LIGHTING MIXING CONSOLE “LMC” which conflicts with Reference 265000.01-6 Part 3 – Products: CONSOLE WITH 2 DISPLAYS 2+20 FADERS ETC IONXE 20. Confirm the Ion Xe 20 2K is required under this contract.

Response:
Refer to revised specification 265000.01-6 Part 3 – Products.

27. **Question:**
Drawing Plate EA 102.00 indicates EXISTING AUDITORIUM PRODUCTION LIGHTING DIMMER RACK "LDR" (LEHIGH THEATRE SWITCHBOARD). Provide full model numbers.

Response:
Please see photos attached (IMG_0419.JPG, IMG_0421.JPG & IMG_0423.JPG)

28. **Question:**
Reference EA 201/102. What are the quantities of DMX and 20A receptacles on each of the existing to remain and reuse without modification Electrics 1-5? Are the 20A receptacles Edison?

Response:
Refer to revised EA 102 drawing.

29. **Question:**
Reference EA 201. What are the (8) existing outlet receptacle types for 20A power running to the PF2 fixtures? Confirm Edison.

Response:
As per Feeder 'A', PF2 fixture shall be provided with PROCO #DMX5-50 (DMX 5 PIN connector)

30. **Question:**
Confirm the Specification Part 3 – PRODUCTS listing takes precedence over the cable layout on the riser EA 200.00

Response:
Description of equipment that covers all requirements shall take precedence.

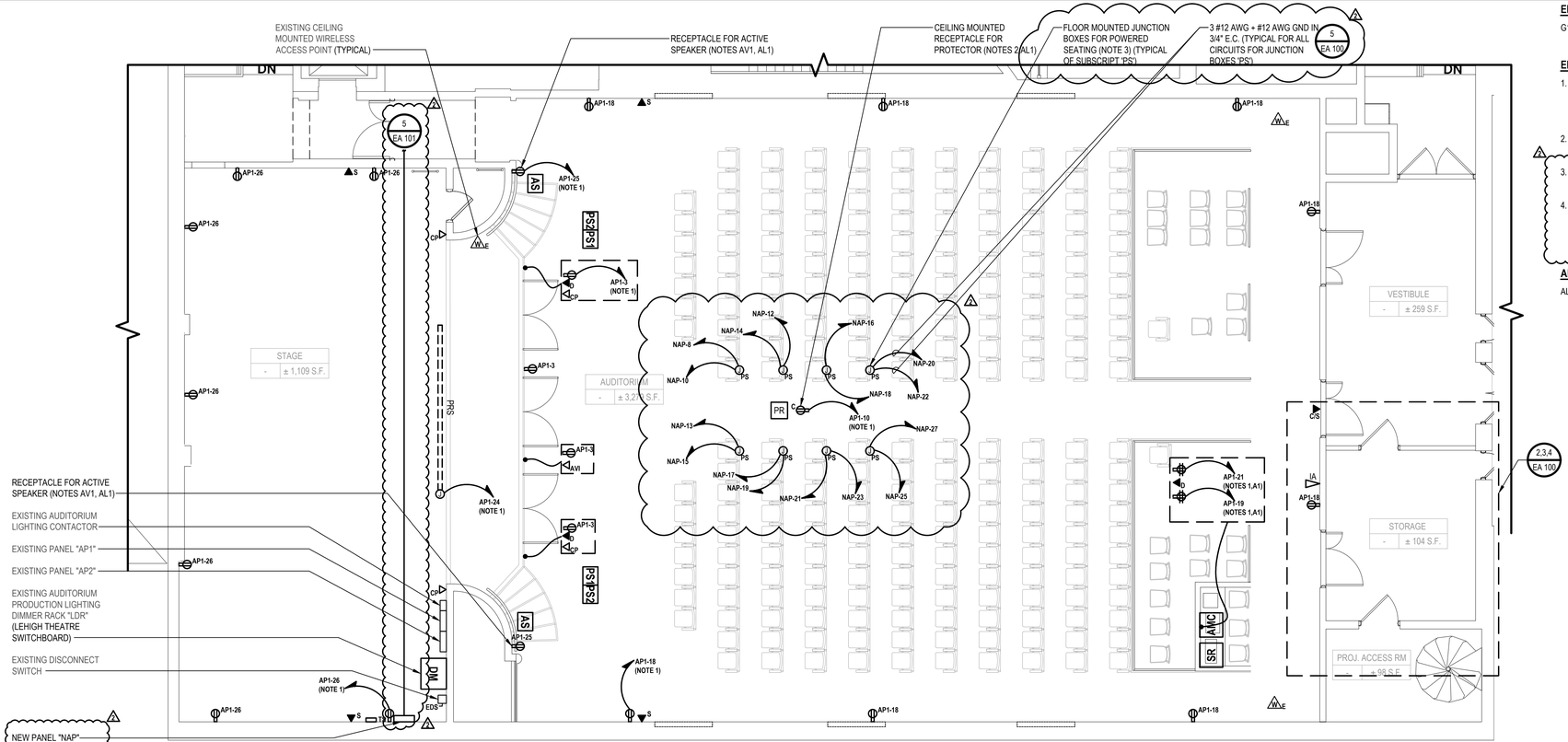
IMG_0467.JPG

IMG_0419.JPG

IMG_0421.JPG

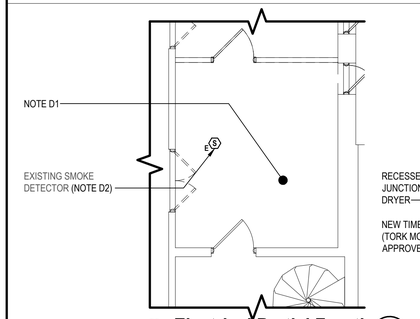
IMG_0423.JPG

End of addendum no. 2



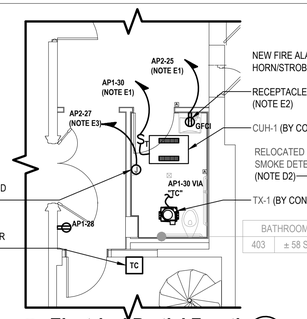
1 Electrical Auditorium Power and Audio/Visual Plan

SCALE:3/16"=1'-0"



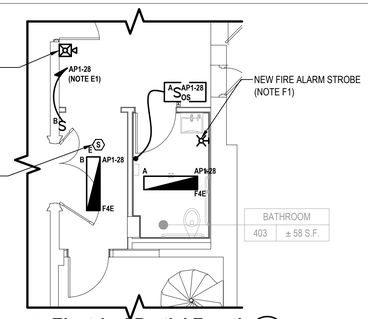
2 Electrical Partial Fourth Floor Demolition Plan (Note A1)

SCALE:3/16"=1'-0"



3 Electrical Partial Fourth Floor Power and HVAC Plan (Note A1)

SCALE:3/16"=1'-0"



4 Electrical Partial Fourth Floor Lighting and Fire Alarm Plan (Note A1)

SCALE:3/16"=1'-0"

ADD/ALTERNATE NOTE:

A1. CONTRACTOR SHALL INCLUDE ALL MATERIAL AND LABOR COST ASSOCIATED WITH DETAIL 2,3,4 ON THIS DRAWING IN ADD/ALTERNATE "E1", ONLY

ELECTRICAL ADD/ALTERNATE GENERAL DEMOLITION NOTES:

GD1. REMOVE AND DISPOSE OF INCLUDES REMOVAL OF ITEM IDENTIFIED INCLUDING ALL CONDUITS, WIRES AND CABLES, BACK TO SOURCE UNLESS OTHERWISE NOTED.

GD2. CONTRACTOR SHALL BE REQUIRED TO MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING DEVICES ON A CIRCUIT WHEN THE DRAWINGS CALL FOR REMOVAL AND/OR DISPOSAL OF A DEVICE ON THAT CIRCUIT.

GD3. ALL CONDUITS SPECIFIED TO BE REMOVED SHALL BE CUT FLUSH WITH THE SURFACE AND SURFACE SHALL BE PATCHED UNLESS OTHERWISE NOTED. SURFACE SHALL BE PRIMED AND PAINTED TO MATCH EXISTING.

GD4. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING/RELOCATING ANY NEW/EXISTING DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW DEVICES.

GD5. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ABANDONED WIRE AND CONDUIT, AND BACK BOXES BACK TO SOURCE. CONTRACTOR SHALL PATCH AND PRIME TO MATCH EXISTING WALL.

ELECTRICAL ADD/ALTERNATE FIRE ALARM KEY NOTES:

F1. CONTRACTOR SHALL PROVIDE AND INSTALL NEW FIRE ALARM DEVICES AND ALL NECESSARY EQUIPMENT TO MAKE A PROPER CONNECTION TO EXISTING FIRE ALARM CONTROL PANEL "FACP", LOCATED IN THE BASEMENT, USING MANUFACTURERS RECOMMENDED WIRING IN 3/4" E.C. CONTRACTOR SHALL PROVIDE AND EXTEND POWER/DATA FEEDS TO NEW FIRE ALARM DEVICE LOCATION. PROVIDE AND INSTALL ALL EXPANSION CARDS, WIRE, CONDUIT, RELAYS, POWER SUPPLIES, BATTERIES EXTENDERS, PROGRAMMING, MOUNTING HARDWARE, AND JUNCTION BOXES AS REQUIRED. COORDINATE EXACT MOUNTING LOCATION AND HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION. TYPICAL OF ALL FIRE ALARM DEVICES.

ELECTRICAL ADD/ALTERNATE GENERAL LIGHTING NOTES:

GL1. PROVIDE ALL REQUIRED WIRING NECESSARY BETWEEN SWITCHES AND/OR OCCUPANCY SENSORS FOR COMPLETE LIGHTING CONTROL. PROVIDE ALL REQUIRED WIRING BETWEEN SWITCHES. WIRE SIZE SHALL EQUAL POWER FEED SIZE.

GL2. FIXTURES INDICATED WITH CIRCUIT DESIGNATIONS SHALL BE CONNECTED TO LINE SIDE OF CIRCUIT.

GL3. FIXTURES INDICATED WITH LETTER DESIGNATIONS SHALL BE CONNECTED TO THE SWITCH WITH CORRESPONDING LETTER DESIGNATION.

GL4. PROVIDE AND INSTALL A DEDICATED NEUTRAL FOR EACH CIRCUIT. CONTRACTOR IS NOT PERMITTED TO USE COMMON NEUTRALS.

GL5. PROVIDE BOX AND ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATION FOR ALL SWITCHES AND/OR CONTROLS.

GL6. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT/ENGINEER IN FIELD.

GL7. ALL CEILING MOUNTED FIXTURES WITH EMERGENCY DRIVER AND ALL FIXTURES THAT ARE PART OF AN EMERGENCY LIGHTING SYSTEM,FED FROM A BATTERY SYSTEM SHALL BE LABELED. THESE LABELS SHALL BE EASILY READ FROM THE FLOOR LEVEL AND STATE THAT THE FIXTURE IS AN EMERGENCY FIXTURE AND CONTAIN THE PANEL NAME AND CIRCUIT NUMBER THAT IT IS FEED FROM.

GL8. WIRING FOR EMERGENCY DRIVER IS NOT SHOWN ON PLANS. FIXTURES WITH EMERGENCY DRIVER SHALL BE PROVIDED WITH AN UNSWITCHED POWER FEED FROM CIRCUIT FEEDING LIGHT FIXTURE.

ELECTRICAL ADD/ALTERNATE DEMOLITION KEY NOTES:

D1. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL WIRING DEVICES INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, RECEPTACLES, DATA AND TELEPHONE OUTLETS, SWITCHES, SENSORS, JUNCTION BOXES LOCATED IN THIS AREA AND ALL ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE, UNLESS OTHERWISE NOTED.

D2. EXISTING SMOKE DETECTOR TO BE RELOCATED. NEW LOCATION OF EXISTING SMOKE DETECTOR IS SHOWN ON DETAIL 4 ON THIS DRAWING. CONTRACTOR SHALL PROVIDE AND EXTEND WIRE AND CONDUIT AS REQUIRED TO RELOCATE EXISTING FIRE ALARM STROBE. PROVIDE PROGRAMMING TO THE EXISTING FIRE ALARM SYSTEM AS REQUIRED.

ELECTRICAL ADD/ALTERNATE KEY NOTES:

E1. CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 20A/1P CIRCUIT BREAKER IN EXISTING PANEL. PROVIDE ALL MOUNTING HARDWARE. NEW CIRCUIT BREAKER SHALL BE LISTED/LABELED FOR USE IN EXISTING PANEL. AMPERE INTERRUPTING CAPACITY (AIC) RATING ON NEW CIRCUIT BREAKER SHALL MATCH OR EXCEED EXISTING PANEL RATING.

E2. CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH SINK/FAUCET INSTALLER PRIOR TO INSTALLATION.

E3. CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 15A/1P CIRCUIT BREAKER IN EXISTING PANEL. PROVIDE ALL MOUNTING HARDWARE. NEW CIRCUIT BREAKER SHALL BE LISTED/LABELED FOR USE IN EXISTING PANEL. AMPERE INTERRUPTING CAPACITY (AIC) RATING ON NEW CIRCUIT BREAKER SHALL MATCH OR EXCEED EXISTING PANEL RATING.

ELECTRICAL GENERAL NOTE:

G1. REFER TO DRAWING EA 200 FOR ALL WIRING AND ADDITIONAL INFORMATION FOR AUDIO/VISUAL SYSTEM. CONTRACTOR SHALL PROVIDE AND INSTALL ALL EQUIPMENT AS PER MANUFACTURES RECOMMENDATION.

ELECTRICAL KEY NOTES:

1. CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 20A/1P CIRCUIT BREAKER IN EXISTING PANEL. PROVIDE ALL MOUNTING HARDWARE. NEW CIRCUIT BREAKER SHALL BE LISTED/LABELED FOR USE IN EXISTING PANEL. AMPERE INTERRUPTING CAPACITY (AIC) RATING ON NEW CIRCUIT BREAKER SHALL MATCH OR EXCEED EXISTING PANEL RATING.
2. CONTRACTOR SHALL VERIFY EXACT MOUNTING HEIGHT AND LOCATION WITH SCHOOL PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL NOTE CIRCUITS SHARE COMMON GROUND AND NEUTRAL. COORDINATE WITH SEAT MANUFACTURER PRIOR TO INSTALLATION.
4. CONTRACTOR SHALL CORE DRILL FLOOR FOR INSTALLATION OF NEW FLOOR JUNCTION BOX AND FURNITURE WHIP. CONTRACTOR SHALL PROVIDE LEGRAND POKE-THRU FLUSH FLOOR BOX (MODEL RC4) WITH FURNITURE FEED. PROVIDE ALL EQUIPMENT AND ACCESSORIES AS REQUIRED TO CORE DRILL FLOOR FOR INSTALLATION OF NEW FLOOR BOX. FINAL LOCATION OF ALL FLOOR CORE DRILLS SHALL BE COORDINATED AND APPROVED IN FIELD WITH DISTRICT/ARCHITECT AND FINAL SEATING LAYOUT.

ADD/ALTERNATE NOTE:

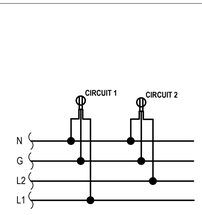
AL1. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS COST ASSOCIATED WITH THE INSTALLATION OF THE AUDIO/VISUAL SYSTEM IN ADD/ALTERNATE #4, ONLY.

AUDIO/VISUAL LEGEND (NOTES AV1,AL1)

SYMBOL	DESCRIPTION	REMARKS
SR	44 SPACE EQUIPMENT RACK	-
AMC	32 CHANNELS AND 1 MASTER/48 INPUT MIXING CHANNELS (AUDIO MIXING CONSOLE)	-
CP	CUSTOM MIC, UTILITY, LINE OUT PLATES	MOUNT 48" AFF
TS	7" TOUCH SCREEN	-
AS	ACTIVE LOUD SPEAKER	-
PS1	CEILING MOUNTED PASSIVE LOUD SPEAKER LINE-ARRAY (3-WAY COLUMN)	-
PS2	CEILING MOUNTED PASSIVE LOUD SPEAKER LINE-ARRAY (LOW RANGE COLUMN)	-
PRS	CEILING MOUNTED MOTORIZED PROJECTION SCREEN	-
PR	CEILING MOUNTED PROJECTOR	-
AVI	AUDIO AND VISUAL INPUT PANEL	-
IA	ASSISTED LISTENING ANTENNA	-

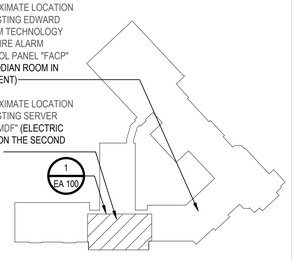
AUDIO/VISUAL LEGEND NOTE:

AV1. CONTRACTOR SHALL VERIFY EXACT MOUNTING HEIGHT AND LOCATION FOR ALL AUDIO/VISUAL SYSTEM EQUIPMENT AND ASSOCIATED WIRING DEVICES WITH SCHOOL PRIOR TO INSTALLATION.



5 Seat Receptacle Wiring Schematic

SCALE:N.T.S.



Key Plan

SCALE:N.T.S.

H2M architects + engineers
2700 Westchester Ave., Suite 415
Purchase, NY 10577
914.358.5623 • www.h2m.com

CONSULTANTS:

MARK	DATE	DESCRIPTION
2	08-27-2021	ADDENDUM 02
	07-23-2021	FINAL BID DOCUMENT

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
DJH	DJH		

PROJECT No.:	DATE:	SCALE:
HHSD 1905	JULY 2021	AS NOTED

CLIENT

Hastings-on-Hudson Union Free School District

Auditorium Renovations at Farragut Middle School

27 Farragut Avenue Hastings-on-Hudson, NY 10706

66-04-04-03-0-001-036

CONTRACT

CONTRACT E ELECTRICAL CONSTRUCTION

STATUS

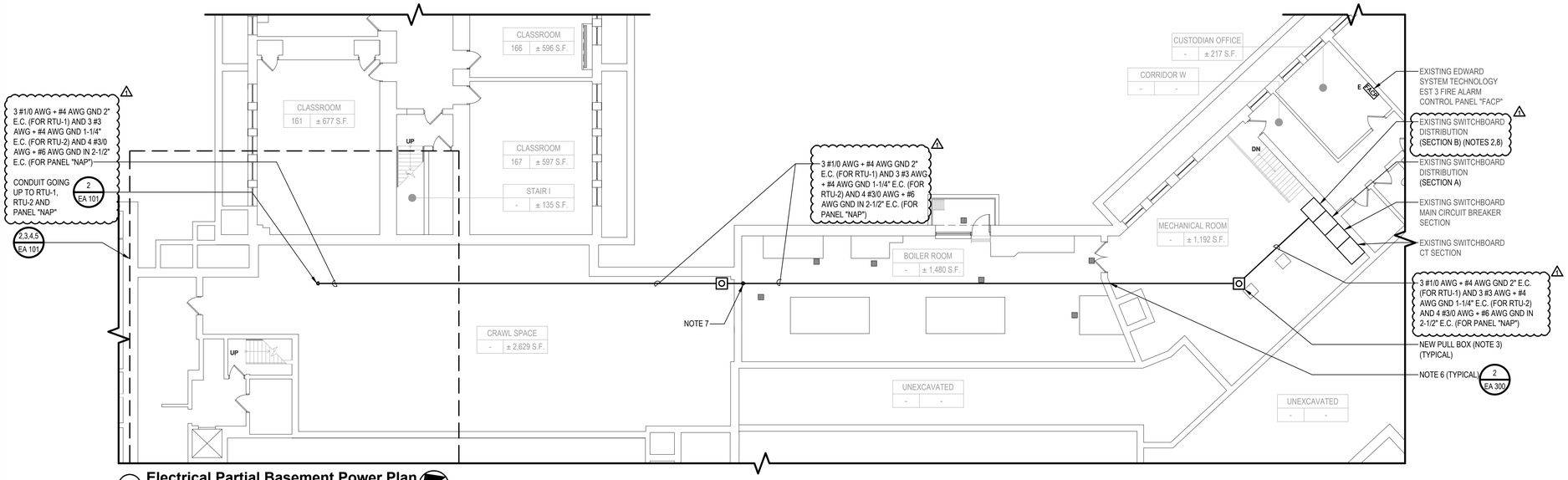
FINAL BID SET

SHEET TITLE

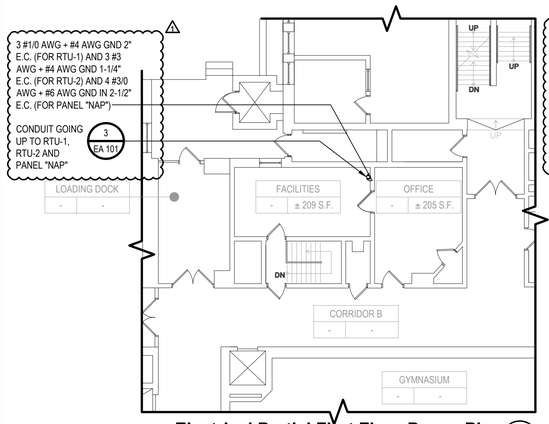
ELECTRICAL AUDITORIUM POWER AND AUDIO/VISUAL PLANS

DRAWING No.

EA 100.00



1 Electrical Partial Basement Power Plan
SCALE:3/32"=1'-0"



2 Electrical Partial First Floor Power Plan
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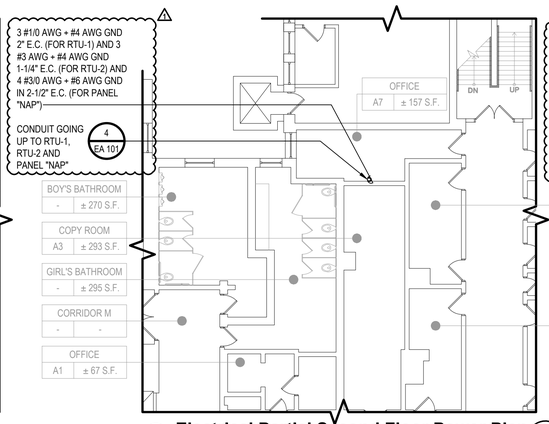

3 Electrical Partial Second Floor Power Plan
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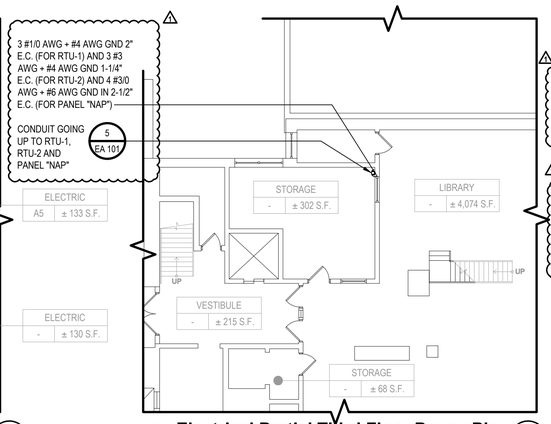

4 Electrical Partial Third Floor Power Plan
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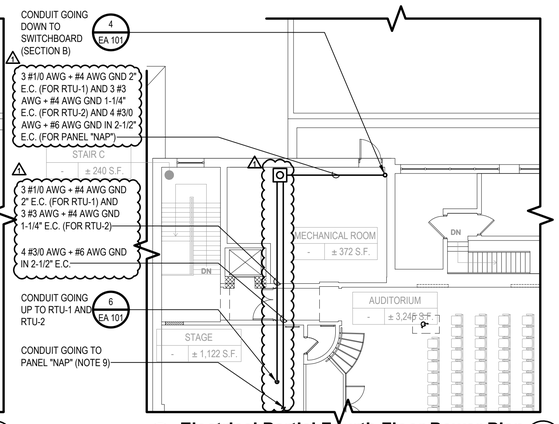

5 Electrical Partial Fourth Floor Power Plan
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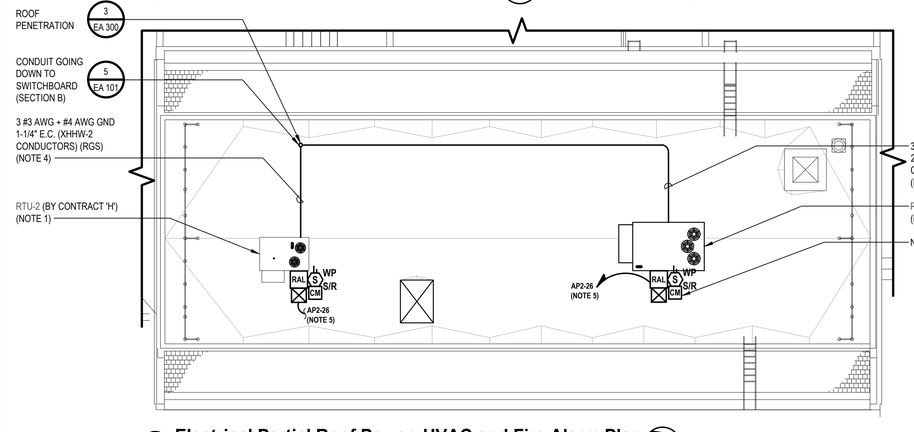


6 Electrical Partial Roof Power, HVAC and Fire Alarm Plan
SCALE:3/32"=1'-0"

ELECTRICAL GENERAL NOTE:

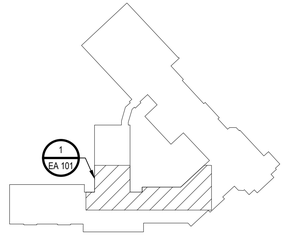
G1. CONTRACTOR SHALL NOTE THAT ALL WIRE AND CONDUIT ROUTING SHOWN ON THIS DRAWING IS DIAGRAMMATICAL. PRIOR TO BIDDING, CONTRACTOR SHALL FIELD VERIFY EXACT WIRE AND CONDUIT ROUTING ON SITE TO AVOID ALL EXISTING EQUIPMENT AND OBSTACLES AND SHALL RE-ROUTE AS REQUIRED.

ELECTRICAL KEY NOTES:

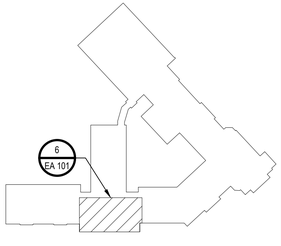
1. MECHANICAL EQUIPMENT PROVIDED WITH FACTORY INSTALLED NON-FUSED DISCONNECT AND CONVENIENCE RECEPTACLE.
2. CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 100A/3P CIRCUIT BREAKER (FOR RTU-1) AND A NEW 50A/3P CIRCUIT BREAKER (FOR RTU-2) IN EXISTING SWITCHBOARD (SECTION B, 208Y/120V 3 PHASE SQUARE D TYPE QED 2). CONTRACTOR SHALL PROVIDE AND INSTALL NEW BUSS DETAIL AND MOUNTING HARDWARE AS REQUIRED. PROVIDE AND INSTALL NEW FACEPLATE (DEAD FRONT) ON EXISTING SWITCHBOARD AS REQUIRED. NEW CIRCUIT BREAKER SHALL BE LISTED/LABELED FOR USE IN EXISTING SWITCHBOARD. INTERRUPTING CAPACITY (AIC) SHALL MATCH OR EXCEED EXISTING SWITCHBOARD RATING.
3. NEW PULL BOX ATTACHED TO CEILING STRUCTURE (ABOVE FINISH CEILING IN FINISHED AREAS). CONTRACTOR SHALL PROVIDE AND INSTALL PULL BOXES AS REQUIRED. FLOOR PLAN SHOWS MINIMUM REQUIRED PULL BOXES. PROVIDE AND INSTALL ADDITIONAL PULL BOXES AS REQUIRED BY NEC AND AS REQUIRED FOR INSTALLATION PURPOSES. PROVIDE AND INSTALL ALL MOUNTING HARDWARE ACCESSORIES REQUIRED.
4. CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRE, CONDUIT AND ACCESSORIES REQUIRED TO FEED NEW HVAC EQUIPMENT AS IDENTIFIED. PROVIDE AND INSTALL CADDY PYRAMID 50 SUPPORTS AT 5'-0" ON CENTER.
5. CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 20A/1P CIRCUIT BREAKER IN EXISTING PANELBOARD FOR DUCT SMOKE DETECTOR HEATER AS REQUIRED. NEW CIRCUIT BREAKER SHALL BE LISTED/LABELED FOR USE IN EXISTING PANELBOARD. INTERRUPTING CAPACITY (AIC) SHALL MATCH OR EXCEED EXISTING PANELBOARD RATING.
6. CONTRACTOR SHALL COREDRILL WALL AS REQUIRED. INSTALL NON SHRINK GROUT/FIREPROOFING SEALANT FOR ALL CONDUIT PENETRATIONS. RESTORE ALL FINISH TO MATCH EXISTING.
7. CONTRACTOR SHALL NOTE CONDUIT RUNS ALONG BOILER ROOM CEILING AND DROPS ALONG WALL TO CRAWL SPACE AS SHOWN. PRIOR TO BIDDING, CONTRACTOR SHALL VERIFY EXACT WIRE AND CONDUIT ROUTING FOR A COMPLETE SYSTEM.
8. CONTRACTOR SHALL BE PERMITTED TO USE EXISTING 200A/3P SPARE IN EXISTING SWITCHBOARD SECTION 'B' FOR NEW PANEL "NAP". PROVIDE ALL WIRES AND CONDUITS AS REQUIRED FROM SWITCHBOARD TO PANEL "NAP" IN FIRST FLOOR. PROVIDE AND INSTALL ADDITIONAL HARDWARE AND ACCESSORIES AS REQUIRED.
9. REFER TO DETAIL 1 ON DRAWING EA-102 FOR LOCATION OF NEW PANEL "NAP".

FIRE ALARM KEY NOTES

FA1. ALL EXISTING HVAC EQUIPMENT SHALL BE INTERCONNECTED WITH THE NEW FIRE ALARM SYSTEM AND SHALL SHUT DOWN UPON FIRE ALARM SYSTEM ALARM ACTIVATION. CONTRACTOR SHALL PROVIDE AND INSTALL NEW ADDRESSABLE SHUTDOWN CONTROL MODULES, ASSOCIATED RELAYS, WIRING AND CONDUIT AS REQUIRED TO INTEGRATE EXISTING HVAC EQUIPMENT WITH NEW FIRE ALARM SYSTEM. INSTALLATION LOCATIONS OF NEW SHUTDOWN CONTROL MODULES IS APPROXIMATE AND SHALL BE FIELD VERIFIED BY CONTRACTOR.



Key Plan
SCALE:N.T.S.



Roof Key Plan
SCALE:N.T.S.

H 2 M architects + engineers
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CONSULTANTS:

MARK	DATE	DESCRIPTION
2	08-27-2021	ADDENDUM 02
	07-23-2021	FINAL BID DOCUMENT

STATE OF NEW YORK — ANTHONY WOODWARD — 092583 — LICENSED PROFESSIONAL ENGINEER

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
DJH	DJH		
PROJECT No.:	DATE:	SCALE:	
HHSD 1905	JULY 2021	AS NOTED	

CLIENT
Hastings-on-Hudson Union Free School District

Auditorium Renovations at Farragut Middle School

27 Farragut Avenue
Hastings-on-Hudson, NY 10706

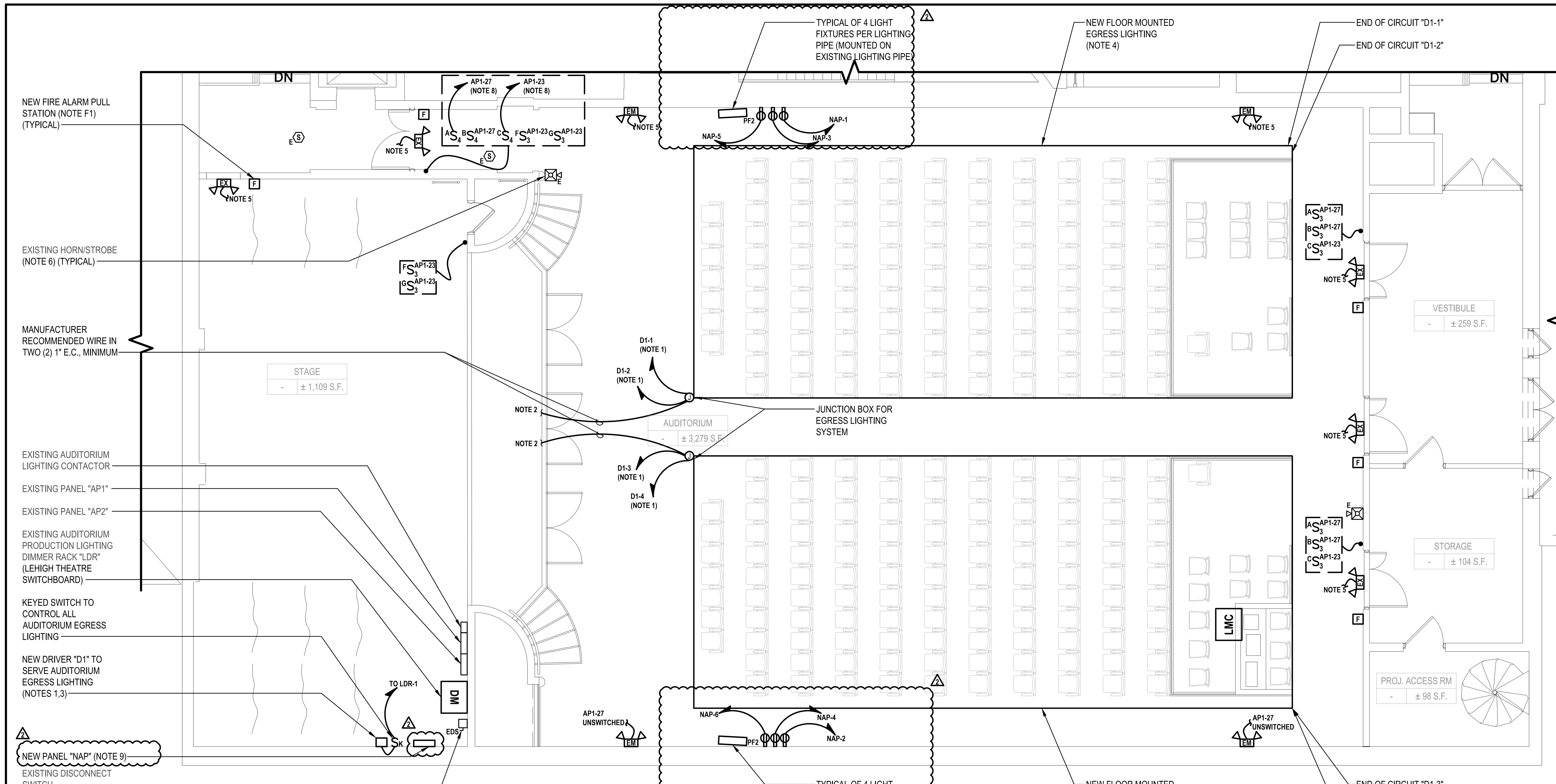
66-04-04-03-0-001-036

CONTRACT
CONTRACT E
ELECTRICAL CONSTRUCTION

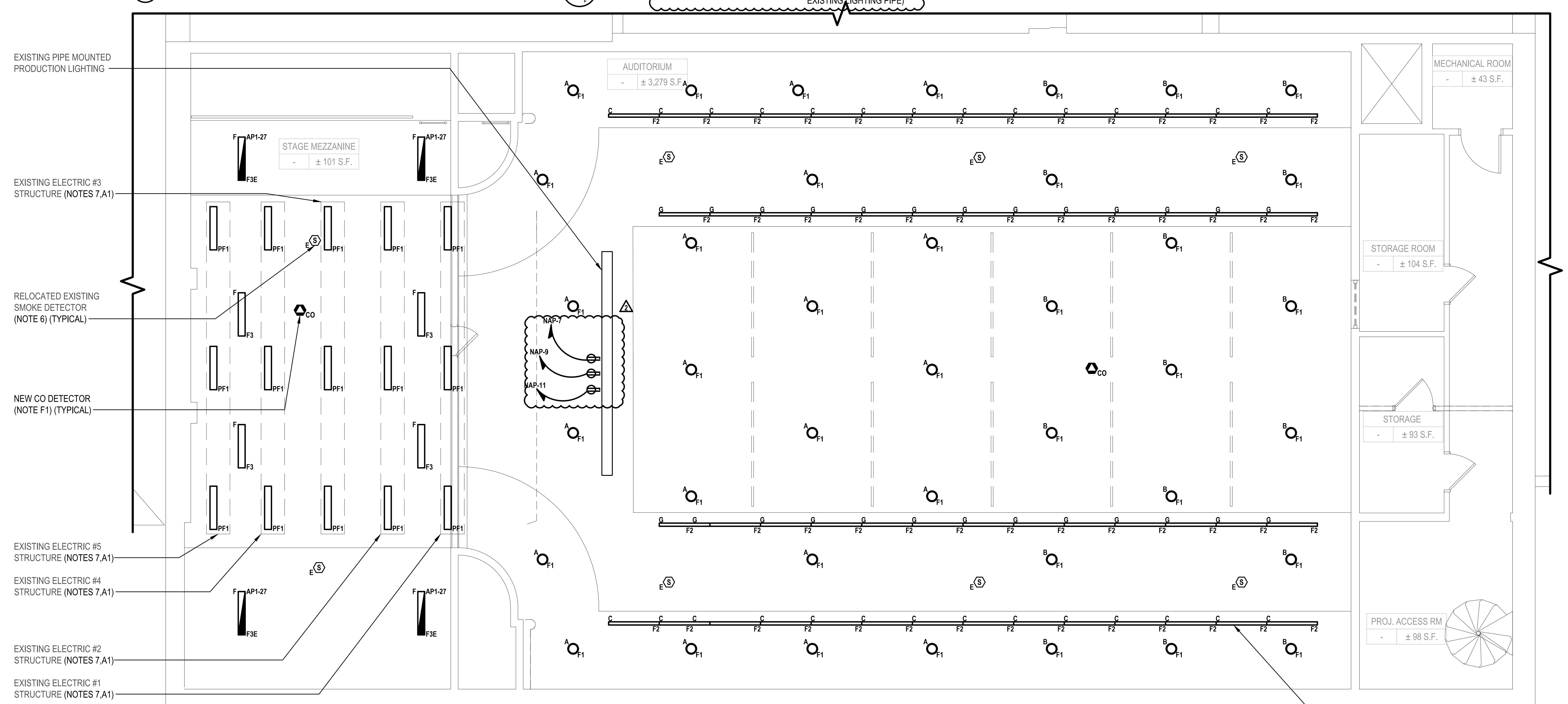
STATUS
FINAL BID SET

SHEET TITLE
ELECTRICAL PARTIAL FLOORS POWER AND HVAC PLANS

DRAWING No.
EA 101.00



1 **Electrical Auditorium Lighting And Fire Alarm Plan**
SCALE:3/16"=1'-0"



2 **Electrical Auditorium Ceiling Lighting and Fire Alarm Plan**
SCALE:3/16"=1'-0"

ELECTRICAL GENERAL LIGHTING NOTES:

GL1. PROVIDE ALL REQUIRED WIRING NECESSARY BETWEEN SWITCHES, CONTROLLERS AND/OR OCCUPANCY SENSORS FOR COMPLETE LIGHTING CONTROL. WHERE 3 OR 4 WAY SWITCHES ARE USED, PROVIDE ALL REQUIRED WIRING BETWEEN SWITCHES. WIRE SIZE SHALL EQUAL POWER FEED SIZE.

GL2. FIXTURES INDICATED WITH CIRCUIT DESIGNATIONS SHALL BE CONNECTED TO LINE SIDE OF CIRCUIT.

GL3. FIXTURES INDICATED WITH LETTER DESIGNATIONS SHALL BE CONNECTED TO THE SWITCH WITH CORRESPONDING LETTER DESIGNATION.

GL4. PROVIDE AND INSTALL A DEDICATED NEUTRAL FOR EACH CIRCUIT. CONTRACTOR IS NOT PERMITTED TO USE COMMON NEUTRALS.

GL5. PROVIDE BOX AND ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATION FOR ALL SWITCHES AND/OR CONTROLS.

GL6. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT/ENGINEER IN FIELD.

GL7. ALL CEILING MOUNTED FIXTURES WITH EMERGENCY DRIVER AND ALL FIXTURES THAT ARE PART OF AN EMERGENCY LIGHTING SYSTEM,FED FROM A BATTERY SYSTEM SHALL BE LABELED. THESE LABELS SHALL BE EASILY READ FROM THE FLOOR LEVEL AND STATE THAT THE FIXTURE IS AN EMERGENCY FIXTURE AND CONTAIN THE PANEL NAME AND CIRCUIT NUMBER THAT IT IS FEED FROM.

GL8. WIRING FOR EMERGENCY DRIVER IS NOT SHOWN ON PLANS. FIXTURES WITH EMERGENCY DRIVER SHALL BE PROVIDED WITH AN UNSWITCHED POWER FEED FROM CIRCUIT FEEDING LIGHT FIXTURE.

GL9. REFER TO DRAWING EA 201 FOR ALL WIRING AND ADDITIONAL INFORMATION FOR PRODUCTION LIGHTING SYSTEM. CONTRACTOR SHALL PROVIDE AND INSTALL ALL EQUIPMENT AS PER MANUFACTURES RECOMMENDATION.

GL10. REFER TO DETAIL 1 ON THIS DRAWING FOR LIGHT FIXTURE SWITCHES.

ELECTRICAL KEY NOTES:

1. CONTRACTOR SHALL PROVIDE AND INSTALL A DEDICATED HOMERUN BETWEEN EACH LIGHTING STRIP AND DRIVER "D1" AS SHOWN ON THIS DRAWING VIA NEW JUNCTION BOX. CONTRACTOR SHALL COREDRILL FLOOR AND RUN CONDUIT BELOW FLOOR (ABOVE FINISHED CEILING ON THE FLOOR BELOW) BETWEEN EACH LIGHTING STRIP AND STAGE AS SHOWN ON DRAWING. CONTRACTOR SHALL PROVIDE AND INSTALL WIRE AND CONDUIT SIZED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR VOLTAGE DROP OVER THE DISTANCE BETWEEN THE LIGHTING STRIP AND THE DRIVER. ALL WIRE TYPES BETWEEN THE LIGHTING STRIP AND DRIVER SHALL BE AS RECOMMENDED BY THE LIGHTING STRIP MANUFACTURER. ALL HOMERUNS SHALL BE CONTAINED IN 1" E.C., MINIMUM BETWEEN THE LIGHTING STRIP AND DRIVER "D1".

2. CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRE AND CONDUIT BACK TO DRIVER "D1" AS SHOWN ON THIS DRAWING. PROVIDE AND INSTALL ALL HARDWARE AND ACCESSORIES AS REQUIRED TO STUB UP ALL WIRING AND CONDUIT BELOW AUDITORIUM FLOOR.

3. CONTRACTOR SHALL PROVIDE AND INSTALL NEW DRIVER (CALIFORNIA ACCENT LIGHTING MODEL #: DRV96-E OR APPROVED EQUAL). CONTRACTOR SHALL FEED DRIVER AS SHOWN ON THIS DRAWING VIA NEW KEYED SWITCH. CONTRACTOR SHALL WALL MOUNT THE DRIVERS AT 6'-0" AFF. CONTRACTOR SHALL WALL MOUNTED THE ASSOCIATED KEYED SWITCH AT 3'-10" AFF. INDICATION D1-X INDICATES CIRCUIT NUMBER ON DRIVER.

4. CONTRACTOR SHALL PROVIDE AND INSTALL NEW EGRESS LIGHTING SYSTEM (CALIFORNIA ACCENT LIGHTING MODEL #: AIL1800-4"-10V-5000K-CL-X. COORDINATE 'X' WITH EXACT LENGTH REQUIRED). CONTRACTOR SHALL PROVIDE AND INSTALL ALL ACCESSORIES AS REQUIRED TO INSTALL THE LIGHTING SYSTEM INCLUDING BUT NOT LIMITED TO LENS COVER, ALUMINUM EXTRUSION, LED LIGHTING STRIP ROLLS, POWER CONNECTORS, CONTINUOUS POWER CONNECTORS, AND END CAPS. ALL CORNERS SHALL HEAVE A CLEAN MITERED EDGE. CONTRACTOR SHALL CUT LIGHTING SYSTEM COMPONENTS TO THE APPROPRIATE LENGTH IN FIELD AS PER THE MANUFACTURER'S RECOMMENDATIONS.

5. CONTRACTOR SHALL PROVIDE, EXTEND AND/OR MODIFY EXISTING WIRE AND CONDUIT TO TERMINATE TO NEW EMERGENCY LIGHT/EXIT SIGN. PROVIDE AND INSTALL ALL MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED. REFER TO DRAWING EDA 100 FOR ADDITIONAL INFORMATION.

6. REFER TO DRAWING EDA 100 FOR ADDITIONAL INFORMATION.

7. CONTRACTOR SHALL PROVIDE AND INSTALL ALL HARDWARE AND ACCESSORIES AS REQUIRED TO SECURELY MOUNT NEW PRODUCTION LIGHTING AND EQUIPMENT TO EXISTING LIGHTING PIPE. RE-SECURE, PROVIDE AND/OR MODIFY PIPE TO PROVIDE CLEARANCE FOR NEW HVAC DUCT AND AS REQUIRED. COORDINATE WITH CONTRACT 'H' FOR NEW DUCT LOCATION. PRIME AND PAINT PIPE WITH COLOR SELECTED BY SCHOOL.

8. CONTRACTOR SHALL PROVIDE AND INSTALL A NEW 20A/1P CIRCUIT BREAKER IN EXISTING PANELBOARD. NEW CIRCUIT BREAKER SHALL BE LISTED/LABELED FOR USE IN EXISTING PANELBOARD. INTERRUPTING CAPACITY (AIC) SHALL MATCH OR EXCEED EXISTING PANELBOARD RATING.

9. CONTRACTOR SHALL COORDINATE WITH OWNER TO REMOVE OBSTRUCTION ON THIS WALL TO INSTALL NEW PANELBOARD AND ALL ASSOCIATED MOUNTING HARDWARE AND ACCESSORIES AS REQUIRED. (2)

ELECTRICAL FIRE ALARM KEY NOTE:

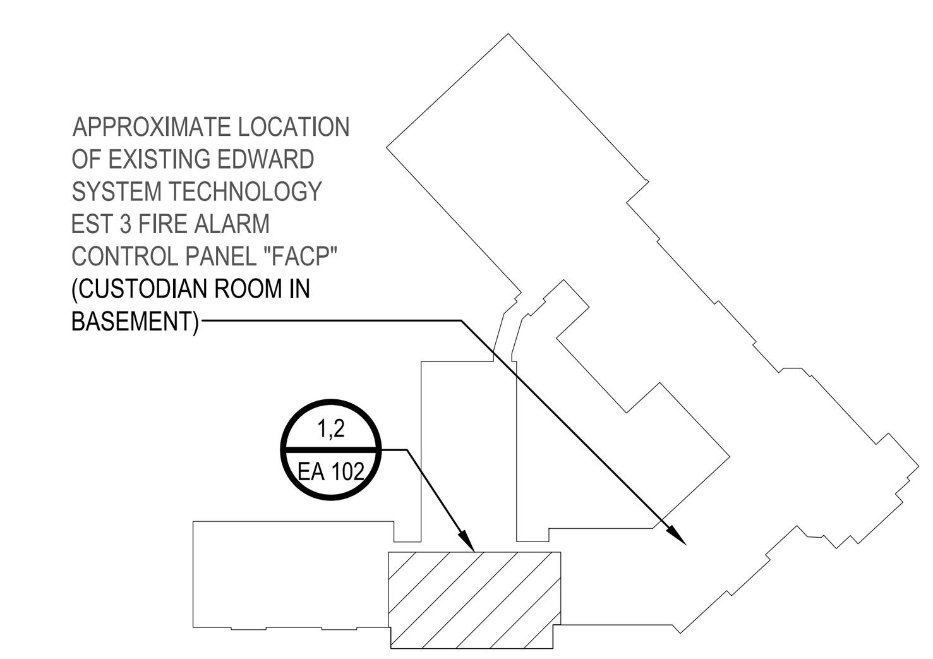
F1. CONTRACTOR SHALL PROVIDE AND INSTALL NEW FIRE ALARM DEVICES AND ALL NECESSARY EQUIPMENT TO MAKE A PROPER CONNECTION TO EXISTING FIRE ALARM CONTROL PANEL "FACP", LOCATED IN THE BASEMENT, USING MANUFACTURERS RECOMMENDED WIRING IN 3/4" E.C. CONTRACTOR SHALL PROVIDE AND EXTEND POWER/DATA FEEDS TO NEW FIRE ALARM DEVICE LOCATION. PROVIDE AND INSTALL ALL EXPANSION CARDS, WIRE, CONDUIT, RELAYS, POWER SUPPLIES, BATTERIES EXTENDERS, PROGRAMMING, MOUNTING HARDWARE, AND JUNCTION BOXES AS REQUIRED. COORDINATE EXACT MOUNTING LOCATION AND HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION. TYPICAL OF ALL FIRE ALARM DEVICES.

ADD/ALTERNATE NOTE:

A1. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS COST ASSOCIATED WITH THE INSTALLATION OF THE PRODUCTION LIGHTING IN ADD/ALTERNATE #3, ONLY.

PRODUCTION LIGHTING LEGEND (NOTE A1)

SYMBOL	DESCRIPTION	REMARKS
DM	EXISTING DIMMING RACK	-
LMC	EXISTING LIGHTING MIXING CONTROL CONSOLE	-



KeyPlan
SCALE:N.T.S.

H2M architects + engineers
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STATE OF NEW YORK · ANTHONY WOONGJIN KIM · 092583 · LICENSED PROFESSIONAL ENGINEER

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CONTRACT

CONTRACT E
ELECTRICAL CONSTRUCTION

STATUS

FINAL BID SET

SHEET TITLE

ELECTRICAL AUDITORIUM LIGHTING AND FIRE ALARM PLANS

DRAWING No.

EA 102.00

Panel Wiring Schedule (3-Phase)

Panelboard: EXISTING PANEL "AP1" | Voltage: 120/208 | Phase: 3 | Wire: 4 | AIC Rating: EXISTING
Manufacturer: SIEMENS | Mains: MLO | Mains Rating: 250 A
Panel Type: M1 | Mounting: SURFACE | Options: - | Note: EXISTING
NEMA Type Enclosure: 1

LOAD DESCRIPTION	BREAKER OPTION	TRIP AMPS & POLES	CONNECTED LOAD VOLT AMPERES ØA	ØB	ØC	CIRC. NO.	A	B	C	CIRC. NO.	CONNECTED LOAD VOLT AMPERES ØA	ØB	ØC	TRIP AMPS & POLES	BREAKER OPTION	LOAD DESCRIPTION
EXISTING		20A/1P	-			1				2	-			20A/2P		EXISTING
FRONT STAGE RECEPTACLE		20A/1P		720		3				4		-				
EXISTING		20A/2P			-	5				6	-					
						7				8		-		20A/2P		EXISTING
EXISTING		20A/2P				9				10		180		20A/1P		CEILING RECEPTACLE
			-			11				12			-			
EXISTING		20A/2P		-		13				14	-			30A/2P		EXISTING
					-	15				16		-				
EXISTING		20A/1P			-	17				18			1440	20A/1P		AUDITORIUM RECEPTAPLE
SOUND BOARD RECEPTACLE		20A/1P	360			19				20	-			-		SPACE
SOUND BOARD RECEPTACLE		20A/1P		360		21				22		-		-		SPACE
STAGE AND COVE LIGHTING		20A/1P			1522	23				24			180	20A/1P		PROJECTOR SCREEN
ACTIVE SPEAKER RECEPTACLE		20A/1P	360			25				26	1260			20A/1P		STAGE RECEPTACLE
AUDITORIUM LIGHTING		20A/1P		1470		27				28		261		20A/1P		LIGHTING/RECPTACLE
SPARE		20A/1P			-	29				30			90	20A/1P		CUH-1 AND TX-1

Connected Totals: ØA EXISTING KVA | ØB EXISTING KVA | ØC EXISTING KVA | Total EXISTING KVA | EXISTING Amperes

(All Phases to be balanced to within 7% using Actual Load Totals.)

Breaker Options:
AS - Powerlink AS Breaker
LO - Handle lock-off device
ST - Shunt Trip Type
AUX - Auxiliary Contacts
PA - Handle Padlock Attachment
GFCI - Ground Fault Circuit Interrupter
HACR - Heating, A/C & Refrigeration
SF - Subfeed
TC - Time Clock Control

Panel Wiring Schedule (3-Phase)

Panelboard: EXISTING PANEL "AP2" | Voltage: 120/208 | Phase: 3 | Wire: 4 | AIC Rating: EXISTING
Manufacturer: SIEMENS | Mains: MLO | Mains Rating: 250 A
Panel Type: M1 | Mounting: SURFACE | Options: - | Note: EXISTING
NEMA Type Enclosure: 1

LOAD DESCRIPTION	BREAKER OPTION	TRIP AMPS & POLES	CONNECTED LOAD VOLT AMPERES ØA	ØB	ØC	CIRC. NO.	A	B	C	CIRC. NO.	CONNECTED LOAD VOLT AMPERES ØA	ØB	ØC	TRIP AMPS & POLES	BREAKER OPTION	LOAD DESCRIPTION
EXISTING		20A/1P	-			1				2	-			20A/1P		EXISTING
EXISTING		20A/1P		-		3				4		-		20A/1P		EXISTING
EXISTING		20A/1P			-	5				6			-	20A/1P		EXISTING
EXISTING		20A/1P	-			7				8	-			20A/1P		EXISTING
EXISTING		20A/1P		-		9				10		-		20A/1P		EXISTING
EXISTING		20A/1P			-	11				12			-	20A/1P		EXISTING
EXISTING		20A/1P	-			13				14	-			20A/1P		EXISTING
EXISTING		20A/1P		-		15				16		-		20A/1P		EXISTING
EXISTING		20A/1P			-	17				18			-	20A/1P		EXISTING
EXISTING		20A/1P	-			19				20	-			20A/1P		EXISTING
EXISTING		15A/1P		-		21				22		-		20A/1P		EXISTING
EXISTING		20A/1P			-	23				24			-	20A/1P		EXISTING
BATHROOM SINK RECEPT.		20A/1P	180			25				26	-			20A/1P		EXISTING
BATHROOM HAND DRYER	GFCI	15A/1P		1000		27				28		-		-		SPACE
SPACE		-			-	29				30			-	-		SPACE

Connected Totals: ØA EXISTING KVA | ØB EXISTING KVA | ØC EXISTING KVA | Total EXISTING KVA | EXISTING Amperes

(All Phases to be balanced to within 7% using Actual Load Totals.)

Breaker Options:
AS - Powerlink AS Breaker
LO - Handle lock-off device
ST - Shunt Trip Type
AUX - Auxiliary Contacts
PA - Handle Padlock Attachment
GFCI - Ground Fault Circuit Interrupter
HACR - Heating, A/C & Refrigeration
SF - Subfeed
TC - Time Clock Control

Panel Wiring Schedule (3-Phase)

Panelboard: NAP | Voltage: 120/208 | Phase: 3 | Wire: 4 | AIC Rating: 22,000
Manufacturer: SIEMENS | Mains: 200A MCB | Mains Rating: 225A
Panel Type: P2 | Mounting: SURFACE | Options: - | Note: NOTE P1
NEMA Type Enclosure: 1

LOAD DESCRIPTION	BREAKER OPTION	TRIP AMPS & POLES	CONNECTED LOAD VOLT AMPERES ØA	ØB	ØC	CIRC. NO.	A	B	C	CIRC. NO.	CONNECTED LOAD VOLT AMPERES ØA	ØB	ØC	TRIP AMPS & POLES	BREAKER OPTION	LOAD DESCRIPTION
PIPE MOUNT PROD. LIGHTING		20A/1P	180			1				2	180			20A/1P		PIPE MOUNT PROD. LIGHTING
PIPE MOUNT PROD. LIGHTING		20A/1P		180		3				4		180		20A/1P		PIPE MOUNT PROD. LIGHTING
PIPE MOUNT PROD. LIGHTING		20A/1P			180	5				6			180	20A/1P		PIPE MOUNT PROD. LIGHTING
PIPE MOUNT PROD. LIGHTING		20A/1P	180			7				8	1800			20A/1P		SEAT POWER ROW 1 SECT. 1
PIPE MOUNT PROD. LIGHTING		20A/1P		180		9				10		1800		20A/1P		SEAT POWER ROW 1 SECT. 2
PIPE MOUNT PROD. LIGHTING		20A/1P			180	11				12			1800	20A/1P		SEAT POWER ROW 3 SECT. 1
SEAT POWER ROW 2 SECT. 1		20A/1P	1800			13				14	1800			20A/1P		SEAT POWER ROW 3 SECT. 2
SEAT POWER ROW 2 SECT. 2		20A/1P		1800		15				16		1800		20A/1P		SEAT POWER ROW 5 SECT. 1
SEAT POWER ROW 4 SECT. 1		20A/1P			1800	17				18			1800	20A/1P		SEAT POWER ROW 5 SECT. 2
SEAT POWER ROW 4 SECT. 2		20A/1P	1800			19				20	1800			20A/1P		SEAT POWER ROW 7 SECT. 1
SEAT POWER ROW 6 SECT. 1		20A/1P		1800		21				22		1800		20A/1P		SEAT POWER ROW 7 SECT. 2
SEAT POWER ROW 6 SECT. 2		20A/1P			1800	23				24			-	20A/1P		SPARE
SEAT POWER ROW 8 SECT. 1		20A/1P	1800			25				26	-			20A/1P		SPARE
SEAT POWER ROW 8 SECT. 2		20A/1P		1800		27				28		-		20A/1P		SPARE
SPARE		20A/1P			-	29				30			-	20A/1P		SPARE
SPARE		20A/1P	-			31				32	-			20A/1P		SPARE
SPARE		20A/1P		-		33				34		-		20A/1P		SPARE
SPARE		20A/1P			-	35				36			-	20A/1P		SPARE
SPARE		20A/1P				37				38	-			20A/1P		SPARE
SPARE		20A/1P				39				40		-		20A/1P		SPARE
SPARE		20A/1P			-	41				42			-	20A/1P		SPARE

Connected Totals: ØA 11.34 KVA | ØB 11.34 KVA | ØC 7.74 KVA | Total 30.42 KVA | 84.5 Amperes

(All Phases to be balanced to within 7% using Actual Load Totals.)

Breaker Options:
AS - Powerlink AS Breaker
LO - Handle lock-off device
ST - Shunt Trip Type
AUX - Auxiliary Contacts
PA - Handle Padlock Attachment
GFCI - Ground Fault Circuit Interrupter
HACR - Heating, A/C & Refrigeration
SF - Subfeed
TC - Time Clock Control

NOTES:

P1. CONTRACTOR SHALL PROVIDE A TYPED CIRCUIT DIRECTORY IN ACCORDANCE WITH NEC SECTIONS 110.22 AND 408.4. CIRCUITS SHALL BE LABELED WITH DETAILED INFORMATION DESCRIBING THE SWITCHES FUNCTION AND EQUIPMENT LOCATION.

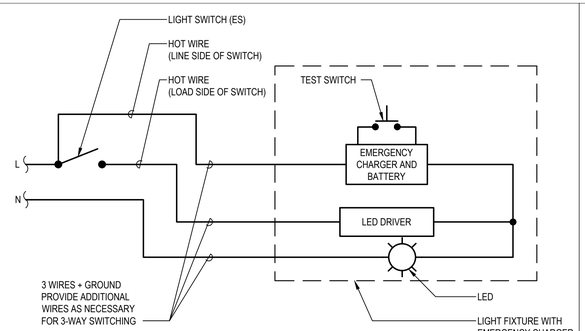
LIGHTING FIXTURE SCHEDULE

DESIGNATION	SYMBOL	MANUFACTURER	MODEL NUMBER	TYPE	WATTS	COLOR TEMP	VOLT	LUMENS	MOUNTING	REMARKS	MOUNTING HEIGHT	DETAIL
F1	O	PRESCOLITE	LTC-6RD-P-30L40K9MD-DM1-S-BL	LED	35	4000K	UNV	3000	PENDANT	18" STEM MOUNTED	CEILING	-
F2	▭	SSL	ECVLX10V-4-35K-120	LED	15.2/FIXTURE	4000K	UNV	1300	SURFACE	-	COVE	-
F3	▭	COLUMBIA	LCL4-40LVLED1U	LED	85	4000K	UNV	10400	PENDANT	NOTE LS2	19' AFF	-
F3E	▭	COLUMBIA	LCL4-40LVLED1U-ELL14	LED	85	4000K	UNV	10400	PENDANT	NOTES LS1, LS2	19' AFF	1 EA 300
F4E	▭	COLUMBIA	LAW4-40K-VW-ED1U-ELL14	LED	27	4000K	UNV	3346	SURFACE	NOTE LS1	CEILING	1 EA 300
PF1	▭	MARTIN	MARTIN-90480160	LED	148	VARIABLE	UNV	-	SURFACE	-	AS PER MANUFACTURES RECOMMENDATION	-
PF2	▭	MARTIN	MARTIN-9045107781	LED	280	3000K	UNV	7000	SURFACE	ELLIPSOIDAL FIXTURE W/26 DEGREE LENS	AS PER MANUFACTURES RECOMMENDATION	-
EM	EM	DUAL LITE	EV2	LED	2	-	UNV	-	SURFACE	NOTE LS1	7'-6" AFF, UON	1 EA 300
EX	EX	COMPASS	CCRG	LED	3.9	-	UNV	-	SURFACE	NOTE LS1	7'-6" AFF, UON	1 EA 300
OS	S	HUBBELL	LHMTS1-G-WH	-	-	-	UNV	-	RECESSED	WALL MOUNTED OCCUPANCY SENSOR SWITCH	46" AFF	-

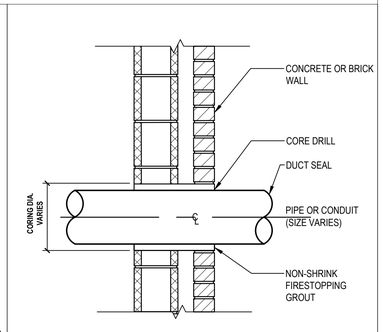
LIGHTING SCHEDULE NOTES:

LS1. EMERGENCY BATTERY BACKUP WITH 90 MINUTES OF BACK-UP CAPACITY

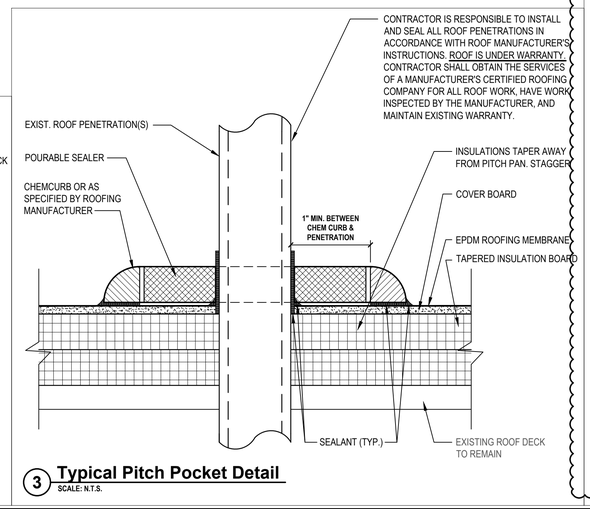
LS2. CONTRACTOR SHALL PROVIDE ACCESSORY 'CSHC' CHAIN HANGER ASSEMBLY WITH LIGHT FIXTURE.



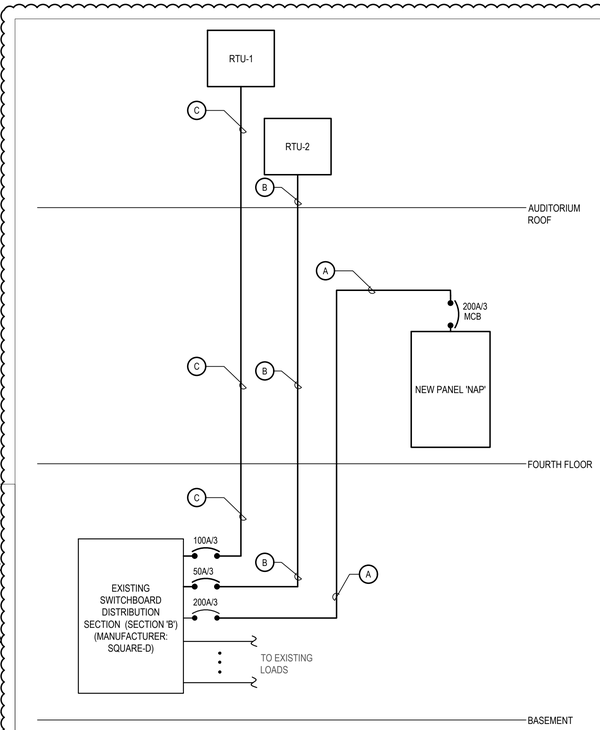
1 **Typical Detail of Light Fixture with Emergency Battery Backup**
SCALE:N.T.S.



2 **Typical Penetration Through Brick or Concrete Wall**
SCALE:N.T.S.



3 **Typical Pitch Pocket Detail**
SCALE: N.T.S.



4 **Partial Single Line Diagram (Note 1)**
SCALE:N.T.S.

SINGLE LINE DIAGRAM NOTE:

1. NOT ALL EXISTING CIRCUITS ARE SHOWN IN PARTIAL SINGLE LINE DIAGRAM FOR CLARITY PURPOSES. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION.

FEEDER SCHEDULE

FEEDER	CONDUCTOR AND CONDUITS FEEDER SCHEDULE
A	4 #3/0 AWG + #6 AWG GND IN 2-1/2" E.C.
B	3 #3 AWG + #4 AWG GND IN 1-1/4" E.C. (XHHW-2 CONDUCTORS) (RGS)
C	3 #1/0 AWG + #4 AWG GND IN 2" E.C. (XHHW-2 CONDUCTORS) (RGS)

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STATE OF NEW YORK — MATTHEW WOODWARD — 092583 — LICENSED PROFESSIONAL ENGINEER

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DJH	DJH		

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ELECTRICAL SCHEDULES AND DETAILS

DRAWING No.
EA 300.00

PART 1 - GENERAL - LIGHTING & DIMMING

1.01 WORK INCLUDED

A. The Electrical Contractor, as part of the work of this section, shall provide, install and test a complete lighting control system as specified herein for areas indicated on the drawings and circuit schedules.

B. The Electrical Contractor shall hire a Theatrical Systems Integrator as described below.

C. The Electrical Contractor shall furnish all conduit, wire, connectors, hardware and other incidental items necessary for the complete and proper operation of the lighting control system.

D. The Electrical Contractor shall coordinate all work described in this section with all other applicable plans and specifications, including but not limited to:
   1. General Conditions
   2. Electrical Section General Provisions
   3. Conduit
   4. Wire and Cable

E. All rigging equipment and detailed design shall be submitted to the architect for review. All drawings, schedules, and details shall be reviewed and stamped by a NY Stamp Licensed Professional Engineer. The costs for this shall be included in base bid.

1.02 SYSTEM DESCRIPTION

A. The system shall be designed for the control of architectural and theatrical lighting and shall consist of factory pre-wired dimming and processing rack enclosures containing dimmers, relays, power supplies, breakers, terminals and/or control electronics.

B. System shall work in conjunction with specified low-voltage control stations.

1.03 SUBMITTALS

A. Manufacturer shall provide 2 sets of full system submittals. Submittals shall include:
   1. Full system riser diagram(s) illustrating interconnection of system components, wiring requirements, back box sizes and any special installation considerations.
   2. Full set of printed technical data sheets.
   3. Detailed set of dimmer schedules
   4. Detailed set of circuit and control schedules, including a complete list of all deviations from specifications.

B. Manufacturer shall provide any additional information, including equipment demonstrations, as required by the engineer or specifier to verify compliance with specifications.

1.04 QUALITY ASSURANCE

A. Manufacturer shall be one who has been continuously engaged in the manufacturer of lighting control equipment for a minimum of ten years. All dimmer and cabinet fabrication must take place in a U.S. manufacturing plant.

B. The manufacturer shall have a factory authorized stocking service center with at least one full time service technician on staff located within 150 miles of the job site. In addition, the manufacturer shall have a toll free 24-hour hotline with a maximum response time of 20 minutes, 24 hours a day and 365 days a year.

C. All equipment, where applicable standards have been established, shall be built to the standards of Underwriters Laboratories, Inc., the National Electric Code and the United States Institute for Theater Technology. Permanently installed power distribution equipment such as dimmer racks and distribution shall be UL and C-UL Listed, and/or CE marked (where applicable) and bear the appropriate labels. Portable equipment such as consoles and fixtures shall be UL and C-UL Listed, ETL Listed and/or CE marked (where applicable) and bear the appropriate labels.

1.05 ACCEPTABLE MANUFACTURERS

A. The equipment herein specified shall be manufactured (Alphabetical order) by:
   1. ADC, 2121 South 12th Street, Allentown, PA 18103. Phone: 610-797-6000 Fax: 610-797-4088
   2. Altman Lighting, 57 Alexander Street, Yonkers, NY 10701. Phone: 914-476-7987
   3. Aquarii, Inc., 17 Genesee Street, Camillus, NY 13031.
   4. CANTO USA, 1092 West Atlanta Street, SE, Suite 300, Marietta, GA 30060. Phone: 888-252-5912
   5. Electronic Theatre Controls, Inc., PO Box 620979, Middleton, WI 53562. Phone: 608-831-4116 Fax: 608-836-1736
   6. Pathway Connectivity, Acuity Brands Lighting Canada, #103 - 1439 17th Avenue SE, Calgary AB T2G 1J9, Canada. Phone: 403 243 8110 Fax: 403 287 1281
   7. Stage Decoration & Supplies, Inc., 3519 Associate Drive, Greensboro, NC 27405. Phone: 336-621-5454 Fax: 336-621-5484
   8. SSRC Inc., 170 Fortis Drive, Ducan SC 29334. Phone: 864-848-9770 Fax: 964-848-3746

B. Alternative manufacturers must submit a full pre-approval package ten days prior to bid date. Package shall consist of items listed in Article I, Section 1.03A.

C. Permission to bid does not imply acceptance of the manufacturer. It is the sole responsibility of the Electrical Contractor to ensure that any price quotations received and submittals made are for controls systems that meet or exceed the specifications.

1.06 THEATRICAL SYSTEMS INTEGRATOR

A. The Electrical Contractor shall hire a Theatrical Systems Integrator. The provider of the system herein described shall be acknowledged in business as a Theatrical Systems Integrator (herein referred to as “TSI”). The role of the TSI in this project shall be to provide all equipment listed in this section to the Electrical Contractor for installation. The TSI shall furnish a complete working system to the Electrical Contractor, meeting the intent of this specification. The TSI shall coordinate delivery schedules and installation of equipment with Electrical Contractor. Additionally, the TSI shall be responsible for all documentation for equipment in this section, system record drawings, final testing of the system and training of the Owner’s personnel as required by this specification.

B. The TSI shall have experience in the operation and installation of similar equipment associated with the construction and/or renovation of facilities similar in scope to this project.

C. The TSI shall have been in business for a minimum of 15 consecutive years and shall have no history of bankruptcy.

D. The TSI shall be an authorized dealer for an adequate number of manufacturers of system products necessary to provide a complete working system meeting the intent of this specification. System products shall include but are not limited to the following:
   1. Dimming / Relay Equipment
   2. Control System

3. Lighting Fixtures
4. Power Distribution
5. Stage Accessories
6. Stage Tracks and Draperies
7. Deadhung Rigging pipes and Motorized Stage rigging

E. The TSI shall be located within 50 miles of the job-site.

F. The TSI shall have on staff at least two full-time manufacturer-certified field service technicians and have technical support and assistance accessible 24 hours a day, seven days a week.

G. The TSI shall offer a Maintenance and Service Contract.

H. The TSI shall provide a one-year system warranty for the complete system, not including expendable supplies, effective from the date of system acceptance. Within this warranty period, the TSI shall be responsible as the Owner's sole contact for the remedy, repair, or replacement of system deficiencies (through the manufacturer's warranty where applicable).

I. Approved Theatrical Systems Integration Companies Shall Be:
1. Barbizon Electric, 456 W. 55th Street, New York, NY 10019. Phone: (212) 586-1620 Fax: (212) 586-6935 - Eric Delhauer
2. Or approved equal company that can meet or exceed the requirements of the specified equipment and installation.

PART 2 - GENERAL REQUIREMENTS

2.01 RELATED DOCUMENTS

A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to work of this section.

2.02 GOVERNING CLAUSE

A. For the sake of brevity, these specifications shall omit phrases such as "Contractor shall furnish and install", "unless otherwise indicated or specified", etc., but these phrases are nevertheless implied. Mention of materials and operations requires the Contractor to furnish and install such materials and perform such operations completely to the satisfaction of the owner's representative.

2.03 SCOPE OF WORK

A. One company shall be responsible for the installation of all aspects of the stage rigging equipment. Work under this section shall include furnishing all labor, materials, tools, transportation services, supervision, etc., necessary to complete installation of the stage rigging equipment as well as any other items as herein listed, all as described in these specifications, as illustrated on the accompanying drawings; or as directed by the Owner's Representative. Work included is as per specifications and drawings.

2.04 SUBSTITUTIONS:

A. Specific items of equipment are specified by trade names. It has been determined by the systems designer that these are the particular items desired by the Owner and establish a standard of quality, equipment function and/or process. It is not the purpose or intent of these documents to eliminate competitive bids. In order to allow proper and fair comparison of pricing, contractors are required to submit their base bid price on the specified equipment. A contractor may submit an alternate bid based on equipment different from that specified only if that

Contractor has received prior approval in writing from the Architect at least 10 days prior to bid. Accompanying each request shall be a letter specifically detailing each substitution including catalog data, specifications, operative samples, technical information, drawings, performance and test data, and complete descriptive and functional information to assist in a fair evaluation. Failure to submit any substitution for prior approval or not providing sufficient data for evaluation shall require the exact item specified to be furnished. Architect's approval of a substitution for bid purposes will not relieve the contractor from the responsibility of meeting all specification criteria. If an approval of a substitution is granted, the Contractor shall be fully responsible for any and all changes (wiring, power, distribution, support structure, etc.) such substitution shall require.

2.05 DEFECTIVE OR NON-APPROVED MATERIALS

A. Should any equipment be found defective, not meeting specifications, or that which has not been approved in writing by the Architect shall, upon discovery (including any time within the period of the guarantee), be replaced with the specified equipment or material at no additional cost.

2.06 GUARANTEE

A. The Contractor shall guarantee all of the work that is performed under this contract, including all materials, and workmanship, for a period of three (3) years from the date of full acceptance of the work in accordance with the following conditions.

B. Warranty shall be in effect on materials and equipment for three years from the date of system commissioning under the following conditions:
   1. Maintaining the warranty in effect requires annual inspection of the system by a factory trained and certified contractor. Continuing annual inspection is strongly encouraged.
   2. The three year warranty is contingent upon annual inspection at the end of the first and second years of service. The end user is responsible for making arrangements for each inspection with the contractor identified on the Motor Controller or a factory certified inspector/installer.
   3. In the event annual inspection is not requested and performed at the end of the first or second year of service, the warranty shall become void at the end of that year of service.
   4. Each warranty inspection report must be sent to the factory by the inspecting contractor within 10 days of completing the inspection.

C. Nothing in this guarantee shall cause repair or replacement by the Contractor where negligence, neglect or improper operation by the Owner has caused the failure of any equipment installed under this contract.

2.07 DISCREPANCIES

A. All equipment shall be sized to fit properly. The exact measurements are the responsibility of the Contractor. If there are discrepancies in the specifications, the Contractor shall ask for a clarification from the Architect. If no clarification is requested, the Architect's judgment shall rule.

2.08 THEATRICAL SYSTEMS INTEGRATOR

A. The Contractor shall utilize the Theatrical Systems Integrator (herein referred to as “TSI”) to coordinate and assist in the installation of all aspects of the motorized rigging equipment as specified in this section. This shall include but not be limited to all motorized rigging and miscellaneous equipment.

B. In order to be considered as the TSI on this project, each Contractor requesting approval must submit to the Architect at least ten (10) days prior to the date of bid opening a letter expressing

his intent to bid. This letter shall include a list of at least five (5) projects of similar size and scope completed by this firm within the last five (5) years. Inspection of one completed installation may be requested by the Architect/Engineer's Representative prior to consideration of request to bid. the TSI shall have been in business under the same name for five (5) full years preceding the date of this bid doing work similar to the type specified. ETCP certification in theatre rigging is required by the lead installer or project manager of the TSI to receive approval to bid. Verification of this certification must be provided to be considered for approval. The decision of the Architect as to the capability of the Bidder to successfully complete and maintain the system based on this pre-qualification information shall be final.

C. Pre-Bid request letter shall include a statement that all major items of equipment shall be bid and supplied as specified, or shall contain details of all proposed substitute equipment for review by the Architect/Engineer's Representative. Substitute equipment items to include specifications, parts numbers, and details of interconnection to proposed system. The decision of the Architect as to the acceptability of substitute equipment shall be final.

D. The TSI shall employ only fully trained stage riggers and mechanics, for the erection of the stage equipment. The stage riggers shall be completely familiar with the type of equipment to be installed. A competent job superintendent shall be on the job at all times when work is in progress. The job superintendent must be ETCP certified in theatre rigging. A copy of the certification must be furnished to the General Contractor prior to the start of the installation.

2.09 DOCUMENTATION

A. SHOP DRAWINGS: Shop drawings and equipment data sheets shall be submitted to the Architect under general provisions within 45 days after award of the contract. Failure to comply with this 45 day requirement shall be cause for disqualification of the selected Contractor and cancellation of contract without cost to the owner, on the basis that the selected Contractor does not have the ability or intention to comply with the specifications. Approval of submitted equipment shall be obtained prior to equipment purchase or fabrication. If shop drawings are rejected, correct and resubmit in the manner specified. All shop drawing information shall be submitted at the same time; no partial submittal shall be accepted. Drawings shall indicate complete details, dimensions, product types and locations of all equipment, clearances required, guides, cables, sets, Contractor fabricated equipment, and all other details required to completely describe the work to be performed. Submittals drawings shall be presented at a scale not less than 1/4" for equipment layouts and ½" = 1'-0" for equipment details, mounting and other details. Each sheet shall allow space for approval stamps and have the name of the project, the Contractors and/or the supplier's name, address telephone number, and the date submitted. Submit the following items for Architect's approval, prior to fabrication:
   1. Stage plan view
   2. Stage side section view
   3. Gridiron layout indicating all stage equipment - stamped by Professional Engineer.
   4. Electrical riser diagrams indicating the necessary power and control wiring for all rigging equipment and systems
   5. Plan and elevation views indicating all power, motor and control hardware locations and layout
   6. Provide full dimensions for panel layouts with finishes and materials for all custom panels
   7. Details of installation and erection, including adjoining conditions and necessary clearances - **stamped by NY State Professional Engineer.**
   8. Indication by arrow and boxed caption of each variation from contract drawing and specifications, except those indicated as acceptable in specifications or on drawings

B. RECORD DRAWINGS AND DATA: Submit in accordance with General Provisions. Within 30 days of final test and completion of the installation, submit the following to the Architect:

1. Three (3) complete sets of "as built and approved" drawings showing systems and elements as installed, including field modifications and adjustments - **stamped by NY State Professional Engineer.**
2. Three (3) sets of maintenance data including a list indicating replacement parts lists for all items of equipment, wiring diagrams, control diagrams, any and all keys for cabinets, racks, key operated switches etc. and complete operation manuals.
3. Three (3) Certificates of Guarantee

C. INSTRUCTION OF OWNER PERSONNEL: This contractor or his/her representative, fully knowledgeable and qualified in systems operation, shall provide four (4) hours of instruction to the Owner-designated personnel on the use and operation of this System. Designated instruction times shall be arranged through the Architect.

D. PERMITS: Obtain all permits necessary for the execution of any work pertaining to the installation, and conform in all trades with all applicable local codes and national codes. Obtain all permits necessary for operation of any equipment by the Owner.

E. CLEAN UP: It shall be the responsibility of this Contractor to remove all debris from the building or site caused by his operations to a common trash point or receptacle on the job site, as determined by the General Contractor.

F. NY State Professional Engineer Stamp - The contractor shall have all rigging plans including submittals and as-built drawings stamped by a NY State Professional Engineer. All fees shall be included in base bid.

PART 3 - PRODUCTS

ITEM	MANUFACTURER AND MODEL	QUANTITY
RUSH BATTEN 1 HEX	MARTIN-90480160	FIFTEEN (15)
ELLIPSOIDAL WARM WHITE	MARTIN-9045107781	EIGHT (8)
ELLIPSOIDAL 26 DEGREE LENS TUBE	MARTIN-9045107783	EIGHT (8)
DMX 5.3 SPLITTER	MARTIN-90758140	ONE (1)
DUAL 20A CONSTANT VOLTAGE MODULE	ETC CC20	FOUR (4)
TOUCHSCREEN LCD MONITOR	DELL P2418HT	ONE (1)
CUESERVER 2 PRO LIGHTING CONTROL	INTERACTIVE TECH CS-900	ONE (1)
ALUMINIUM CHESEBORO (PRO BURGERS)	MH HR2019A	ONE (1)
BLACK SAFETY CABLE - 30 INCHES	SLS	FIFTEEN (15)
DMX 5 PIN LIGHTING CABLE 50FT	PROCO-DMX5-50	FOUR (4)
DMX 5 PIN LIGHTING CABLE 15FT	PROCO-DMX5-15	THIRTY-TWO (32)
PWRCON/20F-10	RHC-PWRCON/20F-10	THIRTY-TWO (32)
PWRCON/20F-25	RHC-PWRCON/20F-25	FOUR (4)
PWRCON/20F-50	RHC-PWRCON/20F-50	FOUR (4)

PART 4 - EXECUTION

4.01 INSTALLATION

A. It shall be the responsibility of the Electrical Contractor to receive and store the necessary materials and equipment for installation of the dimmer system. It is the intent of these specifications and plans to include everything required for proper and complete installation and operation of the dimming system, even though every item may not be specifically mentioned.

The Contractor shall deliver on a timely basis to other trades any equipment that must be installed during construction.

B. The Electrical Contractor shall be responsible for field measurements and coordinating physical size of all equipment with the architectural requirements of the spaces into which they are to be installed.

C. The Electrical Contractor shall be responsible for removal and disposal of all waste materials created by this installation process including but not limited to:
   1. Shipping and packaging materials.
   2. Items removed from existing system.

D. The Electrical Contractor shall be responsible for all lifts, ladders, scaffolding and/or other devices required for the complete installation of this system.

E. The Electrical Contractor shall be responsible for all painting and patching that may be required as a product of this installation process.

F. The Electrical Contractor shall run all conduit so that it is concealed above hung ceiling, below floors or in walls whenever possible. Any exposed conduit shall be run in an aesthetically pleasing manner and painted to match existing conditions.

G. The Electrical Contractor shall install all lighting control and dimming equipment in accordance with manufacturer's approved shop drawings. All minimum spacing requirements between 120/208V and various low voltage wire types must be maintained. All installation must be in accordance with National, State and Local codes.

H. The Electrical Contractor shall be responsible for resolving all Union disputes and jurisdictional issues.

I. All branch load circuits shall be live tested before connecting the loads to the dimmer system load terminals. Each circuit shall require separate neutrals.

J. It shall be the responsibility of the Electrical Contractor to provide all bonding, job permits and related fees as applicable.

K. The Electrical Contractor shall provide a copy of their License to operate as an Electrical Contractor in the state of New Jersey / New York. The Electrical Contractor shall also submit an Insurance Certificate for this project.

L. The Electrical Contractor shall be responsible for coordinating the installation and configuration of this system with the Theatrical Systems Integrator.

4.02 THEATRICAL SYSTEMS INTEGRATOR'S SERVICES

A. Upon completion of the installation, including testing of load circuits, the contractor shall notify the Theatrical Systems Integrator's (herein referred to as "TSI") Project Manager that the system is available for formal checkout by the dimming system manufacturer.

B. Notification shall be provided in writing, 21 days prior to the time factory-trained personnel are needed on the job site.

C. No power is to be applied to the dimming system unless specifically authorized by written instructions from the TSI's Project Manager.

D. The purchaser shall be liable for any return visits by the factory engineer as a result of incomplete or incorrect wiring.

E. Upon completion of the formal check-out, the factory engineer shall demonstrate operation and maintenance of the system to the Owner's Representatives. Training session shall not exceed four working hours.

F. A second training session shall be provided six months after the first training session. Training session shall not exceed four working hours. Additional training shall be available for purchase. Scheduling for training sessions shall be made in writing, 21 days prior to the time factory-trained personnel are needed on the job site.

4.03 RECORD DRAWINGS AND MANUALS

A. Record Drawings
   1. The TSI shall submit two sets of full sized Record Drawings to the Owner for final acceptance. These drawings shall be fully revised and reflect the actual finished installation. The drawing set shall be 100% complete and shall include all schematics, details and Bill of Materials for future maintenance and repair of all systems supplied by the TSI.
      a. Each drawing shall be dated and stamped as a Record Drawing.
      b. Each rigging drawing shall be stamped by NY State PE.
      c. Prints shall be full sized, stapled into sets. They shall be fully legible.
      d. Any future revisions or modifications during the warranty period shall require that the Owner's Record Drawings be updated also.

B. The TSI shall provide a Repertory Lighting Plot for the purpose of hanging and focusing theatrical lighting fixtures prior to project completion.

C. Manuals
   1. Manuals shall be bound by the TSI in loose-leaf binders and labeled with tabbed dividers for easy reference.
   2. The TSI shall provide two sets of Instructions and Maintenance manuals to the Owner. The manuals shall consist of, but not be limited to:
      a. System Description
      b. User Operating Instructions
      c. User Maintenance Instructions
      d. Catalogue Cut Sheets from all equipment purchased
      e. Spare Parts Listing
      f. 11" x 17" reduced drawings of all system assemble drawings needed to perform system maintenance.

4.04 WARRANTY

A. Manufacturer shall warrant products under normal use and service to be free from defects in materials and workmanship for a period of two years from date of delivery.

B. Warranty shall cover repair or replacement of such parts determined defective upon inspection.

C. Warranty does not cover any product or part of a product subject to accident, negligence, alteration, abuse or misuse. Warranty does not cover any accessories or parts not supplied by the manufacturer.

D. Warranty shall not cover any labor expended or materials used to repair any equipment without manufacturer's prior written authorization.

4.05 MANUFACTURER'S SERVICES

A. Upon completion of the installation, including testing of load circuits, the contractor shall notify the dimming system manufacturer that the system is available for formal checkout.

B. Notification shall be provided in writing, two weeks prior to the time that factory-trained personnel are needed on the job site.

C. No power is to be applied to the dimming system unless specifically authorized by written instructions from the manufacturer.

D. The purchaser shall be liable for any return visits by the factory engineer as a result of incomplete or incorrect wiring.

E. Upon completion of the formal check-out, the factory engineer shall demonstrate operation and maintenance of the system to the owner's representatives. Training shall not exceed four working hours. Additional training shall be available upon request.

4.06 **RIGGING INSTALLATION - GENERAL**

A. The intent of this specification is to define parameters for furnishing and installing a Motorized Rigging System to the owner. The system is designed to meet the specific operational requirements of the Project. Performance deviations will not be accepted. All Stage Rigging Equipment furnished for this Theatrical application shall be the product of one Manufacturer, and supplied to the Rigging Contractor for installation. Prior to purchasing any rigging equipment, the contractor shall submit drawings reviewed, stamped, and signed by a NY State Professional Engineer. Drawings shall include all material to be used, rated weights, mounted equipment, and attachment points.

B. The scope of this work shall include the following:
   1. The Rigging System shall be furnished and Installed by the trained theatrical rigging installers. The entire installation of the Rigging System shall include:
      a. Unloading and transporting the hoists into the venue.
      b. The Rigging Contractor shall confirm the Location, Orientation and dimensions of the Building Steel in order to assure that the mounting of the Hoist Modules to the Building Steel can be accomplished in the manner in which it was specified
      c. Wiring the 3 phase 208v feed and Control to the Hoist Motors
      d. Provide the wiring, load terminations for the load circuits and wire the flat cable (provided by the manufacturer) to the terminals in the terminal compartment of the Connector Strip
      e. Provide the 3 phase 208v feed to each Hoist through the emergency stop motor rated contactor sized appropriately for all 1.5HP 309lb Self climbing Hoist which shall shut off all power to all of the Hoist Motors.
      f. Provide and Install a Wall Mounted Nema 1 Enclosure, U.L Tested and Listed, to house the Hoist Emergency Contactors and Branch Protection System properly sized for each of the 1.1 kw/1.5HP Self climbing Hoist motors.
      g. The Electrical Contractor shall make all electrical connections between the various system components and supply all necessary labor and electrical components including, (wire, pipe, hardware, and etc.)
      h. It shall be the responsibility of the Electrical Contractor to provide a complete working system to the owner at completion
   2. The Rigging Contractor shall provide all of the motorized hoist hardware to the project. All hoists and associated hardware including wiring raceways and pipe shall be furnished by the Hoist Manufacturer and be U.L. Listed and approved as a complete system including the Control System and Electrical Enclosure. The Rigging Equipment shall be installed by

Rigging or Electrical Contractor and shall meet all local code requirements under supervision of TSI. All components necessary to make the system a working network shall be included in the bid. Actual length of network cabling and system layout shall be verified during the project approval process.

3. Line voltage wiring shall be terminated per drawings and specifications by the Electrical Contractor and shall be tested for shorts and other damage prior to system energization.
4. Line voltage wiring is to have one hot wire and one neutral wire per circuit for every circuit in the house and stage lighting Systems. DO NOT COMMON NEUTRALS. Provide additional grounds as required.
5. The Electrical Contractor shall wire the hoists via a terminal boxes provider by the Electrical Contractor. From the terminal box, the Contractor shall wire the load circuits to the load terminal compartment of the Hoist located on the diverter pulley side of the Mini Hoist and the terminal boxes mounted between the diverter pulleys on the Batten Hoist. The Electrical Contractor shall also provide a three phase / 208 volt power feed to accommodate the 1.1 KW/2.2 AMP Self climbing Hoist motors. The 3-phase power feed along with 24 volt DC control wiring shall terminate in the terminal compartment of the motor module of the Hoist. In all of the Hoists carrying load circuits, the load circuits to the connector strip shall be via the U.L. flat folding cable. The length of the cable that is required for each cable management system shall be determined by the travel distance. The Batten Hoist's flat folding cable shall be pre-wired from the factory but terminated by the Electrical Contractor at the terminal box and in the connector strips.
6. The Electrical Contractor shall furnish and install an electrical enclosure to house the (5) 3 pole motor rated circuit breakers, for the circuit protection of each 1.1 KW three phase 1.5HP three phase motor for the Stage Hoist.
7. Provide Motor Rated Contactors for the Emergency Stop Button mounted in the Control System. All auxiliary electrical equipment and electrical disconnects / breakers shall be supplied by the Electrical Contractor and shall not be the responsibility of the Hoist manufacturer or their agent. The Electrical Contractor is to provide and install control panel locations, control receptacles boxes, etc., as indicated.
8. The Electrical Contractor shall install any new wiring devices as specified or as indicated on the Approved System Rigging Submittal Drawings.
9. The 1" ½ schedule 40 black iron pipe is to be supplied by the Manufacturer. Joints are to be seamed with internal pipe sleeves.
10. The owner shall have the option of videotaping any training sessions of the hoist system provided by the Manufacturer if they so choose. Videotaping shall not be the responsibility of the Contractor.

4.07 **DRAWINGS**

A. Drawings shall be furnished as follows:
   1. Six sets of B-size drawings shall be furnished for approval within 30 days of award of contract. Prior to fabrication of equipment, one set shall be returned appropriately marked as the approval document.
   2. The Rigging Contractor shall be furnished with up to four sets of B size drawings for his/her use.
   3. The owner shall be supplied with two sets of "as-built" drawings at the completion of the installation. These drawings shall be part of an operations and maintenance manual covering all major items installed.
   4. All manufactures other than the three approved manufactures listed below must submit to the Architect, 10 Days prior to the Bid Date, drawings and or samples of the Equipment which would be consider either equal of superior to the equipment being specified.
   5. All rigging drawings shall be reviewed and stamped by a NY State Professional Engineer.

4.08 APPROVED RIGGING MANUFACTURERS

A. Desisti Lighting

B. Secoa

C. Peter Albercht Company Inc.

4.09 QUALITY ASSURANCE

A. To ensure a uniform installation and single responsibility, the motor rigging system shall be the product of one manufacturer. This manufacturer shall have manufactured motorized rigging equipment and controls for a minimum of 10 years and provide a list of 25 similar projects installed and operational in the United States. Manufacturers, who only assemble components supplied by others (even if that component is private labeled) are excluded from this bid. Mixing of equipment brands shall not be acceptable.

B. The manufacturer shall employ a factory trained service technician available to provide technical assistance via a 24hour hot line. The factory technician shall be available and capable of both supervising the installation and energizing the system.

4.10 STANDARDS

A. All Stage Hoists shall comply with all the safety standards of the three internationally recognized testing authorities who publish safety standards specifically written for hoist safety. Those authorities shall include TUF, the German Safety Standard, the DIN #15560 standard, part 46, safety standards (Worldwide safety standard form suspension systems mounted above an assemble of people).

B. Any product submitted for approval must be TUF certified and U.L. Approved and carry the U.L. label tested and approved as a complete system. Adding UL approved components to a Hoist System that was not tested as part of the complete system will not be approved.

4.11 SUBSTITUTIONS

A. The motorized rigging equipment specified is the result of efforts on the part of the owner to select equipment for reliability, ease of maintenance and suitability for the owners' purposes. The system shall be based on equipment as manufactured by DeSisti Lighting, 1011 Route 22 East Unit D - Mountainside, NJ or approved equal.

B. All other proposals for equipment from other manufacturers will be considered as alternate only. There will be no other equipment approved prior to bid. The price for alternate equipment must be identified as an alternate bid and the amount stated as an addition or deduction to the base bid.

C. Submittals shall include but not be limited to complete bill of materials; one line control riser that identifies, by product name, all rigging and rigging control equipment as well as wire types and counts; cut sheets on all proposed equipment showing full technical specifications, and a document identifying all deviations from this specification.

D. Any revision or addition to the wiring required by substitute equipment shall be the responsibility of the substituting The Rigging Contractor. This Rigging Contractor shall also be responsible for any additional architectural or engineering fees occasioned by the necessity of evaluating alternate proposals.

4.12 **FABRICATION**

A. Fabrication shall begin only after approved drawings and a written notice to proceed have been delivered to the manufacturer at the manufacturer's place of business.

4.13 **ENERGIZATION**

A. A qualified engineer employed full time by the manufacturer shall visit the job site after installation is complete and prior to the energization of the system to inspect, test and adjust the system. She/he shall also at that time instruct the owners' representatives in the operation and maintenance of the system. These services shall be included in the base bid and include two days of site time.

4.14 **WARRANTY**

A. DeSisti Lighting (or approved equal) warrants to the original owner or a retail customer that for a period of one year from date of delivery, or energization of the permanently installed system, its products will be free from defects in materials and workmanship under normal use and service.

4.15 **MANUFACTURER'S SERVICE**

A. Services shall be provided directly by the manufacturer and return calls shall be made within 24 hours by a factory technician.

END OF SECTION

FINISH SCHEDULE

LEVEL	ROOM NO.	ROOM NAME	SQ. FT	FLOOR MAT'L	FLOOR FINISH	WALLS NORTH MAT'L	WALLS NORTH FINISH	WALLS EAST MAT'L	WALLS EAST FINISH	WALLS SOUTH MAT'L	WALLS SOUTH FINISH	WALLS WEST MAT'L	WALLS WEST FINISH	CEILING MAT'L	CEILING FINISH	REMARKS
FOURTH FLOOR	401	AUDITORIUM	3250	HDWD	ST / PU	PL / WP	PT / ST	PL / WP	PT / ST	PL / WP	PT / ST	PL / WP	PT / ST	PL	PT	SEE SCHEDULE NOTES 1 THRU 7 AND 9 BELOW
	401A	STAGE	1129	HDWD	ST / PU	PL	PT	PL	PT	PL	PT	PL	PT	PL	PT	SEE SCHEDULE NOTES 2, 3 AND 4 BELOW
	401B	STAGE STORAGE	35 +/-	HDWD	ST / PU	PL	PT	PL	PT	PL	PT	PL	PT	PL	PT	SEE SCHEDULE NOTES 2, 3 AND 4 BELOW
	401C	AUDITORIUM STORAGE	60 +/-	HDWD	ST / PU	PL	PT	PL	PT	PL	PT	PL	PT	PL	PT	SEE SCHEDULE NOTES 2, 3 AND 4 BELOW
	401D	STAGE MEZZANINE	101	HDWD	ST / PU	PL	PT	PL	PT	PL	PT	PL	PT	PL	PT	SEE SCHEDULE NOTES 1 THRU 4, 7 AND 9 BELOW
	402	LOBBY	428	HDWD	ST / PU	PL	PT	PL	PT	PL	PT	PL	PT	PL	PT	SEE SCHEDULE NOTES 2, 3, 4, 7,8 AND 11 BELOW
	402A	LOBBY STORAGE	91	HDWD	ST / PU	PL	PT	PL	PT	PL	PT	PL	PT	PL	PT	SEE SCHEDULE NOTES 2, 3, 4, 7,8 AND 11 BELOW
		STAIR C	202	HDWD	ST / PU	PL / GWB	PT	PL / GWB	PT	PL / GWB	PT	PL / GWB	PT	PL	PT	SEE SCHEDULE NOTES 2, 3, 4, 7 AND 10 BELOW
		STAIR H	207	HDWD	ST / PU	PL / GWB	PT	PL / GWB	PT	PL / GWB	PT	PL / GWB	PT	PL	PT	SEE SCHEDULE NOTES 2, 3, 4 AND 7 BELOW
FOURTH FLOOR MEZZANINE	500	HALLWAY	375+/-	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	NO FINISH WORK IN AREA
	501	STORAGE ROOM	93	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	NO FINISH WORK IN AREA
	502	STORAGE ROOM	104	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	NO FINISH WORK IN AREA
	503	MECH. ROOM	43	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	NO FINISH WORK IN AREA

FINISH SCHEDULE NOTES:

1. SEE DRAWINGS FOR PERCENTAGES OF WALL AND CEILING FINISH REPAIRS REQUIRED WITH BID. PREPARE, PRIME AND PAINT ALL SURFACES (REPAIRED AND EXISTING) FOR COMPLETE COVERAGE OF ALL SURFACES INCLUDING LIGHT SHELF REFLECTIVE SURFACES AT TIERED CEILINGS.
2. PAINT ALL METALS, INCLUDING BUT NOT LIMITED TO; METAL DOOR FRAMES AND HOLLOW METAL DOORS, RAILS, GUARDRAILS, LADDERS AND RADIATOR COVERS. STAIN WOOD DOORS, CASINGS AND FRAMES AND FINISH WITH POLYURETHANE IN SHEEN SELECTED.
3. SEE DRAWINGS FOR WALL OPENINGS TO BE INFILLED AND FINISHED WITH PLASTER TO MATCH FLUSH WITH ADJOINING SURFACE IN TEXTURE TO MATCH. PRIME AND PAINT IN COLOR SELECTED BY THE DISTRICT.
4. PATCH HOLES, CRACKS AND HOLLOWS AT WALL AND FLOOR SUBSTRATES, LEVEL AND FLUSH IN TEXTURES TO MATCH EXISTING INCLUDING AT ALL REMOVED ELEMENTS, INCLUDING LIGHTING, RADIATORS, AND EQUIPMENT NOTED.
5. SEE FLOOR PLAN FOR CARPET RUNNER LOCATIONS. PROVIDE COMPATIBLE CONTINUOUS CARPET EDGE TRANSITION STRIP IN PROFILE AND COLOR AS SELECTED BY THE OWNER.
6. FINISH WOOD PANEL / TRIM SYSTEMS (SEE AA 500.00 AND AA 501.00), WOOD RAILINGS AND HANDRAILS WITH STAIN AND POLYURETHANE IN COLOR AND SHEEN AS SELECTED BY THE OWNER
7. RE-INSTALL ALL REMOVED EQUIPMENT AFTER RE-FINISHING AS DIRECTED. CAULK ALL WALL / CEILING INTERFACE JOINTS PRIOR TO PAINTING.
8. SEE DRAWINGS AA 401.00 AND AA 402.00 FOR TOLIET ROOM FINISHES REQUIRED WITH ALTERNATE BID ITEMS.
9. SEE DRAWINGS FOR EXISTING SUPPORT SYSTEMS TO REMAIN AND BE PREPARED. PRIMED AND PAINTED BY THIS CONTRACT TO READY CONSTRUCTION FOR VENDOR SUPPLIED EQUIPMENT.
10. AT AREAS WHERE EXISTING OVERLAY FLOOR IS REMOVED REPLACE 50% OF THE WOOD BELOW TO MATCH EXISTING HARDWOOD FLOORING.
11. WOOD BASE AND TRIM TO BE PAINTED. COLOR TO BE SELECTED BY DISTRICT.

FINISH NOTES:

1. THIS SCHEDULE SERVES AS A GENERAL LIST OF FINISH ITEMS AND IS NOT A LIST OF ALL FINISH ITEMS WITHIN A ROOM OR SPACE. REFER TO ALL CONTRACT DOCUMENTS DRAWINGS AND SPECIFICATIONS TO DETERMINE ALL REQUIRED FINISHES AND FINISH ITEMS.
2. SEE RCP PLANS FOR CEILING HEIGHTS, SOFFITS, PROFILES AND CEILING TYPES.
3. BUILDING DIMENSIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS TO QUANTIFY TAKEOFFS AND FABRICATION OF MATERIALS.
4. PATCH HOLES, CRACKS AND HOLLOWS AT WALL AND FLOOR SUBSTRATES, LEVEL AND FLUSH IN TEXTURES TO MATCH EXISTING INCLUDING AT ALL REMOVED ELEMENTS, INCLUDING LIGHTING, RADIATORS, AND EQUIPMENT NOTED.
5. PATCH ALL WALLS AS REQUIRED FOR A SUITABLE SUBSTRATE FOR NEW FINISHES AND ACCESSORIES.
6. CONTRACTOR IS REQUIRED TO FURNISH AND INSTALL ALL FINISHES AS INDICATED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
7. CONTRACTOR IS RESPONSIBLE TO ADEQUATELY PREPARE, AND PRIME WHERE REQUIRED, ALL SURFACES AS REQUIRED TO FURNISH AND INSTALL ALL FINISHES AS INDICATED.
8. CONTRACTOR IS RESPONSIBLE TO INCLUDE IN BASE BID PRICING ALL SEALANTS, ADHESIVES AND MATERIALS REQUIRED TO PROPERLY COMPLETE THE INSTALLATION OF ALL FINISHES AS INDICATED.

FINISH SELECTION NOTES:

1. ALL EXISTING ROOMS TO REMAIN NOT SHOWN IN FINISH SCHEDULE ARE TO BE PAINTED. COLORS TO BE SELECTED BY OWNER.

2. ALL COLORS AND SURFACE SHEENS FOR VARIOUS FINISHES SHALL BE AS SELECTED BY THE OWNER.

FINISH ABBREVIATIONS

ACP = ACOUSTICAL CEILING PANEL
CT = CERAMIC TILE
CPT = CARPET TILE
CMU = CONCRETE MASONRY UNITS
CWB = CEMENT WALL BOARD
EX = EXISTING TO REMAIN
EXP = EXPOSED
FRP = FIBERGLASS REINFORCED PLASTIC PANELS
GWB = GYPSUM WALL BOARD
HDWD = HARDWOOD
PL = PLASTER
PP = PORCELAIN PAVER TILE
PT = PAINT
RUB = RUBBER BASE
ST = STAIN (2 COATS)
PU = POLYURETHANE (2 COATS)
WP = WOOD PANEL

2

H2M architects + engineers

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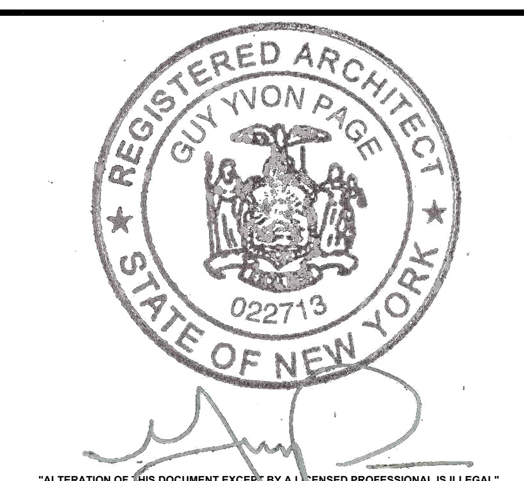
914.358.5623 ▪ www.h2m.com

CONSULTANTS:

MARK	DATE	DESCRIPTION
2	08-27-2021	ADDENDUM 02
	07-23-2021	FINAL BID DOCUMENT



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DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
BSP	BEK / MKS	BSP	-

PROJECT No.:	DATE:	SCALE:
HHSD 1905	JULY 2021	AS NOTED

CLIENT

Hastings-on-Hudson Union Free School District

Auditorium Renovations at Farragut Middle School

27 Farragut Avenue
Hastings-on-Hudson, NY 10706

66-04-04-03-0-001-036

CONTRACT

CONTRACT G
GENERAL CONSTRUCTION

STATUS

FINAL BID SET

SHEET TITLE

FINISH SCHEDULE

2

DRAWING No.

AA800.00

HASTINGS-ON-HUDSON UNION FREE SCHOOL DISTRICT

AUDITORIUM RENOVATIONS AT FARRAGUT MIDDLE SCHOOL

27 FARRAGUT AVENUE, HASTINGS-ON-HUDSON, NY 10706

SED PROJECT CONTROL NUMBER 66-04-04-03-0-001-036

CONTRACT G - GENERAL CONSTRUCTION, ABATEMENT WORK, AND PLUMBING WORK
CONTRACT M - HEATING, VENTILATION, AIR CONDITIONING WORK
CONTRACT E - ELECTRICAL WORK

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CONSULTANTS:

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2	08-27-2021	ADDENDUM 02
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REGISTERED ARCHITECT GUY YVON PAGE 022713 STATE OF NEW YORK

"ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL"

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
TWD	RLB	TWD	GYP

PROJECT No.:	DATE:	SCALE:
HHSD 1905	JULY 2021	AS NOTED

CLIENT

Hastings-on-Hudson Union Free School District

Auditorium Renovations at Farragut Middle School

27 Farragut Avenue Hastings-on-Hudson, NY 10706

66-04-04-03-0-001-036

CONTRACT

ALL CONTRACTS

STATUS

FINAL BID SET

SHEET TITLE

GENERAL NOTES, ABBREVIATIONS, DRAWING LIST, STAGING PLAN, LOCATION MAP & LEGEND

DRAWING No.

G 000.00

X:\Hhsd (hastings on hudson sd)\hhsd 1905 - (renovations at farragut ms hs)\00 bim cad\Con-tech\general\G000.00 - Cover.dwg Last Modified: Aug 27, 2021 - 2:56pm Plotted on Aug 27, 2021 - 2:56pm By rhodge

ABBREVIATIONS

AB	ANCHOR BOLT	FD	FLOOR DRAIN
A/C	AIR CONDITIONING	FIN	FINISH
ACI	AMERICAN CONCRETE INSTITUTE	F.O.	FACE OF
		FR	FIRE RETARDANT
ACST	ACOUSTIC	FTG	FOOTING
ACT	ACOUSTICAL CEILING TILE	GA	GAUGE
ACM	ASBESTOS CONTAINING MATERIAL	GWB	GYPSUM WALL BOARD
		GYP	GYPSUM
ACU	AIR CONDITIONING UNIT	GYP. BD.	GYPSUM BOARD
AD	ACCESS DOOR ADJUSTABLE	HC	HANDICAPPED
ADJ	A/E ARCHITECT/ENGINEER	HM	HOLLOW METAL
AFF	ABOVE FINISH FLOOR	HOR	HORIZONTAL
ALUM	ALUMINUM	HW	HOT WATER
ANCH	ANCHOR ANSI AMERICAN NATIONAL STANDARDS INSTITUTE	INSUL	INSULATION/INSULATING
		INT	INTERIOR
		LAV	LAVATORY
APA	ACCESS PANEL	LDR	LEADER
APPROX	APPROXIMATELY	LT	LIGHT
ASPH	ASPHALT	LVT	LUXURY VINYL TILE
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS	MAX	MAXIMUM
		MECH	MECHANICAL
AWS	AMERICAN WELDING SOCIETY	MISC	MISCELLANEOUS
B	FIRE BLANKET	MO	MASONRY OPENING
BAL	BALANCE	MR	MOISTURE RESISTANT
BB	BULLETIN BOARD	NIC	NOT IN CONTRACT
BD	BOARD	NTS	NOT TO SCALE
BLDG	BUILDING	OC	ON CENTER
BLK	BLOCK	OD	OUTSIDE DIAMETER
BLKG	BLOCKING	PLYWD	PLYWOOD
BM	BEAM	PSF	POUNDS PER SQUARE FOOT
B.O.	BOTTOM OF	PSI	POUNDS PER SQUARE INCH
BOL	BOTTOM OF LINTEL	PTD	PAINTED
BOT	BOTTOM	PVC	POLYVINYL CHLORIDE
CEIL	CEILING	R	RADIUS OR RISER
CEM	CEMENT	RCP	REFLECTED CEILING PLAN
CER	CERAMIC	RD	ROOF DRAIN
CLO	CLOSET	REINF	REINFORCED
CMU	CONCRETE MASONRY UNIT	RM	ROOM
COL	COLUMN	RO	ROUGH OPENING
CONC	CONCRETE	SIM	SIMILAR
CONST	CONSTRUCTION	SPEC	SPECIFICATIONS
CONT	CONTINUOUS	SQ	SQUARE
CORR	CORRIDOR	SS	STAINLESS STEEL
CPT	CARPET	STL	STEEL
DS	DOWNSPOUT	TEMP	TEMPERATURE
DW	DISHWASHER	TER	TERRAZZO
DWG	DRAWING	THK	THICK
EA	EACH	TYP	TYPICAL
EL	ELEVATION	UTIL	UTILITY
ELEC	ELECTRIC/ELECTRICAL	VB	VAPOR BARRIER
ELEV	ELEVATOR	VCT	VINYL COMPOSITION TILE
EP	ELECTRICAL PANEL	VERT	VERTICAL
EPY	EPOXY COATING	VTR	VENT THRU ROOF
EQ	EQUAL	WC	WATER CLOSET
EQUIP	EQUIPMENT	WH	WATER HEATER
EXIST	EXISTING	WWF	WELDED WIRE FABRIC
EXST	EXHAUST		
FAI	FRESH AIR INTAKE		
F.C.	FIRE CODE		

GENERAL NOTES

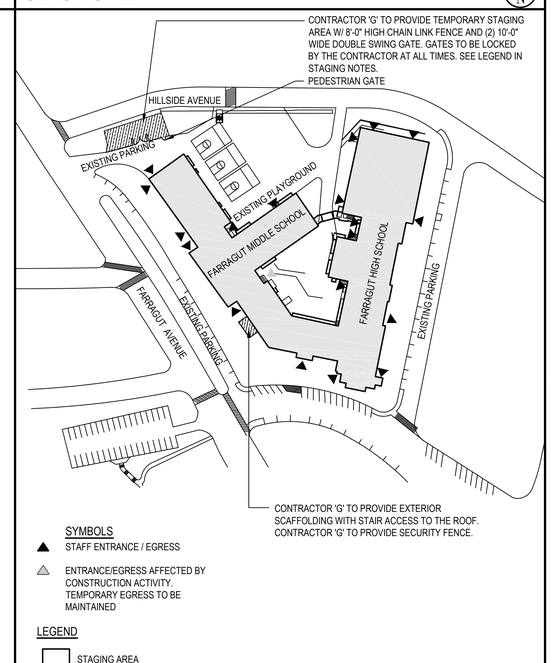
1. ALL WORK SHALL COMPLY WITH THE NEW YORK STATE FIRE PREVENTION AND BUILDING CODE AS WELL AS THE NEW YORK STATE EDUCATION DEPARTMENT MANUAL OF PLANNING STANDARDS.
2. ALL NOTES APPEARING HEREIN, WITH THOSE ON VARIOUS DRAWINGS SHALL APPLY TO ALL DRAWINGS AND FORM PART OF THE CONTRACT DOCUMENTS.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL DIMENSIONS, SQUARE FOOTAGES, LOCATIONS AND QUANTITIES OF ALL ITEMS AND/OR SPACES WHETHER INDICATED IN THE DRAWINGS OR NOT.
4. DO NOT SCALE MEASURE ANY DRAWING. VERIFY THE FIGURES, DIMENSIONS AND DESIGN INTENTION SHOWN ON THE DRAWINGS BEFORE BEGINNING LAYOUT OF THE WORK AND REPORT ANY ERRORS, INACCURACIES, OR CONFLICTS TO THE ARCHITECT/ENGINEER IN WRITING BEFORE BEGINNING ANY WORK.
5. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, LAWS AND STATUTES AS REQUIRED. STRICTLY ADHERE TO MANUFACTURER'S STORAGE, INSTALLATION AND WARRANTEE REQUIREMENTS.
6. VERIFY EXACT LAYOUT COMPATIBILITY WITH ALL EXISTING CONDITIONS BEFORE BEGINNING WORK.
7. DISTURB ONLY THOSE AREAS OF THE SITE AFFECTED BY RENOVATION, UNLESS NOTED OTHERWISE. PROTECT ALL OTHER AREAS. CONTRACTORS SHALL BE RESPONSIBLE FOR ALL PATCH AND REPAIR OF EXISTING FINISHES WHICH ARE DAMAGED DURING CONSTRUCTION.
8. EACH CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF ANSI AND PROVIDE WHERE APPLICABLE ADA COMPLIANT BUILDING COMPONENTS.
9. THE OWNER RESERVES THE RIGHT AT ALL TIMES TO DELIVER, PLACE AND INSTALL EQUIPMENT AND FURNISHINGS AS THE WORK PROGRESSES SO LONG AS THERE IS NOT A CONFLICT WITH THE CONTRACTORS.
10. THE CONTRACTOR SHALL MAINTAIN AT THE SITE ONE RECORD COPY OF ALL DRAWINGS, SPECIFICATIONS, APPROVED SHOP DRAWINGS AND APPROVED SAMPLES MARKED CURRENTLY TO RECORD ALL CHANGES DURING CONSTRUCTION.
11. ANY CHANGES TO THE SCOPE OF WORK OR IN THE CONSTRUCTION DETAILS, WHETHER DUE TO FIELD CONDITIONS OR OMISSION SHALL BE DOCUMENTED BY THE ARCHITECT PRIOR TO EXECUTION. ANY INCREASE OR DECREASE IN THE CONTRACT PRICE MUST BE APPROVED IN WRITING PRIOR TO EXECUTION.
12. THE CONTRACTOR BY PRESENTING THEIR BID FOR THE WORK, REPRESENTS THAT HE/SHE HAS INSPECTED THE SITE AND IS COMPLETELY FAMILIAR WITH THE SCOPE OF WORK AND ALL FIELD CONDITIONS RELATED TO, AND AFFECTING THE WORK AND IT'S PERFORMANCE. EXCEPTIONS AFFECTING THE WORK AND IT'S PERFORMANCE, OR CONFLICTS BETWEEN FIELD CONDITIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE SUBMISSION OF BIDS. FAILURE TO DO SO WILL NOT RESULT IN A CHANGE TO THE CONTRACT PRICE IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROVIDE ALL NECESSARY ACCOMMODATIONS TO COMPLETE THE SCOPE OF WORK.

DRAWING LIST

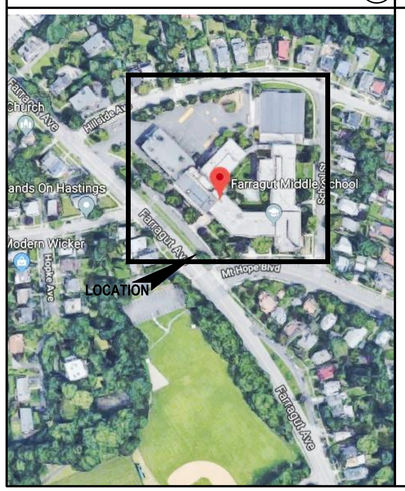
STAGING NOTES: CONTRACT 'G' U.O.N

1. POST SIGNS INDICATING CONSTRUCTION AREA AND CONSTRUCTION EMPLOYEE ENTRANCE.
2. CONSTRUCTION FENCE TO BE 8'-0" HIGH CHAIN LINK FENCE LOCATED A MINIMUM OF 15'-0" FROM ALL WINDOW OPENINGS. ALL GATES ARE TO BE LOCKED AT ALL TIMES, EXCEPT FOR WHEN A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.
3. CONTRACTOR IS TO STAGE ON THE SITE IN SUCH A MANNER AS TO NOT BLOCK OR ENCROACH UPON EXISTING EXITS/ENTRANCES TO BUILDING, AND VEHICLE ACCESS.
4. CONTRACTOR SHALL RESTORE ALL STAGING AREAS TO PRE-CONSTRUCTION CONDITION UPON COMPLETION OF WORK

STAGING PLAN



LOCATION MAP



SYMBOLS LEGEND

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
ROOM DESIGNATION	GYMNASIUM	GYPSUM	
SECTION MARK	1 / A5.0	CONCRETE	
DETAIL SYMBOL	1 / A5.1	AGGREGATE SUB-BASE	
ELEVATION KEY	1 / A4.0	EARTH	
INTERIOR ELEVATION REFERENCE	C / A4.0 / B	BATT INSULATION	
ELEVATION LINE		PLYWOOD	
REVISION	2	RIGID INSULATION	
PARTITION TYPE	3	STEEL	
DOOR TYPE	1	WOOD	
WINDOW TYPE	1	WOOD BLOCKING	

UNIFORM SAFETY STANDARDS - FOR SCHOOL CONSTRUCTION AND MAINTENANCE PROJECTS (NYSED 155.5 REGULATION)

1. "THE OCCUPIED PORTION OF ANY SCHOOL BUILDING SHALL ALWAYS COMPLY WITH THE MINIMUM REQUIREMENTS NECESSARY TO MAINTAIN A CERTIFICATE OF OCCUPANCY."

   THE OCCUPIED PORTION OF ANY SCHOOL BUILDING SHALL COMPLY WITH THE COMMISSIONER OF EDUCATION 155.5 UNIFORM SAFETY STANDARDS.
2. SCHOOL AREAS TO BE DISTURBED DURING RENOVATIONS OR DEMOLITION ACTIVITIES HAVE BEEN TESTED AND FOUND TO CONTAIN ASBESTOS. THESE AREAS WILL BE ABATED IN ACCORDANCE WITH SPECIFICATION SECTION 028000. A COPY OF THE TEST RESULTS IS INCLUDED WITHIN THE ENVIRONMENTAL REPORT FOUND IN THE APPENDIX OF THE PROJECT MANUAL FOR THIS PROJECT.
3. "GENERAL SAFETY AND SECURITY STANDARDS FOR CONSTRUCTION PROJECTS:

   (1) ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A SAFE AND SECURE MANNER.

   (2) FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE MAINTAINED.

   (3) GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.

   (4) DURING EXTERIOR RENOVATION WORK, OVERHEAD PROTECTION SHALL BE PROVIDED FOR ANY SIDEWALKS OR AREAS IMMEDIATELY BENEATH THE WORK SITE OR SUCH AREAS SHALL BE FENCED OFF AND PROVIDED WITH WARNING SIGNS TO PREVENT ENTRY.

   (5) WORKERS SHALL BE REQUIRED TO WEAR PHOTO-IDENTIFICATION BADGES AT ALL TIMES FOR IDENTIFICATION AND SECURITY PURPOSES WHILE WORKING AT OCCUPIED SITES."
4. "SEPARATION OF CONSTRUCTION AREAS FROM OCCUPIED SPACES: CONSTRUCTION AREAS WHICH ARE UNDER THE CONTROL OF A CONTRACTOR AND THEREFORE NOT OCCUPIED BY DISTRICT STAFF OR STUDENTS SHALL BE SEPARATED FROM OCCUPIED AREAS. PROVISIONS SHALL BE MADE TO PREVENT THE PASSAGE OF DUST AND CONTAMINANTS INTO OCCUPIED PARTS OF THE BUILDING. PERIODIC INSPECTION AND REPAIRS OF THE CONTAINMENT BARRIERS MUST BE MADE TO PREVENT EXPOSURE TO DUST OR CONTAMINANTS. GYPSUM BOARD MUST BE USED IN EXIT WAYS OR OTHER AREAS THAT REQUIRE FIRE RATED SEPARATION. HEAVY DUTY PLASTIC SHEETING MAY BE USED ONLY FOR A VAPOR, FINE DUST OR AIR INFILTRATION BARRIER, AND SHALL NOT BE USED TO SEPARATE OCCUPIED SPACES FROM CONSTRUCTION AREAS.

   (1) A SPECIFIC STAIRWELL AND/OR ELEVATOR SHALL BE ASSIGNED FOR CONSTRUCTION WORKER USE DURING WORK HOURS. IN GENERAL, WORKERS MAY NOT USE CORRIDORS, STAIRS OR ELEVATORS DESIGNATED FOR STUDENTS OR SCHOOL STAFF. WHERE NO STAIRWELL AND OR ELEVATOR IS ASSIGNED, WORKERS MUST ENTER THE CONSTRUCTION SPACES DIRECTLY FROM THE BUILDING EXTERIOR.

   (2) LARGE AMOUNTS OF DEBRIS MUST BE REMOVED BY USING ENCLOSED CHUTES OR A SIMILAR SEALED SYSTEM. THERE SHALL BE NO MOVEMENT OF DEBRIS THROUGH HALLS OF OCCUPIED SPACES OF THE BUILDING. NO MATERIAL SHALL BE DROPPED OR THROWN OUTSIDE THE WALLS OF THE BUILDING.

   (3) ALL OCCUPIED PARTS OF THE BUILDING AFFECTED BY RENOVATION ACTIVITY SHALL BE CLEANED AT THE CLOSE OF EACH WORKDAY. SCHOOL BUILDINGS OCCUPIED DURING A CONSTRUCTION PROJECT SHALL MAINTAIN REQUIRED HEALTH, SAFETY AND EDUCATIONAL CAPABILITIES AT ALL TIMES THAT CLASSES ARE IN SESSION."
5. A PLAN DETAILING HOW EXITING REQUIRED BY THE APPLICABLE BUILDING CODE WILL BE MAINTAINED.
6. WORK UNDER THIS CONTRACT WILL BE CONDUCTED DURING THE SUMMER RECESS OR DURING AFTER SCHOOL HOURS WHEN THE BUILDING IS UNOCCUPIED. IF THE BUILDING BECOMES OCCUPIED THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EXISTING MEANS OF EGRESS IN A CLEAR AND FREE MANNER, INCLUDING THE STORAGE OF MATERIALS AND STAGING OF EQUIPMENT ON THE SITE. IF ANY PORTION OF THE BUILDING DOES BECOME OCCUPIED THE ARCHITECT WILL PROVIDE A DETAILED PLAN FOR EXITING, OVERHEAD PROTECTION AND EGRESS IN ACCORDANCE WITH APPLICABLE BUILDING CODES.
7. A PLAN DETAILING HOW ADEQUATE VENTILATION WILL BE MAINTAINED DURING CONSTRUCTION.
8. WORK UNDER THIS PROJECT WILL BE COMPLETED DURING OFF HOURS WHEN THE BUILDING WILL NOT BE OCCUPIED BY FACULTY, STAFF OR STUDENTS. IF A PORTION OF THE BUILDING IS TO BECOME OCCUPIED DURING THE CONSTRUCTION PROCESS THE CONTRACTOR SHALL CLOSE OFF ALL INTAKES, OPENINGS, AND MECHANICAL VENTILATION SYSTEMS ADJACENT TO THE WORK AREA. THE ARCHITECT SHALL ASSIST THE CONTRACTOR IN DEVELOPING A PLAN TO PROVIDE ALTERNATE MEANS OF FRESH AIR TO ALL OCCUPIED SPACES.
9. "CONSTRUCTION AND MAINTENANCE OPERATIONS SHALL NOT PRODUCE NOISE IN EXCESS OF 60 DBA IN OCCUPIED SPACES OR SHALL BE SCHEDULED FOR TIMES WHEN THE BUILDING OR AFFECTED BUILDING SPACES ARE NOT OCCUPIED OR ACOUSTICAL ABATEMENT MEASURES SHALL BE TAKEN."
10. "THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF CHEMICAL FUMES, GASES, AND OTHER CONTAMINATES PRODUCED BY WELDING, GASOLINE OR DIESEL ENGINES, ROOFING, PAVING, PAINTING, ETC. TO ENSURE THEY DO NOT ENTER OCCUPIED PORTIONS OF THE BUILDING OR AIR INTAKES." ALL VENTS SHALL BE SEALED TO PREVENT CONTAMINANTS FROM THE CONSTRUCTION AREA FROM ENTERING THE OCCUPIED AREAS OF THE BUILDING.
11. "THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ACTIVITIES AND MATERIALS WHICH RESULT IN "OFF-GASSING" OF VOLATILE ORGANIC COMPOUNDS SUCH AS GLUES, PAINTS, FURNITURE, CARPETING, WALL COVERING, DRAPERY, ETC. ARE SCHEDULED, CURED OR VENTILATED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS BEFORE A SPACE CAN BE OCCUPIED."
12. "LARGE AND SMALL ASBESTOS ABATEMENT PROJECTS AS DEFINED BY 12NYCRR56 SHALL NOT BE PERFORMED WHILE THE BUILDING IS OCCUPIED." IT IS OUR INTERPRETATION THAT THE TERM "BUILDING", AS REFERENCED IN THIS SECTION, MEANS A WING OR MAJOR SECTION OF A BUILDING THAT CAN BE COMPLETELY ISOLATED FROM THE REST OF THE BUILDING WITH SEALED NON COMBUSTIBLE CONSTRUCTION. THE ISOLATED PORTION OF THE BUILDING MUST CONTAIN EXITS THAT DO NOT PASS THROUGH THE OCCUPIED PORTION AND VENTILATION SYSTEMS MUST BE PHYSICALLY SEPARATED AND SEALED AT THE ISOLATION BARRIER.
13. EXTERIOR WORK SUCH AS ROOFING, FLASHING, SIDING, OR SOFFIT WORK MAY BE PERFORMED ON OCCUPIED BUILDINGS PROVIDED PROPER VARIANCES ARE IN PLACE AS REQUIRED, AND COMPLETE ISOLATION OF VENTILATION SYSTEMS AND AT WINDOWS IS PROVIDED. CARE MUST BE TAKEN TO SCHEDULE WORK SO THAT CLASSES ARE NOT DISRUPTED BY NOISE OR VISUAL DISTRACTION.
14. MINOR ASBESTOS PROJECTS DEFINED BY 12NYCRR56 AS AN ASBESTOS PROJECT INVOLVING THE REMOVAL, DISTURBANCE, REPAIR, ENCAPSULATION, ENCLOSURE OR HANDLING OF 10 SQUARE FEET OF ASBESTOS OR ASBESTOS MATERIAL MAY BE PERFORMED IN UNOCCUPIED AREAS OF AN OCCUPIED BUILDING IN ACCORDANCE WITH 12NYCRR56.
15. SURFACES AND/OR MATERIALS TO BE REMOVED OR DISTURBED BY THIS RENOVATION ARE SUSPECT OF CONTAINING LEAD. A COPY OF THE TEST RESULTS IS INCLUDED WITHIN THE ENVIRONMENTAL REPORT FOUND IN THE APPENDIX OF THE PROJECT MANUAL FOR THIS PROJECT.
16. UNDER NEW YORK STATE LAW SMOKING IS PROHIBITED ON SCHOOL GROUNDS. EMPLOYEES FOUND TO BE SMOKING ON SCHOOL GROUNDS SHALL BE ORDERED OFF SITE AND A SECOND OFFENSE WILL BE GROUNDS FOR PERMANENT REMOVAL FROM PROJECT. LEGAL PENALTIES MAY ALSO BE APPLIED.
17. ALL CONTRACTORS SHALL TAKE EVERY PRECAUTION AND SHALL PROVIDE SUCH EQUIPMENT AND FACILITIES AS ARE NECESSARY OR REQUIRED FOR THE SAFETY OF ITS EMPLOYEES. IN CASE OF AN ACCIDENT, FIRST AID SHALL BE ADMINISTERED TO ANY WHO MAY BE INJURED IN THE PROGRESS OF THE WORK. IN ADDITION, THE CONTRACTOR SHALL BE PREPARED FOR THE REMOVAL TO THE HOSPITAL FOR TREATMENT OF ANY EMPLOYEE EITHER SERIOUSLY INJURED OR ILL.
18. THE CONTRACTOR SHALL PROVIDE TEMPORARY WEATHER-TIGHT AND INSULATED ENCLOSURES AS MAY BE REQUIRED BY THE SCOPE OF WORK FOR ALL EXTERIOR OPENINGS SO AS TO PROTECT ALL WORK FROM THE WEATHER, AND TO PROVIDE SECURITY AGAINST UNAUTHORIZED ENTRY. ENCLOSURES SHALL NOT CREATE DEAD END CONDITIONS, REQUIRED EXITS SHALL BE MAINTAINED FREE AND CLEAR.