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BID ADDENDUM #2

Nanuet Union Free School District
103 Church Street
Nanuet, NY 10954

Nanuet Bond Projects Phase 5

Date: January 30, 2025

NOTICE TO CONTRACTORS

This Addendum issued prior to receipt of Bid shall and does hereby become a part of the Construction Documents for the above project.

All principal Contractors shall be responsible for seeing that their Subcontractors are properly apprised of the contents of this Addendum.

All information contained in this Addendum shall supersede and shall take precedence over any conflicting information in the original Bidding Documents dated **January 14, 2025**, and all previous addenda.

All Contractors shall acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may subject Bidder to disqualification.

CLARIFICATIONS:

1. There is no bid form for Barr Middle School. Please advise.
Response: The bid form has been updated. Please refer to spec section "00 30 01 - GC-01 BID FORM"
2. There is no alternate spec section in the spec. Please advise.
Response: Please refer to spec section "01 23 00 – ALTERNATES" with this addendum.
3. Addendum 1 states NYS is to do the roofing, masonry, and lintel restoration. Please advise if these should still be included in bid drawings.
 - a. Highview – 2@ 5LF @ 13# lintels
 - b. 4 @ RLF @ 15# lintels
 - c. (D12) Brick repointing at Highview
 - d. (D23) Demo lintel @ 15LF
 - e. (D23) For above- lintel repair
 - f. (N17) Downspouts remove and replace @ HA A100, etc
 - g. (N16) Parge – masonry item?
 - h. (N30) Patch brick**Response: No, the above is not to be included.**

4. HES-A402 shows a note @ 1 soffit to see structural drawings in the middle of the page. There is nothing indicated on the structural drawings.
Response: Please disregard the note.
5. (A1) shades @ windows @ HES/A551, shows a detail for shades. There are none shown on the plans. Please advise.
Response: Please disregard the note.
6. HES/A601 shows existing door on the door schedule. It states existing to remain. No mention is made on the door schedule if the existing door is to get new hardware. Is there any work to be done on the existing doors? Please advise.
Response: Refer to updated door schedule on HE-A601 with this addendum.
7. Is the masonry at Barr MS at detail M5/A101, M10/A101 by the GC or the state contract? (Brick patch@flashing) Please advise.
Response: At Barr Middle School, it would be by the GC.
8. There is a spec for fire extinguisher, but none are shown on the drawings. Please advise.
Response: Please disregard spec sections "10 44 16 - FIRE EXTINGUISHERS" and "10 44 13 - FIRE EXTINGUISHER CABINETS".
9. The HM door at OEC has an aluminum frame. Is this correct? Please advise.
Response: It should be a HM door with a HM frame.
10. At MBR, the ceiling is vague in the garage (01). Is it new acoustical ceiling or sheet rock? There are indications of two different ceilings. Please advise?
Response: It should be ACT.
11. Does the garage get painted (room 01)? Please advise
Response: No, the painting of the garage is not in scope.
12. No alternates are shown on the drawings. Please advise.
Response: Please refer to spec section "01 23 00 – ALTERNATES" included with this addendum.
13. At HES, the door schedule is not conformed to the jamb and head details (i.e. schedule says jamb is K11. There is no K11 but there is a J11). This occurs in several places on the door schedule.
Response: Refer to updated door schedule on HE-A601 with this addendum.
14. On the HES plumbing, does the GC saw cut, chop, patch, and excavate for the plumber? Please advise.
Response: Please refer to plumbing drawings for sawcut detail.
15. Is there any asbestos abatement on the project? Please advise.
Response: No abatement necessary for Phase 5 per the asbestos/lead report.
16. On the bid form HES, 5 of 13, there is a line item for restoration mortars and brick restoration. As per addendum 1, this is under state contract. Please advise
Response: Correct, this is under state contract.
17. Drawing HE A403 on the enlarged 1st floor plan boys toilet G1 calls out door 109A. Drawing HE-A601 does not have this door number listed on the new door schedule.
Response: The door mentioned is existing to remain.
18. Drawing HE A404 enlarged 2nd floor plan – staff toilet C-1 calls out door 201. Drawing HE-A601 does not have this door number listed on the new door schedule.
Response: The door mentioned is existing to remain.
19. Missing door hardware specs.
Response: Attached are the Hardware specs.

20. Where are doors 211 & st1 as shown on HE-A601.

Response: ST-1 is to the stair in the cafeteria and 211 is not supposed to be on the schedule (it is the existing entry vestibule door that is being replaced with door 112A on the schedule).

21. Drawing MB-A401 calls out for door #39 is this a new door? Please provide a door schedule for this door.

Response: The door mentioned is existing to remain.

CHANGES TO SPECIFICATIONS:

01 23 00 – ALTERNATES

a. Updated to include alternates 1 and 2. See attached specification.

00 30 01 - GC-01 BID FORM

b. Updated to remove Barr Middle School. See attached specification.

08 71 00 – DOOR SCHEDULE

c. Updated door schedule hardware. See attached specification.

REVISIONS TO DRAWINGS:

ARCHITECTURAL

1. Sheet BM-AD000: EXISTING CONDITIONS REFERENCE PHOTOS

A. Updated to reflect Alternate 1 notes to remove the existing canopies at the main entrance and at the east side of the building

2. Sheet BM-AD101: FIRST FLOOR OVERALL DEMOLITION PLAN

A. Updated to reflect Alternate 1 notes to remove the existing canopies at the main entrance and at the east side of the building

3. Sheet BM-A101: FIRST FLOOR OVERALL PLAN

A. Updated to reflect Alternate 1 notes to install new canopies at the main entrance and at the east side of the building

4. Sheet BM-A101.2: FIRST FLOOR OVERALL PLAN – ALTERNATE 2

A. Added sheet to reflect Alternate 2 notes for existing canopies at the main entrance and at the east side of the building to remain

5. Sheet BM-A111: FIRST FLOOR OVERALL RCP

A. Updated to reflect Alternate 1 notes to install new canopy ceilings and fixtures at the main entrance and at the east side of the building

6. Sheet BM-A121: OVERALL CANOPY ROOF PLAN

a. Updated to reflect Alternate 1 notes to install new canopy roofs at the main entrance and at the east side of the building

7. Sheet BM-A121.2: OVERALL CANOPY ROOF PLAN – ALTERNATE 2

A. Added sheet to reflect Alternate 2 notes for new liquid applied roof coating to be installed existing canopies roofs at the main entrance and at the east side of the building to remain

8. Sheet BM-A201: CANOPY ELEVATION - ALTERNATE 1

- a. Updated to reflect Alternate 1 notes to install new canopies at the main entrance and at the east side of the building
- 9. **Sheet BM-A301: CANOPY SECTIONS - ALTERNATE 1**
 - a. Updated to reflect Alternate 1 notes to show new canopy section details at the main entrance and at the east side of the building
- 10. **Sheet HE-A101: 1ST FLOOR PLAN**
 - a. Updated to show scope of Stair 1-006 (already on HE-A531).
- 11. **Sheet HE-A601: DOOR SCHEDULE AND DETAILS**
 - a. Updated to reflect existing and new door schedule and hardware.
- 12. **Sheet MB-A401: ENLARGED FLOOR PLAN, RCP, AND FINISH SCHEDULE**
 - a. Updated to reflect ACT Ceiling at breakroom, other gyp ceilings, and electrical closet. Finish schedule also updated.

STRUCTURAL

None

MECHANICAL

None

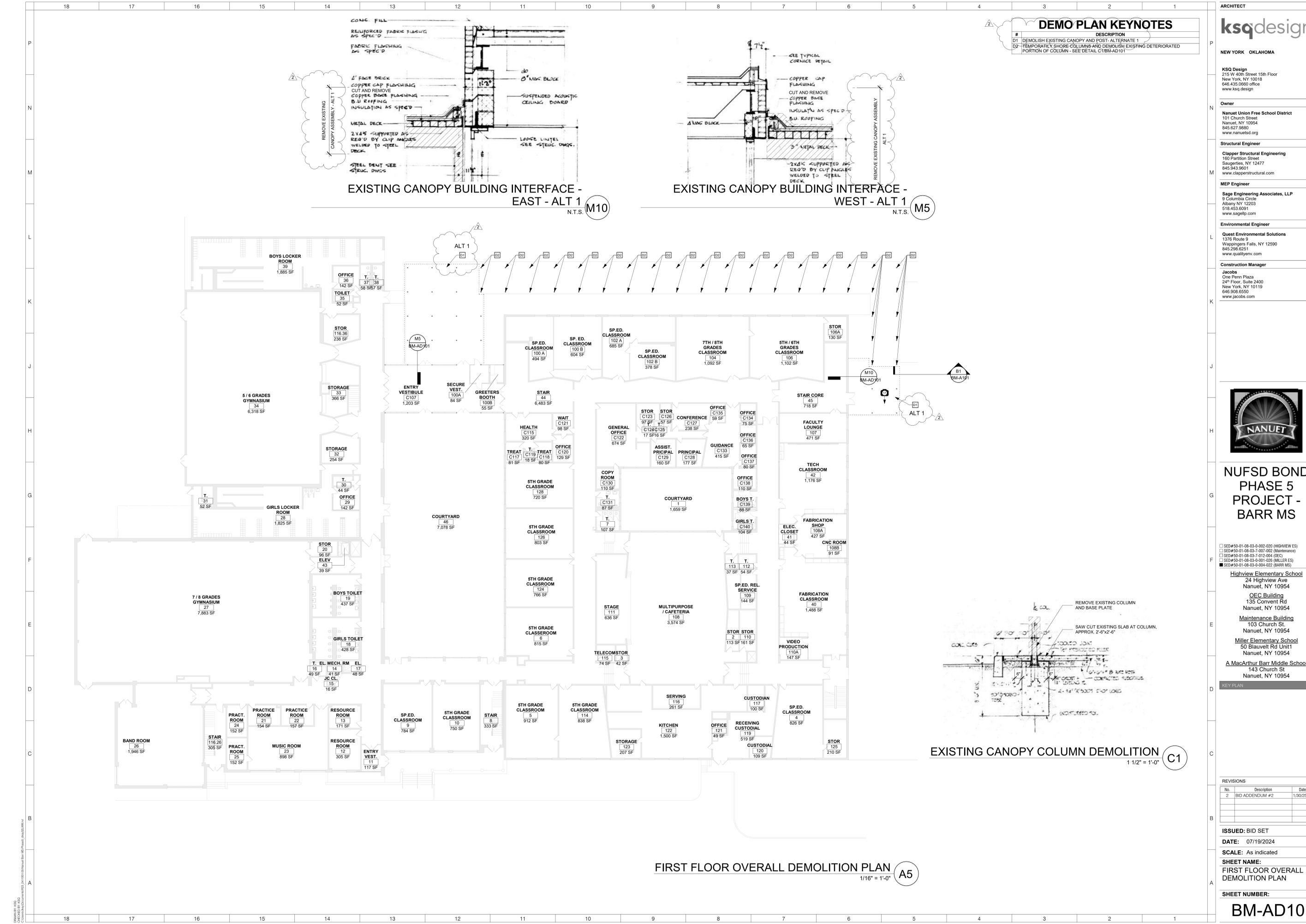
ELECTRICAL

- 1. **Sheet HE-E401: ENLARGED ELECTRICAL PLAN**
 - a. Updated to reflect video intercom door closer locations, note 14.
- 2. **Sheet MB-E101: OVERALL ELECTRICAL PLAN**
 - a. updated ceiling at breakroom and electrical closet updates.
- 3. **Sheet MB-E601: PANEL AND FIXTURE SCHEDULE**
 - a. Updates based off new fixtures on MB-E101.
- 4. **Sheet ME-E101: OVERALL ELECTRICAL PLAN**
 - a. Updates at Meeting rooms A-6 and A-7.

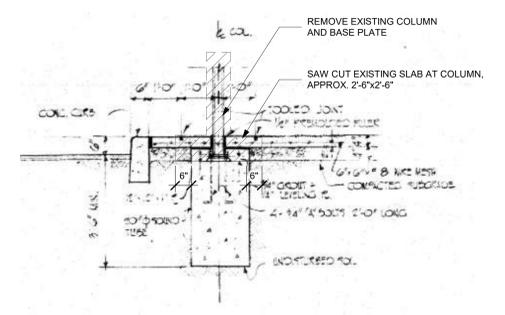
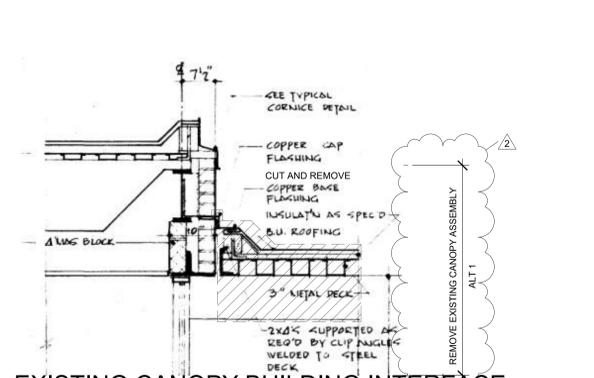
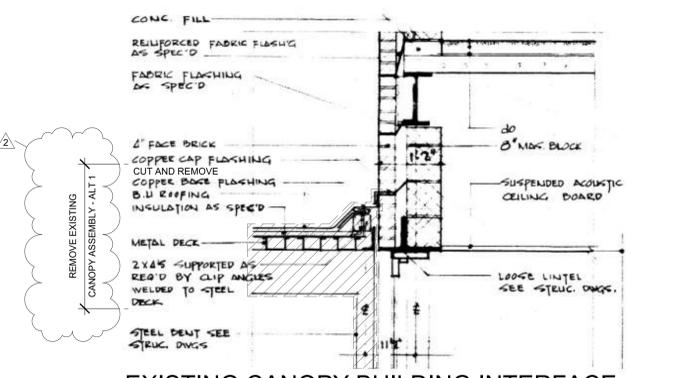
PLUMBING

None

END OF BID ADDENDUM No. 2



DEMO PLAN KEYNOTES	
#	DESCRIPTION
D1	DEMOLISH EXISTING CANOPY AND POST-ALTERNATE 1
D2	TEMPORARILY SHORE COLUMNS AND DEMOLISH EXISTING DETERIORATED PORTION OF COLUMN - SEE DETAIL C1BM-AD101



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**NUFSD BOND
 PHASE 5
 PROJECT -
 BARR MS**

SED#50-01-08-03-0-002-020 (HIGHVIEW ES)
 SED#50-01-08-03-7-001-022 (Maintenance)
 SED#50-01-08-03-7-012-004 (OEC)
 SED#50-01-08-03-0-001-028 (MILLER ES)
 SED#50-01-08-03-0-004-022 (BARR MS)

Highview Elementary School
 24 Highview Ave
 Nanuet, NY 10954

OEC Building
 135 Convent Rd
 Nanuet, NY 10954

Maintenance Building
 103 Church St.
 Nanuet, NY 10954

Miller Elementary School
 50 Blauvelt Rd Unit
 Nanuet, NY 10954

A MacArthur Barr Middle School
 143 Church St
 Nanuet, NY 10954

KEY PLAN

REVISIONS		
No.	Description	Date
2	BID ADDENDUM #2	1/30/25

ISSUED: BID SET
DATE: 07/19/2024
SCALE: As indicated
SHEET NAME:
 FIRST FLOOR OVERALL
 DEMOLITION PLAN
SHEET NUMBER:

BM-AD101



NUFSD BOND PHASE 5 PROJECT - BARR MS

- SED#50-01-08-03-0-002-020 (HIGHVIEW ES)
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DATE: 07/19/2024

SCALE: As indicated

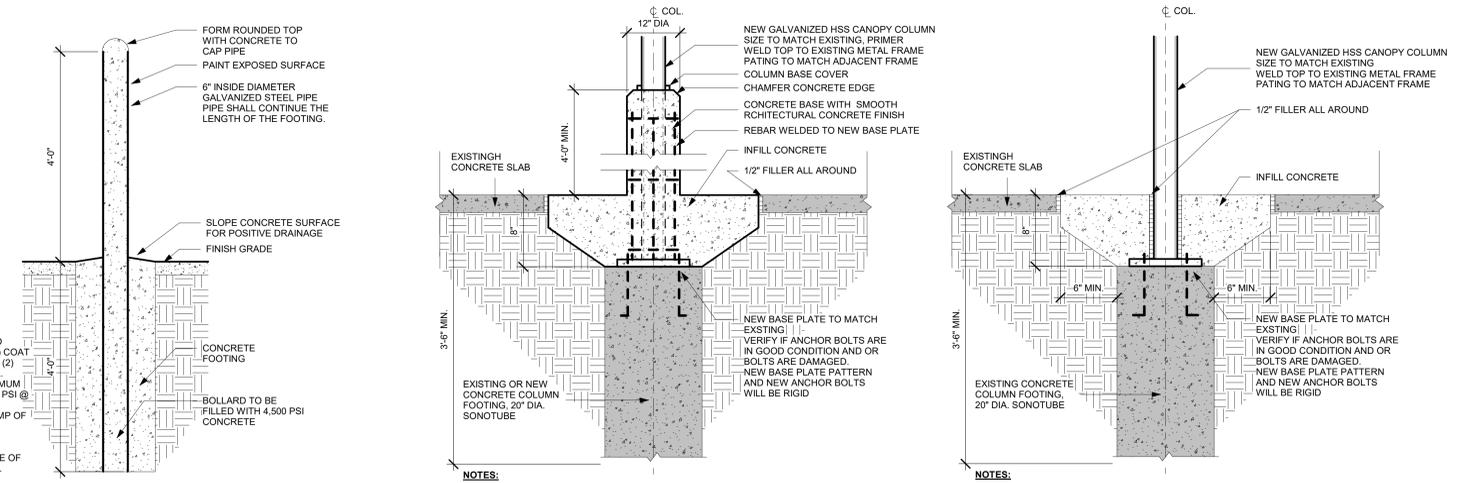
SHEET NAME:
FIRST FLOOR OVERALL
PLAN

SHEET NUMBER:

BM-A101

NEW WORK PLAN KEYNOTES

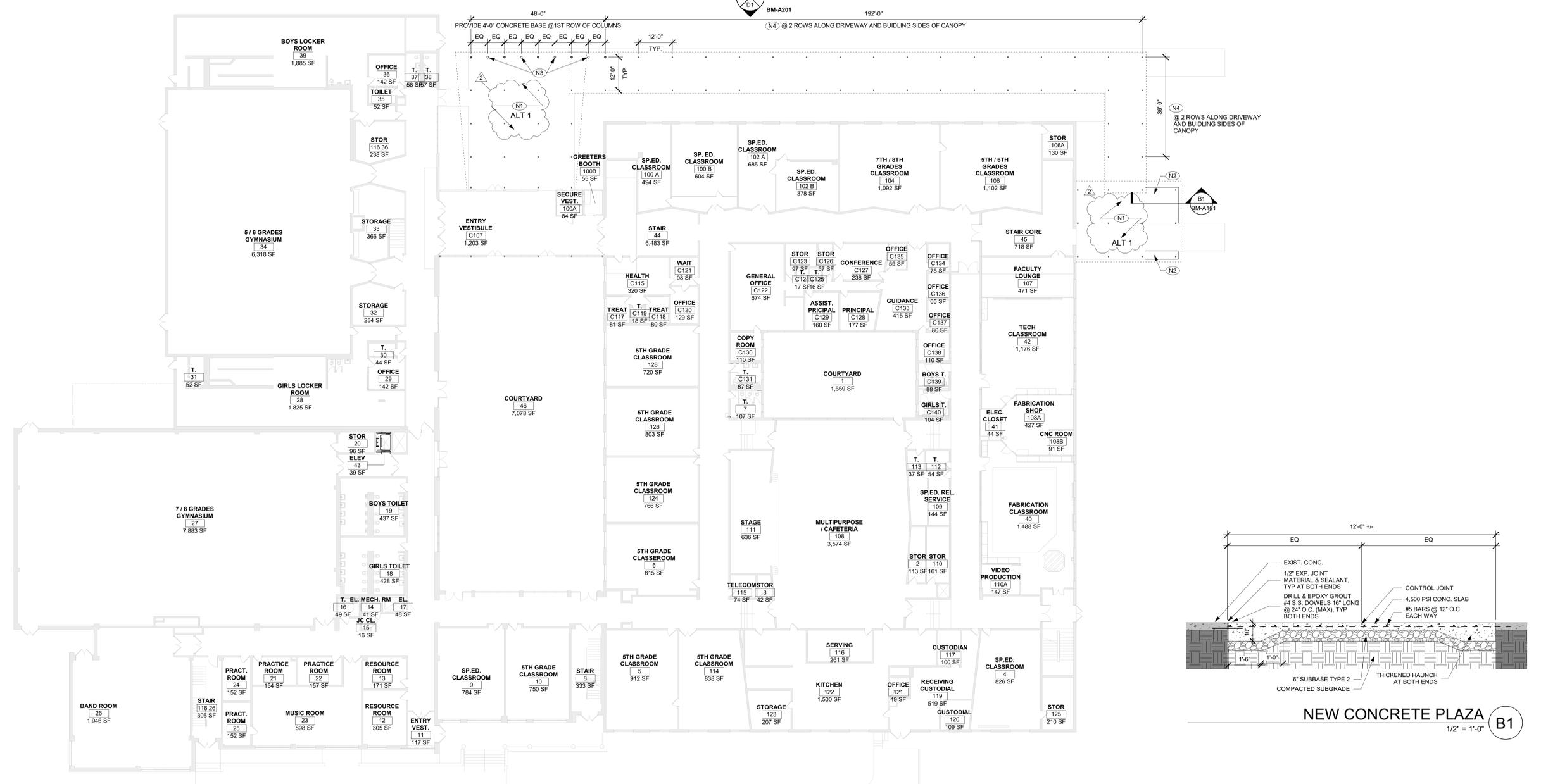
#	DESCRIPTION
N1	PROVIDE NEW CANOPY AND POSTS - ALTERNATE 1
N2	PROVIDE NEW CONCRETE SOG PLAZA, RE DETAIL B1/BM-A101
N3	PROVIDE NEW BOLLARDS, SEE DETAILS K12 ON BM-A101
N4	PROVIDE NEW CONCRETE BASE AND POST FOR EXISTING CANOPY SEE DETAILS K8 AND K5 ON BM-A101



BOLLARD WITH FOOTING (K12) 3/4" = 1'-0"

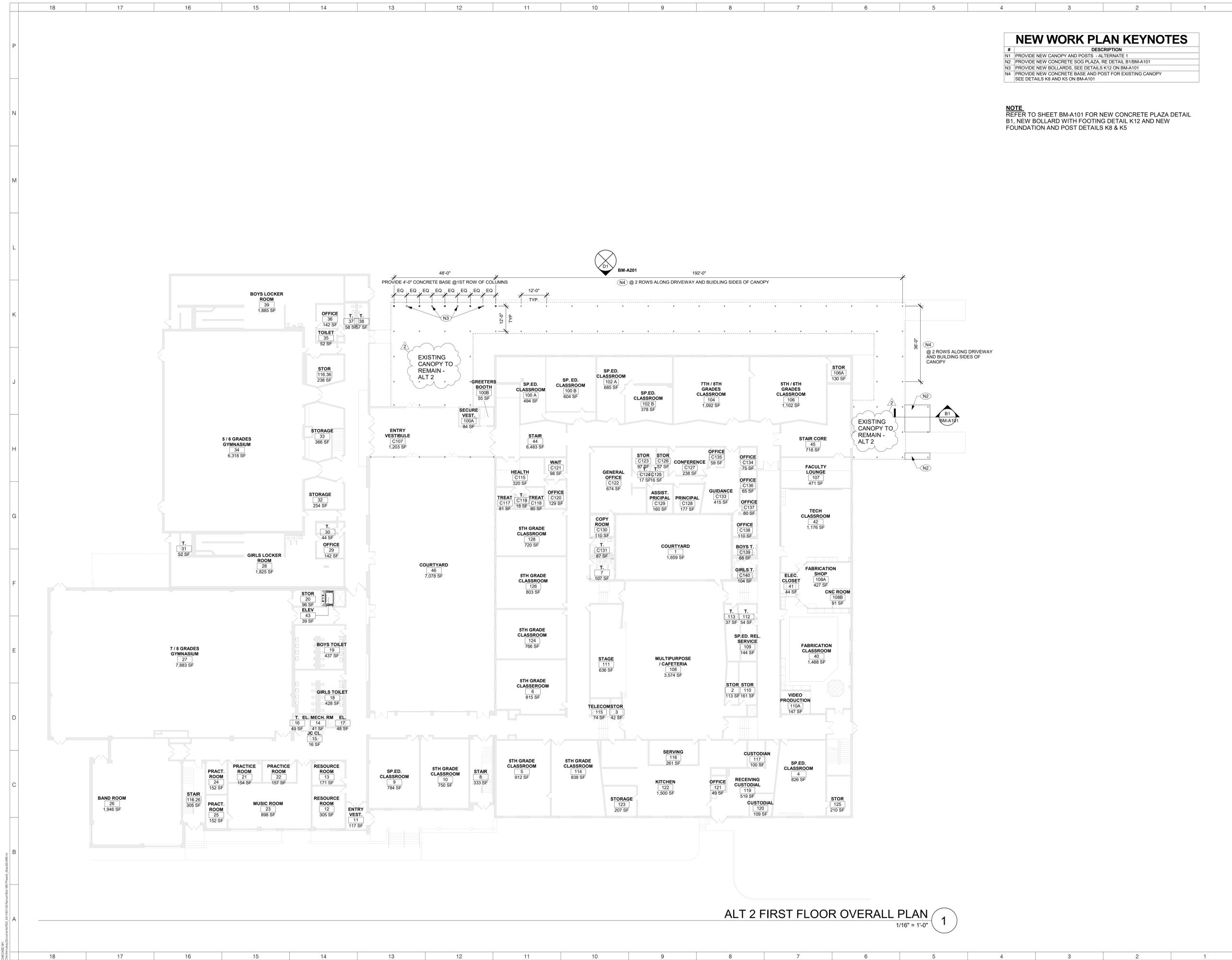
NEW COLUMN WITH 4' CONCRETE BASE (K8) 1 1/2" = 1'-0"

NEW COLUMN WITHOUT CONCRETE BASE (K5) 1 1/2" = 1'-0"



FIRST FLOOR OVERALL PLAN (A5)
1/16" = 1'-0"

NEW CONCRETE PLAZA (B1)
1/2" = 1'-0"



NEW WORK PLAN KEYNOTES	
#	DESCRIPTION
N1	PROVIDE NEW CANOPY AND POSTS - ALTERNATE 1
N2	PROVIDE NEW CONCRETE SOG PLAZA, RE DETAIL B1/BM-A101
N3	PROVIDE NEW BOLLARDS, SEE DETAILS K12 ON BM-A101
N4	PROVIDE NEW CONCRETE BASE AND POST FOR EXISTING CANOPY SEE DETAILS K8 AND K5 ON BM-A101

NOTE
REFER TO SHEET BM-A101 FOR NEW CONCRETE PLAZA DETAIL B1, NEW BOLLARD WITH FOOTING DETAIL K12 AND NEW FOUNDATION AND POST DETAILS K8 & K5

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KEY PLAN

REVISIONS		
No.	Description	Date
2	BID ADDENDUM #2	1/30/25

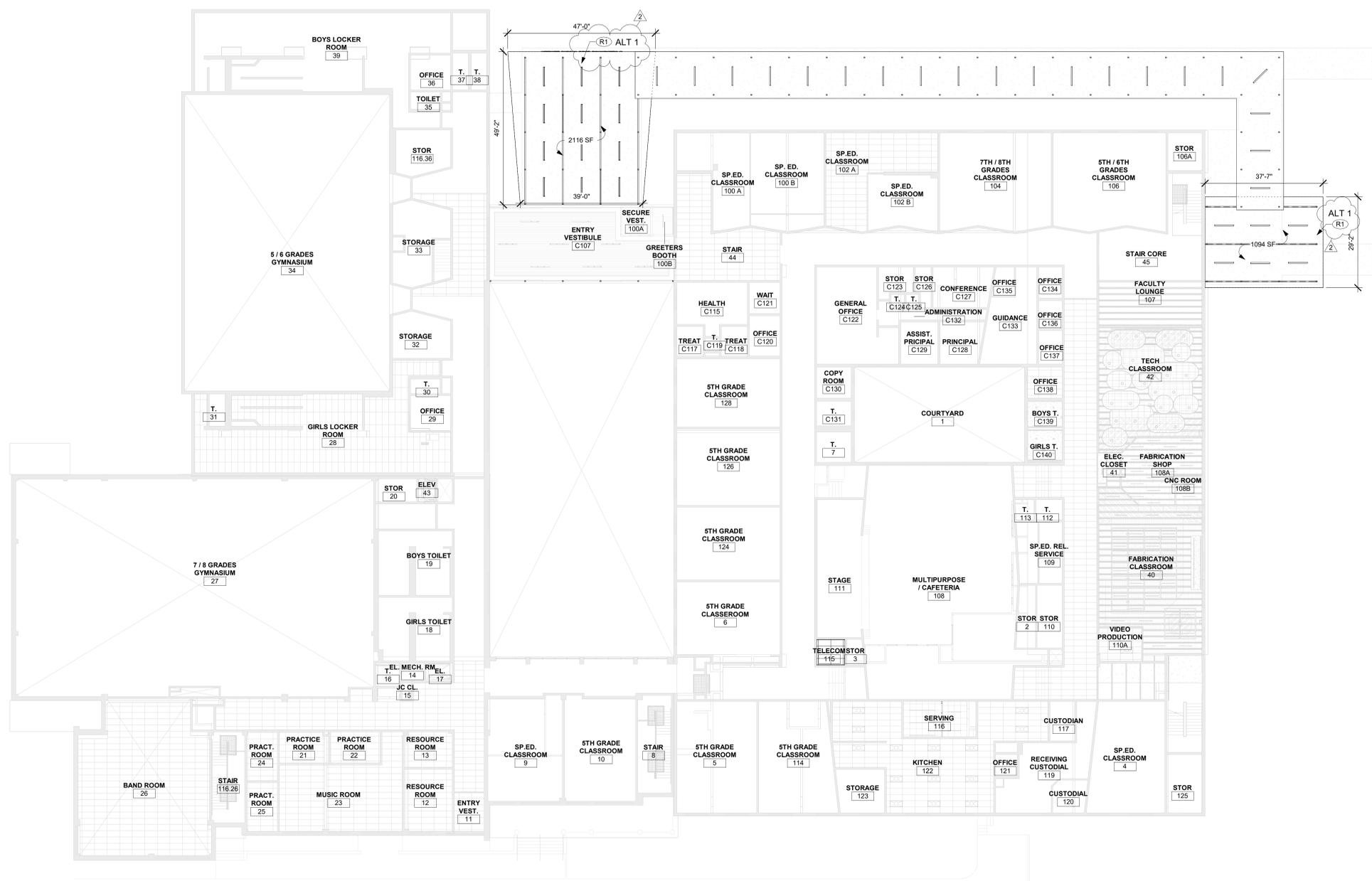
ISSUED: BID SET
DATE: 07/19/2024
SCALE: 1/16" = 1'-0"
SHEET NAME:
FIRST FLOOR OVERALL
PLAN - ALTERNATE 2

SHEET NUMBER:
BM-A101.2

ALT 2 FIRST FLOOR OVERALL PLAN
1/16" = 1'-0" 1

NEW WORK RCP KEYNOTES

#	DESCRIPTION
R1	PROVIDE NEW CANOPY CEILING AND LIGHTING FIXTURES - ALTERNATE 1



FIRST FLOOR OVERALL REFLECTED CEILING PLAN **A4**
1/16" = 1'-0"

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NUFSD BOND PHASE 5 PROJECT - BARR MS

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- SED#50-01-08-03-0-003-022 (Maintenance)
- SED#50-01-08-03-0-004-024 (OEC)
- SED#50-01-08-03-0-001-026 (MILLER ES)
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KEY PLAN

REVISIONS

No.	Description	Date
2	BID ADDENDUM #2	1/30/25

ISSUED: BID SET
DATE: 07/19/2024

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

SHEET NAME:
 FIRST FLOOR OVERALL
 RCP

SHEET NUMBER:

BM-A111

PROGRESS SET FOR REVIEW ONLY

1/20/2025 5:01:19 PM

ROOF DETAIL GENERAL NOTES

1. TREMCO-ALPHAGUARD BIO IS THE BASIS OF DESIGN FOR THE FLUID-APPLIED ROOFING OVER EXISTING ROOF

ROOF PLAN GENERAL NOTES:

1. ALL DRAWINGS ARE GRAPHIC REPRESENTATIONS OF APPROXIMATE LOCATIONS OF MATERIALS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK.
2. DIMENSIONS AND CONDITIONS ON THE ROOF PLAN AND DETAILS AREA APPROXIMATE AND MUST BE CONFIRMED BY THE CONTRACTOR. ONLY CERTAIN FASTENERS ARE SHOWN ON THE DRAWINGS, REFER TO SPECIFICATIONS FOR ADDITIONAL FASTENER REQUIREMENTS.
3. TEST THE EXISTING DRAIN LINES WITH A RUNNING HOSE FOR AT LEAST ONE HOUR PRIOR TO STARTING ANY OTHER WORK. PROVIDE A WRITTEN REPORT OF ANY CLOGGED LINES TO THE ARCHITECT AND OWNER. CLOGGED DRAIN LINES WILL BE CLEANED BY THE OWNER.
4. COVER AND PROTECT ALL DRAIN OPENINGS AT THE BEGINNING OF EACH WORK DAY. REMOVE THE COVERS AT THE END OF EACH DAY AND BEFORE PRECIPITATION OCCURS.
5. PERFORM WHATEVER WORK IS REQUIRED TO RESTORE THE DRAIN LINES TO CLEAN, CLEAR, FREE FLOWING CONDITION AT THE COMPLETION OF THE PROJECT.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN WATER TIGHTNESS AND PROVIDE PROTECTION AT ANY/ALL OPENINGS IN THE ROOF LEFT AT THE END OF EACH DAY.
7. REPAIR ALL EXISTING EXHAUST FAN/VENTILATOR HOUSING TO BE WATER TIGHT.
8. NOT ALL NEW EQUIPMENT AND PIPE PENETRATIONS ARE SHOWN ON THE ROOF PLAN (SEE MECHANICAL DRAWINGS). INSTALL NEW PITCH POCKETS OR FIELD FLASHINGS AT ALL NEW EQUIPMENT AND PIPE PENETRATIONS.
9. INSTALL NEW WALKWAY PADS WHERE SHOWN ON THE ROOF PLAN.
10. ALL EXISTING PV PANELS, FRAMING HARDWARE, BALLASTING, AND ALL ASSOCIATED ITEMS TO BE REMOVED, SALVAGED, AND STORED FOR REINSTALLATION. REFER TO ELECTRICAL DRAWINGS FOR ASSOCIATED ELECTRICAL REMOVALS.
11. PROVIDE CRICKETS FOR WATER DIVERSION AT ALL CURBS, RAILS, ETC. WHICH RUN PERPENDICULAR TO THE SLOPE OF THE INSULATION/SLOPED STRUCTURE.
12. ALL EXISTING MTL ROOF EDGES, COPINGS, SCUPPERS, AND FLASHINGS TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
13. INSTALL WALKWAY PADS TO ALL ROOFTOP EQUIPMENT. WALKWAY PAD SHOWN FOR REFERENCE ONLY. VERIFY IN FIELD ALL CONDITIONS AND LOCATIONS.

ROOF LEGEND

-  EXISTING EXHAUST FAN
-  ROOF DRAIN
-  DIRECTION OF ROOF SLOPE
-  EXISTING ROOF VENT
-  EXISTING ROOF HATCH
-  ROOFTOP MECHANICAL EQUIPMENT
-  EXISTING SKYLIGHT
-  ROOF LADDER
-  EXISTING ROOF
-  EXISTING ROOF TO REMAIN WITH NEW LIQUID APPLIED ROOF COATING
-  NEW BUILT UP CANOPY ROOF WITH LIQUID APPLIED COATING

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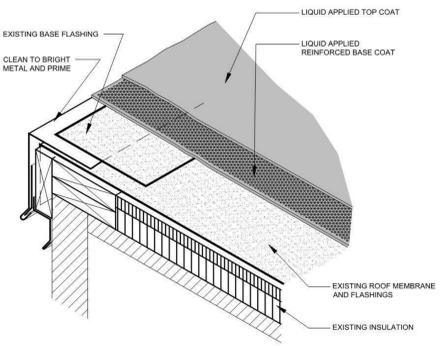
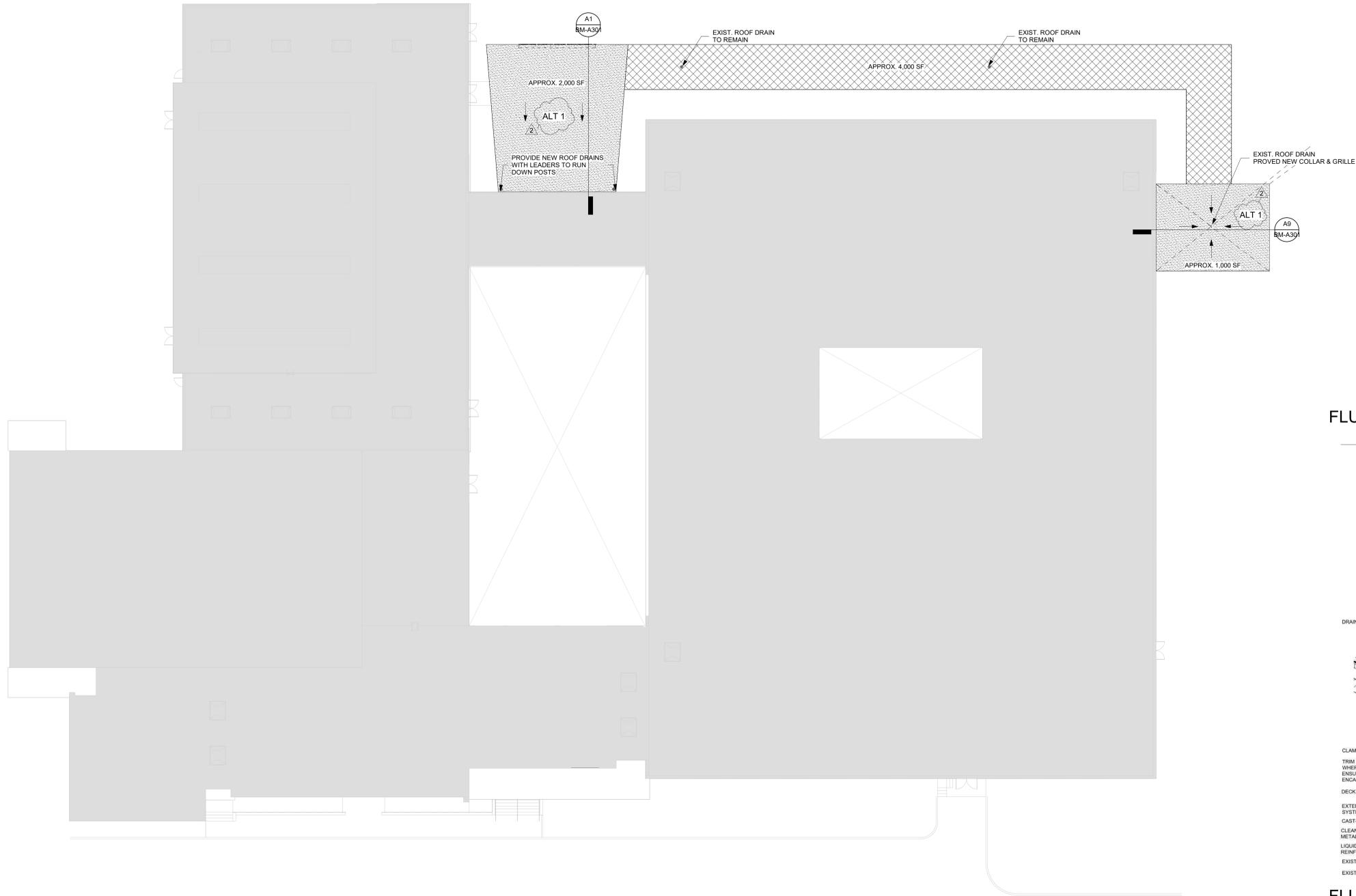
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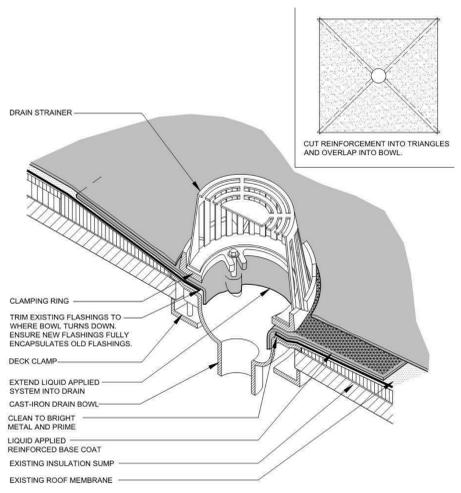
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FLUID-APPLIED ROOFING OVER EXIST. ROOF @ ROOF EDGE (F1)
 N.T.S.



FLUID-APPLIED ROOFING OVER EXIST. ROOF @ ROOF DRAIN (A1)
 N.T.S.

OVERALL ROOF PLAN (A5)
 1/16" = 1'-0"



NUFSD BOND PHASE 5 PROJECT - BARR MS

- SED#50-01-08-03-0-002-020 (HIGHVIEW ES)
 - SED#50-01-08-03-7-001-022 (Maintenance)
 - SED#50-01-08-03-7-012-004 (OEC)
 - SED#50-01-08-03-0-001-026 (MILLER ES)
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KEY PLAN

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2	BID ADDENDUM #2	1/30/25

ISSUED: BID SET
DATE: 07/19/2024
SCALE: As indicated
SHEET NAME: OVERALL CANOPY ROOF PLAN

SHEET NUMBER: BM-A121



ALT 2 OVERALL ROOF PLAN
1/16" = 1'-0" A6

ROOF DETAIL GENERAL NOTES

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6. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN WATER TIGHTNESS AND PROVIDE PROTECTION AT ANY/ALL OPENINGS IN THE ROOF LEFT AT THE END OF EACH DAY.
7. REPAIR ALL EXISTING EXHAUST FAN/VENTILATOR HOUSING TO BE WATER TIGHT.
8. NOT ALL NEW EQUIPMENT AND PIPE PENETRATIONS ARE SHOWN ON THE ROOF PLAN (SEE MECHANICAL DRAWINGS). INSTALL NEW PITCH POCKETS OR FIELD FLASHINGS AT ALL NEW EQUIPMENT AND PIPE PENETRATIONS.
9. INSTALL NEW WALKWAY PADS WHERE SHOWN ON THE ROOF PLAN.
10. ALL EXISTING PV PANELS, FRAMING HARDWARE, BALLASTING, AND ALL ASSOCIATED ITEMS TO BE REMOVED, SALVAGED, AND STORED FOR REINSTALLATION. REFER TO ELECTRICAL DRAWINGS FOR ASSOCIATED ELECTRICAL REMOVALS.
11. PROVIDE CRICKETS FOR WATER DIVERSION AT ALL CURBS, RAILS, ETC. WHICH RUN PERPENDICULAR TO THE SLOPE OF THE INSULATION/SLOPED STRUCTURE.
12. ALL EXISTING MTL ROOF EDGES, COPINGS, SCUPPERS, AND FLASHINGS TO REMAIN. PROTECT THROUGHOUT CONSTRUCTION.
13. INSTALL WALKWAY PADS TO ALL ROOFTOP EQUIPMENT. WALKWAY PAD SHOWN FOR REFERENCE ONLY. VERIFY IN FIELD ALL CONDITIONS AND LOCATIONS.

ROOF LEGEND

	EXISTING EXHAUST FAN
	ROOF DRAIN
	DIRECTION OF ROOF SLOPE
	EXISTING ROOF VENT
	EXISTING ROOF HATCH
	ROOFTOP MECHANICAL EQUIPMENT
	EXISTING SKYLIGHT
	ROOF LADDER
	EXISTING ROOF
	EXISTING ROOF TO REMAIN WITH NEW LIQUID APPLIED ROOF COATING
	NEW BUILT UP CANOPY ROOF WITH LIQUID APPLIED COATING

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NUFSD BOND PHASE 5 PROJECT - BARR MS

- SED#50-01-08-03-0-002-020 (HIGHVIEW ES)
- SED#50-01-08-03-0-001-022 (Maintenance)
- SED#50-01-08-03-0-012-004 (OEC)
- SED#50-01-08-03-0-001-026 (MILLER ES)
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Maintenance Building
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Miller Elementary School
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A MacArthur Barr Middle School
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 Nanuet, NY 10954

KEY PLAN

REVISIONS

No.	Description	Date
2	BID ADDENDUM #2	1/30/25

ISSUED: BID SET

DATE: 07/19/2024

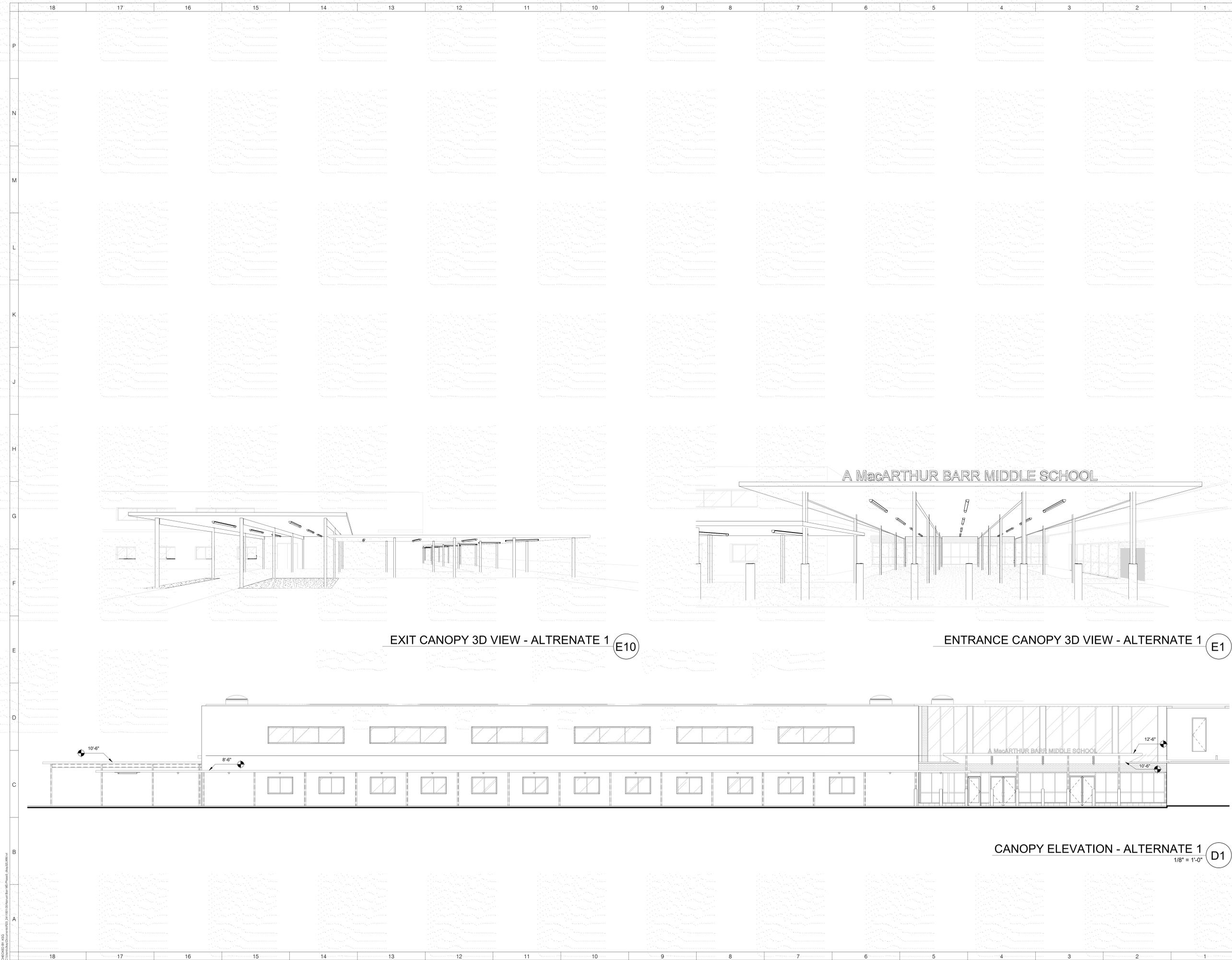
SCALE: As indicated

SHEET NAME:
OVERALL CANOPY ROOF
PLAN - ALTERNATE 2

SHEET NUMBER:

BM-A121.2

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KEY PLAN

REVISIONS

No.	Description	Date

ISSUED: BID SET
DATE: 07/19/2024
SCALE: 1/8" = 1'-0"
SHEET NAME:
 CANOPY ELEVATION
 ALTERNATE 1
SHEET NUMBER:

BM-A201

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REVISIONS

No.	Description	Date
2	BID ADDENDUM #2	1/30/25

ISSUED: BID SET
DATE: 07/19/2024
SCALE: 1 1/2" = 1'-0"
SHEET NAME:
CANOPY SECTIONS
ALTERNATE 1

SHEET NUMBER:
BM-A301

1/20/2025 5:01:25 PM
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ROOM FINISH SCHEDULE

NUMBER	NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH
06	BREAK ROOM	LVT-1	WB-1	PT-1	ACT-1
05A	CL	LVT-1	WB-1	PT-1	GYP-1
02	OFFICE	LVT-1	WB-1	PT-1	ACT-1
05	SECY'S	LVT-1	WB-1	PT-1	ACT-1
03	TOILET	LVT-1	WB-1	PT-1	GYP-2
04	TOILET	LVT-1	WB-1	PT-1	GYP-2

FINISH SCHEDULE

SYMBOL	MATERIAL TYPE	MANUFACTURER	PATTERN	COLOR	NOTES
ACT-1	ACCOUSTICAL CEILING TILE 2X2	ARMSTRONG	SERPENTINA - 815V916PT W/ ACOUSTICAL INFILL PANELS R062 PERFORATION	SILVER SATIN TRIM - SILVER SATIN	
ACT-2	ACCOUSTICAL CEILING TILE 2X4	ARMSTRONG	SERPENTINA - SVT1245R062 W/ ACOUSTICAL INFILL PANELS R062 PERFORATION	SILVER SATIN TRIM - SILVER SATIN	
LVT-1	LVT TILE FLOORING	INTERFACE	TEXTURED STONES 3.0MM	C01302 LIGHT CONCRETE	OFFICE FLOORING
MTL-1	SHEET METAL			CUSTOM CUT OUTS	
MTL-2	METAL				
PT-1	PAINT	SHERWIN WILLIAMS	EGG SHELL	SW 7028 INCREDIBLE WHITE	FIELD PAINT - WALLS & CEILINGS
SC-1	SEALED CONCRETE				
WB-1	WALL BASE	TARKETT	6" COVED WALL BASE	GRAY 48	

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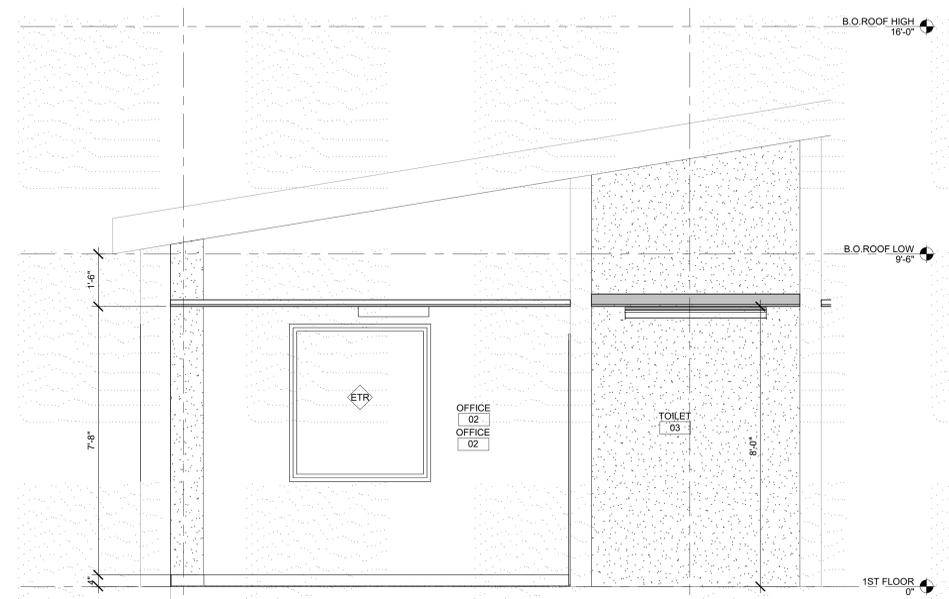
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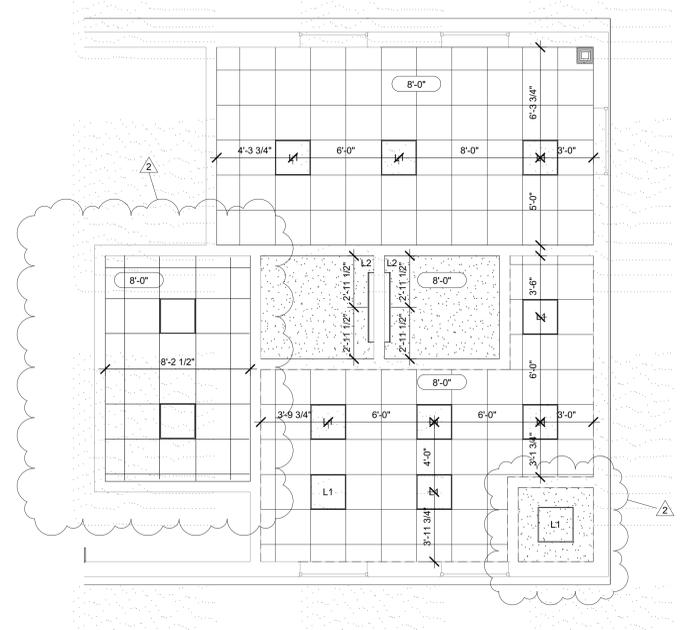
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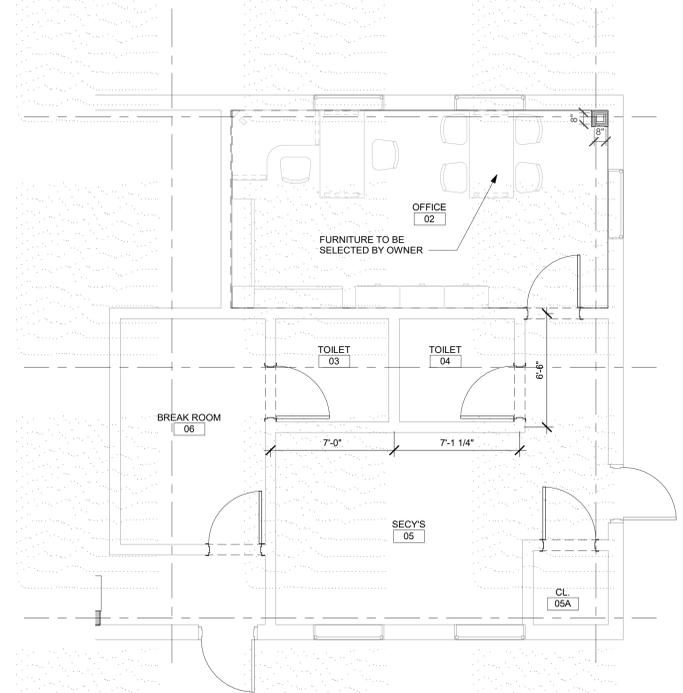



OFFICE RENDERING **G7**

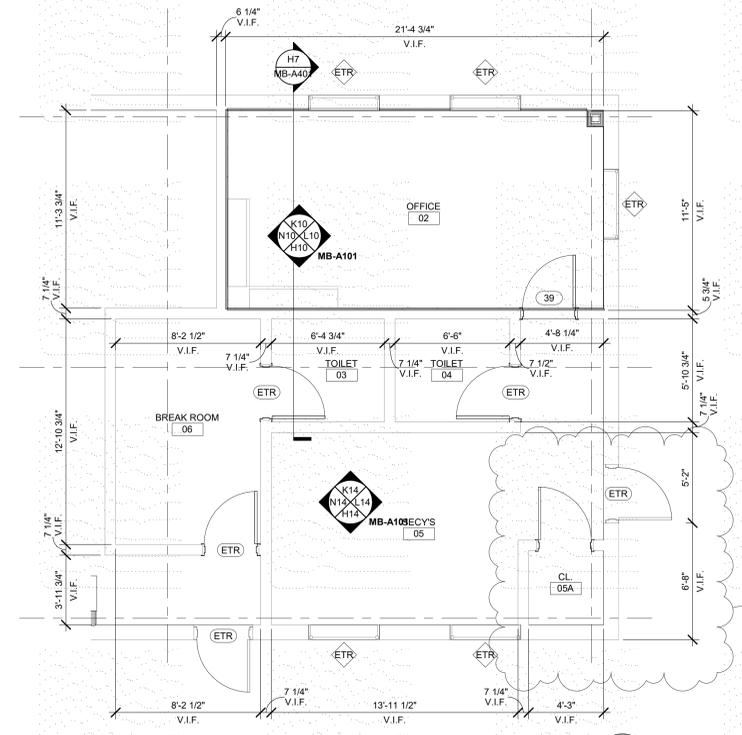
OFFICE SECTION **H7**
 1/2" = 1'-0"



ENLARGED FIRST FLOOR RCP - OFFICE **A14**
 1/4" = 1'-0"



ENLARGED FINISH FLOOR PLAN - OFFICE **A8**
 1/4" = 1'-0"



ENLARGED FIRST FLOOR PLAN - OFFICE **A2**
 1/4" = 1'-0"

- SED#50-01-08-03-0-002-020 (HIGHVIEW ES)
 - SED#50-01-08-03-7-001-020 (Maintenance)
 - SED#50-01-08-03-7-012-004 (OEC)
 - SED#50-01-08-03-0-001-026 (MILLER ES)
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KEY PLAN

REVISIONS		
No.	Description	Date
2	ADDENDUM #2	1/30/25

ISSUED: BID SET
DATE: 06/21/2024
SCALE: As indicated
SHEET NAME:
 ENLARGED FLOOR PLAN,
 RCP, AND FINISH
 SCHEDULES - OFFICE
SHEET NUMBER:

MB-A401

PROGRESS SET FOR REVIEW ONLY

SYMBOLS LEGEND:

- RECESSED PANEL
- SURFACE MOUNTED PANEL
- JUNCTION BOX
- HOME RUN IN ITS OWN CONDUIT TO PANEL. #12, #10, #8 UNLESS OTHERWISE NOTED. PROVIDE SEPARATE GROUND AND NEUTRAL FOR EACH BRANCH CIRCUIT.
- X INDICATES PANEL
- Z, Y INDICATES CIRCUIT NUMBERS
- PROVIDE BREAKER IN INDICATED PANEL WHERE
- Y INDICATES TRIP RATING IN AMPS
- # INDICATES NUMBER OF POLES
- CIRCUIT CONTINUATION WITH 'Y' INDICATING DEVICE OR AREA DESCRIPTION
- X INDICATES PANEL
- Z, Y INDICATES CIRCUIT NUMBERS
- CIRCUIT CONSISTING OF GROUND, NEUTRAL AND PHASE CONDUCTORS. SHORT SOLID LINES INDICATE PHASE CONDUCTORS. A LONG SOLID LINE INDICATES NEUTRAL. A LONG DASHED LINE INDICATES AN EQUIPMENT GROUND. PROVIDE A SEPARATE GREEN EQUIPMENT GROUND CONDUCTOR IN ALL NEW CIRCUITS.
- CONNECTION POINT
- DUPLEX RECEPTACLE
- QFI INDICATES GROUND FAULT CIRCUIT INTERRUPTER
- AFI INDICATES ARC FAULT CIRCUIT INTERRUPTER
- WP WEATHER-PROOF DEVICE WITH WEATHER PROOF WHILE IN USE COVER
- QUADRUPLEX RECEPTACLE
- S SINGLE POLE SWITCH, 20 AMP 120/277 UNLESS NOTED OTHERWISE
- MS INDICATES HRP RATED GENERAL USE SNAP SWITCH WITH OVERLOADS SIZED FOR EQUIPMENT AND LOCKABLE HASP
- 3MS INDICATES 3 POLE 600 VOLT 30 AMP 3HP RATED MANUAL MOTOR STARTER WITH LOCKABLE HASP
- WP INDICATES WEATHER PROOF
- VS INDICATES VACUANCY SENSOR SWITCH
- TELEPHONE OUTLET MOUNTED AT 48" UON
- DATA OUTLET 1-PORT IN FACEPLATE
- ROUTER INDICATES WALL MOUNTED INTERNET ROUTER
- DATA OUTLET 2-PORTS IN FACEPLATE
- WIFI ANTENNA
- OR/CEILING OR WALL MOUNTED LED EXIT SIGN. PROVIDE DIRECTIONAL ARROWS AS SHOWN ON DRAWINGS
- OR/CEILING OR WALL MOUNTED EMERGENCY LIGHTING UNIT
- OR/CEILING OR WALL MOUNTED COMBINATION EXIT SIGN / EMERGENCY LIGHTING UNIT
- PENDANT, SURFACE, OR WALL LIGHT FIXTURE. SEE FIXTURE SCHEDULE FOR TYPE.
- RECESSED LIGHT FIXTURE. SEE FIXTURE SCHEDULE FOR TYPE.
- DOWNLIGHT. SEE FIXTURE SCHEDULE FOR TYPE.

ABBREVIATIONS: (SOME MAY NOT BE USED)

A AMP	IT INTERNAL TECHNOLOGIES	UON UNLESS OTHERWISE NOTED
AC ABOVE COUNTER	JB JUNCTION BOX	UPS UNINTERRUPTIBLE POWER SUPPLY
ACC AIR COOLED CONDENSING UNIT	K KLO	UTP UNSHIELDED TWISTED PAIR
ADP ACCESS CONTROL PANEL	KVA KILOWATT AMPERE	V VOLT
AFI ARC FAULT CIRCUIT INTERRUPTER	KW KILOWATT	W WAIT
AFF ABOVE FINISHED FLOOR	LBS POUNDS	WH WATER HEATER
AFG ABOVE FINISHED GRADE	LV LOW VOLTAGE	WI WITH
AGU AIR HANDLING UNIT	MAX MAXIMUM	WP WEATHERPROOF
AWG AMERICAN WIRE GAGE	MC METAL CLAD CABLE	XFRM TRANSFORMER
BFG BELOW FINISHED GRADE	MCB MAIN CIRCUIT BREAKER	
BLDG BUILDING	MDP MAIN DISTRIBUTION PANEL	
BTU BRITISH THERMAL UNITS	MH MOUNTING HEIGHT	
C CONDUIT	MIN MINIMUM	
CAT CATEGORY	MLO MAIN LUGS ONLY	
CB CIRCUIT BREAKER	MM MULTIMODE FIBER OPTIC CABLE	
CFM CUBIC FEET PER MINUTE	MS MOTOR STARTING	
CKT CIRCUIT	MTG MOUNTING	
COMM COMMUNICATION	NEC NATIONAL ELECTRIC CODE	
CONT CONTINUED	NIGHT LIGHT	
CT CURRENT TRANSFORMER	NO/NC NORMALLY OPEN/NORMALLY CLOSED	
CU COPPER	OC ORIGINAL EQUIPMENT MANUFACTURER	
CUH CABINET UNIT HEATER	OLS THERMAL OVERLOAD UNITS	
CVT CONTROL VOLTAGE TRANSFORMER	P POLE	
DDC DIRECT DIGITAL CONTROL	PC PHOTOCELL	
DLC DESIGN LIGHTS CONSORTIUM	PE PHOTO EYE	
DSP GARBAGE DISPOSAL	PIV POST INDICATING VALVE	
DW DISHWASHER	POE POWER OVER ETHERNET	
DWG DRAWING	PR PAIR	
ECC ELECTRICAL CONTRACTOR	PVC POLYVINYL CHLORIDE	
ECB ENCLOSED CIRCUIT BREAKER	RAF RETURN AIR FAN	
EM EMERGENCY	RECEPT RECEPTACLE	
EMT ELECTRICAL METALLIC TUBING	RELOCATE RELOCATE	
ELU EMERGENCY LIGHTING UNIT	REPLACE REPLACE	
ES ELECTRIC STRIKE	RGS RIGID GALVANIZED STEEL	
EXR EXISTING TO REMAIN	RM REVOLUTIONS PER MINUTE	
FA FIRE ALARM	SCH SCHEDULE	
FAAP FIRE ALARM ANNUNCIATOR PANEL	SER SERVICE ENTRANCE RATED	
FACP FIRE ALARM CONTROL PANEL	SF SQUARE FOOT	
FIBER FIBER OPTIC CABLE CROSS CONNECT CABINET	SFL SUB-FEED LUGS	
FLR FLOOR	SH SHIELDED	
FEET FEET	SM SINGLE MODE FIBER OPTIC CABLE	
FTL FEED-THRU LUGS	SPD SURGE PROTECTION DEVICE	
FVNR FULL VOLTAGE NON-REVERSING	SR SURFACE RACEWAY	
G GROUND	SWG SWITCHEAR	
GC GENERAL CONTRACTOR	TBB TELEPHONE BACKBOARD	
GFI GROUND FAULT CIRCUIT INTERRUPTER	TSP TWISTED SHIELDED PAIR	
GPM GALLONS PER MINUTE	TW TWISTED	
H HEIGHT	TYP TYPICAL	
HC HANDICAP ACCESSIBLE	UG UNDERGROUND	
HH HAND HOLE	UGE UNDERGROUND ELECTRIC	
HOA HAND-OFF-AUTO SWITCH	UGT UNDERGROUND TELECOMMUNICATION	
HP HORSEPOWER	UH UNIT HEATER	
HVAC HEATING, VENTILATION AND/OR AIR CONDITIONING		
IG ISOLATED GROUND		
IN INCHES		

GENERAL NOTES:

- THE EXISTING FIRE ALARM PANEL IS A FIRELITE MS-6012 PANEL MAINTAINED BY SAFENET SECURITY SYSTEMS. OBTAIN THE SERVICES OF THE OWNER'S FIRE ALARM VENDOR FOR PROGRAMMING, ADDITIONS, AND/OR RELOCATIONS OF EXISTING FIRE ALARM SYSTEM DEVICES.

KEYED NOTES:

- REMOVE EXISTING LIGHT FIXTURE. PROVIDE NEW LIGHT FIXTURE AND CONNECT TO EXISTING CIRCUIT SERVING AREA.
- PROVIDE EMERGENCY LIGHTING UNIT "ELU" AND CONNECT TO EXISTING CIRCUIT THAT FEEDS LIGHTING AHEAD OF SWITCHING.
- DISCONNECT SPLIT SYSTEM CIRCUIT BACK TO SOURCE.
- DISCONNECT BASEBOARD HEATER CIRCUIT BACK TO SOURCE.
- REPLACE EXISTING PANELBOARD, RECONNECT FEEDER AND BRANCH CIRCUITS.
- PROVIDE 4" EMT CONDUIT, 24" ABOVE CEILING FOR FUTURE SERVICE UPGRADE. PROVIDE PULL STRING.

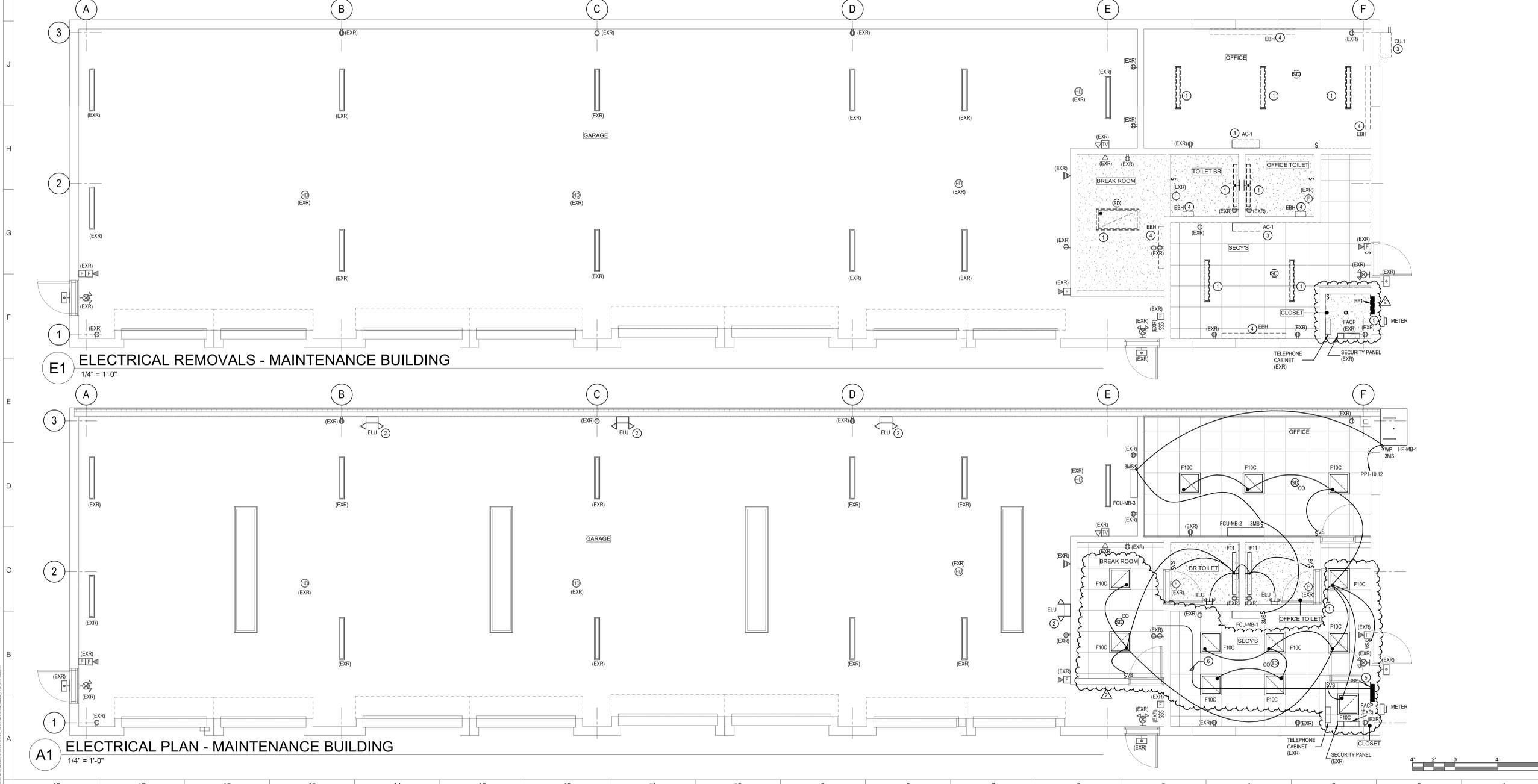
FIRE ALARM LEGEND:

- FIRE ALARM CONTROL PANEL
- PULL STATION
- SMOKE DETECTOR
- CO INDICATES WITH CARBON MONOXIDE BASE
- HEAT DETECTOR - RATE OF RISE, FIXED TEMPERATURE 135°F
- WALL MOUNTED STROBE ONLY NOTIFICATION APPLIANCE. 15 CANDELA UNLESS NOTED OTHERWISE
- X INDICATES CANDELA RATING STROBE LUM
- WALL MOUNTED FIRE ALARM COMBINATION HORN/STROBE. 15 CANDELA UNLESS NOTED OTHERWISE
- X INDICATES CANDELA RATING STROBE LUM

LIGHTING CONTROL NARRATIVE:

- WHERE SHOWN WITH WALL MOUNTED VACANCY SENSORS, LIGHTS ARE MANUAL ON, AUTOMATIC OFF AFTER 20 MINUTES WHEN NO MOTION IS DETECTED.

M3 SINGLE LINE DIAGRAM
N.T.S.



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KEY PLAN

REVISIONS

No.	Description	Date
2	Addendum #2	01/30/25

ISSUED: 50% CD SET

DATE: 06/21/2024

SCALE: AS NOTED

SHEET NAME: OVERALL ELECTRICAL PLANS

SHEET NUMBER: MB-E101

ISSUE FOR BID SET

NAME: PP1		EXISTING PANEL TO BE REMOVED									
MOUNTING: RECESSED	VOLTS: 120/240V	PHASE: 1					WIRE: 3				
MAIN RATING: 200 A	MCB: 200 A	MIN AC RATING: 10,000					AMPS RMS SYM				
OTHER:		LOCATION: CLOSET									
NOTES:											

CKT	DESCRIPTION	LOAD	WIRE	BKR	P	A	B	A	B	P	BKR	WIRE	LOAD	DESCRIPTION	CKT
1	EXISTING LOAD	--	--	20	1	0	0	0	0	1	20	--	--	LOG OFFICES	2
3	EXISTING LOAD	--	--	20	1	0	0	0	0	1	20	--	--	EXISTING LOAD	4
5	GARAGE	--	--	20	1	0	0	0	0	1	20	--	--	EXISTING LOAD	6
7	EXISTING LOAD	--	--	20	1	0	0	0	0	1	20	--	--	EXISTING LOAD	8
9	EXISTING LOAD	--	--	20	1	0	0	0	0	2	20	--	--	CONDENSING UNIT 1416 (REM)	10
11	SPARE	--	--	20	1	0	0	0	0	--	--	--	--	--	12
13	RECEPT GROUNDS TABLE	--	--	20	1	0	0	0	0	2	40	--	--	AC (REM)	14
15	HEAT RECEPTION (REM)	--	--	20	1	0	0	0	0	--	--	--	--	--	16
17	HEAT LOCKER ROOM (REM)	--	--	20	1	0	0	0	0	1	20	--	--	EXISTING LOAD	18
19	HEAT GARAGE	--	--	30	2	0	0	0	0	2	30	--	--	HEAT OFFICE (REM)	20
21		--	--	--	--	0	0	0	0	--	--	--	--	--	22
23	EXISTING LOAD	--	--	20	1	0	0	0	0	1	20	--	--	EXISTING LOAD	24
25	EXISTING LOAD	--	--	30	1	0	0	0	0	1	20	--	--	FIRE ALARM/LOT IN CLOSET	26
27	HOT WATER	--	--	30	2	0	0	0	0	2	20	--	--	AC WALL AIR HANDLER (REM)	28
29		--	--	--	--	0	0	0	0	--	--	--	--	--	30
31	AIR COMP	--	--	30	2	0	0	0	0	1	20	--	--	EXISTING LOAD	32
33		--	--	--	--	0	0	0	0	1	20	--	--	GARAGE BOILER	34
35	WELDING RECEPT	--	--	30	2	0	0	0	0	1	20	--	--	LOG EXIT EMERGENCY	36
37		--	--	--	--	0	0	0	0	1	20	--	--	HEAT BATHOFFICE (REM)	38
39		--	--	--	--	1	--	--	--	1	--	--	--	--	40

NAME: PP1		PANEL SCHEDULE									
MOUNTING: RECESSED	VOLTS: 120/240V	PHASE: 1					WIRE: 3				
MAIN RATING: 200 A	MCB: 200 A	MIN AC RATING: 10,000					AMPS RMS SYM				
OTHER:		LOCATION: CLOSET									
NOTES:											

CKT	DESCRIPTION	LOAD	WIRE	BKR	P	A	B	A	B	P	BKR	WIRE	LOAD	DESCRIPTION	CKT
1	EXISTING LOAD	--	--	20	1	0	0	476	0	1	20	--	476	LOG OFFICES	2
3	EXISTING LOAD	--	--	20	1	0	0	0	0	1	20	--	--	EXISTING LOAD	4
5	GARAGE	--	--	20	1	0	0	0	0	1	20	--	--	EXISTING LOAD	6
7	EXISTING LOAD	--	--	20	1	0	0	0	0	1	20	--	--	EXISTING LOAD	8
9	EXISTING LOAD	--	--	20	1	0	0	2892	0	2	20	--	2912 #10G #12N 4184	HP-MB-1(FGU-MB-1,2,3) Room GARAGE, SECYS	10
11	SPARE	--	--	20	1	0	0	0	0	--	--	--	--	--	12
13	RECEPT GROUNDS TABLE	--	--	20	1	0	0	0	0	2	40	--	--	SPARE	14
15	SPARE	--	--	20	1	0	0	0	0	--	--	--	--	--	16
17	SPARE	--	--	20	1	0	0	0	0	1	20	--	--	EXISTING LOAD	18
19	HEAT GARAGE	--	--	30	2	0	0	0	0	2	30	--	--	SPARE	20
21		--	--	--	--	0	0	0	0	--	--	--	--	--	22
23	EXISTING LOAD	--	--	20	1	0	0	0	0	1	20	--	--	EXISTING LOAD	24
25	EXISTING LOAD	--	--	30	1	0	0	0	0	1	20	--	--	FIRE ALARM/LOT IN CLOSET	26
27	HOT WATER	--	--	30	2	0	0	0	0	2	20	--	--	SPARE	28
29		--	--	--	--	0	0	0	0	--	--	--	--	--	30
31	AIR COMP	--	--	30	2	0	0	0	0	1	20	--	--	EXISTING LOAD	32
33		--	--	--	--	0	0	0	0	1	20	--	--	GARAGE BOILER	34
35	WELDING RECEPT	--	--	30	2	0	0	0	0	1	20	--	--	LOG EXIT EMERGENCY	36
37		--	--	--	--	0	0	0	0	1	20	--	--	SPARE	38
39	SPARE	--	--	20	1	0	0	0	0	1	20	--	--	SPARE	40
41	SPARE	--	--	20	1	0	0	0	0	1	20	--	--	SPARE	42

LIGHTING FIXTURE SCHEDULE								
TYPE	DESCRIPTION	MANUFACTURER	LAMP			VOLTS	FIXTURE REMARKS	
			TYPE	WATTS	LUMENS			COLOR
F10C	RECESSED 2 X 2 LED ILLUMINATED PANEL	LITHONIA #CPX 2X2 AL07 80CRI SSW7 SWL MVOLT	LED	34.9 W	4322 lm	3500 K	120	REFERENCE ARCHITECTURAL DRAWINGS
F11	4" SURFACE OR WALL MOUNTED LED DAMP LOCATION	LITHONIA #CLX-L24-4000LM-SEF-WDL-120V-GZ10-35K-80CRI-HH	LED	25.5 W	4118 lm	3500 K	120	REFERENCE ARCHITECTURAL DRAWINGS
ELU	LED EMERGENCY LIGHTING UNIT WITH ADJUSTABLE HEADS, SELF-DIAGNOSTICS	LITHONIA HELMLEDSD	LED	2.9 W			120	

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Nanuet, NY 10954

KEY PLAN

REVISIONS		
No.	Description	Date
2	Addendum #2	01/30/25

ISSUED: 50% CD SET

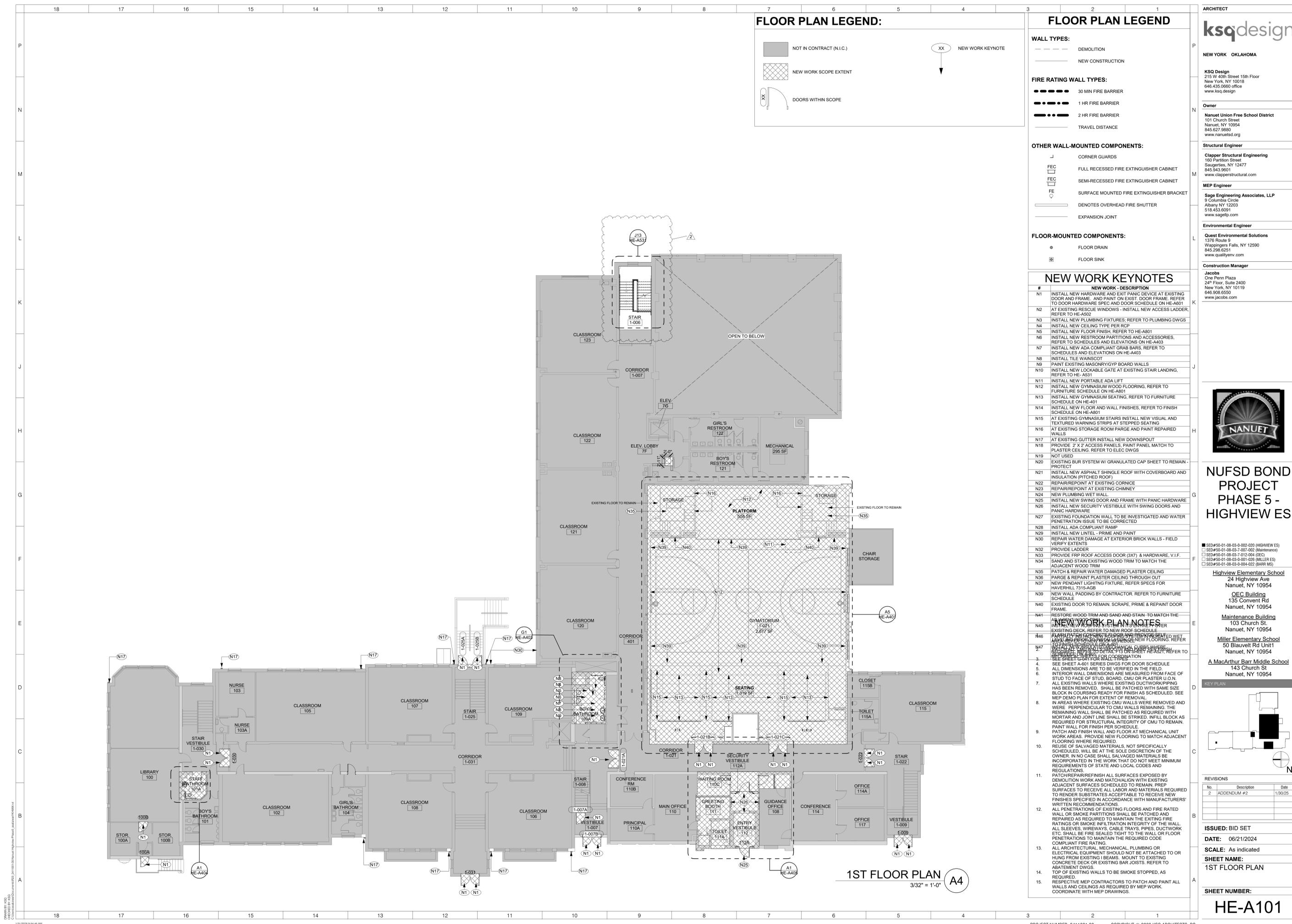
DATE: 06/21/2024

SCALE: AS NOTED

SHEET NAME:
PANEL AND FIXTURES SCHEDULES

SHEET NUMBER:
MB-E601

ISSUE FOR BID SET



FLOOR PLAN LEGEND:

- NOT IN CONTRACT (N.I.C.)
- NEW WORK SCOPE EXTENT
- DOORS WITHIN SCOPE
- NEW WORK KEYNOTE

FLOOR PLAN LEGEND

WALL TYPES:

- DEMOLITION
- NEW CONSTRUCTION

FIRE RATING WALL TYPES:

- 30 MIN FIRE BARRIER
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- TRAVEL DISTANCE

OTHER WALL-MOUNTED COMPONENTS:

- CORNER GUARDS
- FULL RECESSED FIRE EXTINGUISHER CABINET
- SEMI-RECESSED FIRE EXTINGUISHER CABINET
- SURFACE MOUNTED FIRE EXTINGUISHER CABINET
- DENOTES OVERHEAD FIRE SHUTTER
- EXPANSION JOINT

FLOOR-MOUNTED COMPONENTS:

- FLOOR DRAIN
- FLOOR SINK

NEW WORK KEYNOTES

#	NEW WORK - DESCRIPTION
N1	INSTALL NEW HARDWARE AND EXIT PANIC DEVICE AT EXISTING DOOR AND FRAME. AND PAINT ON EXIST. DOOR FRAME. REFER TO DOOR HARDWARE SPEC AND DOOR SCHEDULE ON HE-A601
N2	AT EXISTING RESCUE WINDOWS - INSTALL NEW ACCESS LADDER. REFER TO HE-A502
N3	INSTALL NEW PLUMBING FIXTURES, REFER TO PLUMBING DWGS
N4	INSTALL NEW CEILING TYPE PER RCP
N5	INSTALL NEW FLOOR FINISH, REFER TO HE-A801
N6	INSTALL NEW RESTROOM PARTITIONS AND ACCESSORIES, REFER TO SCHEDULES AND ELEVATIONS ON HE-A403
N7	INSTALL NEW ADA COMPLIANT GRAB BARS, REFER TO SCHEDULES AND ELEVATIONS ON HE-A403
N8	INSTALL TILE WAINSCOT
N9	PAINT EXISTING MASONRY/GYP BOARD WALLS
N10	INSTALL NEW LOCKABLE GATE AT EXISTING STAIR LANDING, REFER TO HE-AS31
N11	INSTALL NEW PORTABLE ADA LIFT
N12	INSTALL NEW GYMNASIUM WOOD FLOORING, REFER TO FURNITURE SCHEDULE ON HE-A801
N13	INSTALL NEW GYMNASIUM SEATING, REFER TO FURNITURE SCHEDULE ON HE-A801
N14	INSTALL NEW FLOOR AND WALL FINISHES, REFER TO FINISH SCHEDULE ON HE-A801
N15	AT EXISTING GYMNASIUM STAIRS INSTALL NEW VISUAL AND TEXTURED WARNING STRIPS AT STEPPED SEATING
N16	AT EXISTING STORAGE ROOM PARGE AND PAINT REPAIRED WALLS
N17	AT EXISTING GLITTER INSTALL NEW DOWNSPOUT
N18	PROVIDE 2' X 2' ACCESS PANELS, PAINT PANEL MATCH TO PLASTER CEILING. REFER TO ELEC DWGS
N19	NOT USED
N20	EXISTING BUR SYSTEM W/ GRANULATED CAP SHEET TO REMAIN - PROTECT
N21	INSTALL NEW ASPHALT SHINGLE ROOF WITH COVERBOARD AND INSULATION (PITCHED ROOF)
N22	REPAIR/REPOINT AT EXISTING CORNICE
N23	REPAIR/REPOINT AT EXISTING CHIMNEY
N24	NEW PLUMBING WET WALL
N25	INSTALL NEW SWING DOOR AND FRAME WITH PANIC HARDWARE
N26	INSTALL NEW SECURITY VESTIBULE WITH SWING DOORS AND PANIC HARDWARE
N27	EXISTING FOUNDATION WALL TO BE INVESTIGATED AND WATER PENETRATION ISSUE TO BE CORRECTED
N28	INSTALL ADA COMPLIANT RAMP
N29	INSTALL NEW LINTEL - PRIME AND PAINT
N30	REPAIR WATER DAMAGE AT EXTERIOR BRICK WALLS - FIELD VERIFY EXTENTS
N32	PROVIDE LADDER
N33	PROVIDE FRP ROOF ACCESS DOOR (3X7) & HARDWARE, V.I.F.
N34	SAND AND STAIN EXISTING WOOD TRIM TO MATCH THE ADJACENT WOOD TRIM
N35	PATCH & REPAIR WATER DAMAGED PLASTER CEILING
N36	PARGE & REPAINT PLASTER CEILING THROUGH OUT
N37	NEW PENDANT LIGHTING FIXTURE, REFER SPECS FOR HAVERHILL 7315-AGB
N39	NEW WALL PADDING BY CONTRACTOR. REFER TO FURNITURE SCHEDULE
N40	EXISTING DOOR TO REMAIN. SCRAPE, PRIME & REPAINT DOOR FRAME
N41	RESTORE WOOD TRIM AND SAND AND STAIN TO MATCH THE ADJACENT WOOD TRIM
N45	INSTALL NEW SECURITY SYSTEM IN STAIR TOWER
N46	FLASH PATCHES ON ROOF AND PROVIDE SLOPED WET FLOORING REFER TO MECHANICAL DWGS
N47	INSTALL NEW SECURITY MECHANICAL CHIMNEYS REFER TO MECHANICAL DWGS FOR SCHEDULES, REFER TO MECHANICAL DWGS FOR COORDINATION
3	SEE SHEET A-601 SERIES DWGS FOR DOOR SCHEDULE
5	ALL DIMENSIONS ARE TO BE VERIFIED IN THE FIELD
6	INTERIOR WALL DIMENSIONS ARE MEASURED FROM FACE OF STUD TO FACE OF STUD, BOARD, CMU OR PLASTER U.O.N.
7	ALL EXISTING WALLS WHERE EXISTING DUCTWORK/PIPPING HAS BEEN REMOVED, SHALL BE PATCHED WITH SAME SIZE BLOCK IN COURSE READY FOR FINISH AS SCHEDULED. SEE MEP DEMO PLAN FOR EXTENT OF REMOVAL
8	IN AREAS WHERE EXISTING CMU WALLS WERE REMOVED AND WERE PERPENDICULAR TO CMU WALLS REMAINING, THE REMAINING WALL SHALL BE PATCHED AS REQUIRED WITH MORTAR AND JOINT LINE SHALL BE STRIKED. INFILL BLOCK AS REQUIRED FOR STRUCTURAL INTEGRITY OF CMU TO REMAIN. PAINT WALL FOR FINISH PER SCHEDULE
9	PATCH AND FINISH WALL AND FLOOR AT MECHANICAL UNIT WORK AREAS. PROVIDE NEW FLOORING TO MATCH ADJACENT FLOORING WHERE REQUIRED
10	REUSE OF SALVAGED MATERIALS, NOT SPECIFICALLY SCHEDULED, WILL BE AT THE SOLE DISCRETION OF THE OWNER. IN NO CASE SHALL SALVAGED MATERIALS BE INCORPORATED IN THE WORK THAT DO NOT MEET MINIMUM REQUIREMENTS OF STATE AND LOCAL CODES AND REGULATIONS
11	PATCH/REPAIR/REFINISH ALL SURFACES EXPOSED BY DEMOLITION WORK AND MATCH/ALIGN WITH EXISTING ADJACENT SURFACES SCHEDULED TO REMAIN. PREP SURFACES TO RECEIVE ALL LABOR AND MATERIALS REQUIRED TO RENDER SUBSTRATES ACCEPTABLE TO RECEIVE NEW FINISHES SPECIFIED IN ACCORDANCE WITH MANUFACTURERS' WRITTEN RECOMMENDATIONS
12	ALL PENETRATIONS OF EXISTING FLOORS AND FIRE RATED WALL OR SMOKE PARTITIONS SHALL BE PATCHED AND REPAIRED AS REQUIRED TO MAINTAIN THE EXISTING FIRE RATINGS OR SMOKE INFILTRATION INTEGRITY OF THE WALL. ALL SLEEVES, WIREWAYS, CABLE TRAYS, PIPES, DUCTWORK ETC. SHALL BE FIRE SEALED TIGHT TO THE WALL OR FLOOR PENETRATIONS TO MAINTAIN THE REQUIRED CODE COMPLIANT FIRE RATING
13	ALL ARCHITECTURAL, MECHANICAL, PLUMBING OR ELECTRICAL EQUIPMENT SHOULD NOT BE ATTACHED TO OR HUNG FROM EXISTING BEAMS. MOUNT TO EXISTING CONCRETE DECK OR EXISTING BAR JOISTS. REFER TO ABATEMENT DWGS
14	TOP OF EXISTING WALLS TO BE SMOKE STOPPED, AS REQUIRED
15	RESPECTIVE MEP CONTRACTORS TO PATCH AND PAINT ALL WALLS AND CEILINGS AS REQUIRED BY MEP WORK. COORDINATE WITH MEP DRAWINGS.

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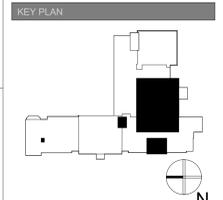
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NUFSD BOND PROJECT PHASE 5 - HIGHVIEW ES

- SED#50-01-08-03-0-002-020 (HIGHVIEW ES)
- SED#50-01-08-03-7-001-022 (Maintenance)
- SED#50-01-08-03-7-012-004 (OEC)
- SED#50-01-08-03-0-001-028 (MILLER ES)
- SED#50-01-08-03-0-004-022 (BARR MS)

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REVISIONS

No.	Description	Date
2	ADDENDUM #2	1/30/25

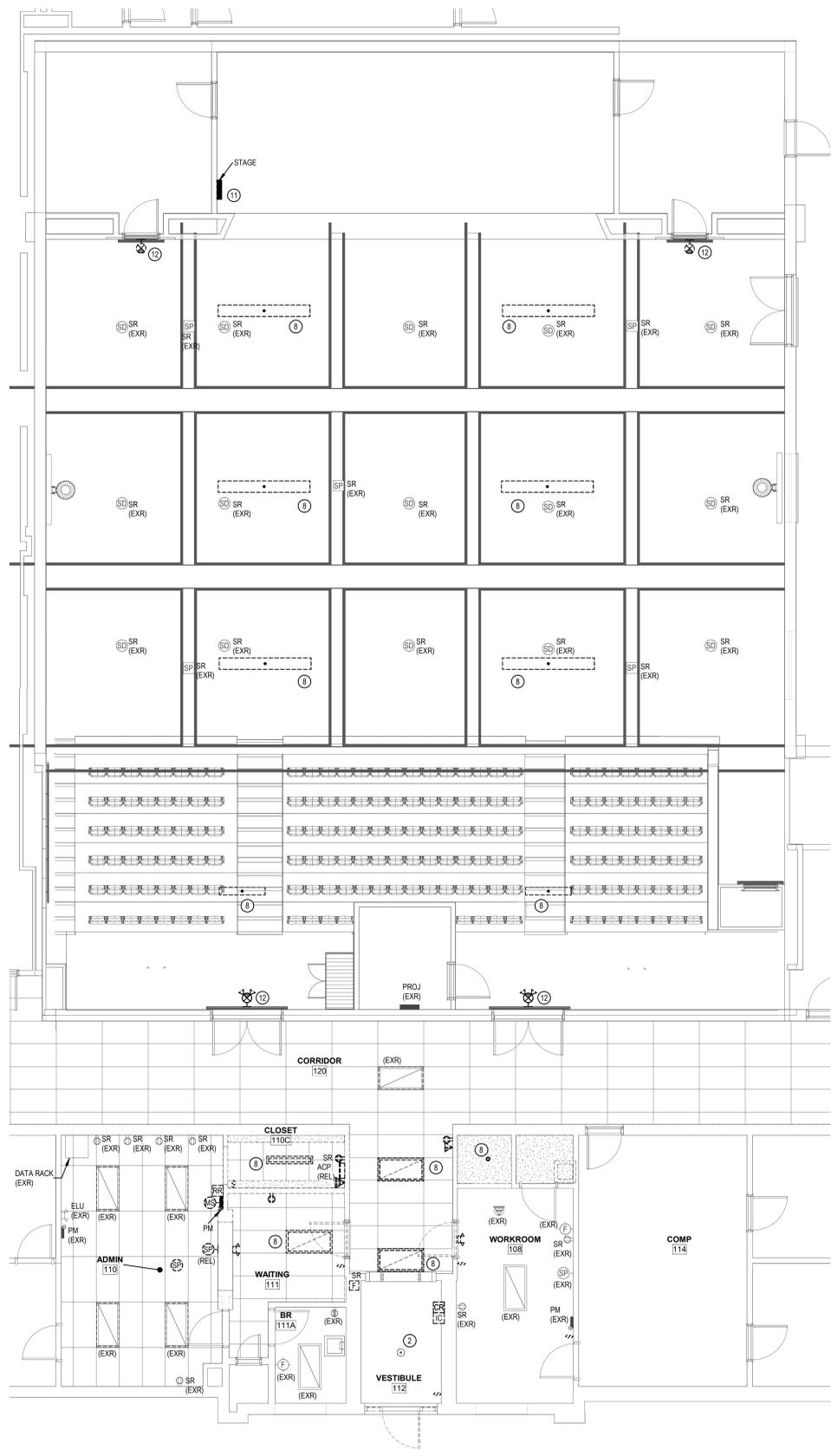
ISSUED: BID SET

DATE: 06/21/2024

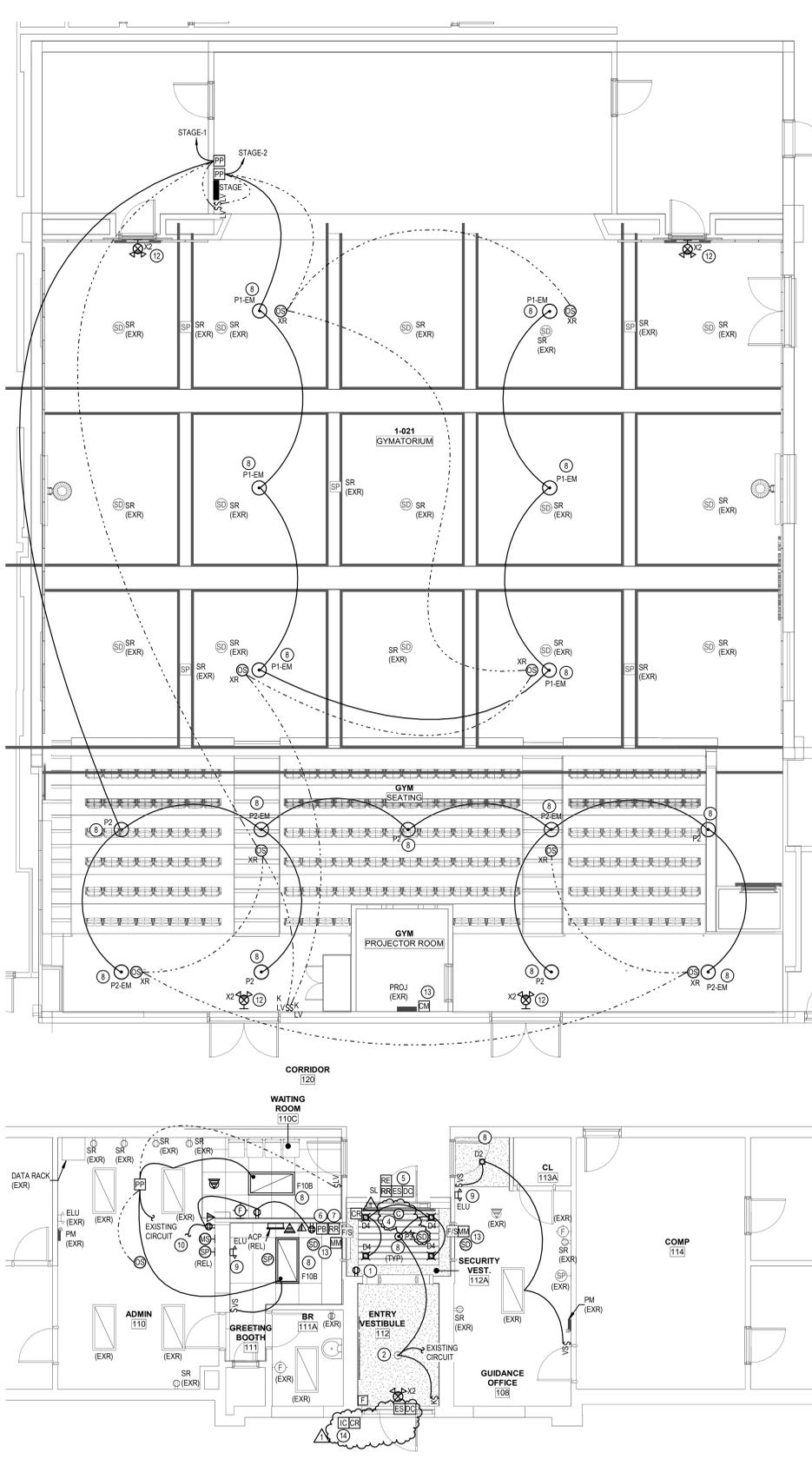
SCALE: As indicated

SHEET NAME: 1ST FLOOR PLAN

SHEET NUMBER: HE-A101



A15 ENLARGED FIRST FLOOR ELECTRICAL REMOVALS
3/16" = 1'-0"



A11 ENLARGED FIRST FLOOR ELECTRICAL PLAN
3/16" = 1'-0"

GENERAL NOTES:

1. SEE HE-E001 FOR GENERAL PROJECT NOTES.

KEYED NOTES:

1. ALL RECEPTACLES REPLACED IN MAIN LOBBY TO HAVE BRONZE FINISH FACEPLATES. COORDINATE WITH ARCHITECTURAL DRAWINGS.
2. CLEAN, REUSE EXISTING PENDANT LIGHT. REMOVE ORIGINAL CONDUCTORS SERVING FIXTURES BACK TO SOURCE.
3. PROVIDE POE CAMERA AXIS P205-LVE 9MM AND 1 CAT 6 CABLE TO CLOSEST DATA COSET CAMERA SERVER. OBTAIN PROGRAMMING SERVICES FROM THE DISTRICT'S PREFERRED ACCESS CONTROL VENDOR A+ TECHNOLOGY & SECURITY SOLUTIONS TO MAKE FINAL CONNECTIONS AND ADD AND PROGRAM THE CAMERA INTO THE EXISTING VIDEO SYSTEM.
4. PROVIDE WIRING FROM ACCESS CONTROL PANEL TO DOOR CONTACTS. REQUEST TO EXIT, ELECTRIC STRIKE, AND CARD READER. OBTAIN THE SERVICES OF THE DISTRICT'S PREFERRED ACCESS CONTROL VENDOR A+ TECHNOLOGY & SECURITY SOLUTIONS TO PROGRAM THE SYSTEM FOR THE NEW OPENING. PROVIDE PRODUCTS FROM GALLAGHER: DOOR CONTROLLER 6000, LOCK CONTROLLER C8, BUS MODULE 4BUS, CABINET & 6A POWER SUPPLY UNIT, AND T15 CARD READER. PROVIDE EDWARDS MAGNETIC DOOR CONTACTS. PROVIDE 184 AND 226 STRANDED SHIELDED CABLES BACK TO CLOSEST DATA ROOM.
5. PROVIDE VIDEO INTERCOM SYSTEM, DOOR REMOTE RELEASE, AND PANIC BUTTON WIRED TO DIRECT DIAL THE LOCAL POLICE DEPARTMENT. VIDEO INTERCOM AND REMOTE RELEASE CAN BE COMBINED INTO A SINGLE SYSTEM. (AXIS A8004-VE).
6. PROVIDE "CONTACT" STS-K071 SPEAKER AND MICROPHONE POD SYSTEM FOR SECURITY VESTIBULE. INSTALL PER MANUFACTURER'S INSTRUCTIONS. LOCATE AMPLIFIER UNDER SECURE SIDE DESK AND PLUG INTO EXISTING RECEPTACLE. PROVIDE ADDITIONAL "GROMMET" FOR PASS THROUGH WIRING. CONNECT MIC AND SPEAKER USING FACTORY SUPPLIED WIRING ON SECURE SIDE TO AMP. LOCATE MIC AND SPEAKER ON VISITOR SIDE AND RUN WIRING THROUGH PASS THROUGH WINDOW LOCATING MIC ONE SIDE OF COUNTER AND SPEAKER ON THE OTHER SIDE OF THE COUNTER. NEATLY TRAIN AND LACE CABLING ALONG CORNERS.
7. REMOVE EXISTING LIGHT FIXTURE. PROVIDE NEW LIGHT FIXTURE. AND FLUSH MOUNTED JUNCTION BOX TO SUPPORT FIXTURE. CONSTRUCTION CONTRACT WILL REMOVE 2X2 PORTION OF THE CEILING TO ALLOW INSTALLATION OF JUNCTION BOX. PROVIDE WIRING FROM PANEL STAGE. FISH MC CABLE ABOVE CEILING FROM FIXTURE TO FIXTURE. PROVIDE UN-SWITCHED HOT AS FIXTURES CONTAIN AN INTEGRAL BATTERY PACK.
8. PROVIDE EMERGENCY LIGHTING UNIT "ELU" AND CONNECT TO EXISTING CIRCUIT THAT FEEDS LIGHTING AHEAD OF SWITCHING.
9. CONNECT TO EXISTING RECEPTACLE CIRCUIT THAT FEEDS AREA.
10. REMOVE EXISTING REMOTE BALLASTS, CONTACTORS, AND ABANDONED WIRING RACEWAYS/STROUGHS ABOVE PANELBOARD.
11. REPLACE EXISTING EXIT AND EXIT/ELU COMBINATION UNITS. REUSE EXISTING CIRCUIT. CONNECT TO CIRCUIT SERVING LIGHTING IN THAT AREA.
12. PROVIDE CONTROL MODULE FOR FIRE SMOKE DAMPERS. CONNECT 120 VOLT CIRCUIT TO FIRE SMOKE DAMPERS VIA CONTROL MODULE. UPON ALARM OF ADJACENT SMOKE DETECTOR, FIRE SMOKE DAMPERS SHALL CLOSE. OPERATION IS HELD OPEN WITH POWER. CLOSE ON LOSS OF POWER (FAIL SAFE).
13. PROVIDE AXIS I8116-E NETWORK VIDEO INTERCOM WITH DOOR RELEASE. PROVIDE CAT CABLE USING POE INJECTOR TO CAMERA.

LIGHTING CONTROL NARRATIVE:

- WHERE SHOWN WITH WALL MOUNTED VACANCY SENSORS, LIGHTS ARE MANUAL ON, AUTOMATIC OFF AFTER 20 MINUTES WHEN NO MOTION IS DETECTED.
- FOR BATHROOMS WITH CEILING MOUNTED OCCUPANCY SENSORS, LIGHTS ARE AUTOMATIC ON TO 100%, AUTOMATIC OFF AFTER 20 MINUTES, WITH MANUAL WALL CONTROL.
- FOR ENCLOSED OFFICES WITH CEILING MOUNTED OCCUPANCY SENSORS, LIGHTS ARE MANUAL ON, AUTOMATIC OFF AFTER 20 MINUTES WHEN NO MOTION IS DETECTED.
- FOR AREAS WITH CEILING MOUNTED OCCUPANCY SENSORS, LIGHTS ARE MANUAL ON VIA LOW VOLTAGE SWITCHES, AUTOMATIC OFF AFTER 20 MINUTES WHEN NO MOTION IS DETECTED.

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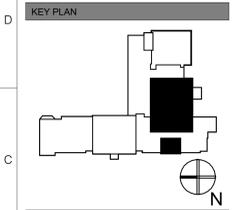
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NUFSD BOND PROJECT PHASE 5 - HIGHVIEW

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 - SED#50-01-08-03-0-001-002 (Maintenance)
 - SED#50-01-08-03-0-012-004 (OEC)
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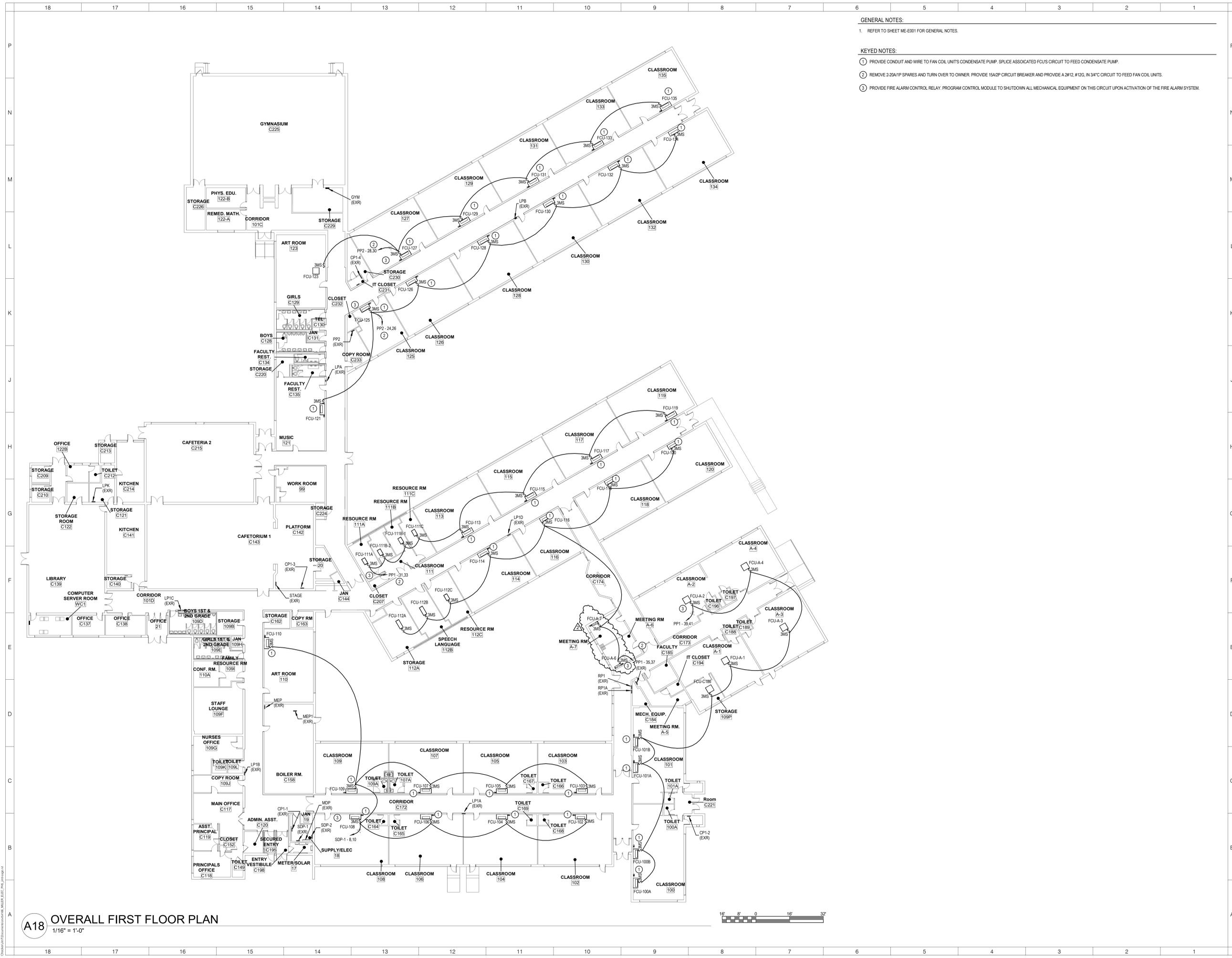
No.	Description	Date
1	Addendum #2	01/30/25

ISSUED: BID SET
DATE: 06/21/2024
SCALE: AS NOTED
SHEET NAME: ENLARGED ELECTRICAL PLANS

SHEET NUMBER:
HE-E401



ISSUE FOR BID SET



- GENERAL NOTES:**
- REFER TO SHEET ME-E001 FOR GENERAL NOTES.
- KEYED NOTES:**
- PROVIDE CONDUIT AND WIRE TO FAN COIL UNITS CONDENSATE PUMP. SPLICE ASSOCIATED FCUS CIRCUIT TO FEED CONDENSATE PUMP.
 - REMOVE 2-20A/1P SPARES AND TURN OVER TO OWNER. PROVIDE 15A/2P CIRCUIT BREAKER AND PROVIDE A 2#12, #12G, IN 3/4" CIRCUIT TO FEED FAN COIL UNITS.
 - PROVIDE FIRE ALARM CONTROL RELAY. PROGRAM CONTROL MODULE TO SHUTDOWN ALL MECHANICAL EQUIPMENT ON THIS CIRCUIT UPON ACTIVATION OF THE FIRE ALARM SYSTEM.

A18 OVERALL FIRST FLOOR PLAN
1/16" = 1'-0"



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NUFSD BOND PROJECTS PH 5 - MILLER ES

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 - SED#50-01-08-03-7-012-004 (OEC)
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KEY PLAN

REVISIONS

No.	Description	Date
2	Addendum #2	01/30/25

ISSUED: BID SET

DATE: 12/09/2024

SCALE: AS NOTED

SHEET NAME: OVERALL ELECTRICAL PLAN

SHEET NUMBER:

ME-E101

ISSUE FOR BID SET

0SECTION 00 30 01 - GC BID FORM

CONTRACT 1 – GENERAL CONSTRUCTION PROPOSAL (GC-01):

CLOSING: (signature) _____

DATE: _____

BY: _____

TITLE: _____

FIRM: _____

ADDRESS: _____

TELEPHONE NUMBER: _____

FAX NUMBER: _____

CONTACT PERSON: _____

E-MAIL: _____

BID TO (Owner): Attention: Purchasing Agent
Nanuet Union Free School District
101 Church Street
Nanuet, New York 10954

SED Project Control No.	Highview Elementary School	SED#50-01-08-03-0-002-020
	Barr Middle School	SED#50-01-08-03-0-004-022
	Outdoor Education Center	SED#50-01-08-03-7-012-004
	Maintenance Building Renovations	SED#50-01-08-03-7-007-002

1. **Representations:** By making this Bid, the Bidder represents that:

The Bidder (identified above) hereby certifies that they have examined and fully understands the requirements and intent of the Bidding and Contract Documents, including Drawings, Project Manuals, and Addenda; and proposes to provide all labor, material, and equipment necessary to complete the Work on, or before, the dates specified in the Agreement.

To The Board of Education,

The undersigned hereby proposes to furnish all labor, materials, devices, appliances, supplies, equipment, services and other facilities necessary to complete all of the work of the above referenced Contract for the Nanuet Union Free School District, Nanuet, New York, as required by, and in accordance with, the provisions of the Instructions to Bidders, the Supplementary Instructions to Bidders, the Conditions of the Contract, the Drawings and Specifications, all as prepared by KSQ Design designated as Nanuet Union Free School District Phase 5 Projects, dated **January 14, 2025** and that, if this Proposal is accepted, the Undersigned agrees to enter into an Agreement with the owner to perform this work for the lump sum of:

Total Base Bid Lump Sum (All three locations): _____ (\$ _____)

Highview Elementary School: _____ (\$ _____)

Outdoor Education Center: _____ (\$ _____)

Maintenance Building Renovations: _____ (\$ _____)
(Words) (Figures)

ALLOWANCES:

The undersigned Contractor has included the Allowance(s) as specified in Section 01 21 00 in their Base Bid.

UNIT PRICE:

- A. **Unit Price GC-#1:** \$ _____ Dollars \$ No Cents
- B. **Unit Price GC-#2:** \$ _____ Dollars \$ No Cents
- C. **Unit Price GC-#3:** \$ _____ Dollars \$ No Cents
- D. **Unit Price GC-#4:** \$ _____ Dollars \$ No Cents

ALTERNATES:

Add Alternate GC-01 Alt #1: \$ _____ Dollar \$ No Cents

Add Alternate GC-01 Alt #2: \$ _____ Dollar \$ No Cents

ADDENDA:

The undersigned acknowledges the receipt of the following addenda:

Addendum Number	Date	Addendum Number	Date
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

The Undersigned understands that the Owner reserves the right to accept or reject any or all proposals, but that if notice of the acceptance of the above Proposal is sent via United States Postal Service or any other overnight carrier, with signature required, to the Undersigned within sixty (60) days after the formal

opening of Bids or anytime thereafter before this Proposal is withdrawn, the Undersigned will enter into, execute, and deliver a Contract within five (5) days after the date of said notification.

1. Time of Commencement and Completion:

The Undersigned agrees in the Base Bid to complete the work as per the Milestone Schedule provided in the Specifications.

2. Rejection of Bids:

The Bidder acknowledges that the Owner reserves the right to waive any informality in, or to reject any or all Bids.

3. Attachments:

Obtain and attach the following documents to each individual Bid.

- a. Corporate Resolutions
- b. Non-Collusive Bid Certification
- c. Iran Divestment Act Affidavit
- d. Bid Security
- e. Subcontractor List
- f. Substitution List
- g. NYS DOL Certificate of Registration (See Notice to Bidders for more information)

4. Work Cost Breakdown:

This form shall be filled out in its entirety and submitted by the Contractor. The grand total must equal the TOTAL BASE BID under Section I (A) "THE BID". UNIT PRICES are required for the items listed in the Unit Prices section of the work cost breakdown. Unit prices will be provided for use if the required quantities are more or less than the quantities indicated in the plans and specifications. Failure to complete the work cost breakdown may result in the disqualification of the bid. As itemized in the "Instructions to Bidders" for a complete Bid Form include the following which must be filled out completely, failure to comply with any listed below bid will be a rejected bid:

- a. Bid Form, all costs must be shown in each CSI section and totaled, failure to breakdown these costs will be subject to disqualification of bid.
- b. Unit costs

Highview Elementary School

Contract Number: Contract No. 01 – General Construction (GC-01)

Contract Titles: As noted in the Notice to Bidders 00 03 00

Date:

* Refer to specification Section 012900 Payment Procedures for additional information

Description	QTY	Unit	Total
General Requirements (Submittals, Punchlist, etc.)			
012100 Allowances - Unforeseen Conditions	1	NA	\$140,000
024100 Selective Demolition (Labor)			
024100 Selective Demolition (Material)			
028200 Asbestos Abatement			
033001 Cast in place concrete (Labor)			
033001 Cast in place concrete (Material)			
033400 Self-Leveling Toppings (Labor)			
033400 Self-Leveling Toppings (Material)			
040120 Maintenance and restoration of brick masonry (Labor)			
040120 Maintenance and restoration of brick masonry (Material)			
040305.13 Restoration mortars (Labor)			
040305.13 Restoration mortars (Material)			
040305.16 Restoration masonry repointing (Labor)			
040305.16 Restoration masonry repointing (Material)			
042200 Concrete Unit Masonry (Labor)			
042200 Concrete Unit Masonry (Material)			
051200 Structural Steel (Labor)			
051200 Structural Steel (Material)			
053100 Steel Decking (Labor)			
053100 Steel Decking (Material)			
054000 Cold Formed Metal Framing (Labor)			
054000 Cold Formed Metal Framing (Material)			

055000 Metal Fabrications (Labor)			
055000 Metal Fabrications (Material)			
055213 Pipe and tube railings (Labor)			
055213 Pipe and tube railings (Material)			
061000 Rough Carpentry (Labor)			
061000 Rough Carpentry (Material)			
061600 Sheathing (Labor)			
061600 Sheathing (Material)			
064023 Interior Architectural Woodwork (Labor)			
064023 Interior Architectural Woodwork (Material)			
071326 Self-Adhering sheet waterproofing (Labor)			
071326 Self-Adhering sheet waterproofing (Material)			
072100 Thermal Insulation (Labor)			
072100 Thermal Insulation (Material)			
072713 Fire-resistant self-adhering membrane air barrier (Labor)			
072713 Fire-resistant self-adhering membrane air barrier (material)			
074213 Composite Metal Panels (Labor)			
074213 Composite Metal Panels (Material)			
076200 Sheet metal flashing and trim (Labor)			
076200 Sheet metal flashing and trim (Material)			
078413 Penetration Firestopping (Labor)			
078413 Penetration Firestopping (Material)			
078446 Fire-resistive Joint Systems (Labor)			
078446 Fire-resistive Joint Systems (Material)			
079200 Joint Sealant (Labor)			
079200 Joint Sealant (Material)			
079500 Expansion Control (Labor)			
079500 Expansion Control (Material)			
081113 Hollow Metal Doors and Frames (Labor)			

081113 Hollow Metal Doors and Frames (Material)			
081116 Fire-rated aluminum full vision doors and frames (Labor)			
081116 Fire-rated aluminum full vision doors and frames (Material)			
081416 flush wood doors (Labor)			
081416 flush wood doors (Material)			
083113 Access Doors and Frames (Labor)			
083113 Access Doors and Frames (Material)			
084113 Aluminum Framed Entrances and Storefronts (Labor)			
084113 Aluminum Framed Entrances and Storefronts (Material)			
085667 Bullet-Resistant Transaction Window (Labor)			
085667 Bullet-Resistant Transaction Window (Material)			
087100 Door Hardware (Labor)			
087100 Door Hardware (Material)			
088000 Glazing (Labor)			
088000 Glazing (Material)			
088300 Mirrors (Labor)			
088300 Mirrors (Material)			
088717 safety and security glazing films (Labor)			
088717 safety and security glazing films (Material)			
092216 non-structural metal framing Labor)			
092216 non-structural metal framing (Material)			
092900 gypsum board (Labor)			
092900 gypsum board (Material)			
093013 Ceramic Tile (Labor)			
093013 Ceramic Tile (Material)			
095123 acoustical ceiling tile (Labor)			
095123 acoustical ceiling tile (Material)			
096513 resilient base and accessories (Labor)			
096513 resilient base and accessories (Material)			

096519 resilient flooring (Labor)			
096519 resilient flooring (Material)			
096723 Resinous Flooring (Labor)			
096723 Resinous Flooring (Material)			
097220 Wall coverings (Labor)			
097220 Wall coverings (Material)			
099100 painting (Labor)			
099100 painting (Material)			
101400 Interior Signage (Labor)			
101400 Interior Signage (Material)			
102100 Toilet Partitions (Labor)			
102100 Toilet Partitions (Material)			
102800 toilet and bath accessories (Labor)			
102800 toilet and bath accessories (Material)			
104413 Fire Extinguisher Cabinets (Labor)			
104413 Fire Extinguisher Cabinets (Material)			
104416 Fire Extinguishers (Labor)			
104416 Fire Extinguishers (Material)			
111600 Bullet resistant fiberglass panels (Labor)			
111600 Bullet resistant fiberglass panels (Material)			
123661 Simulated stone countertops (Labor)			
123661 Simulated stone countertops (Material)			
124813 Entrance mats and frames (Labor)			
124813 Entrance mats and frames (Material)			
144200 wheelchair lift (Labor)			
144200 wheelchair lift (Material)			

Maintenance Building

Contract Number: Contract No. 01 – General Construction (GC-01)

Contract Titles: As noted in the Notice to Bidders 00 03 00

Date:

* Refer to specification Section 012900 Payment Procedures for additional information

Description	QTY	Unit	Total
General Requirements (Submittals, Punchlist, etc.)			
012100 Allowances - Unforeseen Conditions	1	NA	\$8,000
024100 Selective Demolition (Labor)			
024100 Selective Demolition (Material)			
051200 Structural Steel (Labor)			
051200 Structural Steel (Material)			
053100 Steel Decking (Labor)			
053100 Steel Decking (Material)			
054000 Cold Formed Metal Framing (Labor)			
054000 Cold Formed Metal Framing (Material)			
055000 Metal Fabrications (Labor)			
055000 Metal Fabrications (Material)			
061000 Rough Carpentry (Labor)			
061000 Rough Carpentry (Material)			
061600 Sheathing (Labor)			
061600 Sheathing (Material)			
064023 Interior Architectural Woodwork (Labor)			
064023 Interior Architectural Woodwork (Material)			
071326 Self-Adhering sheet waterproofing (Labor)			
071326 Self-Adhering sheet waterproofing (Material)			
072100 Thermal Insulation (Labor)			
072100 Thermal Insulation (Material)			
072713 Fire-resistant self-adhering membrane air barrier (Labor)			
072713 Fire-resistant self-adhering membrane air barrier (material)			
074213 Composite Metal Panels (Labor)			

074213 Composite Metal Panels (Material)			
076200 Sheet metal flashing and trim (Labor)			
076200 Sheet metal flashing and trim (Material)			
078413 Penetration Firestopping (Labor)			
078413 Penetration Firestopping (Material)			
078446 Fire-resistive Joint Systems (Labor)			
078446 Fire-resistive Joint Systems (Material)			
079200 Joint Sealant (Labor)			
079200 Joint Sealant (Material)			
079500 Expansion Control (Labor)			
079500 Expansion Control (Material)			
081416 flush wood doors (Labor)			
081416 flush wood doors (Material)			
087100 Door Hardware (Labor)			
087100 Door Hardware (Material)			
088000 Glazing (Labor)			
088000 Glazing (Material)			
092216 Non-structural metal framing (Labor)			
092216 Non-structural metal framing (Material)			
095123 acoustical ceiling tile (Labor)			
095123 acoustical ceiling tile (Material)			
096513 resilient base and accessories (Labor)			
096513 resilient base and accessories (Material)			
096519 resilient flooring (Labor)			
096519 resilient flooring (Material)			
099100 painting (Labor)			
099100 painting (Material)			

Outdoor Education Center

Contract Number: Contract No. 01 – General Construction (GC-01)

Contract Titles: As noted in the Notice to Bidders 00 03 00

Date:

* Refer to specification Section 012900 Payment Procedures for additional information

Description	QTY	Unit	Total
General Requirements (Submittals, Punchlist, etc.)			
012100 Allowances - Unforeseen Conditions	1	NA	\$15,000
024100 Selective Demolition (Labor)			
024100 Selective Demolition (Material)			
051200 Structural Steel (Labor)			
051200 Structural Steel (Material)			
053100 Steel Decking (Labor)			
053100 Steel Decking (Material)			
054000 Cold Formed Metal Framing (Labor)			
054000 Cold Formed Metal Framing (Material)			
055000 Metal Fabrications (Labor)			
055000 Metal Fabrications (Material)			
055213 Pipe and tube railings (Labor)			
055213 Pipe and tube railings (Material)			
061000 Rough Carpentry (Labor)			
061000 Rough Carpentry (Material)			
061600 Sheathing (Labor)			
061600 Sheathing (Material)			
064023 Interior Architectural Woodwork (Labor)			
064023 Interior Architectural Woodwork (Material)			
071326 Self-Adhering sheet waterproofing (Labor)			
071326 Self-Adhering sheet waterproofing (Material)			
072100 Thermal Insulation (Labor)			
072100 Thermal Insulation (Material)			

072713 Fire-resistant self-adhering membrane air barriers (Labor)			
072713 Fire-resistant self-adhering membrane air barriers (material)			
076200 Sheet metal flashing and trim (Labor)			
076200 Sheet metal flashing and trim (Material)			
078413 Penetration Firestopping (Labor)			
078413 Penetration Firestopping (Material)			
078446 Fire-resistive Joint Systems (Labor)			
078446 Fire-resistive Joint Systems (Material)			
079200 Joint Sealant (Labor)			
079200 Joint Sealant (Material)			
079500 Expansion Control (Labor)			
079500 Expansion Control (Material)			
081113 Hollow Metal Doors and Frames (Labor)			
081113 Hollow Metal Doors and Frames (Material)			
087100 Door Hardware (Labor)			
087100 Door Hardware (Material)			
095123 acoustical ceiling tile (Labor)			
095123 acoustical ceiling tile (Material)			
096513 resilient base and accessories (Labor)			
096513 resilient base and accessories (Material)			
099100 painting (Labor)			
099100 painting (Material)			

Submit Bid Form in duplicate.

END OF SECTION 00 30 01

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SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the Base Bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A Schedule of Alternates is included at the end of this Section identifying each Alternate by number and describes basic changes to be incorporated into the Work only when that Alternate is made part of the Work by specific provision in the Owner/Contractor Agreement. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES:

A. CONTRACT GC-01-GENERAL CONSTRUCTION WORK:

1. GC-01 ALT #1: The contractor shall state the total amount to be added to the base bid for the removal of existing canopies and installation of new canopies at Barr Middle School as called out on Architectural drawings BM-AD000, BM-AD101, BM-A101, BM-A111, BM-A121, BM-A201, and BM-A301
GC-01 ALT #2: The contractor shall state the total amount to be added to the base bid for the repair of columns, the addition of bollards, and reroofing at Barr Middle School as called out on Architectural drawings BM-A101.2 and BM-A121.2.

END OF SECTION 012300

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SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL

1.01 SUMMARY

A. Section includes:

1. Mechanical and electrified door hardware
2. Electronic access control system components
3. Field verification, preparation and modification of existing doors and frames to receive new door hardware.

B. Section excludes:

1. Windows
2. Cabinets (casework), including locks in cabinets
3. Signage
4. Toilet accessories
5. Overhead doors

C. Related Sections:

1. Division 01 Section "Alternates" for alternates affecting this section.
2. Division 06 Section "Rough Carpentry"
3. Division 06 Section "Finish Carpentry"
4. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
5. Division 08 Sections:
 - a. "Metal Doors and Frames"
 - b. "Flush Wood Doors"
 - c. "Stile and Rail Wood Doors"
 - d. "Interior Aluminum Doors and Frames"
 - e. "Aluminum-Framed Entrances and Storefronts"
 - f. "Stainless Steel Doors and Frames"
 - g. "Special Function Doors"
 - h. "Entrances"
6. Division 09 sections for touchup, finishing or refinishing of existing openings modified by this section.
7. Division 26 "Electrical" sections for connections to electrical power system and for low-voltage wiring.
8. Division 28 "Electronic Safety and Security" sections for coordination with other components of electronic access control system and fire alarm system.

1.02 REFERENCES

A. UL LLC

1. UL 10B - Fire Test of Door Assemblies
 2. UL 10C - Positive Pressure Test of Fire Door Assemblies
 3. UL 1784 - Air Leakage Tests of Door Assemblies
 4. UL 305 - Panic Hardware
- B. DHI - Door and Hardware Institute
1. Sequence and Format for the Hardware Schedule
 2. Recommended Locations for Builders Hardware
 3. Keying Systems and Nomenclature
 4. Installation Guide for Doors and Hardware
- C. NFPA – National Fire Protection Association
1. NFPA 70 – National Electric Code
 2. NFPA 80 – 2016 Edition – Standard for Fire Doors and Other Opening Protectives
 3. NFPA 101 – Life Safety Code
 4. NFPA 105 – Smoke and Draft Control Door Assemblies
 5. NFPA 252 – Fire Tests of Door Assemblies
- D. ANSI - American National Standards Institute
1. ANSI A117.1 – 2017 Edition – Accessible and Usable Buildings and Facilities
 2. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties
 3. ANSI/BHMA A156.28 - Recommended Practices for Keying Systems
 4. ANSI/WDMA I.S. 1A - Interior Architectural Wood Flush Doors
 5. ANSI/SDI A250.8 - Standard Steel Doors and Frames

1.03 SUBMITTALS

A. General:

1. Submit in accordance with Conditions of Contract and Division 01 Submittal Procedures.
2. Prior to forwarding submittal:
 - a. Comply with procedures for verifying existing door and frame compatibility for new hardware, as specified in PART 3, "EXAMINATION" article, herein.
 - b. Review drawings and Sections from related trades to verify compatibility with specified hardware.
 - c. Highlight, encircle, or otherwise specifically identify on submittals: deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.

B. Action Submittals:

1. Product Data: Submit technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
2. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of electrified door hardware, indicating:

- a. Wiring Diagrams: For power, signal, and control wiring and including:
 - 1) Details of interface of electrified door hardware and building safety and security systems.
 - 2) Schematic diagram of systems that interface with electrified door hardware.
 - 3) Point-to-point wiring.
 - 4) Risers.
3. Samples for Verification: If requested by Architect, submit production sample of requested door hardware unit in finish indicated and tagged with full description for coordination with schedule.
 - a. Samples will be returned to supplier. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.
4. Door Hardware Schedule:
 - a. Submit concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work critical in Project construction schedule.
 - b. Submit under direct supervision of a Door Hardware Institute (DHI) certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule published by DHI.
 - c. Indicate complete designations of each item required for each opening, include:
 - 1) Door Index: door number, heading number, and Architect's hardware set number.
 - 2) Quantity, type, style, function, size, and finish of each hardware item.
 - 3) Name and manufacturer of each item.
 - 4) Fastenings and other pertinent information.
 - 5) Location of each hardware set cross-referenced to indications on Drawings.
 - 6) Explanation of all abbreviations, symbols, and codes contained in schedule.
 - 7) Mounting locations for hardware.
 - 8) Door and frame sizes and materials.
 - 9) Degree of door swing and handing.
 - 10) Operational Description of openings with electrified hardware covering egress, ingress (access), and fire/smoke alarm connections.
5. Key Schedule:
 - a. After Keying Conference, provide keying schedule that includes levels of keying, explanations of key system's function, key symbols used, and door numbers controlled.
 - b. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
 - c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.
 - d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.

- e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion. Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.
- f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.

C. Informational Submittals:

- 1. Provide Qualification Data for Supplier, Installer and Architectural Hardware Consultant.
- 2. Provide Product Data:
 - a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
 - b. Include warranties for specified door hardware.

D. Closeout Submittals:

- 1. Operations and Maintenance Data: Provide in accordance with Division 01 and include:
 - a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
 - b. Catalog pages for each product.
 - c. Final approved hardware schedule edited to reflect conditions as installed.
 - d. Final keying schedule
 - e. Copy of warranties including appropriate reference numbers for manufacturers to identify project.
 - f. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.

E. Inspection and Testing:

- 1. Submit written reports to the Owner and Authority Having Jurisdiction (AHJ) of the results of functional testing and inspection for:
 - a. fire door assemblies, in compliance with NFPA 80.
 - b. required egress door assemblies, in compliance with NFPA 101.

1.04 QUALITY ASSURANCE

A. Qualifications and Responsibilities:

- 1. Supplier: Recognized architectural hardware supplier with a minimum of 5 years documented experience supplying both mechanical and electromechanical door hardware similar in quantity, type, and quality to that indicated for this Project. Supplier to be recognized as a factory direct distributor by the manufacturer of the primary materials with a warehousing facility in the Project's vicinity. Supplier to have on staff, a certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.
- 2. Installer: Qualified tradesperson skilled in the application of commercial grade hardware with experience installing door hardware similar in quantity, type, and quality as indicated for this Project.

3. Architectural Hardware Consultant: Person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and meets these requirements:
 - a. For door hardware: DHI certified AHC or DHC.
 - b. Can provide installation and technical data to Architect and other related subcontractors.
 - c. Can inspect and verify components are in working order upon completion of installation.
 - d. Capable of producing wiring diagram and coordinating installation of electrified hardware with Architect and electrical engineers.
 4. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.
- B. Certifications:
1. Fire-Rated Door Openings:
 - a. Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction.
 - b. Provide only items of door hardware that are listed products tested by UL LLC, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of fire-rated door and door frame labels.
 2. Smoke and Draft Control Door Assemblies:
 - a. Provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105
 - b. Comply with the maximum air leakage of 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at tested pressure differential of 0.3-inch wg (75 Pa) of water.
 3. Electrified Door Hardware
 - a. Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.
 4. Accessibility Requirements:
 - a. Comply with governing accessibility regulations cited in "REFERENCES" article 087100, 1.02.D3 herein for door hardware on doors in an accessible route. This project must comply with all Federal Americans with Disability Act regulations and all Local Accessibility Regulations.
- C. Pre-Installation Meetings
1. Keying Conference
 - a. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:

- 1) Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
 - 2) Preliminary key system schematic diagram.
 - 3) Requirements for key control system.
 - 4) Requirements for access control.
 - 5) Address for delivery of keys.
2. Pre-installation Conference
- a. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - b. Inspect and discuss preparatory work performed by other trades.
 - c. Inspect and discuss electrical roughing-in for electrified door hardware.
 - d. Review sequence of operation for each type of electrified door hardware.
 - e. Review required testing, inspecting, and certifying procedures.
 - f. Review questions or concerns related to proper installation and adjustment of door hardware.
3. Electrified Hardware Coordination Conference:
- a. Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site. Promptly replace products damaged during shipping.
- B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package. Deliver each article of hardware in manufacturer's original packaging.
- C. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.
- D. Provide secure lock-up for door hardware delivered to Project. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.
- E. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.
- F. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.

1.06 COORDINATION

- A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete.
- B. Installation Templates: Distribute for doors, frames, and other work specified to be factory or shop prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.

- D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.
- E. Existing Openings: Where existing doors, frames and/or hardware are to remain, field verify existing functions, conditions and preparations and coordinate to suit opening conditions and to provide proper door operation.

1.07 WARRANTY

- A. Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within published warranty period.
 - 1. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.
 - 2. Warranty Period: Beginning from date of Substantial Completion, for durations indicated in manufacturer's published listings.
 - a. Mechanical Warranty
 - 1) Locks
 - a) Schlage ND Series: 10 years
 - 2) Exit Devices
 - a) Von Duprin: 3 years
 - 3) Closers
 - a) LCN 4000 Series: 30 years
 - b. Electrical Warranty
 - 1) Locks
 - a) Schlage: 1 year
 - 2) Exit Devices
 - a) Von Duprin: 1 year

1.08 MAINTENANCE

- A. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.
- B. Turn over unused materials to Owner for maintenance purposes.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. The Owner requires use of certain products for their unique characteristics and project suitability to ensure continuity of existing and future performance and maintenance standards. After investigating available product offerings, the Awarding Authority has elected to prepare proprietary specifications. These products are specified with the notation: "No Substitute."
 - 1. Where "No Substitute" is noted, submittals and substitution requests for other products will not be considered.

- B. Approval of manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category shall be in accordance with QUALITY ASSURANCE article, herein.
- C. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.
- D. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

2.02 MATERIALS

A. Fabrication

- 1. Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. provide screws according to manufacturer's recognized installation standards for application intended.
- 2. Finish exposed screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish.
- 3. Provide concealed fasteners wherever possible for hardware units exposed when door is closed. Coordinate with "Metal Doors and Frames", "Flush Wood Doors", "Stile and Rail Wood Doors" to ensure proper reinforcements. Advise the Architect where visible fasteners, such as thru bolts, are required.

B. Modification and Preparation of Existing Doors: Where existing door hardware is indicated to be removed and reinstalled.

- 1. Provide necessary fillers, Dutchmen, reinforcements, and fasteners, compatible with existing materials, as required for mounting new opening hardware and to cover existing door and frame preparations.
- 2. Use materials which match materials of adjacent modified areas.
- 3. When modifying existing fire-rated openings, provide materials permitted by NFPA 80 as required to maintain fire-rating.

C. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.

- 1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.

D. Cable and Connectors:

- 1. Where scheduled in the hardware sets, provide each item of electrified hardware and wire harnesses with number and gage of wires enough to accommodate electric function of specified hardware.
- 2. Provide Molex connectors that plug directly into connectors from harnesses, electric locking and power transfer devices.
- 3. Provide through-door wire harness for each electrified locking device installed in a door and wire harness for each electrified hinge, electrified continuous hinge, electrified pivot, and electric power transfer for connection to power supplies.

2.03 HINGES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
 - a. Ives 5BB series
2. Acceptable Manufacturers and Products:
 - a. Hager BB1191/1279 series
 - b. Stanley FBB series

B. Requirements:

1. Provide hinges conforming to ANSI/BHMA A156.1.
2. Provide five knuckle, ball bearing hinges.
3. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide:
 - a. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches (114 mm) high
 - b. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high
4. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide:
 - a. Exterior: Heavy weight, bronze/stainless steel, 5 inches (127 mm) high
 - b. Interior: Heavy weight, steel, 5 inches (127 mm) high
5. 2 inches or thicker doors:
 - a. Exterior: Heavy weight, bronze or stainless steel, 5 inches (127 mm) high
 - b. Interior: Heavy weight, steel, 5 inches (127 mm) high
6. Adjust hinge width for door, frame, and wall conditions to allow proper degree of opening.
7. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
8. Where new hinges are specified for existing doors or existing frames, provide new hinges of identical size to hinge preparation present in existing door or existing frame.
9. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:
 - a. Steel Hinges: Steel pins
 - b. Non-Ferrous Hinges: Stainless steel pins
 - c. Out-Swinging Exterior Doors: Non-removable pins
 - d. Out-Swinging Interior Lockable Doors: Non-removable pins
 - e. Interior Non-lockable Doors: Non-rising pins
10. Provide hinges with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component. Provide mortar guard for each electrified hinge specified.

2.04 CONTINUOUS HINGES

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Ives
2. Acceptable Manufacturers:
 - a. Select
 - b. Roton

B. Requirements:

1. Provide aluminum geared continuous hinges conforming to ANSI/BHMA A156.26, Grade 1.
2. Provide aluminum geared continuous hinges, where specified in the hardware sets, fabricated from 6063-T6 aluminum.
3. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.
4. Provide hinges capable of supporting door weights up to 450 pounds, and successfully tested for 1,500,000 cycles.
5. On fire-rated doors, provide aluminum geared continuous hinges classified for use on rated doors by testing agency acceptable to authority having jurisdiction.
6. Provide aluminum geared continuous hinges with electrified option scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
7. Provide hinges 1 inch (25 mm) shorter in length than nominal height of door, unless otherwise noted or door details require shorter length and with symmetrical hole pattern.

2.05 CYLINDRICAL LOCKS – GRADE 1

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
 - a. Schlage ND series

B. Requirements:

1. Provide cylindrical locks conforming to ANSI/BHMA A156.2 Series 4000, Grade 1, and UL Listed for 3-hour fire doors.
2. Cylinders: Refer to "KEYING" article, herein.
3. Provide locks with standard 2-3/4 inches (70 mm) backset, unless noted otherwise, with 1/2-inch latch throw. Provide proper latch throw for UL listing at pairs.
4. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
5. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
6. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
7. Provide electrified options as scheduled in the hardware sets.
8. Lever Trim: Solid cast levers without plastic inserts and wrought roses on both sides.

- a. Lever Design: RHO

2.06 EXIT DEVICES

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:

- a. Von Duprin 98/35A series

2. Acceptable Manufacturers and Products:

- a. Precision APEX 2000 series
- b. Falcon 24/25 series

B. Requirements:

1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware.
2. Cylinders: Refer to "KEYING" article, herein.
3. Provide smooth touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
4. Touchpad must extend a minimum of one half of door width. No plastic inserts are allowed in touchpads.
5. Provide exit devices with deadlatching feature for security and for future addition of alarm kits and/or other electrified requirements.
6. Provide exit devices with weather resistant components that can withstand harsh conditions of various climates and corrosive cleaners used in outdoor pool environments.
7. Provide flush end caps for exit devices.
8. Provide exit devices with manufacturer's approved strikes.
9. Provide exit devices cut to door width and height. Install exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
10. Mount mechanism case flush on face of doors or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
11. Provide cylinder or hex-key dogging as specified at non fire-rated openings.
12. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion, provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
13. Provide factory drilled weep holes for exit devices used in full exterior application, highly corrosive areas, and where noted in hardware sets.
14. Provide electrified options as scheduled.
15. Top latch mounting: double- or single-tab mount for steel doors, face mount for aluminum doors eliminating requirement of tabs, and double tab mount for wood doors.
16. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.

2.07 CYLINDERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
 - a. Schlage Everest 29 Primus XP
 2. Acceptable Manufacturers and Products:
 - a. No Substitute
- B. Requirements:
1. Provide cylinders/cores, compliant with ANSI/BHMA A156.5; latest revision; cylinder face finished to match lockset, manufacturer's series as indicated. Refer to "KEYING" article, herein.
 2. Provide cylinders in the below-listed configuration(s), distributed throughout the Project as indicated.
 - a. High Security: dual-locking cylinder with permanent core requiring restricted, patented keyway. Dual-locking mechanism with interlocking finger pin(s) to check for patented features on keys.
 3. Patent Protection: Cylinders/cores requiring use of restricted, patented keys, patent protected.
 4. Nickel silver bottom pins.

2.08 KEYING

- A. Scheduled System:
1. Existing factory registered system:
 - a. Provide cylinders/cores keyed into Owner's existing factory registered keying system. Comply with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.
- B. Requirements:
1. Construction Keying:
 - a. Replaceable Construction Cores.
 - 1) Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.
 - a) 3 construction control keys
 - b) 12 construction change (day) keys.
 - 2) Owner or Owner's Representative will replace temporary construction cores with permanent cores.
 2. Permanent Keying:
 - a. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.
 - 1) Master Keying system as directed by the Owner.

- b. Forward biting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements will be cause for replacement of cylinders/cores involved at no additional cost to Owner.
- c. Provide keys with the following features:
 - 1) Material: Nickel silver; minimum thickness of .107-inch (2.3mm)
 - 2) Patent Protection: Keys and blanks protected by one or more utility patent(s).
 - 3) Geographically Exclusive: Where High Security or Security cylinders/cores are indicated, provide nationwide, geographically exclusive key system complying with the following restrictions.
- d. Identification:
 - 1) Mark permanent cylinders/cores and keys with applicable blind code for identification. Do not provide blind code marks with actual key cuts.
 - 2) Identification stamping provisions must be approved by the Architect and Owner.
 - 3) Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE" along with the "PATENTED" or patent number to enforce the patent protection.
 - 4) Failure to comply with stamping requirements will be cause for replacement of keys involved at no additional cost to Owner.
 - 5) Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.
- e. Quantity: Furnish in the following quantities.
 - 1) Change (Day) Keys: 3 per cylinder/core.
 - 2) Permanent Control Keys: 3.
 - 3) Master Keys: 6.

2.09 DOOR CLOSERS

A. Manufacturers and Products:

- 1. Scheduled Manufacturer and Product:
 - a. LCN 4040XP series
- 2. Acceptable Manufacturers and Products:
 - a. Corbin-Russwin DC8000 series
 - b. Sargent 281 series

B. Requirements:

- 1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
- 2. Provide door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
- 3. Cylinder Body: 1-1/2-inch (38 mm) diameter with 5/8-inch (16 mm) diameter double heat-treated pinion journal.
- 4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.

5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards.
6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck.
7. Provide closers with solid forged steel main arms and factory assembled heavy-duty forged forearms for parallel arm closers.
8. Pressure Relief Valve (PRV) Technology: Not permitted.
9. Finish for Closer Cylinders, Arms, Adapter Plates, and Metal Covers: Powder coating finish which has been certified to exceed 100 hours salt spray testing as described in ANSI Standard A156.4 and ASTM B117, or has special rust inhibitor (SRI).
10. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

2.10 PROTECTION PLATES

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Ives
2. Acceptable Manufacturers:
 - a. Burns
 - b. Trimco

B. Requirements:

1. Provide protection plates with a minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
2. Size plates 2 inches (51 mm) less width of door on single doors, pairs of doors with a mullion, and doors with edge guards. Size plates 1 inch (25 mm) less width of door on pairs without a mullion or edge guards.
3. At fire rated doors, provide protection plates over 16 inches high with UL label.

2.11 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

A. Manufacturers:

1. Scheduled Manufacturers:
 - a. Glynn-Johnson
2. Acceptable Manufacturers:
 - a. Rixson
 - b. Sargent

B. Requirements:

1. Provide overhead stop at any door where conditions do not allow for a wall stop or floor stop presents tripping hazard.
2. Provide friction type at doors without closer and positive type at doors with closer.

2.12 DOOR STOPS AND HOLDERS

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Ives
2. Acceptable Manufacturers:
 - a. Trimco
 - b. Burns

B. Provide door stops at each door leaf:

1. Provide wall stops wherever possible. Provide concave type where lockset has a push button or thumbturn.
2. Where a wall stop cannot be used, provide universal floor stops.
3. Where wall or floor stop cannot be used, provide overhead stop.
4. Provide roller bumper where doors open into each other and overhead stop cannot be used.

2.13 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Zero International
2. Acceptable Manufacturers:
 - a. National Guard
 - b. Reese

B. Requirements:

1. Provide thresholds, weather-stripping, and gasketing systems as specified and per architectural details. Match finish of other items.
2. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
3. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.

4. Size thresholds 1/2 inch (13 mm) high by 5 inches (127 mm) wide by door width unless otherwise specified in the hardware sets or detailed in the drawings.

2.14 SILENCERS

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Ives
2. Acceptable Manufacturers:
 - a. Burns
 - b. Trimco

B. Requirements:

1. Provide "push-in" type silencers for hollow metal or wood frames.
2. Provide one silencer per 30 inches (762 mm) of height on each single frame, and two for each pair frame.
3. Omit where gasketing is specified.

2.15 DOOR POSITION SWITCHES

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Schlage
2. Acceptable Manufacturers:
 - a. GE-Interlogix
 - b. Sargent

B. Requirements:

1. Provide recessed or surface mounted type door position switches as specified.
2. Coordinate door and frame preparations with door and frame suppliers. If switches are being used with magnetic locking device, provide minimum of 4 inches (102 mm) between switch and magnetic locking device.

2.16 FINISHES

A. FINISH: BHMA 626/652 (US26D); EXCEPT:

1. Hinges at Exterior Doors: BHMA 630 (US32D)
2. Aluminum Geared Continuous Hinges: BHMA 628 (US28)

3. Push Plates, Pulls, and Push Bars: BHMA 630 (US32D)
 4. Protection Plates: BHMA 630 (US32D)
 5. Overhead Stops and Holders: BHMA 630 (US32D)
 6. Door Closers: Powder Coat to Match
 7. Wall Stops: BHMA 630 (US32D)
 8. Latch Protectors: BHMA 630 (US32D)
 9. Weatherstripping: Clear Anodized Aluminum
 10. Thresholds: Mill Finish Aluminum
- B. FINISH: BHMA 643E/716 (US11); EXCEPT:
1. Door Closers: Powder Coat to Match.
 2. Weatherstripping: Dark Bronze Anodized Aluminum.
 3. Thresholds: Extruded Architectural Bronze, Oil-Rubbed

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance. Verify doors, frames, and walls have been properly reinforced for hardware installation.
- B. Field verify existing doors and frames receiving new hardware and existing conditions receiving new openings. Verify that new hardware is compatible with existing door and frame preparation and existing conditions.
- C. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- D. Submit a list of deficiencies in writing and proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.
 1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
 2. Custom Steel Doors and Frames: HMMA 831.
 3. Interior Architectural Wood Flush Doors: ANSI/WDMA I.S. 1A
 4. Installation Guide for Doors and Hardware: DHI TDH-007-20
- B. Install door hardware in accordance with NFPA 80, NFPA 101 and provide post-install inspection, testing as specified in section 1.03.E unless otherwise required to comply with governing regulations.
- C. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.
- D. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.
- E. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.

- F. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- G. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.
- H. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated.
- I. Lock Cylinders:
 - 1. Install construction cores to secure building and areas during construction period.
 - 2. Replace construction cores with permanent cores as indicated in keying section.
 - 3. Furnish permanent cores to Owner for installation.
- J. Wiring: Coordinate with Division 26, ELECTRICAL and Division 28 ELECTRONIC SAFETY AND SECURITY sections for:
 - 1. Conduit, junction boxes and wire pulls.
 - 2. Connections to and from power supplies to electrified hardware.
 - 3. Connections to fire/smoke alarm system and smoke evacuation system.
 - 4. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
 - 5. Connections to panel interface modules, controllers, and gateways.
 - 6. Testing and labeling wires with Architect's opening number.
- K. Door Closers: Mount closers on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers so they are not visible in corridors, lobbies and other public spaces unless approved by Architect.
- L. Closer/holders: Mount closer/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.
- M. Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings or in equipment room, or alternate location as directed by Architect.
- N. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."
- O. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.
- P. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
- Q. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- R. Door Bottoms and Sweeps: Apply to bottom of door, forming seal with threshold when door is closed.

3.03 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
 - 1. Spring Hinges: Adjust to achieve positive latching when door can close freely from an open position of 30 degrees.
 - 2. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.

3. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.
- B. Occupancy Adjustment: Approximately three to six months after date of Substantial Completion, examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

3.04 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items per manufacturer's instructions to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

3.05 DOOR HARDWARE SCHEDULE

- A. The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, specifications, drawings, and other Contract Documents to verify the suitability of the hardware specified.
- B. Discrepancies, conflicting hardware, and missing items are to be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application.
- C. Hardware items are referenced in the following hardware schedule. Refer to the above specifications for special features, options, cylinders/keying, and other requirements.

Abbreviation	Name
GLY	Glynn-Johnson Corp
IVE	H.B. Ives
LCN	Lcn Commercial Division
MIS	Misc - Out-Sourced Items
SCE	Schlage Electronic Security
SCH	Schlage Lock Company
VON	Von Duprin
ZER	Zero International Inc

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HARDWARE SET NO. 01 - SINGLE PUSH PULL - ALUMINUM DOOR

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	224XY		628	IVE
1	EA	PUSH/PULL BAR	9190HD-10"-NO		630	IVE
1	EA	SURFACE CLOSER	4040XP		689	LCN
1	EA	MOUNTING PLATE	4040XP-18 SRT		689	LCN
1	EA	WALL STOP	WS406/407CCV		630	IVE

HARDWARE SET NO. 02 - SINGLE PUSH PULL - ALUMINUM DOOR - LOCKABLE

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	224XY		628	IVE
1	EA	DEADBOLT	MS1850, TO SUIT DOOR		630	ADA
1	EA	MORTISE CYLINDER	20-062 X K510-711 36-082-018		626	SCH
1	EA	THUMB TURN CYLINDER	4066		628	ADA
1	EA	FSIC CORE	23-030 CKC EV D		626	SCH
1	EA	PUSH/PULL BAR	9190HD-10"-NO		630	IVE
1	EA	SURFACE CLOSER	4040XP		689	LCN
1	EA	MOUNTING PLATE	4040XP-18 SRT		689	LCN
1	EA	WALL STOP	WS406/407CCV		630	IVE

HARDWARE SET NO. 03 - RATED OUT L-BE SCUSH

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
6	EA	HINGE	5BB1HW 4.5 X 4.5		652	IVE
1	EA	FIRE EXIT HARDWARE	9827-EO-F-LBRAFL-499F		626	VON
1	EA	FIRE EXIT HARDWARE	9827-L-F-2SI-LBRAFL-06-499F		626	VON
2	EA	RIM CYLINDER	20-057 ICX		626	SCH
2	EA	FSIC CORE	23-030 CKC EV D		626	SCH
2	EA	SURFACE CLOSER	4040XP SCUSH		689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS		630	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER

HARDWARE SET NO. 03.1 - RATED CUSH L-BE WS

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5		652	IVE
1	EA	FIRE EXIT HARDWARE	98-L-BE-F-06		626	VON
1	EA	SURFACE CLOSER	4040XP CUSH		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER

HARDWARE SET NO. 04 - RATED IN LOCKABLE OH

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CLASSROOM LOCK	ND70TD RHO		626	SCH
1	EA	FSIC CORE	23-030 CKC EV D		626	SCH
1	EA	OH STOP	90S		630	GLY
1	EA	SURFACE CLOSER	4040XP		689	LCN
1	EA	MOUNTING PLATE	4040XP-18 SRT (IF TOP RAIL LESS THAN 3-3/4")		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER

HARDWARE SET NO. 05 - RATED IN LOCKABLE OH

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	STOREROOM LOCK	ND80TD RHO		626	SCH
1	EA	FSIC CORE	23-030 CKC EV D		626	SCH
1	EA	SURFACE CLOSER	4040XP		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER

HARDWARE SET NO. 06 - RATED IN LOCKABLE WS

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5		652	IVE
1	EA	CLASSROOM LOCK	ND70TD RHO		626	SCH
1	EA	FSIC CORE	23-030 CKC EV D		626	SCH
1	EA	SURFACE CLOSER	4040XP		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER

HARDWARE SET NO. 06.1 - RATED OUT LOCKABLE WS

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5 NRP		652	IVE
1	EA	STOREROOM LOCK	ND80TD RHO		626	SCH
1	EA	FSIC CORE	23-030 CKC EV D		626	SCH
1	EA	SURFACE CLOSER	4040XP EDA		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	WALL STOP	WS406/407CCV		630	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER

HARDWARE SET NO. 07 - PUSH PULL SCUSH

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	CONT. HINGE	224XY		628	IVE
2	EA	PUSH PLATE	8200 4" X 16"		630	IVE
2	EA	PULL PLATE	8303 10" 4" X 16"		630	IVE
2	EA	SURFACE CLOSER	4040XP SCUSH		689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS		630	IVE
2	EA	SILENCER	SR64		GRY	IVE

HARDWARE SET NO. 08 - EXT NL X EO SCUSH AL

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	CONT. HINGE	224XY		628	IVE
1	EA	CONT. HINGE	224XY TWP CON		628	IVE
1	EA	POWER TRANSFER	EPT10 CON		689	VON
1	EA	PANIC HARDWARE	9847-DT		626	VON
1	EA	ELEC PANIC HARDWARE	RX-LC-QEL-9847-NL-CON 24 VDC		626	VON
1	EA	RIM CYLINDER	20-057 ICX		626	SCH
1	EA	PRIMUS CORE	20-740 EV D		626	SCH
2	EA	SURFACE CLOSER	4040XP SCUSH		689	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA SRT		689	LCN
2	EA	CUSH SHOE SUPPORT	4040XP-30 SRT		689	LCN
2	EA	BLADE STOP SPACER	4040XP-61 SRT		689	LCN
2	EA	DOOR SWEEP	328BK		BK	ZER
1	EA	THRESHOLD	655A		A	ZER
1	EA	WIRE HARNESS	CON-XX-P LENGTH AS REQUIRED FOR USE WITH DOOR			SCH
1	EA	WIRE HARNESS	CON-6W FOR USE WITH HINGE			SCH
2	EA	DOOR CONTACT	7764		628	SCE
1	SET	WEATHERSTRIPPING	BY ALUM FRAME MANUFACTURER			MIS
1	EA	POWER SUPPLY	BY SECURITY CONTRACTOR			MIS
1	EA	CARD READER	BY SECURITY CONTRACTOR			MIS

OPERATIONAL DESCRIPTION: ALWAYS READY FOR IMMEDIATE EGRESS, ACCESS BY KEY OR CARD READER TO RETRACT LATCHBOLT, DOOR CONTACT AND REQUEST TO EXIT CONNECTED TO BUILDING SECURITY.

HARDWARE SET NO. EX-00 - EXISTING TO REMAIN

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
	EA	EXISTING HARDWARE	TO REMAIN			MIS

HARDWARE SET NO. EX-00.1 - EXISTING TO REMAIN

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
	EA	EXISTING HARDWARE	TO REMAIN			MIS

HARDWARE SET NO. EX-01 - EXISTING DOOR AND FRAME - EXIT

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	FIRE EXIT HARDWARE	98-L-NL-F-06		626	VON
1	EA	RIM CYLINDER	20-057 ICX		626	SCH
1	EA	FSIC CORE	23-030 CKC EV D		626	SCH
1	EA	SURFACE CLOSER	4040XP EDA		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1		REUSE EXISTING	MAG HOLD OPEN		626	UNK
1	EA	GASKETING	488SBK PSA		BK	ZER

HARDWARE SET NO. EX-01.1 - EXISTING DOOR AND FRAME - EXIT

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	FIRE EXIT HARDWARE	98-L-NL-F-06		626	VON
1	EA	RIM CYLINDER	20-057 ICX		626	SCH
1	EA	FSIC CORE	23-030 CKC EV D		626	SCH
1	EA	SURFACE CLOSER	4040XP EDA		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER

HARDWARE SET NO. EX-01.2 - EXISTING DOOR AND FRAME - EXIT

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	FIRE EXIT HARDWARE	98-L-BE-F-06		626	VON
1	EA	RIM CYLINDER	20-057 ICX		626	SCH
1	EA	FSIC CORE	23-030 CKC EV D		626	SCH
1	EA	OH STOP	90S		630	GLY
1	EA	SURFACE CLOSER	4040XP		689	LCN
1	EA	MOUNTING PLATE	4040XP-18 SRT		689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS		630	IVE
1	EA	GASKETING	488SBK PSA		BK	ZER

HARDWARE SET NO. EX-02 - PAIR DOUBLE EGRESS - EXISTING DOOR AND FRAME - EXIT

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	FIRE EXIT HARDWARE	98-EO-F		626	VON
2	EA	SURFACE CLOSER	4040XPT DE		689	LCN
4	EA	KICK PLATE	8400 10" X 1" LDW B-CS		630	IVE
2		REUSE EXISTING	MAG HOLD OPEN		626	UNK
1	EA	GASKETING	488SBK PSA		BK	ZER

HARDWARE SET NO. EX-03 - PAIR EXTERIOR - EXISTING DOOR AND FRAME - EXIT - ALARM

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	REMOVABLE MULLION	KR4954		689	VON
2	EA	PANIC HARDWARE	98-EO		626	VON
3	EA	MORTISE CYLINDER	20-061 ICX X K510-730 36-083 36-082-037		622	SCH
3	EA	PRIMUS CORE	20-740 EV D		626	SCH
2	EA	SURFACE CLOSER	4040XP HCUSH		689	LCN
2	EA	EXIT ALARM	EAX-500			DET

HARDWARE SET NO. EX-03.1 - PAIR EXTERIOR - EXISTING DOOR AND FRAME - EXIT - ALARM

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	PANIC HARDWARE	98-EO		626	VON
1	EA	PANIC HARDWARE	98-NL-OP-110MD		626	VON
1	EA	RIM CYLINDER	20-057 ICX		626	SCH
1	EA	MORTISE CYLINDER	20-061 ICX X K510-730 36-083 36-082-037		622	SCH
3	EA	PRIMUS CORE	20-740 EV D		626	SCH
2	EA	SURFACE CLOSER	4040XP HCUSH		689	LCN
2	EA	EXIT ALARM	EAX-500			DET

HARDWARE SET NO. EX-04 - PAIR EXISTING DOOR AND FRAME - EXIT

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	FIRE EXIT HARDWARE	9827-EO-F-LBRAFL-499F		626	VON
1	EA	FIRE EXIT HARDWARE	9827-L-F-2SI-LBRAFL-06-499F		626	VON
2	EA	RIM CYLINDER	20-057 ICX		626	SCH
1	EA	FSIC CORE	23-030 CKC EV D		626	SCH
2	EA	SURFACE CLOSER	4040XP EDA		689	LCN

HARDWARE SET NO. EX-05 - SINGLE EXTERIOR - EXISTING DOOR AND FRAME 0 EXIT - ALARMED

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	PANIC HARDWARE	98-NL-OP-110MD		626	VON
1	EA	RIM CYLINDER	20-057 ICX		626	SCH
1	EA	MORTISE CYLINDER	20-061 ICX X K510-730 36-083 36-082-037		622	SCH
2	EA	PRIMUS CORE	20-740 EV D		626	SCH
1	EA	SURFACE CLOSER	4040XP HCUSH		689	LCN
1	EA	EXIT ALARM	EAX-500			DET

HARDWARE SET NO. EX-06 - SINGLE EXTERIOR - EXISTING DOOR AND FRAME - EXIT

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
1	EA	PANIC HARDWARE	98-NL-OP-110MD		626	VON
1	EA	MORTISE CYLINDER	20-061 ICX X K510-730 36-083 36-082-037		622	SCH
2	EA	PRIMUS CORE	20-740 EV D		626	SCH
1	EA	SURFACE CLOSER	4040XP HCUSH		689	LCN

HARDWARE SET NO. EX-07 - PAIR EXISTING DOOR AND FRAME - PUSH PULL

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER		FINISH	MFR
2	EA	PUSH PLATE	8200 4" X 16"		630	IVE
2	EA	PULL PLATE	8303 10" 4" X 16"		630	IVE
2	EA	SURFACE CLOSER	4011T		689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS		630	IVE
2		REUSE EXISTING	MAG HOLD OPEN		626	UNK

HARDWARE SET NO. TGP-01 - SINGLE CARD READER - TGP EXTERIOR

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	WELD ON PIVOTS	PROVIDED X TGP		
1	EA	POWER TRANSFER	EPTL - PROVIDED X TGP	689	SEC
1	EA	ELEC FIRE EXIT HARDWARE	RX-QEL-35A-NL-F-386 24 VDC X TGP	628	VON
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	FSIC CORE	23-030 CKC EV D	626	SCH
1	EA	SURFACE CLOSER	4040XP CUSH	689	LCN
1	EA	FIRE RATED SEALS	PROVIDED X TGP		
1	SET	THRESHOLD	PROVIDED X TGP		
1	EA	DOOR CONTACT	7764	628	SCE
	EA	POWER SUPPLY	BY SECURITY CONTRACTOR		MIS
	EA	CARD READER	BY SECURITY CONTRACTOR		MIS

HARDWARE SET NO. TGP-01.1 - SINGLE CARD READER - TGP EXTERIOR

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	WELD ON PIVOTS	PROVIDED X TGP		
1	EA	POWER TRANSFER	EPTL - PROVIDED X TGP	689	SEC
1	EA	ELEC FIRE EXIT HARDWARE	RX-QEL-35A-L-NL-F-360-06 24 VDC	628	VON
1	EA	MORTISE CYLINDER	20-061 ICX X K510-730 36-083 36- 082-037	622	SCH
1	EA	FSIC CORE	23-030 CKC EV D	626	SCH
1	EA	SURFACE CLOSER	4040XP CUSH	689	LCN
1	EA	FIRE RATED SEALS	PROVIDED X TGP		
1	SET	THRESHOLD	PROVIDED X TGP		
1	EA	DOOR CONTACT	7764	628	SCE
	EA	POWER SUPPLY	BY SECURITY CONTRACTOR		MIS
	EA	CARD READER	BY SECURITY CONTRACTOR		MIS

END OF SECTION