

YONKERS JOINT SCHOOLS CONSTRUCTION BOARD

NEW COMMUNITY SCHOOL 35 AT ST DENIS SITE

121 McLean Avenue
Yonkers, NY 10705

NOVEMBER 01, 2021

NEW COMMUNITY SCHOOL
35 AT ST DENIS SITE

NY SED Project Control No.
66-23-00-01-0-346-001

KG+D Project No.
2019-1026

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COVER

VOL. 2



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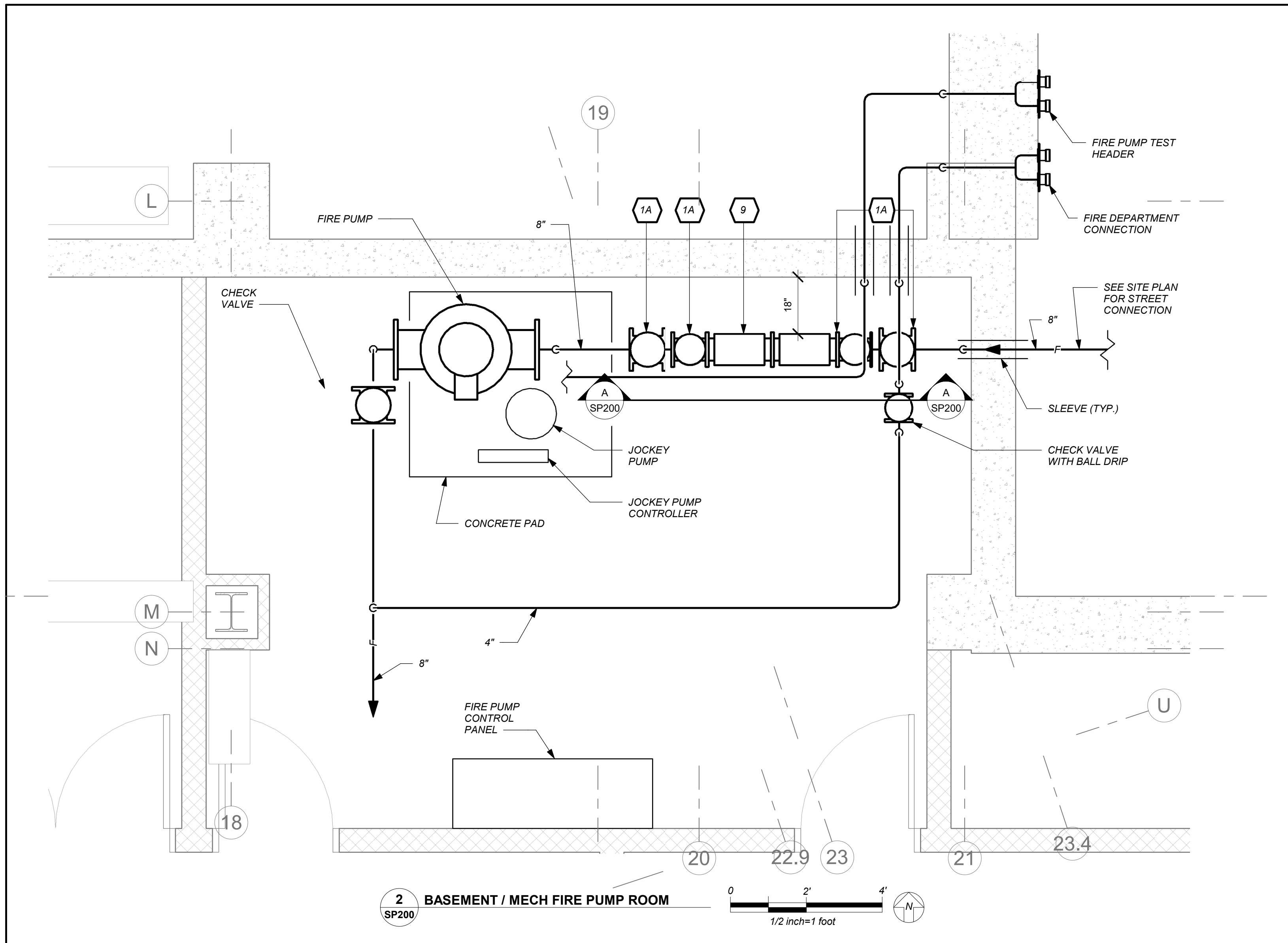
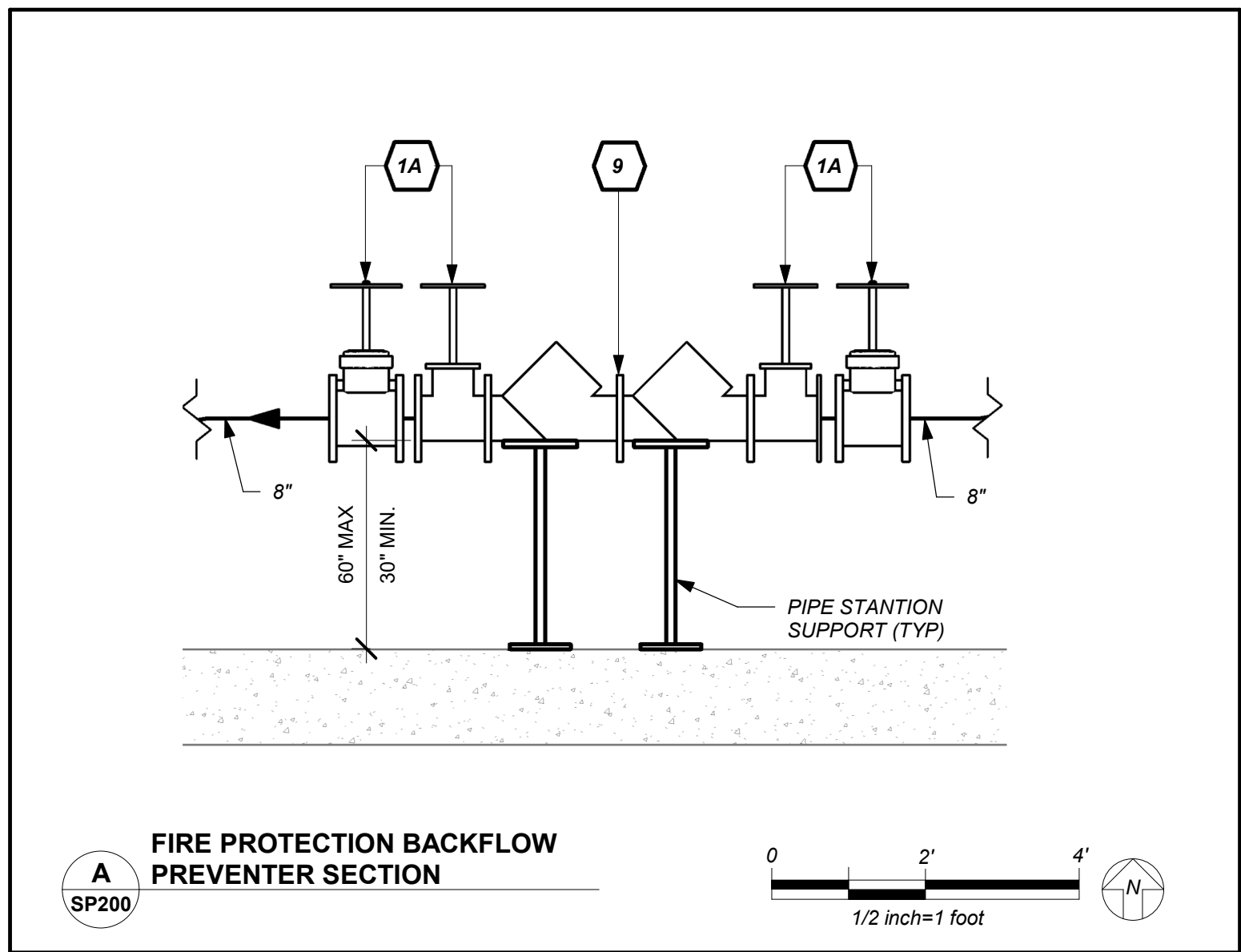
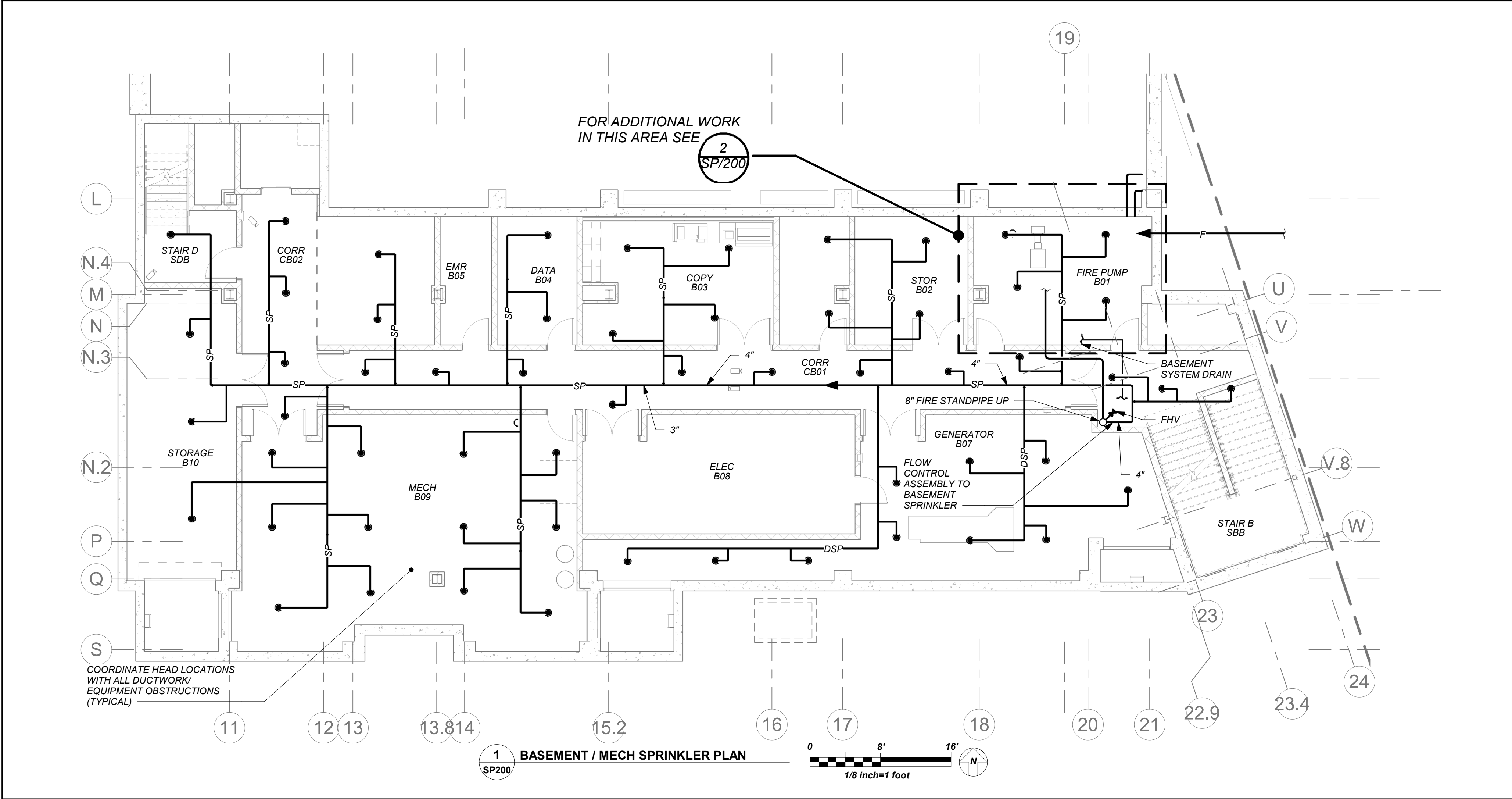
LIST OF BACKFLOW PREVENTER APPURTENANCES	
MARK	DESCRIPTION
1	RESILIENT SEATED GATE VALVE
1A	TAMPER PROOF RESILIENT SEATED GATE VALVE WITH TAMPER SWITCH
2	STRAINER
3	4" RPZ BACKFLOW PREVENTER - WATTS SERIES 909
4	WATER METER (PER WATER DEPARTMENT)
5	2" TEST OUTLET VALVE
6	PRESSURE REDUCING VALVE
7	AIR GAP (JR SMITH 3955)
8	FUNNEL (JR SMITH 3811)
9	8" DOUBLE CHECK DETECTOR ASSEMBLY-WATTS SERIES 709 DCDA

GENERAL NOTES:

1. LOCATION OF BACKFLOW DEVICES SHALL HAVE ADEQUATE HEAT AND LIGHT.
2. BACKFLOW DEVICES SHALL BE PROTECTED FROM FLOODING.
3. BACKFLOW DEVICES AND WATER METER SHALL BE TESTED AFTER INSTALLATION.
4. OWNER SHALL ARRANGE FOR BACKFLOW DEVICES TO BE TESTED ANNUALLY BY A CERTIFIED TESTER.
5. ANY REVISIONS OR ALTERATION OF THESE PLANS WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE SIGNING ENGINEER IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

BACKFLOW PREVENTER FILING REQUIREMENTS

- A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A LICENCED ENGINEER TO FILE ALL APPLICATIONS PERMITS AND FILING FEES WITH THE AUTHORITIES HAVING JURISDICTION OVER THE WORK.
- B. THE FOLLOWING LIST SERVES AS THE MINIMUM FILING REQUIREMENTS, FAILURE TO LIST ANY ITEM DOES NOT RELIEVE THE CONTRACTOR FROM FULFILLING THAT REQUIREMENT.
1. CERTIFICATE OF RESOLUTION OF LETTER OF AUTHORIZATION FROM OWNER/USER TO AUTHORIZE LICENCED PROFESSIONAL TO EXECUTE FILING.
 2. PREPARE AND SUBMIT FORM DOH-347 WITH PLANS, PROFESSIONAL ENGINEERS REPORT AND SPECIFICATIONS WITH ENGINEER'S SEAL. FILE WITH HEALTH DEPARTMENT AND WATER DEPARTMENT.
 3. FILING FEES, PER DEVICE.
 4. EVIDENCE OF CONFORMANCE TO NEW YORK STATE SANITARY CODE, PART 5 AND CHAPTER 873 OF THE LAWS OF WESTCHESTER COUNTY.



LEGEND	
	EXISTING PIPING, FIXTURES, ETC. TO REMAIN
	EXISTING PIPING, FIXTURES, ETC. TO BE REMOVED
	NEW PIPING, FIXTURES, ETC.
	WATER SERVICE PIPING EXTERIOR
	GAS PIPING
	FLOW DIRECTION WITHIN PIPE
	SHUT-OFF VALVE, GATE VALVE
	COMBINATION BALANCING & SHUT-OFF VALVE
	CHECK VALVE
	PIPE CONNS. (BOTTOM, TOP 45 OR 90, PIPE UP)
	PUMP DISCHARGE
	SPRINKLER PIPING
	DRY SPRINKLER PIPING
	FIRE SERVICE PIPING (EXTERIOR)
	SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	FIRE HOSE VALVE & PRV ASSEMBLY
	VENT THRU ROOF
	FRESH AIR INTAKE
	FLOOR DRAIN
	PRESSURE REDUCING VALVE/ PRESSURE REGULATING VALVE
	PLUMBING CONTRACTOR
	GENERAL CONTRACTOR
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	BACKFLOW PREVENTER APPURTENANCE IDENTIFICATION
	PART PLAN, DETAIL, SECTION NUMBER
	SECTION IDENTIFICATION

SPRINKLER GENERAL NOTES

1. CONTRACTOR SHALL NOT CUT ANY STRUCTURAL MEMBERS WITHOUT APPROVAL BY THE ARCHITECT. COORDINATE WITH OTHER PLUMBING AND DUCTWORK.
2. CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPING VALVES, HEADS, TESTS, HANGERS, FITTINGS ANY MISCELLANEOUS COMPONENTS TO RENDER THE SPRINKLER SYSTEM COMPLETE, OPERABLE AND IN ACCORDANCE WITH APPLICABLE CODES AND GENERALLY ACCEPTED INDUSTRY STANDARDS.

FIRE PROTECTION DESIGN SUMMARY (WET SYSTEM)

OCCUPANCY CLASSIFICATION: (NFPA 13)
ALL AREAS (EXCEPT AS NOTED BELOW): LIGHT HAZARD
MISCELLANEOUS STORAGE: ORDINARY HAZARD GROUP 1

SPRINKLER SYSTEM TESTS

1. HYDROSTATIC - 200 PSI FOR 2 HOURS WITHOUT LOSS OF PRESSURE.
2. SYSTEM OPERATIONAL TESTS - WATER FLOW DETECTING DEVICES.
3. CONTRACTOR SHALL PERFORM ALL SPRINKLER SYSTEM TESTS REQUIRED BY LOCAL FIRE INSPECTOR OR AUTHORITY HAVING JURISDICTION.
4. ALL TESTS SHALL BE WITNESSED BY LOCAL FIRE INSPECTOR OR AUTHORITY HAVING JURISDICTION. SUBMIT REPORT ON ALL TESTS TO LOCAL FIRE INSPECTOR AND ENGINEER FOR APPROVAL.

SCHEDULE OF SPRINKLER BRANCH PIPING SIZES

PIPE SIZE	MAX # OF SPRINKLER HEADS
1"	2
1-1/4"	3
1-1/2"	5
2"	10
2-1/2"	20
3"	40

NOTES

1. MAINS HAVE BEEN SHOWN. CONTRACTOR TO PROVIDE BRANCH PIPING BASED ON NFPA-13 PIPE SCHEDULE METHOD OF PIPE SIZING. HYDRAULIC METHOD WILL BE ACCEPTABLE AS WELL. SUBMIT SHOP DRAWINGS AND HYDRAULIC CALCULATIONS.

BUILDING STRUCTURE FIREPROOFING:

THE BUILDING STRUCTURE WILL BE PROTECTED BY 2" FIREPROOFING THROUGHOUT. THIS CONTRACTOR SHALL ISSUE COORDINATION DRAWINGS ACCORDING TO THE STRICT SCHEDULE OUTLINED IN THE "FRONT END" DOCUMENTS. ALL HANGERS FOR PIPING, CONDUIT, DUCTWORK, EQUIPMENT, ETC. MUST BE IN PLACE BEFORE FIREPROOFING TAKES PLACE. THE INSTALLATION OF HANGERS AFTER THE FACT THAT REQUIRES THE RE-APPLICATION OF FIREPROOFING WILL BE AT THE EXPENSE OF THIS CONTRACTOR.

BASEMENT WATERPROOFING:

REFER TO STRUCTURAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR SLAB/ WALL THICKNESS AND PENETRATION DETAILS. COORDINATE WITH G.C.

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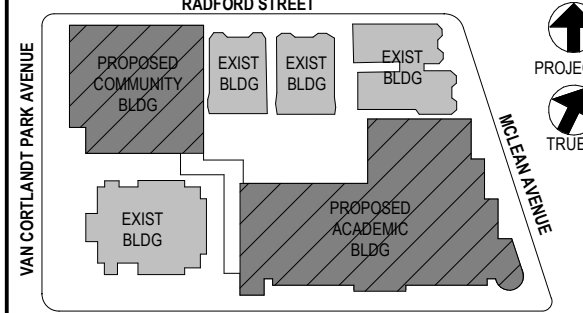
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CONSTRUCTION DOCUMENTS



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Professional Seal

4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN
No.	Date	Issue

Sheet Title

Legend, Schedule, Notes, and
Basement Floor Sprinkler Plan

Job No. 2019-1026 Date 11/17/20

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Sheet Number

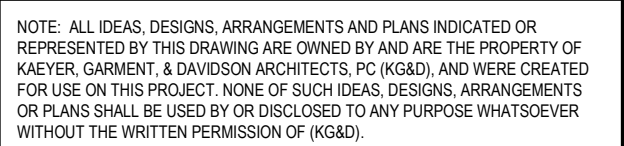
SP200

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CONSTRUCTION DOCUMENTS





Professional Seal

4	11/01/2021	ISSUED TO BID
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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Sheet Title

2019-1026	11/17/20
2019-1026	11/17/20

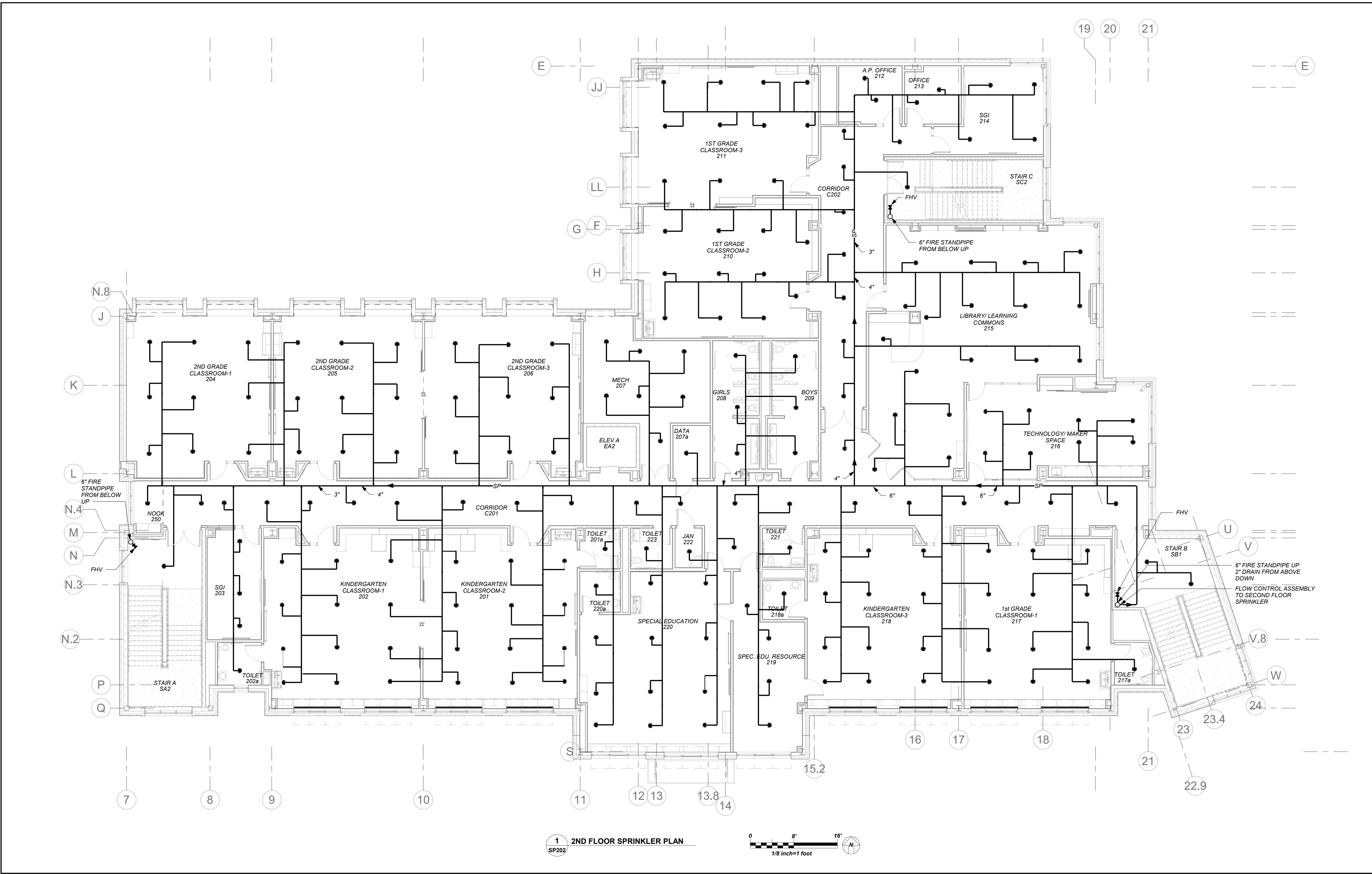
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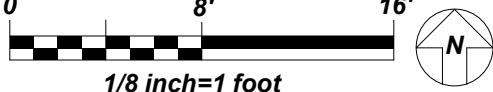


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VERIFY ALL MEASUREMENTS AND CONDITIONS ON
JOB AND COORDINATE HIS WORK WITH THE WORK
OF ALL OTHER CONTRACTORS



1
SP202 2ND FLOOR SPRINKLER PLAN



NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL
CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705

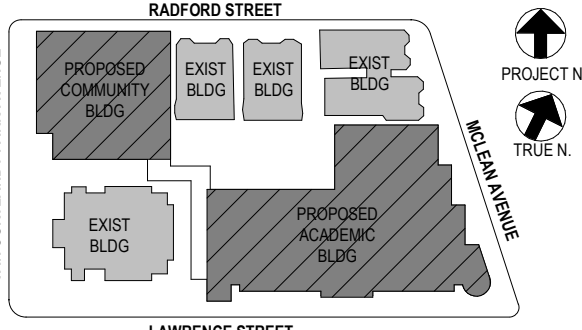


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CONSTRUCTION DOCUMENTS

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4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

No. Date Issue

Sheet Title

2nd Floor Plan

Job No. 2019-1026 Date 11/17/20

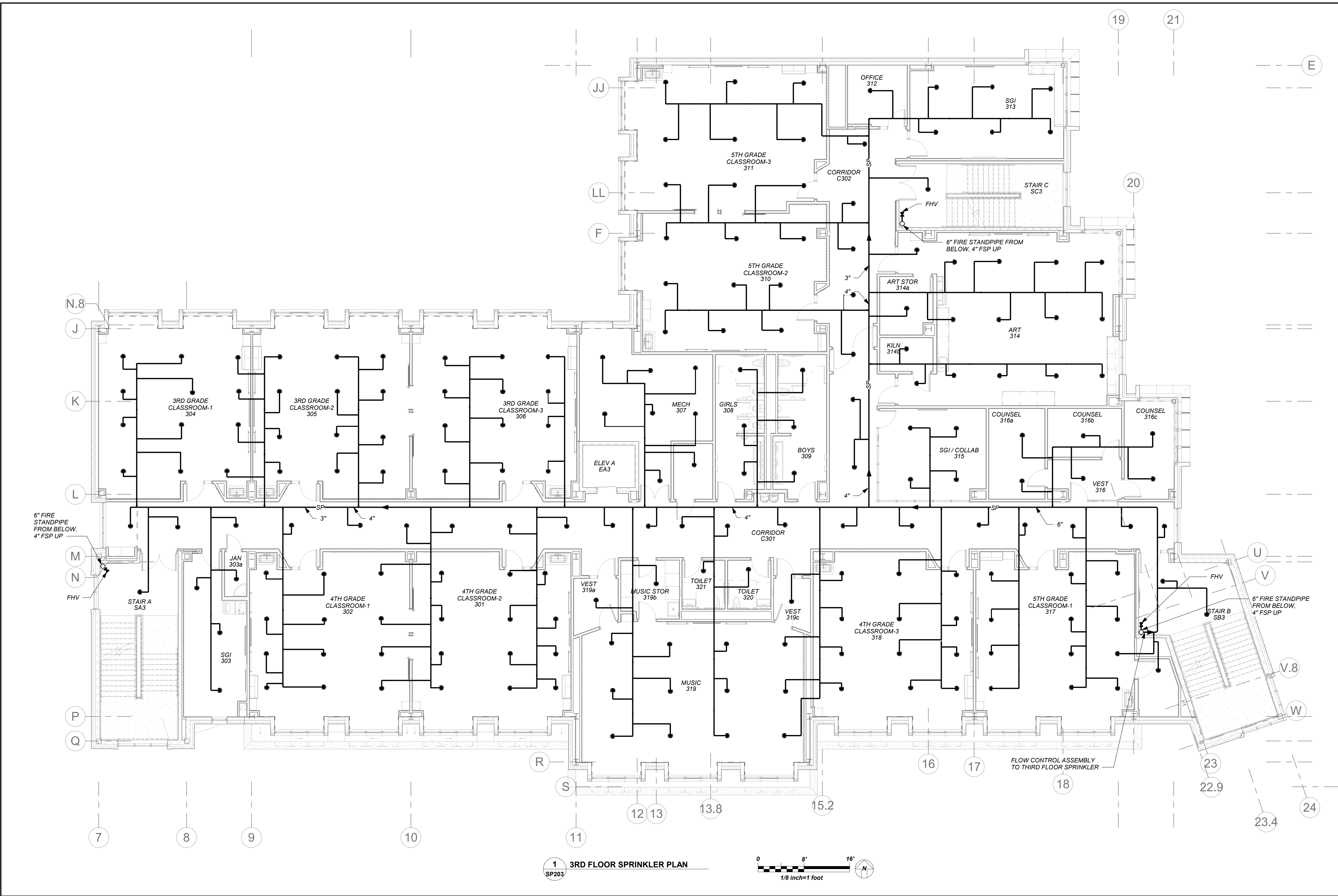
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Sheet Number

SP202

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NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

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CONSTRUCTION BOARD
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Yonkers, NY 10705



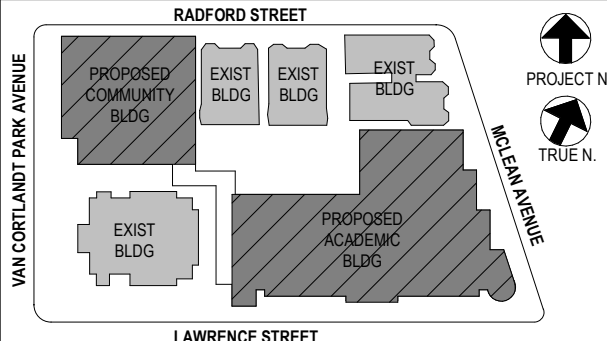
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66-23-00-01-0-346-001

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4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

No. Date Issue

Sheet Title

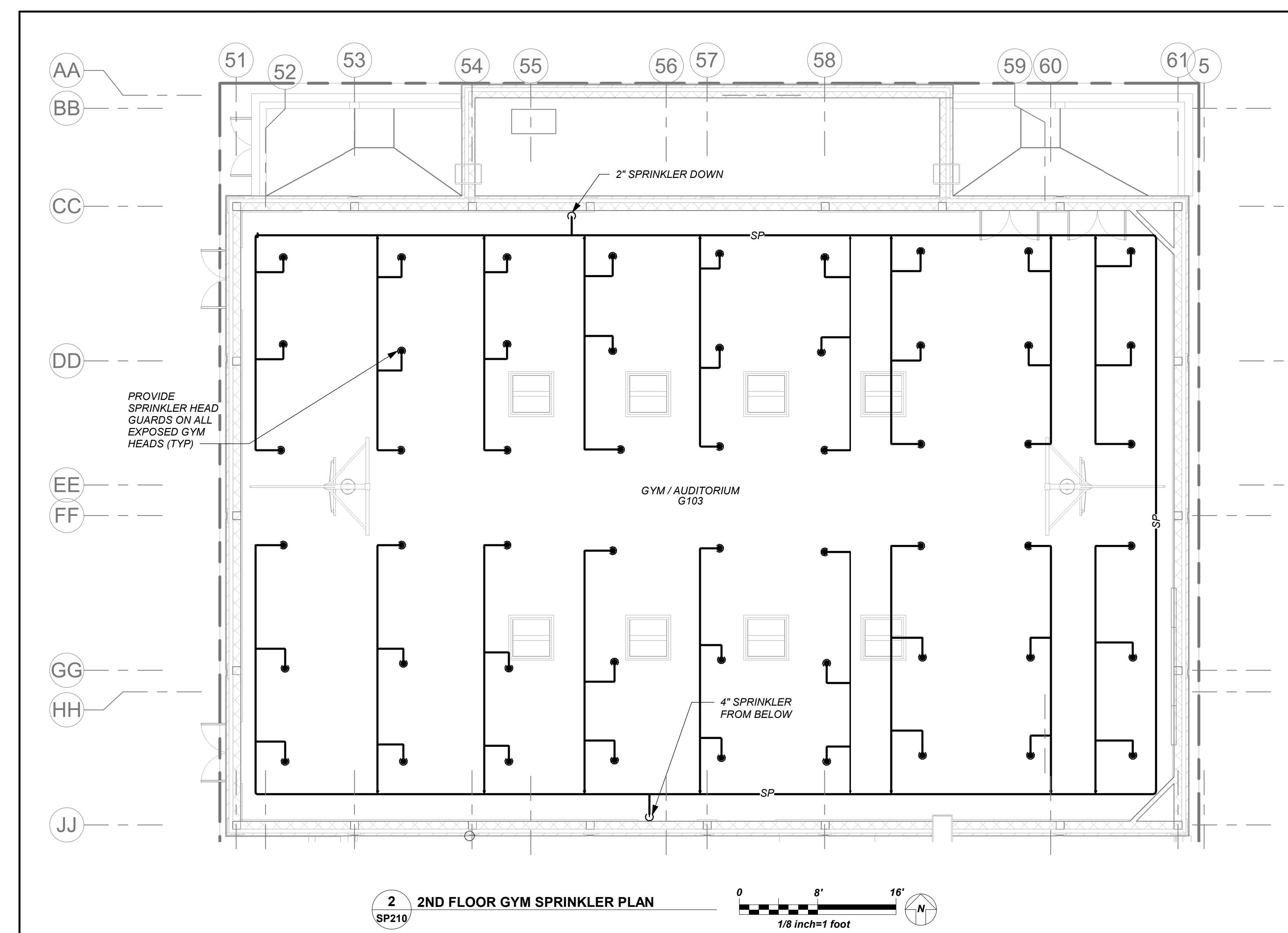
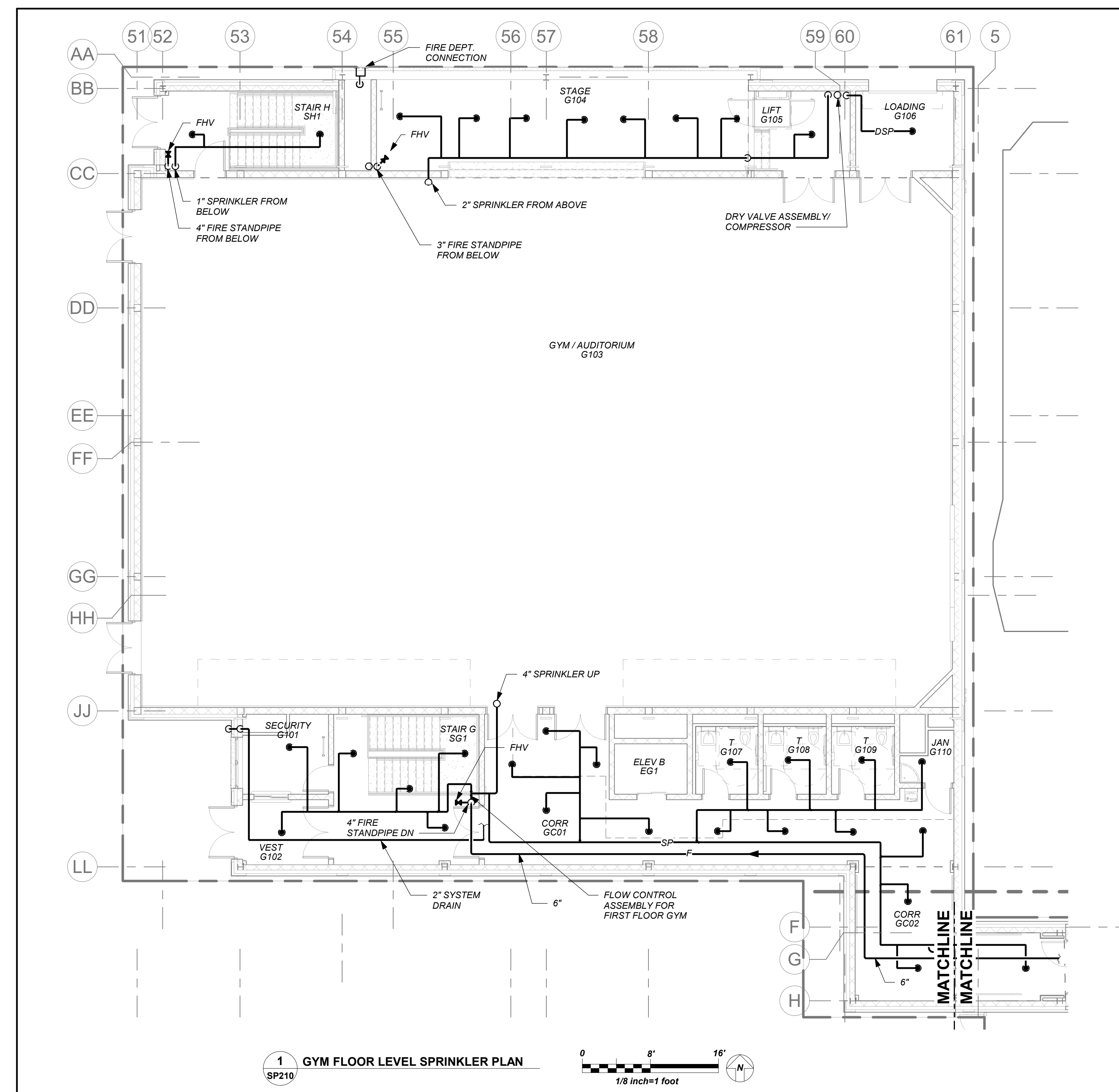
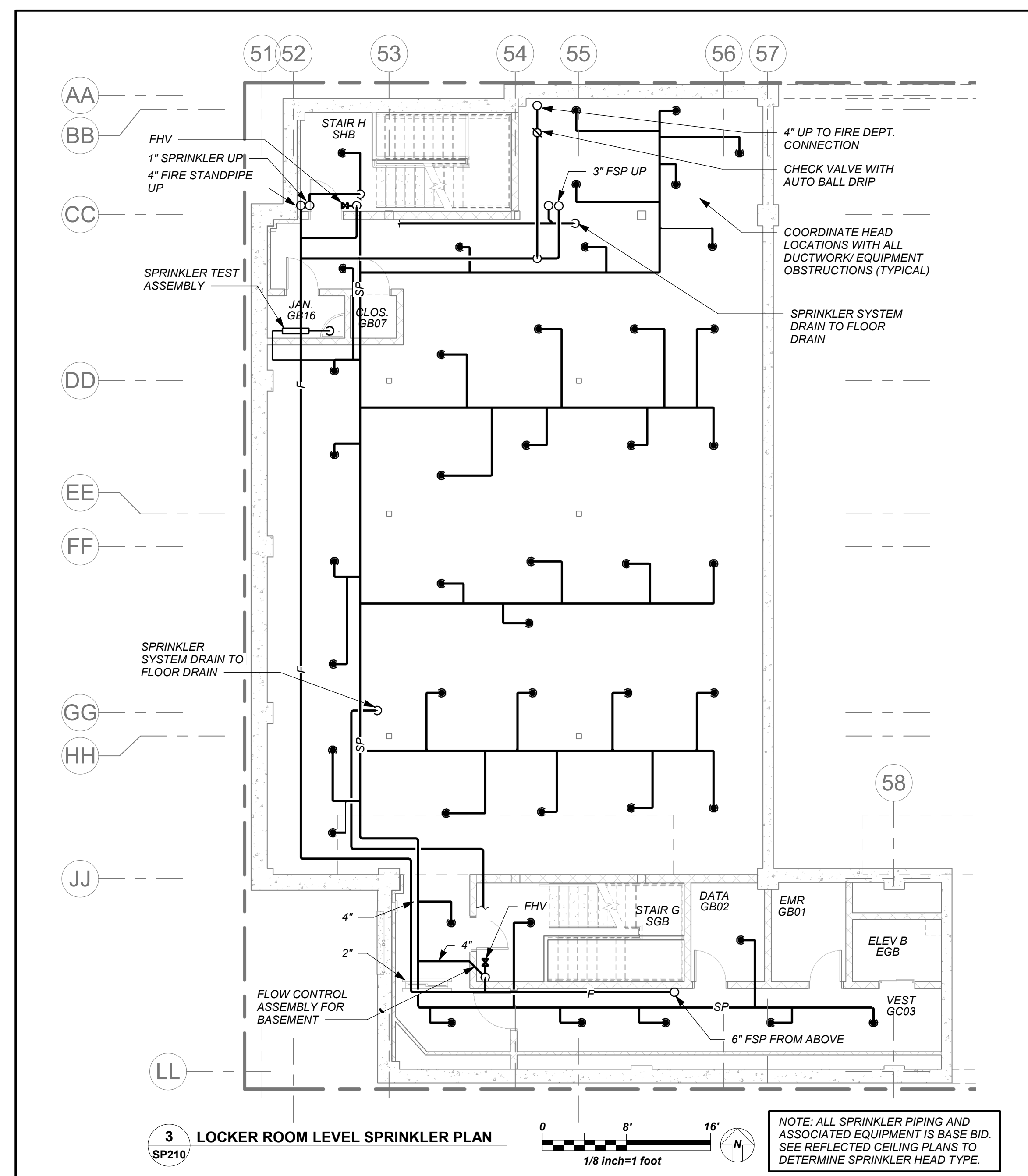
3rd Floor Plan

Job No. 2019-1026 Date 11/17/20

Scale AS NOTED Drawn / Checked BGA /BGA

Sheet Number

SP203



BEFORE FABRICATION THIS CONTRACTOR SHALL
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OF ALL OTHER CONTRACTORS

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL
CONSTRUCTION BOARD
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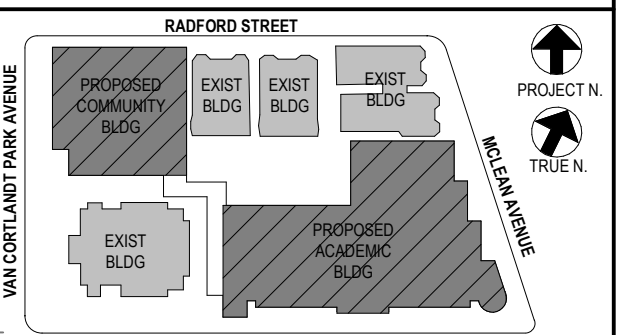
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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN
No.	Date	Issue

Community Wing Sprinkler Plan

Job No.	Date
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2019-1026	11/16/20
Scale	Drawn / Checked

Scale	Drawn / Checked
AS NOTED	BGA /BGA

SP210

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

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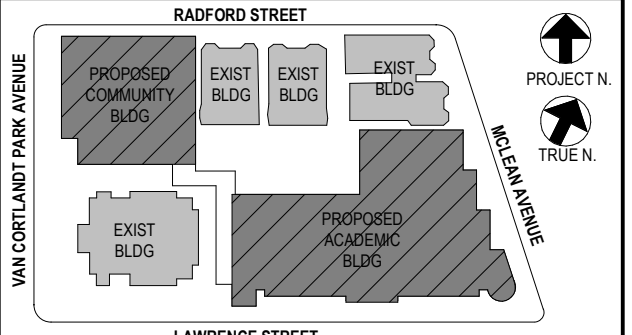
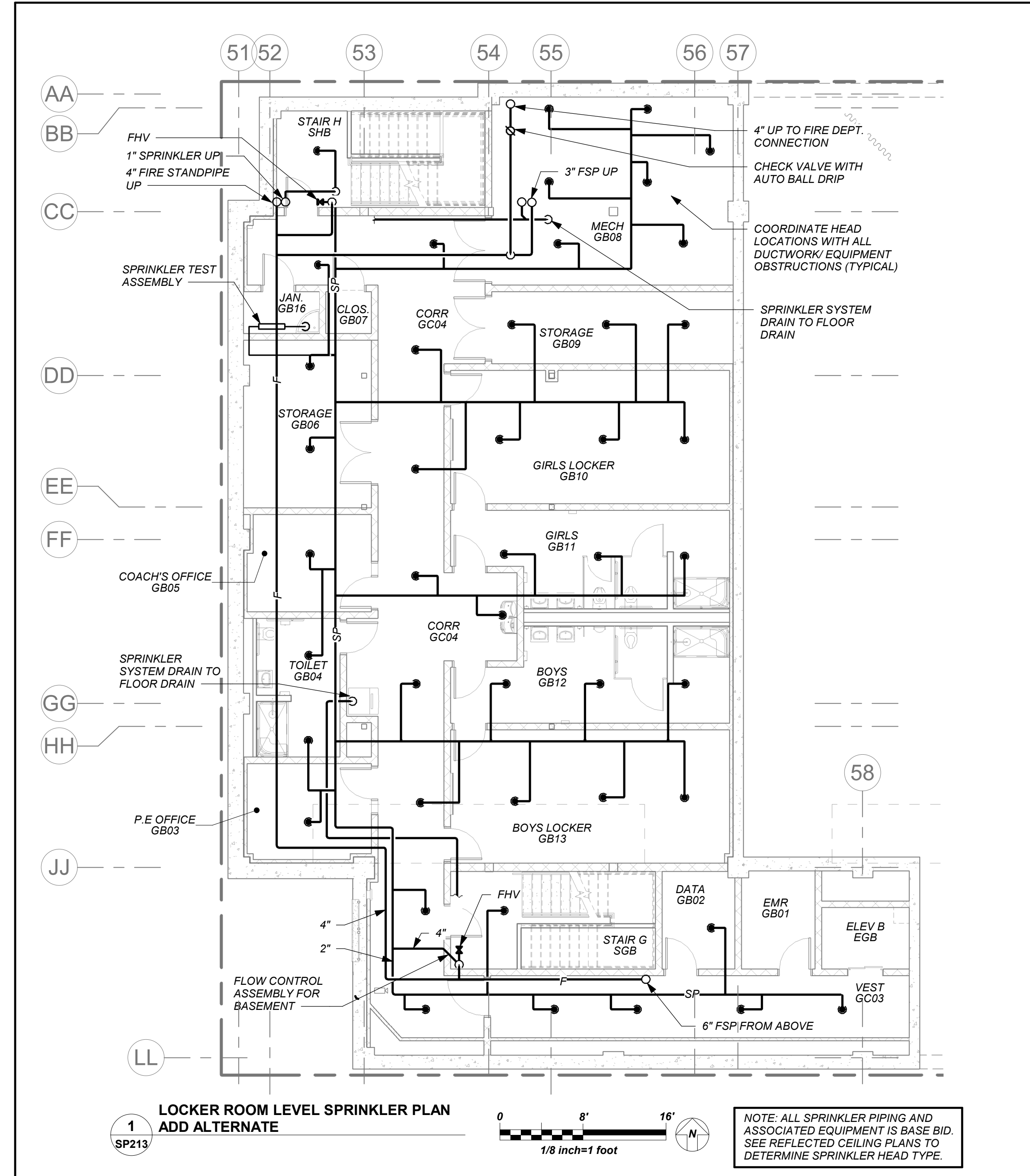
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Sheet Title

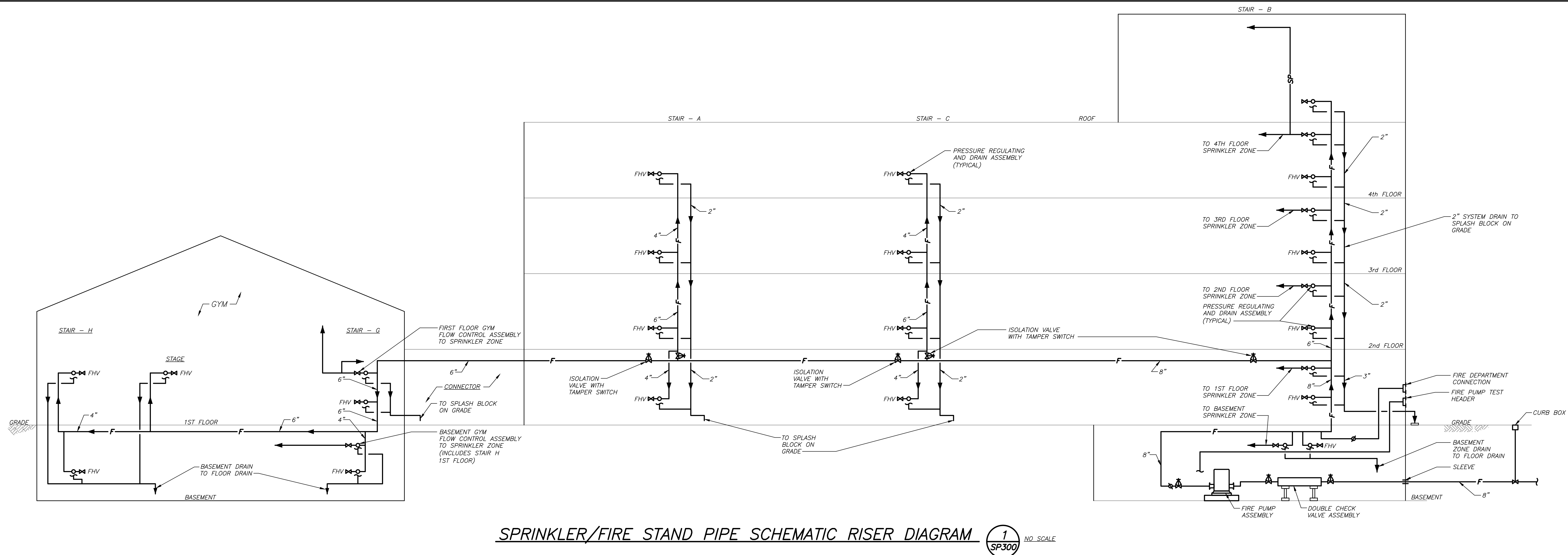
Community Wing Basement - Add Alt -
Gym Basement Fit-Out Plan

Job No. 2019-1026	Date 11/03/21
Scale AS NOTED	Drawn / Checked BGA / BGA

Sheet Number

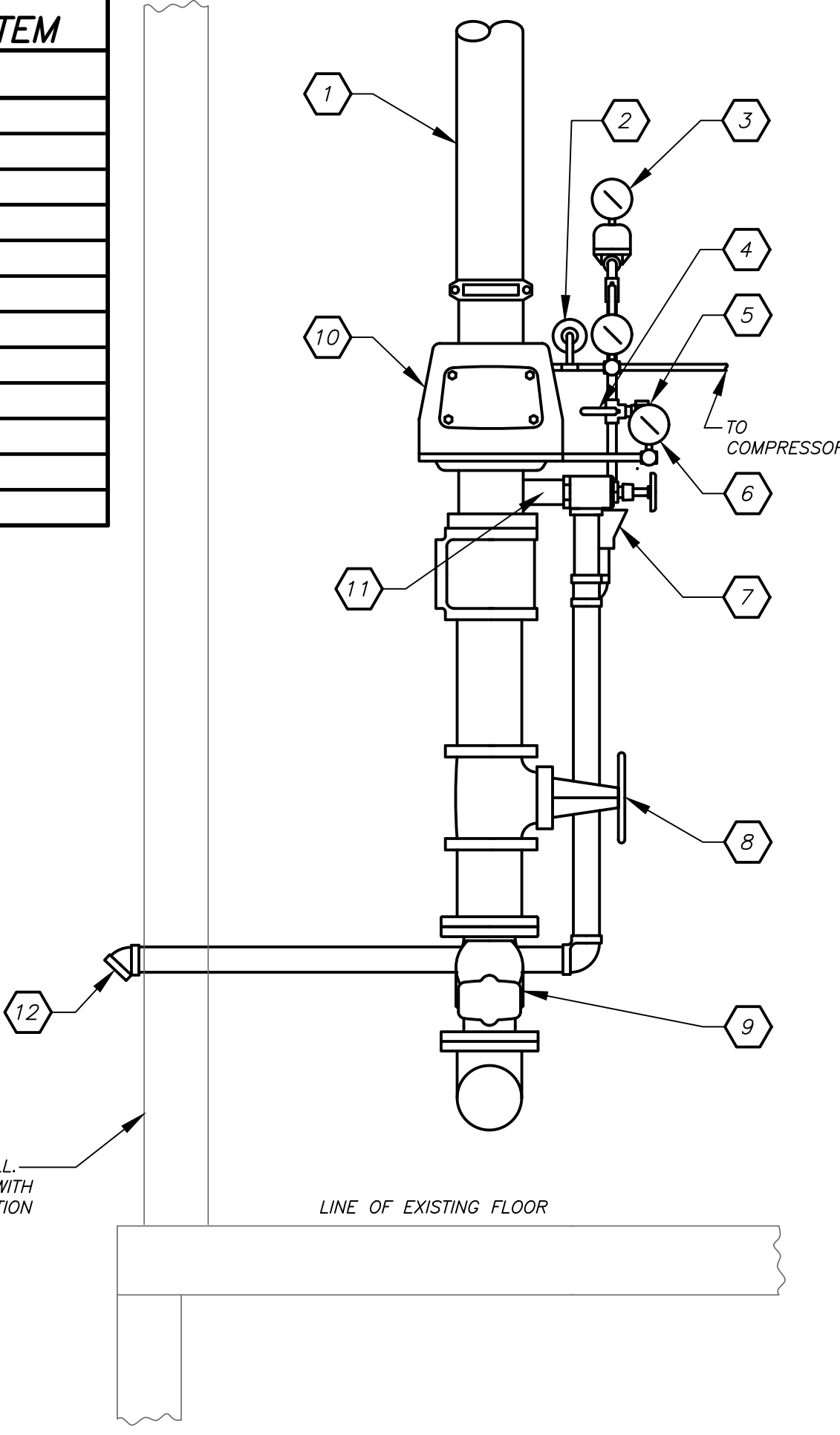
SP213

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OF ALL OTHER CONTRACTORS

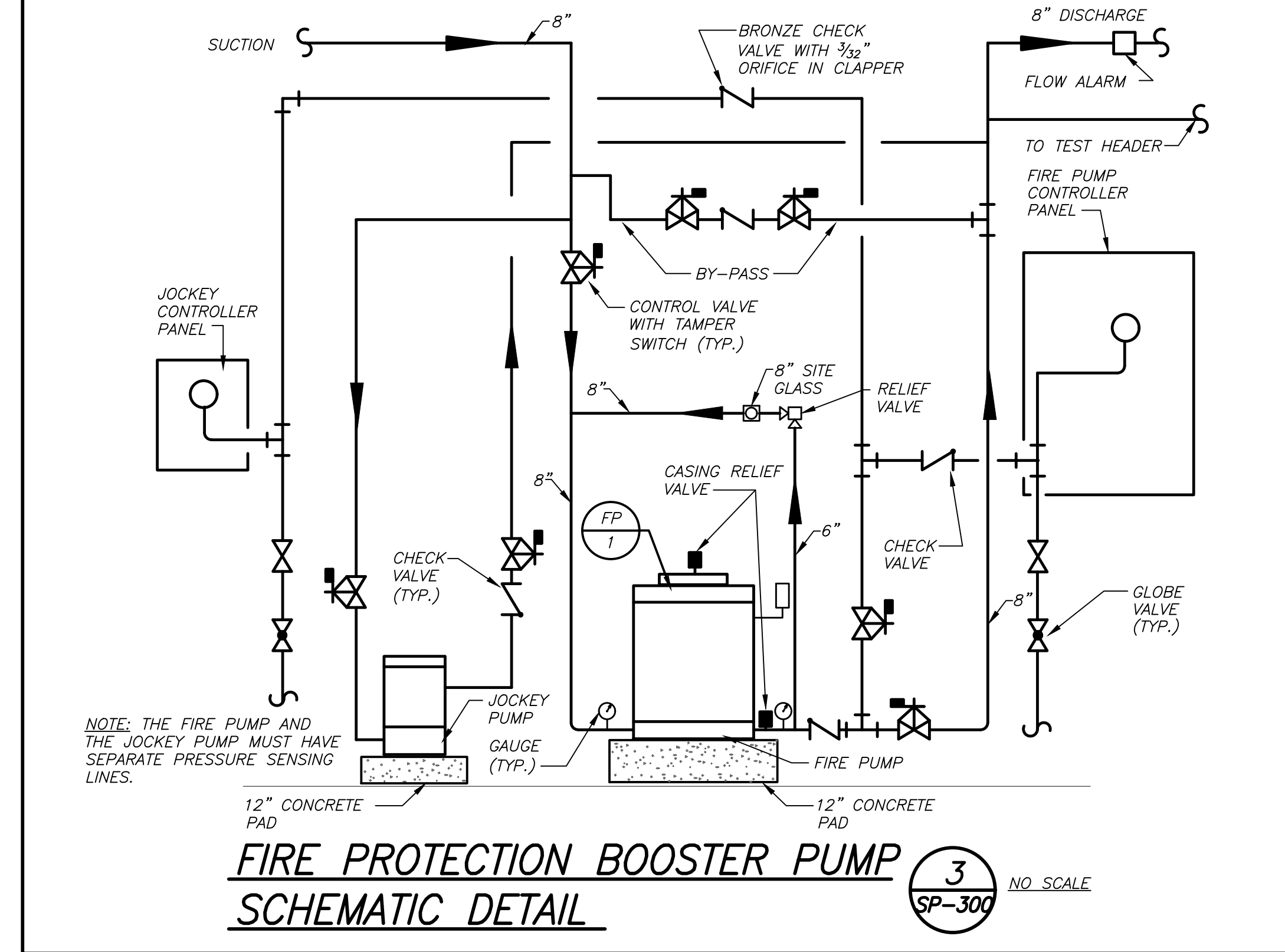


SPRINKLER/FIRE STAND PIPE SCHEMATIC RISER DIAGRAM **1** NO. SCALE
SP300

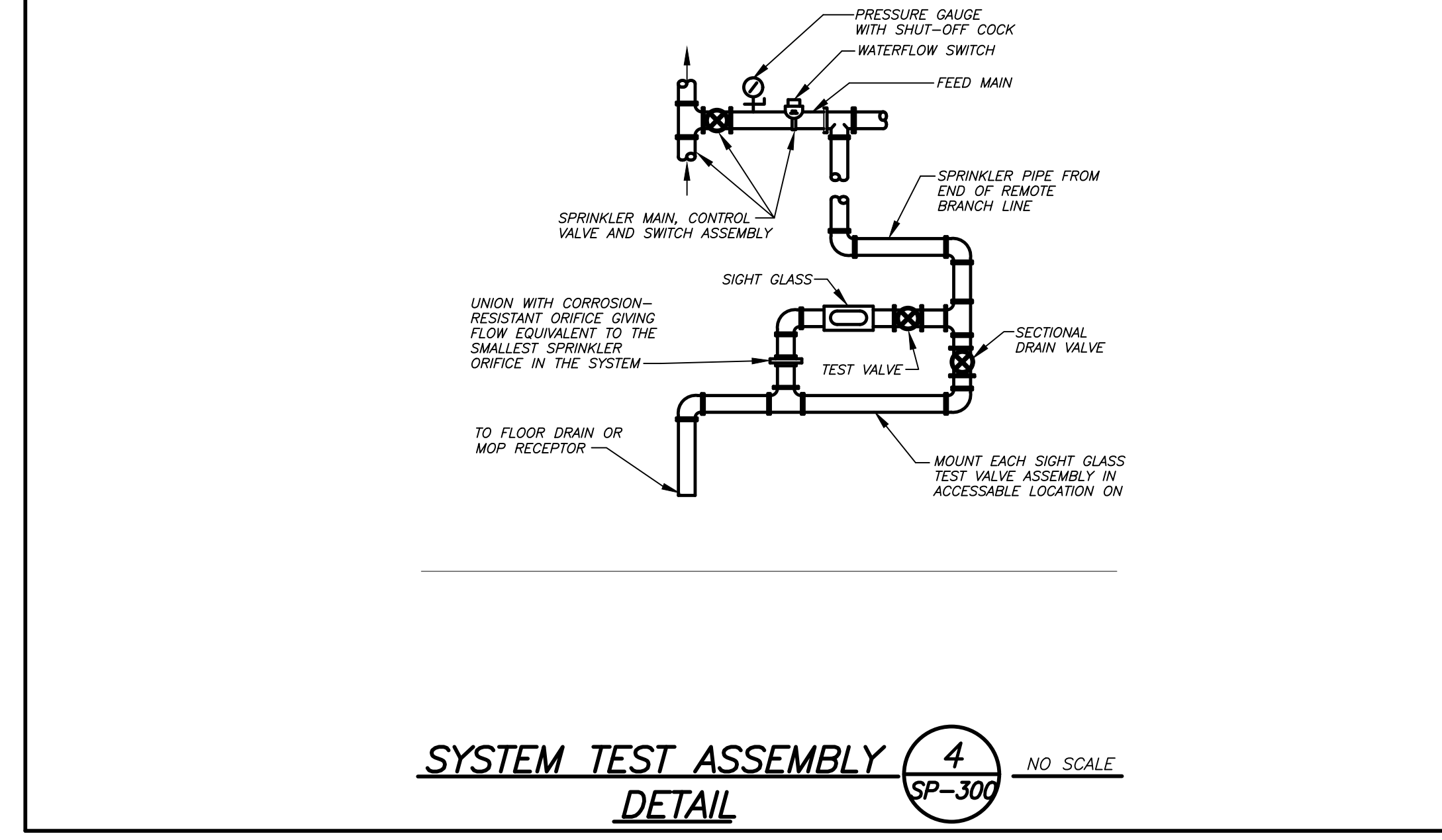
LIST OF SPRINKLER RISER APPURTENANCES-DRY SYSTEM	
MARK	DESCRIPTION
1	TO SPRINKLER DISTRIBUTION SYSTEM
2	AIR PRESSURE MAINTENANCE DEVICE
3	ACCELERATOR
4	ALARM TEST VALVE
5	PRESSURE SWITCH (HIDDEN)
6	ALARM LINE STRAINER (HIDDEN)
7	DRAIN CAP/FUNNEL
8	O.S. & Y. VALVE W/T'S
9	CHECK VALVE
10	DRY VALVE
11	TEST DRAIN VALVE
12	TEST DRAIN



DRY SPRINKLER RISER DETAIL **5** NOT TO SCALE
SP-300

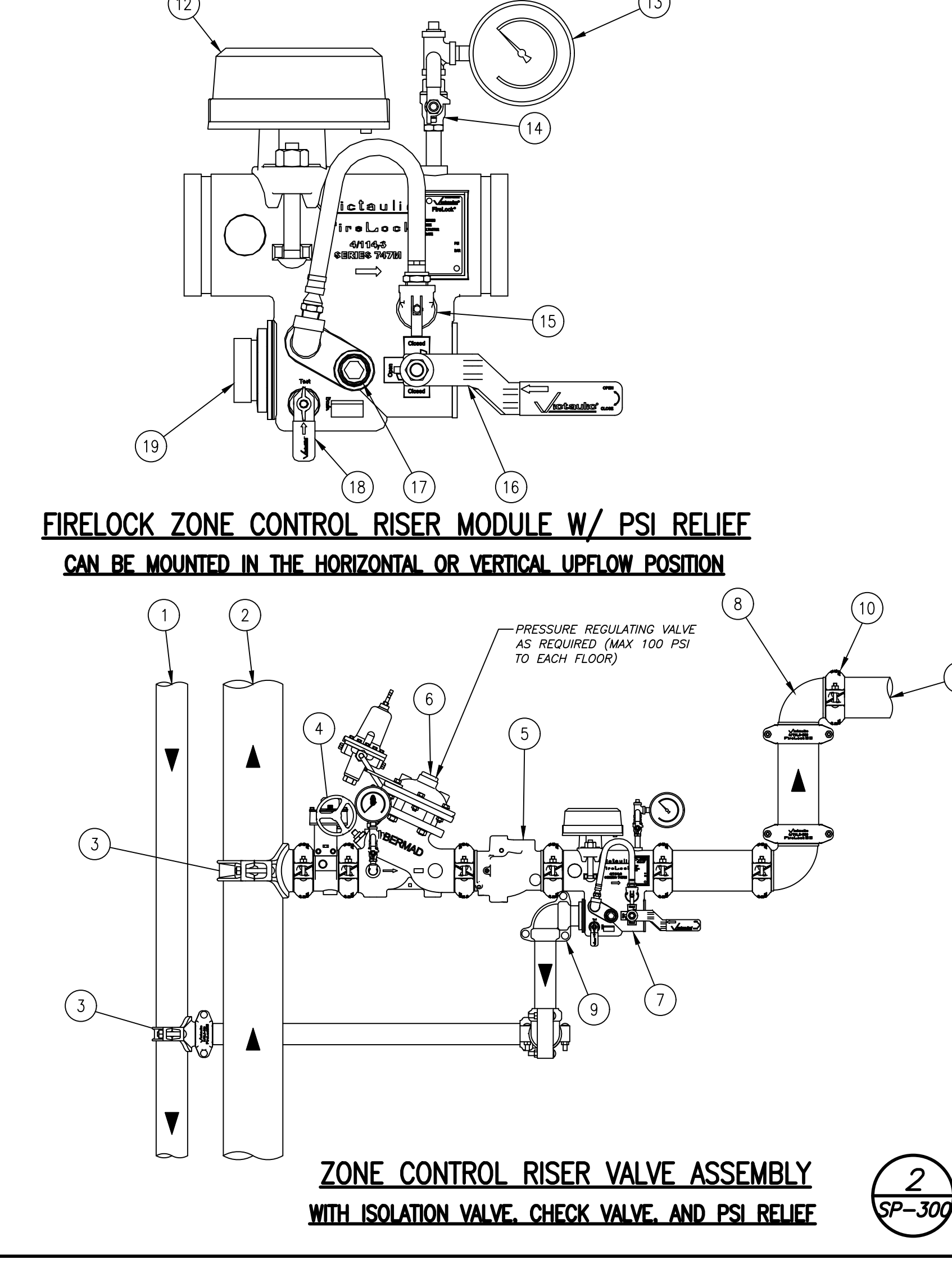


FIRE PROTECTION BOOSTER PUMP **3** NO. SCALE
SP-300

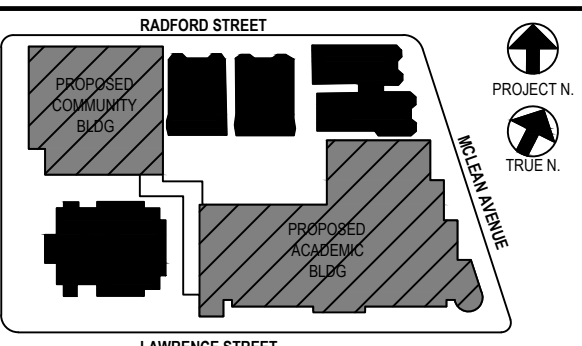


SYSTEM TEST ASSEMBLY **4** NO. SCALE
SP-300

PRODUCT LEGEND	
1	DRAIN RISER
2	RISER
3	MECHANICAL TEE STYLE 920N
4	VIC FIRELOCK BUTTERFLY VALVE SERIES 705
5	VIC FIRELOCK CHECK VALVE SERIES 717
6	VICTAULIC SERIES 887 PRESSURE REDUCING VALVE (Bartmold 720 UL/1" SHOWN)
7	VIC FIRELOCK ZONE CONTROL RISER MODULE SERIES 747MP W/PSI RELIEF VALVE
8	VIC FIRELOCK 90 DEG ELBOW No. 001
9	VIC R FIRELOCK 90 DEG ELBOW No. 101
10	VIC FIRELOCK EZ RIGID COUPLING STYLE 009N (OR) RIGID COUPLING STYLE 005
11	TO SPRINKLER SYSTEM
12	UL LISTED FM APPROVED FLOW SWITCH (SYSTEM SENSOR MODEL WFD)
13	PRESSURE GAUGE
14	ISOLATION VALVE FOR GAUGE
15	PRESSURE RELIEF VALVE
16	SHUT OFF VALVE (OFFSET HANDLE FOR ACCESS ON BOTH SIDES)
17	SITE GLASS (VISIBLE FROM BOTH SIDES)
18	TEST AND DRAIN VALVE (HANDLE ON BOTH SIDES)
19	GROOVED DRAIN CONNECTION
SEE VICTAULIC SUBMITTAL NUMBER 10.96	



ZONE CONTROL RISER VALVE ASSEMBLY **2** NO. SCALE
SP-300



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Professional Seal

Job No. 2019-1026 Date 11/18/20

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Sheet Number

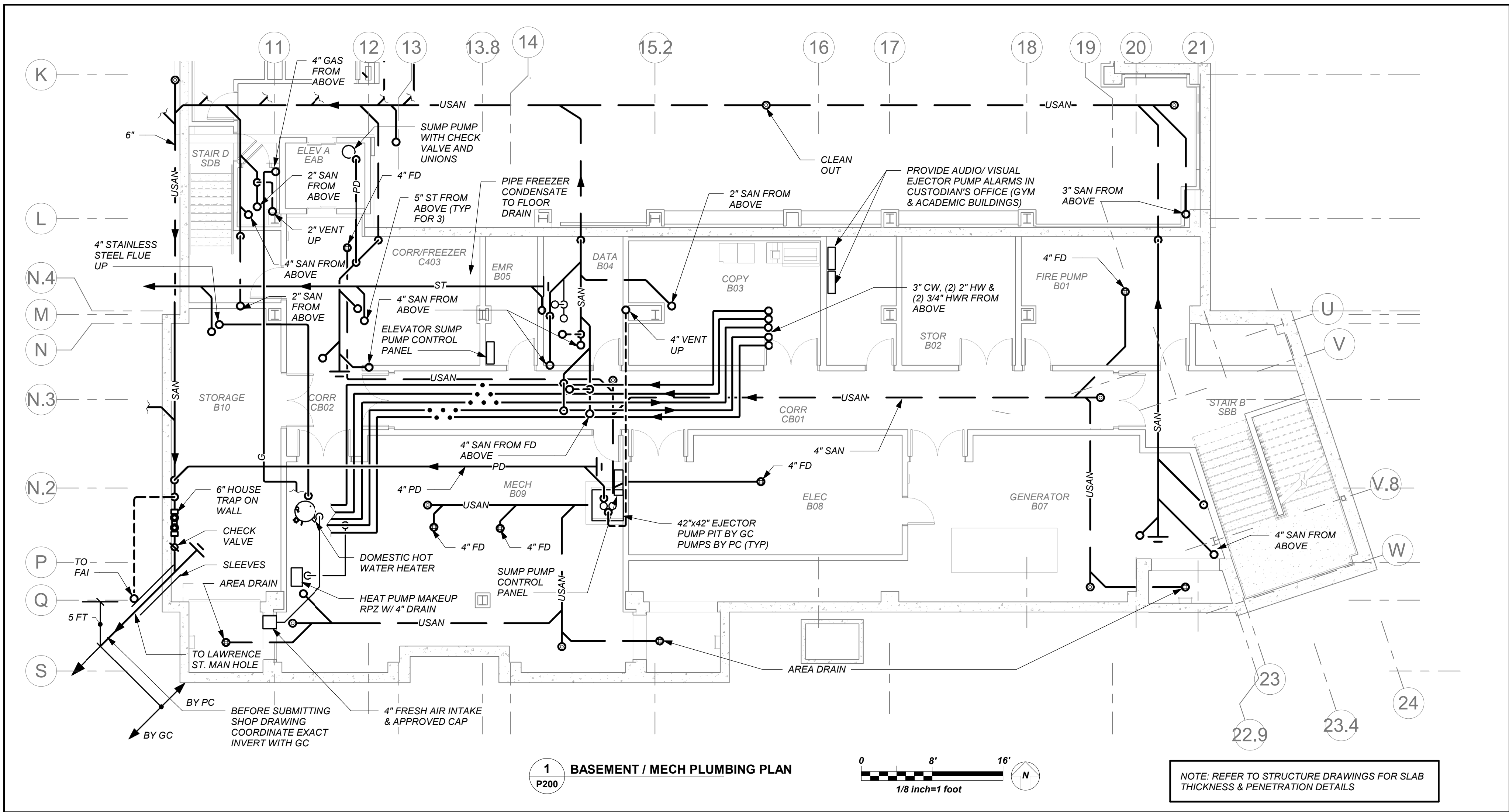
BUILDING SPRINKLER /
FIRE STANDPIPE RISER
DIAGRAM AND DETAILS

Job No. 2019-1026 Date 11/18/20

Scale AS NOTED Drawn / Checked BGA/BGA

Sheet Number

SP300



LIST OF BACKFLOW PREVENTER APPURTENANCES	
MARK	DESCRIPTION
1	RESILIENT SEATED GATE VALVE
2	TAMPER PROOF RESILIENT SEATED GATE VALVE WITH TAMPER SWITCH
3	STRAINER
4	4" RPZ BACKFLOW PREVENTER - WATTS SERIES 909
5	WATER METER (PER WATER DEPARTMENT)
6	2" TEST OUTLET VALVE
7	PRESSURE REDUCING VALVE
8	AIR GAP (JR SMITH 3955)
9	FUNNEL (JR SMITH 3811)
10	8" DOUBLE CHECK DETECTOR ASSEMBLY-WATTS SERIES 709 DCDA

- GENERAL NOTES - BACKFLOW PREVENTER:**
- LOCATION OF BACKFLOW DEVICES SHALL HAVE ADEQUATE HEAT AND LIGHT.
 - BACKFLOW DEVICES SHALL BE PROTECTED FROM FLOODING.
 - BACKFLOW DEVICES AND WATER METER SHALL BE TESTED AFTER INSTALLATION.
 - OWNER SHALL ARRANGE FOR BACKFLOW DEVICES TO BE TESTED ANNUALLY BY A CERTIFIED TESTER.
 - ANY REVISIONS OR ALTERATION OF THESE PLANS WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE SIGNING ENGINEER IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

- BACKFLOW PREVENTER FILING REQUIREMENTS**
- A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A LICENCED ENGINEER TO FILE ALL APPLICATIONS, PERMITS AND FILING FEES WITH THE AUTHORITIES HAVING JURISDICTION OVER THE WORK.**
- B. THE FOLLOWING LIST SERVES AS THE MINIMUM FILING REQUIREMENTS. FAILURE TO LIST ANY ITEM DOES NOT RELIEVE THE CONTRACTOR FROM FULFILLING THAT REQUIREMENT.**
- CERTIFICATE OF RESOLUTION OF LETTER OF AUTHORIZATION FROM OWNER/USER TO AUTHORIZE LICENCED PROFESSIONAL TO EXECUTE FILING.
 - PREPARE AND SUBMIT FORM DOH-347 WITH PLANS, PROFESSIONAL ENGINEERS REPORT AND SPECIFICATIONS WITH ENGINEER'S SEAL. FILE WITH HEALTH DEPARTMENT AND WATER DEPARTMENT.
 - FILING FEES, PER DEVICE.
 - EVIDENCE OF CONFORMANCE TO NEW YORK STATE SANITARY CODE, PART 5 AND CHAPTER 873 OF THE LAWS OF WESTCHESTER COUNTY.

LEGEND	
---	NEW PIPING, FIXTURES, ETC.
---	COLD WATER PIPING
---	HOT WATER PIPING
---	HOT WATER RETURN PIPING
---	PLUMBING VENT PIPING
---	SAN
---	SANITARY PIPING (UNDERGROUND)
---	PD
---	PUMP DISCHARGE PIPING
---	UPD
---	UNDERGROUND PUMP DISCHARGE PIPING
---	ST
---	STORM PIPING
---	UST
---	STORM PIPING (UNDERGROUND)
---	G
---	UNINTERRUPTIBLE GAS PIPING
---	UG
---	UNINTERRUPTIBLE GAS PIPING (UNDERGROUND)
---	W
---	WATER SERVICE PIPING
---	F
---	FIRE PROTECTION PIPING
---	SP
---	SPRINKLER PIPING
---	SPRINKLER HEAD
---	FLOW DIRECTION WITHIN PIPE
---	CLEANOUT
---	CLEANOUT DECK PLATE
---	SHUT-OFF VALVE
---	COMBINATION BALANCING & SHUT-OFF VALVE
---	OS & Y VALVE
---	OS & Y VALVE WITH TAMPER SWITCH
---	CHECK VALVE
---	GAS SHUT OFF COCK
---	SIDEWALL SPRINKLER HEAD
---	PIPE CONNS. (BOTTOM, TOP 45 OR 90, PIPE UP)
---	PLUMBING FIXTURE IDENTIFICATION
---	BACKFLOW PREVENTER APPURTENANCE IDENTIFICATION
---	PLUMBING CONTRACTOR
---	P.C.
---	GENERAL CONTRACTOR
---	HVAC
---	HVAC CONTRACTOR
---	VTR
---	VENT THRU ROOF
---	FAI
---	FRESH AIR INTAKE
---	FD
---	FLOOR DRAIN
---	PRV
---	PRESSURE REDUCING VALVE
---	CIRCULATOR PUMP IDENTIFICATION
---	SUMP PUMP IDENTIFICATION
---	HOT WATER HEATER IDENTIFICATION
---	POINT OF CONNECTION
---	DRAWING, DETAIL, SECTION NUMBER
---	SECTION IDENTIFICATION

PLUMBING FIXTURE SCHEDULE					
MARK	DESCRIPTION	BRANCH SIZE			
		W	V	H	C
A1	WALL MOUNTED WATER CLOSET (FLUSH VALVE)	4"	2"	-	1"
A2	WALL MOUNTED WATER CLOSET (FLUSH VALVE) (HANDICAPPED)	4"	2"	-	1"
A3	FLOOR MOUNTED WATER CLOSET (FLUSH VALVE) (HANDICAPPED)	4"	2"	-	1"
A4	FLOOR MOUNTED CHILDS WATER CLOSET (FLUSH VALVE)	4"	2"	-	1"
B1	SINGLE SINK UNIT (HANDICAPPED)	1-1/2"	1-1/2"	1/2"	1/2"
B2	DOUBLE SINK UNIT (HANDICAPPED)	1-1/2"	1-1/2"	1/2"	1/2"
B3	TRIPPLE SINK UNIT (HANDICAPPED)	1-1/2"	1-1/2"	1/2"	1/2"
B4	COUNTERTOP CLASSROOM SINK (HANDICAPPED)	1-1/2"	1-1/2"	1/2"	1/2"
B5	MAKER SPACE SINK	1-1/2"	1-1/2"	1/2"	1/2"
B6	HEALTH SUITE SINK (HANDICAPPED)	1-1/2"	1-1/2"	1/2"	1/2"
B7	ART SINK (SINGLE)	1-1/2"	1-1/2"	1/2"	1/2"
B8	FACULTY SINK (HANDICAPPED)	1-1/2"	1-1/2"	1/2"	1/2"
B9	MUSIC ROOM SINK	1-1/2"	1-1/2"	1/2"	1/2"
B10	PRE-K/ K SINK	1-1/2"	1-1/2"	1/2"	1/2"
C	URINAL - WALL MOUNTED	3"	2"	-	1/2"
D1	SINGLE WATER COOLER (HANDICAPPED) W/ BOTTLE FILL	2"	1-1/2"	-	1/2"
D2	DOUBLE WATER COOLER (HANDICAPPED) W/ BOTTLE FILL	2"	1-1/2"	-	1/2"
D3	DOUBLE BOTTLE FILLING STATION	2"	1-1/2"	-	1/2"
E	MOP RECEPTOR	3"	3"	3/4"	3/4"
F	SHOWER	2"	1-1/2"	1/2"	1/2"
G1	LABORATORY COUNTER MOUNTED SINK	2"	1-1/2"	-	1/2"
G2	LABORATORY COUNTER MOUNTED SINK (TEACHER'S)	2"	1-1/2"	1/2"	1/2"
H	EYE WASH	2"	1-1/2"	1/2"	1/2"

BUILDING STRUCTURE FIREPROOFING:

THE BUILDING STRUCTURE WILL BE PROTECTED BY 2" FIREPROOFING THROUGHOUT. THIS CONTRACTOR SHALL ISSUE COORDINATION DRAWINGS ACCORDING TO THE STRICT SCHEDULE OUTLINED IN THE "FRONT END" DOCUMENTS. ALL HANGERS FOR PIPING, CONDUIT, DUCTWORK, EQUIPMENT, ETC. MUST BE IN PLACE BEFORE FIREPROOFING TAKES PLACE. THE INSTALLATION OF HANGERS AFTER THE FACT THAT REQUIRES THE RE-APPLICATION OF FIREPROOFING WILL BE AT THE EXPENSE OF THIS CONTRACTOR.

BASEMENT WATERPROOFING:

REFER TO STRUCTURAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR SLAB/ WALL THICKNESS AND PENETRATION DETAILS. COORDINATE WITH G.C.

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

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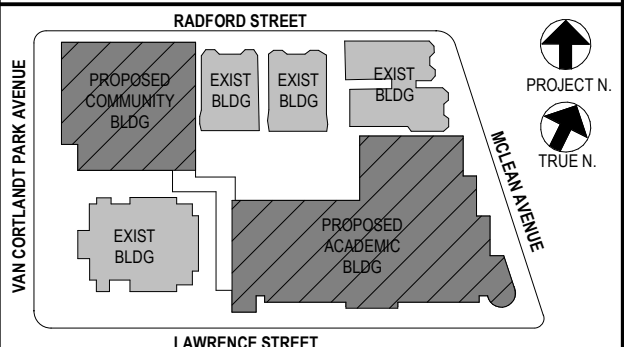
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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN
No	Date	Issue

Sheet Title

Legend, Schedule, Notes, and
Basement Floor Plumbing Plan

Job No. 2019-1026 Date 11/18/20

Scale AS NOTED Drawn / Checked BGA/ BGA

Sheet Number

P200

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

NEW COMMUNITY
SCHOOL AT THE
ST DENIS SITE

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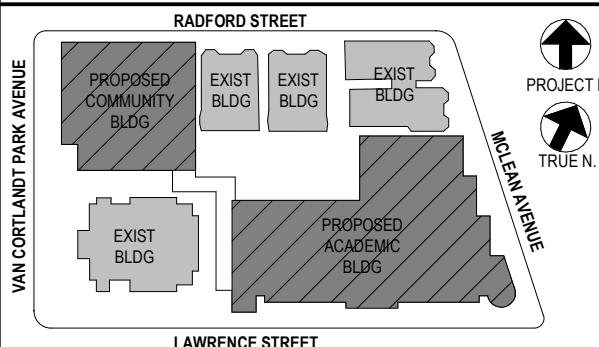
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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Sheet Title

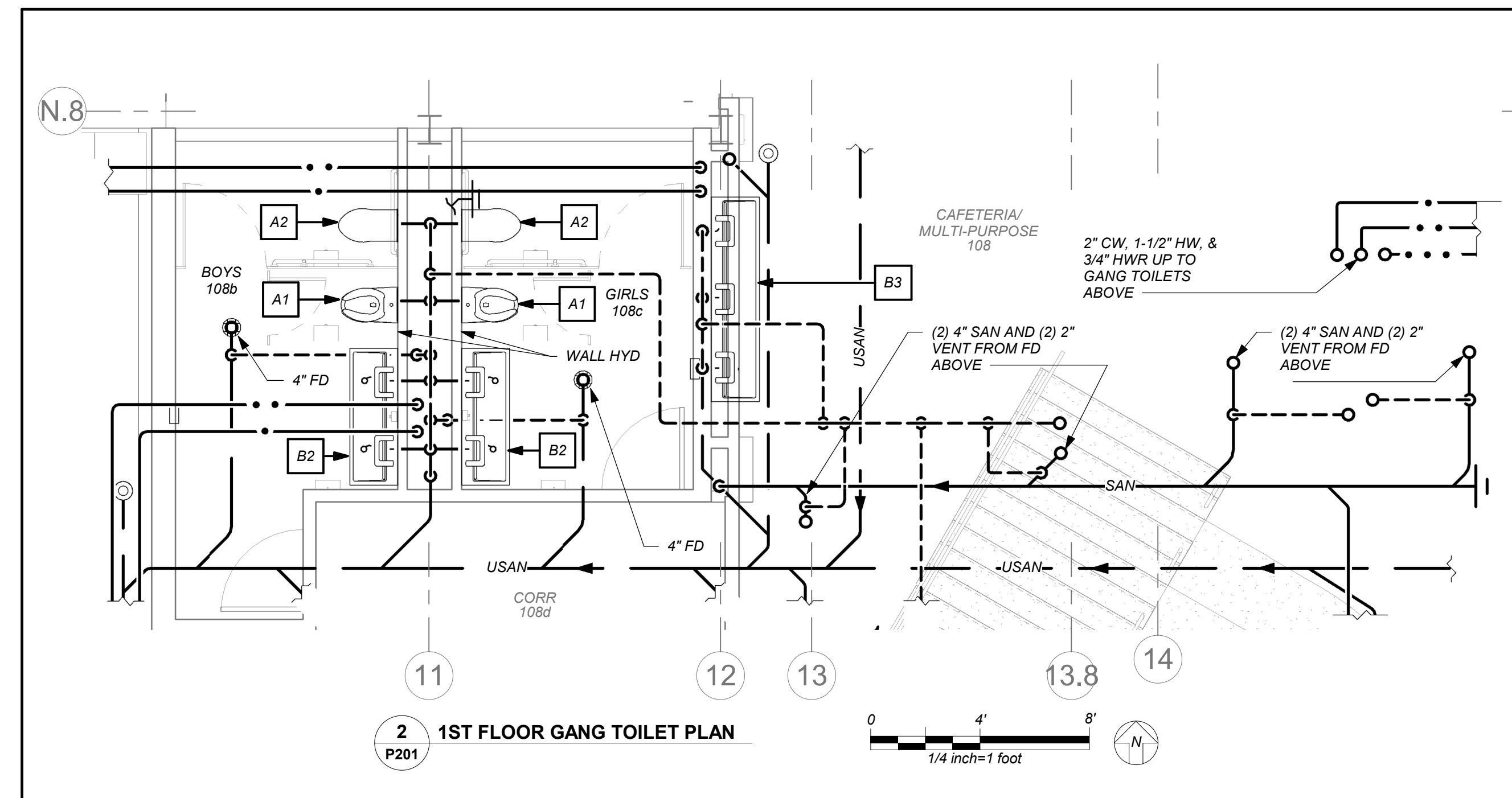
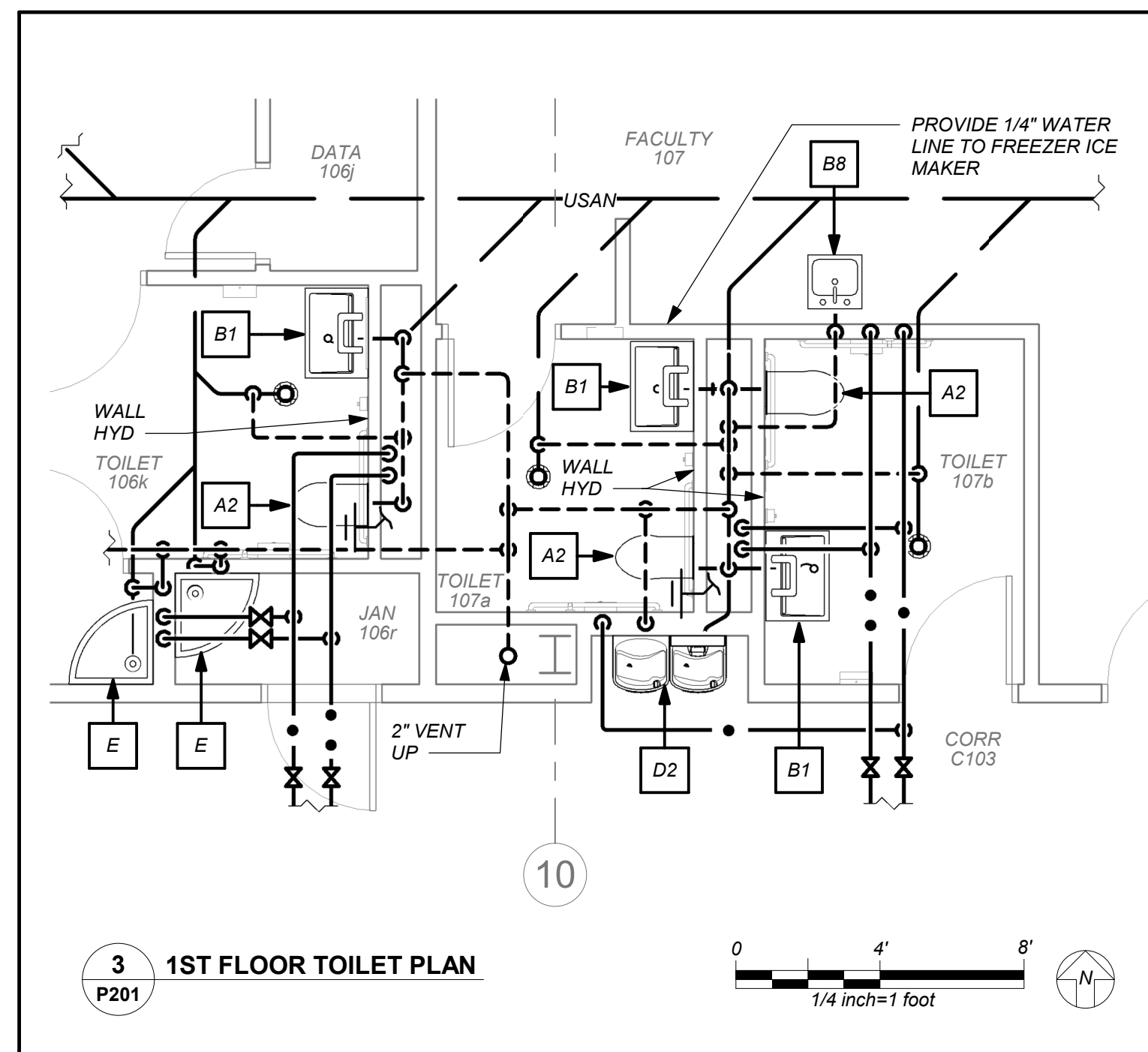
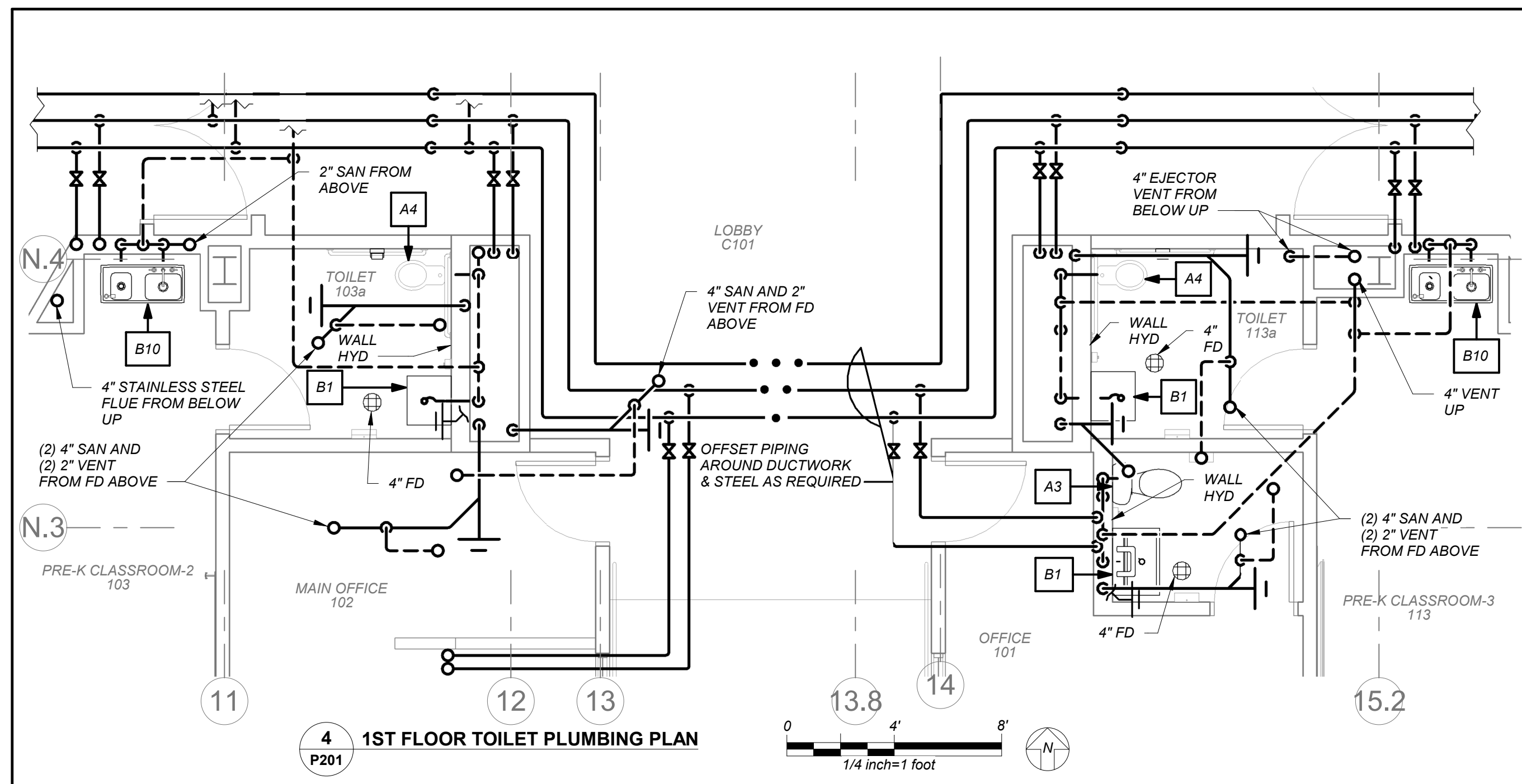
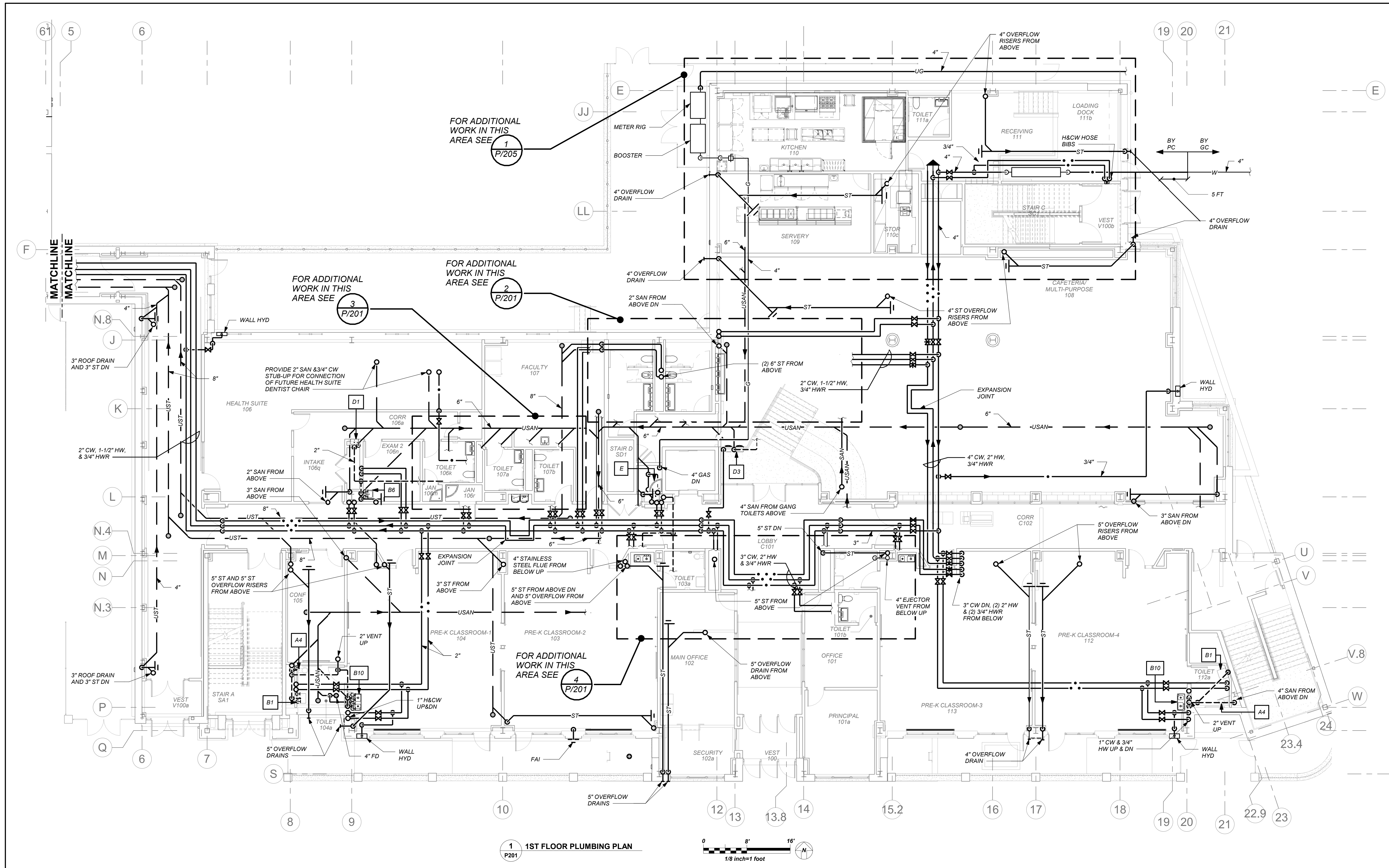
1st Floor Plan

Job No. 2019-1026 Date 11/18/20

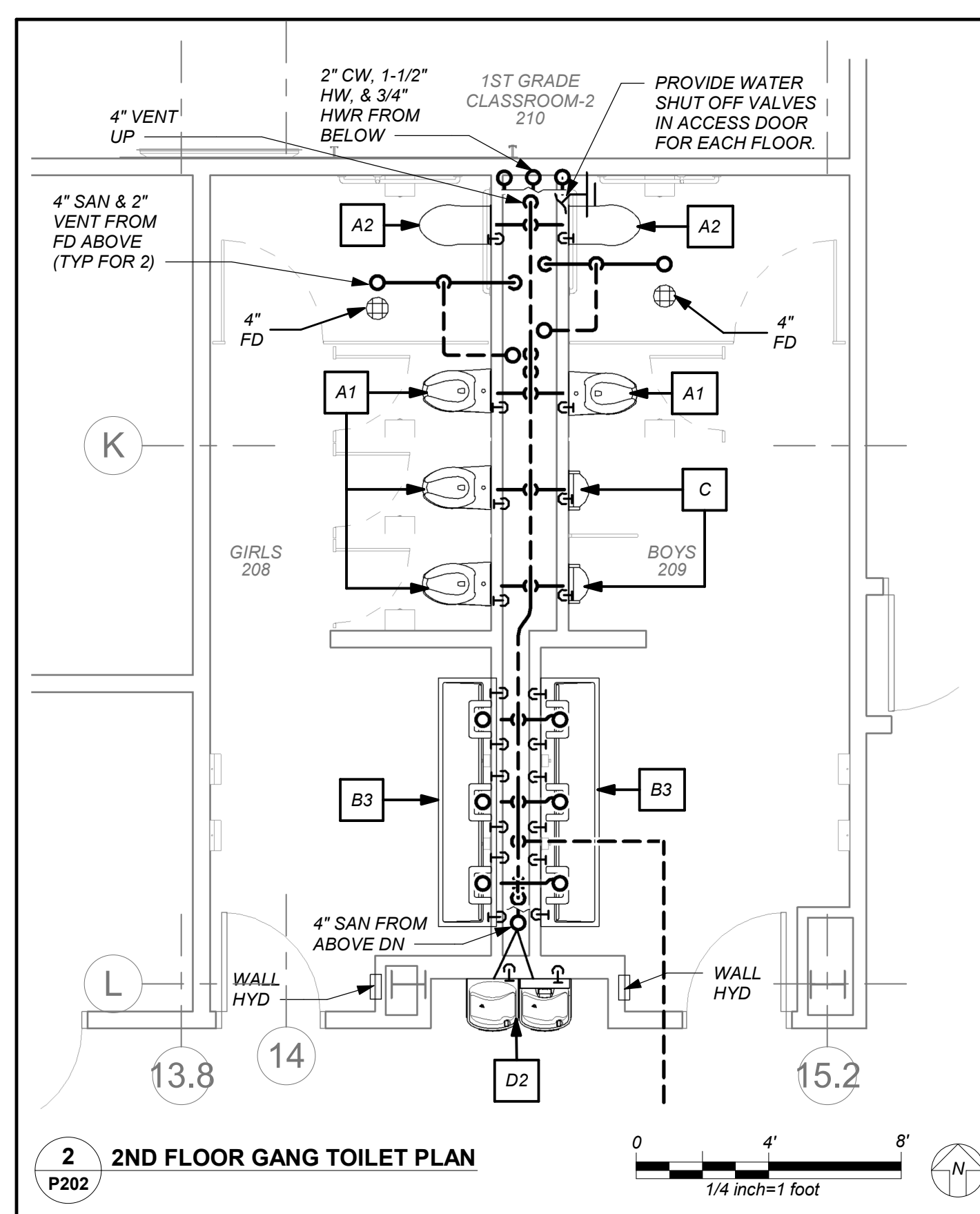
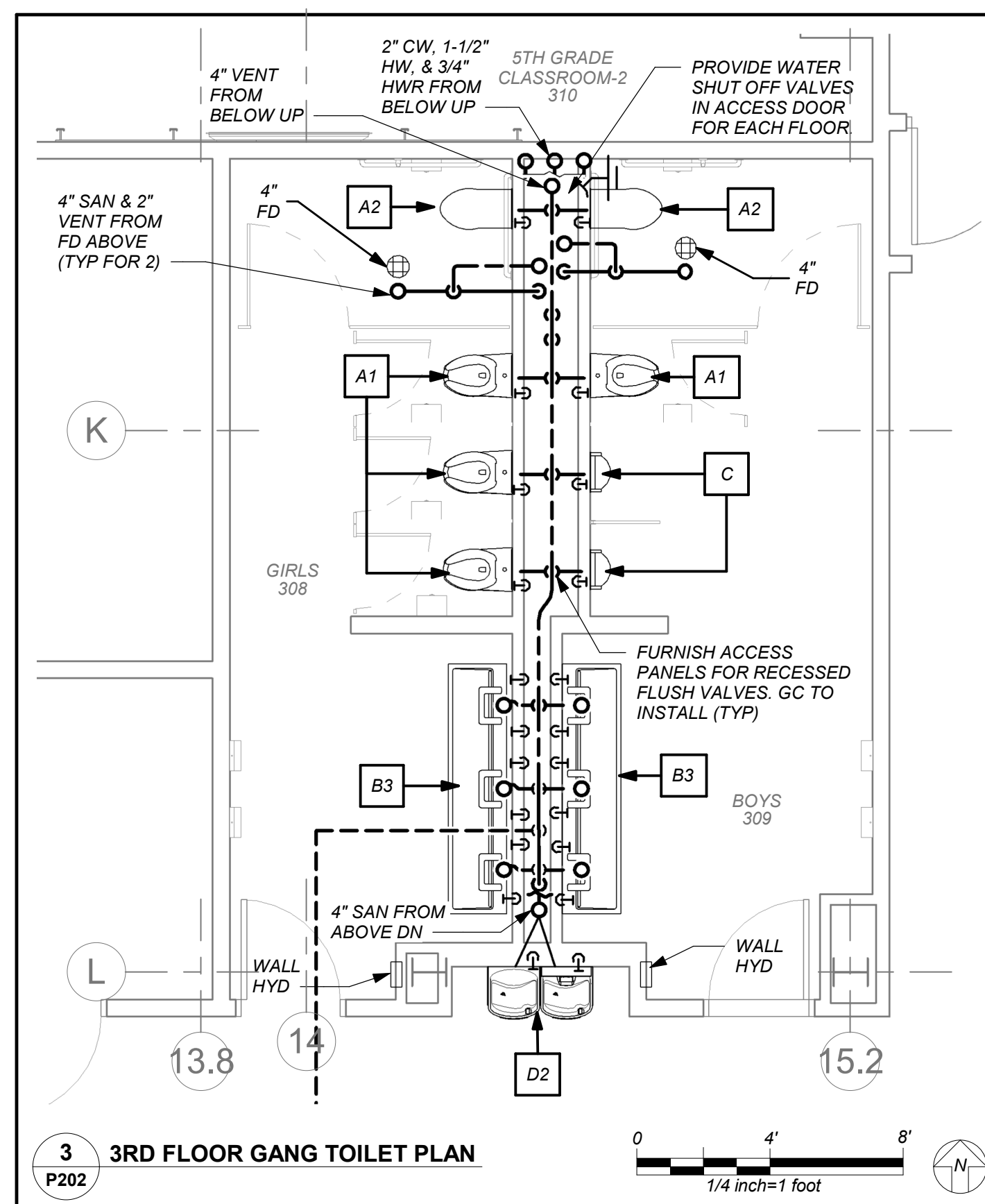
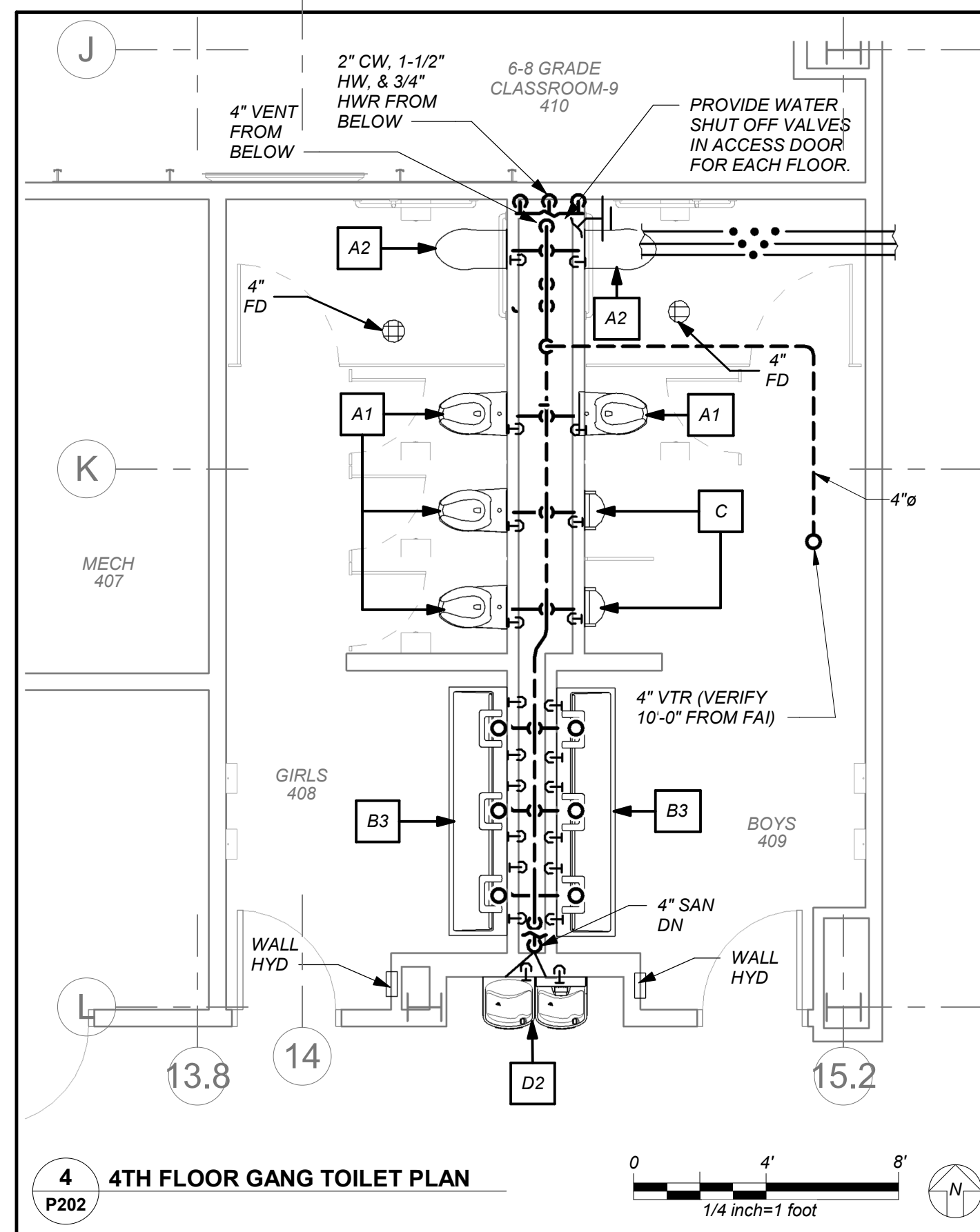
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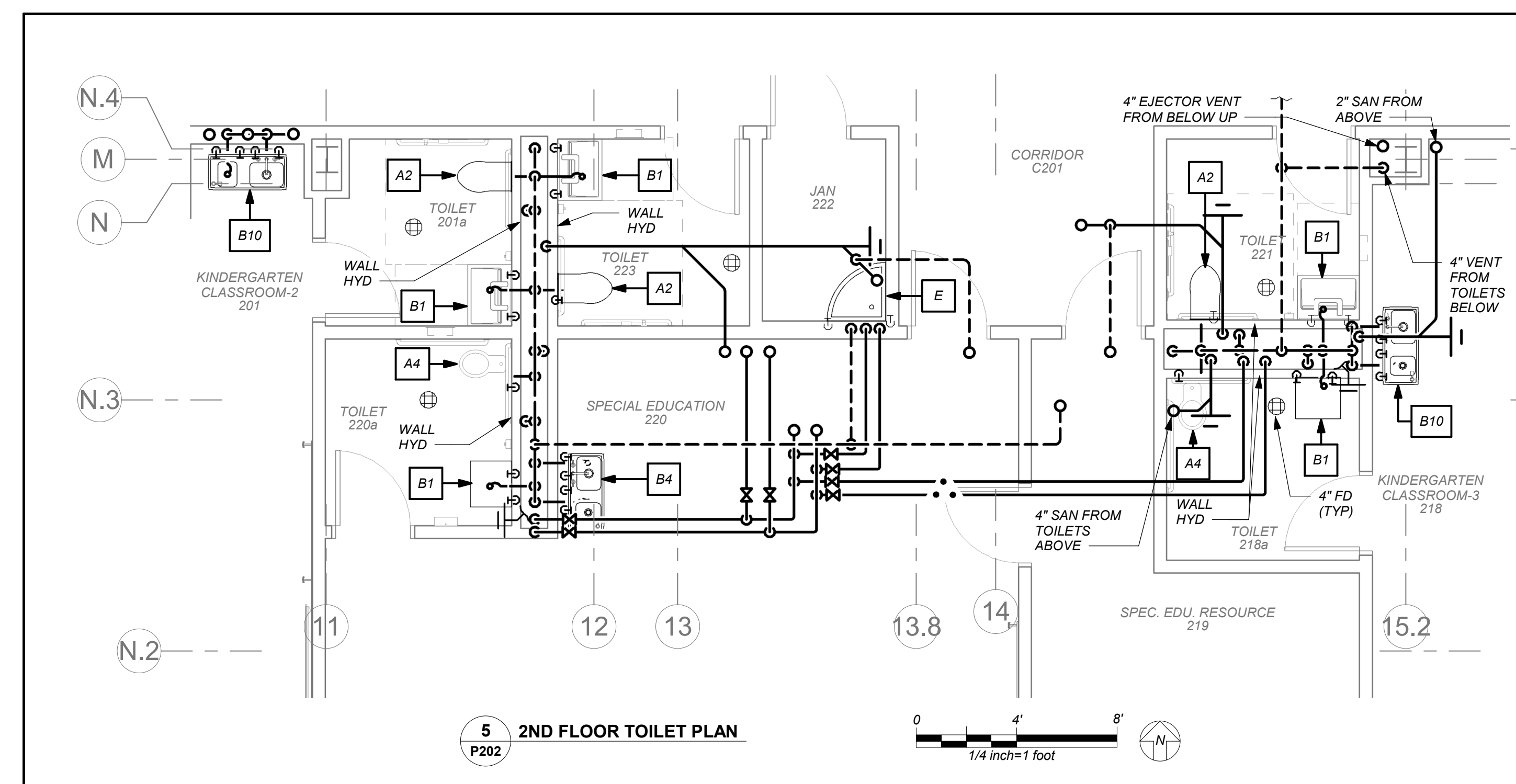
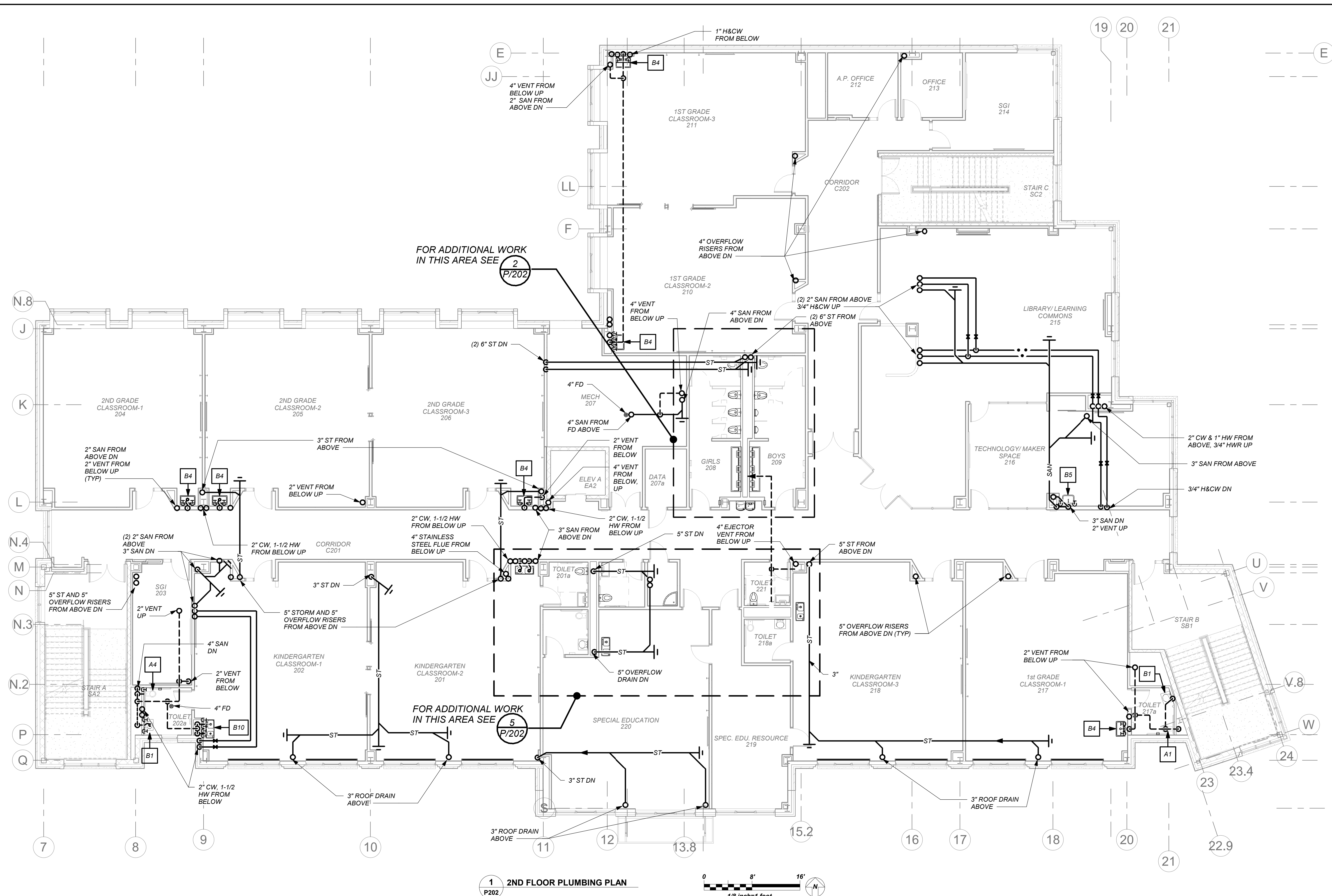
P201



BEFORE FABRICATION THIS CONTRACTOR SHALL
VERIFY ALL MEASUREMENTS AND CONDITIONS ON
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OF ALL OTHER CONTRACTORS



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YONKERS JOINT SCHOOL
CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



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285 MAIN STREET MOUNT KISCO . NEW YORK . 10549
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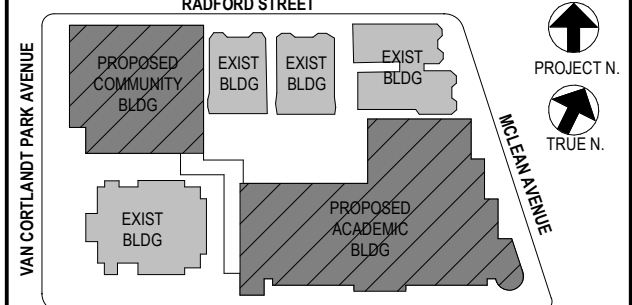
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66-23-00-01-0-346-001

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No.	Date	Issue	

No.	Date	Issue
Sheet Title		

2nd Floor Plan

Job No.	Date
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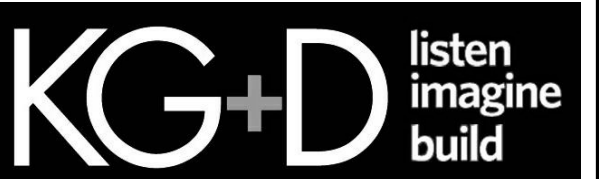
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P202

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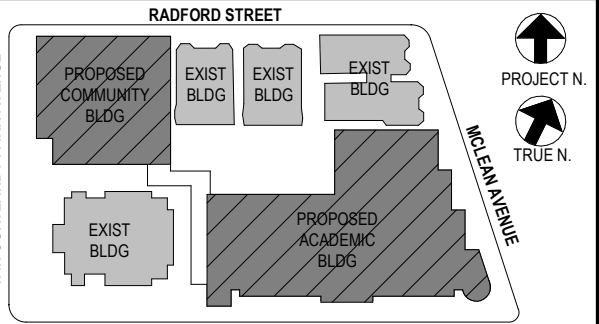
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No. Date Issue

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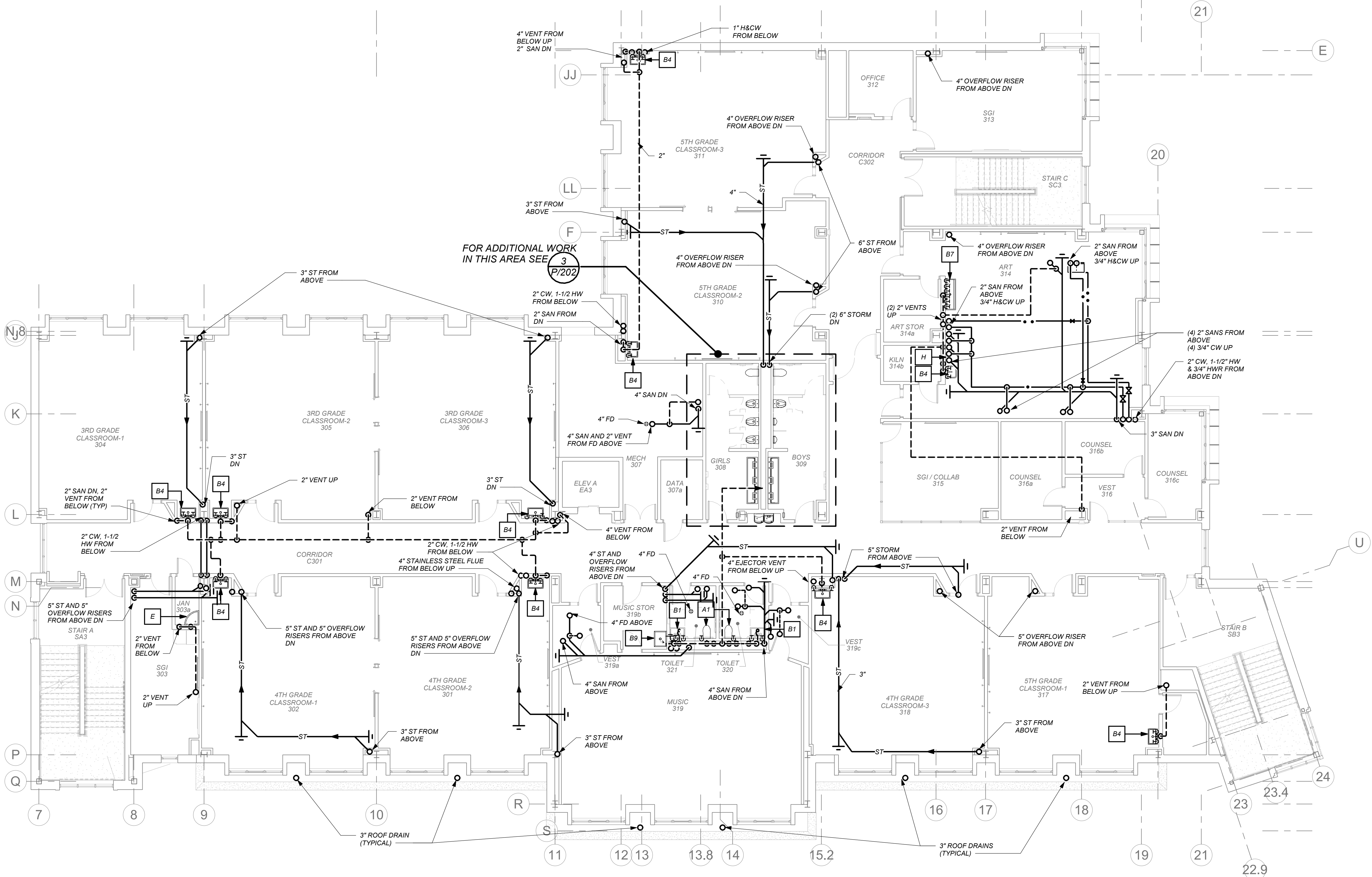
3rd Floor Plan

Job No. 2019-1026 Date 11/18/20

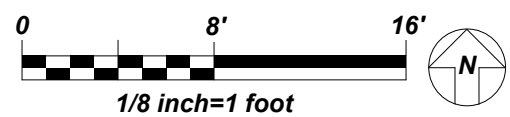
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P203

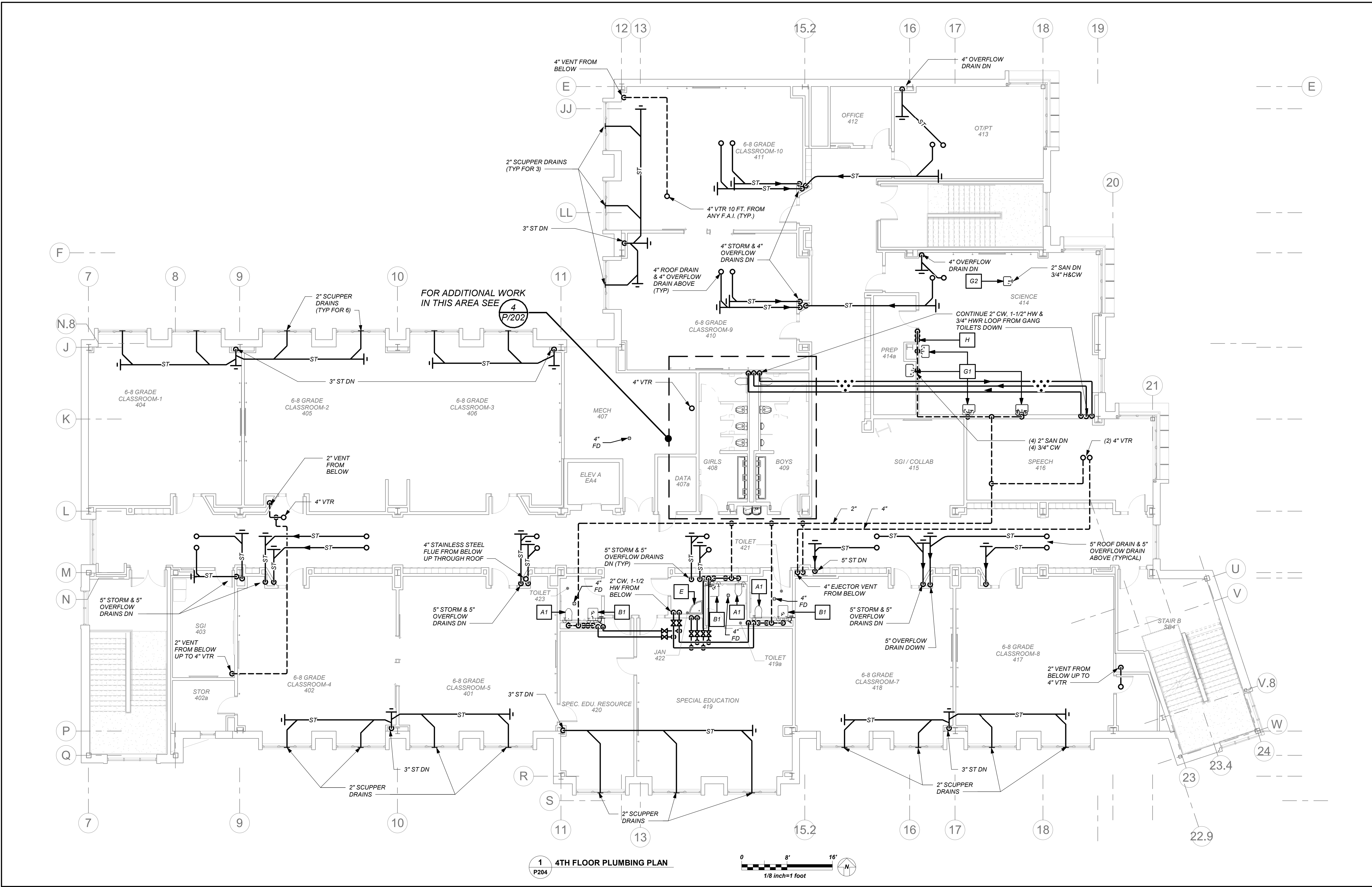


1 3RD FLOOR PLUMBING PLAN
P203



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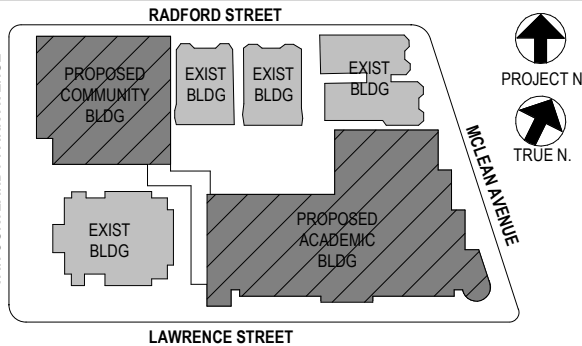


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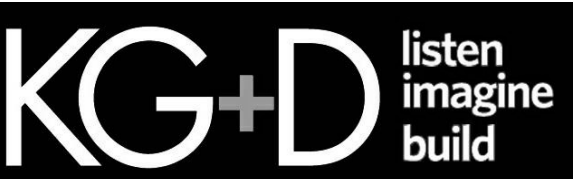
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4th Floor Plan

Job No.	2019-1026	Date	11/18/20
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Sheet Number	P204		

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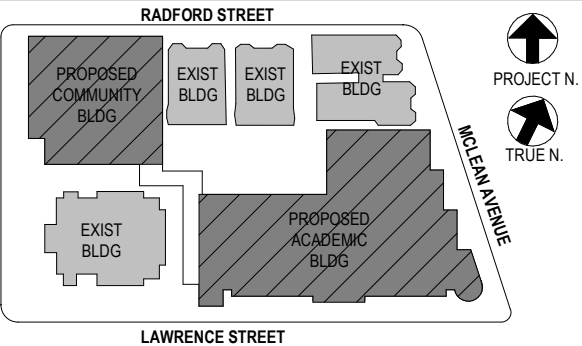


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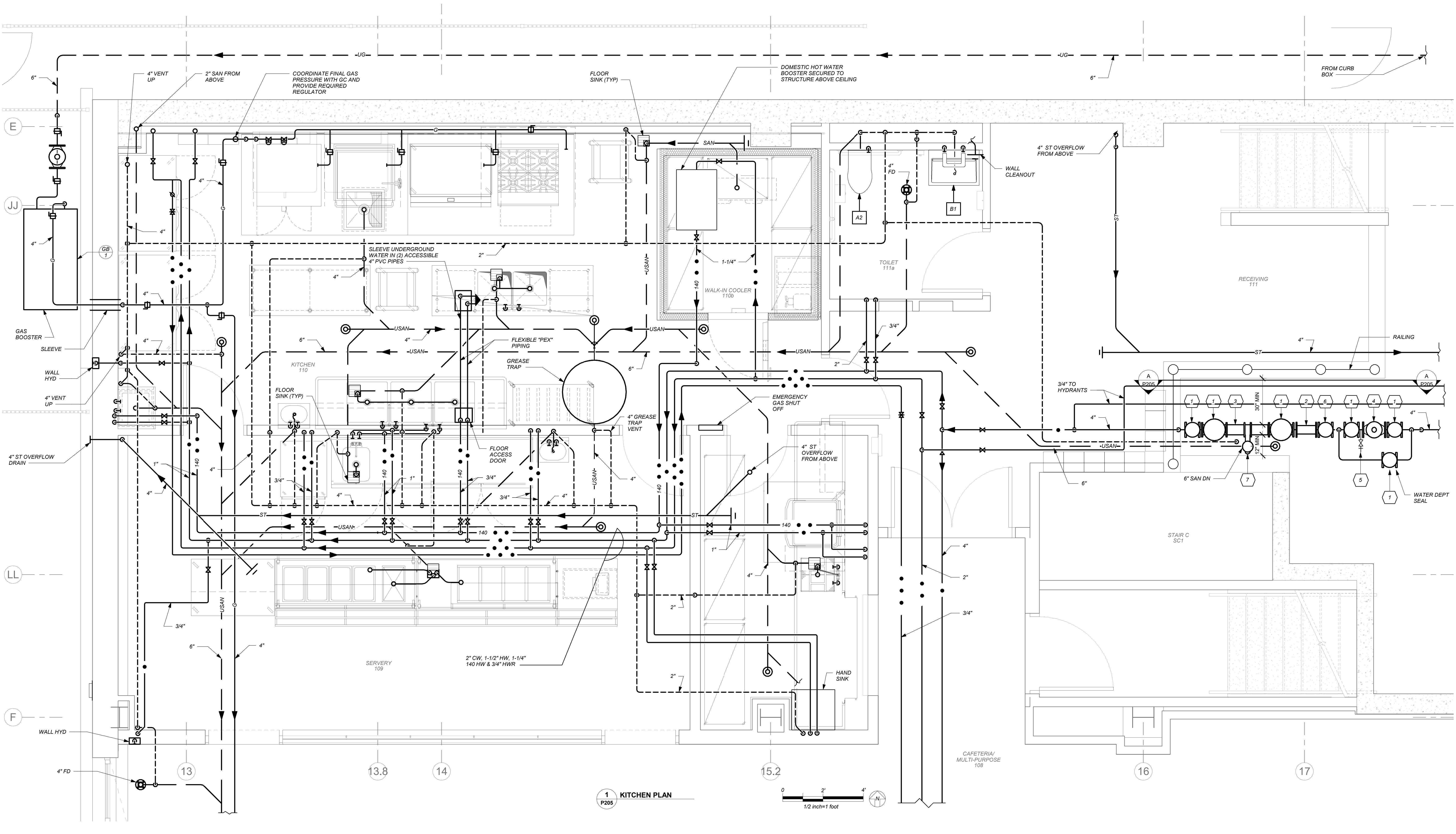
1st Floor Kitchen Plan

Job No. 2019-1026 Date 06/10/21

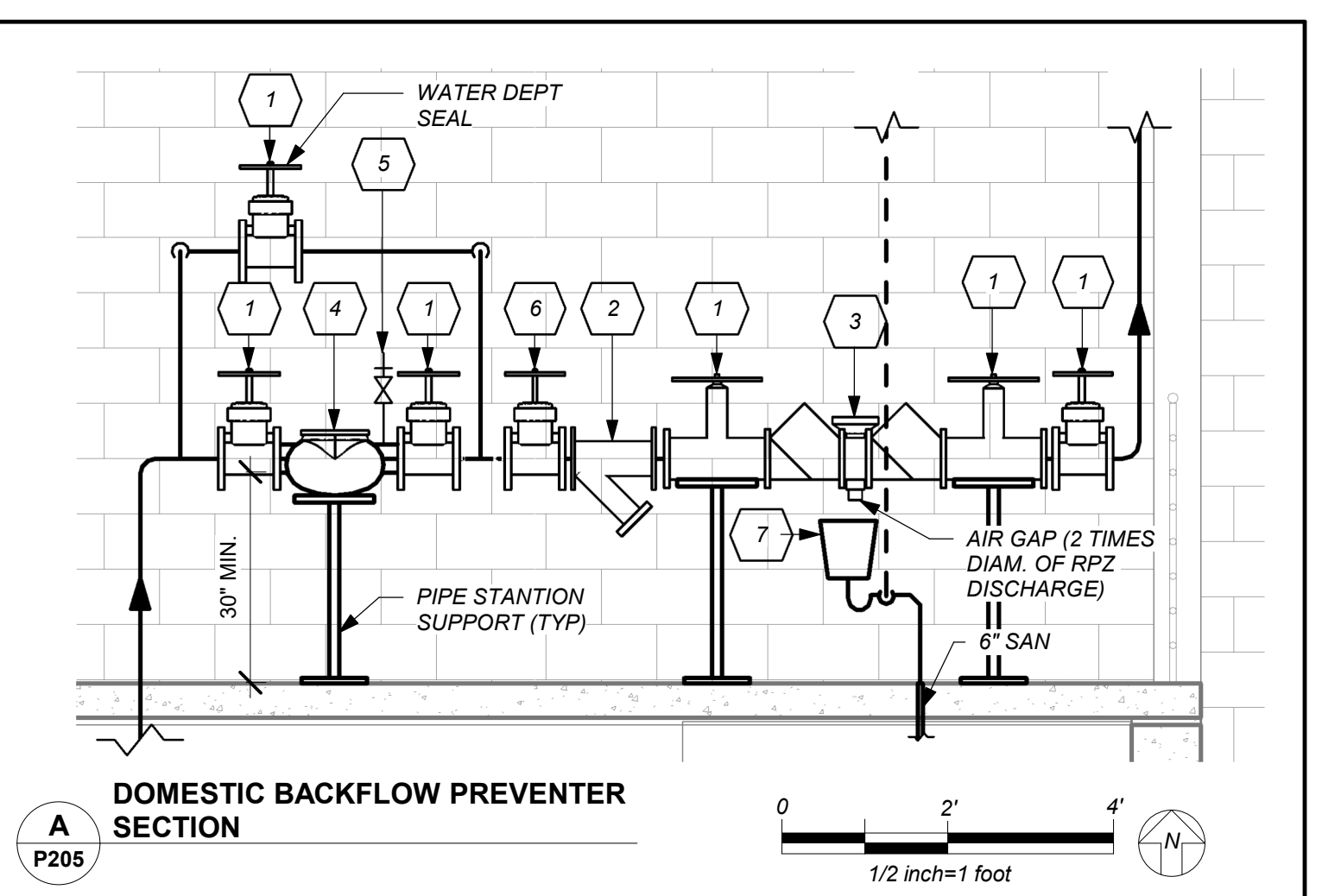
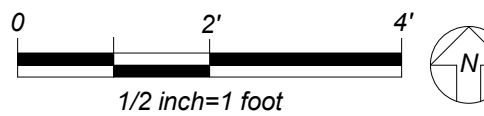
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Sheet Number

P205



1 KITCHEN PLAN
P205



A DOMESTIC BACKFLOW PREVENTER
SECTION
P205

- GENERAL NOTES:**
1. LOCATION OF BACKFLOW DEVICES SHALL HAVE ADEQUATE HEAT AND LIGHT.
 2. BACKFLOW DEVICES SHALL BE PROTECTED FROM FLOODING.
 3. BACKFLOW DEVICES AND WATER METER SHALL BE TESTED AFTER INSTALLATION.
 4. OWNER SHALL ARRANGE FOR BACKFLOW DEVICES TO BE TESTED ANNUALLY BY A CERTIFIED TESTER.
 5. ANY REVISIONS OR ALTERATION OF THESE PLANS WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE SIGNING ENGINEER IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

- BACKFLOW PREVENTER FILING REQUIREMENTS**
- A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A LICENSED ENGINEER TO FILE ALL APPLICATIONS, PERMITS AND FILING FEES WITH THE AUTHORITIES HAVING JURISDICTION OVER THE WORK.
- B. THE FOLLOWING LIST SERVES AS THE MINIMUM FILING REQUIREMENTS. FAILURE TO LIST ANY ITEM DOES NOT RELIEVE THE CONTRACTOR FROM FULFILLING THAT REQUIREMENT.
1. CERTIFICATE OF RESOLUTION OF LETTER OF AUTHORIZATION FROM OWNER/USER TO AUTHORIZE LICENSED PROFESSIONAL TO EXECUTE FILING.
 2. PREPARE AND SUBMIT FORM DOH-347 WITH PLANS, PROFESSIONAL ENGINEERS REPORT AND SPECIFICATIONS WITH ENGINEER'S SEAL. FILE WITH HEALTH DEPARTMENT AND WATER DEPARTMENT.
 3. FILING FEES, PER DEVICE.
 4. EVIDENCE OF CONFORMANCE TO NEW YORK STATE SANITARY CODE, PART 5 AND CHAPTER 873 OF THE LAWS OF WESTCHESTER COUNTY.

LIST OF BACKFLOW PREVENTER APPURTENANCES	
MARK	DESCRIPTION
1	RESILIENT SEATED GATE VALVE
2	TAMPER PROOF RESILIENT SEATED GATE VALVE WITH TAMPER SWITCH
3	STRAINER
4	4" RPZ BACKFLOW PREVENTER - WATTS SERIES LF909
5	WATER METER (PER WATER DEPARTMENT)
6	2" TEST OUTLET VALVE
7	PRESSURE REDUCING VALVE
8	12" FUNNEL (JR SMITH 3811)
9	8" DOUBLE CHECK DETECTOR ASSEMBLY-WATTS SERIES LF709 DCDA

SIMPLEX PACKAGED GAS BOOSTER SYSTEM SCHEDULE								
MARK	LOCATION	BOOSTER INFORMATION AND PERFORMANCE			BOOSTER MOTOR INFORMATION			
		MODEL + FEATURES	MAX FLOW CFH	ADDED BOOST INCHES WC	RPM	HP	VOLTS	PHASE CYCLES
GB 1	OUTDOOR	E101-PHC-S-NYC-PCFM-REG-GLD-TRNS- COMPLETE WITH PRESSURE COMPENSATED FLOW MODULE, MODE R CONTROLS, OUTLET PRESSURE REGULATOR, AUTO ON-OFF BASE ON BUILDING DEMAND, TOTAL VENTLESS SYSTEM 2" INLET/OUTLET, OUTDOOR STEEL GAS LEAK DETECTION WITH SAFETY SHUT OFF VALVE, TRANSCLOSURE WITH LOCKING DOORS, ALL PER WRITTEN SPECIFICATIONS	1,100	10	3450	1/4	120	1 60

REFER TO FOOD SERVICE DRAWINGS FOR ADDITIONAL PLUMBING WORK UNDER THIS CONTRACT.

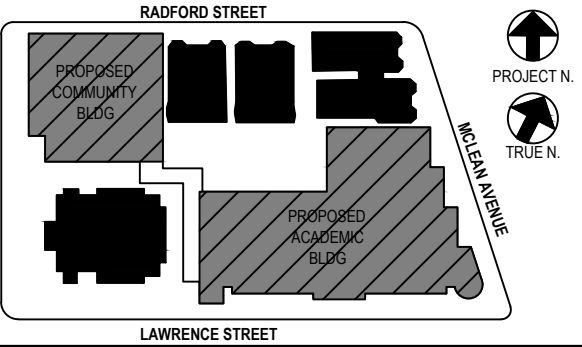
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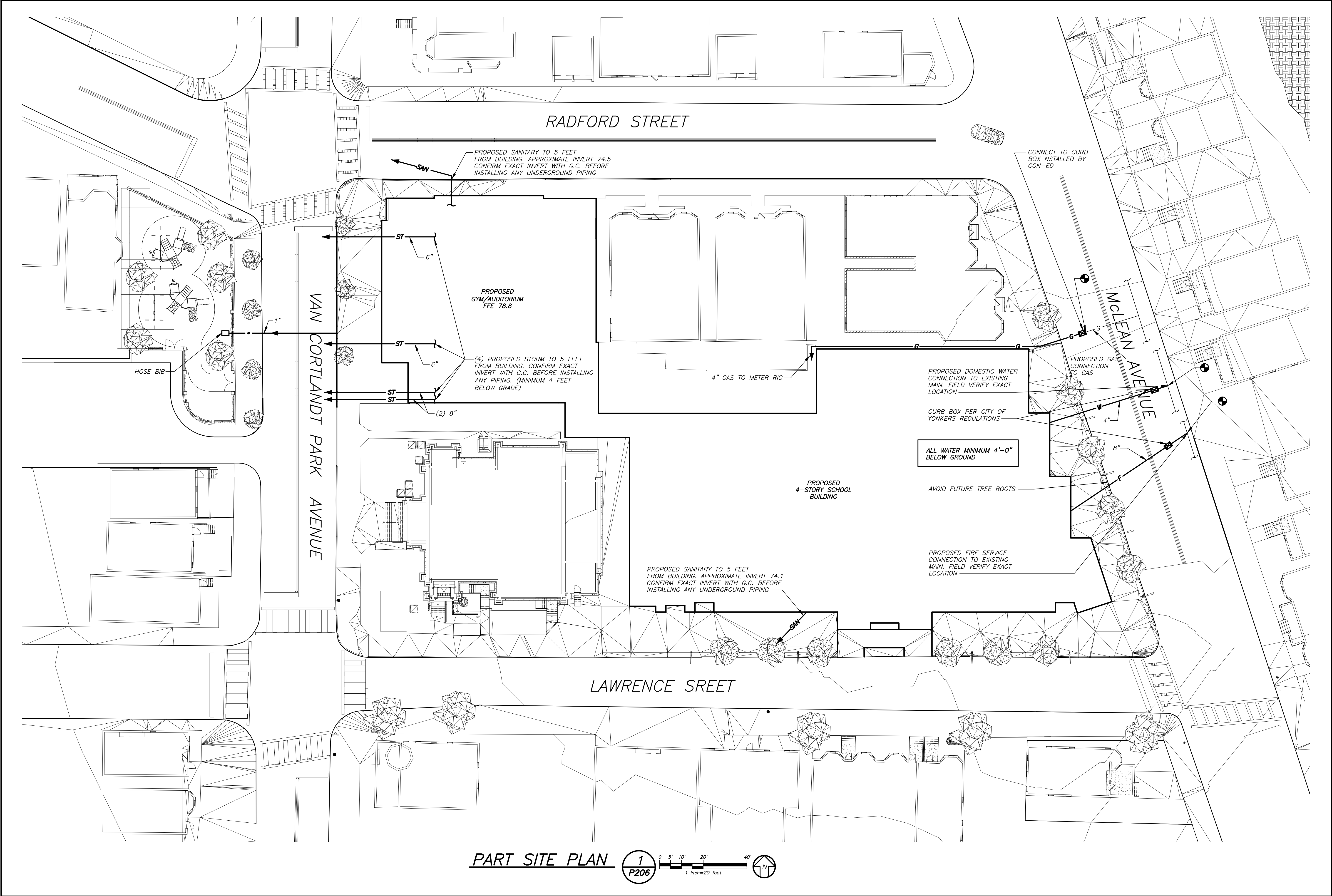
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SITE PLAN

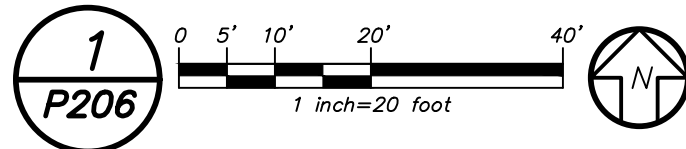
Job No.	Date
2019-1026	11/18/20
Scale	Drawn / Checked
AS NOTED	BGA/BGA

Sheet Number

P206



PART SITE PLAN



THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS FROM THE CITY OF YONKERS. INSTALL GAS AND WATER IN ACCORDANCE WITH ALL UTILITY COMPANY AND CITY REQUIREMENTS AND REGULATIONS. SEE CON-ED YELLOW BOOK. SEE CITY OF YONKERS "ENGINEERING FORMS" FOR METER, TAP, CONNECTIONS AND MISCELLANEOUS, ETC. FOR MORE INFORMATION. SEE FRONT END SPECIFICATION FOR SEPARATION OF CONTRACTOR'S RESPONSIBILITIES.

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Yonkers, NY 10705

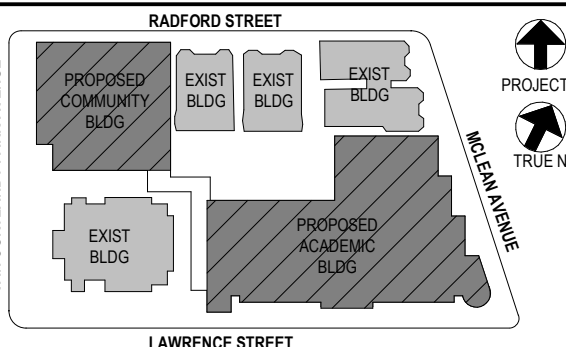


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1	08/31/2020	SCHEMATIC DESIGN

No. Date Issue

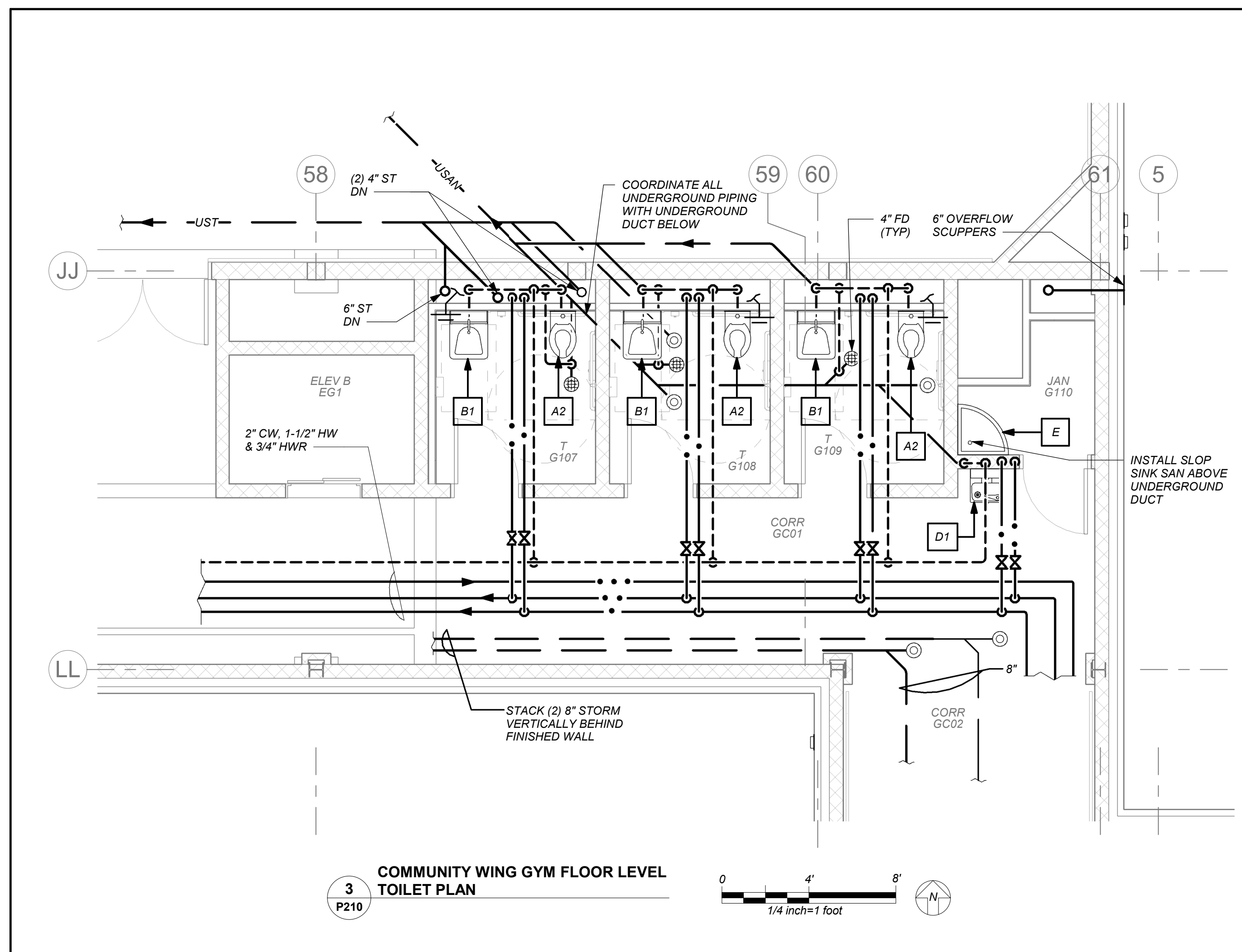
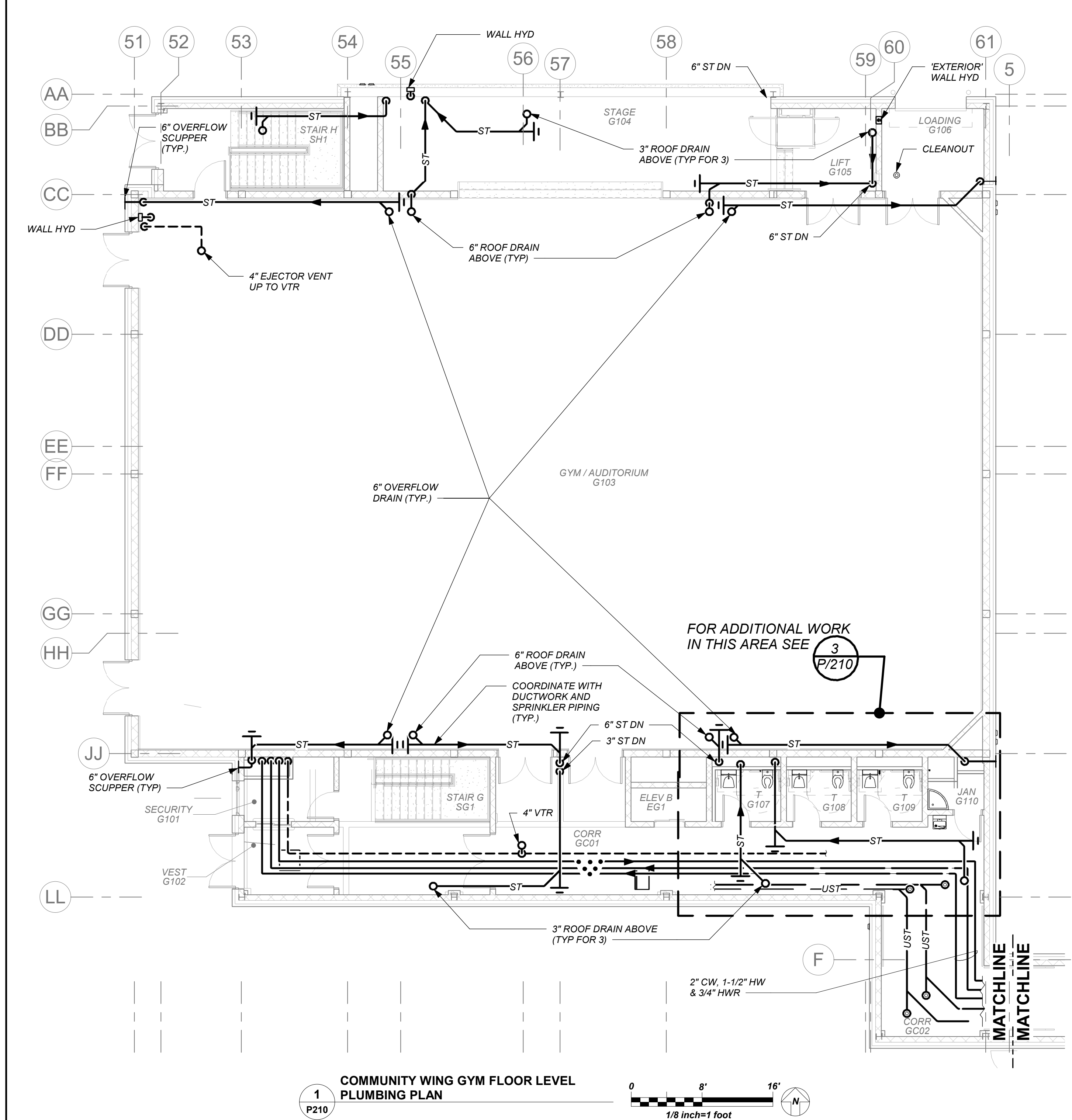
Sheet Title

Community Wing Gym Floor Plans

Job No.	2019-1026	Date	11/18/20
Scale	AS NOTED	Drawn / Checked	BGA /BGA

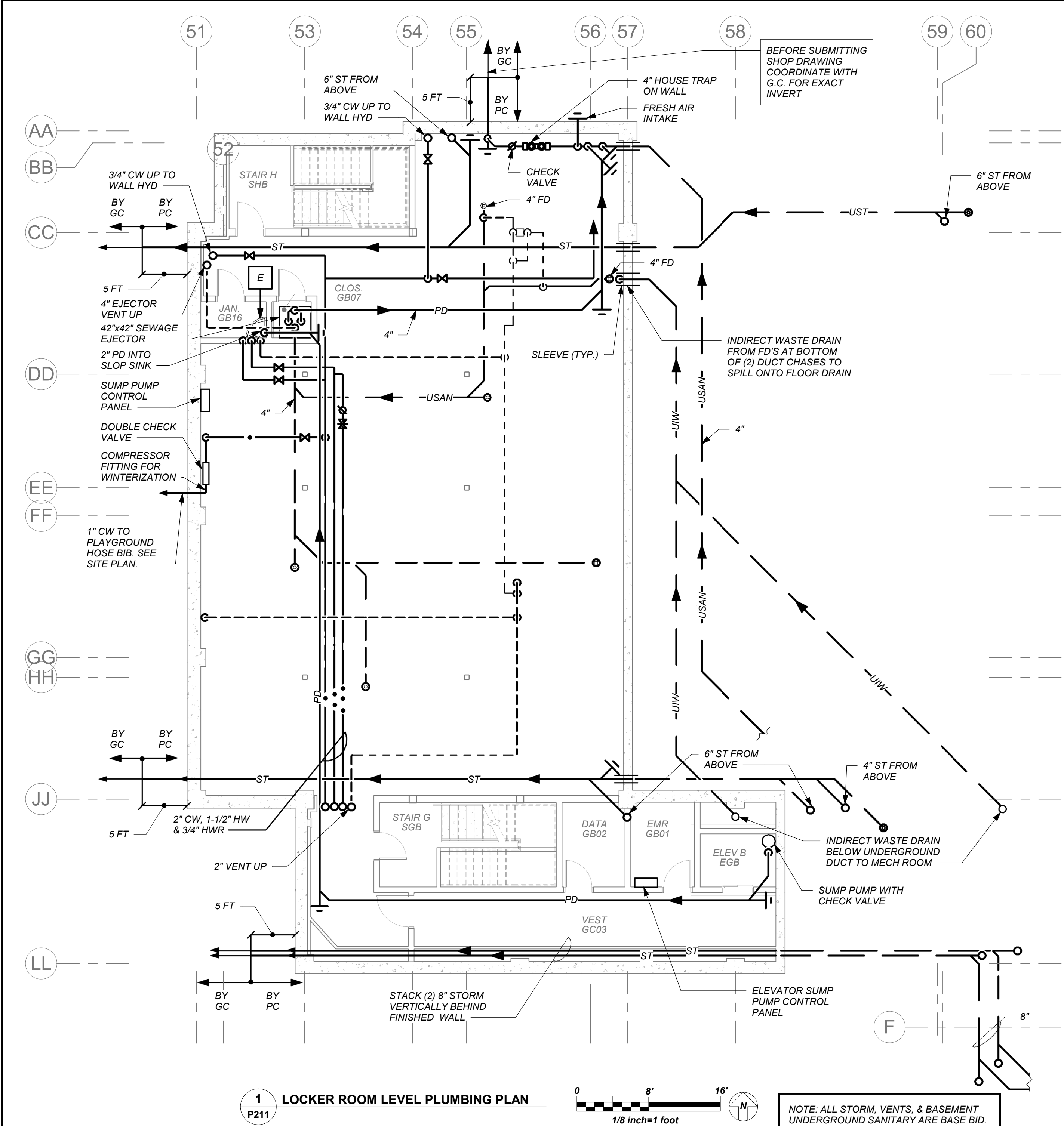
Sheet Number

P210



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BEFORE FABRICATION THIS CONTRACTOR SHALL
VERIFY ALL MEASUREMENTS AND CONDITIONS ON
JOB AND COORDINATE HIS WORK WITH THE WORK
OF ALL OTHER CONTRACTORS



NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

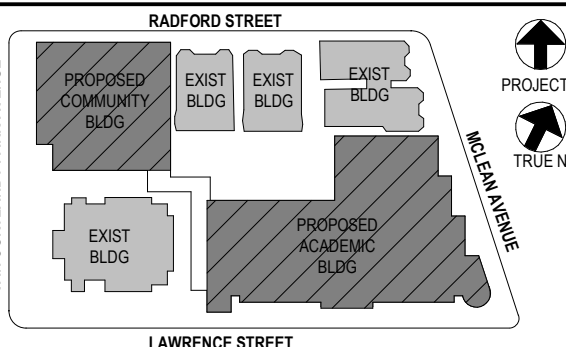
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121 McLean Avenue
Yonkers, NY 10705



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3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

No. Date Issue

Sheet Title

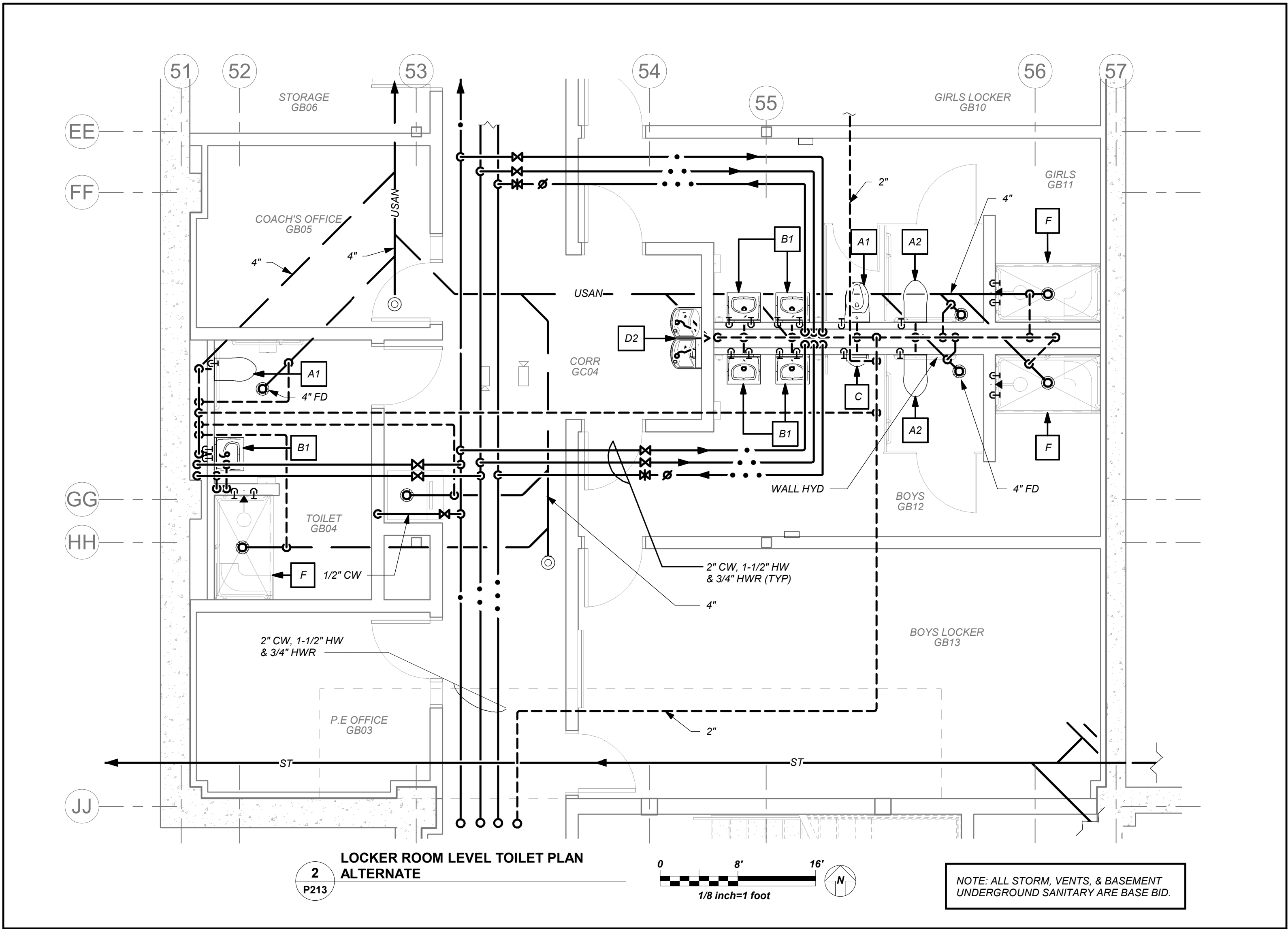
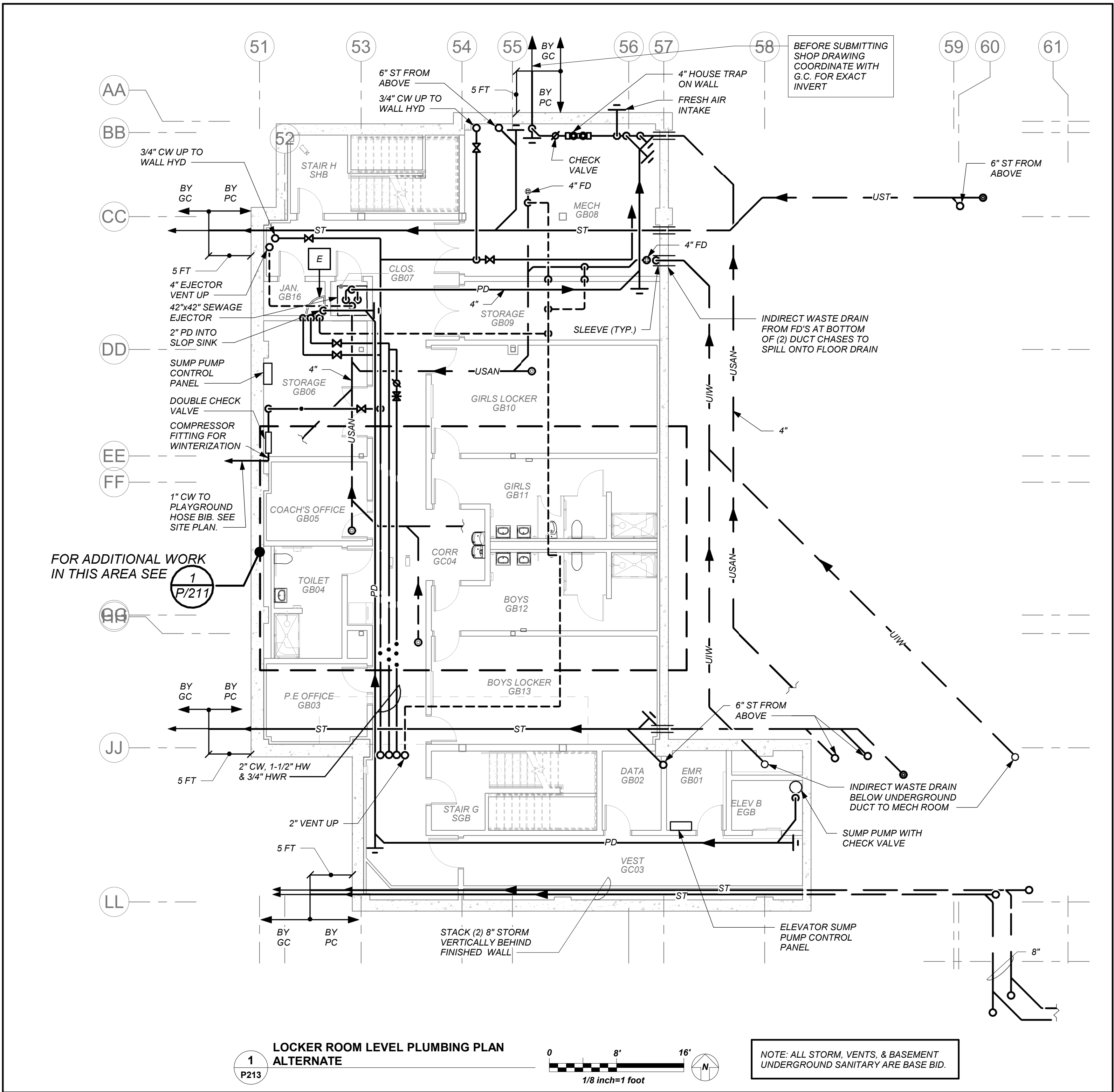
Community Wing Basement Floor Plan

Job No.	2019-1026	Date	10/20/21
Scale	AS NOTED	Drawn / Checked	BGA /BGA

Sheet Number

P211

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NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

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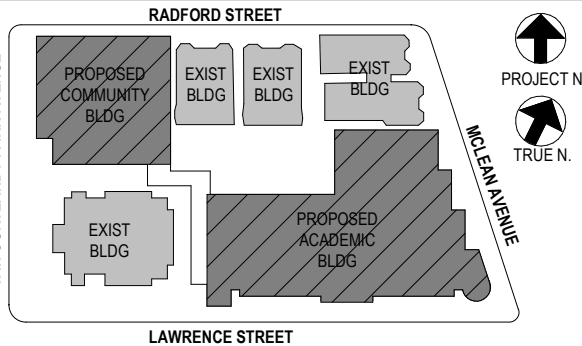
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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

No. Date Issue

Sheet Title

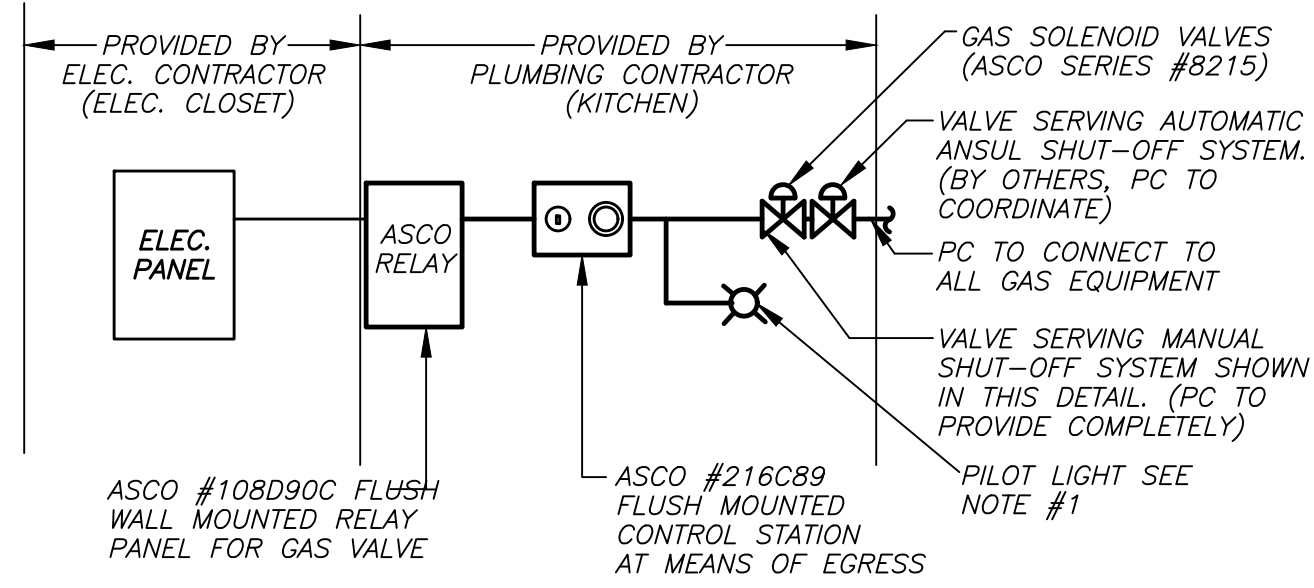
Community Wing Basement - Add Alt -
Gym Basement Fit-Out Plan

Job No. 2019-1026 Date 11/03/21

Scale AS NOTED Drawn / Checked BGA /BGA

Sheet Number

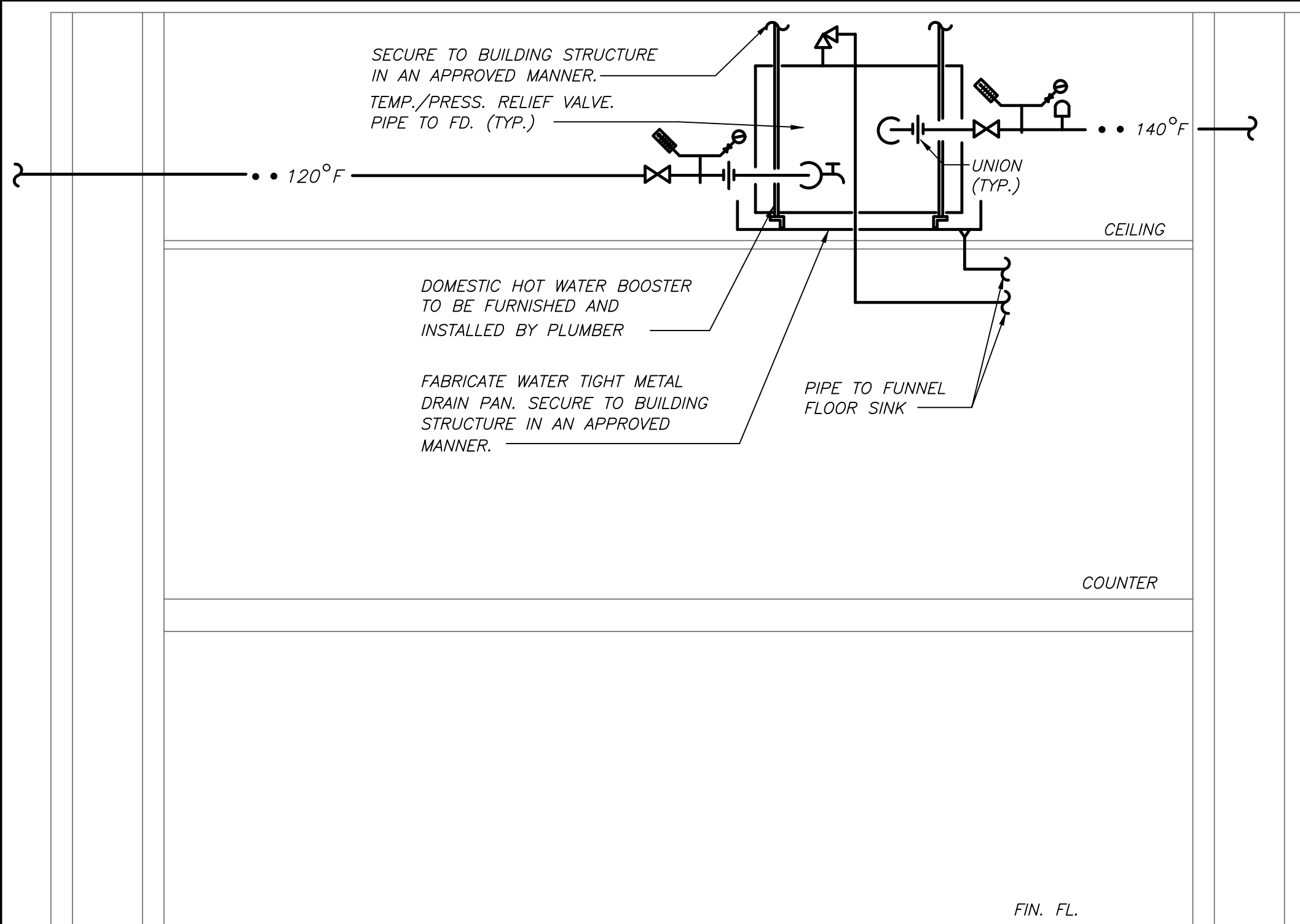
P213



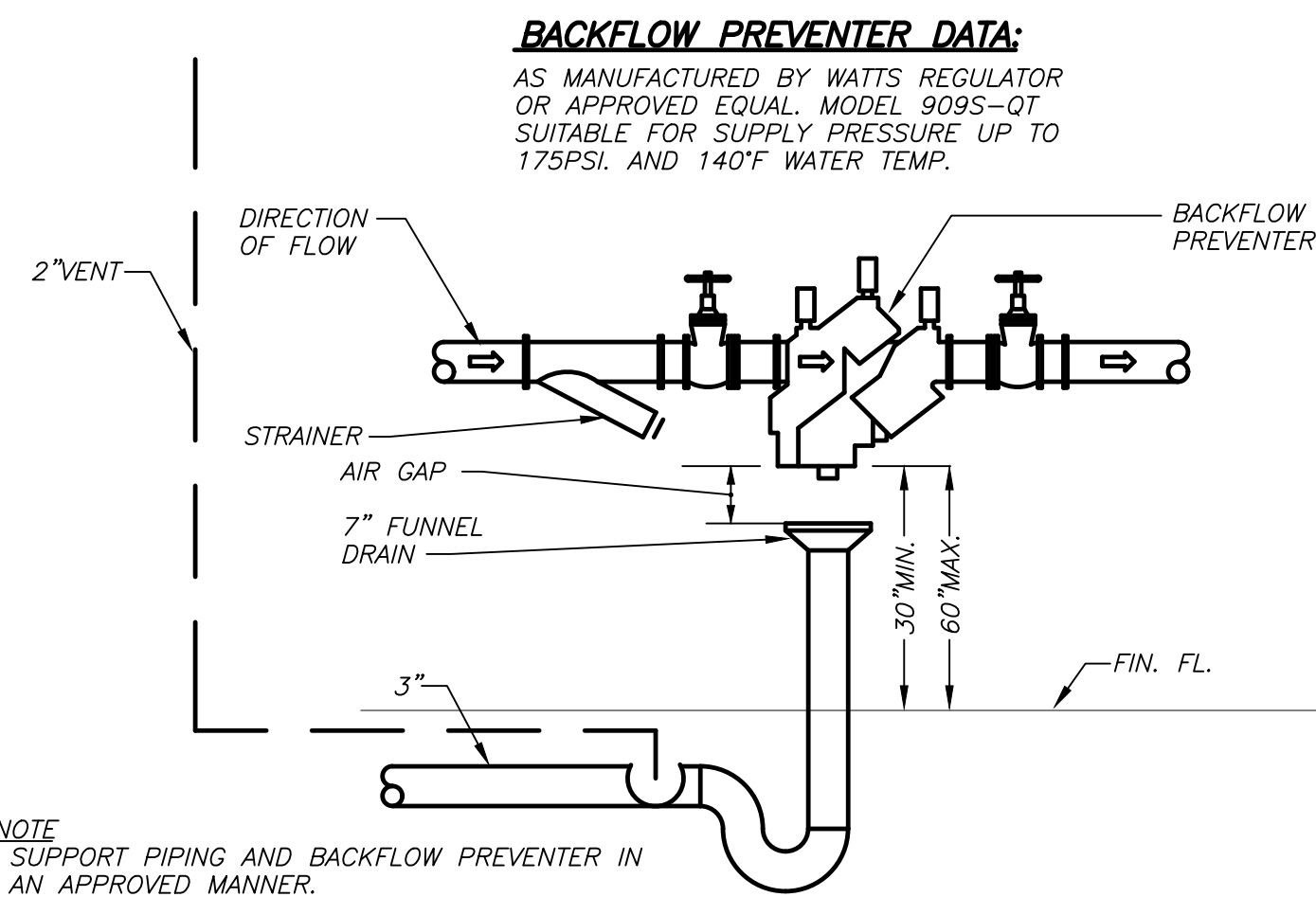
NOTES:

- PILOT LIGHT SHALL BE WALL MOUNTED ADJACENT TO CONTROL STATION. IT SHALL BE BE SIMILAR TO ABB #CBK-KLRL1 AND BLUE IN COLOR. PROVIDE STAINLESS STEEL COVER PLATE WITH PERMANENT TYPE-WRITTEN LABEL STATING "KITCHEN GAS".
- OPERATION OF CONTROL STATION SHALL BE AS FOLLOWS:
 - TURNING OF KEY SWITCH IN ONE DIRECTION SHALL ENERGIZE POWER TO GAS VALVE IN KITCHEN AND ILLUMINATE REMOTE WALL MOUNTED PILOT LIGHT. TURNING OF SWITCH IN OPPOSITE DIRECTION SHALL DE-ENERGIZE POWER AND CLOSE THE GAS VALVE AND TURN PILOT LIGHT OFF.
 - OPERATION OF PUSH BUTTON AT CONTROL STATION SHALL DE-ENERGIZE POWER AND CLOSE GAS VALVE AND TURN PILOT LIGHT OFF. POWER TO VALVE SHALL NOT BE RESTORED UNTIL KEY SWITCH IS ACTIVATED AGAIN.
- THIS ARRANGEMENT PROVIDES ADDITIONAL SAFETY IN THE EVENT OF A FIRE. AUTOMATIC GAS SHUT OFF (BY OTHERS) IS ALSO REQUIRED WHEN HOOD FIRE SUPPRESSION SYSTEM IS ACTIVATED.

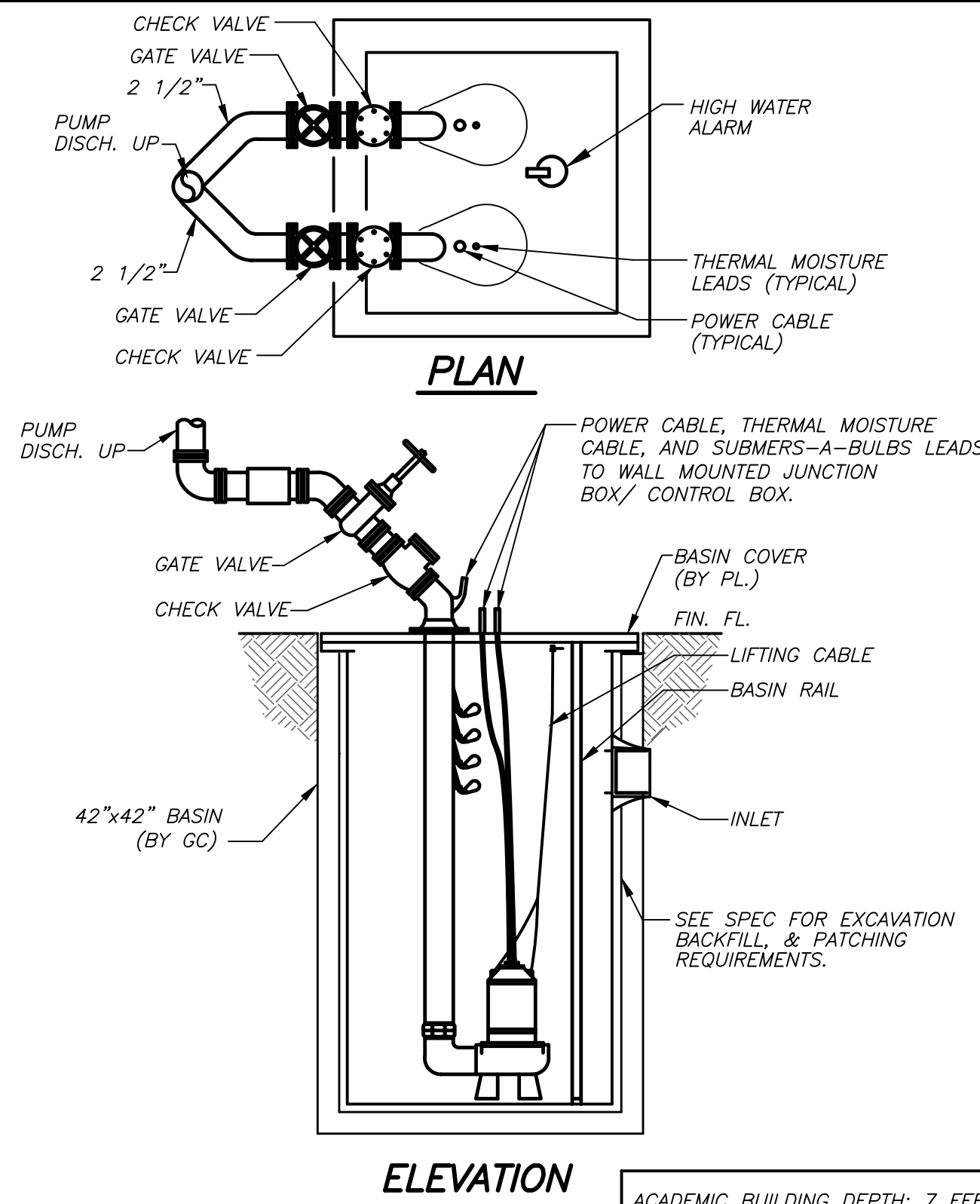
KITCHEN GAS VALVE WIRING AND CONTROL DETAIL **6** **P300** NO SCALE



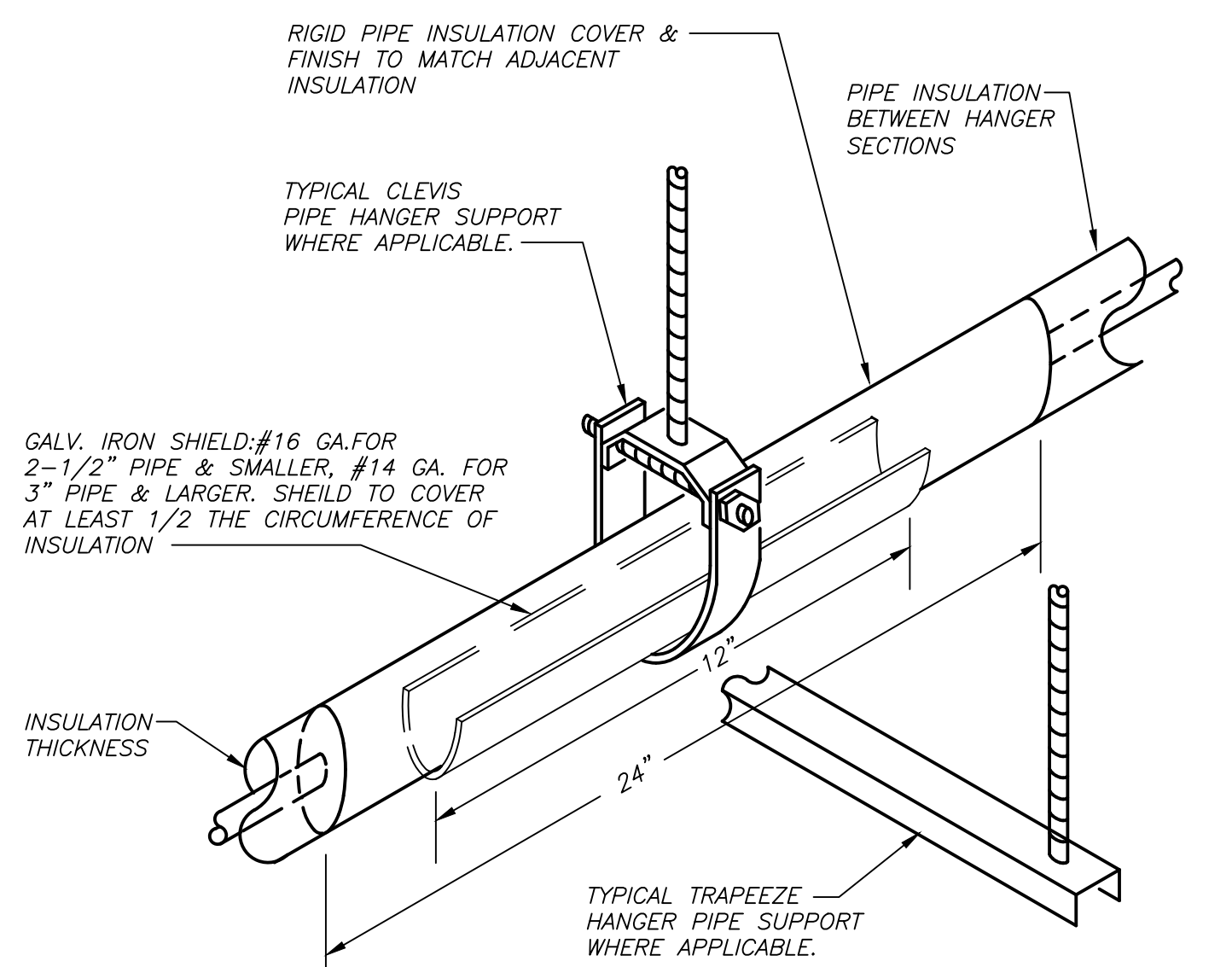
DOMESTIC HOT WATER BOOSTER HEATER SCHEMATIC HOOK-UP DETAIL **7** **P300** NO SCALE



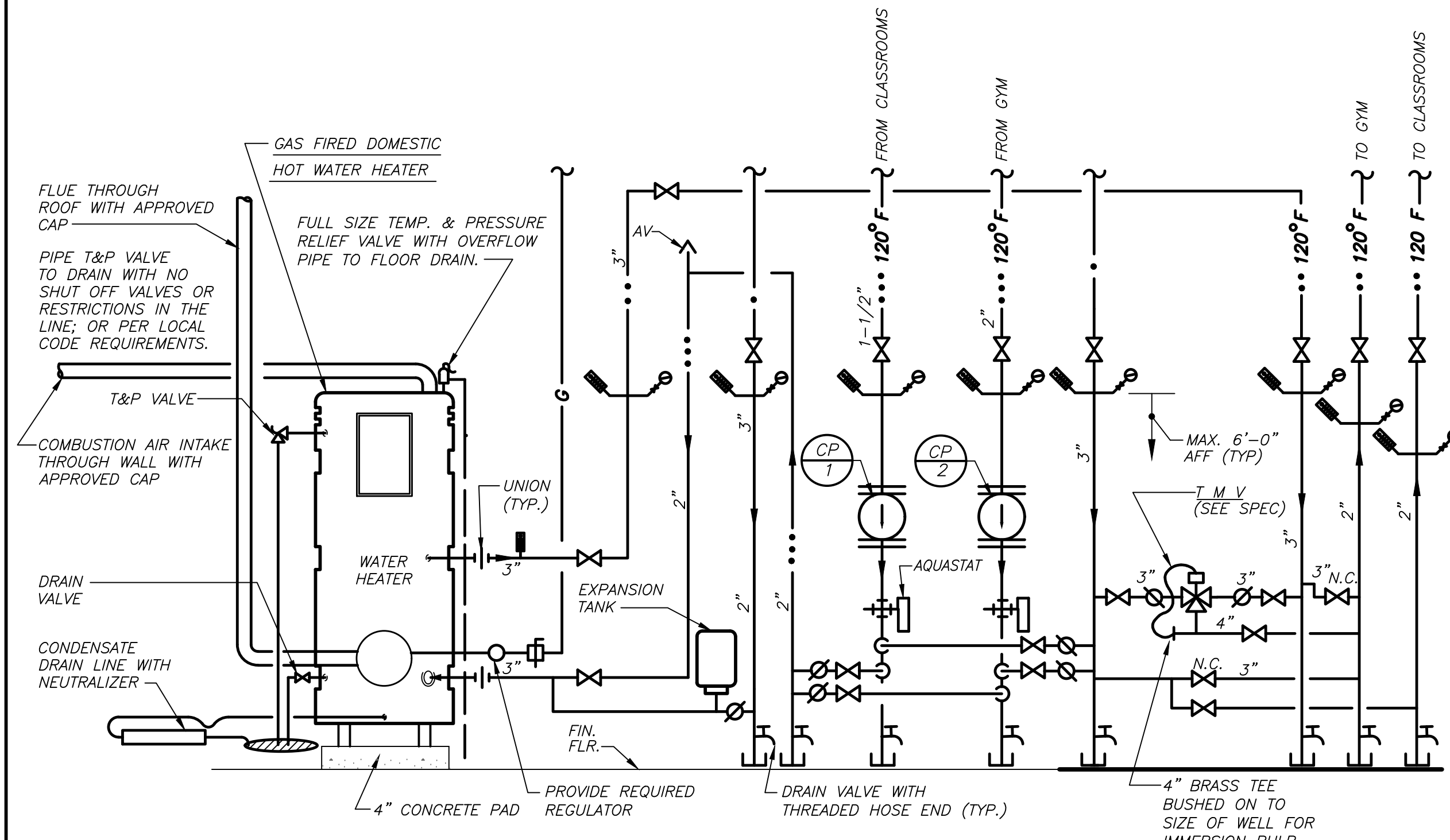
HEAT PUMP BACKFLOW PREVENTER DETAIL **3** **P300** NO SCALE



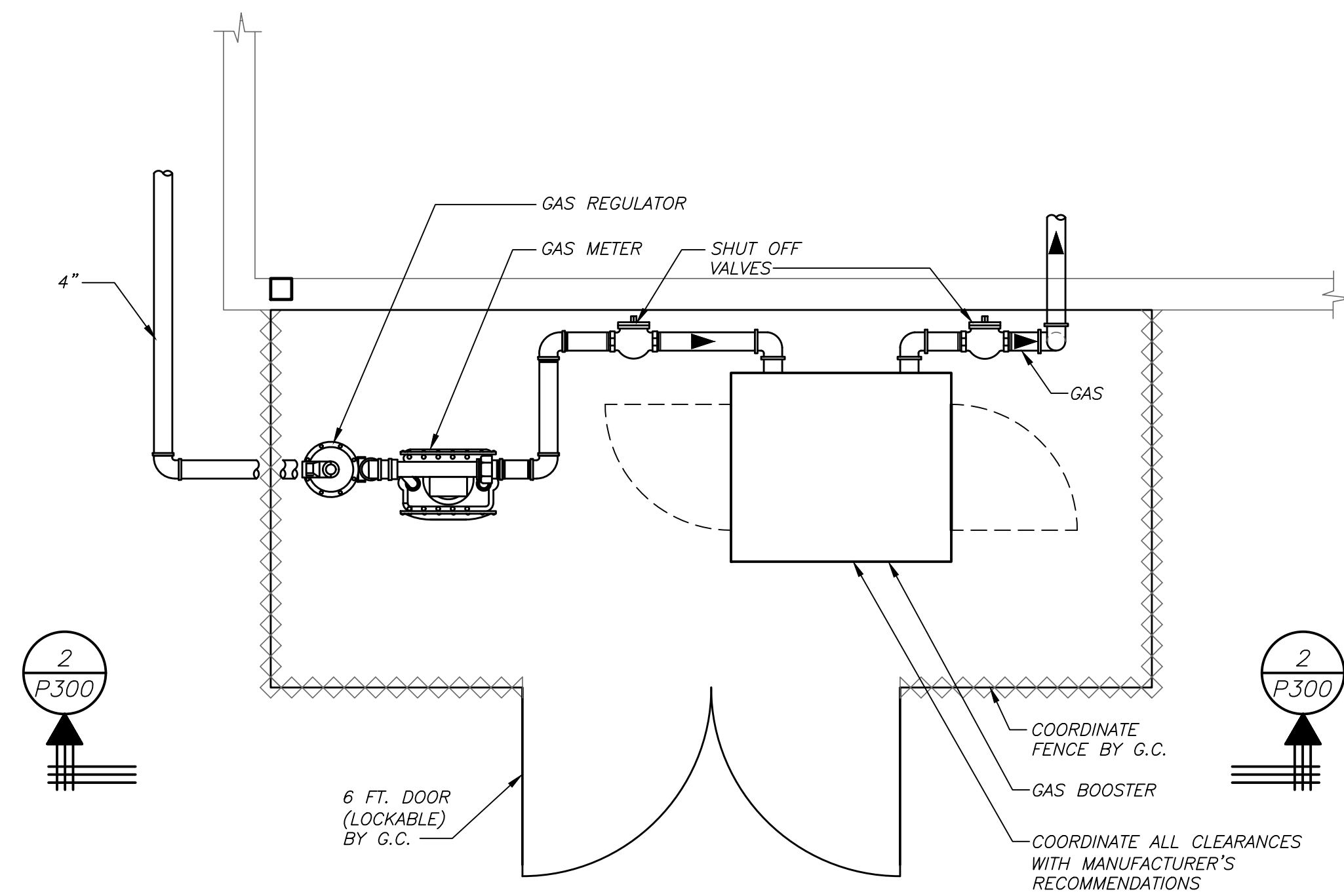
SCHEMATIC EJECTOR DETAIL (BASE BID) **4** **P300** NO SCALE



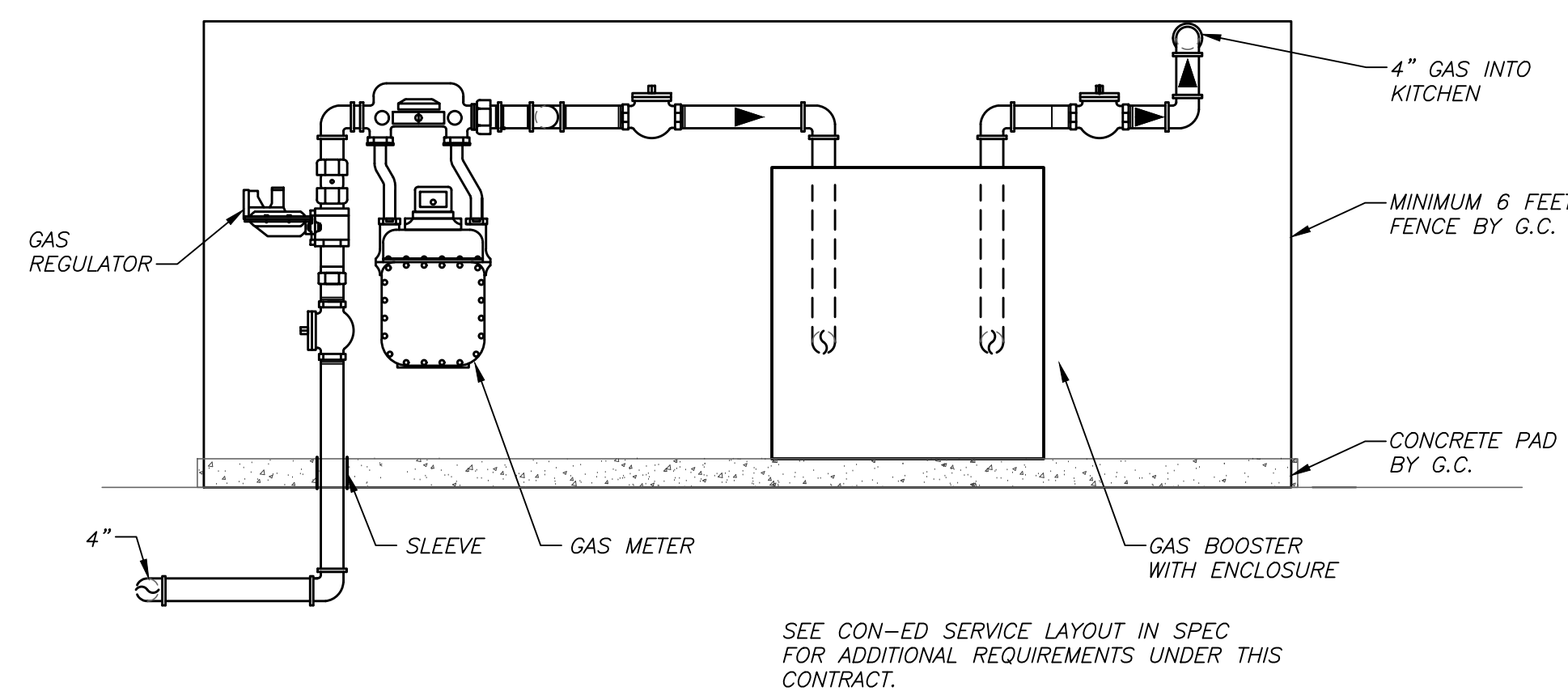
INSULATED PIPE HANGER DETAIL **5** **P300** NO SCALE



CONDENSING HOT WATER HEATER SCHEMATIC PIPING DETAIL **1** **P300** NO SCALE



SCHEMATIC PLAN



SEE CON-ED SERVICE LAYOUT IN SPEC FOR ADDITIONAL REQUIREMENTS UNDER THIS CONTRACT.

SCHEMATIC SECTION

SCHEMATIC GAS METER / BOOSTER ASSEMBLY DETAIL **2** **P300**

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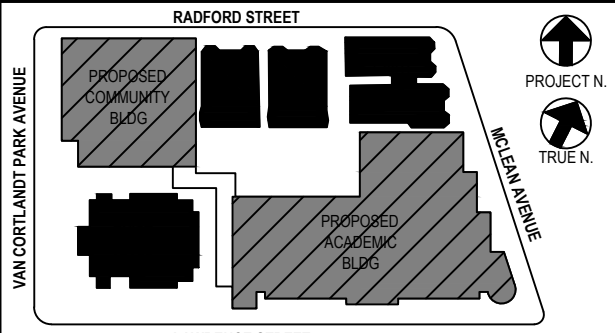
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No.	Date	Issue
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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Sheet Title

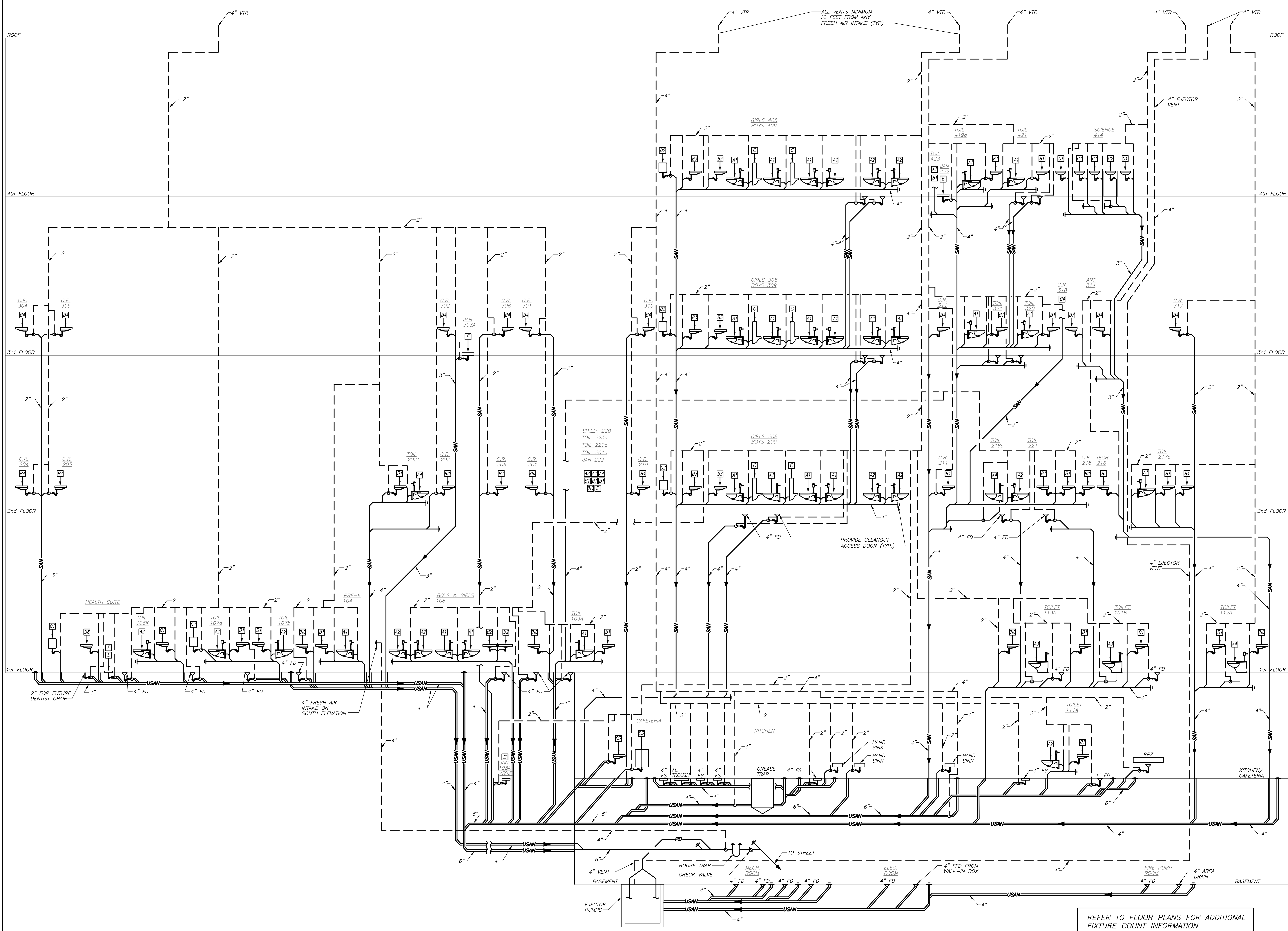
PLUMBING DETAILS

Job No.	Date
2019-1026	11/18/20
Scale	Drawn / Checked
AS NOTED	BGA/BGA

Sheet Number

P300

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ACADEMIC BUILDING SCHEMATIC SANITARY RISER DIAGRAM

1
P400 NO SCALE

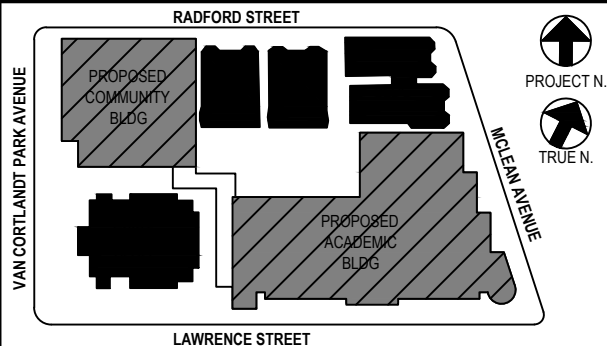
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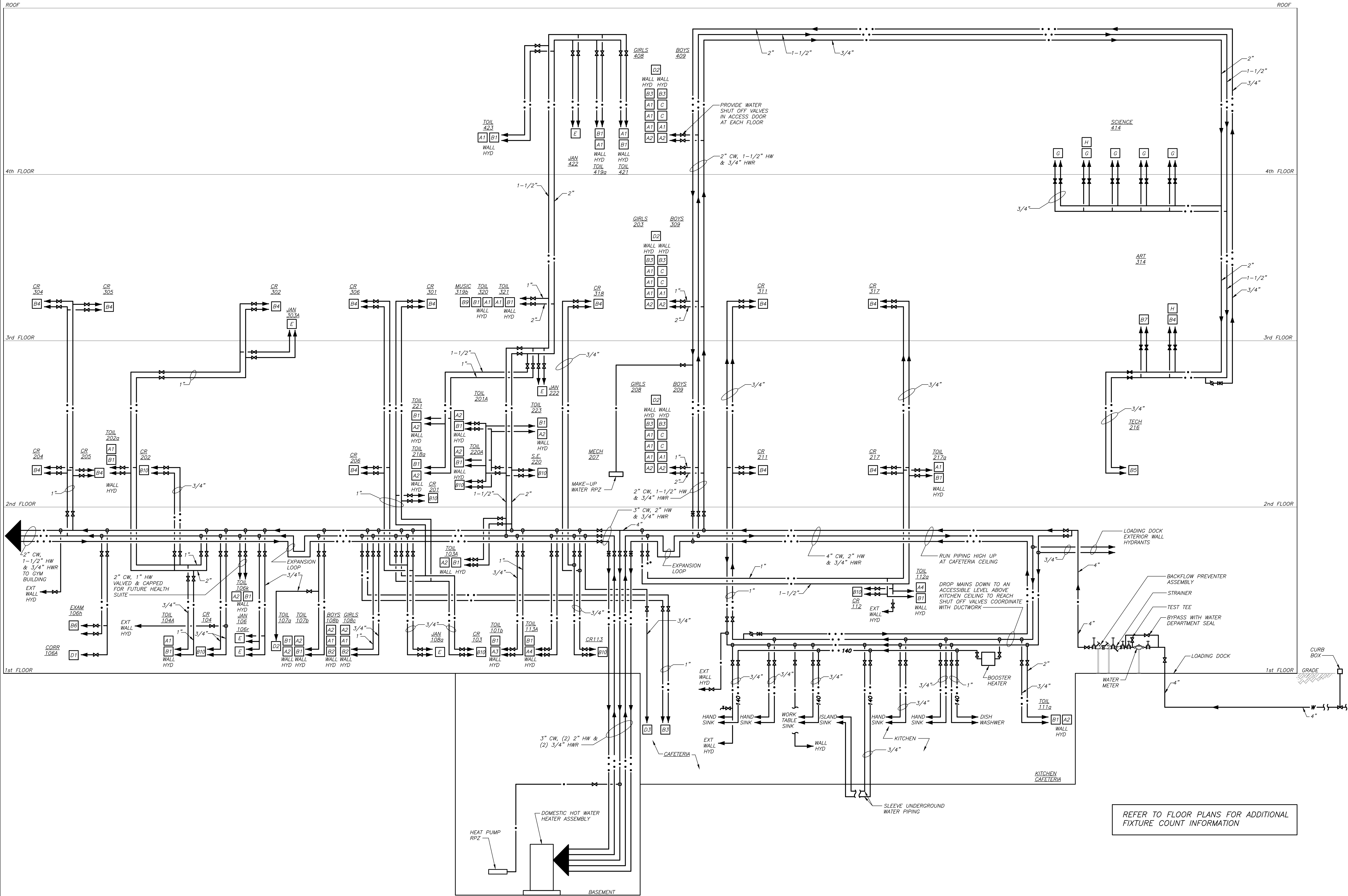
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1	08/31/2020	SCHEMATIC DESIGN

No. Date Issue
Sheet Title
ACADEMIC BUILDING
SCHEMATIC SANITARY
RISER DIAGRAM

Job No. 2019-1026 Date 11/18/20
Scale AS NOTED Drawn / Checked BGA/BGA

Sheet Number
P400



ACADEMIC BUILDING DOMESTIC WATER SCHEMATIC RISER DIAGRAM

1
P401 NO SCALE

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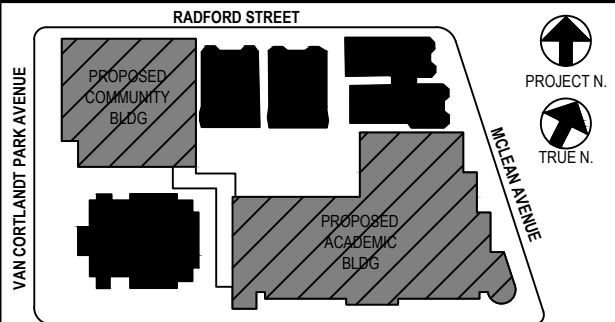
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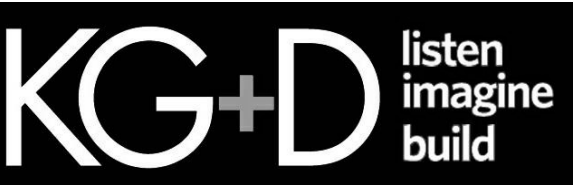
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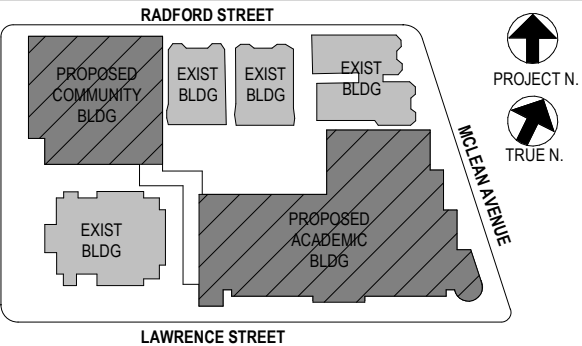
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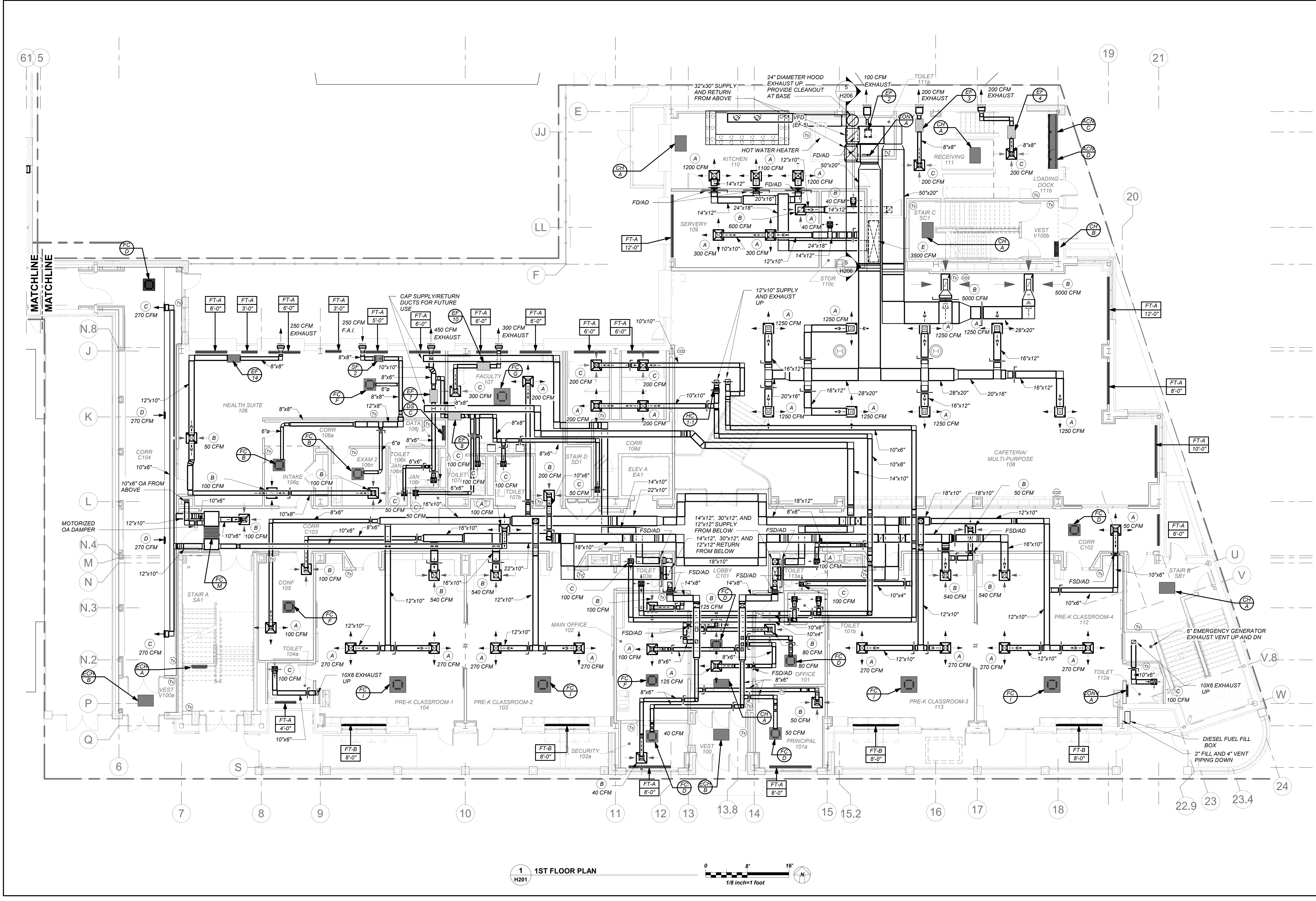
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No.	Date	Issue

Sheet Title

1st Floor Plan

Job No.	2019-1026	Date	8/31/20
Scale	AS NOTED	Drawn / Checked	BGA / BGA
Sheet Number			

H201



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DUCTWORK LINER:

ALL SUPPLY/RETURN/EXHAUST DUCTWORK SHALL BE
LINED WITHIN 20 FT. OF AIR HANDLERS. EXHAUST
DUCTWORK WITHIN 10 FT. OF EXTERIOR SHALL BE LINED.
SEE SPECIFICATIONS.

NY SED PROJECT CONTROL NO.

66-23-00-01-0-346-001

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1	08/31/2020	SCHEMATIC DESIGN
No.	Date	Issue

Sheet Title

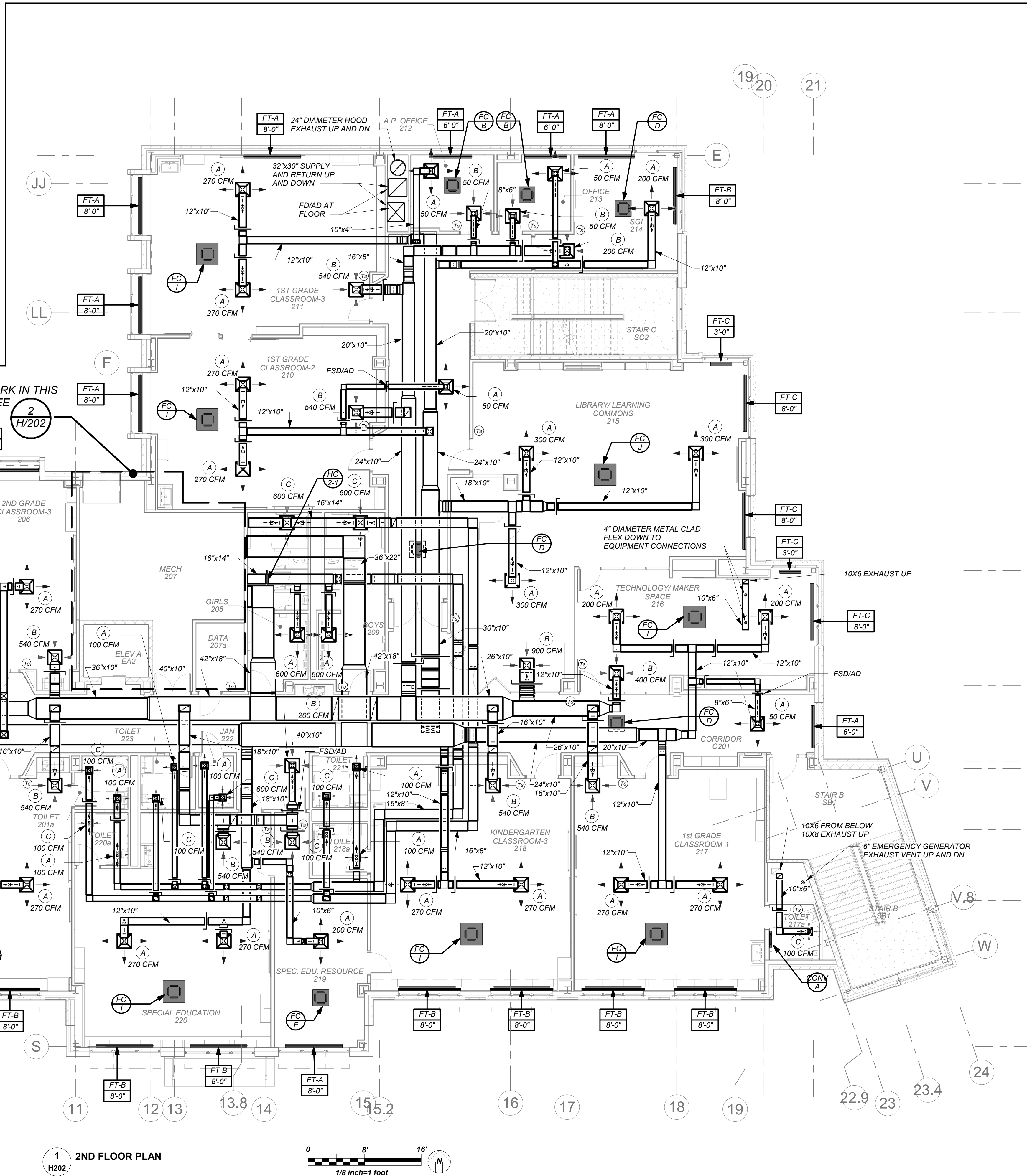
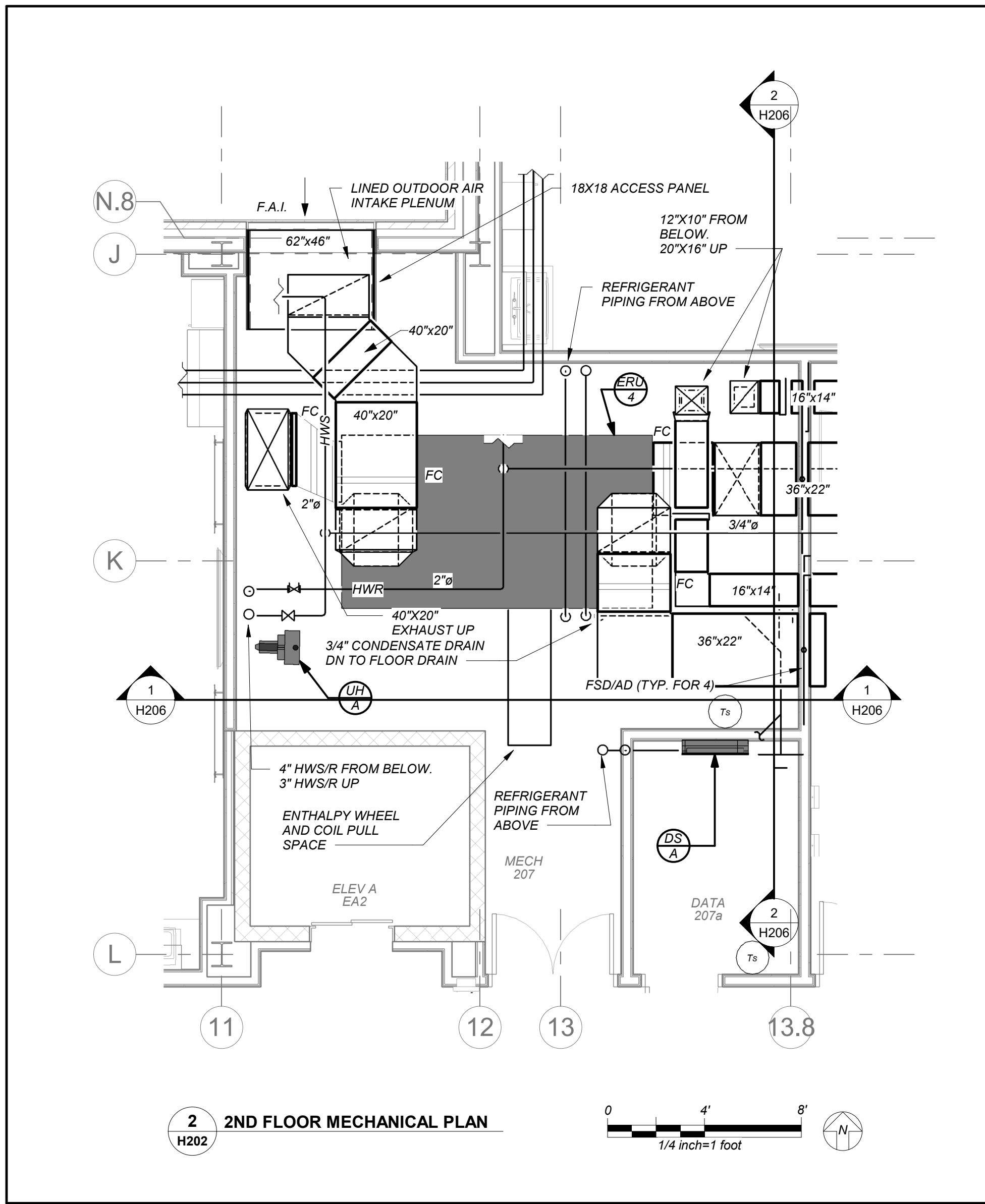
2nd Floor Plans

Job No. 2019-1026 Date 8/31/20

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Sheet Number

H202



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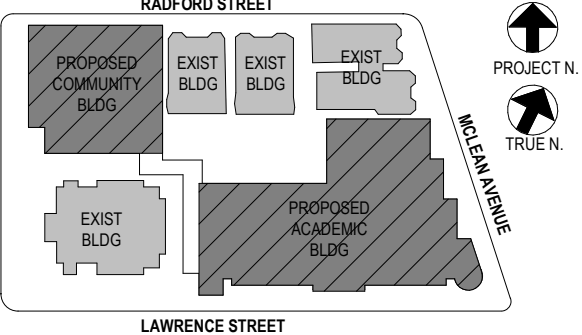
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NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

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4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN
No.	Date	Issue

Sheet Title

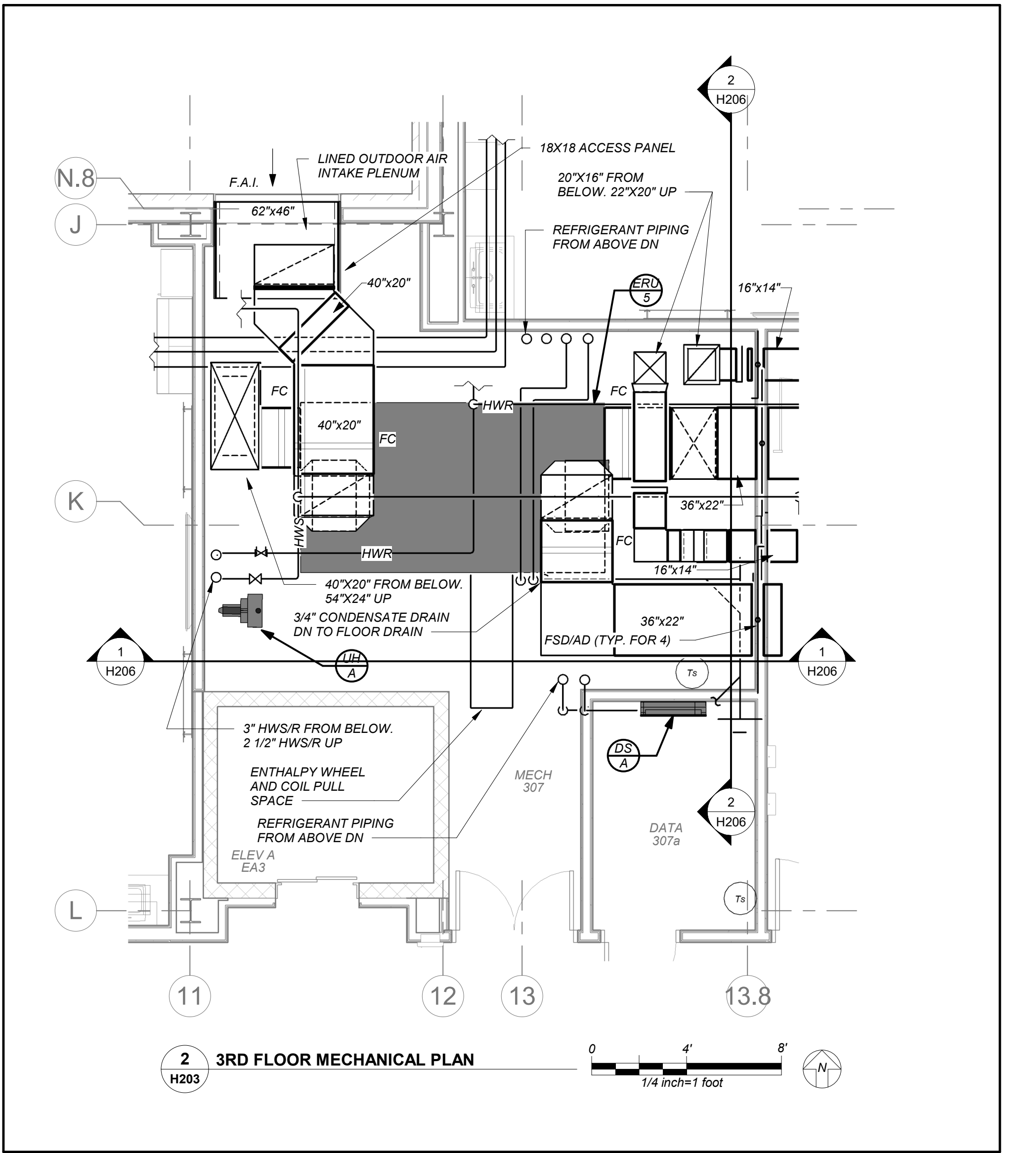
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Job No. 2019-1026 Date 8/31/20

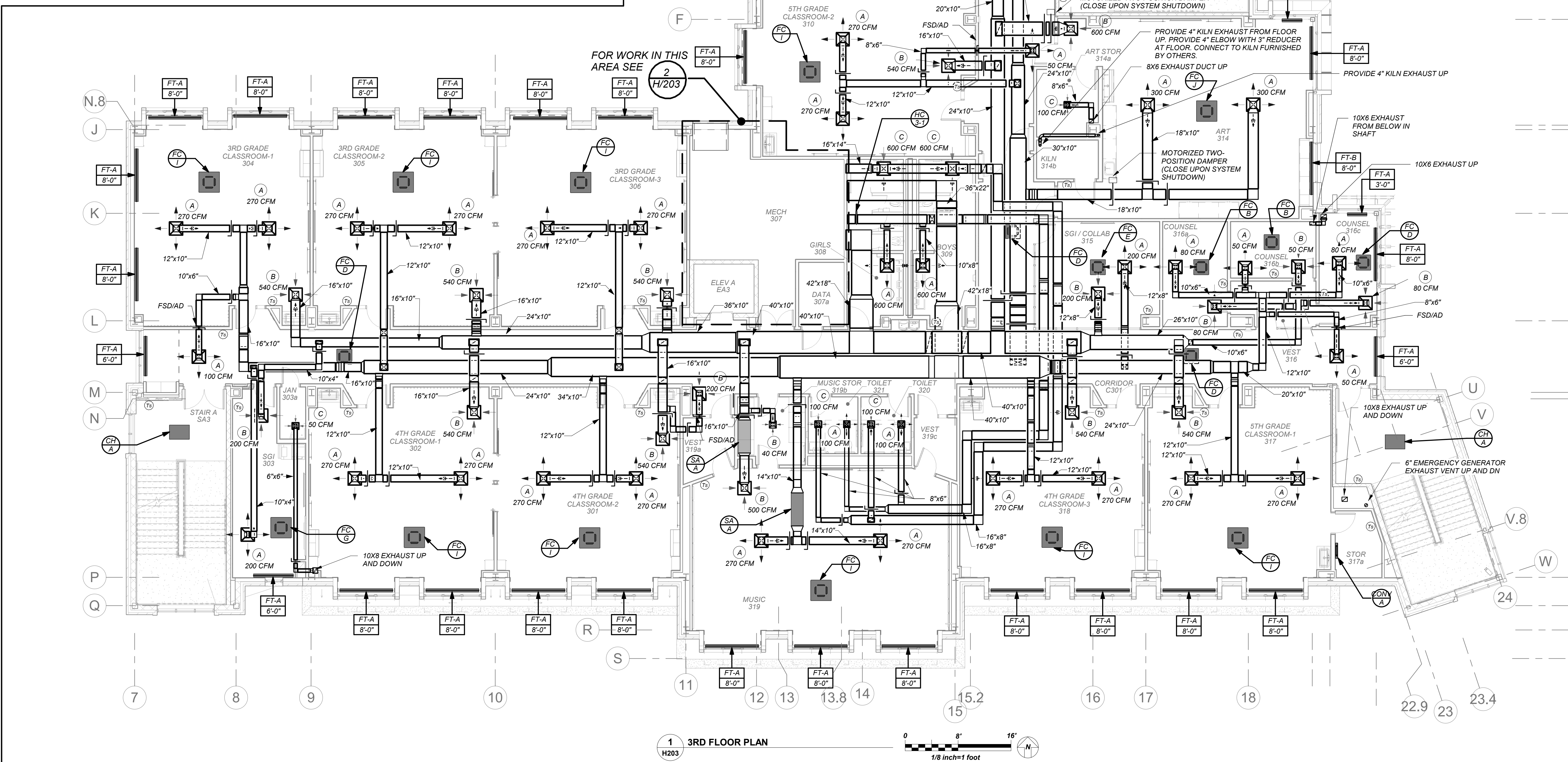
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Sheet Number

H203



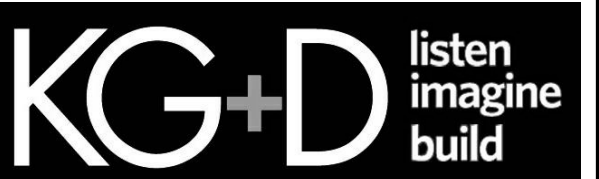
DUCTWORK LINER:
ALL SUPPLY/RETURN/EXHAUST DUCTWORK SHALL BE LINED WITHIN 20 FT. OF AIR HANDLERS. EXHAUST DUCTWORK WITHIN 10 FT. OF EXTERIOR SHALL BE LINED. SEE SPECIFICATIONS.



BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

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SEE SPECIFICATIONS.

NY SED PROJECT CONTROL NO.

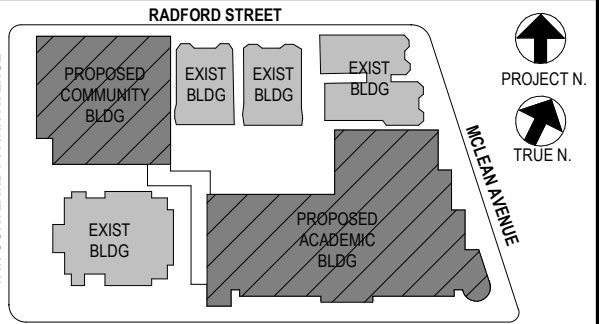
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1	08/31/2020	SCHEMATIC DESIGN
No.	Date	Issue

Sheet Title

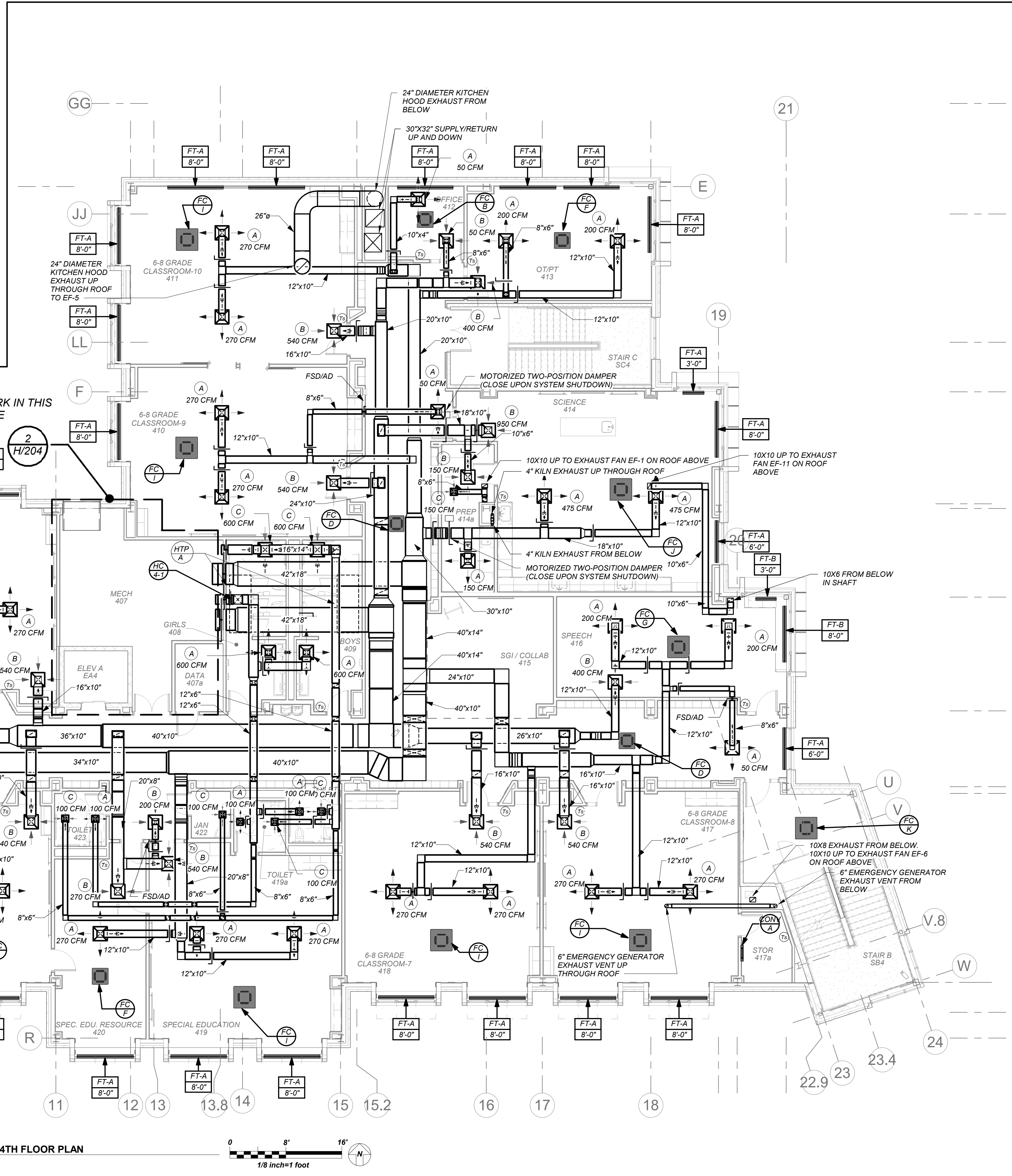
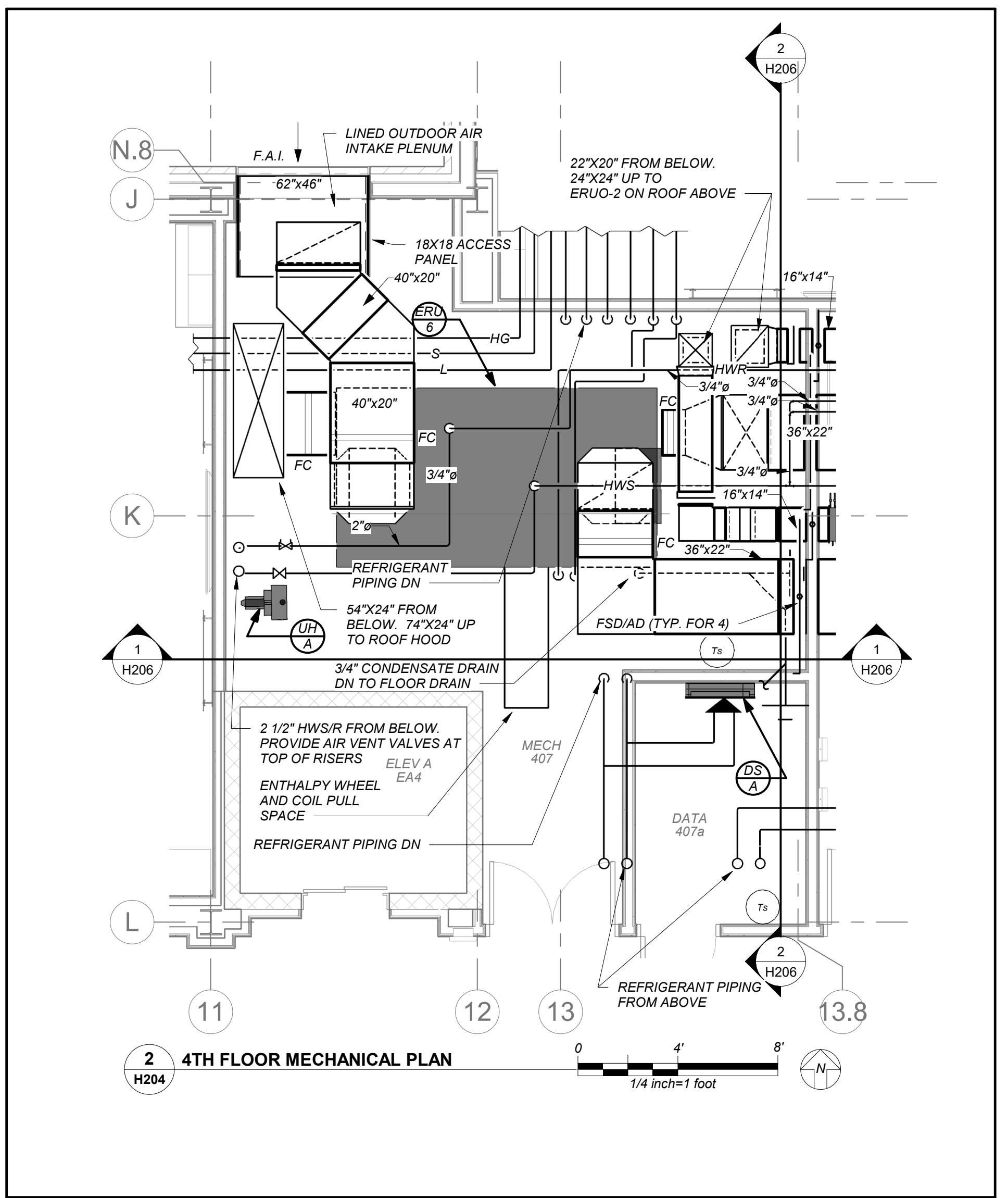
4th Floor Plans

Job No. 2019-1026 Date 8/31/20

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Sheet Number

H204



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YONKERS JOINT SCHOOL
CONSTRUCTION BOARD
121 McLean Avenue
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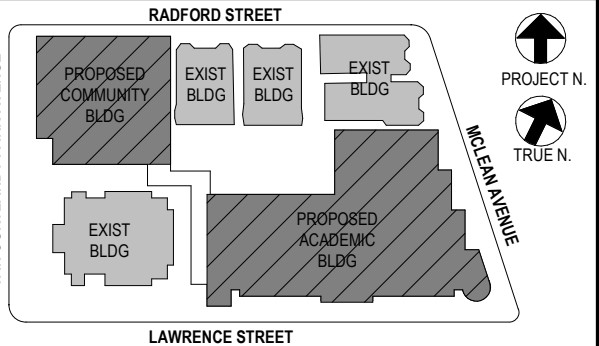
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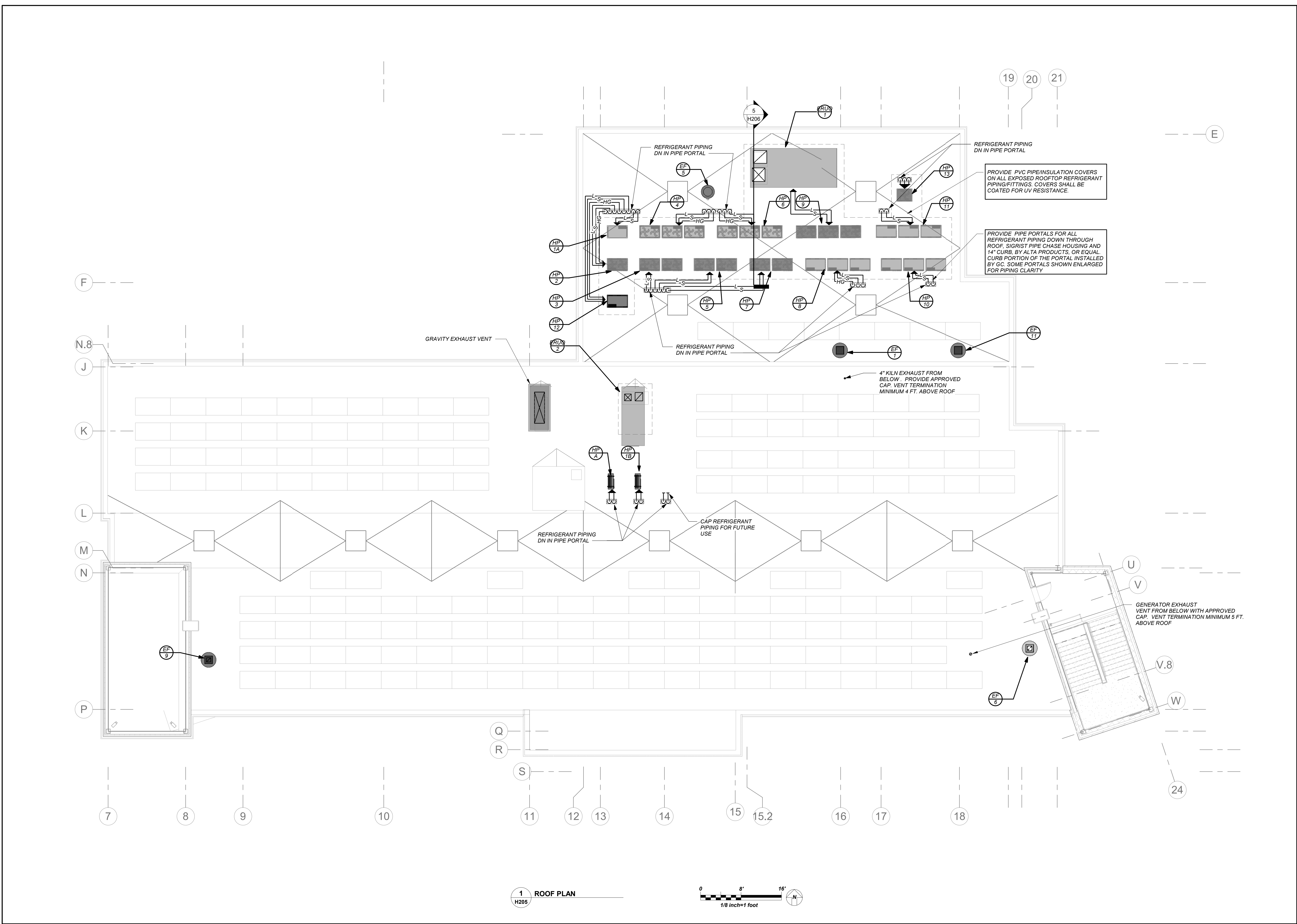
Professional Seal

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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN
No	Date	Issue

Sheet Title

Roof Plan

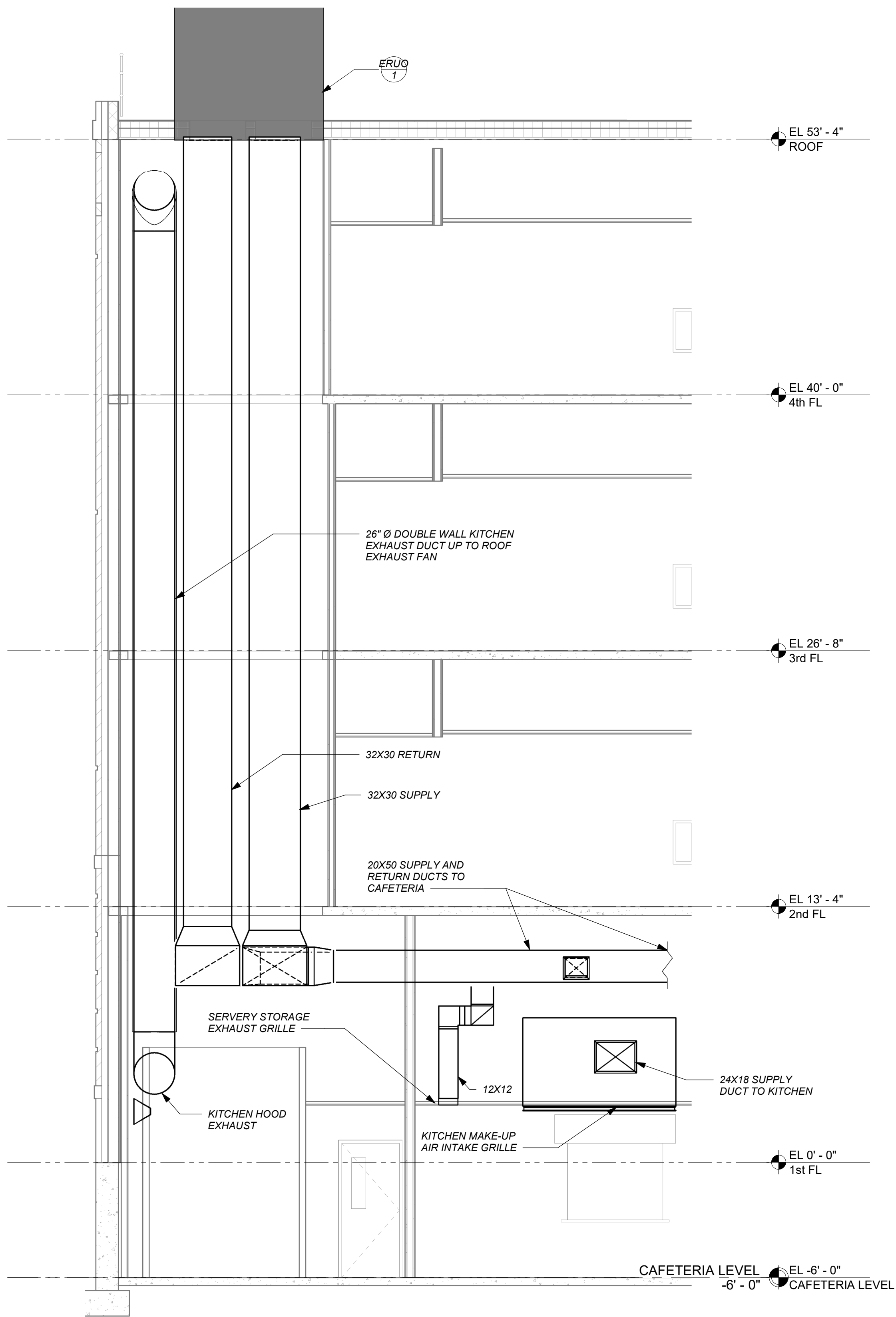
Job No.	2019-1026	Date	04/07/21
Scale	AS NOTED	Drawn / Checked	BGA/ BGA
Sheet Number	H205		



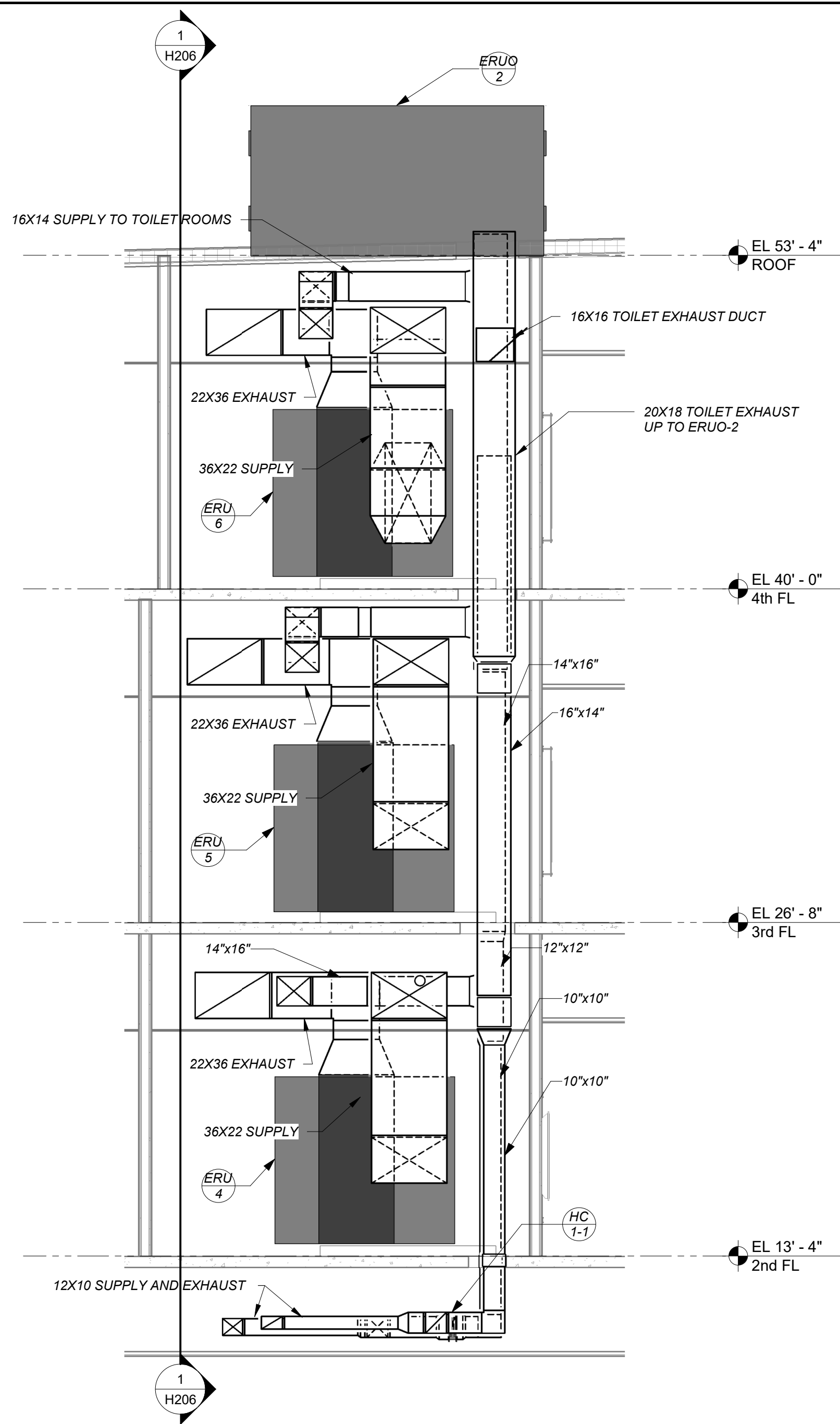
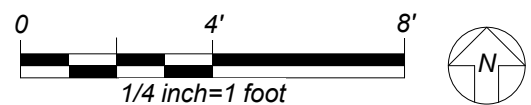
1 ROOF PLAN
H205



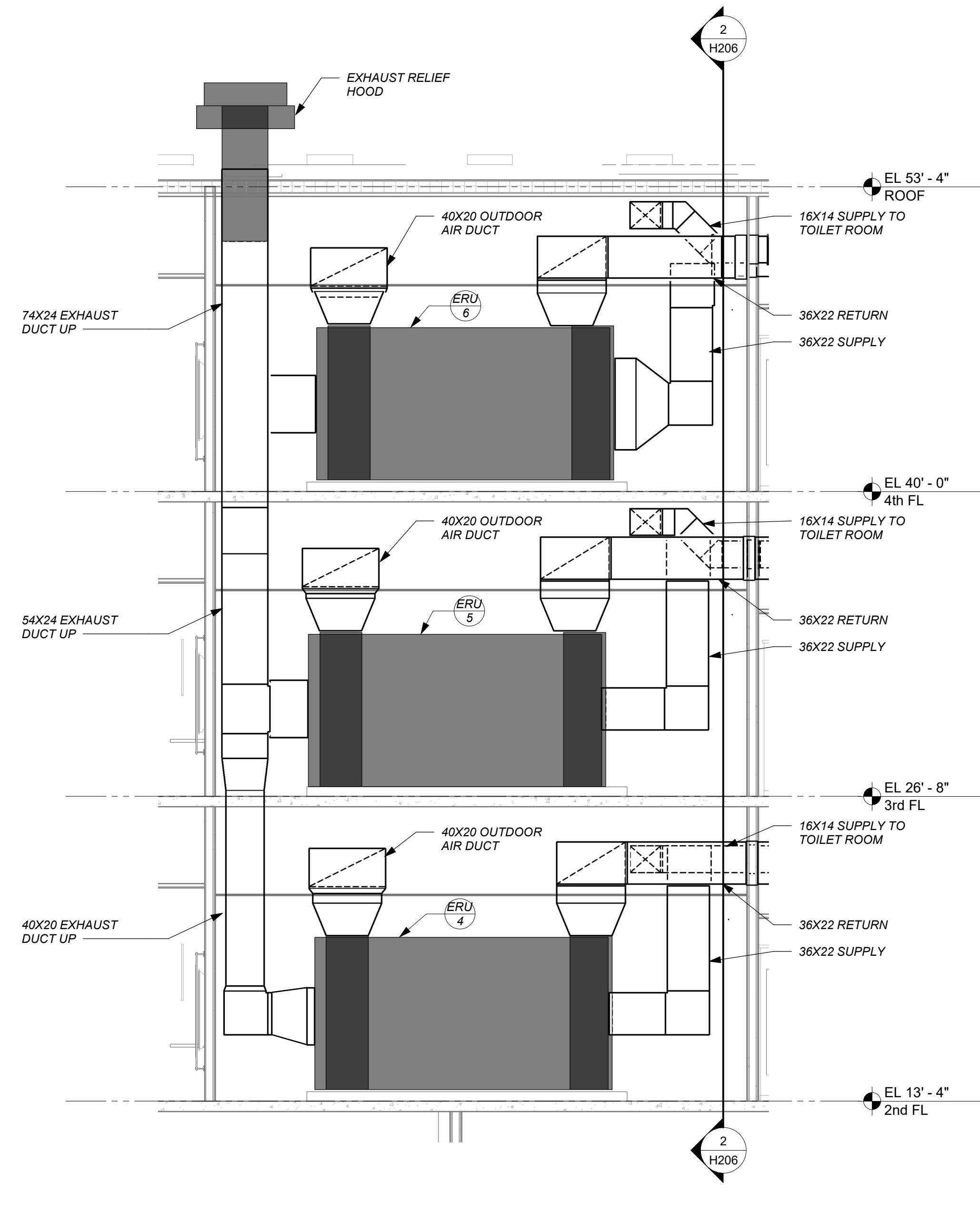
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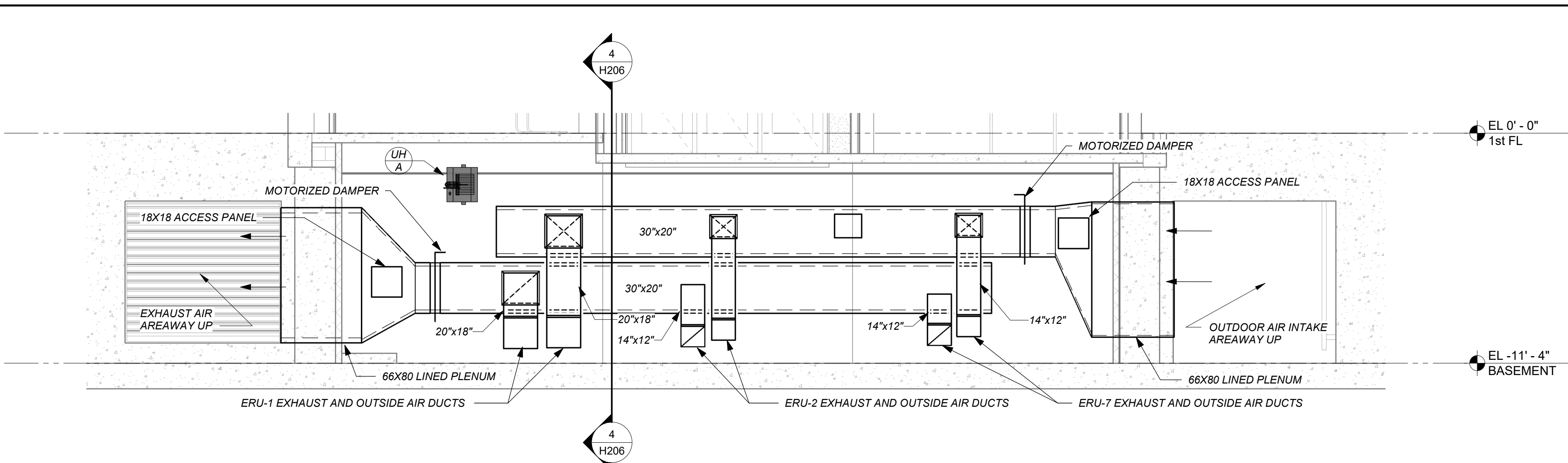
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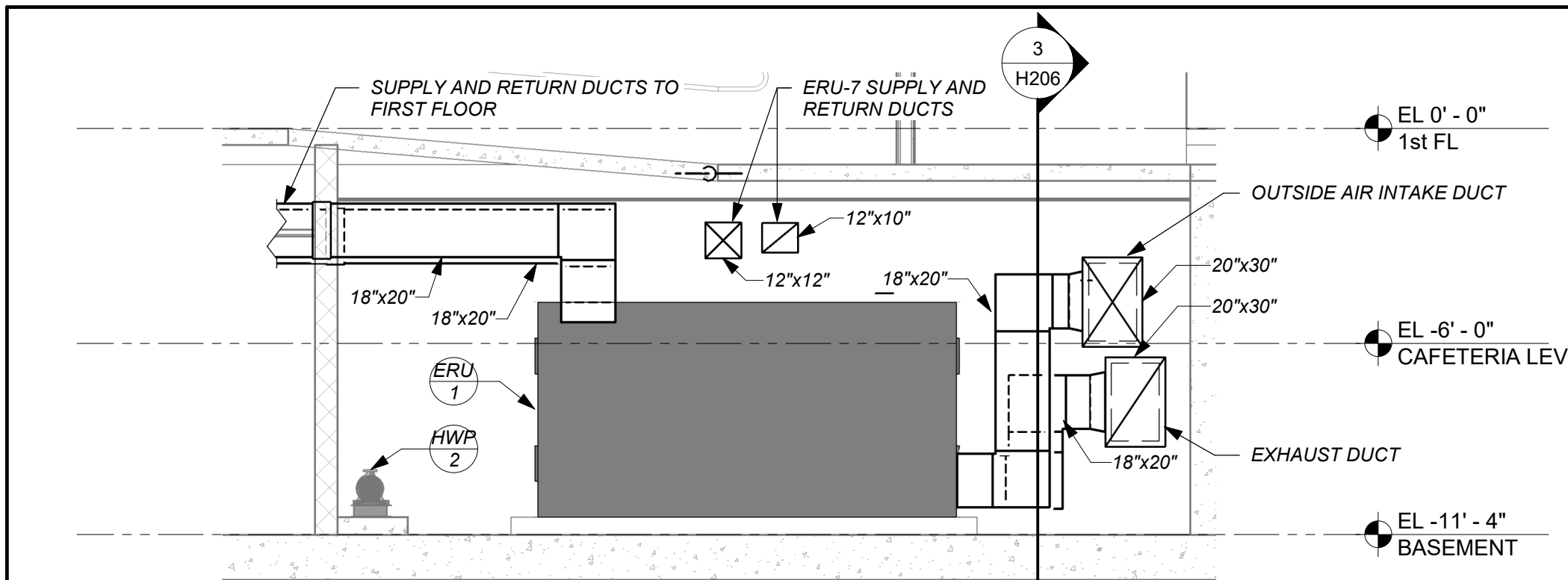
2 Mechanical Rooms Section 2



1 Mechanical Rooms Section 1



3 Basement Mechanical Room Section 2



4 Basement Mechanical Room Section 1



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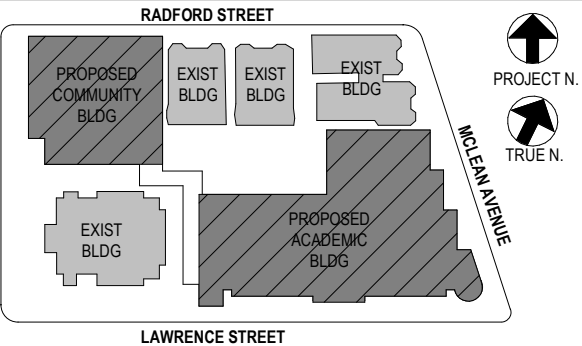
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3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Sheet Title

Mechanical Sections

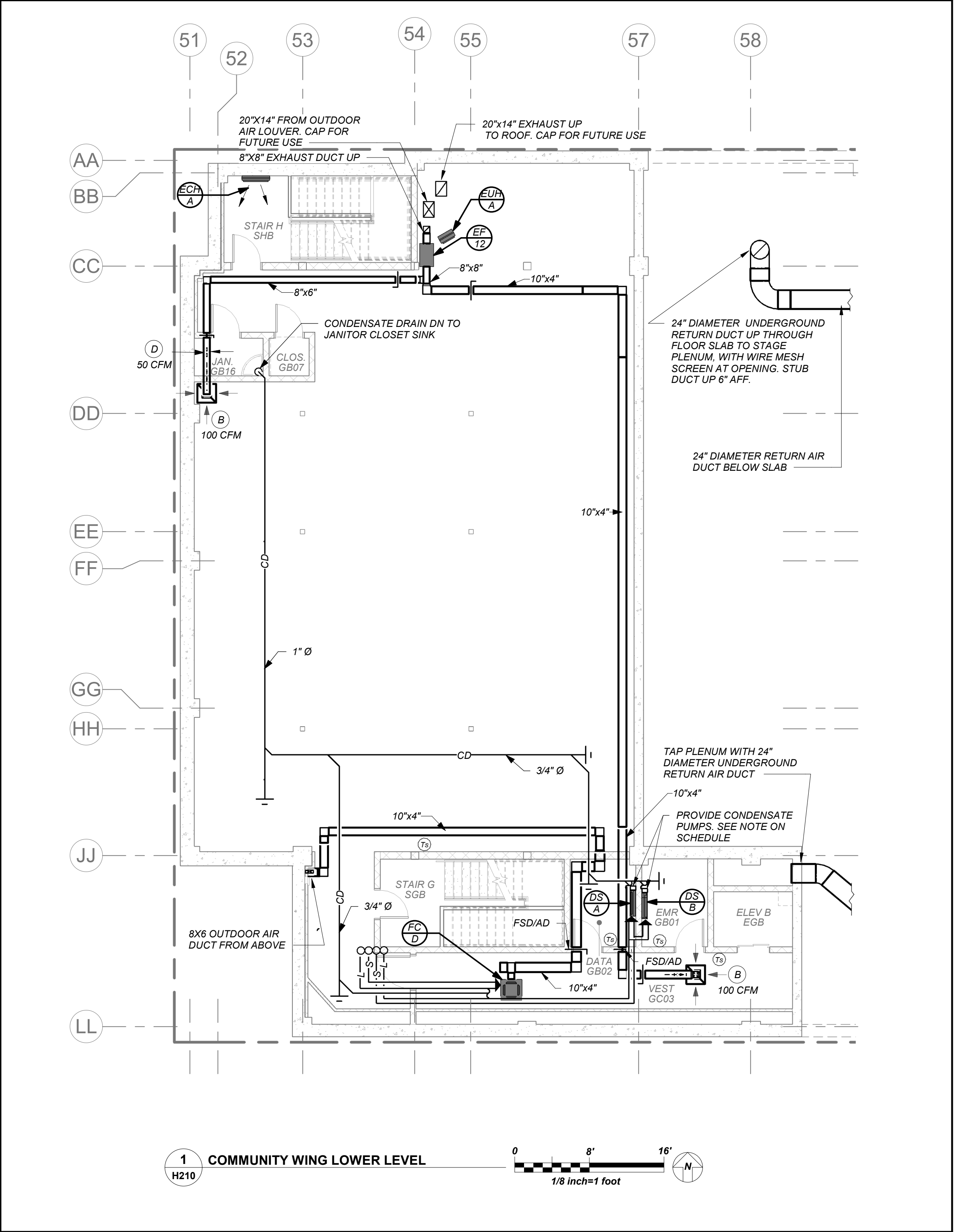
Job No. 2019-1026 Date 09/20/21

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Sheet Number

H206

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VRF AND DUCTLESS SPLIT SYSTEMS:
THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE MANUFACTURER'S REPRESENTATIVE FOR PURPOSES OF PROVIDING REFRIGERANT PIPING SIZING. SPECIFIED SYSTEM IS HEAT RECOVERY TYPE WHICH REQUIRES A THIRD REFRIGERANT PIPE FROM THE OUTDOOR UNIT. CONTRACTOR SHALL PROVIDE PIPING FROM RESPECTIVE OUTDOOR UNIT TO EACH NEW INDOOR UNIT, FOR COMPLETE AND OPERABLE SYSTEMS.

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CONDENSATE PIPING:
PROVIDE CONDENSATE PIPING FOR ALL INDOOR FAN COIL, EVAPORATOR UNITS AND AIR HANDLER CONDENSATE PANS. RUN CONDENSATE TO NEAREST FLOOR DRAIN OR JANITOR'S SINK. PROVIDE CONDENSATE PUMPS WHERE GRAVITY DRAINAGE IS NOT POSSIBLE, FOR COMPLETE AND OPERABLE SYSTEMS.
PROVIDE CONDENSATE PIPING FOR ALL OUTDOOR AIR HANDLERS FROM RESPECTIVE CONDENSATE PAN TO NEAREST ROOF DRAIN.

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

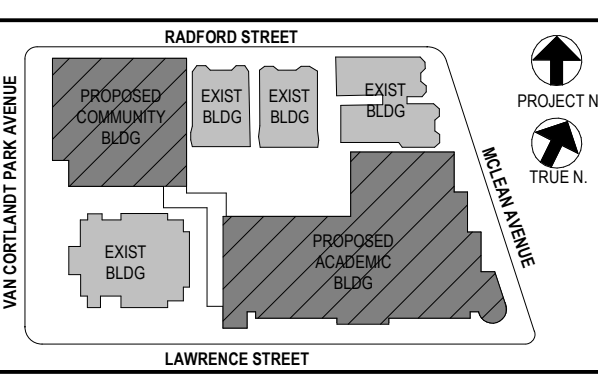
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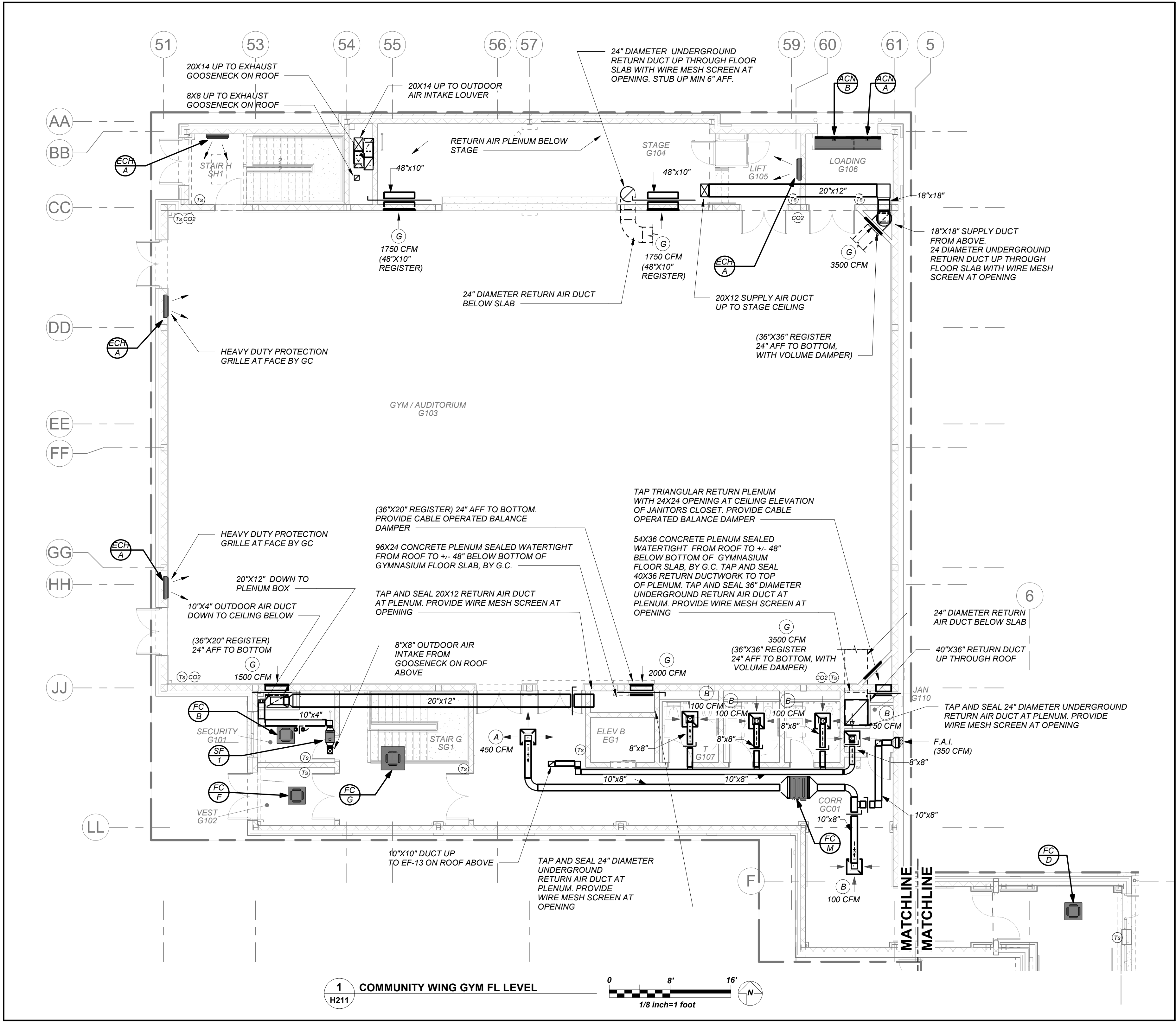
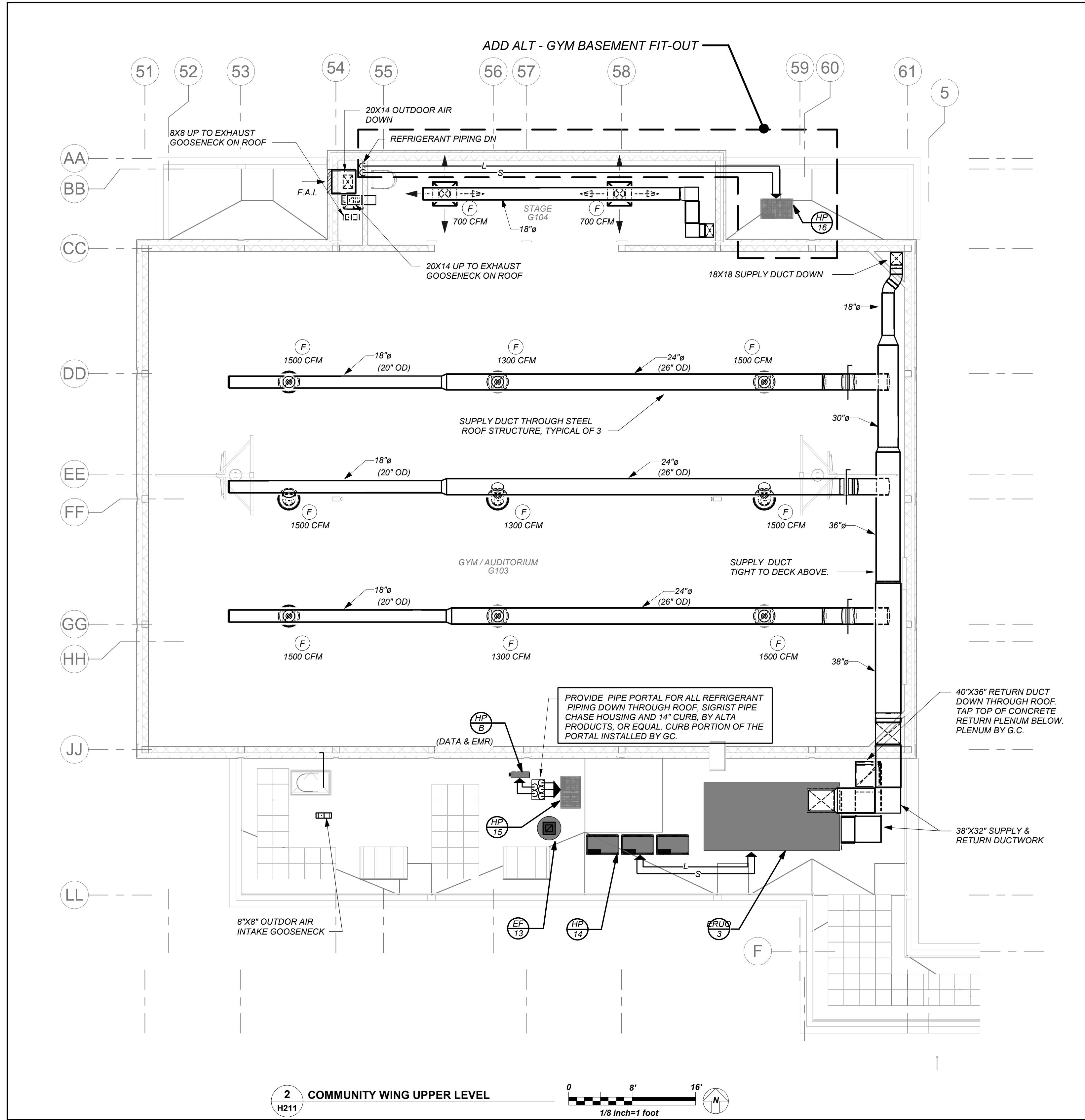
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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN
No	Date	Issue

Sheet Title

Community Wing Basement Floor Plan

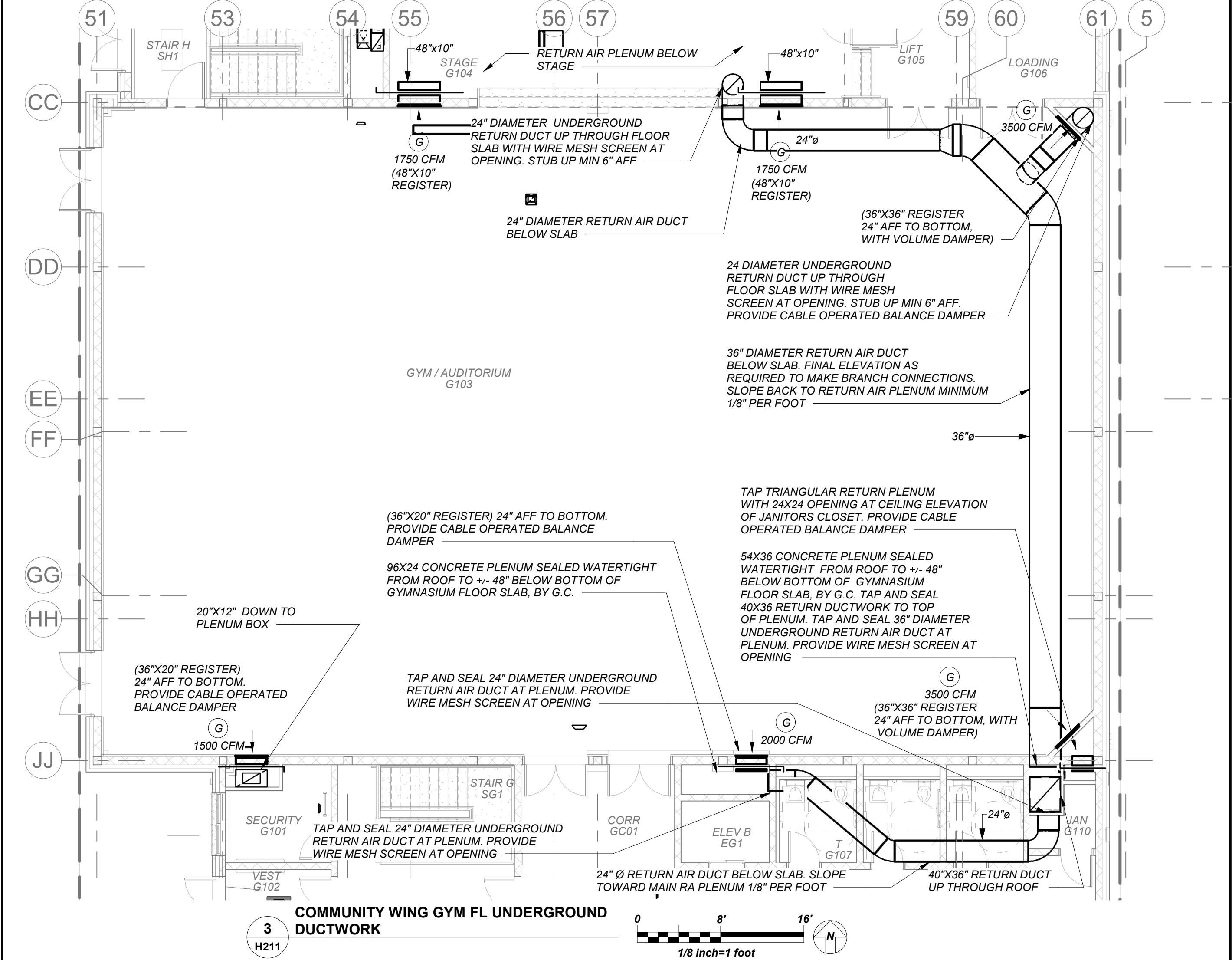
Job No.	2019-1026	Date	8/31/20
Scale	AS NOTED	Drawn / Checked	BGA/BGA
Sheet Number		H210	



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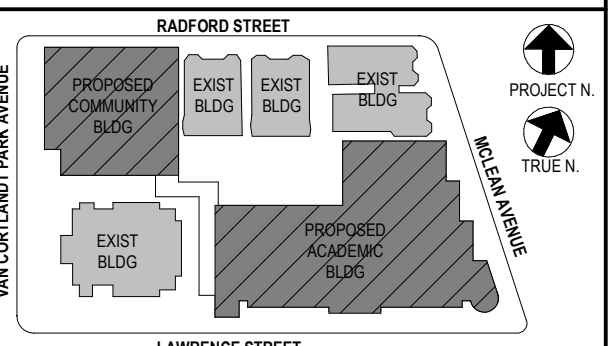
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No.	Date	Issue
1	08/31/2020	SCHEMATIC DESIGN
2	12/15/2020	DESIGN DEVELOPMENT
3	07/14/2021	CONSTRUCTION DOCS-NYSED
4	11/01/2021	ISSUED TO BID

Community Wing 1st Floor Plans

Job No. 2019-1026 Date 8/31/20
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H211

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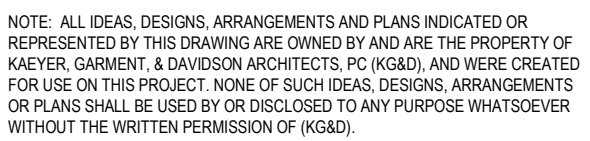
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39 MARBLE AVE PLEASANTVILLE, NY 10570
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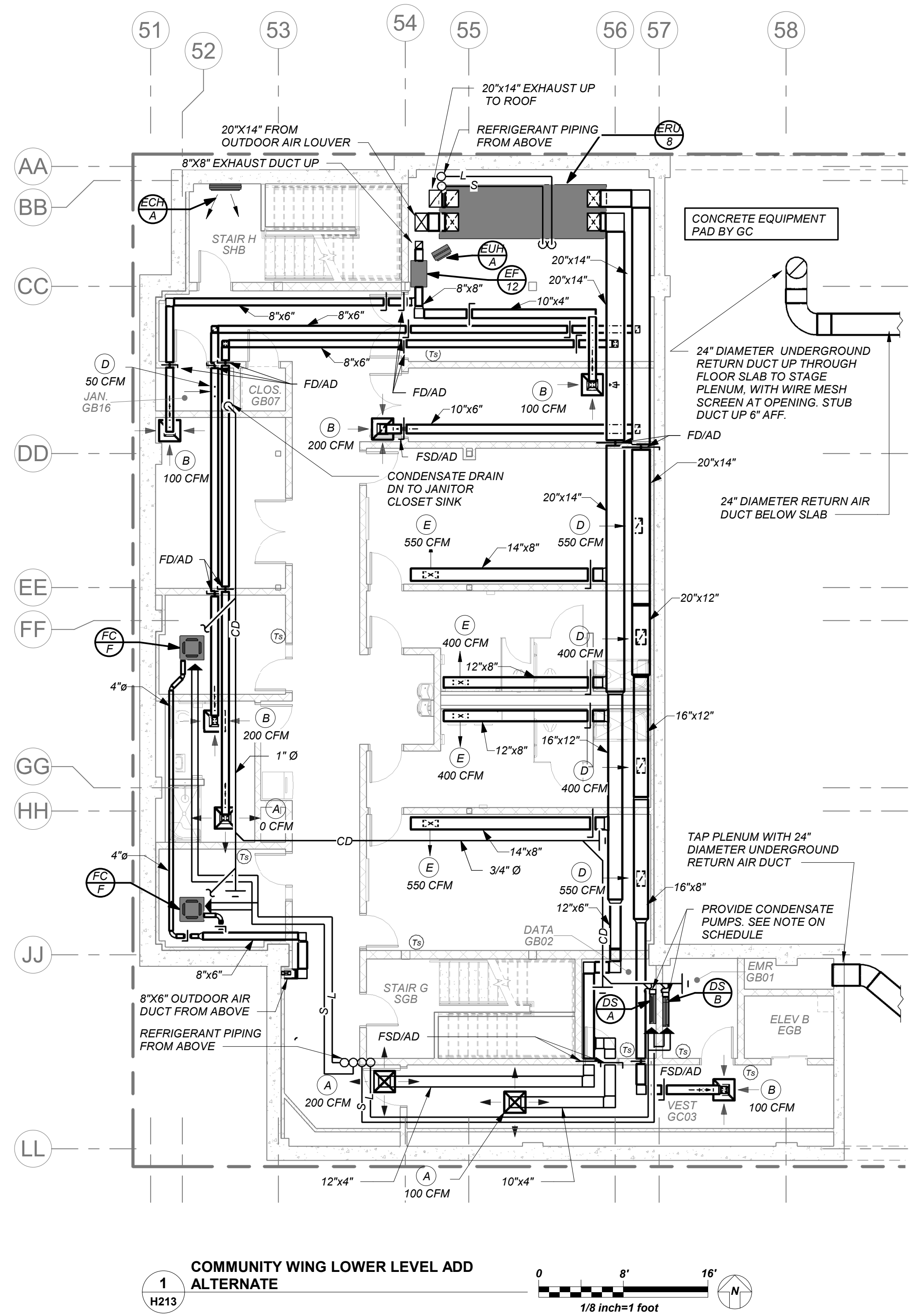
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Sheet Title

Scale AS NOTED	Drawn / Checked BGA/ BGA
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Sheet Number

H213



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PANS. RUN CONDENSATE TO NEAREST FLOOR DRAIN OR
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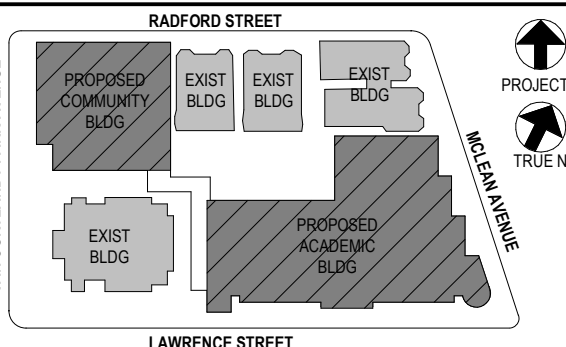
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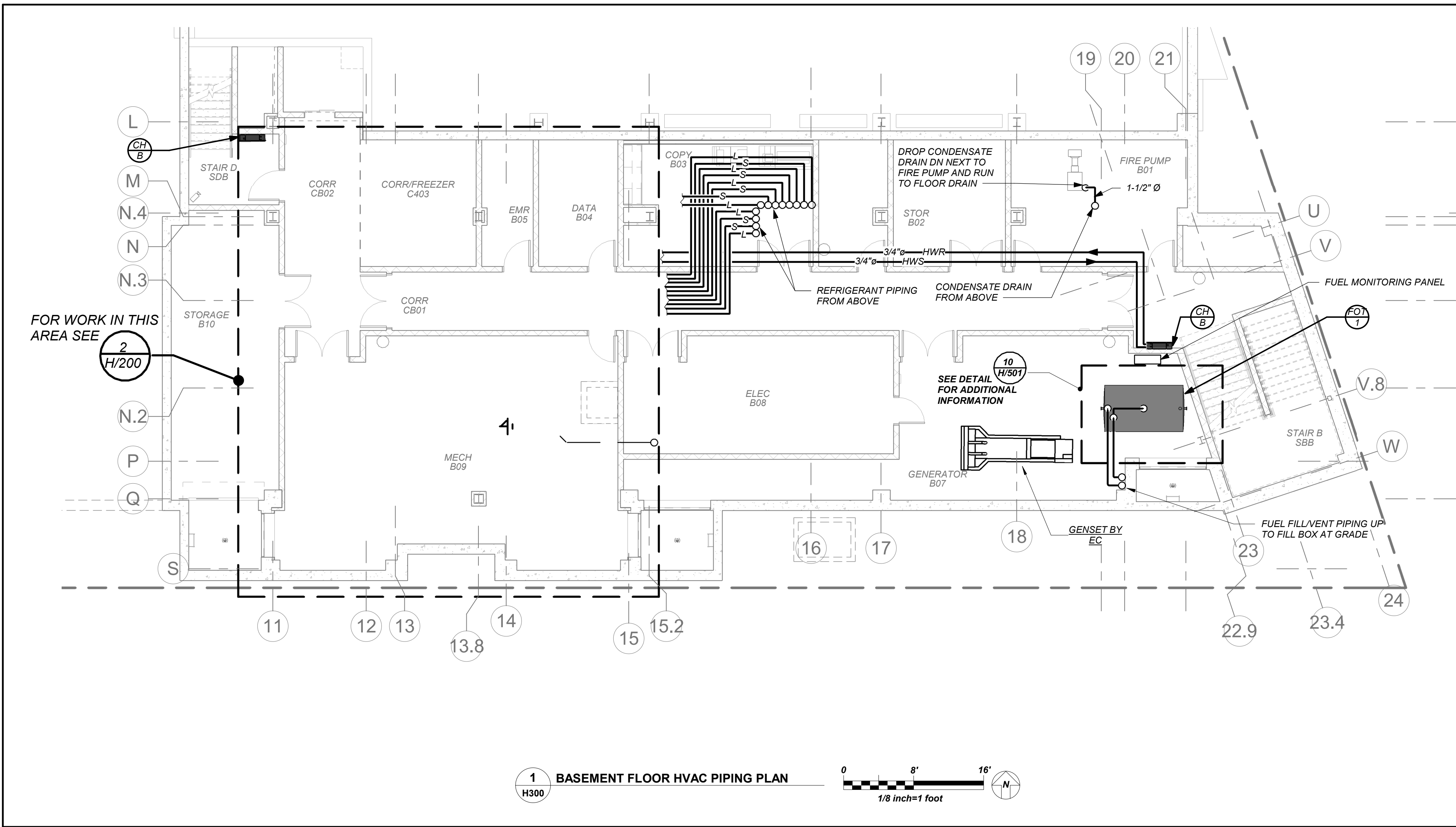
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4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN
No.	Date	Issue

Sheet Title

Basement Piping

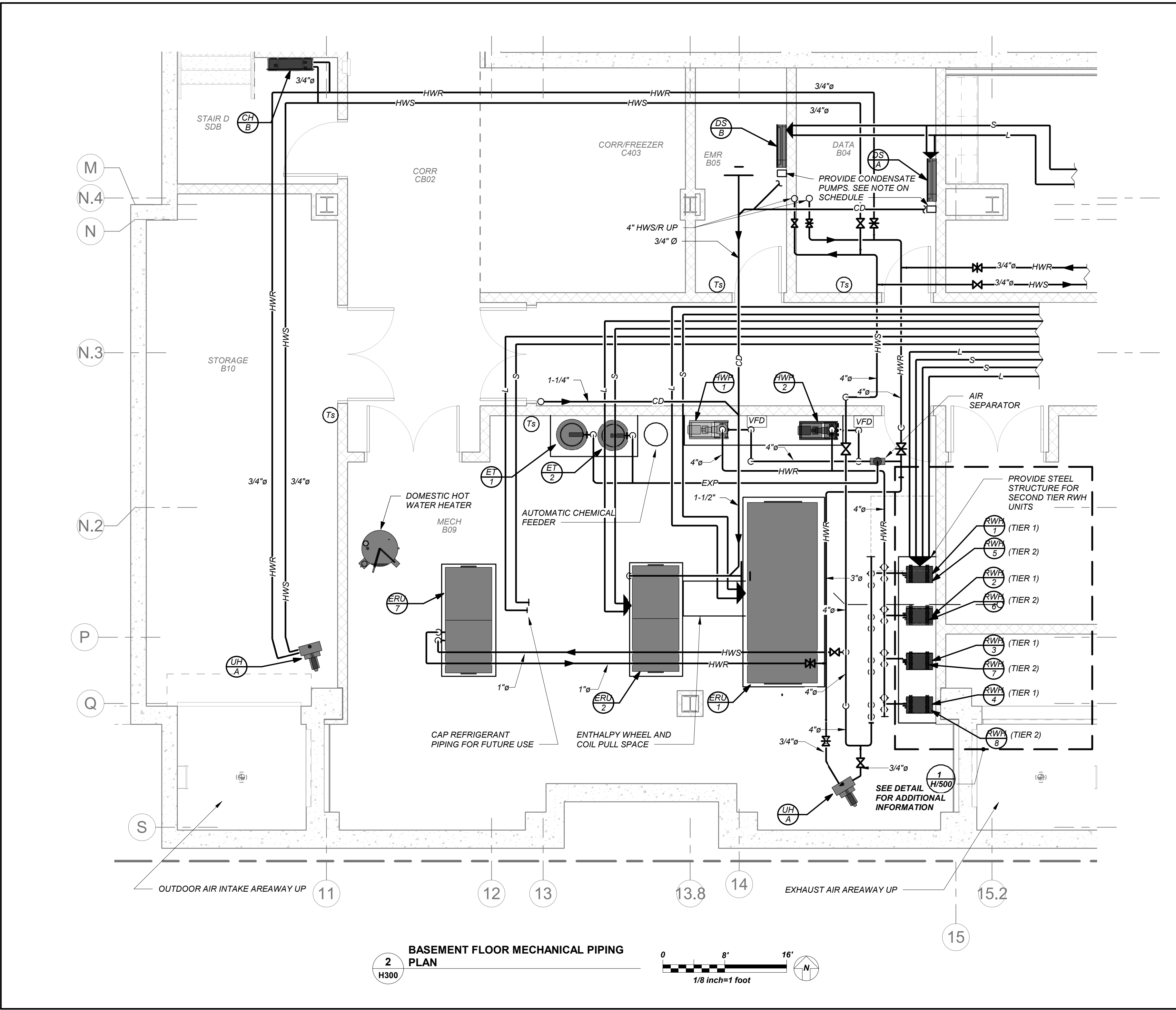
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Sheet Number	H300		



VRF AND DUCTLESS SPLIT SYSTEMS:
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CONDENSATE PIPING:
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PROVIDE CONDENSATE PIPING FOR ALL OUTDOOR AIR HANDLERS FROM RESPECTIVE CONDENSATE PAN TO NEAREST ROOF DRAIN.



BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

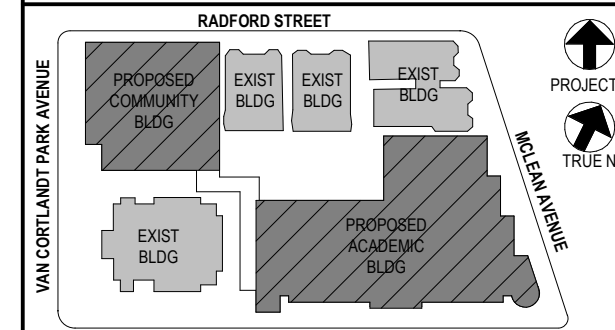
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CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



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UNWRITTEN DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS
AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY
VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS MUST
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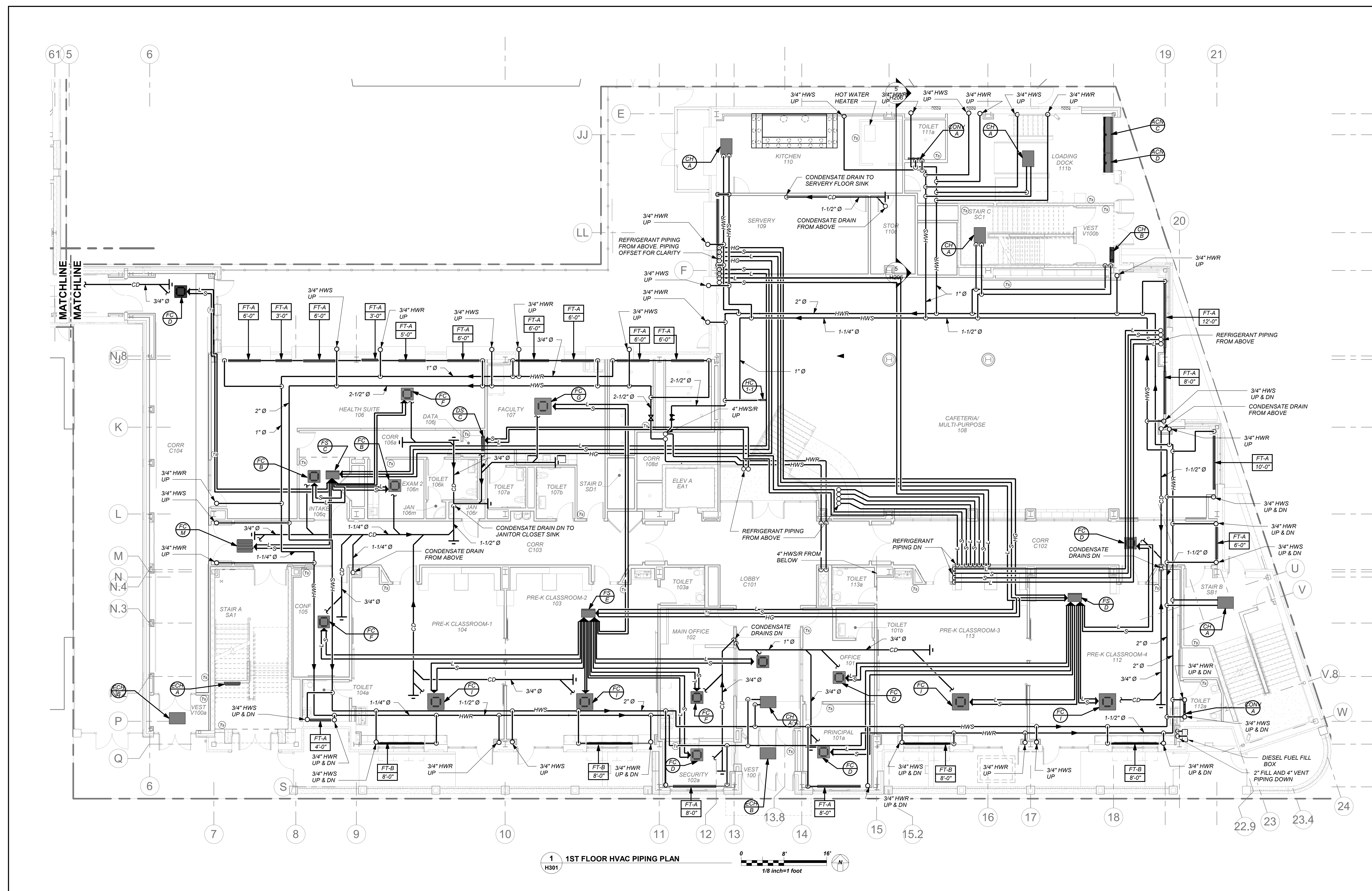
1st Floor Piping

Job No.	Date
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Scale	Drawn / Checked
AS NOTED	BCA/BC

Sheet Number

H301



HOT WATER PIPING:

HOT WATER SUPPLY AND RETURN LOOP IS LOCATED IN FIRST FLOOR CEILING. DOWNFEED TO FIRST FLOOR TERMINAL UNITS AND UPFEED TO SECOND FLOOR TERMINAL UNITS. SEE DETAIL 1/H503 FOR PIPING RISE/FALL DIAGRAM.

VRF AND DUCTLESS SPLIT SYSTEMS:

THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE MANUFACTURER'S REPRESENTATIVE FOR PURPOSES OF PROVIDING REFRIGERANT PIPING SIZING. SPECIFIED SYSTEM IS HEAT RECOVERY TYPE WHICH REQUIRES A THIRD REFRIGERANT PIPE FROM THE OUTDOOR UNIT. CONTRACTOR SHALL PROVIDE PIPING FROM RESPECTIVE OUTDOOR UNIT TO EACH NEW INDOOR UNIT, FOR COMPLETE AND OPERABLE SYSTEMS.

CONDENSATE PIPING:

PROVIDE CONDENSATE PIPING FOR ALL INDOOR FAN COIL
EVAPORATOR UNITS AND AIR HANDLER CONDENSATE
PANS. RUN CONDENSATE TO NEAREST FLOOR DRAIN OR
JANITOR'S SINK. PROVIDE CONDENSATE PUMPS WHERE
GRAVITY DRAINAGE IS NOT POSSIBLE, FOR COMPLETE
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PROVIDE CONDENSATE PIPING FOR ALL OUTDOOR AIR HANDLERS FROM RESPECTIVE CONDENSATE PAN TO NEAREST ROOF DRAIN.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS OF JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

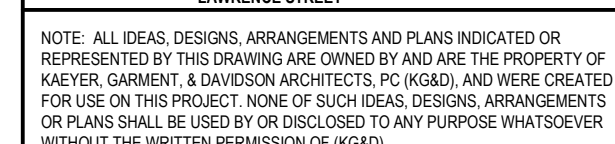
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SEE FIRST FLOOR PIPING PLAN FOR HOT WATER SUPPLY AND RETURN LOOP UPFEEDING SECOND FLOOR TERMINAL UNITS. SEE DETAIL 1/H503 FOR PIPING RISER DIAGRAM.

THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE MANUFACTURER'S REPRESENTATIVE FOR PURPOSES OF PROVIDING REFRIGERANT PIPING SIZING. SPECIFIED SYSTEM IS HEAT RECOVERY TYPE WHICH REQUIRES A THIRD REFRIGERANT PIPE FROM THE OUTDOOR UNIT. CONTRACTOR SHALL PROVIDE PIPING FROM RESPECTIVE OUTDOOR UNIT TO EACH NEW INDOOR UNIT, FOR COMPLETE AND OPERABLE SYSTEMS.

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AND OPERABLE SYSTEMS.

PROVIDE CONDENSATE PIPING FOR ALL OUTDOOR AIR HANDLERS FROM RESPECTIVE CONDENSATE PAN TO NEAREST ROOF DRAIN.

No.	Date
Sheet Title	

2nd Floor Piping

Job No.	Date
2019-1026	08/24/2

Scale AS NOTED	Drawn / Checked BGA/ BG
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Sheet Number

H302

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS OF JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

11/3/2021 5:00:08 PM

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CONSTRUCTION BOARD
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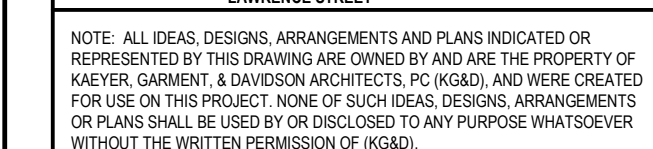
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HOT WATER PIPING:

HOT WATER SUPPLY AND RETURN LOOP SHOWN ON PLAN OUTSIDE OF MECHANICAL ROOM IS LOCATED IN SECOND FLOOR CEILING BELOW. SHOWN ON THIS PLAN FOR CLARITY. UPFEED TO THIRD FLOOR TERMINAL UNITS. SEE DETAIL 1/H503 FOR PIPING RISER DIAGRAM.

VRF AND DUCTLESS SPLIT SYSTEMS:

THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE MANUFACTURER'S REPRESENTATIVE FOR PURPOSES OF PROVIDING REFRIGERANT PIPING SIZING. SPECIFIED SYSTEM IS HEAT RECOVERY TYPE WHICH REQUIRES A THIRD REFRIGERANT PIPE FROM THE OUTDOOR UNIT. CONTRACTOR SHALL PROVIDE PIPING FROM RESPECTIVE OUTDOOR UNIT TO EACH NEW INDOOR UNIT, FOR COMPLETE AND OPERABLE SYSTEMS.

CONDENSATE PIPING.

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JOB AND COORDINATE HIS WORK WITH THE WORK
OF ALL OTHER CONTRACTORS

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CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705

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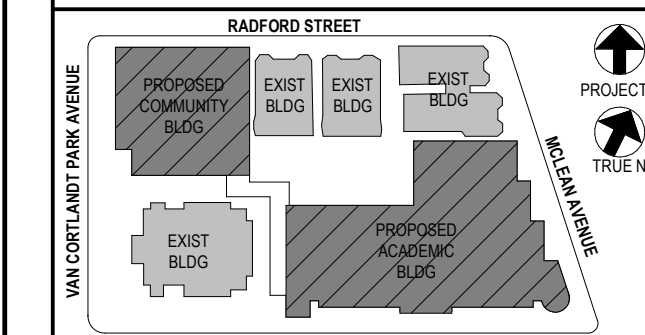
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HOT WATER PIPING:

HOT WATER SUPPLY AND RETURN LOOP SHOWN ON PLAN OUTSIDE OF MECHANICAL ROOM IS LOCATED IN THIRD FLOOR CEILING BELOW. SHOWN ON THIS PLAN FOR CLARITY. UPFEED TO FOURTH FLOOR TERMINAL UNITS. SEE DETAIL 1/H503 FOR PIPING RISER DIAGRAM

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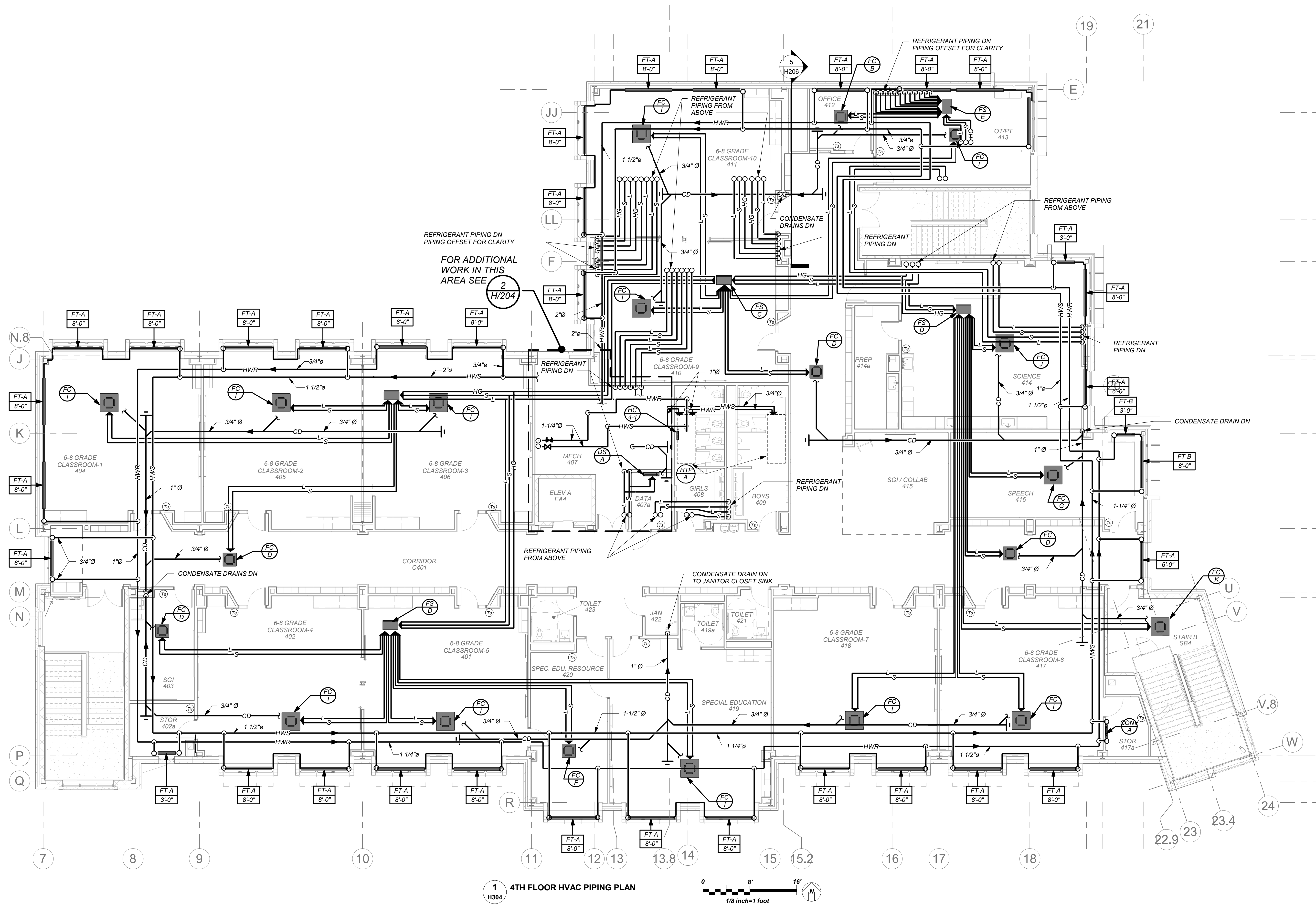
Job No.	Date
2019-1026	08/24/20

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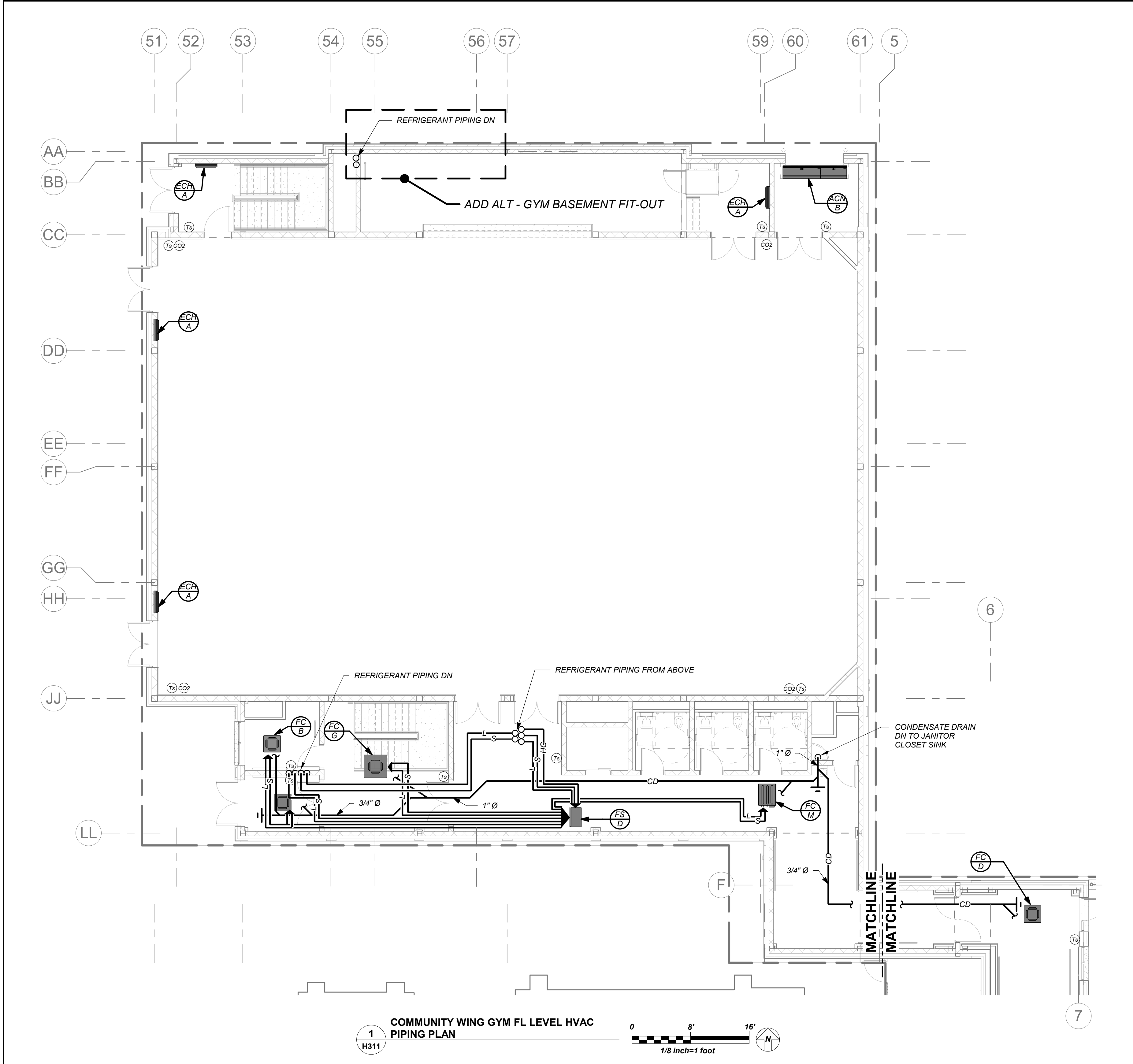
Sheet Number

H304



BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS OF JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

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NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705

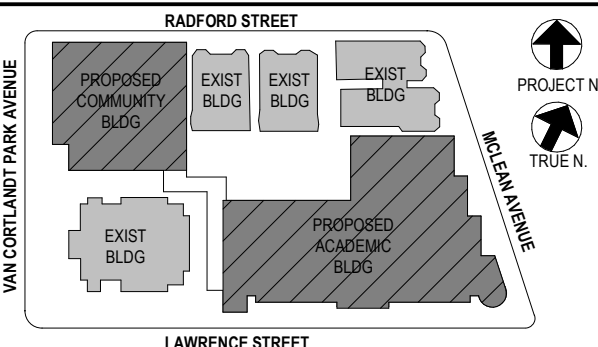


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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

No Date Issue



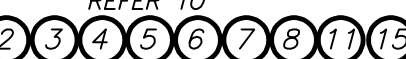









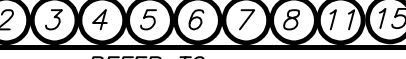







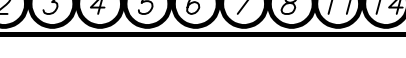
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






Community Wing 1st Floor Piping









Job No.	2019-1026	Date	10/19/21
Scale	AS NOTED	Drawn / Checked	BGA/ BGA

Sheet Number





H311

SCHEDULE OF INDOOR ENERGY RECOVERY UNITS																																									
MARK	BUILDING	SERVICE	LOCATION	MODEL No.	AIRFLOW CONDITIONS					SUPPLY FAN			EXHAUST FAN			ENTHALPY WHEEL				REMOTE HEAT PUMP UNIT DATA				DX HTG/CLG COIL DATA				FILTERS INTAKE RETURN	ELECTRICAL DATA			DIMENSIONS			WEIGHT LBS	REMARKS					
					O.A. CFM	E.A. CFM	R.A. CFM	S.AESP IN. WC	R.AESP IN. WC	TYPE	CFM	T.S.P. IN. WC	HP	TYPE	CFM	T.S.P. IN. WC	HP	L.A.T.SUMMER DEBT	L.A.T.WINTER DEBT	HP	MARK	DESCRIPTION				CAPACITY TOTAL/SEN.	VELOCITY F.P.M.		E.A.T. DB/WB	L.A.T. DB/WB	VOLTAGE	MCA	MOCP	L			W	H			
	ACADEMIC	1ST FLOOR CLASSROOMS	BASEMENT MECHANICAL	ERP-I-02-EW-D-TB	2560	2560	0	0.75	3.0	PLENUM	2560	1.0	5.0	CENTR.	2560	0.75	2.0	80.3	67.4	47.8	39.8	0.25		REFER TO SCHEDULE OF VRF AIR SOURCE HEAT PUMPS				138.0	144.0	500	80/67	52/52	MERV 13	208/3/60	18	25	140.0	55.0	55.0	3000	REFER TO 
	ACADEMIC	1ST FLOOR OFFICES	BASEMENT MECHANICAL	U-ERV-COIL-600	570	570	0	0.75	2.0	PLENUM	570	0.75	1.5	CENTR.	570	0.75	1.5	80	67.1	51.7	41.6	-		REFER TO SCHEDULE OF VRF AIR SOURCE HEAT PUMPS				30.0	22.2	500	79/67	55/54	MERV 13	208/3/60	15.2	20	40.0	32.0	24.0	1000	REFER TO 
	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	ACADEMIC	2ND FLOOR CLASSROOMS/OFFICES	MECHANICAL ROOM 2ND FLOOR	ERP-I-07-EW-D-TB	7500	7500	0	0.75	7.5	PLENUM	7500	1.0	10.0	CENTR.	7500	0.75	7.5	80.2	67.3	47.7	39.8	0.50		REFER TO SCHEDULE OF VRF AIR SOURCE HEAT PUMPS				336.0	248.7	500	80/67	52/52	MERV 13	208/3/60	55	80	140.0	86.0	92.0	5000	REFER TO 
	ACADEMIC	3RD FLOOR CLASSROOMS/OFFICES	MECHANICAL ROOM 3RD FLOOR	ERP-I-07-EW-D-TB	7400	7400	0	0.75	7.5	PLENUM	7400	1.0	10.0	CENTR.	7400	0.75	7.5	80.2	67.3	47.6	39.8	0.50		REFER TO SCHEDULE OF VRF AIR SOURCE HEAT PUMPS				336.0	248.7	500	80/67	52/52	MERV 13	208/3/60	55	80	140.0	86.0	92.0	5000	REFER TO 
	ACADEMIC	4TH FLOOR CLASSROOMS/OFFICES	MECHANICAL ROOM 4TH FLOOR	ERP-I-07-EW-D-TB	7920	7920	0	0.75	7.5	PLENUM	7920	1.0	10.0	CENTR.	7920	0.75	7.5	80.2	67.3	47.7	39.8	0.50		REFER TO SCHEDULE OF VRF AIR SOURCE HEAT PUMPS				336.0	248.7	500	80/67	52/52	MERV 13	208/3/60	61	80	140.0	86.0	92.0	5000	REFER TO 
	ACADEMIC	BASEMENT GENERAL VENTILATION	BASEMENT MECHANICAL	U-ERV-COIL-1200	1050	1050	0	0.50	2.0	PLENUM	1050	0.75	2.0	CENTR.	1050	0.75	2.0	80	67.1	51.7	41.6	-	-	PROVIDE 40,000 BTUH HOT WATER COIL				-	-	-	-	-	MERV 13	208/3/60	18	25	40.0	32.0	24.0	1000	REFER TO 
	COMMUNITY	BASEMENT TOILETS/LOCKERS	BASEMENT MECHANICAL	ERP-E-02-FP-D-TB	2400	2400	0	0.75	3.0	PLENUM	2400	0.75	3.0	CENTR.	2400	0.75	2.0	80	67.2	47.7	40.1	**		REFER TO SCHEDULE OF VRF AIR SOURCE HEAT PUMPS				96.0	71.1	500	80/67	52/52	MERV 13	208/3/60	17	25	140.0	55.0	55.0	3000	REFER TO 
<div>NOTES</div> <div><div>① AS MANUFACTURED BY "ANNEXAIR". (KLIMA NEW YORK 914 255-4390)</div><div>② FROST CONTROL BY V.F.D.</div><div>③ DESIGN AIR CONDITION: SUMMER O.A. (95°/75°) R.A. (75°/63°); WINTER O.A. (0°/0°) R.A. (70°/53°)</div><div>④ INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S SUPERVISION FOR FIELD INSTALLATION AND START-UP.</div><div>⑤ PROVIDE CUSTOM INDOOR ERU UNIT WITH STAGED DIRECT EXPANSION HEATING AND COOLING, MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, ENERGY RECOVERY WHEEL (**ERU-8 SHALL HAVE STATIC PLATE CORE WITH BYPASS), DIRTY FILTER CONTACTS, BLOWER SHAVE AND BELT FOR SELECTED STATIC USE, DISCONNECT SWITCH, VFD'S WITH PREMIUM EFFICIENCY MOTORS, PHASE MONITOR, 4" THICK MERV 13 PLEATED FILTERS (AS NOTED), VRF TYPE DIRECT EXPANSION COIL FOR HEAT PUMP DUTY, STAINLESS STEEL DRAIN PAN, HINGED ACCESS PANELS, BACNET COMPARABLE AUTOMATED CONTROLS (AS NOTED), PROVIDE FULL ECONOMIZER, DUAL ENTHALPY HUMIDITY SENSORS, RECIRCULATION DAMPER.</div><div>⑥ COIL SHALL BE VRF TYPE.</div><div>⑦ SPLIT-SYSTEM IS VRF TYPE HEAT PUMP.</div><div>⑧ REFRIGERANT R-410A.</div><div>⑨ AS MANUFACTURED BY "ENERGY WALL".</div><div>⑩ PROVIDE INDOOR ERU UNIT WITH HOT WATER HEATING COIL, MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, ENERGY RECOVERY CORE WITH BYPASS, DIRTY FILTER CONTACTS, DIRECT DRIVE BLOWER FOR SELECTED STATIC PRESSURE USE, DISCONNECT SWITCH, VFD'S WITH PREMIUM EFFICIENCY MOTORS, PHASE MONITOR, 4" THICK MERV 13 PLEATED FILTERS (AS NOTED), ACCESS PANELS, BACNET COMPARABLE AUTOMATED CONTROLS (AS NOTED), PROVIDE FULL ECONOMIZER, DUAL ENTHALPY HUMIDITY SENSORS, RECIRCULATION DAMPER.</div><div>⑪ PROVIDE EEV KIT AND COMMUNICATION KIT FOR D/X COIL OPERATION WITH LG VRF SYSTEM. KITS SHALL BE FACTORY INSTALLED.</div><div>⑫ PROVIDE EEV KIT AND COMMUNICATION KIT FOR D/X COIL OPERATION WITH LG VRF SYSTEM. KITS SHALL BE FIELD INSTALLED.</div><div>⑬ PROVIDE INDOOR ERU UNIT WITH STAGED DIRECT EXPANSION HEATING AND COOLING, MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, ENERGY RECOVERY CORE WITH BYPASS, DIRTY FILTER CONTACTS, DIRECT DRIVE BLOWER FOR SELECTED STATIC PRESSURE USE, DISCONNECT SWITCH, VFD'S WITH PREMIUM EFFICIENCY MOTORS, PHASE MONITOR, 4" THICK MERV 13 PLEATED FILTERS (AS NOTED), DIRECT EXPANSION VRF TYPE COIL FOR HEAT PUMP DUTY, ACCESS PANELS, BACNET COMPARABLE AUTOMATED CONTROLS (AS NOTED), PROVIDE FULL ECONOMIZER, DUAL ENTHALPY HUMIDITY SENSORS, RECIRCULATION DAMPER.</div><div>⑭ ADD ALTERNATE - GYM BASEMENT FITOUT.</div><div>⑮ ERU SHALL BE PROVIDED IN SECTIONS THAT CAN BE RIGGED INTO THE BUILDING THROUGH NORMAL OR TEMPORARY OPENINGS. COORDINATE WITH GC AND BUILDING CONSTRUCTION PHASES.</div></div>																																									

SCHEDULE OF OUTDOOR ENERGY RECOVERY UNITS																																									
MARK	BUILDING	SERVICE	LOCATION	MODEL No.	AIRFLOW CONDITIONS					SUPPLY FAN			EXHAUST FAN			ENTHALPY WHEEL				REMOTE HEAT PUMP UNIT DATA				DX HTG/CLG COIL DATA				FILTERS INTAKE RETURN	ELECTRICAL DATA			DIMENSIONS			WEIGHT LBS	REMARKS					
					O.A. CFM	E.A. CFM	R.A. CFM	S.AESP IN. WC	R.AESP IN. WC	TYPE	CFM	T.S.P. IN. WC	HP	TYPE	CFM	T.S.P. IN. WC	HP	L.A.T.SUMMER DEBT	L.A.T.WINTER DEBT	HP	MARK	DESCRIPTION				CAPACITY TOTAL/SEN. TONS	VELOCITY DB/WB F.P.M.		E.A.T. DB/WB F.P.M.	L.A.T. DB/WB F.P.M.	VOLTAGE	MCA	MOCP	L			W	H			
	ACADEMIC	CAFETERIA 290	ROOF	ERP-E-09-EW05-D	5400	5400	4600	0.75	7.5	PLENUM	10000	1.5	10.0	PLENUM	10000	1.0	7.5	80.1	67.2	47.6	39.8	0.25		REFER TO SCHEDULE OF VRF AIR SOURCE HEAT PUMPS				504	373	500	77.6	52	MERV 13	208/3/60	61	70	207	94.0	94.0	6,800	REFER TO 
	ACADEMIC	1ST, 2ND, 3RD, 4TH FLR. GANG TOILETS	ROOF	ERP-E-05-FP-D	5500	5500	0	1.5	1.0	PLENUM	5500	1.5	3.0	PLENUM	5500	1.0	5.0	79.8	67.4	47.7	39.8	-	-	-				-	-	-	-	-	MERV 13	208/3/60	40	50	96	56	54	3,000	REFER TO 
	COMMUNITY	GYMNASIUM	ROOF	ERP-E-12-EW05-D	6520	6520	3740	1.5	1.0	PLENUM	14,000	1.5	10.0	PLENUM	14,000	1.0	7.5	80.5	67.6	47.7	39.6	0.25		REFER TO SCHEDULE OF VRF AIR SOURCE HEAT PUMPS				549	388	500	82.1	52	MERV 13	208/3/60	88	100	207	104	105	7,000	REFER TO 
NOTES	① AS MANUFACTURED BY "ANNEXAIR". (KLIMA NEW YORK 914 255-4390)																																								
	② FROST CONTROL BY V.F.D.																																								
	③ PROVIDE CUSTOM ROOFTOP ERU UNIT WITH STAGED HEATING AND COOLING, MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, ENERGY RECOVERY WHEEL (**ERU-2 SHALL HAVE A STATIC PLATE HEAT EXCHANGER), DIRTY FILTER CONTACTS, SHAVE AND BELT FOR SELECTED STATIC USE, DISCONNECT SWITCH, VFD'S WITH PREMIUM EFFICIENCY MOTORS, POWERED CONVENIENCE OUTLET, PHASE MONITOR, 4" THICK MERV 13 PLEATED FILTERS (AS NOTED), STAINLESS STEEL DRAIN PAN, HINGED ACCESS PANELS, BACNET COMPARABLE AUTOMATED CONTROLS (AS NOTED), PROVIDE FIELD INSTALLED FULL ECONOMIZER, INTAKE AND EXHAUST HOODS, DUAL ENTHALPY HUMIDITY SENSORS, RECIRCULATION DAMPER.																																								
	④ INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S SUPERVISION FOR FIELD INSTALLATION AND START-UP.																																								
	⑤ PROVIDE POWERED 120 VOLT GFI SERVICE RECEPTACLE.																																								
	⑥ PROVIDE EEV KIT AND COMMUNICATION KIT FOR D/X COIL OPERATION WITH LG VRF SYSTEM. KITS SHALL BE FACTORY INSTALLED.																																								
	⑦ INSTALL ERU ON FULL CURB SUPPORT.																																								
	⑧ COORDINATE CURB HEIGHT WITH GC FOR MINIMUM 12" ABOVE ROOF.																																								
	⑨ COIL SHALL BE VRF TYPE.																																								
	⑩ SPLIT-SYSTEM IS VRF TYPE HEAT PUMP.																																								
	⑪ REFRIGERANT R-410A.																																								
	⑫ PROVIDE CUSTOM ROOFTOP ERU UNIT WITH, MOTORIZED CONTROL DAMPERS, DAMPER END SWITCHES, 100% ENTHALPY ECONOMIZER CONTROLS, FROST PROTECTION, STATIC PLATE ENERGY RECOVERY HEAT EXCHANGER, DIRTY FILTER CONTACTS, SHAVE AND BELT FOR SELECTED STATIC USE, DISCONNECT SWITCH, VFD'S WITH PREMIUM EFFICIENCY MOTORS, POWERED CONVENIENCE OUTLET, PHASE MONITOR, 4" THICK MERV 13 PLEATED FILTERS (AS NOTED), HINGED ACCESS PANELS, BACNET COMPARABLE AUTOMATED CONTROLS (AS NOTED), PROVIDE FIELD INSTALLED FULL ECONOMIZER, INTAKE AND EXHAUST HOODS, DUAL ENTHALPY HUMIDITY SENSORS, RECIRCULATION DAMPER.																																								

SCHEDULE OF ELECTRIC AIR CURTAINS									
MARK	MODEL No.	CAPACITY DATA				ELECTRIC SERVICE	PHYSICAL DATA		REMARKS
		BTU/HR	AMPS	KW	CFM		LxWxH (IN)	WEIGHT (LBS)	
	E100	13,650	11.1	4.0	1088	208/3/60	42X12X21	120	REFER TO 
	E100	13,650	11.1	4.0	1088	208/3/60	62X12X21	140	REFER TO 
	E150	27,300	22.2	8.0	1854	208/3/60	82X12X21	160	REFER TO 
	E150	13,650	11.1	4.0	1854	208/3/60	42X12X21	120	REFER TO 
NOTES ① AS MANUFACTURED BY "WING". (KLIMA NEW YORK 914 255-4390) ② INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ③ PROVIDE UNIT MOUNTED SPEED CONTROLLER AND ALL MOUNTING STEEL AND HARDWARE. ④ QUANTITIES AS IDENTIFIED ON HVAC DRAWINGS. ⑤ PROVIDE ALL POWER RELAYS AND BACNET CONTROLLER.									

SCHEDULE OF VRF FLOW SELECTOR UNITS									
MARK	MODEL No. ①	CAPACITY DATA (BTU/HR)			MCA	ELECTRIC SERVICE	PHYSICAL DATA		REMARKS
		UNIT	PORTS	EACH PORT			LxWxH (IN)	WEIGHT (LBS)	
Ⓜ A	PRHR02.3A	120,000	2	60,000	0.17	208/1/60	19X19X9	35	REFER TO Ⓜ A
Ⓜ B	PRHR03.3A	180,000	3	60,000	0.17		19X19X9	38	REFER TO Ⓜ B
Ⓜ C	PRHR04.3A	230,000	4	60,000	0.17		19X19X9	40	REFER TO Ⓜ C
Ⓜ D	PRHR06.3A	230,000	6	60,000	0.27		31X19X9	60	REFER TO Ⓜ D
Ⓜ E	PRHR08.3A	230,000	8	60,000	0.27	↓	31X19X9	68	REFER TO Ⓜ E
<div>NOTES</div> <div>① AS MANUFACTURED BY "LG." (KLIMA NEW YORK 914 255-4390)</div> <div>② INSTALL PER MANUFACTURER'S RECOMMENDATIONS.</div> <div>③ REFRIGERANT R-410A.</div> <div>④ PROVIDE MOUNTING HARDWARE. MOUNT UNIT HORIZONTALLY.</div>									

SCHEDULE OF ELECTRIC CABINET HEATERS										
MARK	MODEL No. ①	CAPACITY DATA			MOTOR WATTS	ELECTRIC SERVICE	PHYSICAL DATA		MTG.	REMARKS
		BTU/HR	AMPS	KW			LxWxH (IN)	WEIGHT (LBS)		
	MFQ800B	27,368	38.5	8.0	50	208/1/60	32X23X4	50	WALL	REFER TO 
	FFCHRENW	17,060	24.0	5.0	50	208/1/60	23X23X7	50	CLG.	REFER TO 

NOTES

① AS MANUFACTURED BY "MARKLEY BERKO".

② QUANTITIES AS IDENTIFIED ON HVAC DRAWINGS.

③ INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

④ PROVIDE ALL POWER RELAYS AND CABINET CONTROLLER.

⑤ PROVIDE UNIT MOUNTED VARIABLE SPEED CONTROLLER AND MOUNTING HARDWARE.

SCHEDULE OF VENTILATION AIR FANS									
MARK	SERVICE	LOCATION	TYPE	MODEL No. ①	CFM	TOT. S.P. IN H ₂ O	HP	ELECTRIC SERVICE	REMARKS
(SP-1)	VENTILATION AIR	COMMUNITY FIRST FLOOR CEILING	IN-LINE FAN	CSP-A510-VG	220	0.50	1/3	120/1/60	REFER TO ②③④
(SP-2)	VENTILATION AIR	ACADEMIC FIRST FLOOR CEILING	IN-LINE FAN	CSP-A510-VG	250	0.50	1/3	120/1/60	REFER TO ②③④
NOTES ① AS MANUFACTURED BY "GREENHECK". ② INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ③ INTAKE PLENUM SHALL BE INSULATED. ④ PROVIDE FAN WITH VARI-GREEN MOTOR SPEED CONTROL, OR EQUAL.									

SCHEDULE OF CABINET HEATERS									
MARK	TYPE UNIT	MODEL No. ①	CAPACITY DATA			MOTOR WAITS	MOTOR RPM	ELECTRIC SERVICE	REMARKS
			MBH	CFM	GPM	PD.FT.			
(CH-A)	CEILING MTD.	RC 1170 06	20.6	335	2.0	0.25	1/15	1050	120/1/60
(CH-B)	RECESSED WALL	RW 1120 06	20.6	335	2.0	0.25	1/15	1050	120/1/60
NOTES ① AS MANUFACTURED BY "STERLING". ② INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ③ CAPACITIES BASED ON LOW SPEED FAN SETTING, AND 112 A.W.T. ④ PROVIDE 2 ROW COIL, THROWAWAY FILTERS, INTEGRAL SPEED CONTROL, DISCONNECT SWITCH, REMOTE WALL SENSOR CONNECTED TO BMS, GASKET AND PERMA LAP FRAME. COORDINATE FINISH AND COLOR WITH ARCHITECT. ⑤ UNIT DIMENSIONS 36"x25"x9.5", WEIGHT 150 LBS. ⑥ PROVIDE WITH HOT WATER RETURN AQUASTAT. AQUASTAT SHALL NOT ALLOW FAN TO OPERATE AT WATER TEMPERATURE BELOW 98 DEGREES F.									

SCHEDULE OF DUCT MOUNTED HOT WATER HEATING COILS												
MARK	BUILDING	SERVICE	H ₂ O DENSITY BTU/LHR	EAT. (°F)	LAT. (°F)	EWI (°F)	UNIT. (°F)	GPM	CFM	COIL FACE AREA SQ.FT.	COIL FACE VELOC.FPM	ROWS
(HC-1)	ACADEMIC	FIRST FLOOR GANG TOILET ROOMS	52,000	20	80	122	102	5.0	800	1.6	500	2
(HC-2)	ACADEMIC	SECOND FLOOR GANG TOILET ROOMS	52,000	20	80	122	102	5.0	800	1.6	500	2
(HC-3)	ACADEMIC	THIRD FLOOR GANG TOILET ROOMS	52,000	20	80	122	102	5.0	800	1.6	500	2
(HC-4)	ACADEMIC	FOURTH FLOOR GANG TOILET ROOMS	52,000	20	80	122	102	5.0	800	1.6	500	2
NOTES ① AS MANUFACTURED BY "NATIONWIDE COILS INC.". ② AIR PRESSURE DROP ACROSS COIL SHALL NOT EXCEED 0.30" S.P. ③ INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ④ COIL SHALL BE MINIMUM 2 ROWS WITH MINIMUM OF 8 FINS PER INCH. ⑤ 5/8" TUBE AND ALUMINUM FINS. ⑥ GALVANIZED PITCHED CASING.												

SCHEDULE OF CEILING RADIANT PANELS									
MARK	MODEL No. ①	SIZE			CAPACITY DATA ②			REMARKS	
		WIDTH (IN.)	LENGTH (IN.)	FACE AREA (FT²)	BTU/H	GPM	PRESS. DROP Δ HEAD (FT)		
(HCP-A)	TYPE LRP	24	96	8	4 MINIMUM	3500	0.5	1 FT. MAX	REFER TO ③④⑤
NOTES ① AS MANUFACTURED BY "STERLING". ② ENTERING WATER TEMPERATURE 122°F, 20° ΔT. ③ INSTALL PER THE MANUFACTURER'S INSTRUCTIONS. ④ CEILING GRID MOUNTED PANEL.									

SCHEDULE OF REGISTERS AND DIFFUSERS									
MARK	TYPE	SERVICE	MODEL No. ①	DIRECTION DISCHARGE	DAMPER TYPE	FINISH	TYPE	REMARKS	
(A)	CEILING DIFFUSER	SUPPLY	SCD	4-WAY	OPPOSED BLADE	PER ARCH.	LAY IN	REFER TO ②③④	
(B)	CEILING REGISTER	RETURN	635	—	—	—	LAY IN	REFER TO ②③④	
(C)	CEILING REGISTER	EXHAUST	635	—	—	—	LAY IN	REFER TO ②③④	
(D)	SIDEWALL REGISTER	EXHAUST	96	—	—	—	SURFACE	REFER TO ②③④⑦	
(E)	SIDEWALL REGISTER	SUPPLY	920	DOUBLE DEFLECTION	—	—	SURFACE	REFER TO ②③④⑥⑦	
(F)	CIRCULAR DIFFUSER	SUPPLY	RCDA	360 DEGREE ADJUSTABLE THROW	BUTTERFLY	—	FREE HANG	REFER TO ②③④⑥⑦⑧	
(G)	SIDEWALL REGISTER	RETURN	96	—	OPPOSED BLADE	—	SURFACE	REFER TO ②③④⑦	
NOTES ① AS MANUFACTURED BY "PRICE". ② INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ③ PROVIDE MOUNTING FRAME COMPATIBLE W/ MOUNTING SURFACE. COORDINATE ALL BORDER TYPES, COLORS, FINISHES AND DIMENSIONS WITH ARCHITECT. ④ STEEL, HEAVY DUTY TYPE. ⑤ EQUALIZER GRID.									

SUPPLY NECK SIZE PER CFM RANGE (NOT TO EXCEED 500 fpm)									
50 TO 99	100 TO 299	300 TO 499	500 TO 799	800 TO 1199	1200 TO 1499	1500 TO 1999	2000 TO 2499	2500 TO 2999	3000 TO 3499
6x6	9x9	12x12	15x15	18x18	21x21	24x24	27x27	30x30	36x36

RETURN NECK SIZE PER CFM RANGE (NOT TO EXCEED 675 fpm)									
50 TO 149	150 TO 249	250 TO 349	350 TO 449	450 TO 549	550 TO 649	650 TO 749	750 TO 849	850 TO 949	950 TO 1049
6x6	8x8	10x10	12x12	14x14	16x16	18x18	20x20	22x22	24x24

SCHEDULE OF VRF DUCTLESS AIR SOURCE HEAT RECOVERY OUTDOOR UNITS															
GENERAL DATA					OUTDOOR CONDENSING UNIT INFORMATION						ELECTRICAL INFORMATION			COP	REMARKS
MARK	BUILDING	SERVICE	LOCATION	MODEL No. ①	COOLING CAPACITY BTU/HR	HEATING CAPACITY BTU/HR	QTY.	MOTOR OUTPUT (KW)	(QTY.) & HP	MOTOR OUTPUT (KW)	V/PH/HZ	MCA	MOCP		
(HU-1)	ACADEMIC	FIRST FLOOR ERU-1	ROOF	MULTI VS ARUM144 BTE5	144,000	162,000	2	8.0X2	2	1.0+1.0	208/3/60	51.1	70	3.2	REFER TO ②③④⑤
(HU-2)	ACADEMIC	FIRST FLOOR ERU-2	ROOF	MULTI VS ARUN38 GSS4	38,000	42,000	1	8.0X1	2	1.0+1.0	208/1/60	25.0	40	3.2	REFER TO ②③④⑤
(HU-3)	NOT USED	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(HU-4)	ACADEMIC	FIRST FLOOR VRF INDOOR UNITS	ROOF	MULTI VS ARUM241 BTE5	233,000	243,000	2	8.0X2	2	1.0+1.0	208/3/60	63.2	80	3.2	REFER TO ②③④⑤
(HU-5)	ACADEMIC	SECOND FLOOR ERU-4	ROOF	MULTI VS ARUM408 BTE5	408,000	459,000	3	8.0X3	4	1.0+1.0+1.0+1.0	208/3/60	57.9+60.3	80+80	3.2	REFER TO ②③④⑤
(HU-6)	ACADEMIC	SECOND FLOOR VRF INDOOR UNITS	ROOF	MULTI VS ARUM456 BTE5	456,000	513,000	4	8.0X4	6	1.0+1.0+1.0+1.0+1.0+1.0	208/3/60	30.9+30.9+60.3	40+40+80	3.2	REFER TO ②③④⑤
(HU-7)	ACADEMIC	THIRD FLOOR ERU-5	ROOF	MULTI VS ARUM408 BTE5	408,000	459,000	3	8.0X3	4	1.0+1.0+1.0+1.0	208/3/60	57.9+60.3	80+80	3.2	REFER TO ②③④⑤
(HU-8)	ACADEMIC	THIRD FLOOR VRF INDOOR UNITS	ROOF	MULTI VS ARUM456 BTE5	455,700	513,000	4	8.0X4	6	1.0+1.0+1.0+1.0+1.0+1.0	208/3/60	30.9+30.9+60.3	40+40+80	3.2	REFER TO ②③④⑤
(HU-9)	ACADEMIC	FOURTH FLOOR ERU-6	ROOF	MULTI VS ARUM408 BTE5	408,000	459,000	3	8.0X3	4	1.0+1.0+1.0+1.0	208/3/60	57.9+60.3	80+80	3.2	REFER TO ②③④⑤
(HU-10)	ACADEMIC	FOURTH FLOOR VRF INDOOR UNITS	ROOF	MULTI VS ARUM480 BTE5	476,000	540,000	5	8.0X5	6	1.0+1.0+1.0+1.0+1.0+1.0	208/3/60	30.9+51.1+60.3	40+70+80	3.2	REFER TO ②③④⑤
(HU-11)	ACADEMIC	FIRST FLOOR CAFETERIA ERUO-1	ROOF	MULTI VS ARUM504 BTE5	504,000	567,000	5	8.0X5	6	1.0+1.0+1.0+1.0+1.0+1.0	208/3/60	30.9+53.6+60.3	40+70+80	3.2	REFER TO ②③④⑤
(HU-12)	ACADEMIC	HOT WATER HEATING SUPPLY	ROOF	MULTI VS ARUM504 BTE5	COOLING NOT USED	567,000	4	8.0X4	6	1.0+1.0+1.0+1.0+1.0+1.0	208/3/60	30.9+53.6+60.3	40+70+80	3.2	REFER TO ②③④⑤
(HU-13)	ACADEMIC	HOT WATER HEATING SUPPLY	ROOF	MULTI VS ARUM504 BTE5	COOLING NOT USED	567,000	4	8.0X4	6	1.0+1.0+1.0+1.0+1.0+1.0	208/3/60	30.9+53.6+60.3	40+70+80	3.2	REFER TO ②③④⑤
(HU-14)	ACADEMIC	FIRST FLOOR MEDICAL SUITE INDOOR UNITS	ROOF	MULTI VS ARUM144 BTE5	144,000	162,000	2	8.0X2	1	1.0+1.0	208/3/60	51.1	70	3.4	REFER TO ②③④⑤
(HU-15)	ACADEMIC	SECOND, THIRD, FOURTH FLOOR OFFICES	ROOF	MULTI VS ARUM072 BTE5	72,000	81,000	1	8.0X1	1	1.0	208/1/60	22.6	35	3.4	REFER TO ②③④⑤
(HU-16)	COMMUNITY	GYMNASIUM ERUO-3	ROOF	MULTI VS ARUM504 BTE5	504,000	567,000	5	8.0X5	6	1.0+1.0+1.0+1.0+1.0+1.0	208/3/60	30.9+53.6+60.3	40+70+80	3.2	REFER TO ②③④⑤
(HU-17)	COMMUNITY	TLTS./LCKRS/LOBBY/OFFICES	ROOF	MULTI VS ARUM121 BTE5	119,700	135,000	1	8.0X1	1	1.0	208/3/60	30.9	40	3.4	REFER TO ②③④⑤
(HU-18)	COMMUNITY	TLTS./LCKRS/ERU-8	ROOF	MULTI VS ARUM216 BTE5	216,100	243,000	2	8.0X2	2	1.0+1.0	208/3/60	60.3	80	3.2	REFER TO ②③④⑤⑥
NOTES	① AS MANUFACTURED BY "LG".														
	② COOLING BASED ON A.R.I. CONDITIONS.														
	③ INSTALL PER MANUFACTURER'S RECOMMENDATIONS.														
	④ PROVIDE PROGRAMMABLE THERMOSTAT, LOW AMBIENT CONTROL, HARD START, CRANKCASE HEATER, DISCONNECT SWITCH. THE VRF SYSTEM SHALL BE ABLE TO INTEGRATE WITH THE BUILDING MANAGEMENT SYSTEM VIA BACNET IP GATEWAY. THIS GATEWAY CONVERTS BETWEEN BACNET IP OR MODBUS TCP PROTOCOL, AND RS-485 LGAP (LG AIRCON PROTOCOL) ALLOWING THIRD PARTY CONTROL AND MONITORING OF THE LG A/C SYSTEM, OR LONWORKS GATEWAYS.														
	⑤ PROVIDE DC INVERTER COMPRESSOR SPEED CONTROL BASED ON SYSTEM LOAD.														
	⑥ ADD ALTERNATE - GYM BASEMENT FITOUT.														

SCHEDULE OF EXHAUST FANS														
MARK	BUILDING	SERVICE	LOCATION	MODEL # ①	TYPE	CFM	EXT. S.P. IN H ₂ O	RPM	HP (WATTS)	ELECTRIC V/PH/HZ	SIZE (IN)	WEIGHT (LBS.)	REMARKS	
(EF-1)	ACADEMIC	ART STORAGE/ SCIENCE PREP ROOM	ROOF	G-097-VG	CENTRIFUGAL	250	0.50	1550	1/4	120/1/60	19x19x24	60	REFER TO ②③	
(EF-2)	ACADEMIC	FIRST FLOOR RECEIVING TOILET	CEILING	SP-A130-VG	CEILING CABINET	100	0.25	960	(25)	120/1/60	14x11x9	15	REFER TO ②③	
(EF-3)	ACADEMIC	FIRST FLOOR RECEIVING	RECEIVING	GSPA-A390-VG	IN-LINE CENTRIFUGAL	200	0.25	1260	(98)	120/1/60	14x12x12	25	REFER TO ②③	
(EF-4)	ACADEMIC	FIRST FLOOR LOADING DOCK	LOADING DOCK	GSPA-A390-VG	IN-LINE CENTRIFUGAL	200	0.25	1260	(98)	120/1/60	14x12x12	25	REFER TO ②③	
(EF-5)	ACADEMIC	FIRST FLOOR KITCHEN HOOD	ROOF	CUBE-200HP	UP-BLAST CENTRIF.	4000	2.0	1600	3.0	208/3/60	30x30x28	150	REFER TO ②③④⑤	
(EF-6)	ACADEMIC	FIRST/SECOND FLOOR TOILET EAST	ROOF	G-097-VG	CENTRIFUGAL	200	0.50	1550	1/4	120/1/60	19x19x24	60	REFER TO ②③	
(EF-7)	ACADEMIC	FIRST FLOOR NURSE TOILET/JAN. CLST.	CEILING	GSPA-A125	IN-LINE CENTRIFUGAL	150	0.25	980	(23)	120/1/60	13x10x9	20	REFER TO ②③	
(EF-8)	ACADEMIC	FIRST FLOOR FACULTY TOILETS	CEILING	GSPA-A390-VG	IN-LINE CENTRIFUGAL	300	0.25	1260	(98)	120/1/60	14x12x12	25	REFER TO ②③	
(EF-9)	ACADEMIC	FIRST/SECOND FLR. TOILETS/JAN. CLST. WEST	ROOF	G-097-VG	CENTRIFUGAL	250	0.50	1580	1/4	120/1/60	19x19x24	60	REFER TO ②③	
(EF-10)	ACADEMIC	FIRST FLOOR FACULTY KITCHENETTE	CEILING	GSPA-A390-VG	IN-LINE CENTRIFUGAL	300	0.25	1260	(98)	120/1/60	14x12x12	25	REFER TO ②③	
(EF-11)	ACADEMIC	SECOND FLOOR TECHNOLOGY/MAKER SPACE	ROOF	G-097-VG	CENTRIFUGAL	250	0.50	1580	1/4	120/1/60	19x19x24	60	REFER TO ②③	
(EF-12)	COMMUNITY	STORAGE	CEILING	GSPA-A390-VG	IN-LINE CENTRIFUGAL	200	0.50	1550	(98)	120/1/60	14x12x12	25	REFER TO ②③	
(EF-13)	COMMUNITY	1ST FLOOR TOILETS	ROOF	G-098-VG	CENTRIFUGAL	350	0.50	1200	1/4	120/1/60	19x19x24	60	REFER TO ②③	
(EF-14)	ACADEMIC	FIRST FLOOR NURSE	CEILING	GSPA-A390-VG	IN-LINE CENTRIFUGAL	250	0.50	1550	(98)	120/1/60	14x12x12	25	REFER TO ②③	
NOTES ① AS MANUFACTURED BY "GREENHECK". ② INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ③ PROVIDE ROOF CURB, FACTORY MOUNTED NEMA 3P DISCONNECT, INTERNALLY MOUNTED VARIABLE SPEED CONTROLLER AND MOTORIZED DAMPER. ④ PROVIDE ROOF CURB WITH VENTED EXTENSION, HINGED BASE KIT, AUTOMATIC BELT TENSIONER, WEATHER PROOF FACTORY MOUNTED DISCONNECT SWITCH. ⑤ PROVIDE ONE WALL MOUNTED EMERGENCY ON/OFF SWITCH TO DEACTIVATE EXHAUST FAN AND MAKE-UP AIR UNIT SUPPLY FAN. LABEL FAN SWITCH AS FOLLOWS: EMERGENCY EXHAUST FAN/MAKE-UP AIR UNIT SHUT DOWN. ⑥ PROVIDE VIBRATION ISOLATORS, BACKDRAFT DAMPER, SPEED CONTROL, DISCONNECT SWITCH.														

SCHEDULE OF VRF DUCTLESS HEAT RECOVERY INDOOR UNITS											
GENERAL DATA			INDOOR AIR HANDLER INFORMATION						REMARKS		
MARK	LOCATION	MODEL NO. ①	SUPPLY FAN DATA			COOLING COIL DATA ②					
			HIGH CFM	MOTOR (AMPS)	ELECTRIC SERVICE	TOTAL CAP. BTU/HR	SENSIBLE CAP. BTU/HR	ENT. AIR TEMP. DB/WR	TOTAL CAP. BTU/HR	ENT. AIR TEMP.	
①	CEILING	ARNU053TRD4	265	0.20	208/1/60	5,500	4,100	80	6,100	70	REFER TO ②③④⑤
②		ARNU073TRD4	265	0.20		7,500	5,750		8,500		REFER TO ②③④⑤
③		ARNU093TRD4	283	0.20		9,600	7,100		10,900		REFER TO ②③④⑤
④		ARNU123TRD4	307	0.20		12,300	9,100		13,600		REFER TO ②③④⑤
⑤		ARNU153TN4	530	0.56		15,400	11,400		17,100		REFER TO ②③④⑤
⑥		ARNU183TN4	565	0.56		19,100	14,200		21,500		REFER TO ②③④⑤
⑦		ARNU243TN4	742	0.56		24,200	17,900		27,300		REFER TO ②③④⑤
⑧		ARNU283TN4	812	1.3		28,000	20,700		31,500		REFER TO ②③④⑤
⑨		ARNU363TN4	918	1.3		36,200	26,800		40,600		REFER TO ②③④⑤
⑩		ARNU423TMC4	1,060	1.3		42,000	31,000		43,800		REFER TO ②③④⑤
⑪		ARNU123M2A4	512	2.3		12,300	9,100		13,600		REFER TO ②③④⑤
⑫		ARNU243M2A4	512	2.3		24,200	17,900		27,300		REFER TO ②③④⑤
⑬		ARNU283M2A4	1,250	2.3		28,000	20,700		31,500		REFER TO ②③④⑤⑥
⑭	FLOOR MOUNT	ARNU24CF4	635	0.97		24,200	17,800		27,300		REFER TO ②③④⑤⑥
NOTES	① AS MANUFACTURED BY "LG."					THE VRF SYSTEM SHALL BE ABLE TO INTEGRATE WITH THE BUILDING MANAGEMENT SYSTEM VIA BACNET IP GATEWAY. THIS GATEWAY CONVERTS BETWEEN BACNET IP OR MODBUS TCP PROTOCOL, AND RS-485 LOOP (LG AIRCON PROTOCOL) ALLOWING THIRD PARTY CONTROL AND MONITORING OF THE LG A/C SYSTEM, OR LOWVOLTAGE GATEWAYS.					
	② INSTALL PER MANUFACTURER'S RECOMMENDATIONS.										
	③ BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A.										
	④ PROVIDE FACTORY MOUNTED INTEGRAL CONDENSATE PUMP, CHECK VALVE, ANTI SWEAT SLEEVE AND AUTO SHUTDOWN OVERFLOW SWITCH.										
	⑤ PROVIDE MOUNTING HARDWARE, VIBRATION ISOLATORS, DISCONNECT AND HARDWIRED REMOTE WALL MOUNTED CONTROLLER/THERMOSTAT.					⑥ PROVIDE FACTORY MOUNTED INTEGRAL CONDENSATE PUMP, CONDENSATE DRAIN PIPING, PIPING ENCLOSURE KIT AND AUTO SHUTDOWN OVERFLOW SWITCH.					

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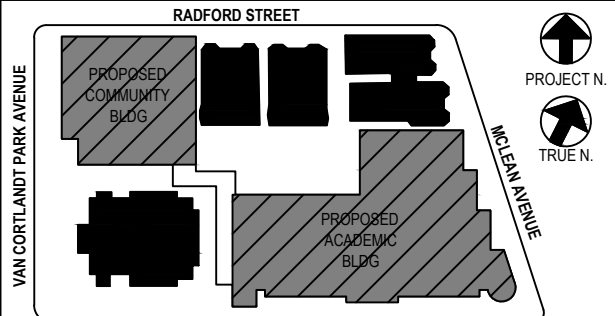
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66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS



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Professional Seal

4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN
No.	Date	Issue

SCHEDULES

Job No.	2019-1026	Date	11/18/20
Scale	AS NOTED	Drawn / Checked	BGA/BGA
Sheet Number	H402		

ACADEMIC BUILDING THIRD FLOOR - SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A ROOM AREA (SQ.FT.)	B PEOPLE DENSITY (#/P1000 SQ.FT.) / # OF FIXTURES	C PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	D AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	F NUMBER OF PEOPLE (A+B)*1000#P	G OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F+C)*(A+D)=CFM	H ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	I MINIMUM ROOM VENTILATION AIR FLOW RATE G+H=CFM	MINIMUM EXHAUST AIR FLOW RATE A+E=CFM
4th Grade Classroom- 2 301	CLASSROOM (AGES 9+)	805	35	10	0.12	0	29	387	0.8	483	0
4th Grade Classroom- 1 302	CLASSROOM (AGES 9+)	810	35	10	0.12	0	29	387	0.8	484	0
SGI 303	OFFICE SPACE	275	5	5	0.06	0	2	27	0.8	33	0
Janitor's Closet 303a	JANITOR CLOSETS, TRASH ROOMS, RECYCLING	30	0	0	0	1	0	0	0.8	0	30
3rd Grade Classroom- 1 304	CLASSROOM (AGES 9+)	790	35	10	0.12	0	28	375	0.8	469	0
3rd Grade Classroom- 2 305	CLASSROOM (AGES 9+)	820	35	10	0.12	0	29	388	0.8	486	0
3rd Grade Classroom- 3 306	CLASSROOM (AGES 9+)	855	35	10	0.12	0	30	403	0.8	503	0
Mech 307	WOOD/METAL SHOP	450	20	10	0.18	0.5	9	171	0.8	214	225
Data 307a	COMPUTER LAB	65	25	10	0.12	0	2	28	0.8	35	0
Girls's Toilet 308	CELL W/ TOILET	210	25	5	0.12	1	6	55	0.8	69	210
Boys's Toilet 309	CELL W/ TOILET	215	25	5	0.12	1	6	56	0.8	70	215
5th Grade Classroom- 2 310	CLASSROOM (AGES 9+)	790	35	10	0.12	0	28	375	0.8	469	0
5th Grade Classroom- 3 311	CLASSROOM (AGES 9+)	845	35	10	0.12	0	30	401	0.8	502	0
Office 312	OFFICE SPACE	110	5	5	0.06	0	1	12	0.8	15	0
SGI 313	OFFICE SPACE	440	5	5	0.06	0	3	41	0.8	52	0
Art 314	ART CLASSROOM	1020	20	10	0.18	0.7	21	394	0.8	492	714
Storage 314a	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	90	2	5	0.06	0	1	10	0.8	13	0
Kim 314b	ART CLASSROOM	50	20	10	0.18	0.7	1	19	0.8	24	35
SGI/Collab 315	OFFICE SPACE	300	5	5	0.06	0	2	28	0.8	35	0
Vestibule 316	LOBBIES/PREFUNCTION	80	30	7.5	0.06	0	3	27	0.8	34	0
Counseling 316a	OFFICE SPACE	155	5	5	0.06	0	1	14	0.8	18	0
Counseling 316b	OFFICE SPACE	110	5	5	0.06	0	1	12	0.8	15	0
Counseling 316c	OFFICE SPACE	150	5	5	0.06	0	1	14	0.8	18	0
5th Grade Classroom- 1 317	CLASSROOM (AGES 9+)	795	35	10	0.12	0	28	375	0.8	469	0
4th Grade Classroom- 3 318	CLASSROOM (AGES 9+)	805	35	10	0.12	0	29	387	0.8	483	0
Music 319	MUSIC/THEATRE/DANCE	990	35	10	0.06	0	35	409	0.8	512	0
Vestibule 319a	LOBBIES/PREFUNCTION	65	30	7.5	0.06	0	2	19	0.8	24	0
Music Storage 319b	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	105	2	5	0.06	0	1	11	0.8	14	0
Vestibule 319c	LOBBIES/PREFUNCTION	55	30	7.5	0.06	0	2	18	0.8	23	0
Toilet 320	CELL W/ TOILET	65	25	5	0.12	1	2	18	0.8	22	65
Toilet 321	CELL W/ TOILET	65	25	5	0.12	1	2	18	0.8	22	65
Corridor C301	CORRIDORS	2029	0	0	0.06	0	0	122	0.8	152	0
Corridor C302	CORRIDORS	435	0	0	0.06	0	0	26	0.8	33	0

ACADEMIC BUILDING FOURTH FLOOR - SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A ROOM AREA (SQ.FT.)	B PEOPLE DENSITY (#/P1000 SQ.FT.) / # OF FIXTURES	C PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	D AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	F NUMBER OF PEOPLE (A+B)*1000#P	G OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F+C)*(A+D)=CFM	H ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	I MINIMUM ROOM VENTILATION AIR FLOW RATE G+H=CFM	MINIMUM EXHAUST AIR FLOW RATE A+E=CFM
6-8 Grade Classroom- 5 401	CLASSROOM (AGES 9+)	775	35	10	0.12	0	28	373	0.8	466	0
6-8 Grade Classroom- 4 402	CLASSROOM (AGES 9+)	775	35	10	0.12	0	28	373	0.8	466	0
Storage 402a	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	100	2	5	0.06	0	1	11	0.8	14	0
SGI 403	OFFICE SPACE	200	5	5	0.06	0	1	17	0.8	21	0
6-8 Grade Classroom- 1 404	CLASSROOM (AGES 9+)	770	35	10	0.12	0	27	362	0.8	453	0
6-8 Grade Classroom- 2 405	CLASSROOM (AGES 9+)	780	35	10	0.12	0	28	374	0.8	467	0
6-8 Grade Classroom- 3 406	CLASSROOM (AGES 9+)	830	35	10	0.12	0	30	400	0.8	500	0
Mech 407	WOOD/METAL SHOP	440	20	10	0.18	0.5	9	169	0.8	212	220
Data 407a	COMPUTER LAB	65	25	10	0.12	0	2	28	0.8	35	0
Girls's Toilet 408	CELL W/ TOILET	200	25	5	0.12	1	5	49	0.8	61	200
Boys's Toilet 409	CELL W/ TOILET	205	25	5	0.12	1	6	55	0.8	68	205
6-8 Grade Classroom- 9 410	CLASSROOM (AGES 9+)	780	35	10	0.12	0	28	374	0.8	467	0
6-8 Grade Classroom- 10 411	CLASSROOM (AGES 9+)	835	35	10	0.12	0	30	400	0.8	500	0
Office 412	OFFICE SPACE	110	5	5	0.06	0	1	12	0.8	15	0
OTPT 413	DAYCARE SICKROOM	435	25	10	0.18	0	11	188	0.8	235	0
Science 414	SCIENCE LABORATORIES	940	25	10	0.18	1	24	409	0.8	512	940
Prep 414a	SCIENCE LABORATORIES	150	25	10	0.18	1	4	67	0.8	84	150
SGI/Collab 415	OFFICE SPACE	300	5	5	0.06	0	2	28	0.8	35	0
Speech 416	CLASSROOM (AGES 9+)	495	35	10	0.12	0	18	239	0.8	289	0
6-8 Grade Classroom- 8 417	CLASSROOM (AGES 9+)	770	35	10	0.12	0	27	362	0.8	453	0
6-8 Grade Classroom- 7 418	CLASSROOM (AGES 9+)	770	35	10	0.12	0	27	362	0.8	453	0
Special Education 419	CLASSROOM (AGES 9+)	770	35	10	0.12	0	27	362	0.8	453	0
Toilet 419a	CELL W/ TOILET	55	25	5	0.12	1	2	17	0.8	21	55
Special Ed. Resource 420	CLASSROOM (AGES 9+)	360	35	10	0.12	0	13	173	0.8	217	0
Toilet 421	CELL W/ TOILET	60	25	5	0.12	1	2	17	0.8	22	60
Janitor's Closet 422	JANITOR CLOSETS, TRASH ROOMS, RECYCLING	35	0	0	0	1	0	0	0.8	0	35
Toilet 423	CELL W/ TOILET	55	25	5	0.12	1	2	17	0.8	21	55
Corridor C401	CORRIDORS	2785	0	0	0.06	0	0	167	0.8	209	0

ACADEMIC BUILDING BASEMENT - SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A ROOM AREA (SQ.FT.)	B PEOPLE DENSITY (#/P1000 SQ.FT.) / # OF FIXTURES	C PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	D AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	F NUMBER OF PEOPLE (A+B)*1000#P	G OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F+C)*(A+D)=CFM	H ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	I MINIMUM ROOM VENTILATION AIR FLOW RATE G+H=CFM	MINIMUM EXHAUST AIR FLOW RATE A+E=CFM
Fire Pump B01	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	280	2	5	0.06	0	1	22	0.8	27	0
Storage B02	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	305	2	5	0.06	0	1	23	0.8	29	0
Copy B03	COMPUTER LAB	295	25	10	0.12	0	8	115	0.8	144	0
Generator B07	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	700	2	5	0.06	0	2	52	0.8	65	0
Electric B08	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	395	2	5	0.06	0	1	29	0.8	36	0
Mechanical Room B09	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	965	2	5	0.06	0	2	68	0.8	85	0
Storage B10	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	400	2	5	0.06	0	1	29	0.8	36	0
Corridor CB01	CORRIDORS	580	0	0	0.06	0	0	35	0.8	44	0
Corridor CB02	CORRIDORS	255	0	0	0.06	0	0	15	0.8	19	0

BEFORE FABRICATION THIS CONTRACTOR SHALL
VERIFY ALL MEASUREMENTS AND CONDITIONS ON
JOB AND COORDINATE HIS WORK WITH THE WORK
OF ALL OTHER CONTRACTORS

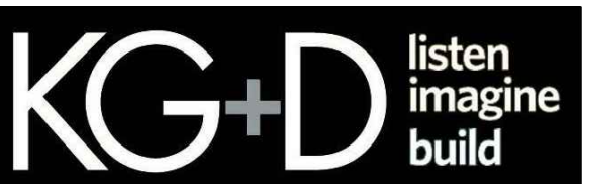
BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

COMMUNITY BUILDING LOWER LEVEL - SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES											
		A	B	C	D	E	F	G	H	I	
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#/1000 SQ.FT.) / # OF FIXTURES	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (AxB)+1000=HP	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (FxC)+(AxD)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G+H=CFM	MINIMUM EXHAUST AIR FLOW RATE A+E=CFM
P.E. Office GB03	OFFICE SPACE	110	5	5	0.06	0	1	12	0.8	15	0
Toilet GB04	CELL W/ TOILET	110	25	5	0.12	1	3	28	0.8	35	110
Coach's Office GB05	OFFICE SPACE	110	5	5	0.06	0	1	12	0.8	15	0
Storage GB06	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	255	2	5	0.06	0	1	20	0.8	25	0
Mechanical Room GB07	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	420	2	5	0.06	0	1	30	0.8	38	0
Storage GB08	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	160	2	5	0.06	0	1	15	0.8	18	0
Girls Locker Room GB09	LOCKER ROOMS FOR ATHLETIC, INDUSTRIAL, AND HEALTHCARE	345	0	0	0	0.5	0	0	0.8	0	173
Girls Toilet GB10	CELL W/ TOILET	225	25	5	0.12	1	6	57	0.8	71	225
Boys Toilet GB11	CELL W/ TOILET	220	25	5	0.12	1	6	56	0.8	71	220
Boys Locker Room GB12	LOCKER ROOMS FOR ATHLETIC, INDUSTRIAL, AND HEALTHCARE FACILITIES	345	0	0	0	0.5	0	0	0.8	0	173
Vestibule GC01	CORRIDORS	290	0	0	0.06	0	0	17	0.8	22	0

COMMUNITY BUILDING GYM FLOOR LEVEL - SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES											
		A	B	C	D	E	F	G	H	I	
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#/1000 SQ.FT.) / # OF FIXTURES	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (AxB)+1000=HP	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (FxC)+(AxD)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G+H=CFM	MINIMUM EXHAUST AIR FLOW RATE A+E=CFM
Corridor GC01	CORRIDORS	927	0	0	0.06	0	0	56	0.8	70	0
Security Office G102	OFFICE SPACE	95	5	5	0.06	0	1	11	0.8	13	0
Toilet G107	CELL W/ TOILET	58	25	5	0.12	1	2	17	0.8	21	58
Toilet 2	OFFICE SPACE	58	5	5	0.06	0	1	8	0.8	11	0
Toilet 3	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	58	2	5	0.06	0	1	8	0.8	11	0
Janitor Closet G107	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	37	2	5	0.06	0	1	7	0.8	9	0
Gym/Auditorium G103	MULTIPURPOSE ASSEMBLY	5990	120	5	0.06	0	707	3888	0.8	4861	0
Stage G104	LOCKER ROOMS FOR ATHLETIC, INDUSTRIAL, AND HEALTHCARE FACILITIES	467	0	0	0	0.5	0	0	0.8	0	234

COMMUNITY BUILDING UPPER LEVEL - SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES											
		A	B	C	D	E	F	G	H	I	
ROOM NAME/NUMBER	OCCUPANCY CATEGORY	ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#/1000 SQ.FT.) / # OF FIXTURES	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER OF PEOPLE (AxB)+1000=HP	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (FxC)+(AxD)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G+H=CFM	MINIMUM EXHAUST AIR FLOW RATE A+E=CFM
Gym/Auditorium G103	MULTIPURPOSE ASSEMBLY	5940	120	5	0.06	0	713	3921	0.8	4902	0
Stage G104	STAGES, STUDIOS	490	70	10	0.06	0	35	379	0.8	474	0

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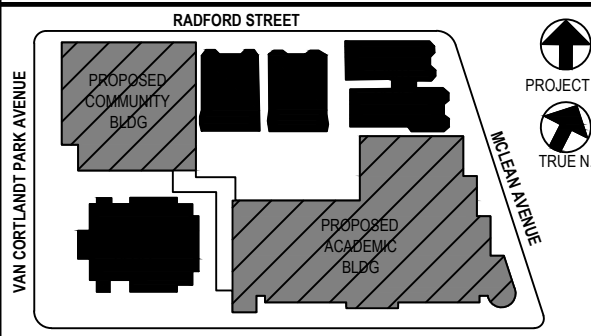
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4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

No. Date Issue

Sheet Title

SCHEDULES

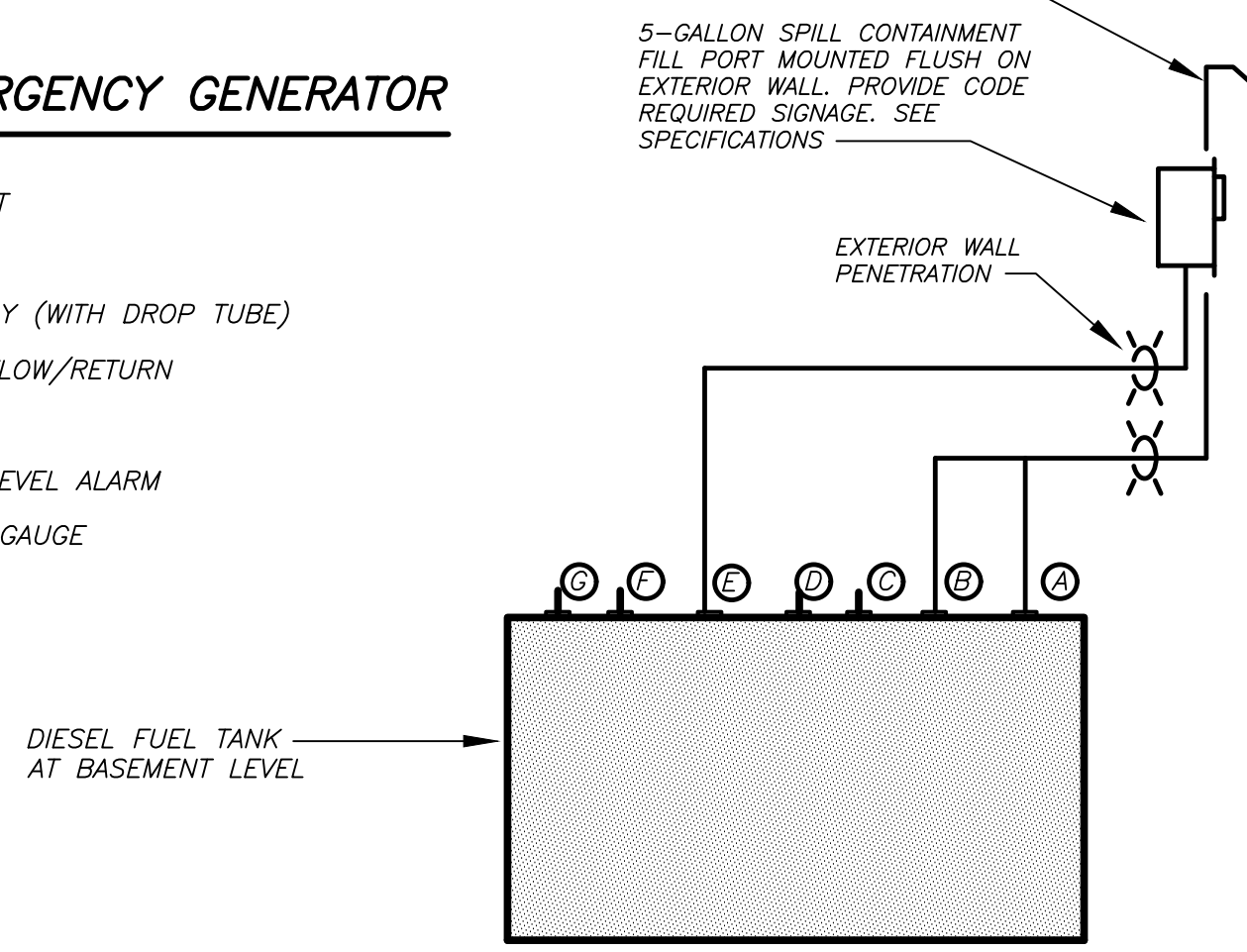
Job No.	2019-1026	Date	11/18/20
Scale	AS NOTED	Drawn / Checked	BGA/BGA

Sheet Number

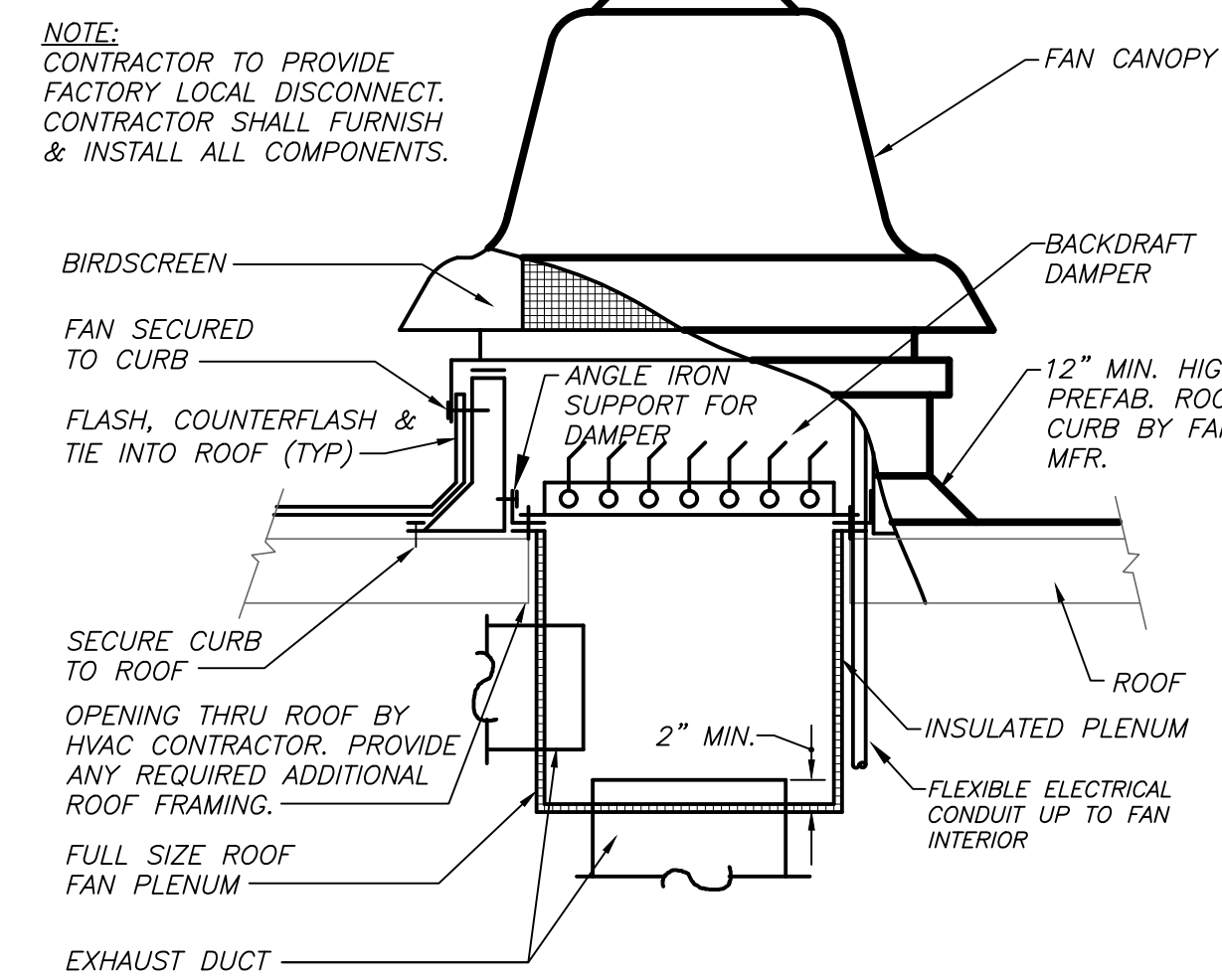
H403

LEGEND - EMERGENCY GENERATOR

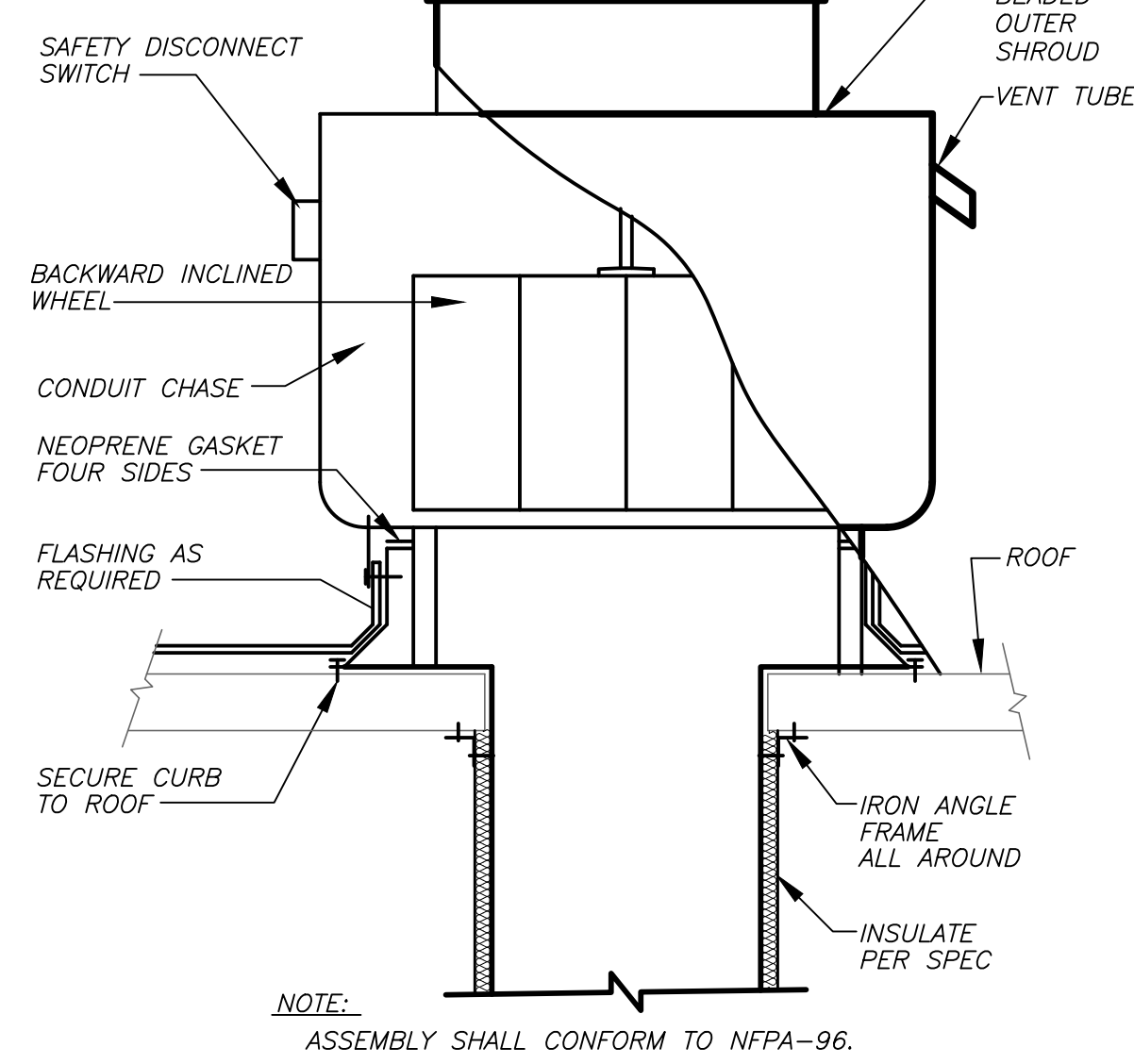
- 3" EMERGENCY VENT
- 2" NORMAL VENT
- DIESEL FUEL SUPPLY (WITH DROP TUBE)
- DIESEL FUEL OVERFLOW/RETURN
- 2" TANK FILL
- GAUGE/HIGH-LOW LEVEL ALARM
- MECHANICAL LEVEL GAUGE



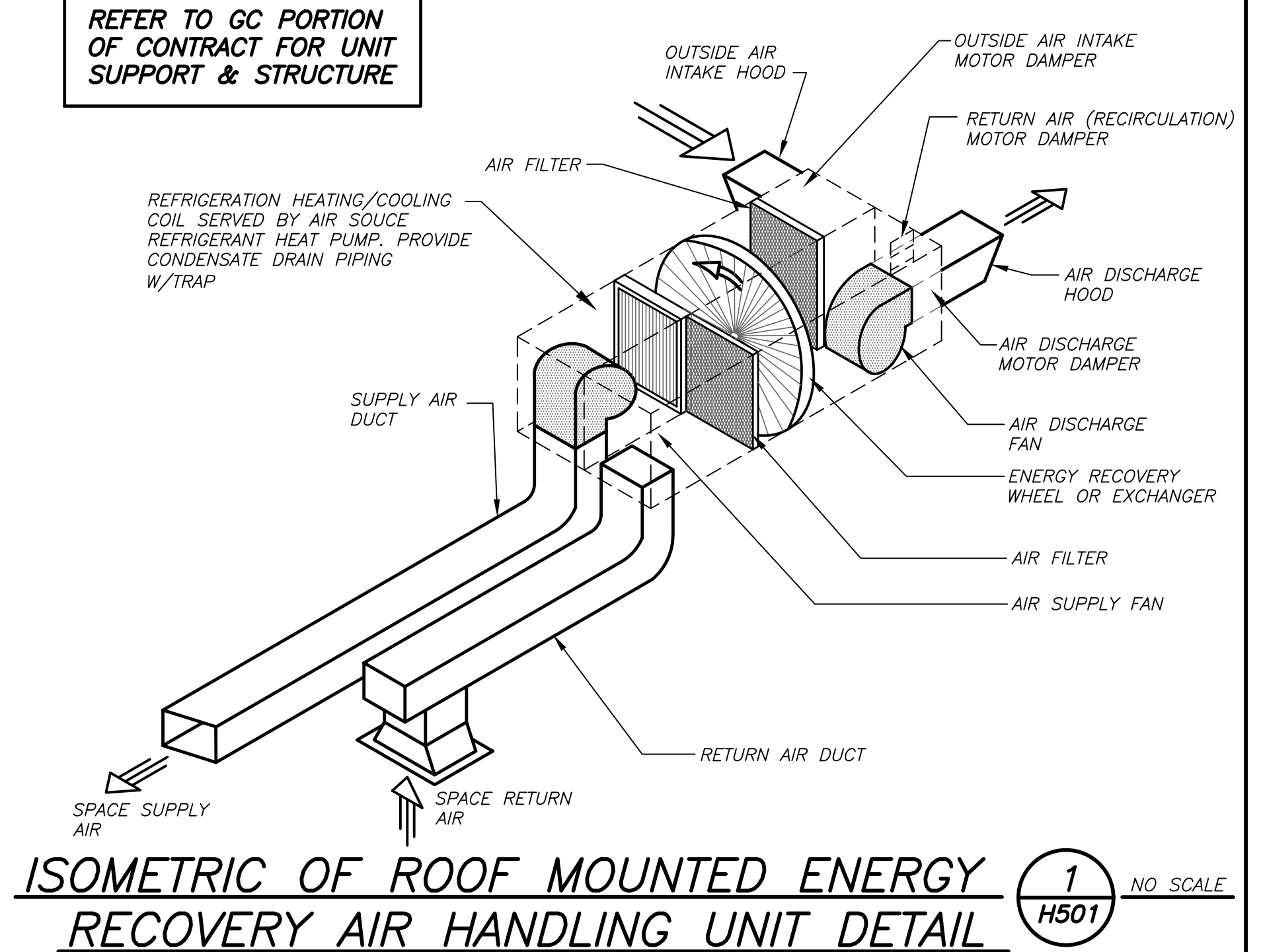
ABOVE GRADE DIESEL FUEL TANK DETAIL 10 H501 NO SCALE



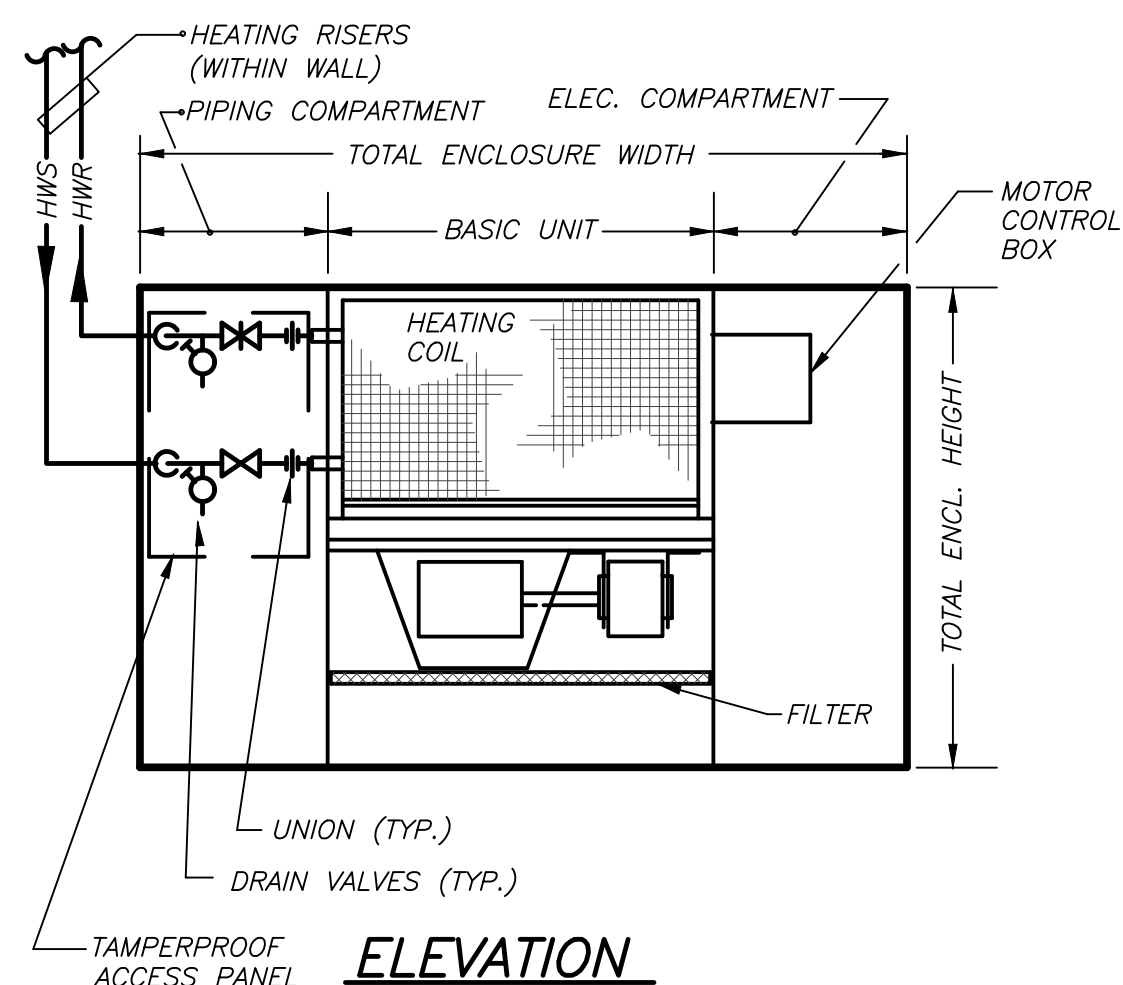
ROOF EXHAUST FAN DETAIL 6 H501 NO SCALE



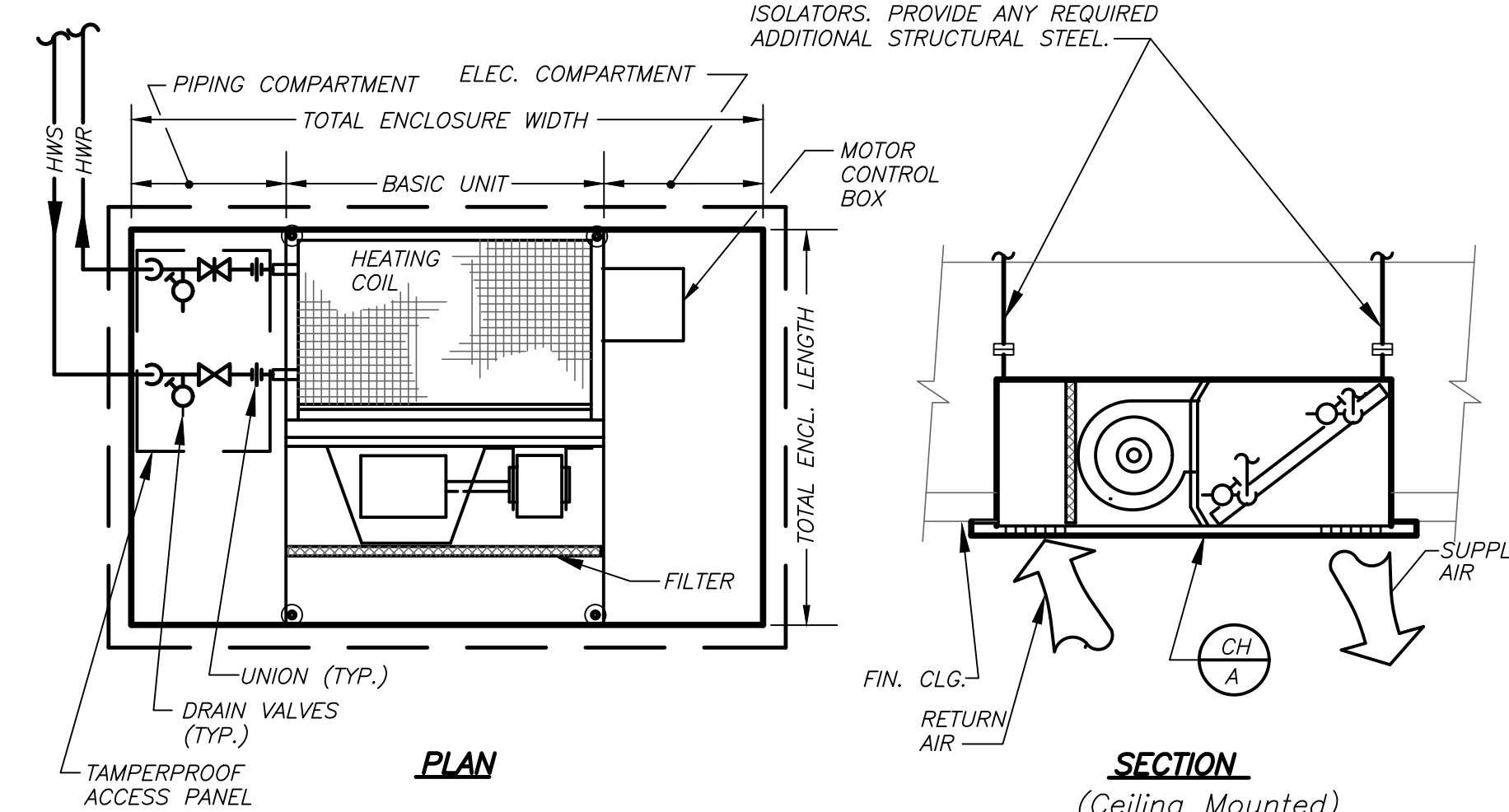
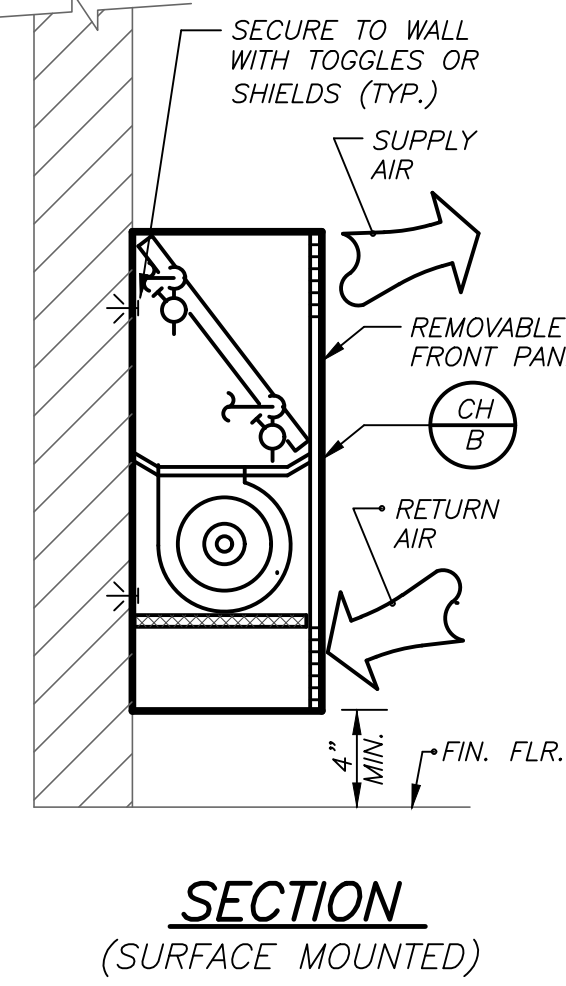
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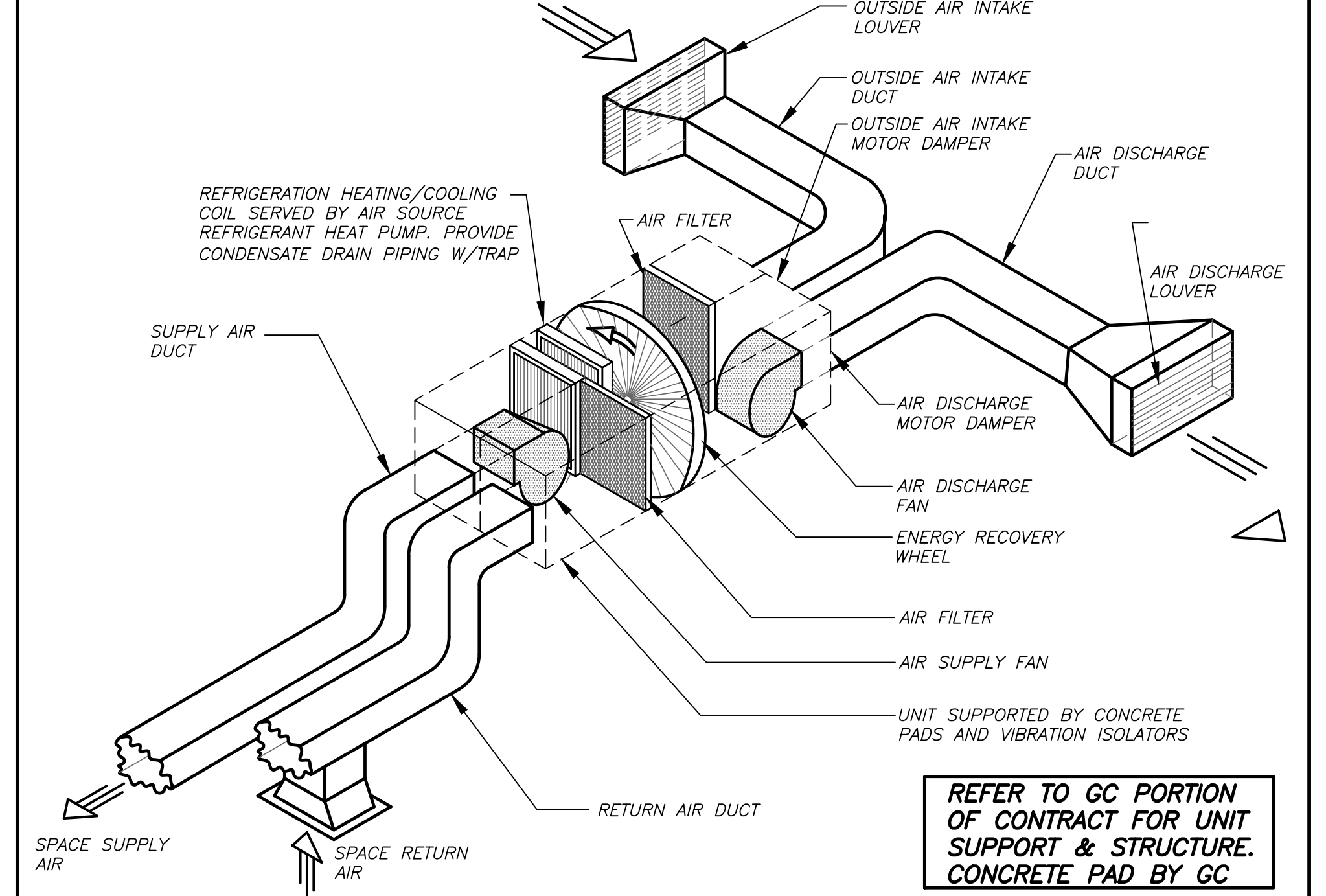
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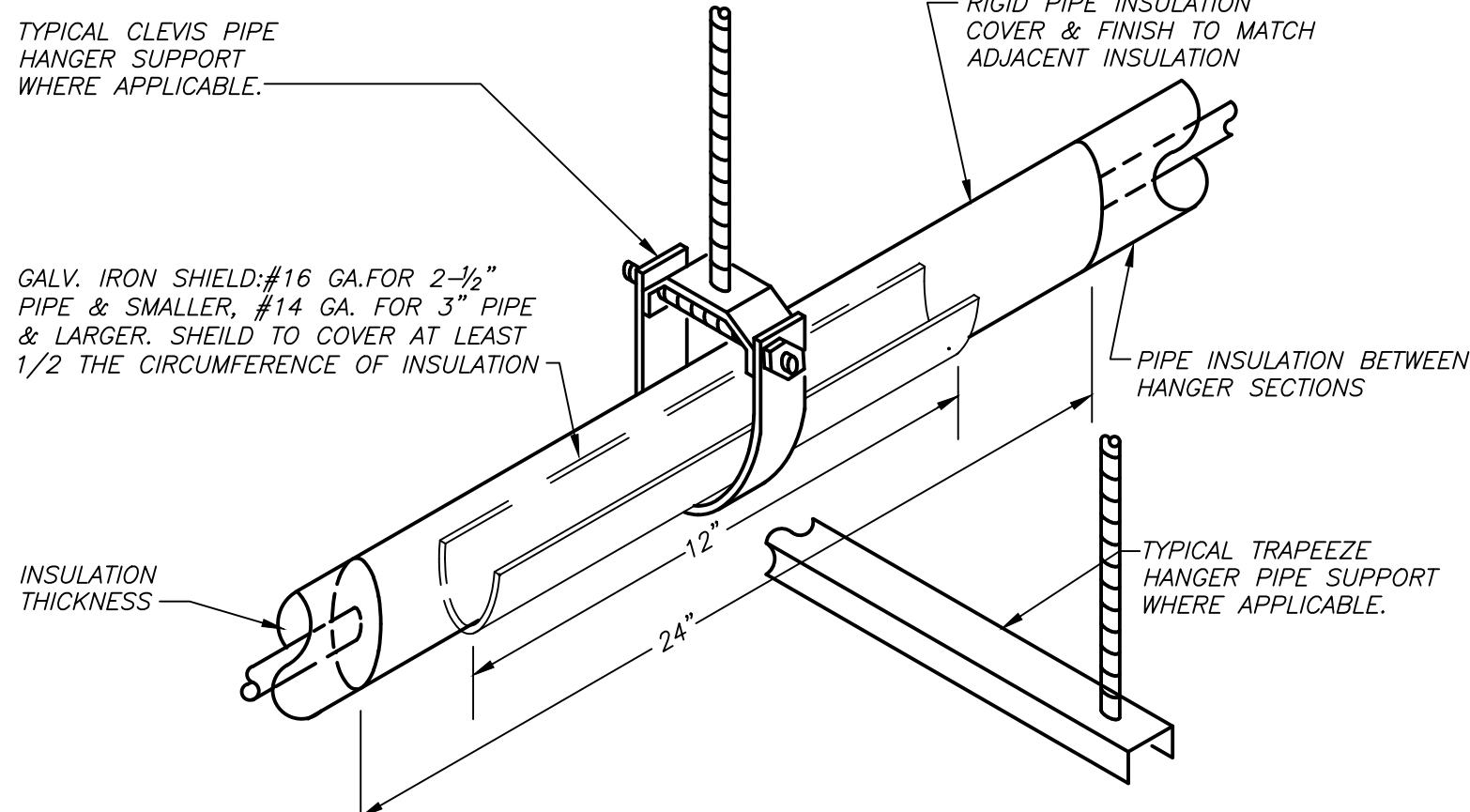
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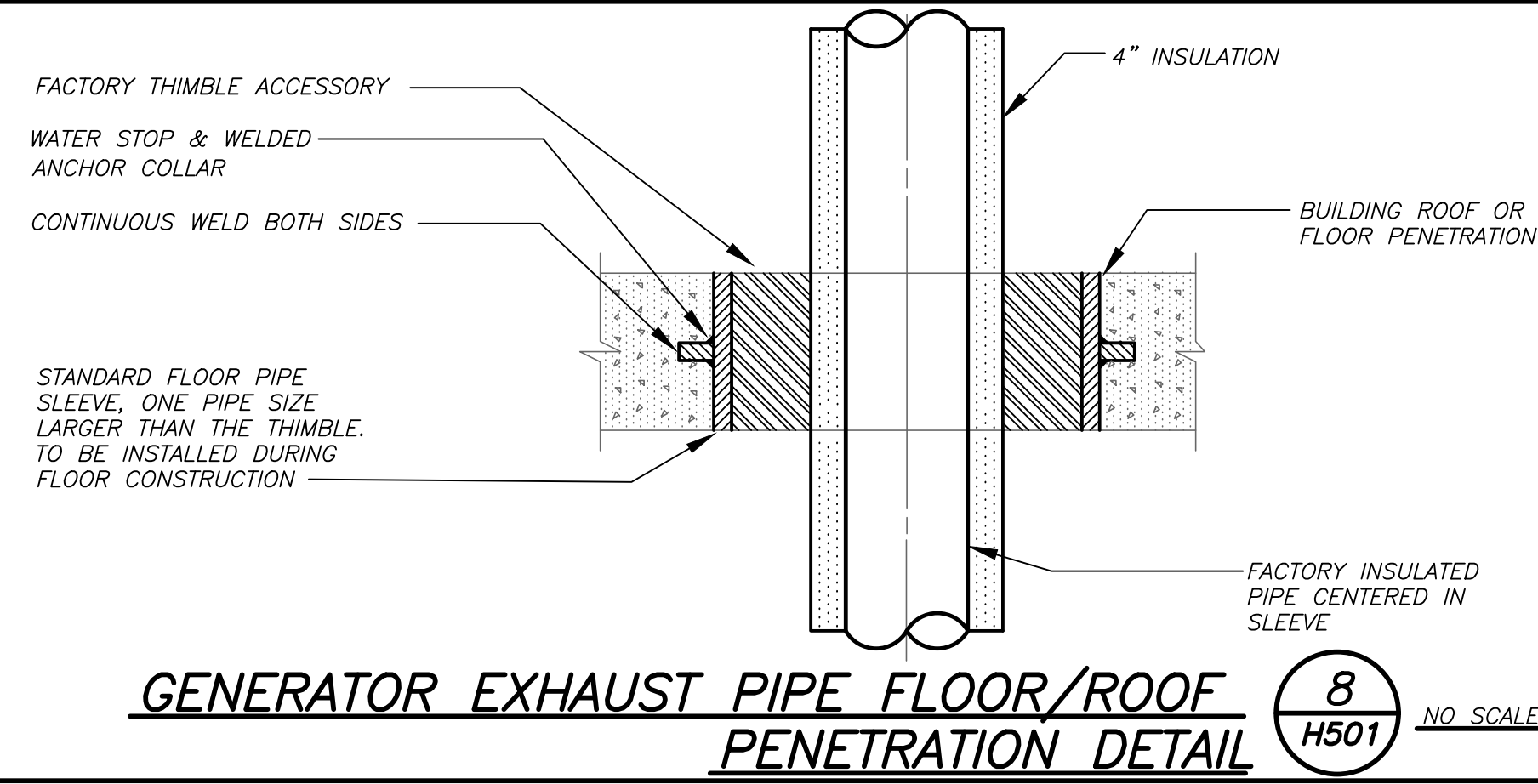
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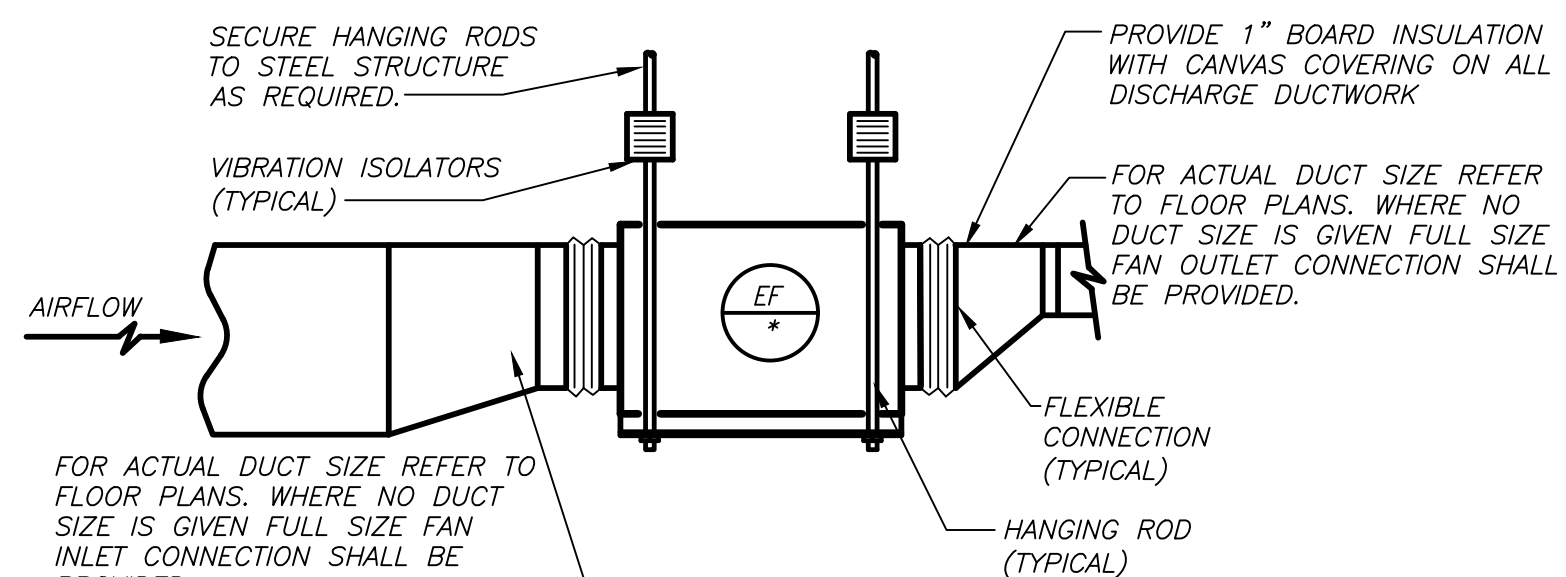
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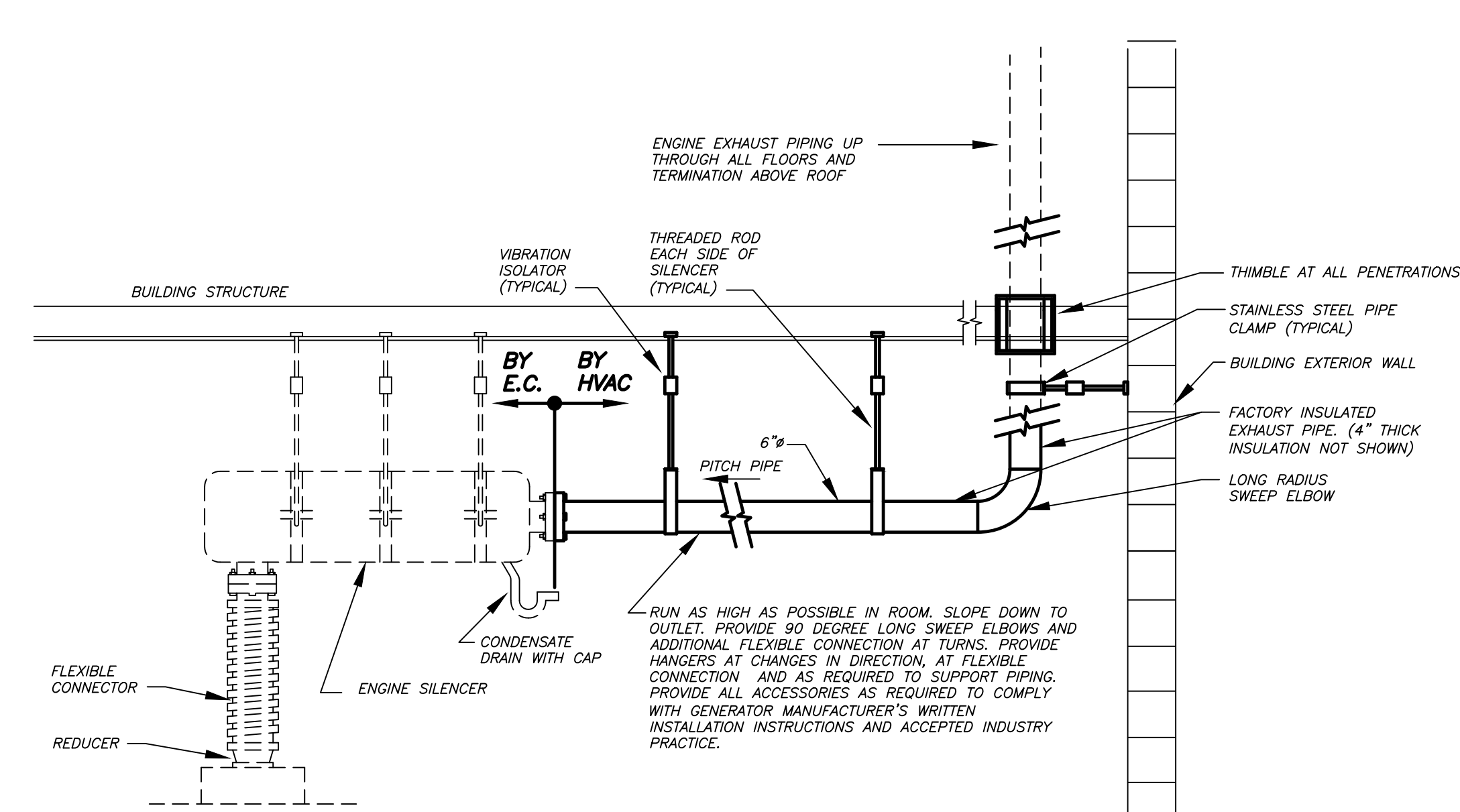
INSULATED PIPE HANGER DETAIL 7 H501 NO SCALE



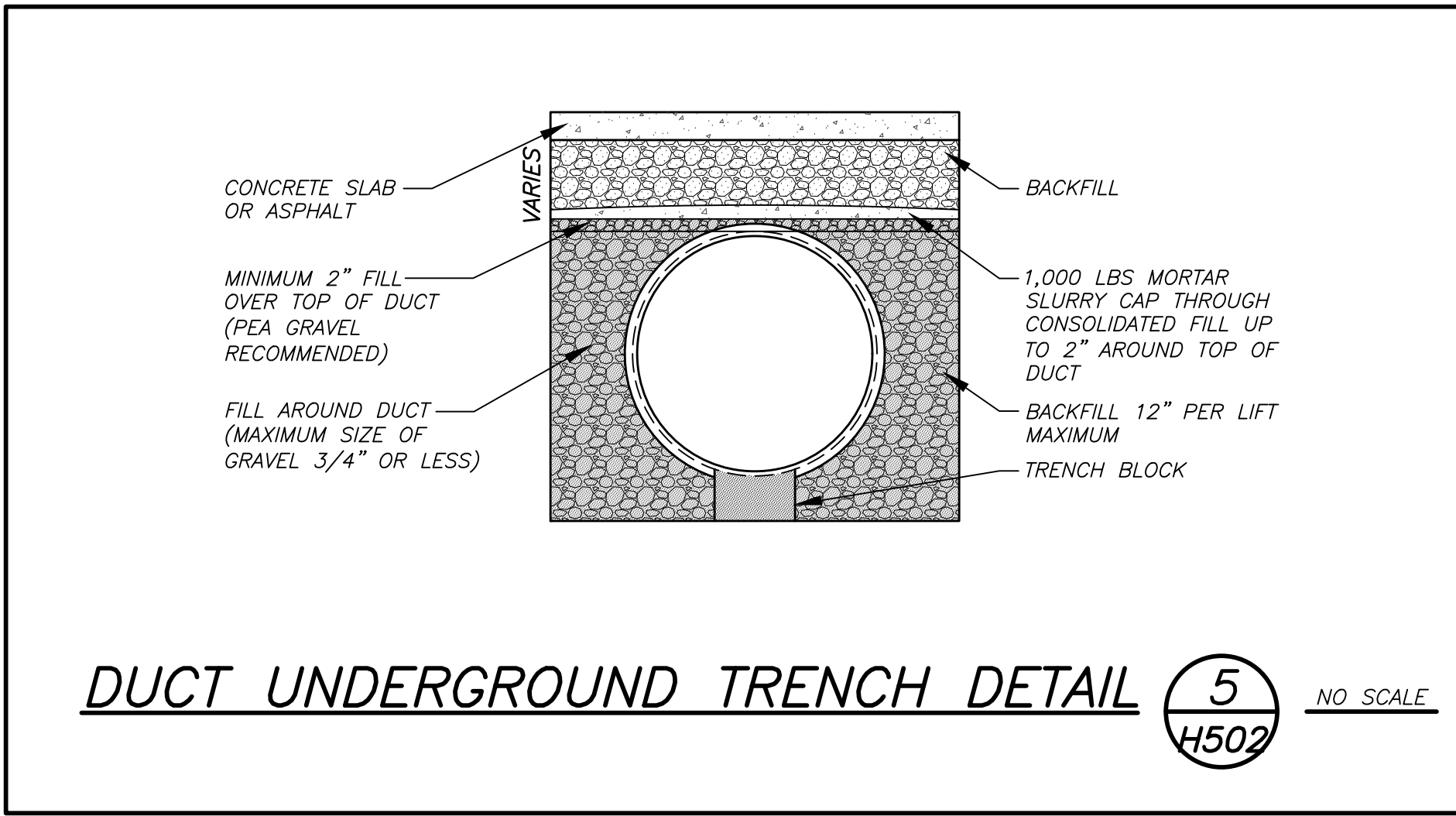
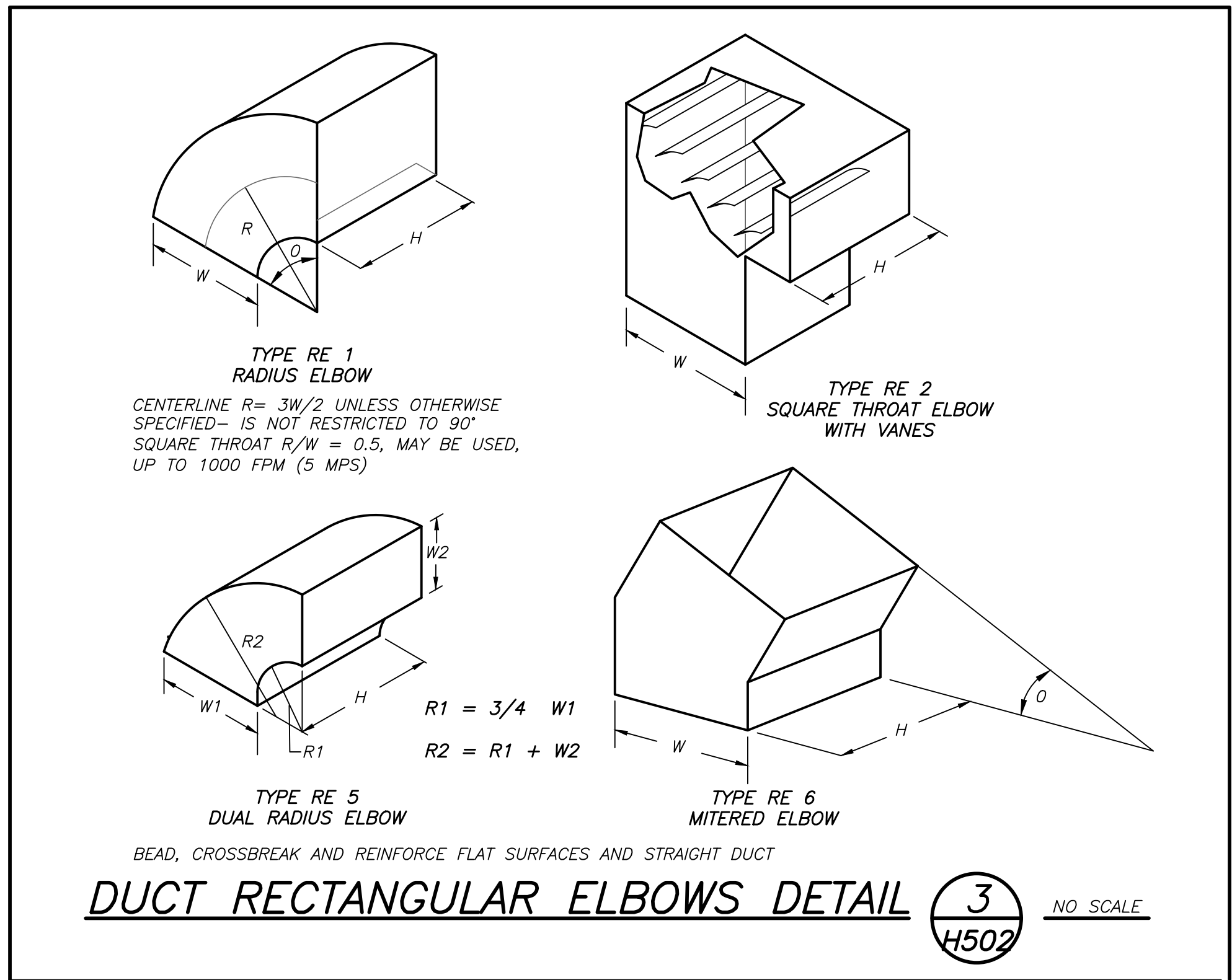
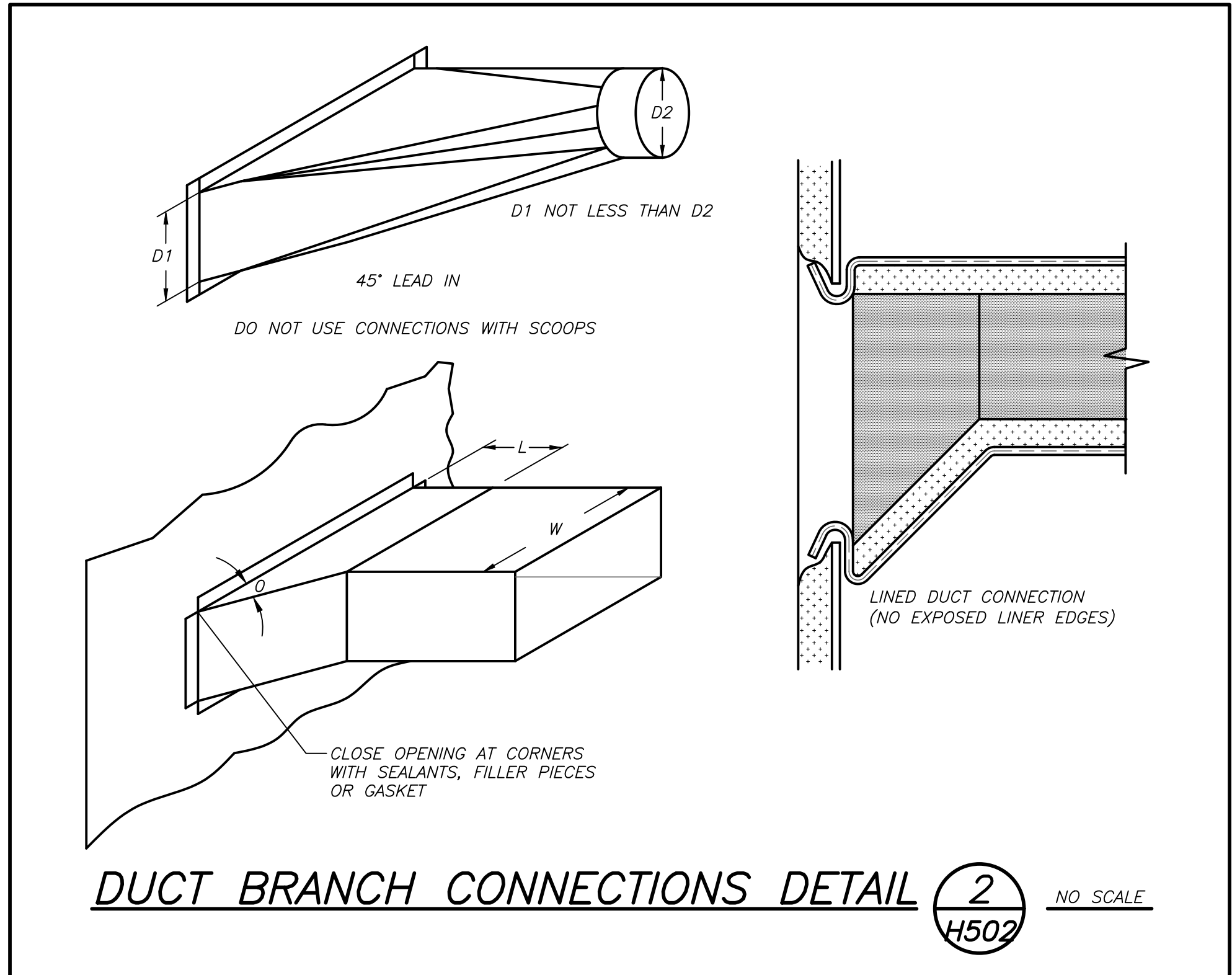
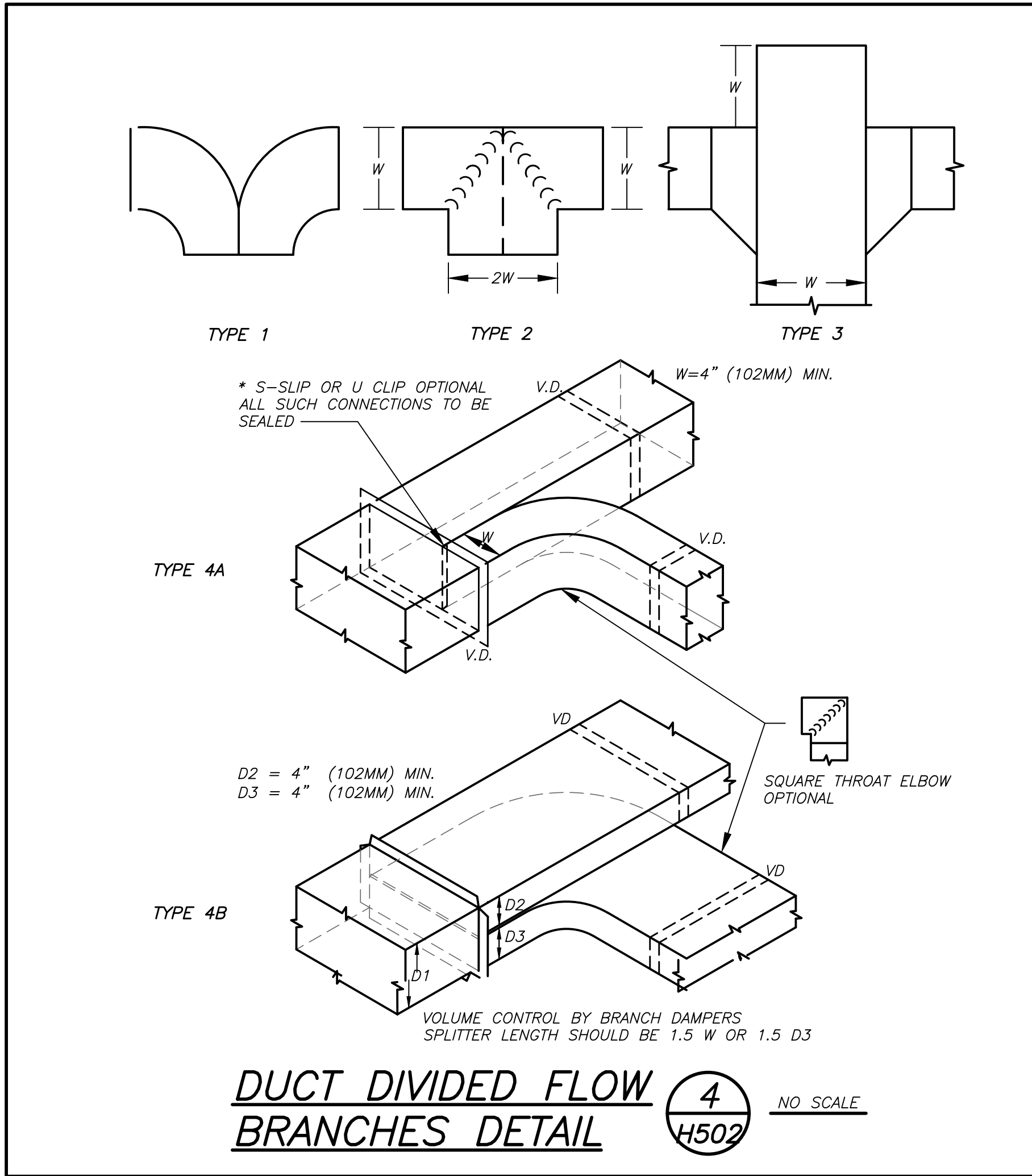
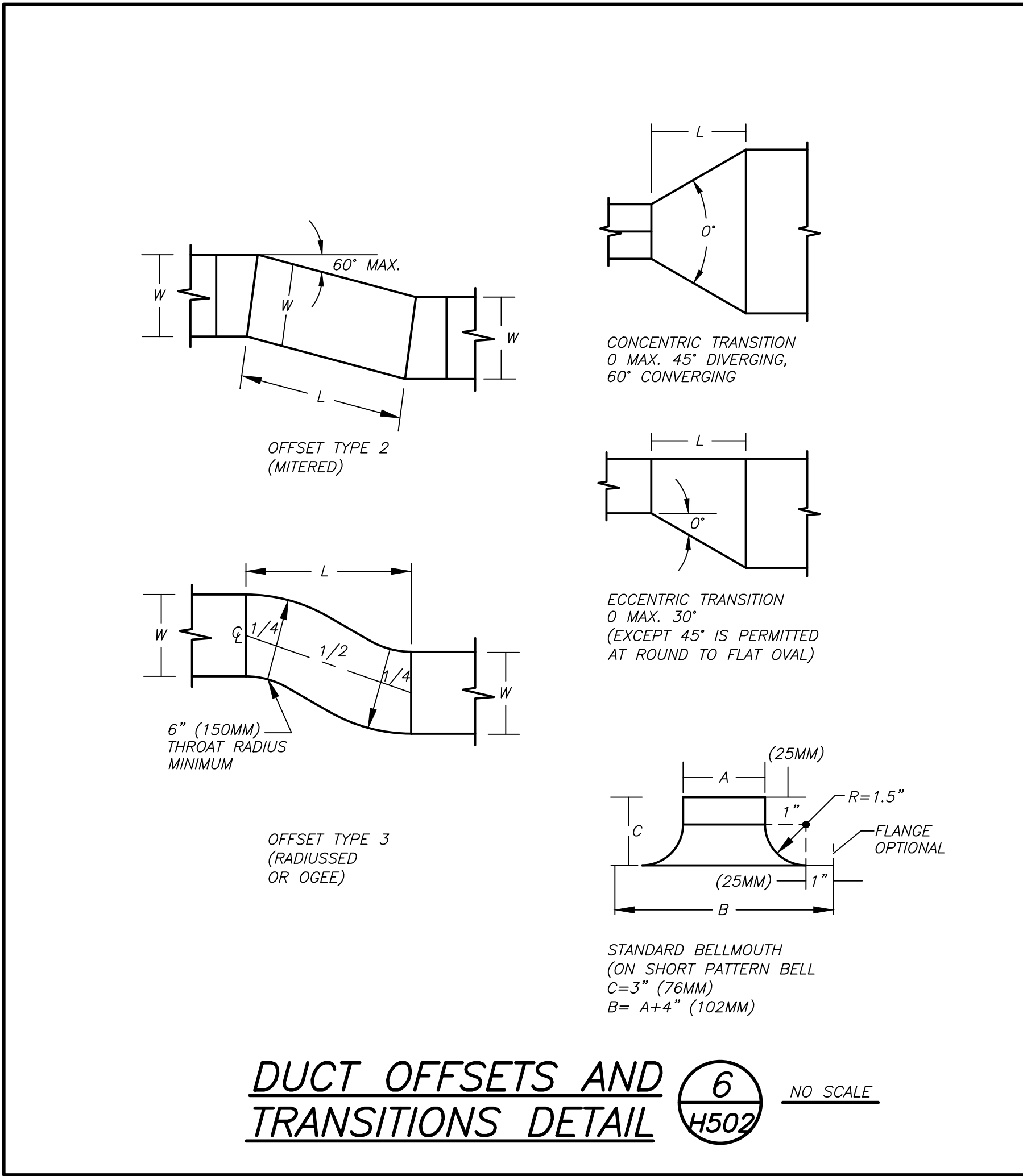
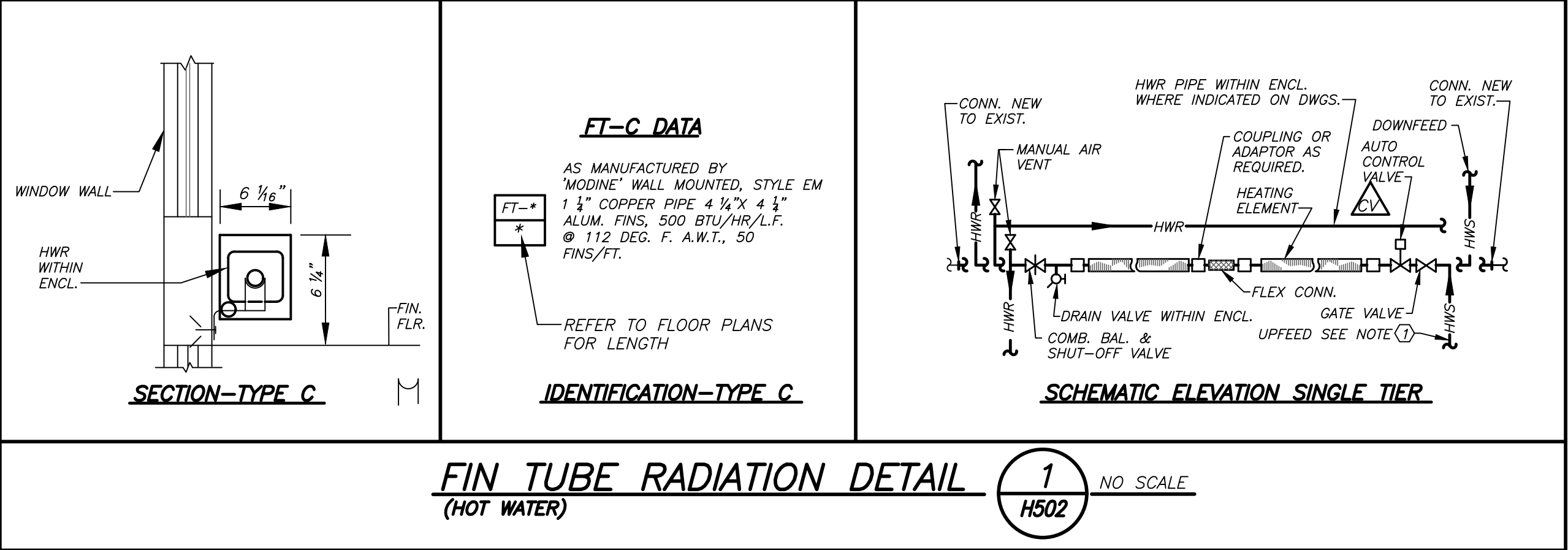
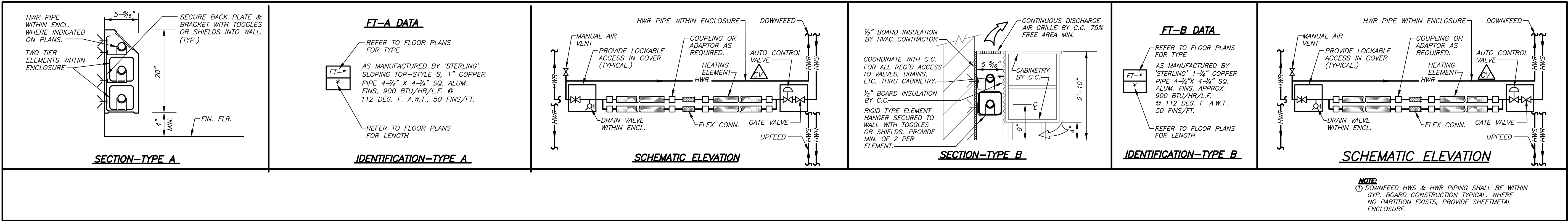
GENERATOR EXHAUST PIPE FLOOR/ROOF PENETRATION DETAIL 8 H501 NO SCALE



INLINE FAN DETAIL 9 H501 NO SCALE



GENERATOR EXHAUST SYSTEM DETAIL 3 H501 NO SCALE



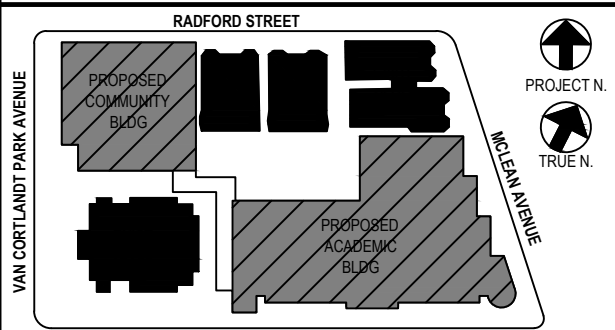
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4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Sheet Title

DETAILS

Job No. 2019-1026 Date 11/18/20

Scale AS NOTED Drawn / Checked BGABGA

Sheet Number

H502

ROOF

4th FLOOR

3rd FLOOR

2nd FLOOR

1st FLOOR

BASEMENT

ROOF

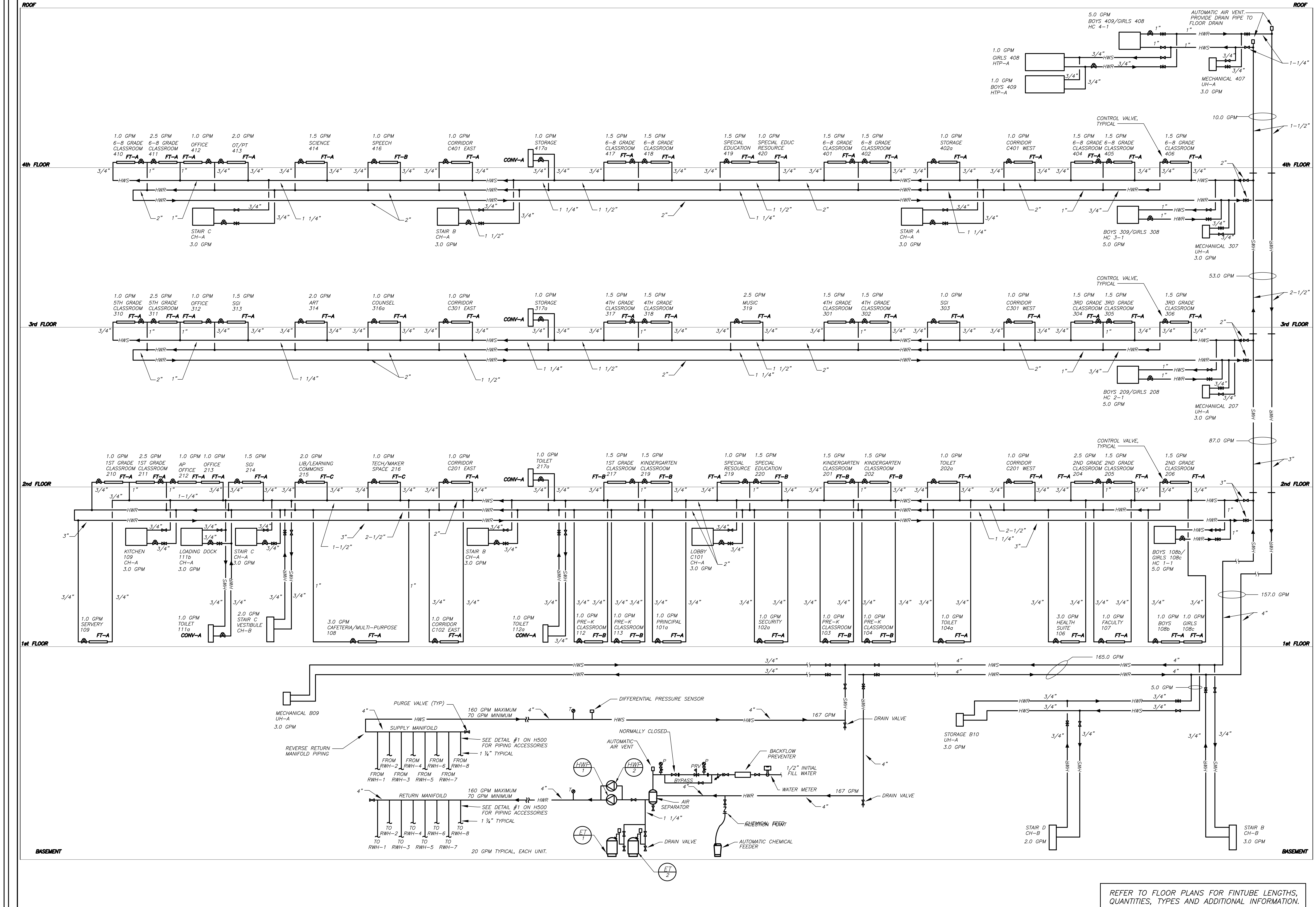
4th FLOOR

3rd FLOOR

2nd FLOOR

1st FLOOR

BASEMENT



ACADEMIC BUILDING SCHEMATIC HYDRONIC HEATING RISER DIAGRAM 1 H503 NO. SCALE

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

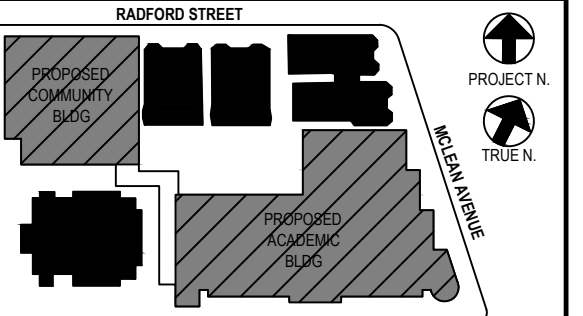
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1	08/31/2020	SCHEMATIC DESIGN
2	12/15/2020	DESIGN DEVELOPMENT
3	07/14/2021	CONSTRUCTION DOCS-NYSED
4	11/01/2021	ISSUED TO BID
Sheet Title		

ACADEMIC BUILDING
SCHEMATIC HYDRONIC
HEATING RISER DIAGRAM

Job No. 2019-1026 Date 11/18/20

Scale AS NOTED Drawn / Checked BGABGA

Sheet Number

H503

GENERAL NOTES	
1.	DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE FOR FIRST CLASS ELECTRICAL INSTALLATION.
2.	THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT SHALL BE COORDINATED IN FIELD WITH RESPECTIVE CONTRACTOR/OWNER.
3.	THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO SUBMISSION OF BID TO DETERMINE WHAT WORK MUST BE PERFORMED AFTER NORMAL BUSINESS HOURS, UNLESS OTHERWISE DIRECTED ANY NOISY WORK (CHOPPING, CORE DRILLING, HAMMERING, ETC.) AND BUILDING POWER INTERRUPTIONS SHALL BE PERFORMED OUTSIDE OF NORMAL BUSINESS HOURS. CONFIRM NORMAL BUSINESS HOURS WITH BUILDING OWNER. NO ADDITIONAL COST WILL BE CHARGED TO OWNER FOR WORK PERFORMED OUTSIDE NORMAL BUSINESS HOURS.
4.	ALL WORK WHERE SHOWN WITH DARK/SOLID LINES ON THE DRAWINGS IS NEW UNLESS OTHERWISE NOTED. FEEDERS AND BRANCH CIRCUITRY SHALL BE RUN IN MINIMUM 3/4" CONDUIT UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO MOTORS MAY BE MADE WITH FLEXIBLE METALLIC CONDUIT (NO LONGER THAN 18"), IN UNFINISHED AREAS CONDUIT SHALL BE RUN EXPOSED AND IN FINISHED AREAS CONDUIT SHALL BE RUN CONCEALED.
5.	PROVIDE PANEL NAME PLATE MADE OF BLACK LAMINATED PLASTIC WITH WHITE ENGRAVED LETTERING AND TYPE WRITTEN DIRECTORY FOR ALL NEW AND EXISTING PANELS BEING USED FOR THIS PROJECT.
6.	ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN INSULATED, ALL CONDUCTORS SHALL HAVE 600 VOLT RATED INSULATION UNLESS OTHERWISE NOTED.
7.	PROVIDE LOCK-ON CIRCUIT BREAKERS FOR CIRCUITS SERVING EXIT SIGN FIXTURES AND EMERGENCY BATTERY PACK FIXTURES.
8.	REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES AND OTHER CEILING INSTALLED ITEMS.
9.	THE USE OF FLEXIBLE CONDUIT FROM LIGHTING FIXTURES TO JUNCTION BOX IS PERMITTED ONLY WHEN A SEPARATE GROUND WIRE IS INSTALLED WITH THE CONDUCTORS INSIDE FLEXIBLE CONDUIT. THE GROUND WIRE MUST BOND THE FIXTURE HOUSING TO THE JUNCTION BOX. MAXIMUM LENGTH 6'-0".
10.	EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO THE INSTALLATION.
11.	WALL MOUNTED EQUIPMENT (SWITCHES, RECEPTACLES, ETC.) SHALL BE SURFACE MOUNTED IN UNFINISHED AREAS AND ON EXISTING CONCRETE BLOCK WALLS AND FLUSH TO THE JUNCTION BOX. MAXIMUM LENGTH 6'-0".
12.	MOUNTED IN NEW WALLS/PARTITIONS.
13.	CONDUIT RUNS SHALL BE PARALLEL WITH OR AT RIGHT ANGLES TO WALLS AND CEILINGS. CONDUIT SHALL BE SUPPORTED BY APPROVED MEANS. SUPPORTS FOR HORIZONTAL RUNS OF CONDUIT SHALL NOT EXCEED SEVEN FEET ON CENTERS.
14.	PROVIDE PULL BOXES, JUNCTION BOXES, CONDUIT ELBOWS AND OFFSETS TO SUIT FIELD CONDITIONS AND THE NATIONAL ELECTRICAL CODE.
15.	ALL EMPTY CONDUIT SHALL BE PROVIDED WITH A DRAGWIRE.
16.	THE MINIMUM WIRE SIZE FOR 120 VOLT BRANCH CIRCUITS SHALL BE NO. 12 AWG, EXCEPT OVER 100' IN LENGTH SHALL BE NO. 10 AWG.
17.	PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES (EX. CONNECTORS, ADAPTERS, BUSHINGS, CLAMPS, ETC.) TO FACILITATE COMPLETE INSTALLATION.
18.	THE ELECTRICAL CONTRACTOR SHALL CONFIRM THE CONFIGURATION TYPE FOR ALL SPECIAL RECEPTACLES FOR COPIERS, DATA PROCESSING EQUIPMENT, ETC. WITH OWNER AND ENGINEER PRIOR TO ORDERING.
19.	COORDINATE LOCATION OF ALL MECHANICAL EQUIPMENT WITH HVAC CONTRACTOR IN FIELD. FUSES FOR ALL MOTOR LOADS SHALL BE DUAL ELEMENT TIME DELAY TYPE.
20.	ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER. PROVIDE ARCHITECT APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE.
21.	PRIOR TO ORDERING LIGHTING FIXTURES, COORDINATE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. IF DISCREPANCIES EXIST BETWEEN ARCHITECTURAL AND ENGINEERING INFORMATION OBTAIN CLARIFICATION PRIOR TO PROCEEDINGS.
22.	MULTIPLE SWITCHES SHOWN IN SAME LOCATION SHALL BE GANGED TOGETHER WITH A COMMON FACEPLATE.
23.	ALL LIGHTING FIXTURES UTILIZING ELECTRONIC BALLASTS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL OR AN OVERSIZED NEUTRAL WHEN SHARED.
24.	ALL LIGHTING FIXTURES CONTROLLED BY DIMMER SWITCHES SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR.
25.	ALL EMERGENCY LIGHT FIXTURES DESIGNATED 'EM' SHALL BE SWITCHED UNLESS OTHERWISE NOTED. PROVIDE UL924 EMERGENCY RELAY TO BYPASS SWITCH UPON INTERRUPTION OF NORMAL POWER AND ILLUMINATE REGARDLESS OF SWITCH POSITION.
26.	WIRING FOR CLOCK AND P.A. SYSTEMS SHALL BE IN ACCORDANCE WITH APPROVED MANUFACTURER'S REQUIREMENTS, WIRING INDICATED ON DRAWINGS IS FOR REFERENCE ONLY. WIRING FOR P.A. SYSTEM AND CLOCKS SHALL BE PLENUM RATED AND RUN EXPOSED ABOVE ACCESSIBLE CEILING. IT SHALL BE RUN IN EXISTING CONDUIT WHERE EXPOSED, EXCEPT FOR CORRIDORS, CLASSROOMS AND OFFICES IT SHALL BE RUN IN STEEL SURFACE RACEWAY (SIMILAR TO WIREMOLD V-500 AND/OR V-700).
27.	OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS. ALL SLEEVES MUST HAVE BUSHINGS. SEALANT SHALL BE 3 HOUR FIRE BARRIER #CPC-25 (NO LESS THAN 3" THICK BACKED UP WITH MINERAL WOOL).
28.	ALL PANELBOARD COVERS SHALL BE INSTALLED IN PLACE AT THE COMPLETION OF EACH
29.	PREPARE 'AS-BUILT' DRAWINGS THAT REFLECT ACTUAL CONSTRUCTION AND SHOW DEVIATIONS FROM DESIGN DRAWINGS.
30.	LIGHT FIXTURES SHALL BE CONSTRUCTED TO SUIT PARTICULAR TYPE OF CEILING AND WALL CONSTRUCTION AND SHALL BE PROVIDED WITH APPROPRIATE TRIMS, MOUNTING FRAMES AND ADAPTERS AS REQUIRED.
31.	ALL NEW CIRCUIT BREAKERS INSTALLED INTO EXISTING PANELBOARDS SHALL BE UL LISTED FOR USE IN THE PANEL.
32.	CONTRACTOR IS OBLIGATED TO INSTALL THE LIGHTING SYSTEM AND CONTROLS IN OBSERVANCE OF ALL APPLICABLE LOCAL AND NATIONAL CODES IN ACCORDANCE WITH APPROVED SUBMITTALS, INCLUDING ALL NOTES AND REVISIONS.
33.	LIGHTING CONTROL SYSTEM MANUFACTURER OR REPRESENTATIVE SHALL PROVIDE OR ORCHESTRATE PROJECT MANAGEMENT AND QUALIFIED STARTUP OR COMMISSIONING SERVICES TO MEET THE SPECIFICATION AND CONTROL INTENT.
34.	CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION, WIRING, PLACEMENT, AND ADJUSTMENT OF ALL SENSORS AS PER MANUFACTURER'S SPECIFICATIONS, ENGINEER'S DESIGN INTENT, AND APPROVED SUBMITTALS.

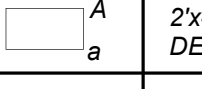
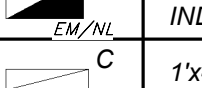

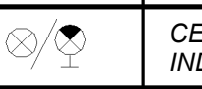
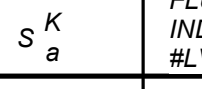

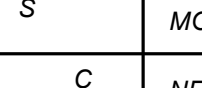

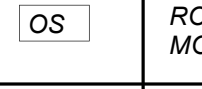
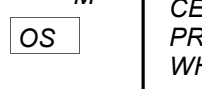
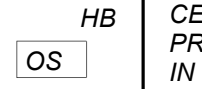
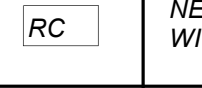
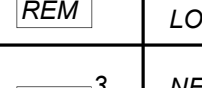

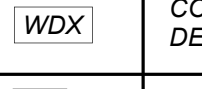
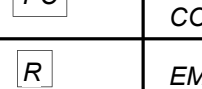
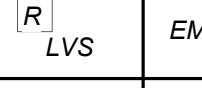
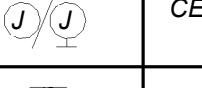

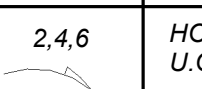

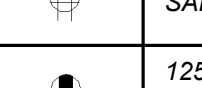

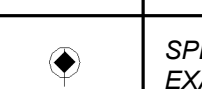
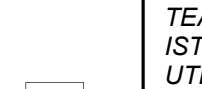
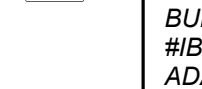
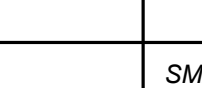
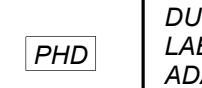
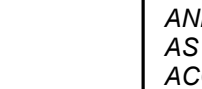


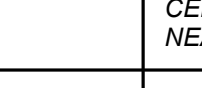

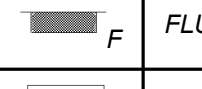

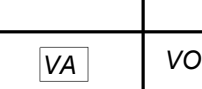
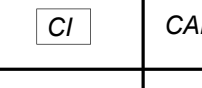

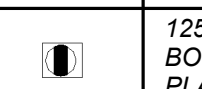
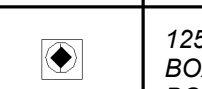


BUILDING STRUCTURE FIREPROOFING:

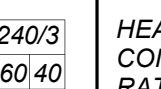
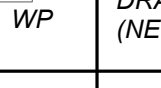
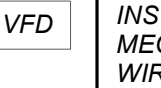
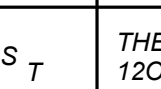
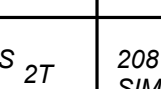
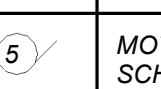
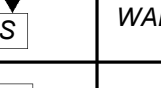
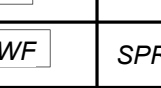
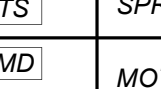
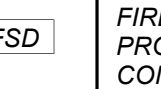
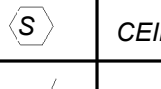
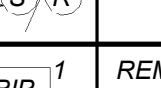
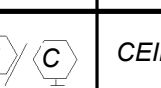
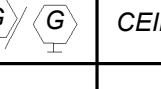
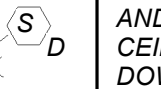
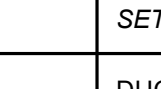
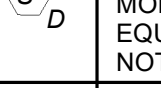
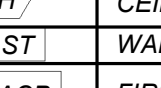
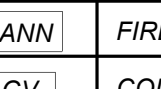
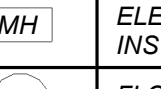
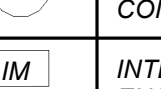
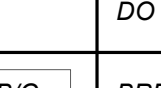
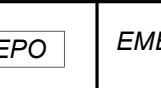
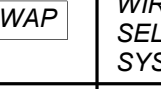
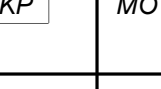
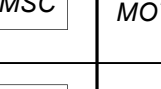


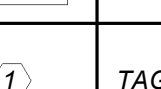

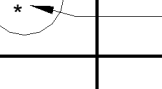
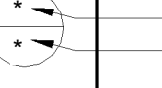



THE BUILDING STRUCTURE WILL BE PROTECTED BY 2" FIREPROOFING THROUGHOUT. THIS CONTRACTOR SHALL ISSUE COORDINATION DRAWINGS ACCORDING TO THE STRICT SCHEDULE OUTLINED IN THE "FRONT END" DOCUMENTS. ALL HANGERS FOR PIPING, CONDUIT, DUCTWORK, EQUIPMENT, ETC. MUST BE IN PLACE BEFORE FIREPROOFING TAKES PLACE. THE INSTALLATION OF HANGERS AFTER THE FACT THAT REQUIRES THE RE-APPLICATION OF FIREPROOFING WILL BE AT THE EXPENSE OF THIS CONTRACTOR.

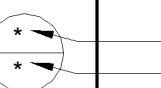

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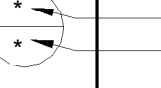

REFER TO STRUCTURAL DRAWINGS AND ARCHITECTUAL DRAWINGS FOR SLAB/ WALL THICKNESS AND PENETRATION DETAILS. COORDINATE WITH G.C.

ABBREVIATIONS	
ABBV.	DESCRIPTION
A	AMP/AMPERE
AC	AIR CONDITIONING UNIT
A.F.F.	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AIC	AMP INTERRUPTING CURRENT
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
C.B.	CIRCUIT BREAKER
CH	CABINET HEATER
CKT	CIRCUIT
CU	CONDENSING UNIT
EM	EMERGENCY
E.C	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
F.A.C.P.	FIRE ALARM CONTROL PANEL
F.B.O	FURNISHED BY OTHERS
G.GRD	GROUND
GFI	GROUND FAULT INTERRUPTER
HVAC	HEATING, VENTILATING AND AIR-CONDITIONING UNIT
HW	HOT WATER HEATER
hmi	THOUSAND CIRCULAR MILLS
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NTS	NOT TO SCALE
P.A	PUBLIC ADDRESS
PNL	PANEL
RECPT	RECEPTACLE
TVSS	TRANSFER VOLTAGE SURGE SUPPRESSION SYSTEM
Typ.	TYPICAL
UH	UNIT HEATER
U.O.N.	UNLESS OTHERWISE NOTED
UV	UNIT VENTILATOR
W	WATT
WP	WEATHERPROOF

LEGEND	
	2x4 LED CEILING MOUNTED LIGHT FIXTURE. UPPER CASE LETTER DENOTES TYPE. LOWER CASE LETTER DENOTES SWITCH CONTROL. FIXTURE SCHEDULE DENOTES TYPE.
	2x4 CEILING MOUNTED LED LIGHT FIXTURE FOR EMERGENCY OPERATION. 'EM' INDICATES SWITCHED EMERGENCY FIXTURE. 'EMNL' UN-SWITCHED EMERGENCY/NIGHT FIXTURE.
	1x4 LED CEILING MOUNTED FIXTURE. CAPITAL LETTER INDICATES TYPE. LOWER CASE LETTER INDICATES SWITCH CONTROL. FIXTURE SCHEDULE DENOTES TYPE.
	1x4 LED CEILING MOUNTED FIXTURE FOR EMERGENCY OPERATION WITH INTEGRAL BATTERY BACK-UP. TEST BUTTON AND L.E.D.
	CEILING/WALL MOUNTED EXIT LIGHT WITH OUTLET BOX. DIRECTIONAL ARROWS SHADED PORTION INDICATES ILLUMINATED FACE. SCHEDULE DENOTES TYPE.
	FLUSH WALL MOUNTED LIGHTING CONTROL SWITCH CONTROLLING OUTLET "9". "K" WHERE USED INDICATES KEY SWITCH. "3" INDICATES 3-WAY SWITCH. "4" INDICATES 4-WAY SWITCH. HUBBELL MODEL #LVSKEY-3M-SS
	FLUSH WALL MOUNTED LIGHTING CONTROL SWITCH SIMILAR TO HUBBELL MODEL #LVSIM1NP
	FLUSH WALL MOUNTED LIGHTING CONTROL SWITCH AND SENSOR SIMILAR TO HUBBELL LIGHTHAWK MODEL #LHMTST-G
	NETWORK DIGITAL CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR. SIMILAR TO HUBBELL MODEL PIR SENSORS FOR HALLWAYS. WORKS WITH DIGITAL ROOM CONTROLLER. PROGRAM TO MAXIMUM SENSITIVITY AND TIME DELAY TO 20 MIN. HUBBELL MODEL #CMDT2
	NETWORK DIGITAL CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR. WORKS WITH DIGITAL ROOM CONTROLLER. PROGRAM TO MAXIMUM SENSITIVITY AND TIME DELAY TO 20 MIN. HUBBELL MODEL #CMDT2
	CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR, SIMILAR TO HUBBELL OMNI US-1000-RP. PROGRAM TO MAXIMUM SENSITIVITY AND TIME DELAY TO 20 MIN. WORKS WITH MOMENTARY SWITCH. WHERE SHOWN ON FLOOR PLAN, EC SHALL ALSO PROVIDE HUBBELL MODEL #OMINDT2
	CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR USED IN GYM, SIMILAR TO HUBBELL WASP2. PROGRAM TO MAXIMUM SENSITIVITY AND TIME DELAY TO 20 MIN. WORKS WITH WALL STATION. USED IN GYM.
	NETWORK DIGITAL DIMMABLE ROOM CONTROLLER FOR LIGHTING CONTROL. SHOT WIRE TO LOAD, CAT 5 WITH CONNECTION TO CONTROL DEVICES. HUBBELL MODEL #NRCRFX-SPD
	NETWORK DIGITAL DIMMABLE ROOM EMERGENCY CONTROLLER FOR LIGHTING CONTROL. SHOT WIRE TO LOAD, CAT 5 WITH CONNECTION TO CONTROL DEVICES. HUBBELL MODEL #NRCR-UL924-UNV
	NETWORK DIGITAL FLUSH MOUNTED PRESET NON DIMMABLE WALL STATION. WORKS WITH DIGITAL ROOM CONTROLLER. INCLUDES BUTTON ENGRAVING. DENOTES 3-WAY SWITCH. HUBBELL MODEL #NWSW-99
	NETWORK DIGITAL FLUSH MOUNTED PRESET DIMMABLE WALL STATION. WORKS WITH DIGITAL ROOM CONTROLLER. INCLUDES BUTTON ENGRAVING AND PROGRAMMING PER ZONE. "X" DENOTES ZONES. "3" DENOTES 3-WAY SWITCH. HUBBELL MODEL #NWSW-SS
	NETWORK DIGITAL CEILING MOUNTED CLOSED LOOP. PHOTO SENSOR. WORKS WITH ROOM CONTROLLER. HUBBELL MODEL #NROS
	EMERGENCY LIGHTING UL924 RELAY.
	EMERGENCY LIGHTING LVS MODEL. PART #EPC-D
	CEILING/WALL MOUNTED JUNCTION BOX.
	FLUSH FLOOR MOUNTED JUNCTION BOX
	HOMERUN TO DESIGNATED PANEL. ARROWHEAD INDICATES SINGLE POLE CIRCUIT. HOMERUN SHALL CONSIST OF 2#12-3/4" C U.O.N.
	HOMERUN TO DESIGNATED PANEL. NUMBERS INDICATE MULTIPLE CIRCUIT, I.E. 3-SHOTS AND 1-GROUND U.O.N.
	125V-3P-3W-20A GROUNDED TYPE. SPECIFICATION GRADE TAMPER RESISTANCE WALL MOUNTED DUPLEX RECEPTACLE. SIMILAR TO HUBBELL #K32WTR
	SAME AS ABOVE EXCEPT DOUBLE DUPLEX RECEPTACLE
	125V-3P-3W-20A GROUNDED TYPE. SPECIFICATION GRADE TAMPER RESISTANCE. USB PORT WALL MOUNTED DUPLEX RECEPTACLE SIMILAR TO HUBBELL #USB 20A5W
	20A FLUSH WALL MOUNTED GROUND FAULT INTERRUPTING TYPE DUPLEX RECEPTACLE HUBBELL #GFI362.
	SPECIAL PURPOSE 208V-3-2-4P WALL MOUNTED RECEPTACLE FOR KITCHEN EQUIPMENT. COORDINATE EXACT CONFIGURATION WITH EQUIPMENT.
	TEACHER'S WALL STATION. CONSISTS OF TWO GANG AV WALL BOX (HUBBELL #HBL985), HUBBELL ISTATION MODULAR DOUBLE FACEPLATE WITH LABELS (HUBBELL #IMF2XX), CONTAINING (1) HDMI 110 UTP VIDEO EXTENDER (SOURCE) DECORATOR TYPE FEMALE ADAPTER (HUBBELL #ISFHT10XX), (3) ISTATION SINGLE PORT WITH KEYSTONE OPENING (HUBBELL #M1K1XX) WITH RJ45 FEMALE BULKHEADS (HUBBELL #HXJ6XX) - (1) RJ45 DATA CAT. 6 CABLE (BLUE) AND (2) BLANKS (HUBBELL #B1XX). ALSO PROVIDE (1) CAT 6 CABLE (BLUE) FROM HDMI FEMALE ADAPTER TO SMART BOARD HDMI ADAPTER. (PROVIDE STAINLESS STEEL COVER PLATE. DEVICE COLOR TO BE SELECTED BY OWNER/ARCH. INCLUDE ALL ASSOCIATED ACCESSORIES FOR A COMPLETE SYSTEM.
	SMART BOARD WALL STATION. CONSISTS OF 4-GANG IN-WALL ENCLOSURE WITH NEW WORK STUD BRACKETS AND COVER CONTAINING CABLE EXIT (HUBBELL #NSAV124M, NSAV12C, NSAV6W), (2) DUPLEX RECEPTACLES (HUBBELL #NSOKPTR), (2) HUBBELL ISTATION MODULAR FACEPLATE WITH LABELS (HUBBELL #IMF1XX)HDMI 110 UTP VIDEO EXTENDER (DISPLAY) DECORATOR TYPE FEMALE ADAPTER (HUBBELL #ISFHT10XX), (1) ISTATION SINGLE PORT WITH KEYSTONE OPENING (HUBBELL #M1K1XX) WITH RJ45 FEMALE BULKHEAD (HUBBELL #HXJ6XX) FOR (1) RJ45 DATA CAT.6 CABLE (BLUE) AND (2) BLANKS (HUBBELL #B1XX). ALSO HDMI ADAPTER WILL BE WIRED TO "HD" AT TEACHERS DESK AS INDICATED ABOVE. DEVICE COLOR TO BE SELECTED BY OWNER/ARCH. INCLUDE ALL ASSOCIATED ACCESSORIES FOR A COMPLETE SYSTEM.
	FLUSH WALL MOUNTED COMBINATION DATA OUTLET CONSISTING OF A (2) PORT COVER PLATE WITH LABEL WINDOW AND 1 1/4" CONDUIT WITH (1) CAT 6 CABLE (BLUE) STUBBED ABOVE CEILING WITH BUSHINGS. CAT 6 CABLE FROM THIS OUTLET TO TERMINATE IN TP PATCH PANEL OF NEAREST IDF/MDF CLOSET.
	FLUSH WALL MOUNTED COMBINATION TELEPHONE/DATA OUTLET CONSISTING OF A (2) PORT COVER PLATE WITH LABEL WINDOW AND 1 1/4" CONDUIT WITH (1) CAT 6 CABLE (BLUE) STUBBED ABOVE CEILING WITH BUSHINGS. CAT 6 CABLE FROM THIS OUTLET TO TERMINATE IN TP PATCH PANEL OF NEAREST IDF/MDF CLOSET.
	FLUSH MOUNTED ELECTRICAL PANELBOARD.
	SURFACE MOUNTED NEW ELECTRICAL PANELBOARD.
	12" WALL MOUNTED PRIMEX WIRELESS CLOCK
	VOICE ACTIVATOR
	CALL-IN BUTTON
	CEILING MOUNTED P.A. SPEAKER.
	GYMNASIUM SOUND SPHERE AMPLIFIERS.
	125V 2P-3W-20A FLOOR MOUNTED RECEPTACLES IN A 1 GANG SINGLE SERVICE PEDESTAL FLOOR BOX. RECEPTACLE: HBL 536L. FLOOR BOX: HUBBELL SA-6695G. BLANK PLATE FOR BACK SS13 COVER PLATE SS8.
	125/250V 3P-4W-50 FLOOR MOUNTED RECEPTACLE IN A 2 GANG SINGLE SERVICE PEDESTAL FLOOR BOX. RECEPTACLE: HBL-9450A. FLOOR BOX: HUBBELL SA-6688G. BLANK COVER PLATE FOR BACK OF BOX: SS22. COVER PLATE: SS23
	FLOOR MOUNTED COMBINATION TELEPHONE/DATA OUTLET CONSISTING OF (2) PORT COVER PLAT, FLOOR BOX: HUBBELL-SA-6655G. BLANK PLATE FOR BACK:SS513 COVER PLATE: STAINLESS STEEL COVERPLATE. SIMILAR TO DECORA SS26.

LEGEND	
	HEAVY DUTY TYPE DISCONNECT SWITCH WITH FINAL FLEXIBLE EQUIPMENT CONNECTION. 240 INDICATES VOLTAGE. 3 INDICATES NO. OF POLES. 60 INDICATES AMPERE RATING. NF INDICATES NON-FUSED/QR FUSE SIZE U.O.N. REFER TO SPECIFICATION AND DRAWINGS FOR ENCLOSURE. 'WP' WHERE USED INDICATES WEATHERPROOF ENCLOSURE (NEMA 3P).
	VARIABLE FREQUENCY DRIVE. FURNISHED BY MECHANICAL CONTRACTOR. WIRED AND INSTALLED BY ELECTRICAL CONTRACTOR. THE CONDUIT AND WIRING FROM VFD TO MECHANICAL UNIT INTER CONNECTION SHALL MATCH THE SAME SIZE AND CONDUIT AND WIRE FROM VFD TO DESIGNATED PANELBOARD. REFER TO PANEL SCHEDULE OR NOTES FOR CONDUIT WIRE AND SIZE.
	THERMAL SWITCH. CUTLER-HAMMER MS SERIES MANUAL STARTERS SINGLE-PHASE 20AMP, 120V U.O.N. WHERE INDICATED WITH 'WP' PROVIDE WATER/TIGHT ENCLOSURE TYPE 3.
	208 VOLT, SINGLE PHASE 2 POLE. THERMAL OVERLOAD PROTECTED TOGGLE TYPE SWITCH. SIMILAR TO EATON #AH4381 + #AH27940G NEMA 1 ENCLOSURE.
	MOTOR (F.B.O. WIRED BY ELEC.). NUMBER INDICATES HORSEPOWER. REFER TO PANEL SCHEDULES FOR WIRING AND OVER CURRENT PROTECTION.
	WALL MOUNTED COMBINATION FIRE ALARM HORN/STROBE DEVICE.
	WALL MOUNTED FIRE ALARM MANUAL PULL STATION
	SPRINKLER WATER FLOW SWITCH.
	SPRINKLER TAMPER SWITCH.
	MOTORIZED DAMPER
	FIRE/SMOKE MOTORIZED DAMPER PROVIDED BY OTHERS AND WIRED BY E.C.. E.C. SHALL PROVIDE RELAYS AND DRY CONTACTS FOR FIRE ALARM MONITORING/INTERFACE/DAMPER CONTROL. PROVIDE ALL WIRING AS REQUIRED.
	CEILING MOUNTED IONIZATION TYPE SMOKE DETECTOR
	PHOTOELECTRIC SMOKE BEAM DETECTOR TRANSMITTER AND RECEIVER WITH REFLECTOR
	REMOTE INDICATING PANEL FOR SMOKE BEAM DETECTOR. NUMERAL INDICATES DETECTOR SERVED.
	CEILING OR WALL MOUNTED CARBON MONOXIDE DETECTOR
	CEILING OR WALL MOUNTED GAS LEAK DETECTOR
	DUCT MOUNTED PHOTOELECTRIC TYPE SMOKE DETECTOR WITH REMOTE MOUNTED L.E.D. AND TEST BUTTON. MOUNT L.E.D. & TEST BUTTON UNDER SINGLE COVER PLATE ON CEILING (TYP. U.O.N.). PROVIDE (REMOTE) CONTROL RELAY MODULE FOR FAN SHUT DOWN. RELAY MODULE TO BE MOUNTED ADJACENT TO MECHANICAL EQUIPMENT. ALSO PROVIDE LOAD RELAY AS REQUIRED IF EXISTING DISCONNECT/STARTER DO NOT HAVE A SET OF DRY CONTACTS TO TIE-IN FOR FAN SHUTDOWN.
	DUCT MOUNTED PHOTOELECTRIC TYPE SMOKE DETECTOR WITH (REMOTE) CONTROL RELAY MODULE FOR FAN SHUT DOWN. RELAY MODULE TO BE MOUNTED ADJACENT TO MECHANICAL EQUIPMENT. ALSO PROVIDE LOAD RELAY AS REQUIRED IF EXISTING DISCONNECT/STARTERS DO NOT HAVE A SET OF DRY CONTACTS TO TIE-IN FOR FAN SHUTDOWN.
	CEILING MOUNTED HEAT DETECTOR
	WALL MOUNTED FIRE ALARM STROBE LIGHT.
	FIRE ALARM CONTROL PANEL
	FIRE ALARM ALPHANUMERIC ANNUNCIATOR PANEL.
	CONTROL STATION FOR GAS VALVE
	ELECTROMAGNETIC DOOR HOLDER. FURNISHED BY GENERAL CONTRACTOR VENDOR AND INSTALLED BY ELECTRICAL CONTRACTOR
	FLOOR MOUNTED ELECTROMAGNETIC DOOR HOLDER FURNISHED BY GENERAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR
	INTERFACE MODULE CONSISTING OF CONTROL RELAY AND MONITOR MODULES. IN NEMA 1 ENCLOSURE. ALSO PROVIDE LOAD RELAY AS REQUIRED IF EXISTING DISCONNECT/STARTERS DO NOT HAVE A SET OF DRY CONTACTS TO TIE-IN FOR FAN SHUTDOWN.
	BREAK GLASS STATION FOR BOILER SHUT DOWN.
	EMERGENCY POWER OFF KEY SWITCH/PUSH BUTTON
	WIRELESS ACCESS POINT. PROVIDE (1) CAT 6 CABLE PER LOCATION. DEVICE COLOR TO BE SELECTED BY OWNER/ARCH. INCLUDE ALL ASSOCIATED ACCESSORIES FOR A COMPLETE SYSTEM.
	MOTARIZED SHADES KEYPAD SIMILAR TO SOMFY DECOFLX
	MOTARIZED SHADES CONTROLLER SIMILAR TO SOMFY # 4NI.
	RESCUE ASSISTANCE ANNUNCIATOR PANEL AS INDICATED ON PLAN
	RESCUE ASSISTANCE REMOTE ANNUNCIATOR
	AREA OF REFUGE CALL STATION
	TAG SYMBOL. NUMERAL DENOTES REFERENCE TO A WORK NOTE.

MECHANICAL EQUIPMENT IDENTIFICATION:	
	EQUIPMENT ABBREVIATION (FE, SF, HV, ETC. SEE ABBREVIATIONS ON THIS DWG.)
	EQUIPMENT NUMBER

DETAIL/PART PLAN NUMBER IDENTIFICATION:	
	DETAIL/PART PLAN NUMBER
	DRAWING NUMBER

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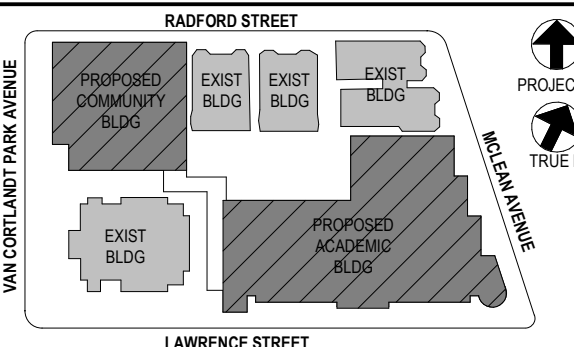
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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN
No.	Date	Issue

Sheet Title

LEGENDS ABBREVIATIONS AND NOTES

Job No.	2019-1026	Date	08/31/20
Scale	AS NOTED	Drawn / Checked	BGA/ BGA
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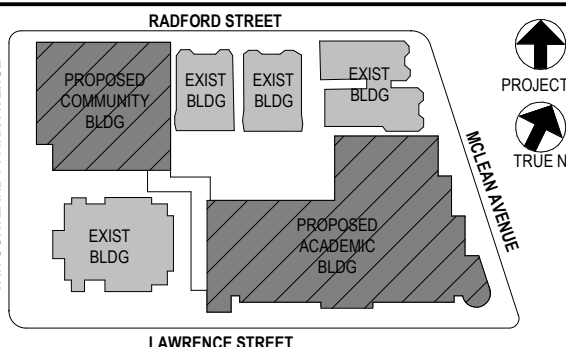


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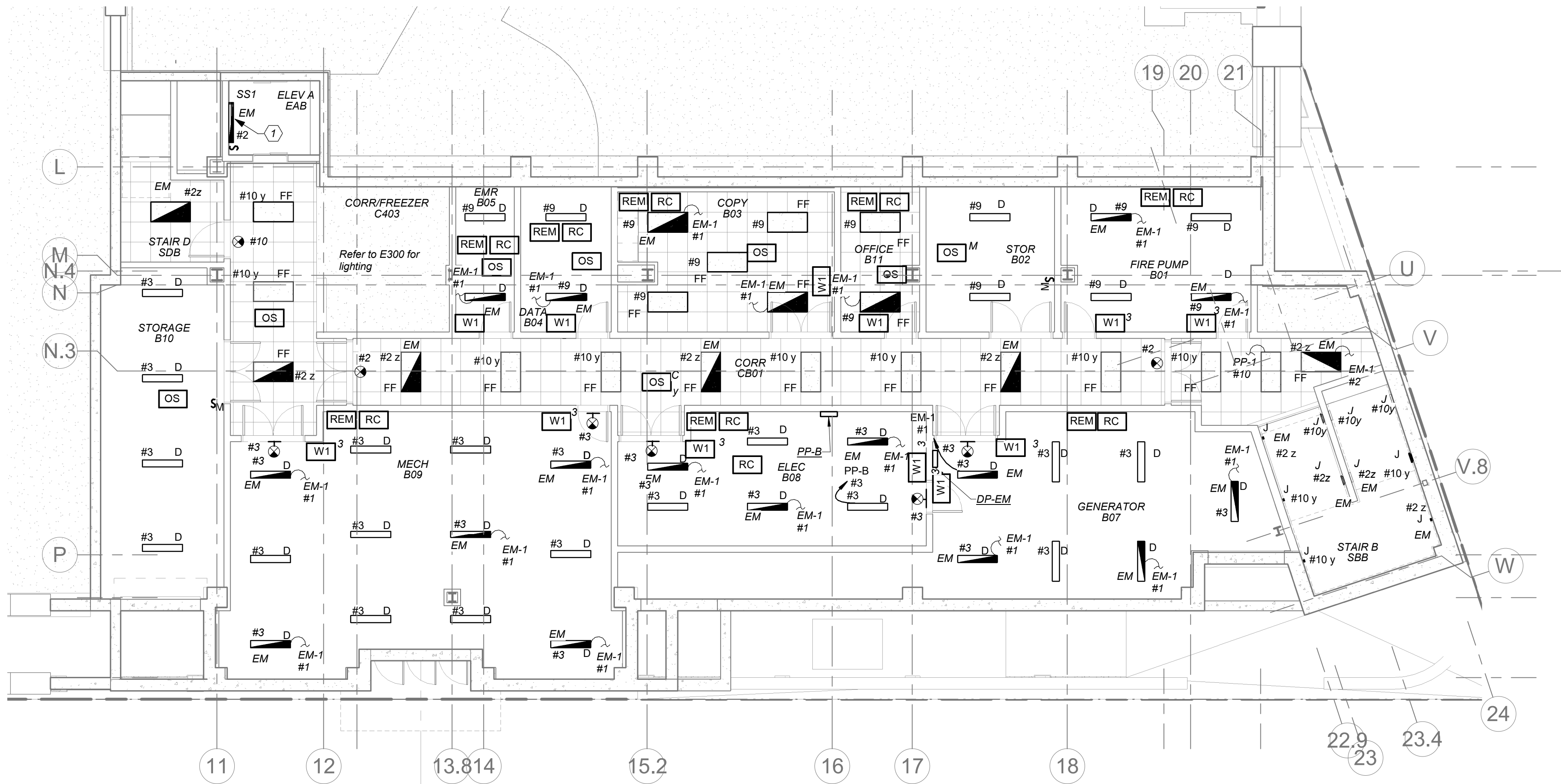
BASEMENT FLOOR ELECTRICAL
LIGHTING PLAN

Job No. 2019-1026 Date 8/31/20

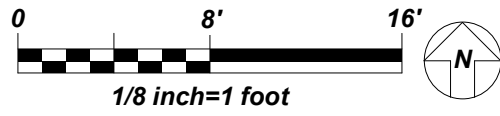
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E200



BASEMENT FLOOR ELECTRICAL LIGHTING
PLAN



LIGHTING CONTROLS AND SEQUENCE OF OPERATION

- MECHANICAL ROOMS, ELECTRICAL ROOM, FIRE PUMP ROOM AND GENERATOR ROOM NORMAL LIGHTS SHALL BE CONNECTED TO ROOM CONTROLLER AND SHALL BE CONTROLLED VIA LOCAL SWITCH ONLY. EMERGENCY LIGHTING IN THESE ROOMS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE SAME LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.
- ALL COMMON AREAS SHALL BE CONTROLLED VIA LOCAL WALL SWITCHES AND OCCUPANCY SENSORS FOR JUST NORMAL LIGHTING. EMERGENCY LIGHTING IN THESE ROOMS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE SAME LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.
- ALL LOBBY, CORRIDORS, AND STAIRWELL NORMAL LIGHTS ARE CONTROLLED OVERRIDE MASTER KEY SWITCH 'MA' AND LONG RANGE OCCUPANCY SENSORS (AUTO ON, AUTO OFF). IN EACH CORRIDOR WILL FUNCTION INDEPENDENTLY AS LOCAL ZONES. ALL LOBBY, CORRIDOR, AND STAIRWELL EMERGENCY LIGHTS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA OVERRIDE MASTER TOGGLE SWITCH 'MD', WHICH CAN SERVE AS SECURITY LIGHT OR ON DEMAND BY AUTHORIZED PERSONNEL (SUCH AS FIRE DEPT). UTILIZE THE LOCAL NORMAL LIGHTING WITHIN THE SAME AREA FOR SENSING CIRCUIT.
- CLASSROOM CONFERENCE ROOM ARE CONTROLLED VIA MANUAL ON AUTO OFF DIMMABLE WALL SWITCH AND OCCUPANCY SENSORS. EACH SWITCH CONSISTS OF FULL DIMMING CAPABILITY OF THREE ZONES. WALL SWITCHES CONSISTS OF 'A', 'B', 'C' OFF, 'RAISE', AND 'LOWER' BUTTONS. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. CLASSROOMS THAT HAVE EMERGENCY LIGHTING SHALL HAVE A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE DESIGNATED ZONE IN LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.

WORK NOTES

- PROVIDE 4' STRIP LIGHTING 4000 LUMENS, 4000K COLOR TEMPERATURE, 0-10V DIMMING. CONNECT TO EMERGENCY LIGHT CIRCUIT MANUFACTURED BY COLUMBIA MODEL# LSCS-4040. EXACT LOCATION OF ELEVATOR PIT LIGHTING FIXTURE INSTALLATION SHALL BE COORDINATED WITH VENDOR BEFORE THE START OF ANY WORK. PROVIDE A LIGHT SWITCH NEAR LADDER AND COORDINATE EXACT LOCATION WITH VENDOR BEFORE THE START OF ANY WORK.

BEFORE FABRICATION THIS CONTRACTOR SHALL
VERIFY ALL MEASUREMENTS AND CONDITIONS ON
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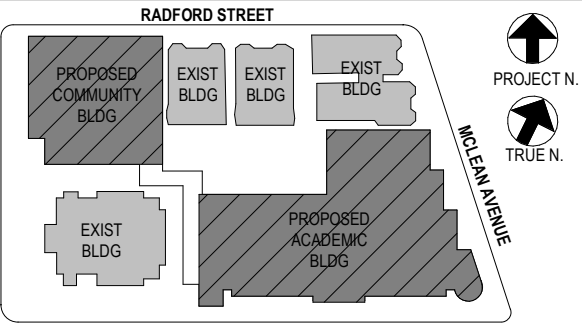
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1	08/31/2020	SCHEMATIC DESIGN

Sheet Title

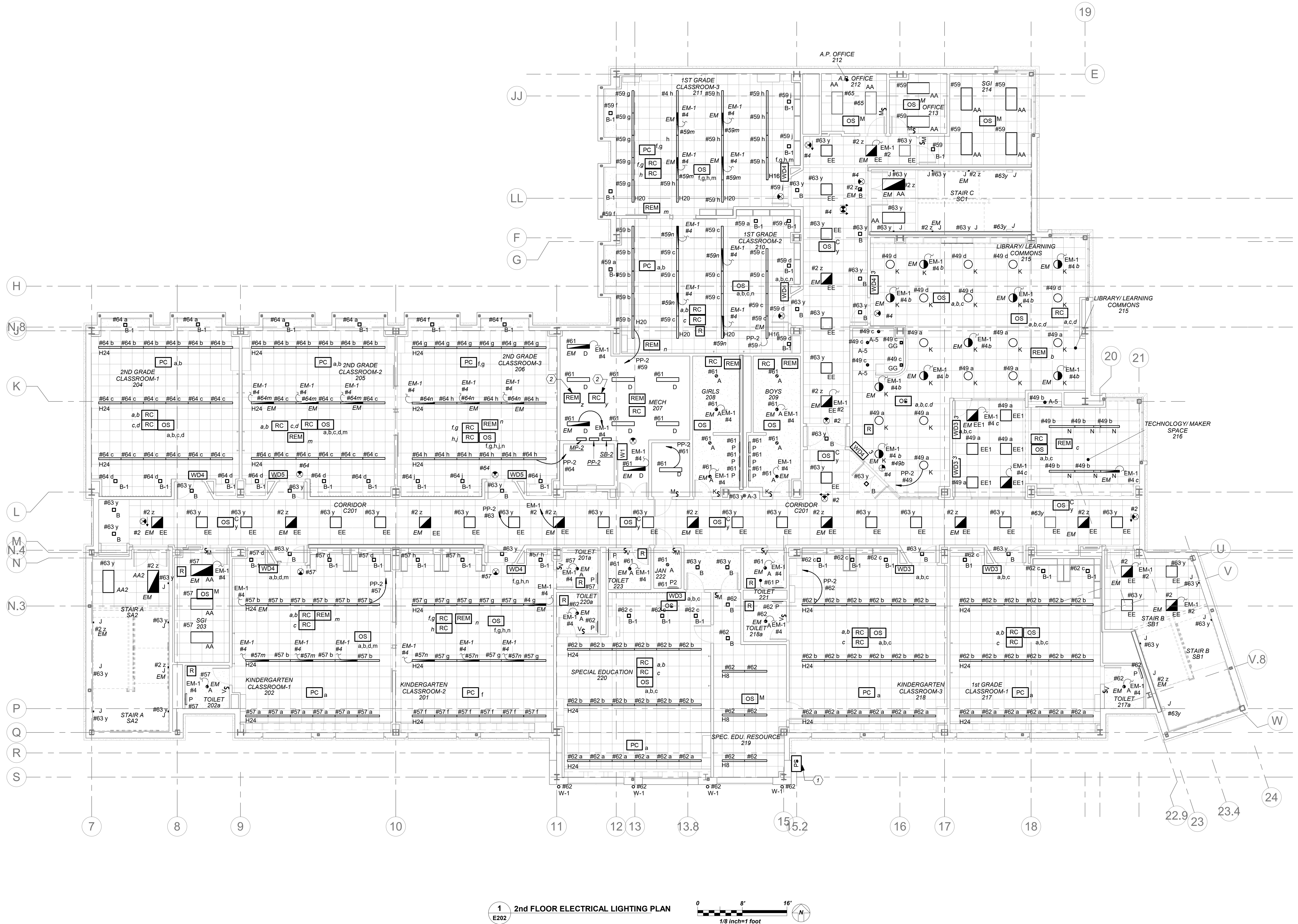
2nd FLOOR ELECTRICAL LIGHTING PLAN

Job No. 2019-1026 Date 8/31/20

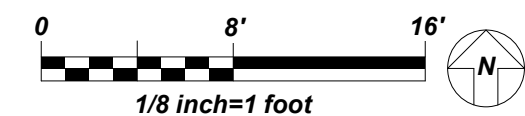
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E202



1 2nd FLOOR ELECTRICAL LIGHTING PLAN
E202



LIGHTING CONTROLS AND SEQUENCE OF OPERATION

- MECHANICAL ROOMS NORMAL LIGHTS SHALL BE CONNECTED TO ROOM CONTROLLER AND SHALL BE CONTROLLED VIA LOCAL SWITCH ONLY. EMERGENCY LIGHTING IN THESE ROOMS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE SAME LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.
- ALL COMMON AREAS SHALL BE CONTROLLED VIA LOCAL WALL SWITCHES AND OCCUPANCY SENSORS FOR JUST NORMAL LIGHTING. EMERGENCY LIGHTING IN THESE ROOMS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE SAME LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.
- ALL LOBBY, CORRIDORS, AND STAIRWELL NORMAL LIGHTS ARE CONTROLLED OVERRIDE MASTER KEY SWITCH 'MA' AND LONG RANGE OCCUPANCY SENSORS (AUTO ON, AUTO OFF). IN EACH CORRIDOR WILL FUNCTION INDEPENDENTLY AS LOCAL ZONES. ALL LOBBY, CORRIDOR, AND STAIRWELL EMERGENCY LIGHTS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA OVERRIDE MASTER TOGGLE SWITCH 'MO', WHICH CAN SERVE AS SECURITY LIGHT OR ON DEMAND BY AUTHORIZED PERSONNEL (SUCH AS FIRE DEPT). UTILIZE THE LOCAL NORMAL LIGHTING WITHIN THE SAME AREA FOR SENSING CIRCUIT.
- CLASSROOM CONFERENCE ROOM ARE CONTROLLED VIA MANUAL ON AUTO OFF DIMMABLE WALL SWITCH AND OCCUPANCY SENSORS. EACH SWITCH CONSISTS OF FULL DIMMING CAPABILITY OF THREE ZONES. WALL SWITCHES CONSISTS OF 'A', 'B', 'C' OFF, RAISE, AND LOWER BUTTONS. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. CLASSROOMS THAT HAVE EMERGENCY LIGHTING, SHALL HAVE A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE DESIGNATED ZONE IN LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.

ELECTRICAL LIFE SAFETY AND EMERGENCY LIGHTING WORK SCOPE NOTES

- PROVIDE NEW EXIT AND EMERGENCY LIGHTING AS REQUIRED BY CODE. PROVIDE NEW EXIT LIGHTS AND BRANCH CIRCUITRY TO SERVE EXIT LIGHTS.
- ALL EMERGENCY LIGHTING ARE FED FROM GENERATOR WITH UL924 EMERGENCY LIGHTING RELAY TO BYPASS SWITCHING, WHICH BRINGS EMERGENCY LIGHTING FIXTURES TO FULL ILLUMINATION WHEN THERE IS A UTILITY POWER OUTAGE.

WORK NOTES

- PROVIDE TORK 2001 SERIES PHOTOCELL WHICH IS TO BE MOUNTED ON BUILDING WALL TO OPERATE EXTERIOR EMERGENCY LIGHTING. CONTRACTOR TO AVOID MOUNTING PHOTOCELL UNDER OVERHANGS.
- THE NORMAL ROOM CONTROLLER 'Y' AND EMERGENCY ROOM CONTROLLER 'Z' SHALL CONTROL CORRIDOR LIGHTING ON THE FLOOR AND SHALL BE CONNECTED TO SIMILAR ON OTHER FLOORS. THEY SHALL BE CONTROLLED VIA SWITCHING AT MAIN VESTIBULE 100.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

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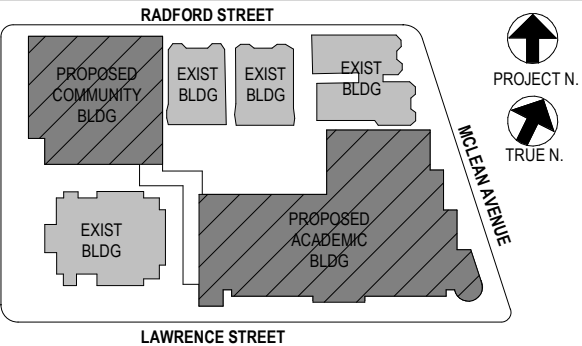
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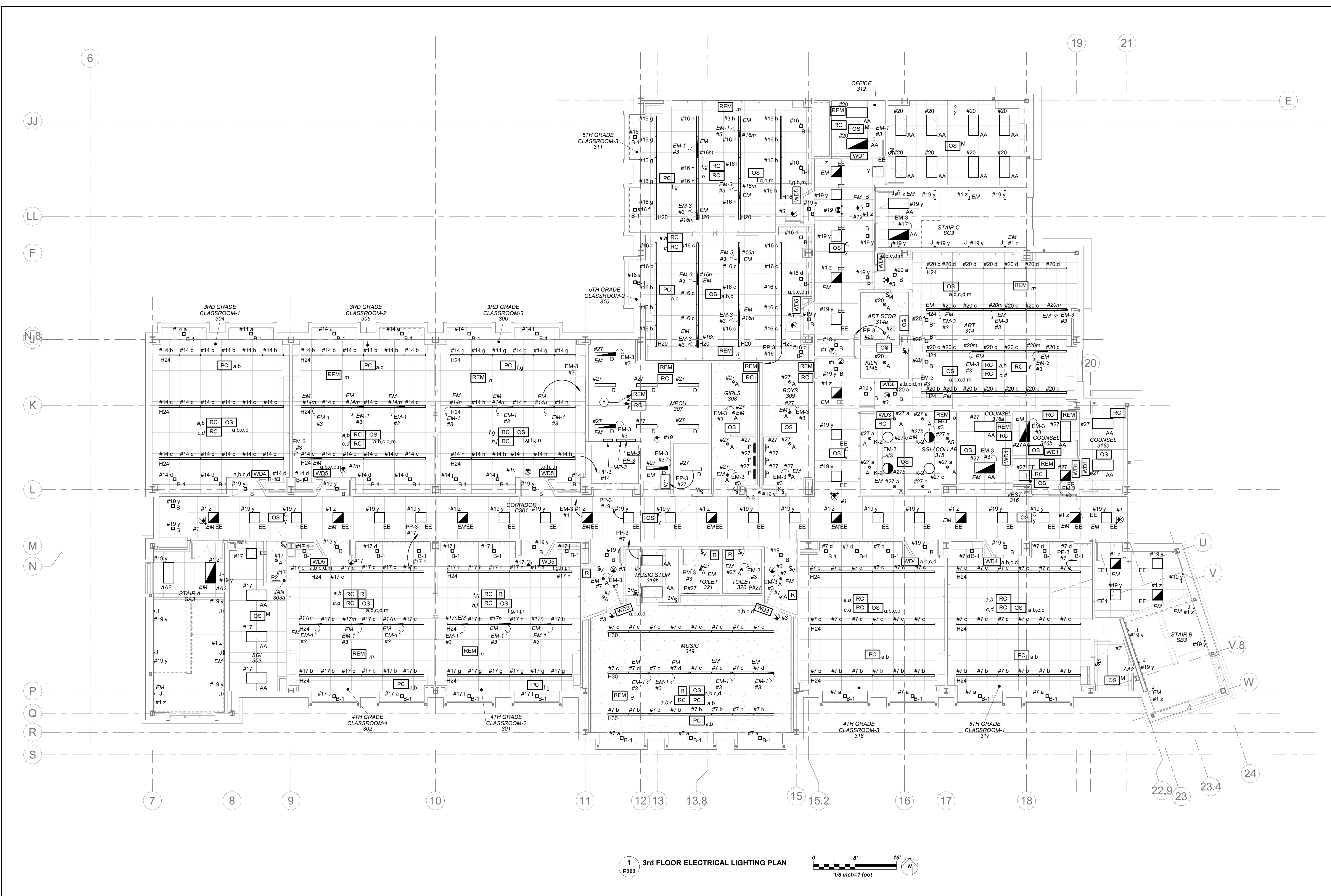
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4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN
Rev	Date	Issue

Sheet Title

3rd FLOOR ELECTRICAL LIGHTING
PLAN

Job No.	2019-1026	Date	8/31/20
Scale	AS NOTED	Drawn / Checked	BGA / BGA
Sheet Number	E203		



1 3rd FLOOR ELECTRICAL LIGHTING PLAN
E203

0 8' 16'
1/8 inch=1 foot

ELECTRICAL LIFE SAFETY AND EMERGENCY LIGHTING WORK SCOPE NOTES

1. PROVIDE NEW EXIT AND EMERGENCY LIGHTING AS REQUIRED BY CODE. PROVIDE NEW EXIT LIGHTS AND BRANCH CIRCUITRY TO SERVE EXIT LIGHTS.
2. ALL EMERGENCY LIGHTING ARE FED FROM GENERATOR WITH UL924 EMERGENCY LIGHTING RELAY TO BYPASS SWITCHING WHICH BRINGS EMERGENCY LIGHTING FIXTURES TO FULL ILLUMINATION WHEN THERE IS A UTILITY POWER OUTAGE.

LIGHTING CONTROLS AND SEQUENCE OF OPERATION

1. MECHANICAL ROOMS NORMAL LIGHTS SHALL BE CONNECTED TO ROOM CONTROLLER AND SHALL BE CONTROLLED VIA LOCAL SWITCH ONLY. EMERGENCY LIGHTING IN THESE ROOMS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE SAME LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.
2. ALL COMMON AREAS SHALL BE CONTROLLED VIA LOCAL WALL SWITCHES AND OCCUPANCY SENSORS FOR JUST NORMAL LIGHTING. EMERGENCY LIGHTING IN THESE ROOMS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE SAME LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.
3. ALL LOBBY, CORRIDORS, AND STAIRWELL NORMAL LIGHTS ARE CONTROLLED OVERRIDE MASTER KEY SWITCH 'MA' AND LONG RANGE OCCUPANCY SENSORS (AUTO ON, AUTO OFF). IN EACH CORRIDOR WILL FUNCTION INDEPENDENTLY AS LOCAL ZONES. ALL LOBBY, CORRIDOR, AND STAIRWELL EMERGENCY LIGHTS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE SAME LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.
4. CLASSROOM CONFERENCE ROOM ARE CONTROLLED VIA MANUAL ON AUTO OFF DIMMABLE WALL SWITCH AND OCCUPANCY SENSORS. EACH SWITCH CONSISTS OF FULL DIMMING CAPABILITY OF THREE ZONES. WALL SWITCHES CONSISTS OF 'A', 'B', 'C' OFF, 'RAISE', AND 'LOWER' BUTTONS. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. CLASSROOMS THAT HAVE EMERGENCY LIGHTING, SHALL HAVE A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE DESIGNATED ZONE IN LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.

WORK NOTES

1. THE NORMAL ROOM CONTROLLER "Y" AND EMERGENCY ROOM CONTROLLER "Z" SHALL CONTROL CORRIDOR LIGHTING ON THIS FLOOR AND SHALL BE CONNECTED TO SIMILAR ON OTHER FLOORS. THEY SHALL BE CONTROLLED VIA SWITCHING AT MAIN VESTIBULE 100.

BEFORE FABRICATION THIS CONTRACTOR SHALL
VERIFY ALL MEASUREMENTS AND CONDITIONS ON
JOB AND COORDINATE HIS WORK WITH THE WORK
OF ALL OTHER CONTRACTORS

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121 McLean Avenue
Yonkers, NY 10705



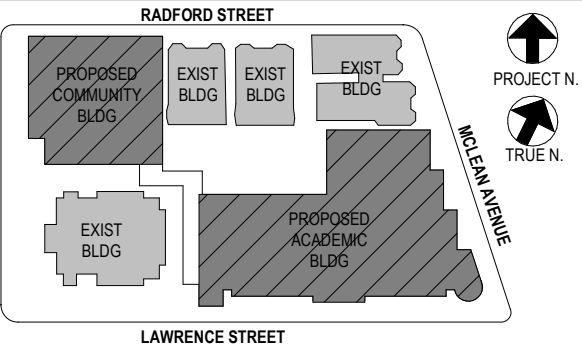
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NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS



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No.	Date	Issue
Sheet Title		

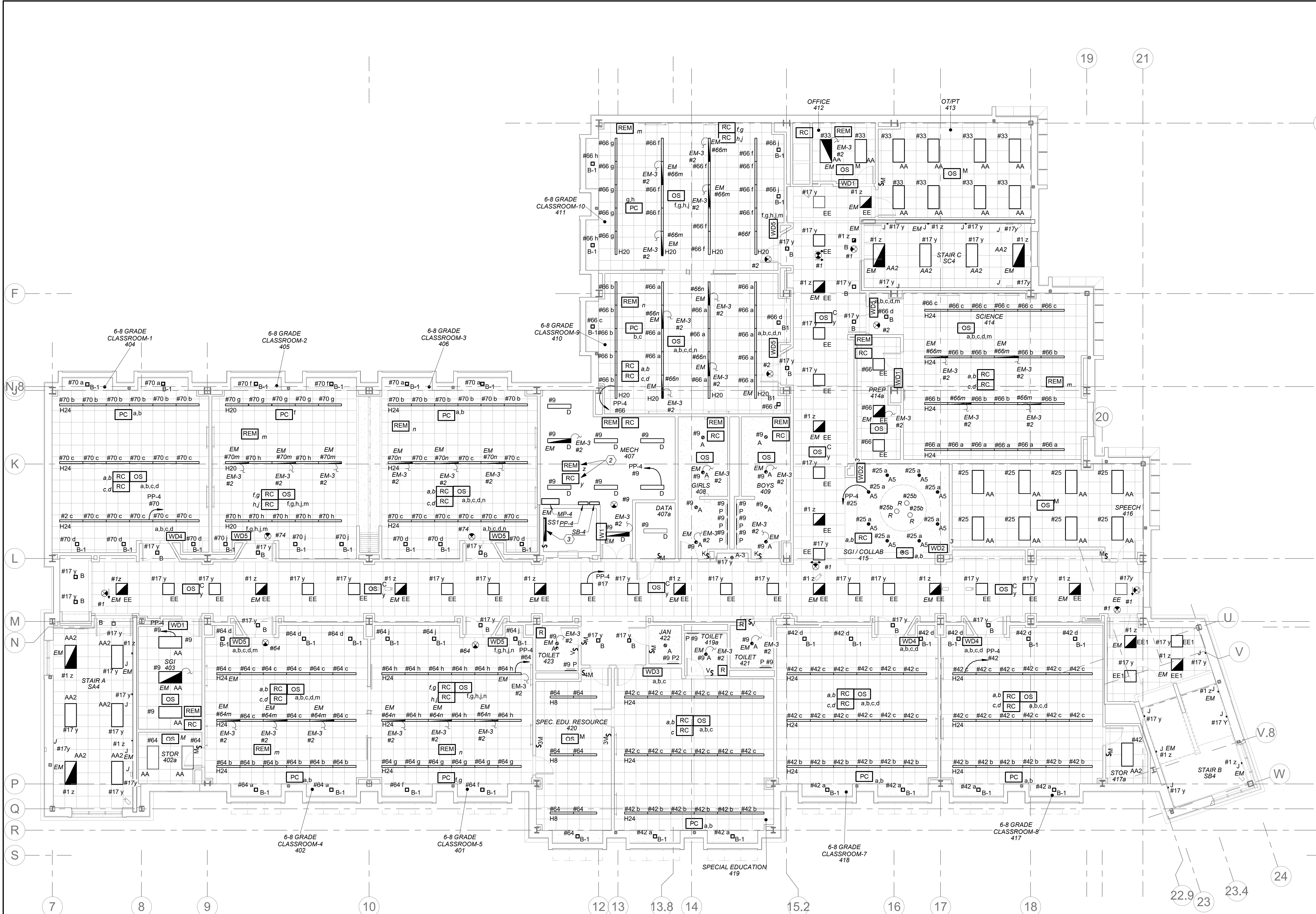
4th FLOOR ELECTRICAL LIGHTING
PLAN

Job No. 2019-1026 Date 8/31/20

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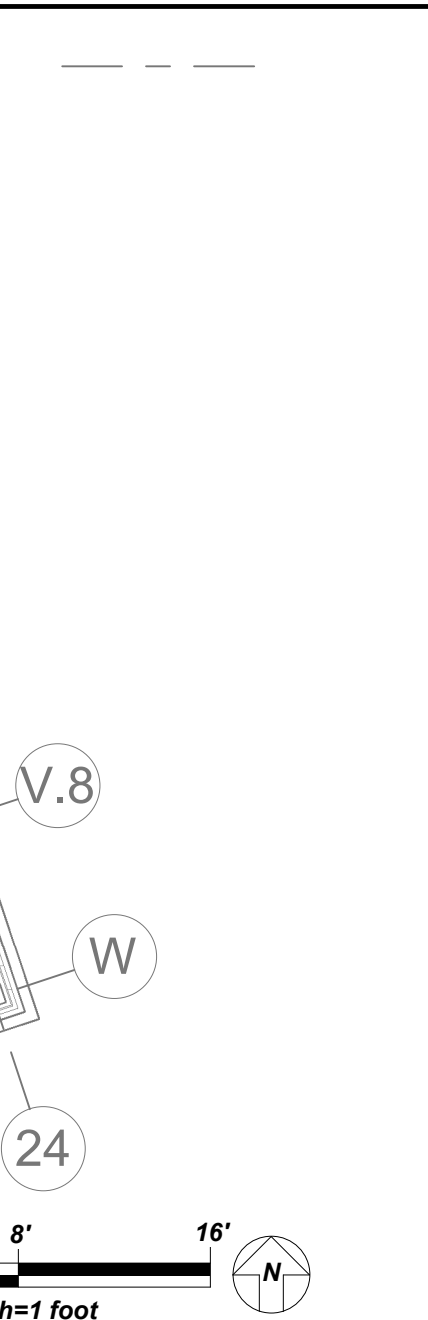
Sheet Number

E204



1 4th FLOOR ELECTRICAL LIGHTING PLAN

0 8' 16'
1/8 inch=1 foot



3 ROOF LIGHTING

0 8' 16'
1/8 inch=1 foot

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

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ELECTRICAL LIFE SAFETY AND EMERGENCY LIGHTING WORK SCOPE NOTES

- PROVIDE NEW EXIT AND EMERGENCY LIGHTING AS REQUIRED BY CODE. PROVIDE NEW EXIT LIGHTS AND BRANCH CIRCUITRY TO SERVE EXIT LIGHTS.
- ALL EMERGENCY LIGHTING ARE FED FROM GENERATOR WITH UL924 EMERGENCY LIGHTING RELAY TO BYPASS SWITCHING, WHICH BRINGS EMERGENCY LIGHTING FIXTURES TO FULL ILLUMINATION WHEN THERE IS A UTILITY POWER OUTAGE.

LIGHTING CONTROLS AND SEQUENCE OF OPERATION

- MECHANICAL ROOMS NORMAL LIGHTS SHALL BE CONNECTED TO ROOM CONTROLLER AND SHALL BE CONTROLLED VIA LOCAL SWITCH ONLY. EMERGENCY LIGHTING IN THESE ROOMS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE SAME LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.
- ALL COMMON AREAS SHALL BE CONTROLLED VIA LOCAL WALL SWITCHES AND OCCUPANCY SENSORS FOR JUST NORMAL LIGHTING. EMERGENCY LIGHTING IN THESE ROOMS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE SAME LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.
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- CLASSROOM CONFERENCE ROOM ARE CONTROLLED VIA MANUAL ON AUTO OFF DIMMABLE WALL SWITCH AND OCCUPANCY SENSORS. EACH SWITCH CONSISTS OF FULL DIMMING CAPABILITY OF THREE ZONES. WALL SWITCHES CONSISTS OF 'A', 'B', 'C' 'OFF', 'RAISE', AND 'LOWER' BUTTONS. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. CLASSROOMS THAT HAVE EMERGENCY LIGHTING, SHALL HAVE A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY, AND CONTROLLED VIA THE DESIGNATED ZONE IN LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.

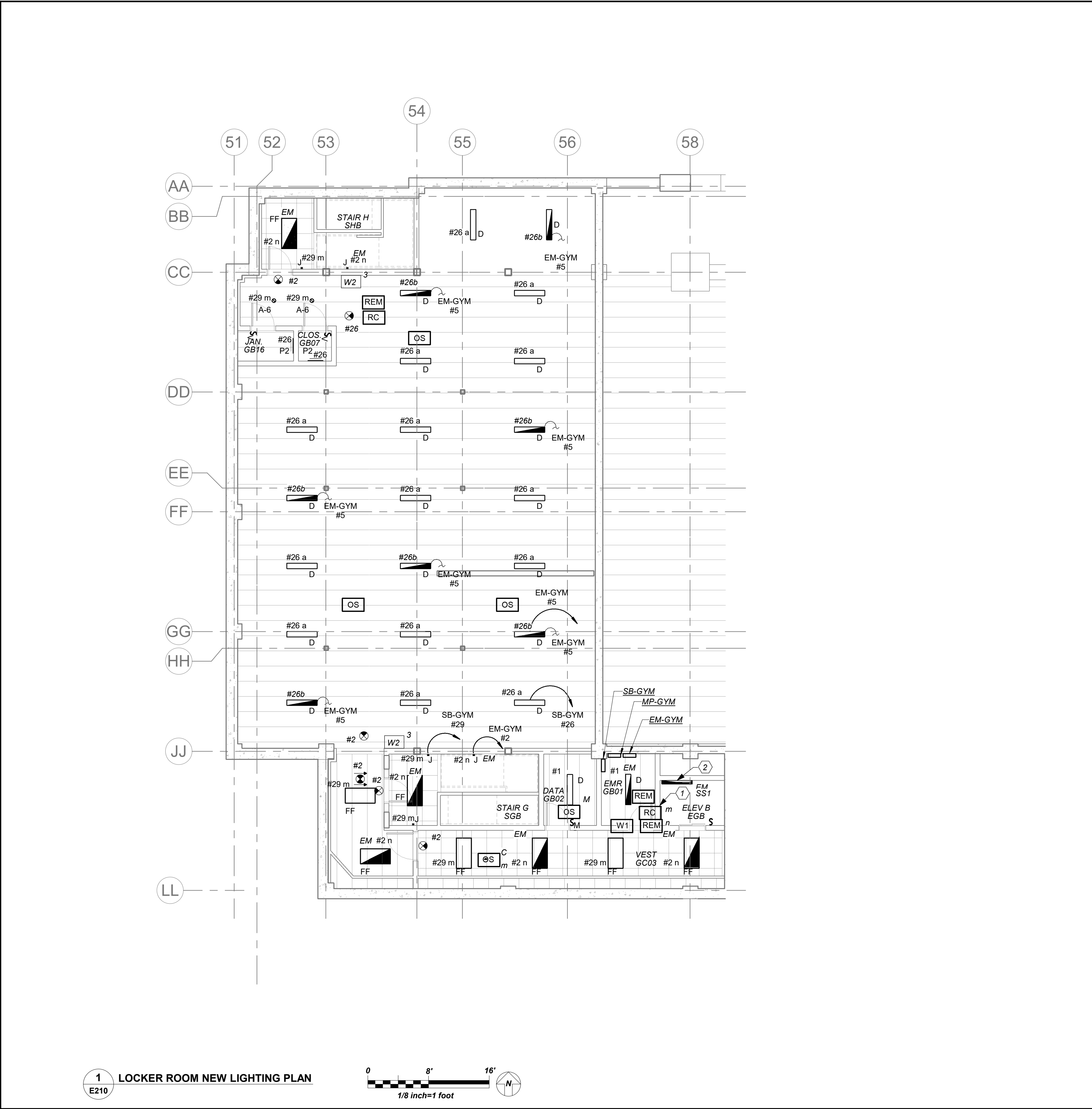
ELECTRICAL LIFE SAFETY AND EMERGENCY LIGHTING WORK SCOPE NOTES

- PROVIDE NEW EXIT AND EMERGENCY LIGHTING AS REQUIRED BY CODE. PROVIDE NEW EXIT LIGHTS AND BRANCH CIRCUITRY TO SERVE EXIT LIGHTS.
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WORK NOTES

- MOMENTARY SWITCH SHALL CONTROL ROOF LIGHTING.
- THE NORMAL ROOM CONTROLLER 'Y' AND EMERGENCY ROOM CONTROLLER 'Z' SHALL CONTROL CORRIDOR LIGHTING ON THIS FLOOR AND SHALL BE CONNECTED TO SIMILAR ON OTHER FLOORS. THEY SHALL BE CONTROLLED VIA SWITCHING AT MAIN VESTIBULE 100.
- PROVIDE 4' STRIP LIGHTING 4000 LUMENS, 4000K COLOR TEMPERATURE, 0-10V DIMMING, CONNECT TO EMERGENCY LIGHT CIRCUIT MANUFACTURED BY COLUMBIA MODEL# LSCS-4040. EXACT LOCATION OF ELEVATOR SHAFT LIGHTING FIXTURE INSTALLATION SHALL BE COORDINATED WITH VENDOR BEFORE THE START OF ANY WORK. PROVIDE A LIGHT SWITCH NEAR LADDER AND COORDINATE EXACT LOCATION WITH VENDOR BEFORE THE START OF ANY WORK.

BEFORE FABRICATION THIS CONTRACTOR SHALL
VERIFY ALL MEASUREMENTS AND CONDITIONS ON
JOB AND COORDINATE HIS WORK WITH THE WORK
OF ALL OTHER CONTRACTORS



LIGHTING CONTROLS AND SEQUENCE OF OPERATION

- MECHANICAL ROOMS NORMAL LIGHTS SHALL BE CONNECTED TO ROOM CONTROLLER AND SHALL BE CONTROLLED VIA LOCAL SWITCH ONLY. EMERGENCY LIGHTING IN THESE ROOMS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE SAME LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.
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ELECTRICAL LIFE SAFETY AND EMERGENCY LIGHTING WORK SCOPE NOTES

- PROVIDE NEW EXIT AND EMERGENCY LIGHTING AS REQUIRED BY CODE. PROVIDE NEW EXIT LIGHTS AND BRANCH CIRCUITRY TO SERVE EXIT LIGHTS.
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WORK NOTES

- THE NORMAL ROOM CONTROLLER "Y" AND EMERGENCY ROOM CONTROLLER "Z" SHALL CONTROL CORRIDOR LIGHTING ON THIS FLOOR AND SHALL BE CONNECTED TO SIMILAR ON OTHER FLOORS. THEY SHALL BE CONTROLLED VIA SWITCHING AT MAIN VESTIBULE 100.
- PROVIDE 4' STRIP LIGHTING 4000 LUMENS, 4000K COLOR TEMPERATURE, 0-10V DIMMING, CONNECT TO EMERGENCY LIGHT CIRCUIT MANUFACTURED BY COLUMBIA MODEL# LSCS-4040, EXACT LOCATION OF ELEVATOR PIT LIGHTING FIXTURE INSTALLATION SHALL BE COORDINATED WITH VENDOR BEFORE THE START OF ANY WORK. PROVIDE A LIGHT SWITCH NEAR LADDER AND COORDINATE EXACT LOCATION WITH VENDOR BEFORE THE START OF ANY WORK.

**NEW COMMUNITY
SCHOOL AT THE
ST DENIS SITE**

YONKERS JOINT SCHOOL
CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



KG+D . ARCHITECTS PC
285 MAIN STREET MOUNT KISCO, NEW YORK, 10549
P.914.666.5900 KGDARCHITECTS.COM

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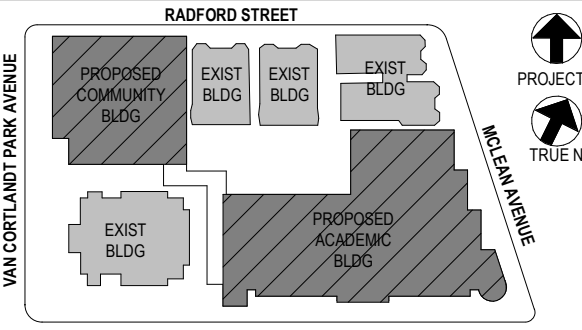
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CONSTRUCTION DOCUMENTS



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914.326.0099 GENERAL@BGA-ENG.COM WWW.BGA-ENG.COM



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1	08/31/2020	SCHEMATIC DESIGN

No. Date Issue

Sheet Title

COMM.WING-BASEMENT ELEC
LIGHTING PLAN

Job No. 2019-1026 Date 8/31/20

Scale AS NOTED Drawn / Checked BGA/ BGA

Sheet Number

E210

ELECTRICAL LIFE SAFETY AND EMERGENCY LIGHTING WORK SCOPE NOTES

1. PROVIDE NEW EXIT AND EMERGENCY LIGHTING AS REQUIRED BY CODE. PROVIDE NEW EXIT LIGHTS AND BRANCH CIRCUITRY TO SERVE EXIT LIGHTS.
2. ALL EMERGENCY LIGHTING ARE FED FROM GENERATOR WITH UL924 EMERGENCY LIGHTING RELAY TO BYPASS SWITCHING, WHICH BRINGS EMERGENCY LIGHTING FIXTURES TO FULL ILLUMINATION WHEN THERE IS A UTILITY POWER OUTAGE.
3. PROVIDE NEW EXTERIOR L.E.D. TYPE EMERGENCY LIGHT OVER EVERY EXTERIOR DOORS CONTROLLED VIA PHOTOCELL.

THEATRICAL RISER WORK NOTES- ADD ALTERNATE

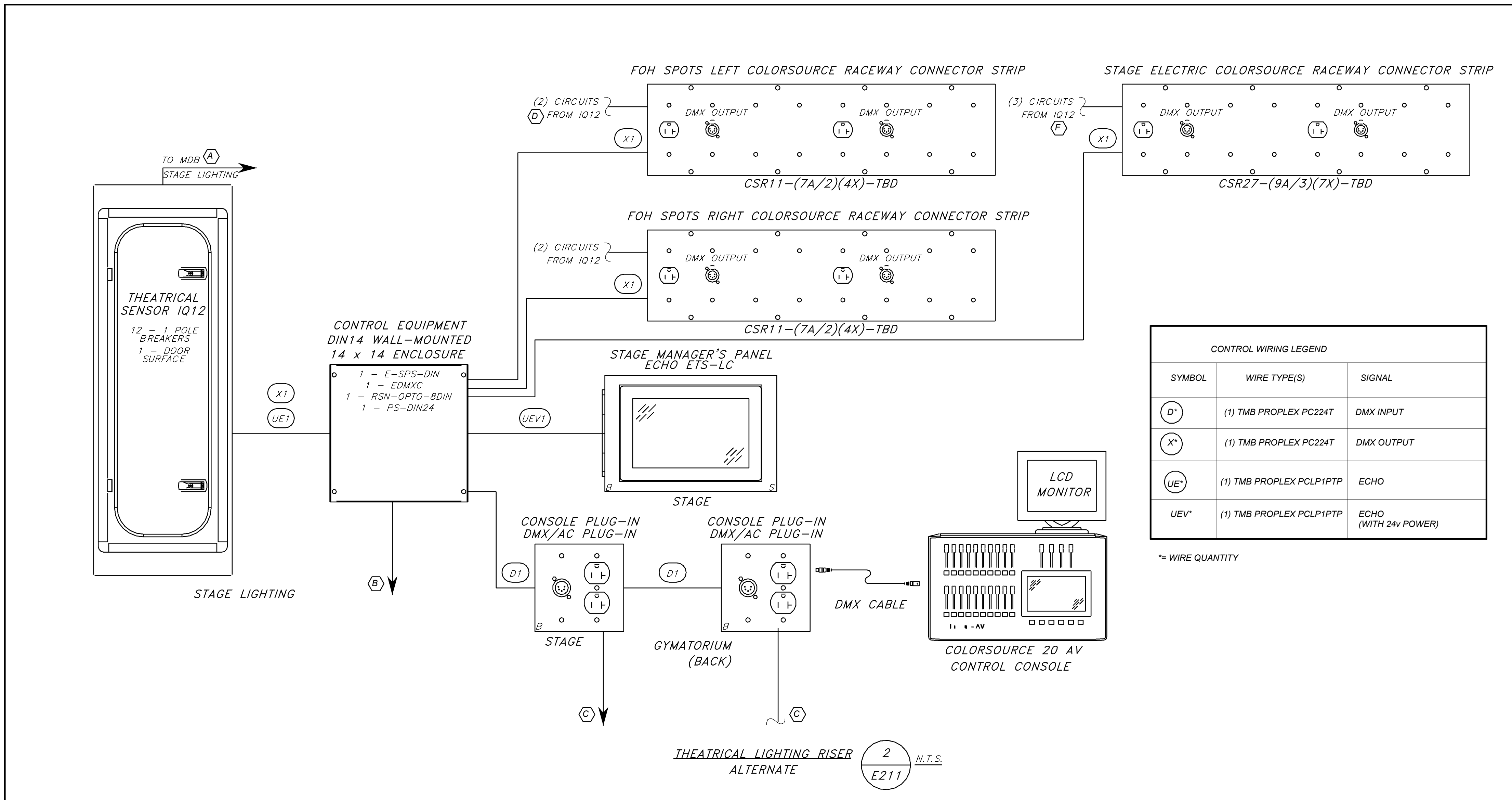
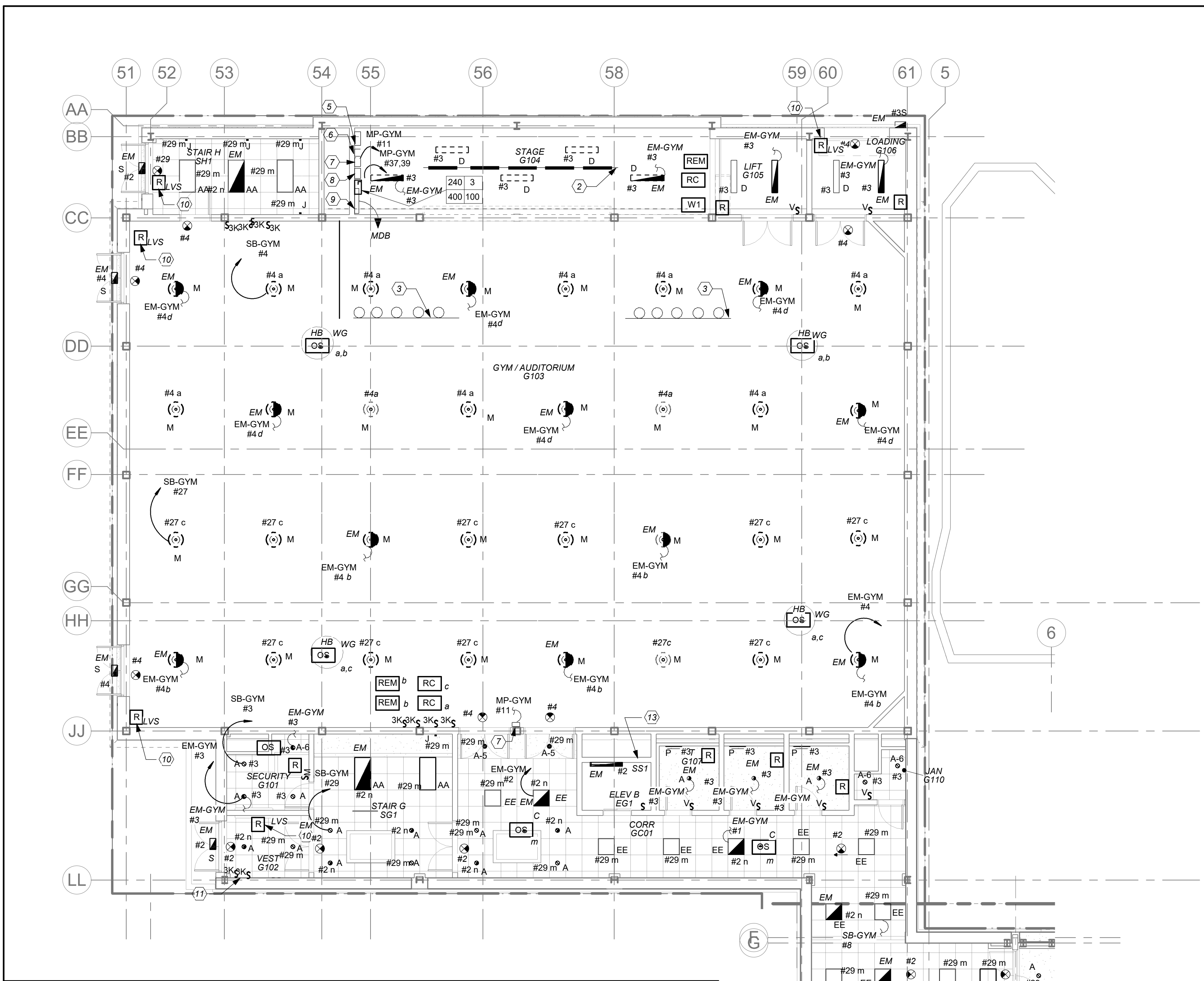
- (A) PROVIDE THEATRICAL SENSOR IQ PANEL WITH (12) 1-POLE BREAKERS. PROVIDE 4-300 KCMIL +1/0G IN 2-1/2" CONDUIT FROM DISCONNECT SWITCH TO THE MAIN DISTRIBUTION BOARD IN THE ELECTRICAL ROOM. REFER TO DRAWING E300 FOR EXACT LOCATION. PROVIDE A 3P-100 AMP BREAKER AT SPACE ON AVAILABLE ON THE BOARD. PROVIDE 4#1+1#6G-1-1/2" FROM DISCONNECT SWITCH TO FEED SENSOR IQ PANEL.
- (B) PROVIDE 2#12+1#12G TO PANEL AS SHOWN. PROVIDE A 2P-20 AMP BREAKER AT PANEL.
- (C) PROVIDE 2#12+1#12G TO PANEL AS SHOWN. PROVIDE A 1P-20 AMP BREAKER AT PANEL.
- (D) PROVIDE (2) 3/4" CONDUIT WITH 2#12+1#12 TO 1P-20A BREAKER AT IQ-20 PANEL.
- (E) PROVIDE (3) 3/4" CONDUIT WITH 2#12+1#12 TO 1P-20 BREAKER AT IQ-20 PANEL.

LIGHTING CONTROLS AND SEQUENCE OF OPERATION

1. MECHANICAL ROOMS, NORMAL LIGHTS SHALL BE CONNECTED TO ROOM CONTROLLER AND SHALL BE CONTROLLED VIA LOCAL SWITCH ONLY. EMERGENCY LIGHTING IN THESE ROOMS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA THE SAME LOCAL SWITCH. IN THE EVENT OF AN EMERGENCY, LIGHTS ON THE EMERGENCY ZONE AND CIRCUIT WILL BE 100% ON REGARDLESS OF SWITCH POSITION.
2. ALL COMMON AREAS SHALL BE CONTROLLED VIA LOCAL WALL SWITCHES AND OCCUPANCY SENSORS FOR JUST NORMAL LIGHTING. EMERGENCY LIGHTING IN THESE ROOMS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA OVERRIDE MASTER TOGGLE SWITCH 'MD', WHICH CAN SERVE AS SECURITY LIGHT OR ON DEMAND BY AUTHORIZED PERSONNEL (SUCH AS FIRE DEPT). UTILIZE THE LOCAL NORMAL LIGHTING WITHIN THE SAME AREA FOR SENSING CIRCUIT.
3. ALL LOBBY, CORRIDORS, AND STAIRWELL NORMAL LIGHTS ARE CONTROLLED OVERRIDE MASTER KEY SWITCH 'MA' AND LONG RANGE OCCUPANCY SENSORS (AUTO ON, AUTO OFF). IN EACH CORRIDOR WILL FUNCTION INDEPENDENTLY AS LOCAL ZONES. ALL LOBBY, CORRIDOR, AND STAIRWELL EMERGENCY LIGHTS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA OVERRIDE MASTER TOGGLE SWITCH 'MD', WHICH CAN SERVE AS SECURITY LIGHT OR ON DEMAND BY AUTHORIZED PERSONNEL (SUCH AS FIRE DEPT). UTILIZE THE LOCAL NORMAL LIGHTING WITHIN THE SAME AREA FOR SENSING CIRCUIT.
4. EXTERIOR BUILDING MOUNTED LIGHTS ARE CONTROLLED VIA BUILT-IN PHOTOCELL AND STEP-DIM MOTION SENSORS. PROVIDE ALL REQUIRED IN BUILT BATTERY BACKUP SHALL OVERRIDE ALL SENSORS (PHOTOCELL AND OCCUPANCY SENSOR) IN THE EVENT OF EMERGENCY AT EGRESS DOORS AS SHOWN.

WORK NOTES

- (1) PROVIDE TORK 2001 SERIES PHOTOCELL WHICH IS TO BE MOUNTED ON BUILDING WALL TO OPERATE EXTERIOR EMERGENCY LIGHTING. CONTRACTOR TO AVOID MOUNTING PHOTOCELL UNDER OVERHANG.
- (2) **BASE BID:** PROVIDE A 2-1/2" CONDUIT FROM THE MAIN ELECTRICAL ROOM TO STAGE WITH DRAGWIRE. FOR THE EXACT LOCATION OF THE MAIN ELECTRICAL ROOM, REFER TO E300.
- (3) **ADD ALTERNATE:** PROVIDE COLOR SOURCE RACEWAY CONNECTOR STRIP. MANUFACTURER ETC. MODEL # CSR11-(7A/2)(4X)-RT.
- (4) **ADD ALTERNATE:** PROVIDE COLOR SOURCE RACEWAY CONNECTOR STRIP. MANUFACTURER ETC. MODEL # CSR27-(9A/3)(7X)-RT.
- (5) **ADD ALTERNATE:** PROVIDE COLOR SOURCE CONSOLE. MANUFACTURER ETC. MODEL # CS40AV WITH LCD MONITOR.
- (6) **ADD ALTERNATE:** PROVIDE STAGE MANAGER'S PANEL. MANUFACTURER ETC. MODEL # ETS-LC-7186A1120.
- (7) **ADD ALTERNATE:** PROVIDE ETC CONSOLE PLUG IN.
- (8) **ADD ALTERNATE:** PROVIDE CONTROL EQUIPMENT DIN 14 WALL MOUNTED WITH 14"x14" ENCLOSURE.
- (9) **ADD ALTERNATE:** PROVIDE THEATRICAL SENSOR IQ PANEL WITH (12) 1-POLE BREAKERS. PROVIDE 4-300 KCMIL +1/0G IN 2-1/2" CONDUIT FROM DISCONNECT SWITCH TO THE MAIN DISTRIBUTION BOARD IN THE ELECTRICAL ROOM. REFER TO DRAWING E300 FOR EXACT LOCATION. PROVIDE A 3P-100 AMP BREAKER AT SPACE ON AVAILABLE ON THE BOARD. PROVIDE 4#1+1#6G IN 1-1/2" FROM DISCONNECT SWITCH TO FEED SENSOR IQ PANEL.
- (10) RELAY SHALL CONTROL EXTERIOR EGRESS EMERGENCY LIGHTS.
- (11) 3 WAY KEYED SWITCHES SHALL CONTROL CORRIDOR LIGHTING FOR THE ENTIRE COMMUNITY BUILDING CORRIDOR LIGHTING. REFER TO E301 FOR ADDITIONAL SWITCHING AND CONTROLS. COORDINATE EXACT LOCATION BEFORE THE START OF ANY WORK.
- (12) NOT USED.
- (13) PROVIDE 4' STRIP LIGHTING 4000 LUMENS, 4000K COLOR TEMPERATURE, 0-10V DIMMING. CONNECT TO EMERGENCY LIGHT CIRCUIT MANUFACTURED BY COLUMBIA MODEL# LCS-4040. EXACT LOCATION OF ELEVATOR SHAFT LIGHTING FIXTURE INSTALLATION SHALL BE COORDINATED WITH VENDOR BEFORE THE START OF ANY WORK. PROVIDE A LIGHT SWITCH NEAR LADDER AND COORDINATE EXACT LOCATION WITH VENDOR BEFORE THE START OF ANY WORK.



CONTROL WIRING LEGEND		
SYMBOL	WIRE TYPE(S)	SIGNAL
(D)	(1) TMB PROPLEX PC224T	DMX INPUT
(X)	(1) TMB PROPLEX PC224T	DMX OUTPUT
(UE)	(1) TMB PROPLEX PCLP1PTP	ECHO
UEV*	(1) TMB PROPLEX PCLP1PTP	ECHO (WITH 24V POWER)

* WIRE QUANTITY

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL CONSTRUCTION BOARD

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Yonkers, NY 10705



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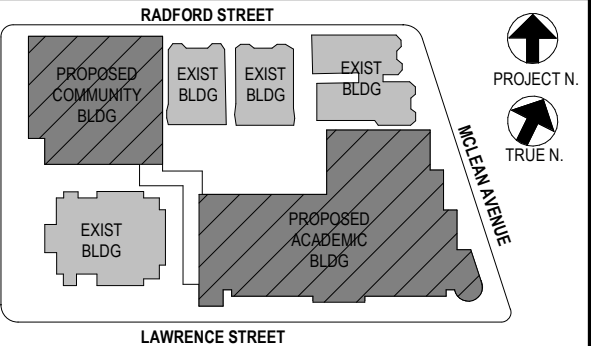
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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

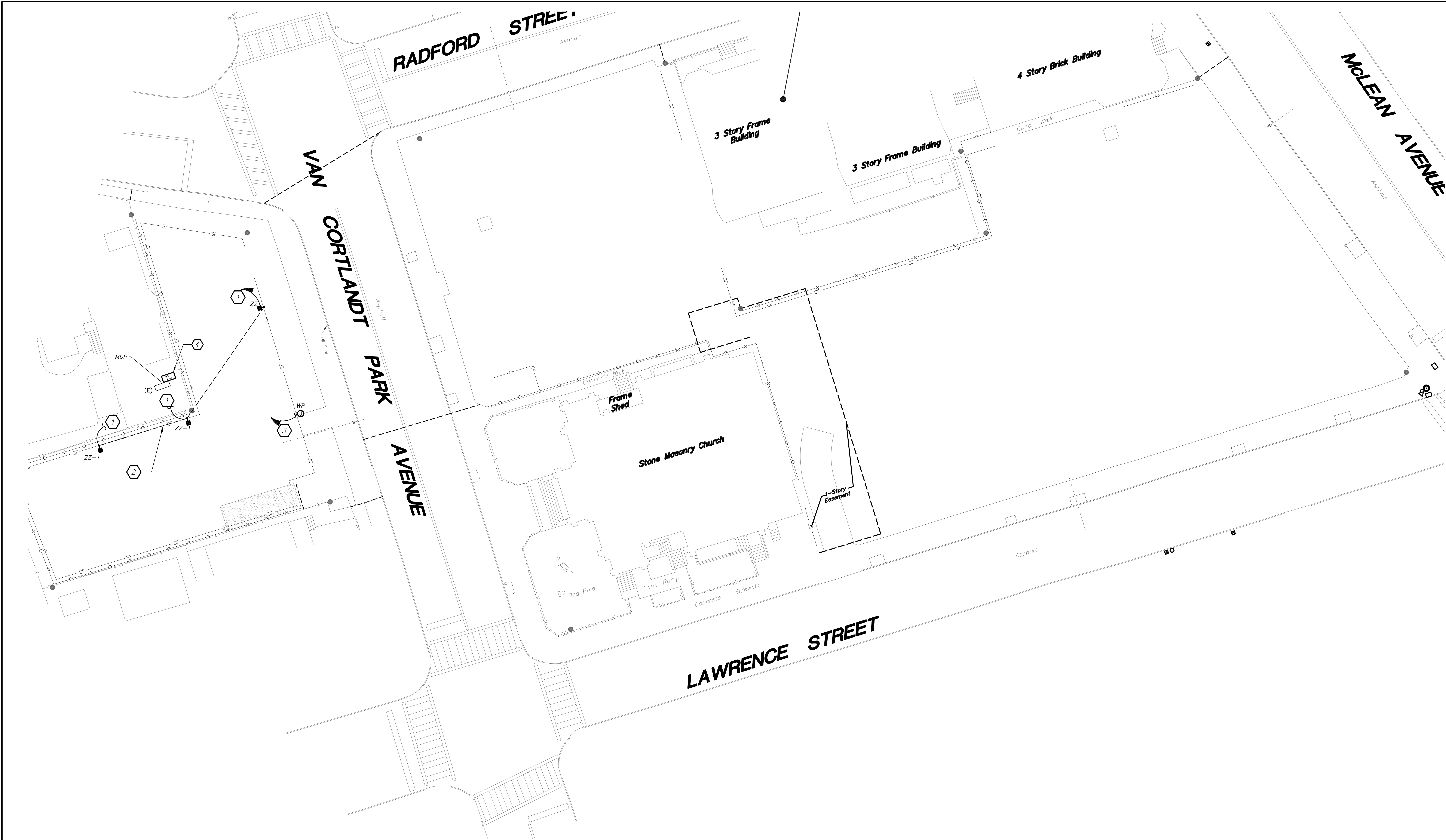
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COMM. WING 1ST FL ELEC LIGHTING PLAN

Job No. 2019-1026 Date 8/31/20
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Sheet Number

E211



SITE ELECTRICAL PLAN
(NEW YORK)

1
E212

0 16' 32'
1/16 inch=1 foot

BEFORE FABRICATION THIS CONTRACTOR SHALL
VERIFY ALL MEASUREMENTS AND CONDITIONS ON
JOB AND COORDINATE HIS WORK WITH THE WORK
OF ALL OTHER CONTRACTORS

GENERAL NOTES:

1. LIGHT FIXTURE TYPE ZZ AND ZZ-1 SHALL BE CONTROLLED VIA INTEGRAL PHOTOCELL.

WORK NOTES:

- 1 PROVIDE 2#12+1#12G IN 3/4" RIGID GALVANIZED CONDUIT FOR SITE POLE LIGHTING TO EXISTING PANEL MDP AS SHOWN.
- 2 SITE LIGHTING: REFER TO SITE ENGINEER DRAWINGS FOR SITE LIGHTING EXCAVATION SCOPE.
- 3 PROVIDE A WEATHER PROOF JUNCTION BOX FOR MOTORIZED GATE. PROVIDE 2#12+1#12 IN 3/4" RIGID GALVANIZED CONDUIT UNDERGROUND TO EXISTING PANEL MDP AS SHOWN. COORDINATE EXACT LOCATION OF JUNCTION BOX BEFORE THE START OF ANY WORK.
- 4 PROVIDE ASTRONOMIC TIME CLOCK FOR LIGHTING CONTROL WITH RESERVE POWER. TORQ 7200ZL SERIES. TIME CLOCK SHALL CONTROL PARKING LOT AND PLAYGROUND LIGHTING. TIME CLOCK SHALL BE PLACED IN NEMA 3R WEATHERPROOF LOCKABLE BOX.

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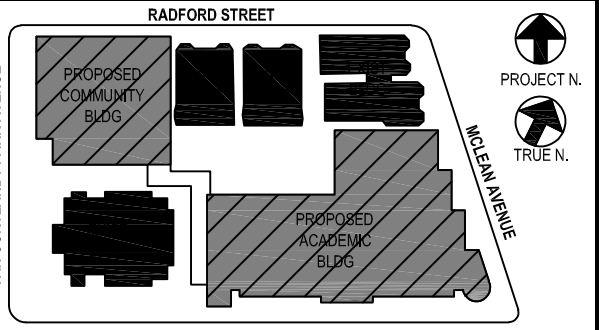
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SITE ELECTRICAL
PLAN

Job No. 2019-1026 Date 11/18/20

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Sheet Number

E212

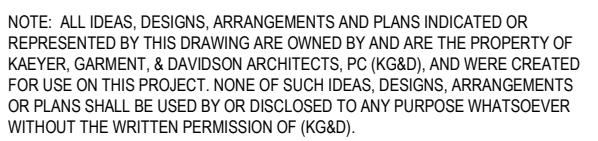
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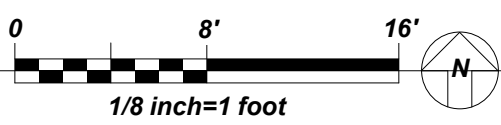
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E213



ALL LOBBY, CORRIDORS, AND STAIRWELL NORMAL LIGHTS ARE CONTROLLED OVERRIDE MASTER KEY SWITCH 'MA' AND LONG RANGE OCCUPANCY SENSORS (AUTO ON, AUTO OFF). IN EACH CORRIDOR WILL FUNCTION INDEPENDENTLY AS LOCAL ZONES. ALL LOBBY, CORRIDOR, AND STAIRWELL EMERGENCY LIGHTS SHALL BE CONNECTED TO A SEPARATE ROOM CONTROLLER WITH BUILT-IN UL 924 EMERGENCY LIGHTING RELAY AND CONTROLLED VIA OVERRIDE MASTER TOGGLE SWITCH 'MD', WHICH CAN SERVE AS SECURITY LIGHT OR ON DEMAND BY AUTHORIZED PERSONNEL (SUCH AS FIRE DEPT). UTILIZE THE LOCAL NORMAL LIGHTING WITHIN THE SAME AREA FOR SENSING CIRCUIT.

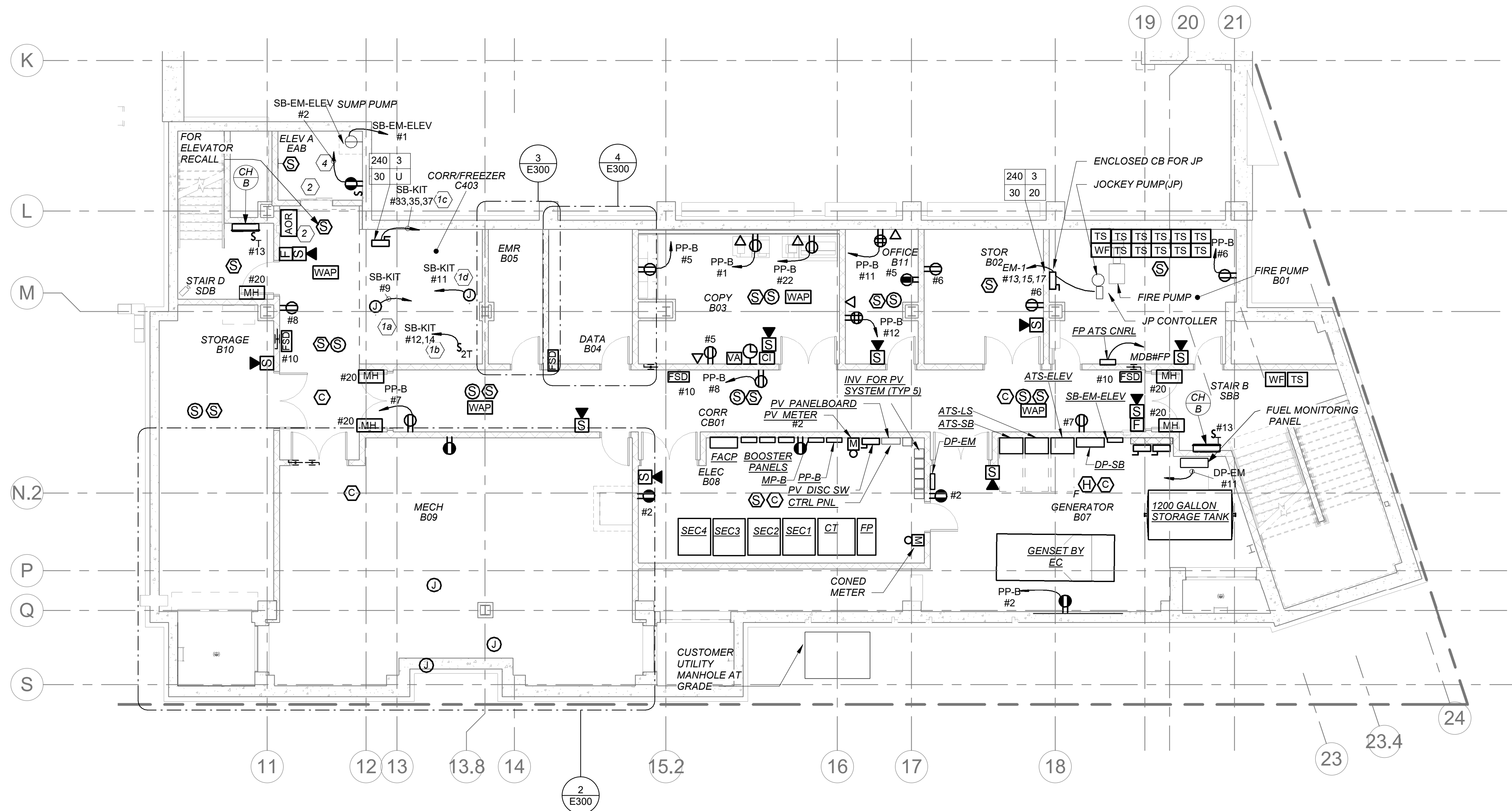
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GENERAL NOTES:

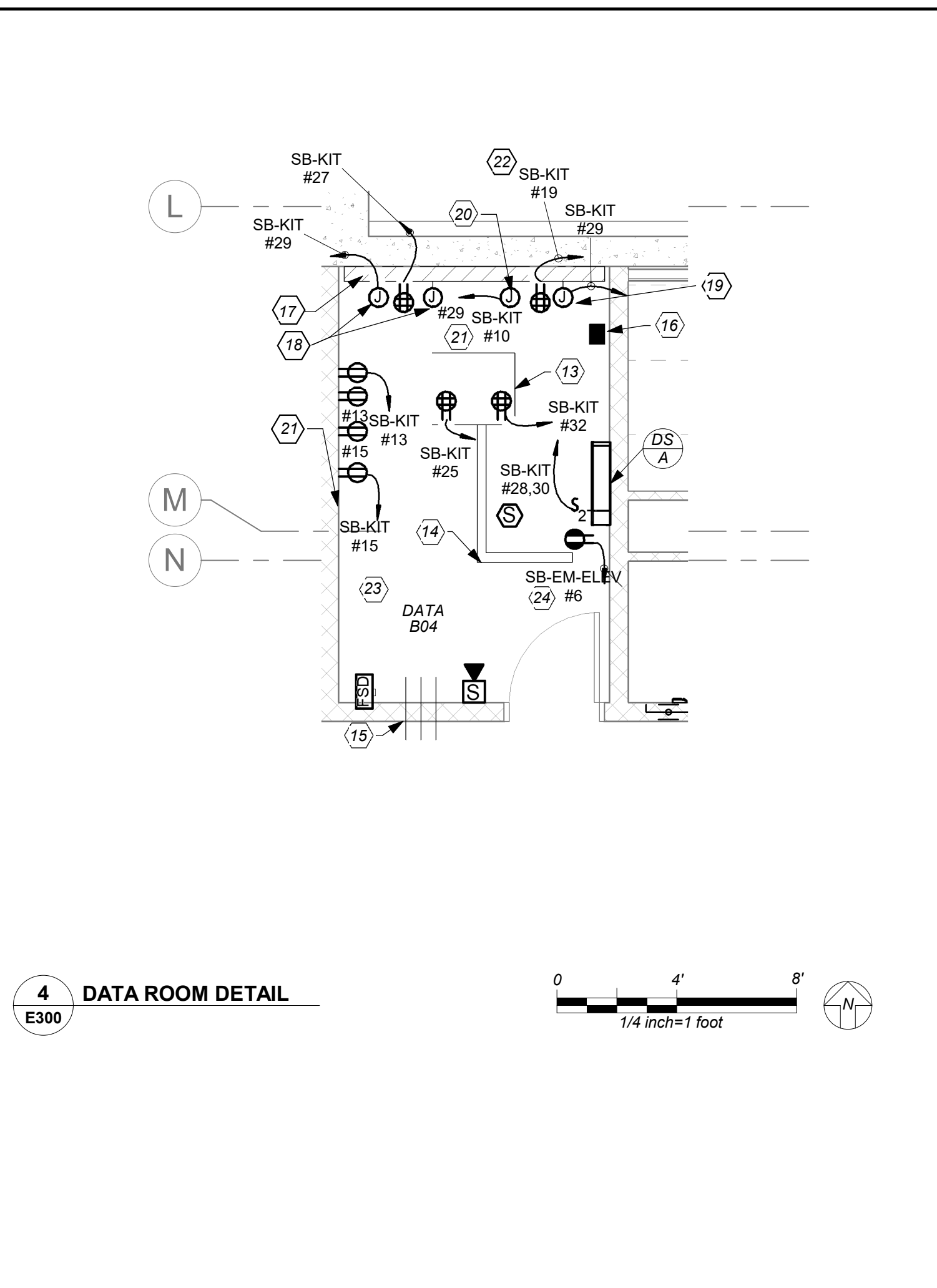
1. REFER TO ELECTRICAL ONE-LINE DIAGRAMS ON DRAWING E500 SERIES, FOR SCOPE OF WORK.
2. REFER TO PANELBOARD SCHEDULE ON DRAWING E500 SERIES FOR BRANCH CIRCUITING INFORMATION.
3. REFER TO DRAWING E700 SEREIS FOR DETAILS.

WORK NOTES:

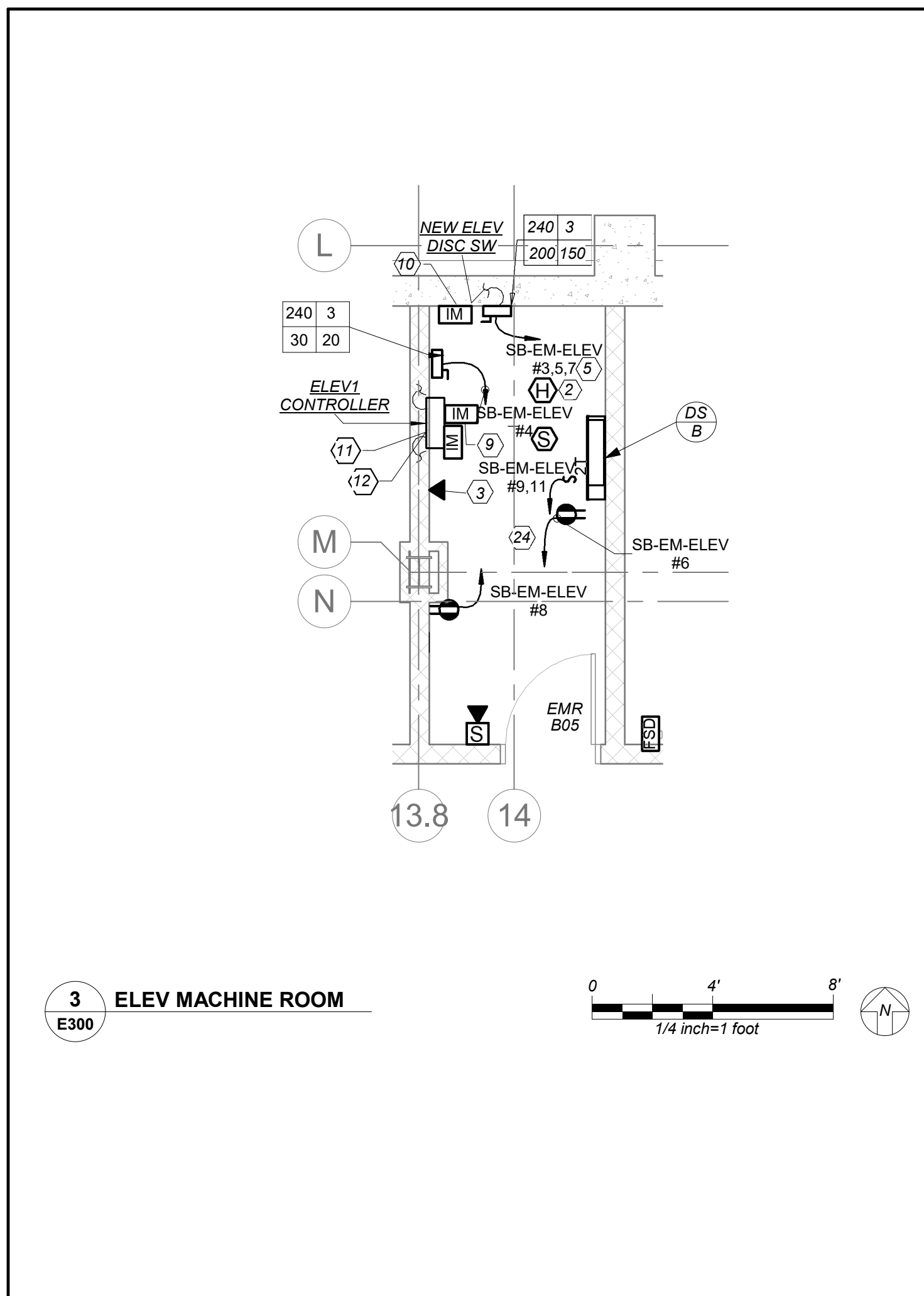
1. PROVIDE THE FOLLOWING BRANCH CIRCUIT FOR WALK-IN FREEZER PER FOLLOWING
 - (1a) CIRCUIT FOR NEW WALK-IN COOLER VAPOR TIGHT LIGHT FIXTURE SHALL BE FURNISHED WITH FREEZER AND EC SHALL INSTALL AND WIRE. ACCOMMODATE ALL REQUIREMENTS FOR EXPANDING FOAM SEALANT INSIDE CONDUIT AT PANEL PENETRATIONS TO AVOID CONDENSATE ACCUMULATION INSIDE LIGHT FIXTURES. REFER TO DETAILS ON KITCHEN DRAWING KA SERIES FOR ADDITIONAL INFORMATION.
 - (1b) CIRCUIT FOR NEW WALK-IN COOLER EVAPORATOR COIL. COORDINATE IN FIELD FOR MOUNTING LOCATION. E.C SHALL INSTALL 5 WIRE CONTROL WIRING FROM DEFROST TIME CLOCK TO DEFROST HEATER ON COOLER EVAPORATOR COIL.
 - (1c) CIRCUIT FOR NEW CONDENSING UNITS FOR WALK-IN FREEZER. COORDINATE IN FIELD FOR EXACT MOUNTING LOCATION.
 - (1d) E.C TO CONNECT ELECTRIC HEAT WRAP TAPE ON FREEZE EVAPORATOR COIL DRAIN LINE FURNISHED BY OTHERS.
2. BEFORE THE START OF ANY WORK EC, GC AND ELEVATOR VENDOR/TECH SHALL COORDINATE THE EXACT LAYOUT OF ELEVATOR EQUIPMENT AND DEVICES WITHIN EMR, ELEVATOR SHAFT TOP AND PIT. THIS INCLUDES AND IS NOT LIMITED TO RECEPTACLES, SWITCHES, LIGHTS, DISC SWITCHES ETC.
3. PROVIDE DIRECT OUTSIDE PHONE LINE FROM ELEVATOR TO DATA ROOM.
4. COORDINATE WITH ELEVATOR VENDOR FOR ALL ELEVATOR REQUIREMENTS AND INCLUDE ALL POWER AND CONTROL WIRING FOR A COMPLETE INSTALLATION. PROVIDE ALL POWER AND CONTROL WIRING REQUIRED BETWEEN ELEVATOR, ELEVATOR MACHINE ROOM AND GENERATOR ROOM.
5. DISCONNECT SWITCH TO FEED ELEVATOR CAR. PROVIDE DRY CONTACT WITH 2#18 - 3/4" C FROM DISCONNECT SWITCH TO ELEVATOR CONTROLLER.
6. RESCUE ASSISTANCE SYSTEM. REFER TO RISER ON DRAWING E503
7. DISCONNECT SWITCH FOR ELEVATOR CAR LIGHT. PROVIDE DRY CONTACT WITH 2#18 - 3/4" C FROM DISCONNECT SWITCH TO ELEVATOR CONTROLLER.
8. NOT USED
9. PROVIDE FIRE ALARM CONTROL RELAY/INTERFACE MONITORING MODULE. ONE FOR FIRE ALARM RECALL/ALTERNATE RECALL AND ONE FOR FIRE HAZALT HAT. MUST BE NORMALLY CLOSED AND CONNECTED TO SET OF DRY CONTACTS WITH CONTROLLER.
10. PROVIDE FIRE ALARM CONTROL RELAY/INTERFACE MONITORING MODULE FOR DISCONNECT TO MONITOR THE POSITION OF MAINLINE DISCONNECT FOR GENERATOR BACKUP.
11. ELECTRICAL CONTRACTOR SHALL PROVIDE AND CONTINUE FEEDER & CONDUIT CONNECTION FROM MAINLINE POWER DISCONNECT TO ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR VENDOR AND ARCHITECT BEFORE START OF WORK.
12. ELECTRICAL CONTRACTOR SHALL PROVIDE AND CONTINUE FEEDER & CONDUIT CONNECTION FROM CAB LIGHT DISCONNECT TO ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR VENDOR AND ARCHITECT BEFORE START OF WORK.
13. NEW 19" RACK. REFER TO SPECIFICATIONS SECTION FOR ADDITIONAL INFORMATION.
14. PROVIDE LADDER 12" WIDE X 12" RUNG SPACING IN CLOSET CONNECTING TO RACK. REFER TO SPECIFICATIONS SECTION FOR ADDITIONAL INFORMATION.
15. PROVIDE NEW (3) 4" CONDUIT SLEEVE THROUGH WALL TO ABOVE CORRIDOR CEILING FOR NEW HORIZONTAL CABLING PATHWAY.
16. FOR FLOOR PENETRATION PROVIDE ONE (1) STIEZ PATH #F-A-3054 FIRE STOP DEVICE MODULE. COORDINATE PENETRATION WITH STRUCTURAL ENGINEER BEFORE START OF ANY WORK.
17. PROVIDE TWO (2) NEW 4X8X3/4" PLYWOOD PAINTED BLACK WITH FIRE RETARDANT PAINT. COORDINATE EXACT MOUNTING LOCATION WITH YONKERS IT DEPT. AND ITG LARSON BEFORE START OF ANY WORK.
18. PROVIDE JUNCTION BOX FOR TWO(2) LOCK P/S REFER TO ITG LARSON DRAWINGS SE-300 AND COORDINATE WITH ITG LARSON BEFORE START OF ANYWORK.
19. PROVIDE JUNCTION BOX FOR ILDA INTERFACE REFER TO ITG LARSON DRAWINGS SE-300
20. PROVIDE JUNCTION BOX FOR BURGLAR ALARM INTERFACE REFER TO ITG LARSON BEFORE START OF ANY WORK.
21. PROVIDE FOR CCTV DATA RACK. REFER TO ITG LARSON DRAWINGS SE-300.
22. THESE RECEPTACLES ARE FOR IT EQUIPMENT. COORDINATE WITH YONKERS IT DEPT FOR EXACT MOUNTING LOCATIONS BEFORE START OF ANY WORK.
23. THIS CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE WIRING INTERCONNECTION FOR IT AND SECURITY FROM ALL DEVICES TO PATCH PANEL INCLUDING BUT NOT LIMITED TO DEVICE INSTALLATION, SUPPORT BRACKETS, JUNCTION BOXES, WIRING SUPPORTS, LABELING TAGGING ETC. REFER TO ITG LARSON DRAWINGS SERIES SE FOR ALL REQUIREMENTS INCLUDED IN THIS CONTRACTORS SCOPE.
24. PROVIDE CEILING MOUNTED GFI OUTLET FOR CONDENSATE PUMP COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR BEFORE INSTALLING THE OUTLET.



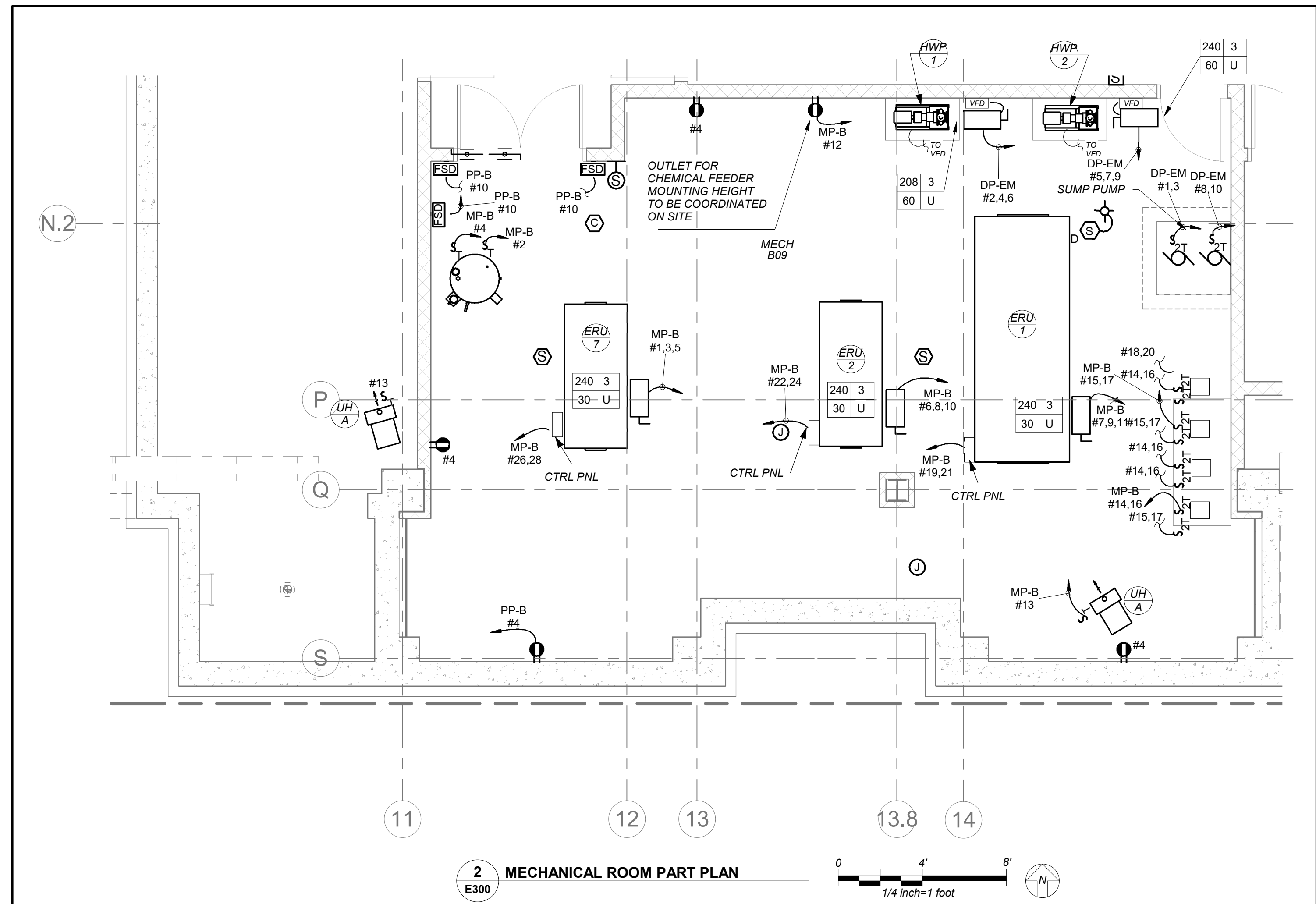
1 BASEMENT POWER AND FA PLAN



4 DATA ROOM DETAIL



3 ELEV MACHINE ROOM



2 MECHANICAL ROOM PART PLAN

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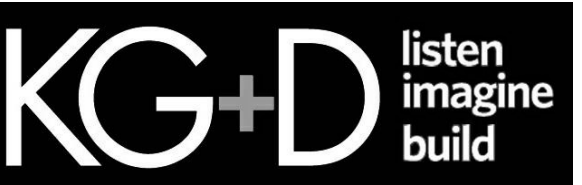
BASEMENT POWER AND FA PLAN

Job No.	2019-1026	Date	8/31/20
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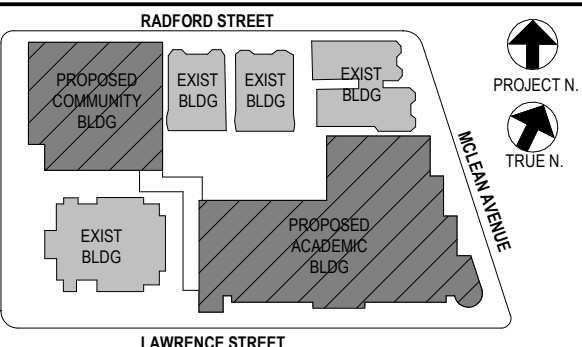
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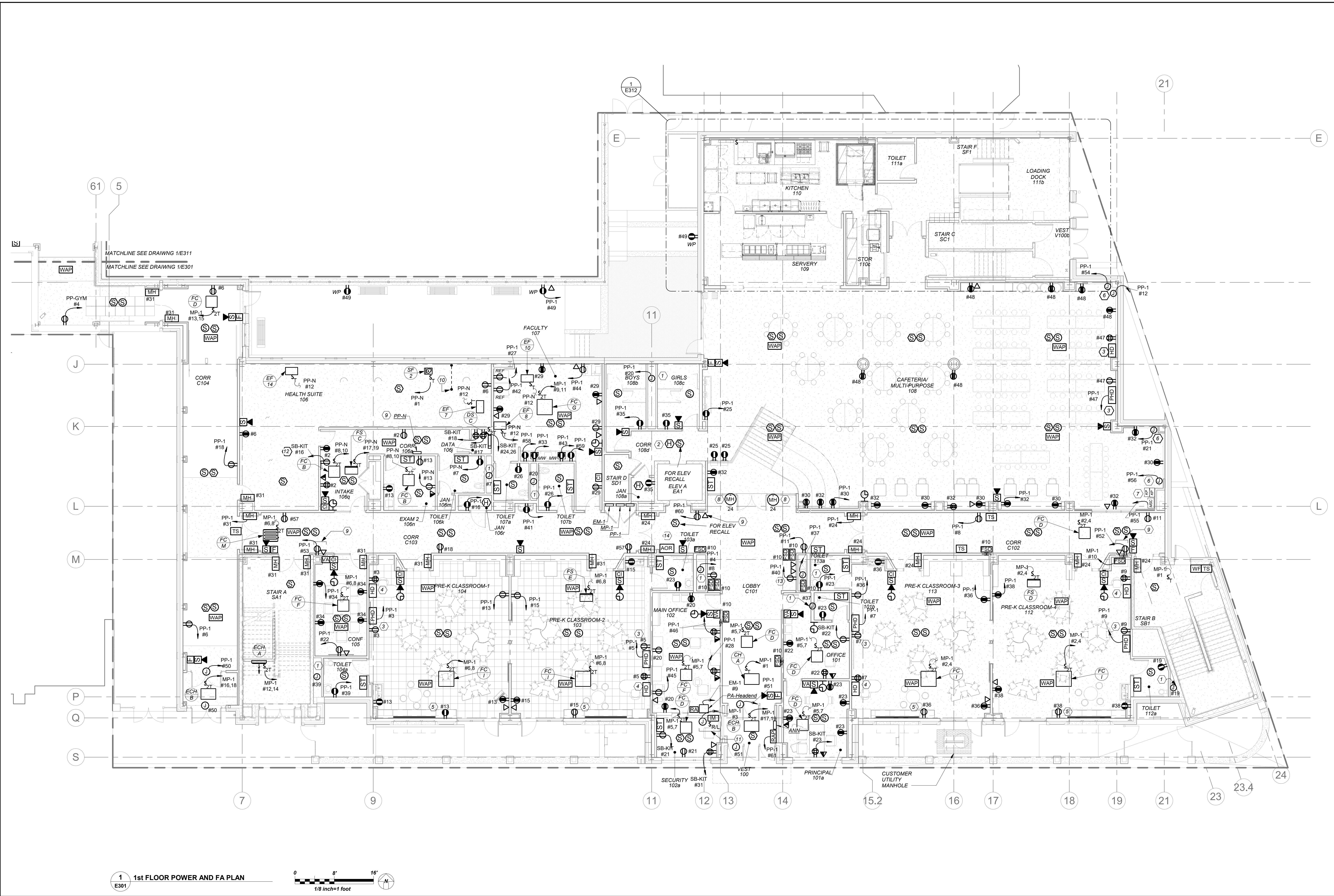
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WORK NOTES.

- ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF JUNCTION BOX TO SERVE THE POWER SUPPLY FOR AUTOMATIC FLUSH VALVE PRIOR TO THE START OF ANY WORK WITH PLUMBING CONTRACTOR. POWER SUPPLY FURNISHED BY PLUMBING CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL THE 120V CIRCUIT AND ALL LOW VOLTAGE WIRING ON THE LOAD SIDE OF POWER SUPPLY BY PLUMBING CONTRACTOR.
- NOT USED.
- PROVIDE DUPLEX RECEPTACLES 18" AFF CENTERED DIRECTLY BELOW "PHD". COORDINATE LOCATION OF SMART BOARD AND DUPLEX RECEPTACLE WITH OWNER/ARCHITECT BEFORE THE START OF ANY WORK.
- COORDINATE EXACT LOCATION AND MOUNTING HEIGHT FOR THE TEACHER'S DESK WITH OWNER/ARCHITECT BEFORE THE START OF ANY WORK.
- COUNTER HEIGHT RECEPTACLE. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT/OWNER BEFORE THE START OF ANY WORK.
- PROVIDE CEILING MOUNTED JUNCTION BOXES FOR MOTORIZED SHADES AT EACH WINDOW IN THE CAFETERIA. COORDINATE WITH SHADE MANUFACTURER FOR EXACT REQUIREMENTS. ELECTRICAL CONTRACTOR TO PROVIDE ALL INTER-CONNECTIONS BETWEEN THE MOTOR AND CONTROLLER. COORDINATE WITH ARCHITECT/OWNER BEFORE START OF ANY WORK. REFER TO DETAIL 2 ON DRAWING E705 FOR ADDITIONAL INFORMATION.
- LOCATION FOR MOTORIZED SHADES CONTROLLER AND KEY PAD. EXACT LOCATION TO BE CONFIRMED WITH ARCHITECT BEFORE START OF ANY WORK.
- ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL FLOOR MOUNTED MAGNETIC DOOR HOLDERS. COORDINATE ALL FLOOR TRENCHING AND EXACT LOCATIONS WITH ARCHITECT BEFORE START OF ANY WORK.
- THE DUPLEX RECEPTACLE AND DATA DROP IS FOR A WALL MOUNTED DISPLAY SCREEN. EXACT MOUNTING HEIGHT SHOULD BE COORDINATED WITH OWNER/ARCHITECT BEFORE THE START OF ANY WORK.
- PROVIDE 1" CONDUIT STUBBED UP IN FLOOR 4" ABOVE GRADE AND STUBBED UP 6" ABOVE CEILING. INSTALL PRIOR TO CONCRETE SLAB BEING POURED.
- PROVIDE POWER FOR FIRE SHUTTERS AND INTERCONNECT WITH RAISE AND LOWER SWITCH. FIRE SHUTTER SHALL BE INTERCONNECTED WITH FIRE ALARM VIA INTERFACE MODULE AS SHOWN. COORDINATE FINAL LOCATION WITH VENDOR AND CONSTRUCTION MANAGER.
- APPROX LOCATION FOR THE REFRIGERATOR. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT/OWNER BEFORE START OF ANY WORK.
- LOCATION FOR SOLAR POWER DISPLAY UNIT. PROVIDE (1) POWER AND (2) DATA DROPS. PROVIDE (1) CAT 6 CABLE FROM THIS LOCATION TO THE SOLAR CONTROL PANEL LOCATED IN THE MAIN ELECTRICAL ROOM IN BASEMENT LEVEL AND (1) CAT 6 CABLE FROM THIS LOCATION TO THE MDF LOCATED IN THE BASEMENT LEVEL. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT/OWNER BEFORE START OF ANY WORK.
- RESCUE ASSISTANCE SYSTEM. REFER TO RISER ON DRAWING E503

GENERAL NOTES:

- REFER TO ELECTRICAL POWER RISER ON DRAWING E501 FOR SCOPE OF WORK.
- REFER TO FIRE ALARM RISER DIAGRAM. REFER TO DRAWING E502.
- REFER TO DRAWINGS E600 SERIES FOR PANELBOARD SCHEDULES FOR ELECTRICAL CIRCUITING INFORMATION.
- REFER TO DRAWINGS E700 SERIES FOR DETAILS.
- ELECTRICAL CONTRACTOR TO COORDINATE EXACT MOUNTING HEIGHTS OF SMART BOARD POWER AND DATA WITH ARCHITECT/OWNER BEFORE START OF ANY WORK.
- ALL STANDBY RECEPTACLES FED FROM STANDBY PANELS SHALL BE AS NOTED FOR VISUAL IDENTIFICATION.
- ALL MAGNETIC HOLDERS TO BE FURNISHED BY GENERAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

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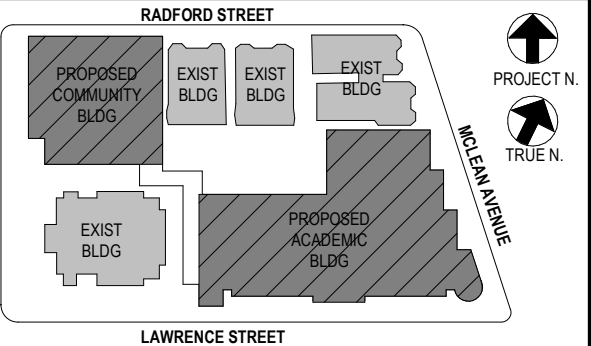
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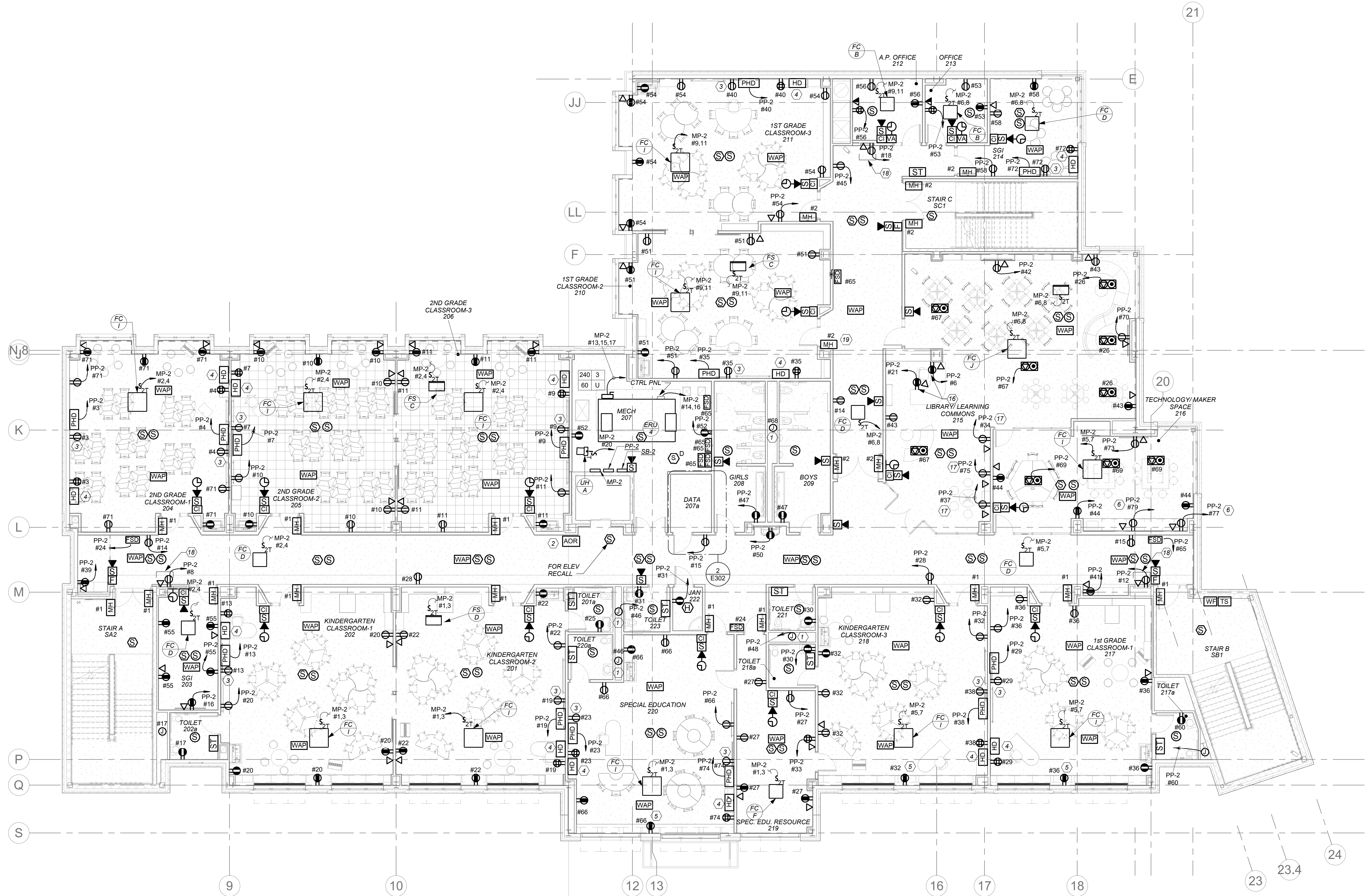
2nd FLOOR POWER AND FA PLAN

Job No. 2019-1026 Date 8/31/20

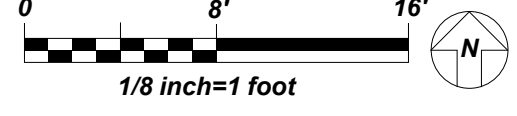
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E302



1 2nd FLOOR POWER AND FA PLAN
E302

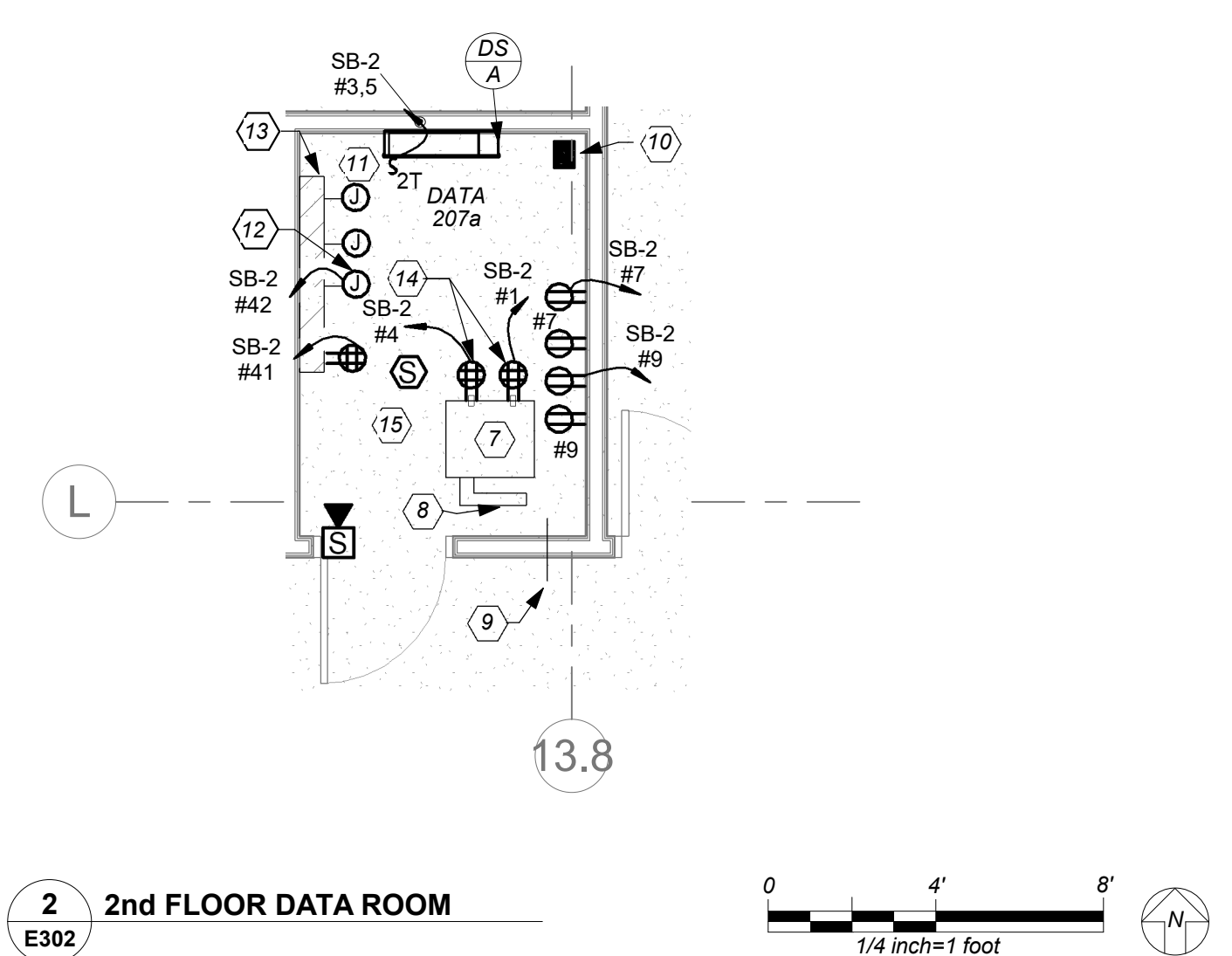


GENERAL NOTES:

- REFER TO ELECTRICAL POWER RISER ON DRAWING E501 FOR SCOPE OF WORK. FOR FIRE ALARM RISER DIAGRAM, REFER TO DRAWING E502.
- REFER TO DRAWINGS E600 SERIES FOR PANELBOARD SCHEDULES FOR BRANCH CIRCUITING INFORMATION.
- REFER TO DRAWINGS E700 SERIES FOR DETAILS.
- ELECTRICAL CONTRACTOR TO COORDINATE EXACT MOUNTING HEIGHTS OF SMART BOARD POWER AND DATA WITH ARCHITECT/OWNER BEFORE START OF ANY WORK.
- ALL STANDBY RECEPTACLES FED FROM STANDBY PANELS SHALL BE RED IN COLOR FOR VISUAL IDENTIFICATION.

WORK NOTES:

- ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF JUNCTION BOX TO SERVE THE POWER SUPPLY FOR AUTOMATIC FLUSH VALVE PRIOR TO THE START OF ANY WORK WITH PLUMBING CONTRACTOR. POWER SUPPLY FURNISHED BY PLUMBING CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL THE 120V CIRCUIT AND ALL LOW VOLTAGE WIRING ON THE LOAD SIDE OF POWER SUPPLY BY PLUMBING CONTRACTOR.
- RESCUE ASSISTANCE SYSTEM. REFER TO RISER ON DRAWING E503
- PROVIDE DUPLEX RECEPTACLES 18" AFF CENTERED DIRECTLY BELOW "PHD". COORDINATE LOCATION OF SMART BOARD AND DUPLEX RECEPTACLE WITH OWNER/ARCHITECT BEFORE THE START OF ANY WORK.
- COORDINATE EXACT LOCATION AND MOUNTING HEIGHT FOR THE TEACHER'S DESK WITH OWNER/ARCHITECT BEFORE THE START OF ANY WORK.
- COUNTER HEIGHT RECEPTACLE COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT/OWNER BEFORE THE START OF ANY WORK.
- CIRCUIT FOR LASER PRINTER. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT/OWNER BEFORE THE START OF ANY WORK.
- NEW 19" RACK. REFER TO SPECIFICATIONS SECTION FOR ADDITIONAL INFORMATION.
- PROVIDE LADDER 12" WIDE X 12" RUNG SPACING IN CLOSET CONNECTING TO RACK. REFER TO SPECIFICATIONS SECTION FOR ADDITIONAL INFORMATION.
- PROVIDE NEW 4" CONDUIT SLEEVE THROUGH WALL TO ABOVE CORRIDOR CEILING FOR NEW HORIZONTAL CABLING PATHWAY.
- FOR FLOOR PENETRATION PROVIDE ONE (1) STI EZ PATH #E-A-3054 FIRE STOP DEVICE MODULE. COORDINATE PENETRATION WITH STRUCTURAL ENGINEER BEFORE START OF ANY WORK.
- PROVIDE JUNCTION BOX FOR LOCK P/S REFER TO ITS LARSON DRAWINGS SE-300
- PROVIDE JUNCTION BOX FOR LDA INTERFACE REFER TO ITS LARSON DRAWINGS SE-300
- PROVIDE ONE (1) NEW 4'X8'X3/4" PLYWOOD PAINTED BLACK WITH FIRE RETARDANT PAINT.
- PROVIDE FOR CCTV DATA RACK. REFER TO ITS LARSON DRAWINGS SE-300.
- THIS CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE WIRING INTERCONNECTION FOR IT AND SECURITY FROM ALL DEVICES TO PATCH PANEL INCLUDING BUT NOT LIMITED TO DEVICE INSTALLATION, SUPPORT BRACKETS, JUNCTION BOXES, WIRING SUPPORTS, LABELING TAGGING ETC. REFER TO ITS LARSON DRAWINGS SERIES SE FOR ALL REQUIREMENTS INCLUDED IN THIS CONTRACTORS SCOPE.
- RECEPTACLE MOUNTED IN THE KNEE WALL OF THE CIRCULATION DESK. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT BEFORE START OF ANY WORK.
- LOCATION FOR THE STUDENTS DESK COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT BEFORE START OF ANY WORK.
- THE DUPLEX RECEPTACLE AND DATA DROP IS FOR A WALL MOUNTED DISPLAY SCREEN. EXACT MOUNTING HEIGHT SHOULD BE COORDINATED WITH OWNER/ARCHITECT BEFORE THE START OF ANY WORK.
- COORDINATE MAGNETIC DOOR HOLDER LOCATIONS WITH DOOR VENDOR BEFORE THE START OF ANY WORK.



2 2nd FLOOR DATA ROOM
E302

NEW COMMUNITY
SCHOOL AT THE
ST DENIS SITE

YONKERS JOINT SCHOOL
CONSTRUCTION BOARD
121 McLean Avenue
Yonkers, NY 10705



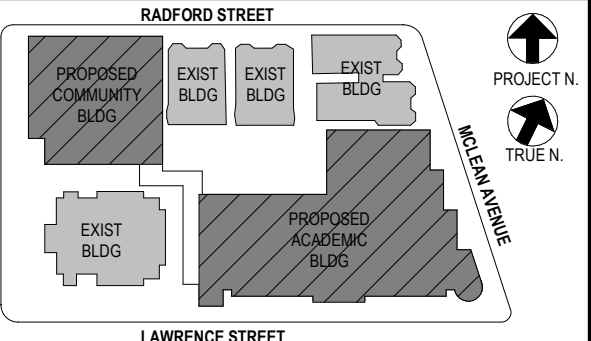
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285 MAIN STREET MOUNT KISCO, NEW YORK, 10549
P.914.666.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
66-23-00-01-0-346-001

CONSTRUCTION DOCUMENTS



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CONSULTING ENGINEERS
99 MARBLE AVE. PLEASANTVILLE, NY 10570
914.326.0099 GENERAL@BGA-ENG.COM WWW.BGA-ENG.COM



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No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

Sheet Title

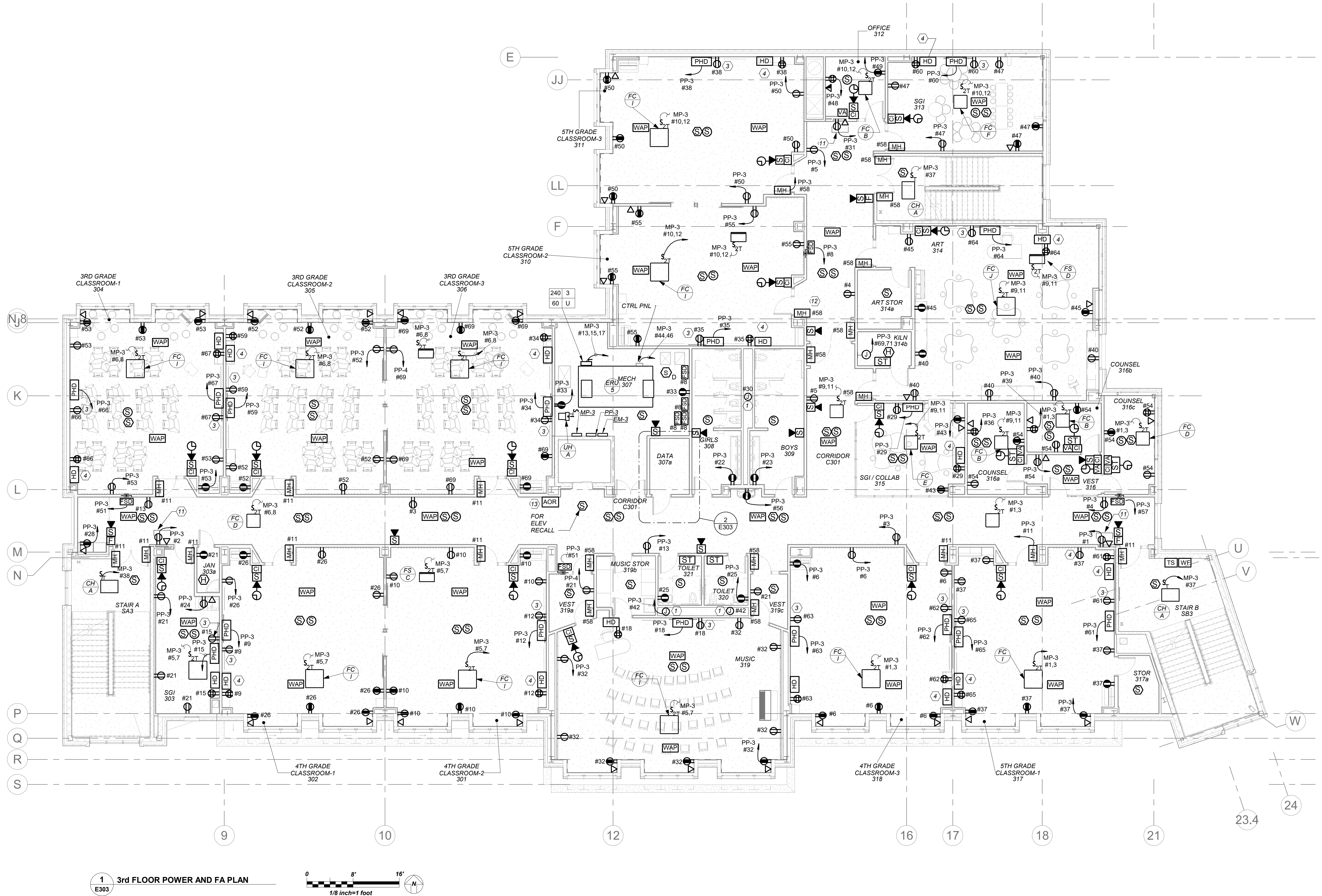
3rd FLOOR POWER AND FA PLAN

Job No. 2019-1026 Date 8/31/20

Scale AS NOTED Drawn / Checked BGA/BGA

Sheet Number

E303



GENERAL NOTES:

- REFER TO ELECTRICAL POWER RISER ON DRAWING E501 FOR SCOPE OF WORK. FOR FIRE ALARM RISER DIAGRAM, REFER TO DRAWING E502.
- REFER TO DRAWINGS E600 SERIES FOR PANELBOARD SCHEDULES FOR BRANCH CIRCUITING INFORMATION.
- REFER TO DRAWINGS E700 SERIES FOR DETAILS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF SMART BOARD POWER AND DATA WITH ARCHITECT/OWNER BEFORE START OF ANY WORK.
- ALL STANDBY RECEPTACLES FED FROM STANDBY PANELS SHALL BE RED IN COLOR FOR VISUAL IDENTIFICATION.

WORK NOTES:

- ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF JUNCTION BOX TO SERVE THE POWER SUPPLY FOR AUTOMATIC FLUSH VALVE PRIOR TO THE START OF ANY WORK WITH PLUMBING CONTRACTOR. POWER SUPPLY FURNISHED BY PLUMBING CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL THE 120V CIRCUIT AND ALL LOW VOLTAGE WIRING ON THE LOAD SIDE OF POWER SUPPLY BY PLUMBING CONTRACTOR.
- NOT USED.
- PROVIDE DUPLEX RECEPTACLES 18" AFF CENTERED DIRECTLY BELOW "PHD". COORDINATE LOCATION OF SMART BOARD AND DUPLEX RECEPTACLE WITH OWNER/ARCHITECT BEFORE THE START OF ANY WORK.
- COORDINATE EXACT LOCATION AND MOUNTING HEIGHT FOR THE TEACHER'S DESK "HD" WITH OWNER/ARCHITECT BEFORE THE START OF ANY WORK.
- COUNTER HEIGHT RECEPTACLE. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT/OWNER BEFORE THE START OF ANY WORK.
- NEW 19" RACK. REFER TO SPECIFICATIONS SECTION FOR ADDITIONAL INFORMATION. RESERVE 2U RACK SPACE FOR SECURITY PATCH PANEL.
- PROVIDE LADDER 12" WIDE X 12" RUNG SPACING IN CLOSET CONNECTING TO RACK. REFER TO SPECIFICATIONS SECTION FOR ADDITIONAL INFORMATION.
- PROVIDE NEW 4" CONDUIT SLEEVE THROUGH WALL TO ABOVE CORRIDOR CEILING FOR NEW HORIZONTAL CABLING PATHWAY.
- FOR FLOOR PENETRATION PROVIDE ONE (1) STI-EZ PATH #F-A-3054 FIRE STOP DEVICE MODULE. COORDINATE PENETRATION WITH STRUCTURAL ENGINEER BEFORE START OF ANY WORK.
- THIS CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE WIRING INTERCONNECTION FOR IT AND SECURITY FROM ALL DEVICES TO PATCH PANEL INCLUDING BUT NOT LIMITED TO DEVICE INSTALLATION, SUPPORT BRACKETS, JUNCTION BOXES, WIRING SUPPORTS, LABELING TAGGING ETC. REFER TO ITS LARSON DRAWINGS SERIES 'SE' FOR ALL REQUIREMENTS INCLUDED IN THIS CONTRACTORS SCOPE.
- THE DUPLEX RECEPTACLE AND DATA DROP IS FOR A WALL MOUNTED DISPLAY SCREEN. EXACT MOUNTING HEIGHT SHOULD BE COORDINATED WITH OWNER/ARCHITECT BEFORE THE START OF ANY WORK.
- COORDINATE MAGNETIC DOOR HOLDER LOCATIONS WITH DOOR VENDOR BEFORE THE START OF ANY WORK.
- RESCUE ASSISTANCE SYSTEM. REFER TO RISER ON DRAWING E503

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

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CONSTRUCTION BOARD
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Yonkers, NY 10705



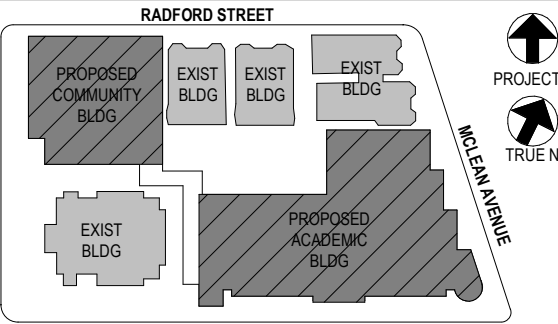
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NY SED PROJECT CONTROL NO.
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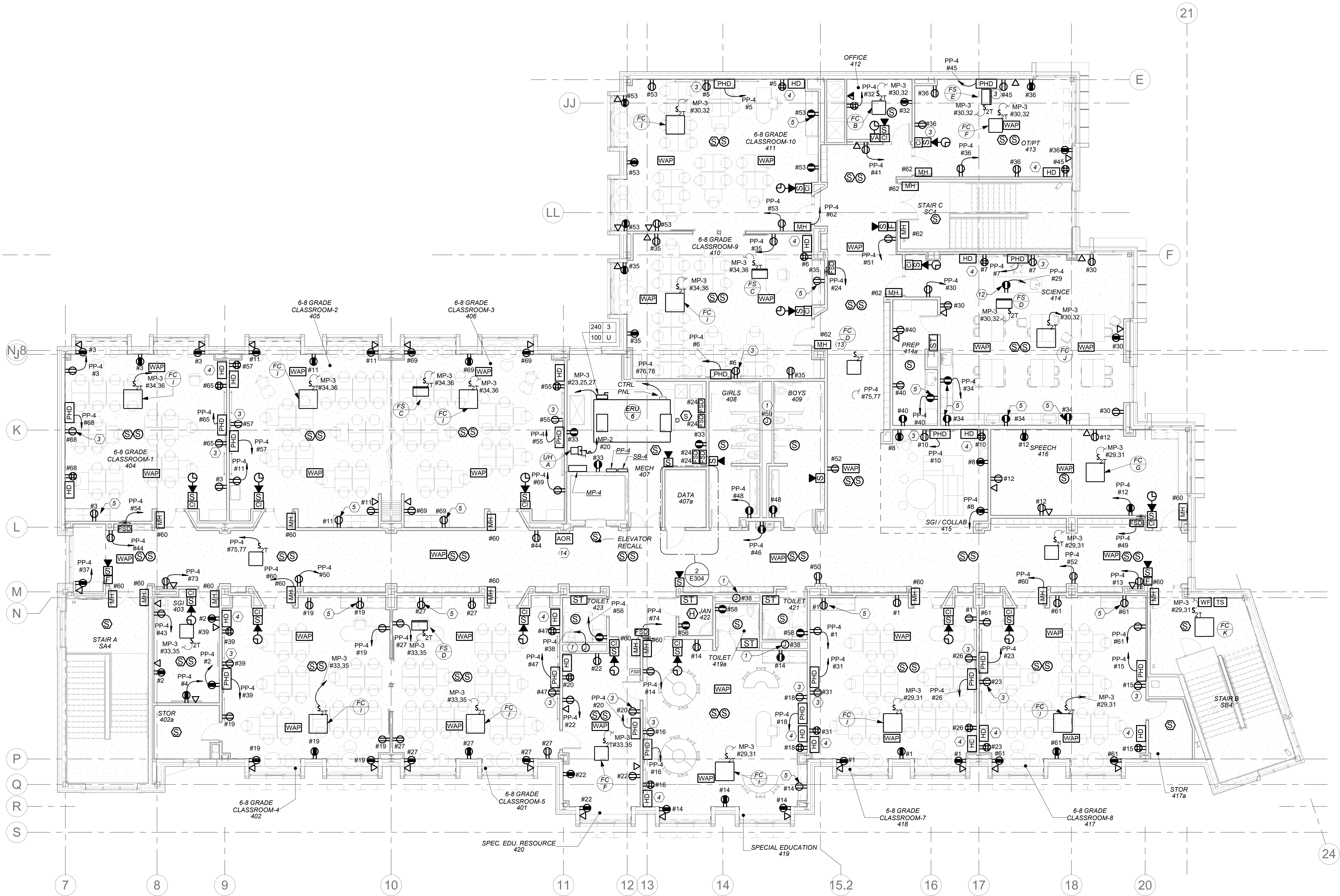
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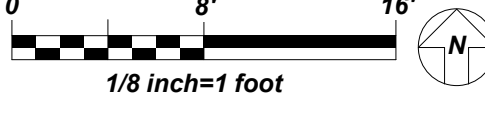
Sheet Title
4th FLOOR POWER AND FA PLAN

Job No. 2019-1026 Date 8/31/20
Scale AS NOTED Drawn / Checked BGA/ BGA
Sheet Number

E304



1 4th FLOOR POWER AND FA PLAN
E304



GENERAL NOTES:

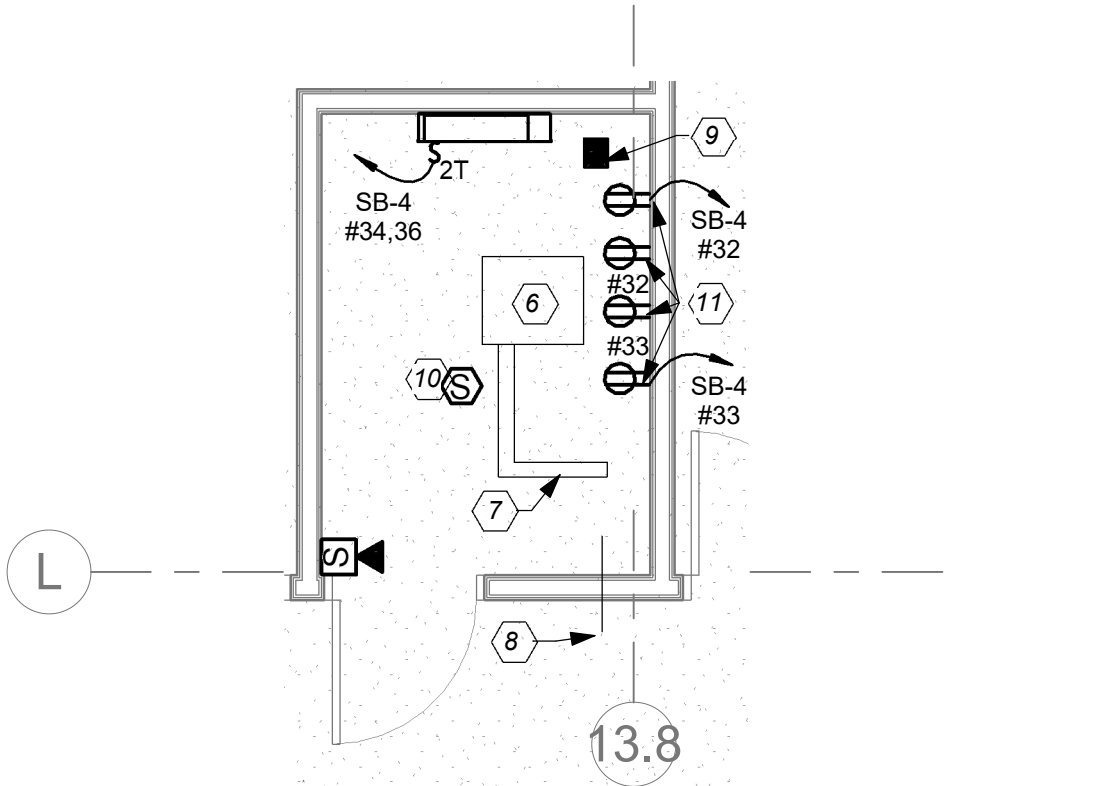
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- REFER TO DRAWINGS E600 SERIES FOR PANELBOARD SCHEDULES FOR BRANCH CIRCUITING INFORMATION.
- REFER TO DRAWINGS E700 SERIES FOR DETAILS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHTS OF SMART BOARD POWER AND DATA WITH ARCHITECT/OWNER BEFORE START OF ANY WORK.

WORK NOTES:

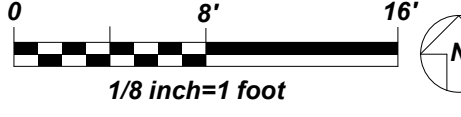
- ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF JUNCTION BOX TO SERVE THE POWER SUPPLY FOR AUTOMATIC FLUSH VALVE PRIOR TO THE START OF ANY WORK WITH PLUMBING CONTRACTOR. POWER SUPPLY FURNISHED BY PLUMBING CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL THE 120V CIRCUIT AND ALL LOW VOLTAGE WIRING ON THE LOAD SIDE OF POWER SUPPLY BY PLUMBING CONTRACTOR.
- NOT USED.
- PROVIDE DUPLEX RECEPTACLES 18" AFF DIRECTLY CENTERED BELOW "PHD". COORDINATE LOCATION OF SMART BOARD AND DUPLEX RECEPTACLE WITH OWNER/ARCHITECT BEFORE THE START OF ANY WORK.
- COORDINATE EXACT LOCATION AND MOUNTING HEIGHT FOR THE TEACHER'S DESK WITH OWNER/ARCHITECT BEFORE THE START OF ANY WORK.
- COUNTER HEIGHT RECEPTACLE. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT/OWNER BEFORE THE START OF ANY WORK.
- NEW 19" RACK. REFER TO SPECIFICATIONS SECTION FOR ADDITIONAL INFORMATION.
- PROVIDE LADDER 12" WIDE X12" RUNG SPACING IN CLOSET CONNECTING TO RACK. REFER TO SPECIFICATIONS SECTION FOR ADDITIONAL INFORMATION.
- PROVIDE NEW 4" CONDUIT SLEEVE THROUGH WALL TO ABOVE CORRIDOR CEILING FOR NEW HORIZONTAL CABLING PATHWAY.
- FOR FLOOR PENETRATION PROVIDE ONE (1) STI EZ PATH #F-A-3054 FIRE STOP DEVICE MODULE. COORDINATE PENETRATION WITH STRUCTURAL ENGINEER BEFORE START OF ANY WORK.
- THIS CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE WIRING INTERCONNECTION FOR IT AND DEVICES TO PATCH PANEL INCLUDING BUT NOT LIMITED TO DEVICE INSTALLATION, SUPPORT BRACKETS, JUNCTION BOXES, WIRING SUPPORTS, LABELING TAGGING ETC. REFER TO ITS LARSON DRAWINGS SERIES 'SE' FOR ALL REQUIREMENTS INCLUDED IN THIS CONTRACTORS SCOPE.

WORK NOTES:

- EXACT MOUNTING LOCATION OF OUTLETS SHALL BE COORDINATED WITH OWNERS IT DEPARTMENT BEFORE THE START OF ANY WORK.
- RECEPTACLE SHALL BE MOUNTED ON THE FACE OF THE SCIENCE TABLE. COORDINATE WITH GENERAL CONTRACTOR/ARCHITECT BEFORE THE START OF ANY WORK.
- COORDINATE MAGNETIC DOOR HOLDER LOCATIONS WITH DOOR VENDOR BEFORE THE START OF ANY WORK.
- RESCUE ASSISTANCE SYSTEM. REFER TO RISER ON DRAWING E503



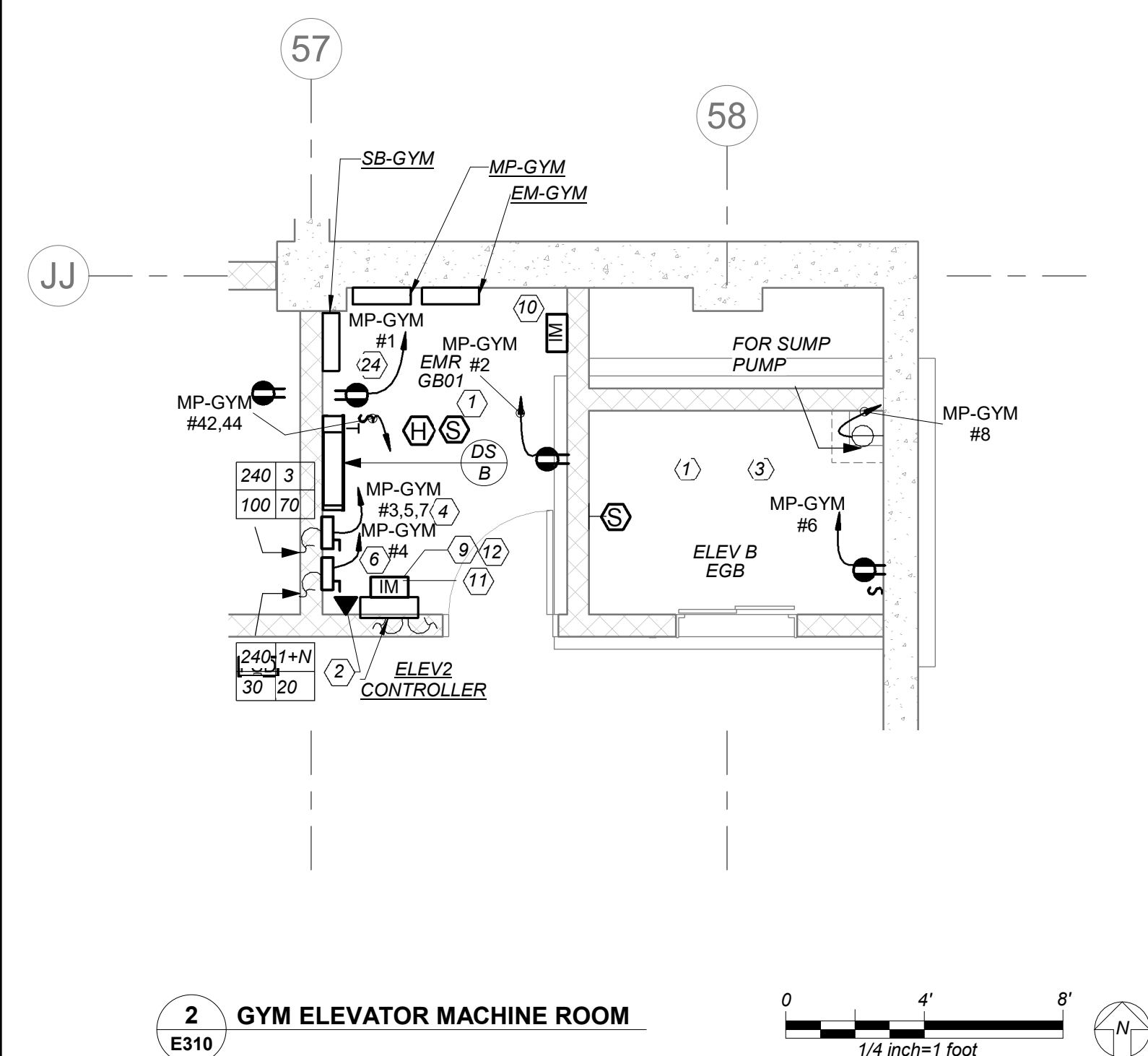
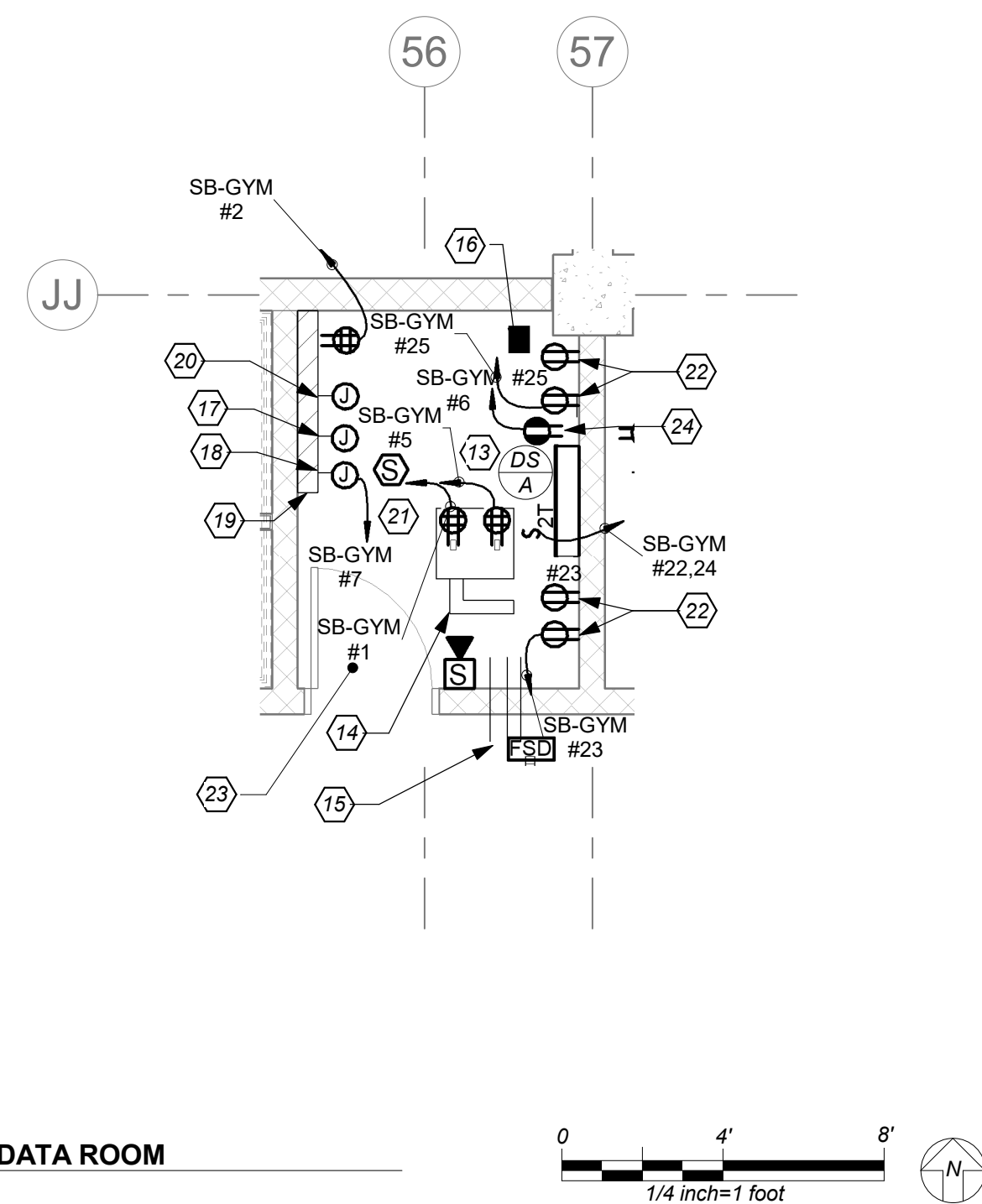
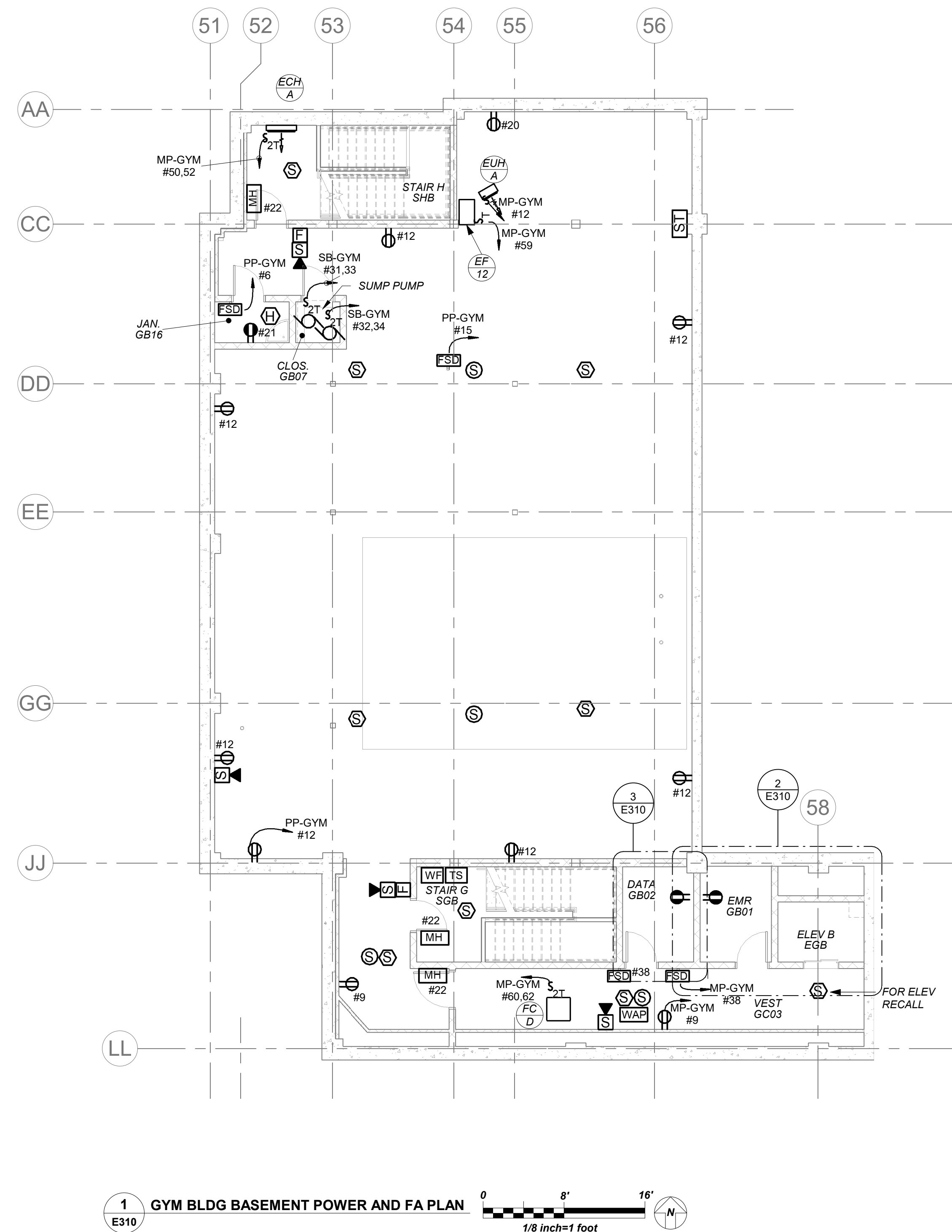
2 4th FLOOR DATA ROOM
E304



1. REFER TO ELECTRICAL ONE-LINE DIAGRAMS ON DRAWING E500 SERIES, FOR SCOPE OF WORK.
2. REFER TO PANELBOARD SCHEDULE ON DRAWING E600 SERIES FOR BRANCH CIRCUITING INFORMATION.
3. REFER TO DRAWING E700 SERIES FOR DETAILS.

- 1 BEFORE THE START OF ANYWORK EC, GC AND ELEVATOR VENDOR/TECH SHALL COORDINATE THE EXACT LAYOUT OF ELEVATOR EQUIPMENT AND DEVICES WITHIN EMR. ELEVATOR SHAFT TOP AND PIT. THIS INCLUDED AND NOT LIMITED TO RECEPTACLES, SWITCHES, LIGHTS, DISC SWITCHES, ETC.
- 2 PROVIDE DIRECT OUTSIDE PHONE LINE FROM ELEVATOR TO DATA ROOM.
- 3 COORDINATE WITH ELEVATOR VENDOR FOR ALL ELEVATOR REQUIREMENTS INCLUDING ALL POWER AND CONTROL WIRING FOR A COMPLETE INSTALLATION. PROVIDE ALL POWER AND CONTROL WIRING REQUIRED BETWEEN ELEVATOR AND ELEVATOR MACHINE ROOM.
- 4 DISCONNECT SWITCH TO FEED ELEVATOR CAR. PROVIDE DRY CONTACT WITH 2#18 - 3/4" FROM DISCONNECT SWITCH TO ELEVATOR CONTROLLER.
- 5 NOT USED.
- 6 DISCONNECT SWITCH FOR ELEVATOR CAR LIGHT. PROVIDE DRY CONTACT WITH 2#18 - 3/4" FROM DISCONNECT SWITCH TO ELEVATOR CONTROLLER.
- 7 NOT USED.
- 8 NOT USED.
- 9 PROVIDE FIRE ALARM CONTROL RELAY/INTERFACE MONITORING MODULE. ONE FOR FIRE ALARM RECALL/ALTERNATE RECALL AND ONE FOR FIRE HAZARD TAIL. MUST BE NORMALLY CLOSED AND CONNECTED TO SET OF DRY CONTACTS WITH CONTROLLER.
- 10 PROVIDE FIRE ALARM CONTROL RELAY/INTERFACE MONITORING MODULE FOR DISCONNECT TO MONITOR.
- 11 ELECTRICAL CONTRACTOR SHALL PROVIDE AND CONTINUE FEEDER & CONDUIT CONNECTION FROM MAINLINE POWER DISCONNECT TO ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR VENDOR AND ARCHITECT BEFORE START OF WORK.
- 12 ELECTRICAL CONTRACTOR SHALL PROVIDE AND CONTINUE FEEDER & CONDUIT CONNECTION FROM CAB DISCONNECT TO ELEVATOR CONTROLLER. COORDINATE WITH ELEVATOR VENDOR AND ARCHITECT BEFORE START OF WORK.

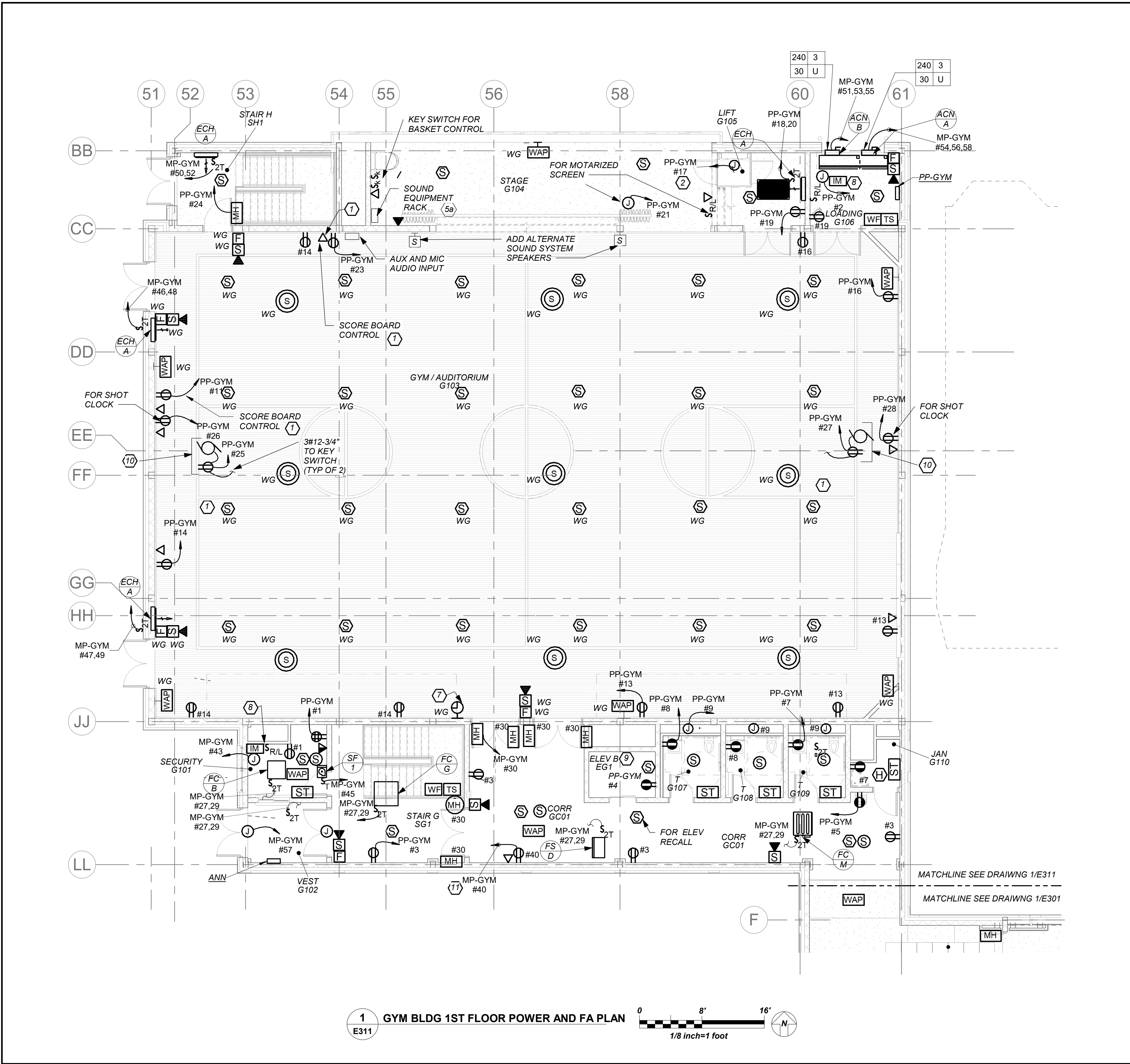
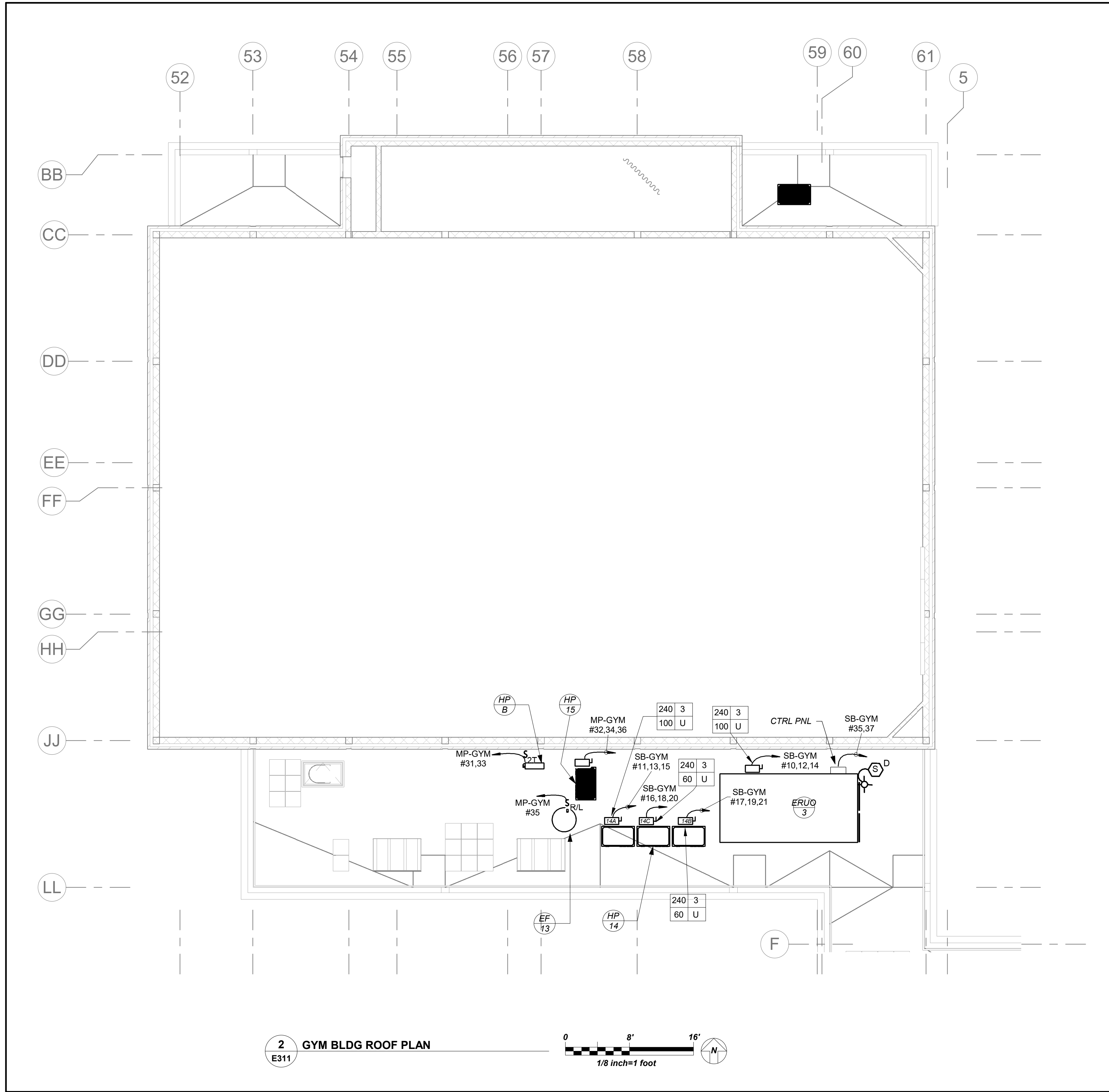
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| 13 | PROVIDE NEW 1" RACK REFER TO SPECIFICATIONS SECTION FOR ADDITIONAL INFORMATION. |
| 14 | PROVIDE LADDER 12" WIDE X 12" RUNG SPACING INCLOSEST CONNECTING TO RACK. REFER TO SPECIFICATIONS SECTION FOR ADDITIONAL INFORMATION. |
| 15 | PROVIDE NEW (3) 4" CONDUIT SLEEVE THROUGH WALL TO ABOVE CORRIDOR CEILING FOR NEW HORIZONTAL CABLING PATHWAY. |
| 16 | FOR FLOOR PENETRATION PROVIDE ONE (1) STI EZ PATH #F-A-3054 FIRE STOP DEVICE MODULE. COORDINATE PENETRATION WITH STRUCTURAL ENGINEER BEFORE START OF ANY WORK. |
| 17 | PROVIDE JUNCTION BOX FOR LOCK P/S REFER TO ITG LARSON DRAWINGS SE-300 |
| 18 | PROVIDE JUNCTION BOX FOR ILDA P/S REFER TO ITG LARSON DRAWINGS SE-300 |
| 19 | PROVIDE ONE (1) NEW 4X8X3/4" PLYWOOD PAINTED BLACK WITH FIRE RETARDANT PAINT. |
| 20 | PROVIDE JUNCTION BOX FOR BURGLAR ALARM INTERFACE REFER TO ITG LARSON BEFORE START OF ANYWORK. |
| 21 | PROVIDE FOR CCTV ON DATA RACK. REFER TO ITG LARSON DRAWINGS SE-300 |
| 22 | THESE RECEPTABLES ARE FOR IT EQUIPMENT. COORDINATE WIRING/KNICKERS IT DEPT FOR EXACT MOUNTING LOCATIONS BEFORE START OF ANY WORK. |
| 23 | THIS CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE WIRING CONNECTIONS FOR IT AND SUPPORT FROM ALL DEVICES TO PATCH PANEL INCLUDING BUT NOT LIMITED TO DEVICE INSTALLATION, SECURITY BRACKETS, JUNCTION BOXES, WIRING SUPPORTS, LABELING TAGGING ETC. REFER TO ITS LARSON DRAWINGS FOR ALL REQUIREMENTS INCLUDING IN THIS CONTRACTORS SCOPE |
| 24 | PROVIDE CEILING MOUNTED GFI OUTLET FOR CONDENSATE PUMP COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR BEFORE INSTALLING THE OUTLET. |



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E310

E310



GENERAL NOTES:

- REFER TO ELECTRICAL ONE LINE DIAGRAMS ON DRAWING E500 SERIES, FOR SCOPE OF WORK.
- REFER TO PANELBOARD SCHEDULE ON DRAWING E600 SERIES FOR BRANCH CIRCUITING INFORMATION.
- REFER TO DRAWING E700 SERIES FOR DETAILS.

WORK NOTES:

- COORDINATE EXACT MOUNTING HEIGHT LOCATION FOR SHOT CLOCK AND SCOREBOARD WITH ARCHITECT BEFORE START OF ANYWORK
- PROVIDE 20AMP DEDICATE CIRCUIT FOR THE STAGE LIFT. COORDINATE ALL WORK WITH GENERAL CONTRTACTOR BEFORE START OF ANY WORK
- NOT USED
- PROVIDE DEDICATED CIRCUIT TO THE MOTARIZED SCREEN. EC TO COORDINATE ALL WORK WITH GENERAL CONTRACTOR.
- SOUND SYSTEM FOR GYM/AUDITORIUM : ALL WORK ASSOCIATED WITH SOUND SYSTEM TO BE **ADD ALTERNATE**.
 - WALL MOUNTED EQUIPMENT. COORDINATE EXACT LOCATION WITH ARCHITECT/ GENERAL CONTRACTOR BEFORE STAR OF ANY WORK.
 - LOCATION FOR THE WALL MOUNT LOUD SPEAKERS MOUNTED 16" AFF COORDINATE EXACT LOCATION WITH ARCHITECT/ GENERAL CONTRACTOR BEFORE STAR OF ANY WORK.
 - LOCATION OF AUXILIARY AND MIC AUDIO INPUT PLATE MOUNTED 18" AFF. COORDINATE EXACT LOCATION WITH ARCHITECT/ GENERAL CONTRACTOR BEFORE STAR OF ANY WORK.
- WAP's SHALL BE MOUNTED 15" AFF. HOWEVER COORDINATE EXACT MOUNTING HEIGHT WITH OWNER PRIOR TO START OF ANY WORK.
- PROVIDE NEW 16" WALL CLOCK WITH WIRE GUARD.
- PROVIDE POWER FOR FIRE SHUTTERS AND INTERCONNECT WITH RAISE AND LOWER SWITCH. FIRE SHUTTER SHALL BE INTERCONNECTED WITH FIRE ALARM VIA INTERFACE MODULE AS SHOWN. COORDINATE FINAL LOCATION WITH VENDOR AND CONSTRUCTION MANAGER.
- PROVIDE RECEPTACLE AND SMOKE DETECTOR AT TOP OF SHAFT. COORDINATE EXACT MOUNTING LOCATION WITH ELEVATOR VENDOR BEFORE START OF ANY WORK.
- COORDINATE EXACT MOUNTING LOCATION OF OUTLET AND KEY SWITCH FOR WINCH WITH EQUIPMENT VENDOR AND GC BEFORE START OF ANY WORK
- THE DUPLEX RECEPTACLE AND DATA DROP IS FOR A WALL MOUNTED DISPLAY SCREEN. EXACT MOUNTING HEIGHT SHOULD BE COORDINATED WITH OWNER/ARCHITECT BEFORE THE START OF ANY WORK.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

NEW COMMUNITY SCHOOL AT THE ST DENIS SITE

YONKERS JOINT SCHOOL DISTRICT
121 McLean Avenue
Yonkers, NY 10705

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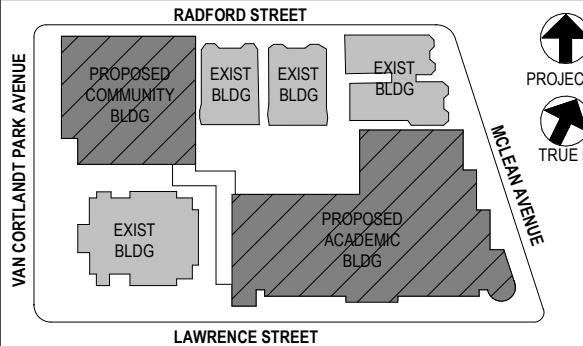
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Sheet Title

COMM. WING 1ST FLOOR POWER AND FA PLAN

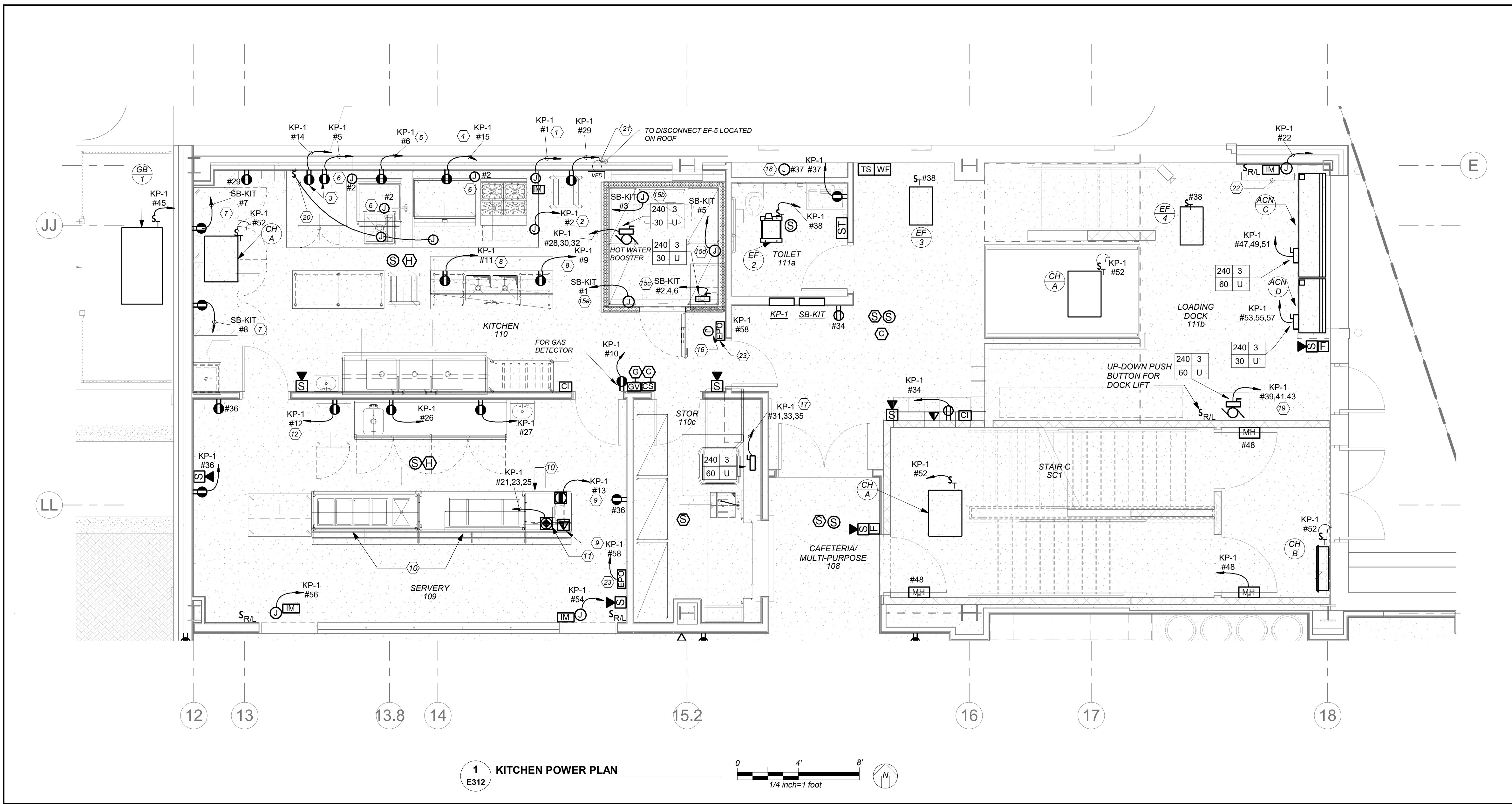
Job No. 2019-1026 Date 8/31/20

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Sheet Number

E311

BEFORE FABRICATION THIS CONTRACTOR SHALL
VERIFY ALL MEASUREMENTS AND CONDITIONS ON
JOB AND COORDINATE HIS WORK WITH THE WORK
OF ALL OTHER CONTRACTORS



WORK NOTES:

- 1 PROVIDE JUNCTION BOX FOR FIRE SUPPRESSION ANSUL SYSTEM. EXTEND CONDUIT AND WIRING FROM ANSUL SYSTEM SOLENOID GAS SHUT OFF VALVE, SHUNT TRIP BREAKER IN PANEL AND BUILDING FIRE ALARM SYSTEM. INTERWIRE WITH EXHAUST AND SUPPLY FAN MAGNETIC STARTERS AS REQUIRED. REFER TO ELECTRICAL REMARKS LEGEND ON KITCHEN DRAWINGS KA-3 FOR ADDITIONAL INFORMATION.
- 2 PROVIDE 2812x1812-3/4" C FROM EXHAUST HOOD AUTO START CONTROL TO MAGNETIC STARTERS AND EXHAUST AND SUPPLY FANS. PROVIDE TWO WIRES EACH TO THERMOSTATES AND TWO WIRES TO FIRE SUPPRESSION SYSTEM. REFER TO WIRING DIAGRAM ON KITCHEN EQUIPMENT DRAWINGS KA-3.
- 3 2 DEDICATED CIRCUITS FOR CONVENTION OVEN TOP AND BOTTOM. COORDINATE IN FIELD FOR MOUNTING LOCATIONS.
- 4 CIRCUIT FOR COUNTER TOP GRIDDLE. COORDINATE IN FIELD FOR MOUNTING LOCATIONS.
- 5 CIRCUIT FOR BRAISING PAN. COORDINATE IN FIELD FOR MOUNTING LOCATIONS.
- 6 TOGGLE SWITCH FOR HOOD FAN CONTROL AND CONNECTION TO DUCT TEMPERATURE SENSOR WITH 2812x1812G - 3/4" C. TOGGLE SWITCH FURNISHED BY OTHERS. EC TO INSTALL AND WIRE TO HEAT SENSORS. SENSORS FURNISHED AND INSTALLED BY OTHERS. REFER TO KITCHEN EQUIPMENT DRAWING KA SERIES FOR ADDITIONAL INFORMATION.
- 7 CIRCUIT FOR NEW REACH-IN REFRIGERATOR. COORDINATE IN FIELD FOR MOUNTING LOCATIONS.
- 8 PROVIDE 6" STUB-UP FROM FLOOR. INTER WIRED TO CONVENIENCE RECEPTACLE LOCATED BELOW THE TABLE. COORDINATE WITH KITCHEN VENDOR FOR EXACT LOCATION OF STUB UPS. REFER TO KITCHEN DRAWINGS KA-3 FOR ADDITIONAL INFORMATION.
- 9 CIRCUIT FOR POS TERMINAL. PROVIDE FLOOR MOUNTED DOG HOUSE POWER RECEPTACLE AND DATA WITH CAT 6 CABLE TO NEAREST IDF/MDF CLOSET. INSTALLATION SHALL MAINTAIN 5.75' MAX HEIGHT ABOVE SLAB TO ALLOW PROPER CLEARANCE OF UNDERSIDE OF SERVER TABLE. PROVIDE A GFI CIRCUIT BREAKER.
- 10 REFER TO DRAWINGS KA SERIES FOR DAISY CHAIN INTERCONNECTION FOR SERVER TABLES.
- 11 PROVIDE FLOOR MOUNTED DOGHOUSE FOR MAIN POWER FOR SERVER TABLE POWER. HEIGHT OF RECEPTACLE TOP INSTALLATION SHALL MAINTAIN 5.75' MAX HEIGHT ABOVE SLAB TO ALLOW PAPER CLEARANCE OF UNDERSIDE OF SERVER TABLE. PROVIDE A GFI CIRCUIT BREAKER.
- 12 CIRCUIT FOR HOT CABINET. REFER TO DETAILS ON KITCHEN DRAWINGS KA SERIES FOR ADDITIONAL INFORMATION.
- 13 NOT USED.
- 14 NOT USED.
- 15 PROVIDE THE FOLLOWING BRANCH CIRCUIT FOR WALK-IN COOLER PER FOLLOWING:
 - 15a CIRCUIT FOR NEW WALK-IN COOLER. VAPOR TIGHT LIGHT FIXTURE SHALL BE FURNISHED WITH FREEZER AND EC SHALL INSTALL AND WIRE. ACCOMMODATE ALL REQUIREMENTS FOR EXPANDING FOAM SEALANT INSIDE CONDUIT AT PANEL PENETRATIONS TO AVOID CONDENSATE ACCUMULATION INSIDE LIGHT FIXTURES. REFER TO DETAILS ON KITCHEN DRAWINGS KA SERIES FOR ADDITIONAL INFORMATION.
 - 15b CIRCUIT FOR NEW WALK-IN COOLER EVAPORATOR COIL. COORDINATE IN FIELD FOR MOUNTING LOCATION. E.C SHALL INSTALL 5 WIRE CONTROL WIRING FROM DEFROST TIME CLOCK TO DEFROST HEATER ON COOLER EVAPORATOR COIL.
 - 15c CIRCUIT FOR NEW CONDENSING UNITS FOR WALK-IN COOLER. PROVIDE NEMA 4X DISCONNECT SWITCH COORDINATE IN FIELD FOR EXACT MOUNTING LOCATION.
 - 15d E.C TO CONNECT ELECTRIC HEAT WRAP TAPE ON FREEZER EVAPORATOR COIL DRAIN LINE FURNISHED BY OTHERS.
- 16 PROVIDE RECESSED JUNCTION BOX FOR THE FIRE SUPPRESSION MANUAL STATION FURNISHED BY OTHER. PROVIDE 1/2" CONDUIT TO JUNCTION REFERENCED IN NOTE 1 FOR FIRE SUPPRESSION ANSUL SYSTEM. REFER TO KA-3 DRAWING FOR ADDITIONAL INFORMATION.
- 17 CIRCUIT FOR THE DISHWASHER. PROVIDE 60AMP-3P NEMA 4X DISCONNECT SWITCH ON THE UNIT. REFER TO PANEL SCHEDULE FOR CIRCUIT BREAKER AND WIRING INFORMATION.
- 18 ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF JUNCTION BOX TO SERVE THE POWER SUPPLY FOR AUTO FAUCET AND AUTOMATIC FLUSH VALVE PRIOR TO THE START IF ANYWORK WITH PLUMBING CONTRACTOR. POWER SUPPLY FURNISHED BY PLUMBING CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL THE 120V CIRCUIT AND ALL LOW VOLTAGE WIRING ON THE LOAD SIDE OF POWER SUPPLY BY PLUMBING CONTRACTOR.
- 19 CIRCUIT FOR THE DOCK LIFT. EC TO PROVIDE (11)°C AND (11)°C UNDER SLAB TO PIT LOCATION OF THE DOCK LIFT. REFER TO MANUFACTURER SPECIFICATIONS AND COORDINATE ALL WORK WITH ARCHITECT BEFORE START OF ANY WORK.
- 20 FOR HOOD LIGHTS PROVIDE LIGHT SWITCH AS SHOWN MOUNTED 48" AFF. CONNECT AHEAD OF LOCAL LIGHT SWITCH. INTERCONNECT HOOD LIGHT AND SHALL BE CONTROLLED BY THIS SWITCH. REFER TO KA DRAWINGS FOR ADDITIONAL INFORMATION.
- 21 VFD TO SERVE UNIT EF-5 LOCATED ON ROOF. LOCATION OF VFD IS FOR REFERENCE ONLY. COORDINATE EXACT LOCATION BEFORE THE START OF ANY WORK.
- 22 PROVIDE POWER FOR FIRE SHUTTERS AND INTERCONNECT WITH RAISE AND LOWER SWITCH. FIRE SHUTTER SHALL BE INTERCONNECTED WITH FIRE ALARM VIA INTERFACE MODULE AS SHOWN. COORDINATE FINAL LOCATION WITH VENDOR AND CONSTRUCTION MANAGER.
- 23 PROVIDE EPO SWITCH. CONTRACTOR TO TIE EPO TO ALL EQUIPMENT UNDERNEATH EXHAUST HOOD VIA SHUT TRIP.

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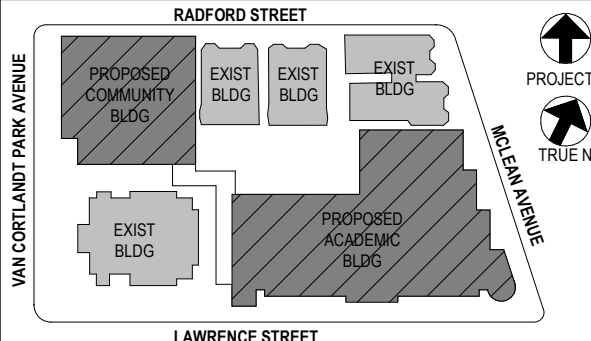
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No.	Date	Issue

Sheet Title

KITCHEN POWER PLAN

Job No. 2019-1026 Date 04/30/21

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Sheet Number

E312

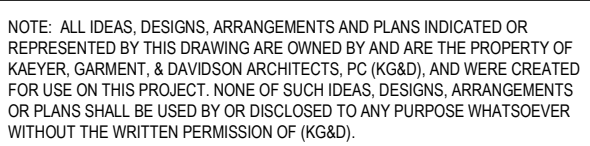
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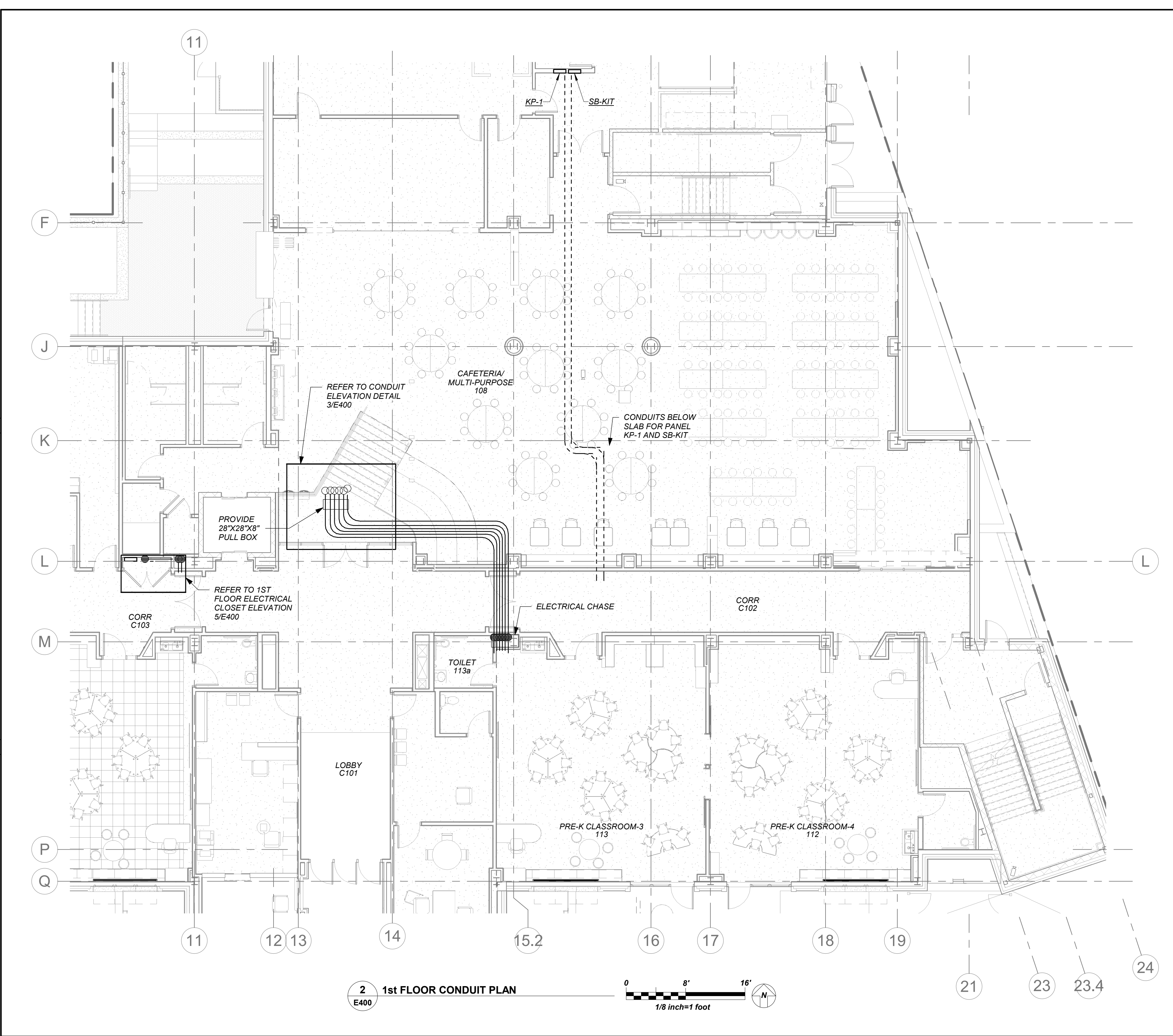
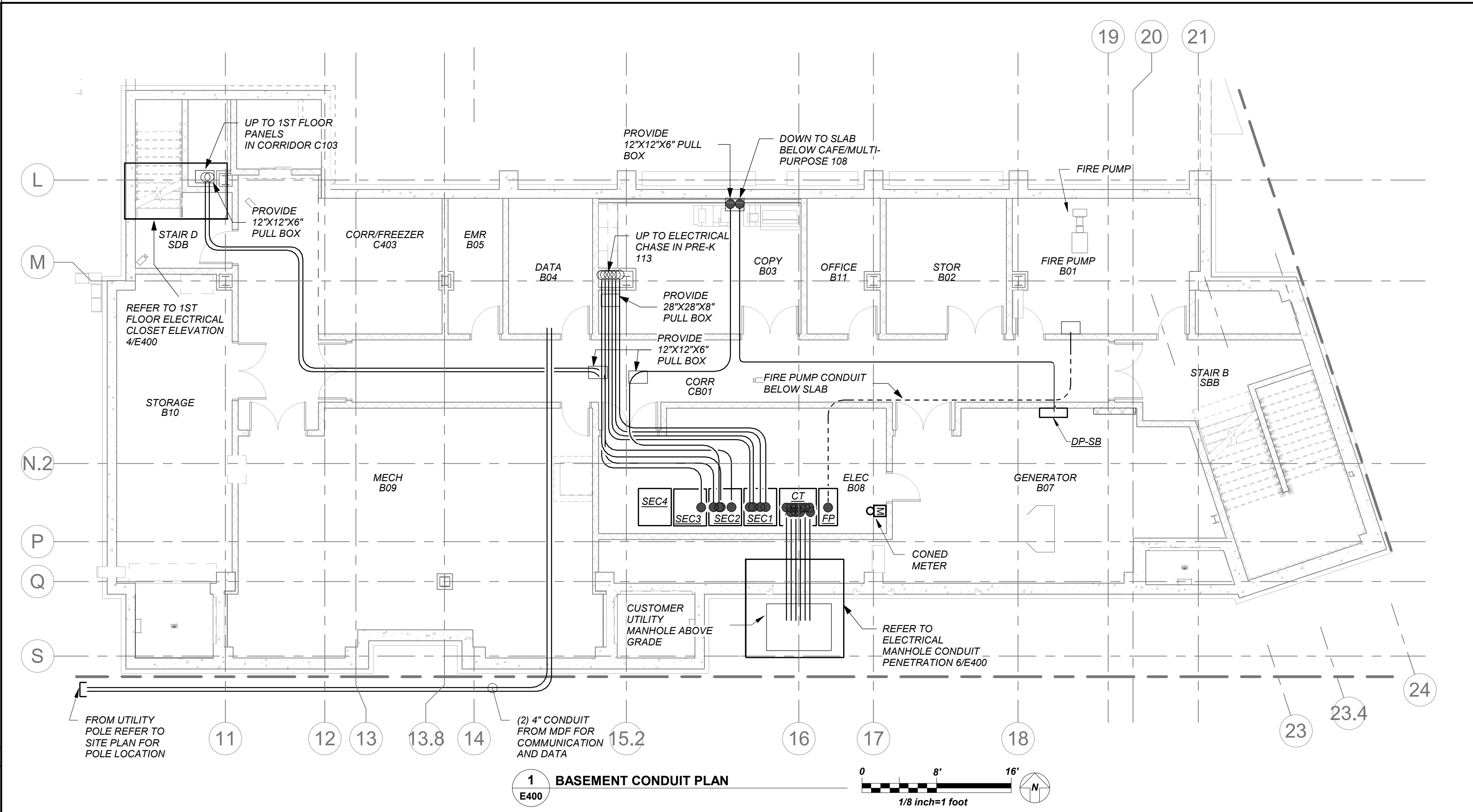
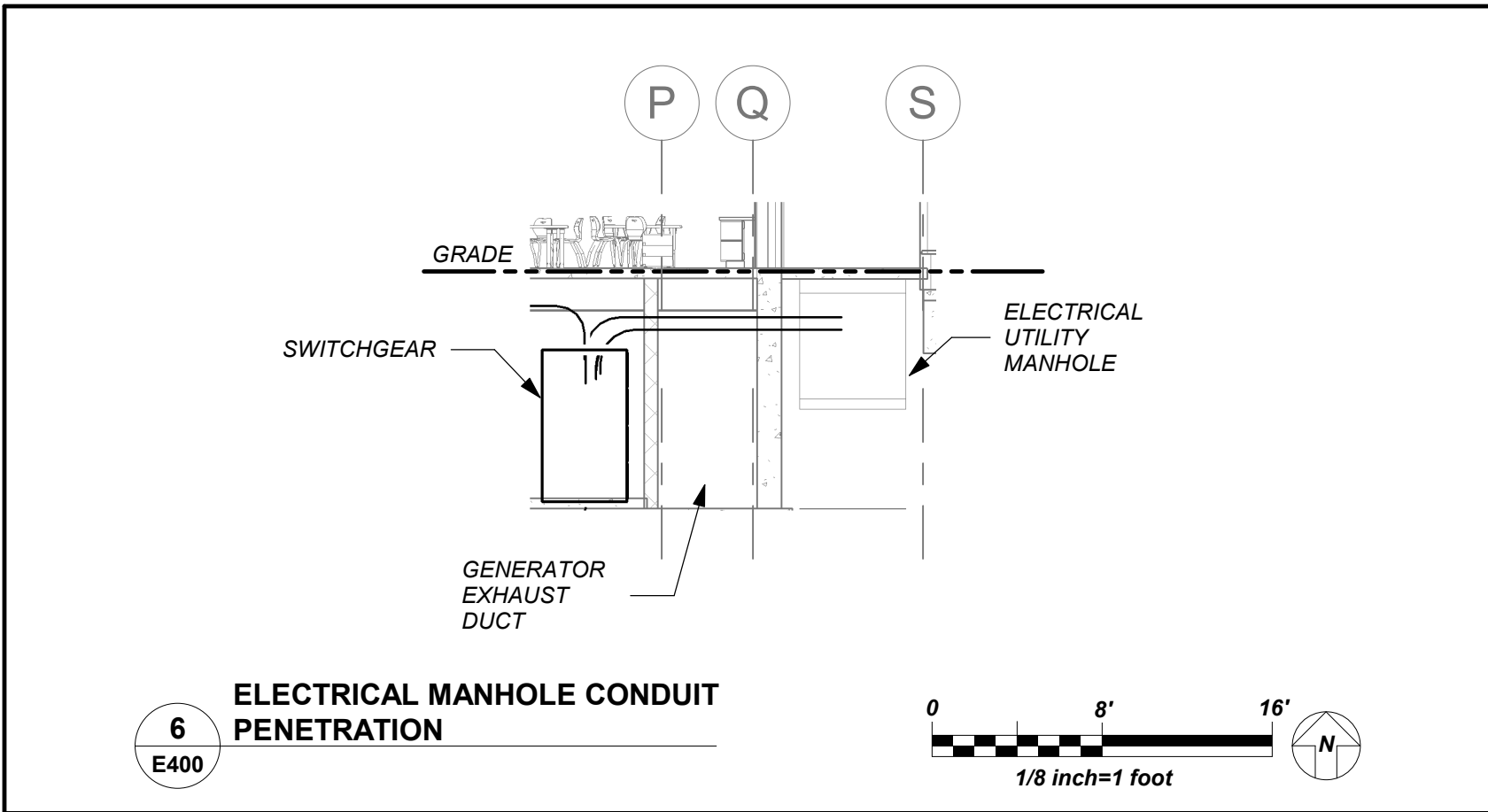
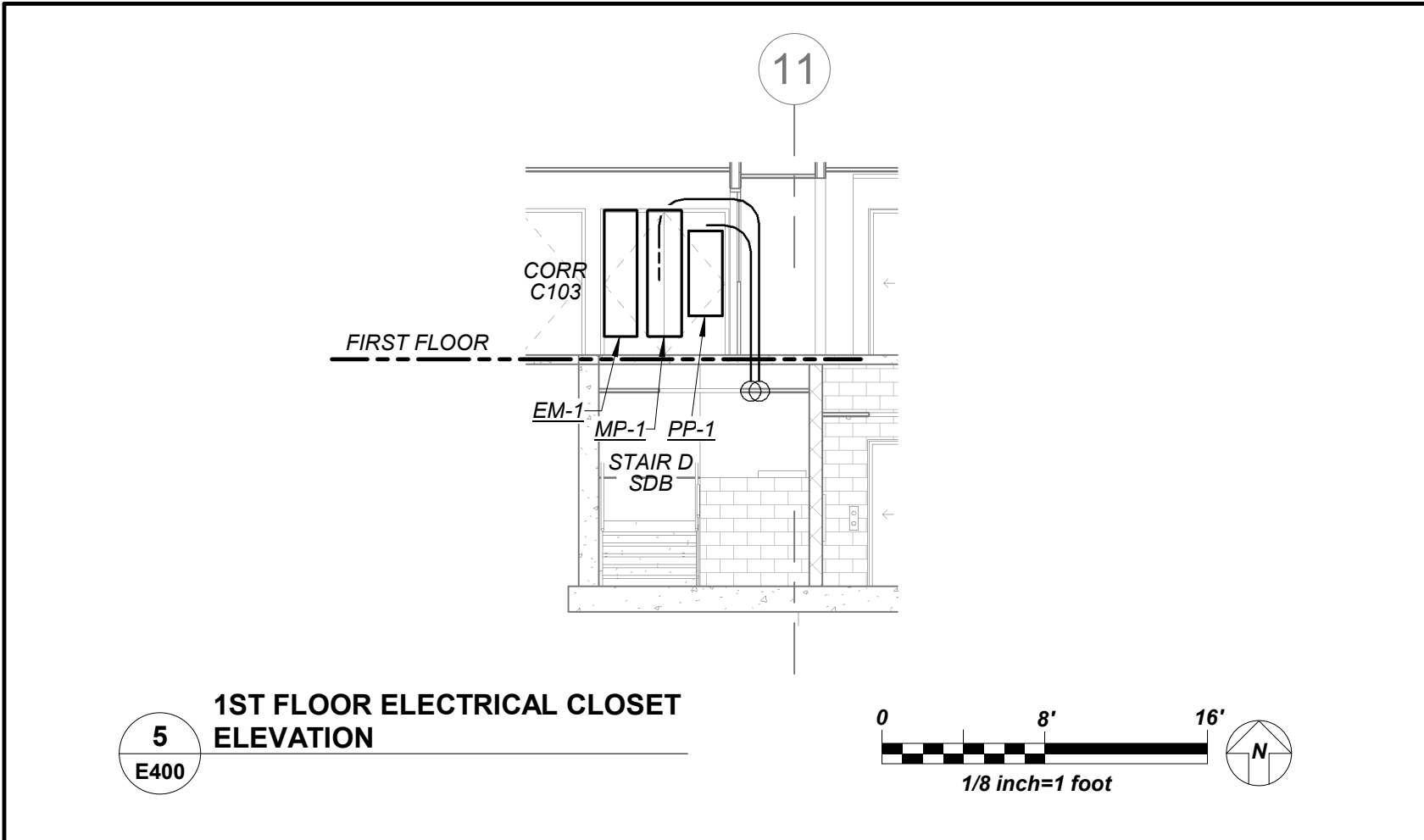
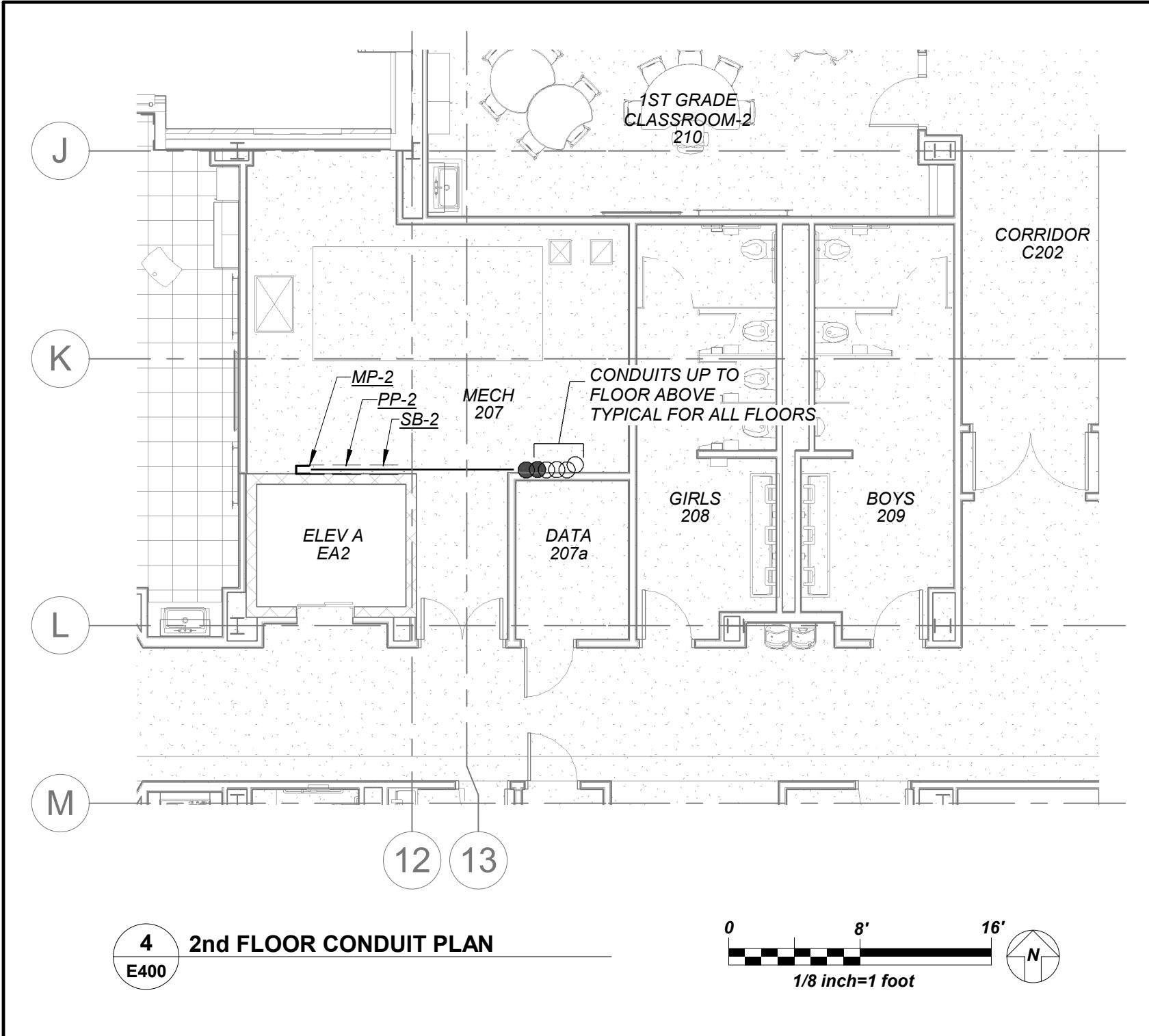
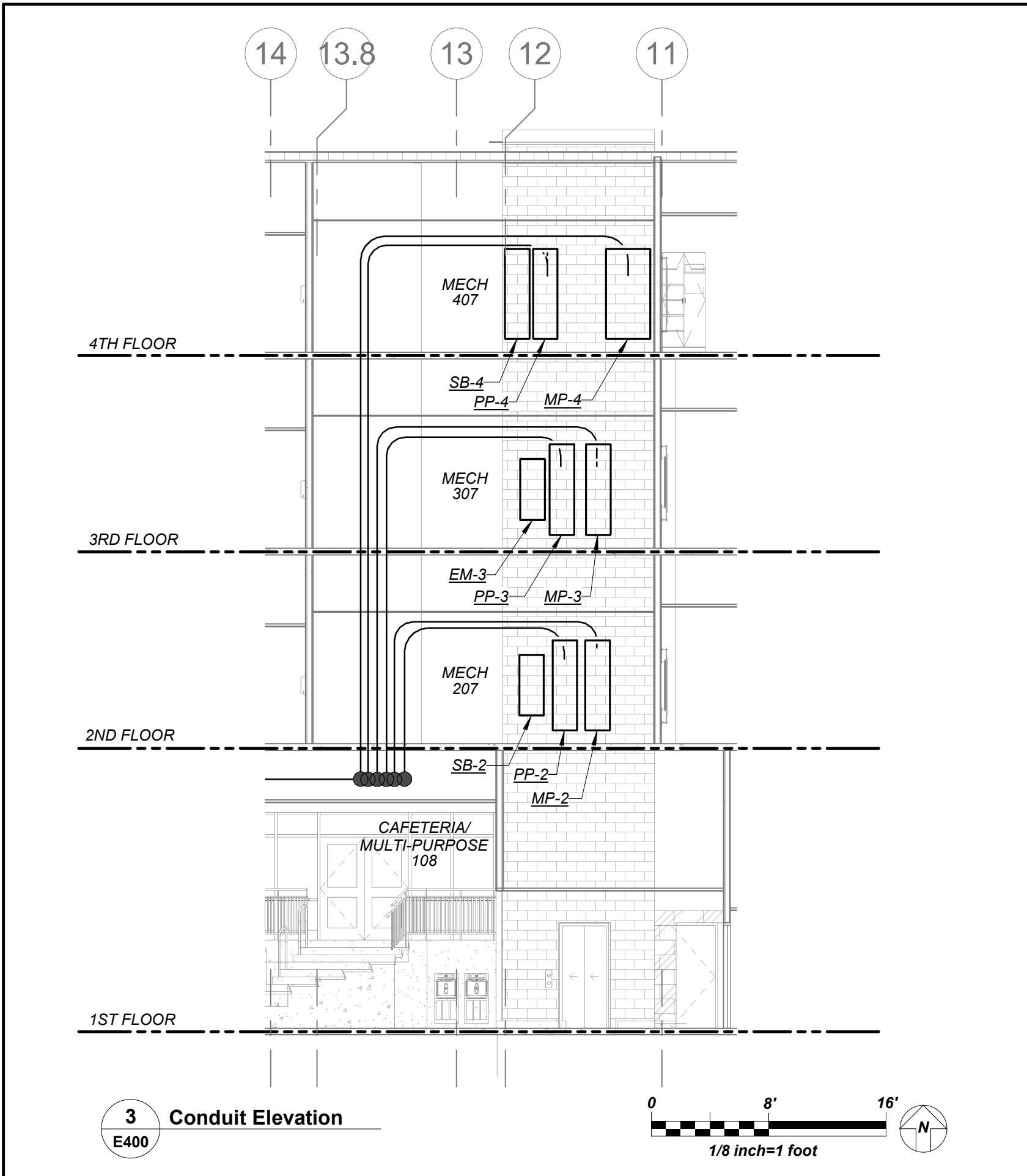
E313



1. REFER TO ELECTRICAL ONE LINE DIAGRAMS ON DRAWING E 500 SERIES, FOR SCOPE OF WORK.
2. REFER TO PANELBOARD SCHEDULE ON DRAWING E 600 SERIES FOR BRANCH CIRCUITING INFORMATION
3. REFER TO DRAWING E 700 SERIES FOR DETAILS.

1 ELECTRICAL CONTRACTOR SHALL COORDINATE LOCATION OF JUNCTION BOX TO SERVE THE POWER SUPPLY FOR AUTOMATIC FLUSH VALVE PRIOR TO THE START IF ANYWORK WITH PLUMBING CONTRACTOR. POWER SUPPLY FURNISHED BY PLUMBING CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL THE 120V CIRCUIT AND ALL LOW VOLTAGE WIRING ON THE LOAD SIDE OF POWER SUPPLY BY PLUMBING CONTRACTOR.

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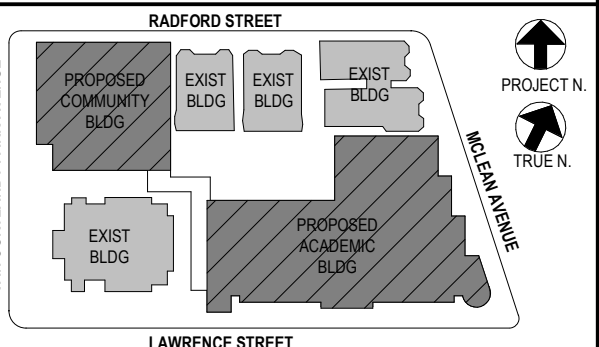
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1 07/14/2021 CONSTRUCTION DOCS-NYSED
No. Date Issue

ELECTRICAL CONDUIT PLAN

Job No. 2019-1026 Date 10/12/21
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Sheet Number

E400

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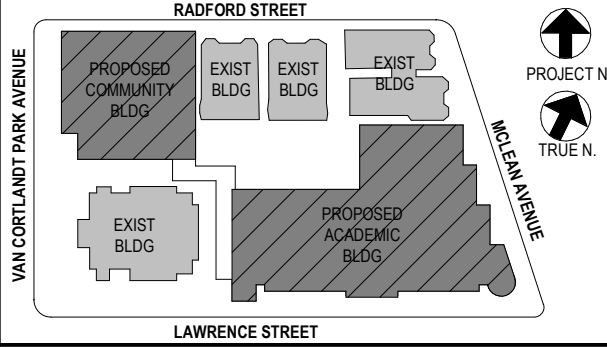
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1	08/31/2020	SCHEMATIC DESIGN

Sheet Title

ELECTRICAL RISERS

Job No. 2019-1026 Date 8/31/20

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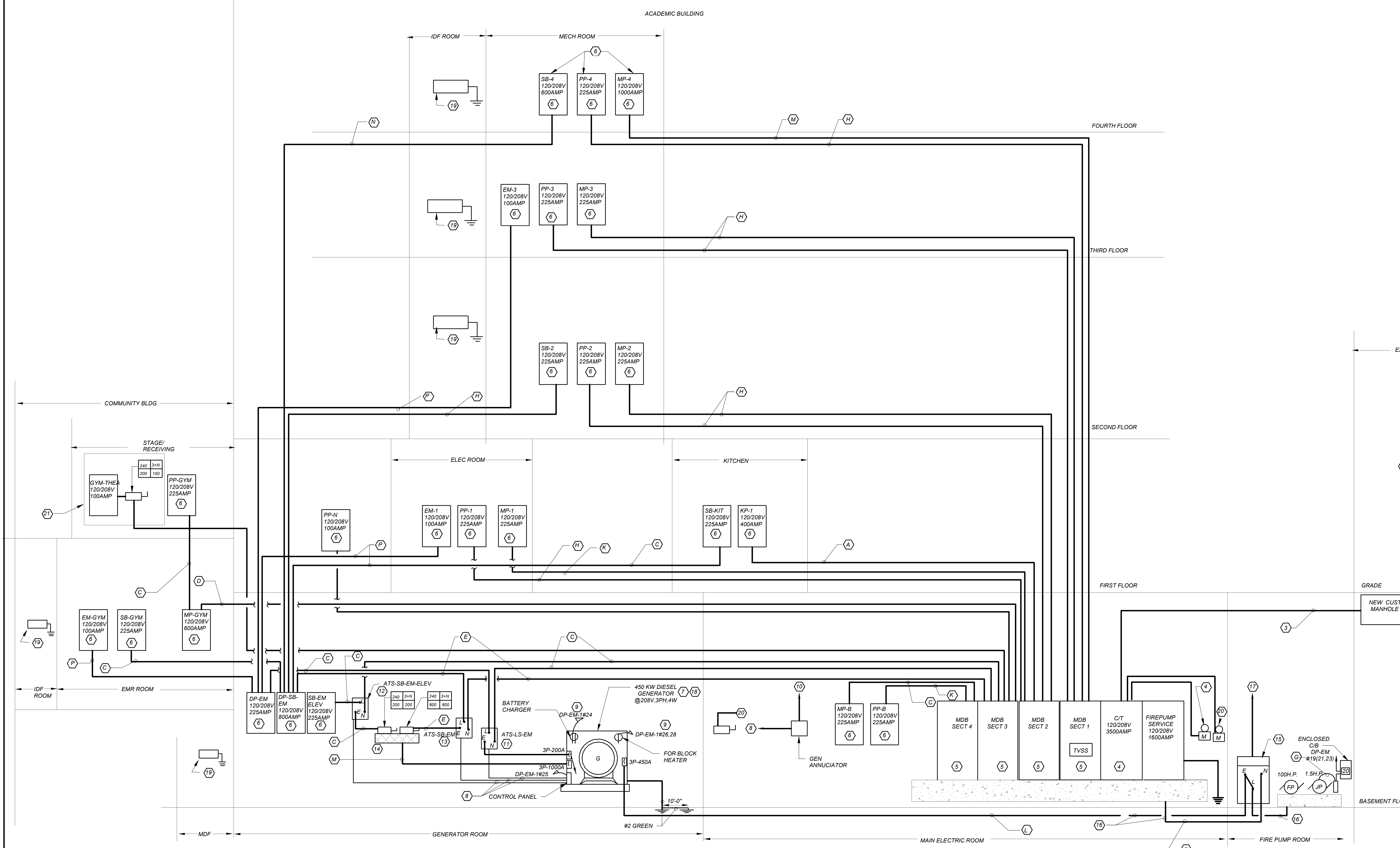
Sheet Number

E501

FEEDER SCHEDULE:

PROVIDE COMPRESSION LUGS FOR ALL ALUMINUM FEEDER

- A 2 SETS OF #4250 KCMIL + 1#2G IN 2.5" C - UTILIZE XHHW-2 AL FEEDER
- B #1/0 + 1#6G IN 2" C - UTILIZE XHHW-2 AL FEEDER
- C #4250KCMIL+1#4G IN 2.5" C - UTILIZE XHHW-2 AL FEEDER
- D 2 SETS OF #4300KCMIL + 1#3/0G IN 3.5" C - UTILIZE XHHW-2 AL FEEDER
- E 3 SETS OF #4400KCMIL + 1#1/0G IN 3" C - UTILIZE XHHW-2 AL FEEDER
- F #4500 KCMIL+1#3 G RHW IN 4" RGS - UTILIZE CU FEEDER
- G 3#10+1#10 IN 3-4" RGS - UTILIZE CU WIRING
- H #4300KCMIL +1#4G IN 3" C - UTILIZE XHHW-2 AL FEEDER
- I #440 + 1#4G IN 2.5" C - UTILIZE XHHW-2 AL FEEDER
- J #430 + 1#6G IN 2" C - UTILIZE XHHW-2 AL FEEDER
- K 2 SETS OF #440KCMIL + 1#2G IN 2-1/2" C - UTILIZE CU WIRING
- L 4 SETS #4250KCMIL+1#4/0G IN 3" C - UTILIZE XHHW-2 AL FEEDER
- M 2 SETS #4350KCMIL+1#1/0G IN 3" C - UTILIZE XHHW-2 AL FEEDER
- N #44 + 1#6G IN 1 1/4" C - UTILIZE XHHW-2 AL FEEDER



WORK NOTES:

- CONED SHALL PROVIDE NEW UTILITY POLE AND RISER FROM POLE TO MANHOLE. EC TO PROVIDE 2 SETS OF 4" RIGID GALVANIZED TEEL (RGS) CONDUIT FROM 10'-0" AFF ON POLE TO 5'-0" AWAY FROM POLE. EC SHALL TRANSITION 4" RGS TO 4" HOPE CONDUIT 5'-0" BEFORE ENTERING MANHOLE. EC TO TRANSITION 4" HOPE CONDUIT TO 4" RGS. CONDUIT SHALL BE BURIED A MINIMUM 24" BELOW GRADE. PROVIDE DRAGWIRE IN BOTH CONDUITS. REFER TO SPECIFICATION FOR CONED SERVICE LAYOUT REQUIREMENTS. BEFORE THE START OF ANY WORK THIS CONTRACTOR SHALL BE RESPONSIBLE TO HAVE ALL EXISTING UTILITIES MARKING PERFORMED IN THE AREA OF ALL WORK BEING PERFORMED BY THIS CONTRACT. THIS INCLUDES AND NOT LIMITED TO ELECTRICAL, WATER, SEWER, STORM, ETC.
- ELECTRICAL CONTRACTOR TO PROVIDE PROPERTY LINE MANHOLE DBE PER CON ED REQUIREMENT. PROVIDE CRABS FOR SECONDARY CONNECTIONS FOR ELEVEN (11) SETS OF #4500KCMIL TO CON ED FEEDERS IN MANHOLE. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES
- PROVIDE TEN (10) SETS OF #4500KCMIL IN TYPE XHHW COPPER IN 4" RGS CONDUIT AND ONE (1) SPARE 4" CONDUIT FROM MANHOLE TO THE NEW MAIN DISTRIBUTION BOARD IN THE BUILDING. CONDUIT SHALL BE BURIED 24" BELOW GRADE. PROVIDE LINK SEAL FOR CONDUIT INSTALLATION THROUGH EXTERIOR BUILDING WALL.
- PROVIDE NEW 120/208V, 3500 AMP, 3PHASE, 4WIRE RATED C7 CABINET AND UTILITY METER PER CON ED REQUIREMENT.
- PROVIDE NEW CUSTOM MADE 120/208V, 3500 AMP, 3PHASE, 4WIRE DISTRIBUTION BOARD FOR 100,000 AIC, WITH TVSS CONTACT ANDREW V7075S FROM LAKE SHORE ELECTRIC COOPERATION (av0705ss@lake-shore-electric.com) FOR CUSTOM SWITCHBOARD. PROVIDE 2"x1/4" GROUND COPPER BUS THE FULL LENGTH OF THE TOTAL BOARD SECTIONS. PROVIDE ONE 4/0 GROUND IN 1" CONDUIT TO STREET SIDE OF MAIN COLD WATER VALVE. TO GROUNDING RODS AND BUILDING STEEL. REFER TO SPECIFICATION FOR TVSS REQUIREMENTS.
- PROVIDE NEW 120/208V PANELBOARD. REFER TO PANEL SCHEDULE FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT ON DRAWING E-601 SERIES.
- PROVIDE NEW 450 KW INTERIOR DIESEL GENERATOR AT 208V, 3 PHASE, 4 WIRE. SIMILAR TO CUMMINS MODEL DPEJ. PROVIDE 6" CONCRETE PAD AS SHOWN, THERE SHALL BE A 3" LIP OF CONCRETE PAD AROUND THE ENTIRE PERIMETER OF THE GENERATOR ENCLOSURE. CONTRACTOR SHALL INSTALL ALL COMPONENTS AND WIRING AS PER MANUFACTURER REQUIREMENTS INCLUDING ALL CONTROL, WIRING TO AND FROM EACH ATS AND ANNUNCIATORS. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION AND REQUIREMENTS CONTACT ED CHUNG @718-892-2400
- PROVIDE TWO PAIR OF 3#12 FOR DC POWER AND TWO PAIRS OF BELDEN 9729 FULLY ISOLATED TWISTED PAIR CABLE WITH SHIELD FOR COMMUNICATION. 3#12 FROM CONTROL BOARD 3#12 PAIRS WILL BE FOR GEN SET START/STOP AND 2#12 PAIRS WILL BE SPARE) AND 2 PAIR OF 14AWG AND BELDEN 9729 FOR RUN RELAY. INSTALL ALL WIRING IN 1 1/4" RGS CONDUIT FROM GENERATOR TO ALL ATS'S. FOLLOW MANUFACTURER'S RECOMMENDATION FOR ALL CONTROL WIRING.
- NEW BRANCH CIRCUIT DP-EM #24, #25 AND #26/28 SHALL RUN IN NEW 1" SCHEDULE 40 CONDUIT IN GROUND, THEN TRANSITION TO GALVANIZED STEEL CONDUIT ON INTERIOR FROM GENERATOR TO INDICATED PANELBOARD PROVIDE SEPARATE GROUND AND NEUTRAL FOR 120V CIRCUITS AND SEPARATE GROUND FOR 208V CIRCUIT.REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION
- PROVIDE NEW GENERATOR REMOTE ANNUNCIATOR AS INDICATED. COORDINATE WITH OWNER FOR THE EXACT MOUNTING LOCATION BEFORE THE START OF ANY WORK. PROVIDE 3#14 FOR DC POWER AND BELDEN 9729 IN 3/4" CONDUIT FROM TRANSFER SWITCHES TO NEW ANNUNCIATOR.
- PROVIDE LIFE SAFETY EMERGENCY AUTOMATIC TRANSFER SWITCH (ATS-LS-EM) RATED 120/208V, 3-PHASE, 4 WIRE, 60 HZ, SOLID NEUTRAL, 225 AMPS, CUMMINS QTEC SERIES FURNISHED IN NEMA 1 ENCLOSURE MOUNTED ON WALL. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION. PROVIDE ALL REQUIRED PROVISIONS AND NECESSARY ACCESSORIES FOR A COMPLETE INSTALLATION. PROVIDE LABELING: "ATS-LS-EM"
- PROVIDE ELEVATOR AUTOMATIC TRANSFER SWITCH (ATS-SB-EM-ELEV) RATED 120/208V, 3-PHASE, 4 WIRE, 60 HZ, SOLID NEUTRAL, 225 AMPS, CUMMINS QTEC SERIES FURNISHED IN NEMA 1 ENCLOSURE MOUNTED ON WALL. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION. PROVIDE ALL REQUIRED PROVISIONS AND NECESSARY ACCESSORIES FOR A COMPLETE INSTALLATION. PROVIDE LABELING: "ATS-SB-EM-ELEV"
- PROVIDE STANDBY AUTOMATIC TRANSFER SWITCH (ATS-SB-EM) RATED 120/208V, 3-PHASE, 4 WIRE, 60 HZ, SOLID NEUTRAL, 800 AMPS, CUMMINS QTEC SERIES FURNISHED IN NEMA 1 ENCLOSURE MOUNTED ON WALL. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION. PROVIDE ALL REQUIRED PROVISIONS AND NECESSARY ACCESSORIES FOR A COMPLETE INSTALLATION. PROVIDE LABELING: "ATS-SB-EM"
- PROVIDE COPPER/ALUMINUM BUS DETAILS FOR CONNECTION FOR ALUMINUM FEEDERS. PROVIDE COMPRESSION LUGS.
- FIRE PUMP ATS CONTROLLER PROVIDED BY PLUMBING CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR.
- ALL FIRE PUMP FEEDERS SHALL BE BURIED IN SLABS, ENCASED IN MINIMUM 2" CONCRETE ENCASEMENT.
- CONTRACTOR TO PROVIDE A SET OF DRY CONTACT AND CONTROL WIRING FROM FIRE PUMP CONTROL PANEL TO SEND OUT SIGNAL TO STANDBY ATS (ATS-SB-EM) UPON PUMP ACTIVATION.
- GENERATOR MANUFACTURER SHALL PROVIDE PROGRAMMING OF ALL AUTOMATIC TRANSFER SWITCHES (ATS), PROGRAM FIRE PUMP (FP) ATS AND STANDBY ATS (ATS-SB-EM) SHALL NEVER BE ON AT THE SAME TIME. IN THE EVENT OF FIRE, FIRE PUMP (FP) ATS, ELEVATOR (SB-EM-ELEV) ATS AND EMERGENCY (ATS-LS-EM) ATS SHALL BE ON AND OPERATIONAL PER CODE. IN THE NON-FIRE EVENT, SUCH AS POWER OUTAGE, STANDBY ATS (ATS-SB-EM) SHALL BE ON AND OPERATIONAL WHEN FIRE PUMP (FP) ATS IS NOT ENERGIZED. PROVIDE ALL NECESSARY PROVISIONS AND REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION AND PROGRAMMING. ONCE FIRE PUMP IS RUNNING AND SENDS SIGNAL TO ATS-SB-EM, STANDBY ATS WILL RECEIVE SIGNAL TO LOAD SHED RELAY AND DROP.
- REFER TO GROUNDING DETAIL SHOWN ON DRAWING E702 (DETAIL 1)

ADD ALTERNATES:

- SOLAR ADD ALTERNATE: PROVIDE NEW DISCONNECT SWITCH & PHOTOVOLTAIC METER. REFER TO PV SERIES DRAWINGS FOR ADDITIONAL INFORMATION. CONNECTION TO ALL SOLAR PV CTR/RELAY AT MDB SHALL BE IN COMPLIANCE WITH CONED REQUIREMENTS. THIS CONTRACTOR IS RESPONSIBLE FOR FILING WITH UTILITY COMPANY AND LOCAL AUTHORITY TO OBTAIN ALL APPROVALS AND PERMITS.
- THEATRICAL ADD ALTERNATE: PROVIDE DISCONNECT SWITCH AND GYM-THEA PANELBOARD AND ALL ASSOCIATED WIRING. REFER TO FLOOR PLANS FOR ADDITIONAL INFORMATION. CONDUIT FOR THE PANELBOARD TO BE PART OF BASE BID

SPECIAL NOTE: ALL PANELBOARDS, DISTRIBUTION PANEL AND BOARD INCLUDING ATS'S AND GENERATOR CONNECTIONS FOR ALL FEEDERS SHALL UTILIZE COPPER/ALUMINUM RATED LUGS AND BREAKERS. UTILIZE COMPRESSION TYPE LUGS FOR ALL ALUMINUM FEEDERS.

POWER RISER DIAGRAM 1 E502 NTS

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

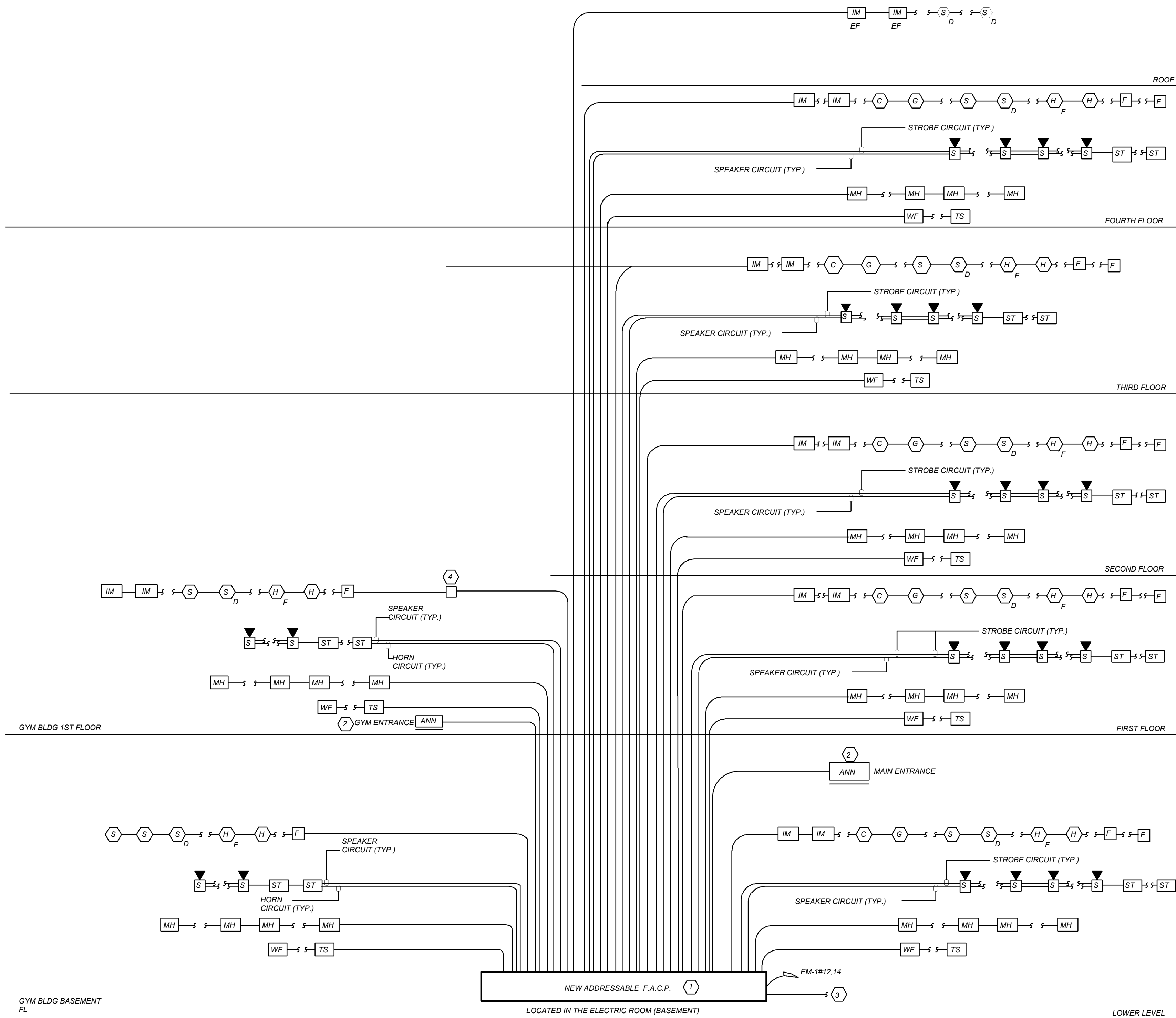
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JOB AND COORDINATE HIS WORK WITH THE WORK
OF ALL OTHER CONTRACTORS

FIRE ALARM RISER GENERAL NOTES:

1. FIRE ALARM WIRING DIAGRAMS SHOWN ARE FOR GENERAL ARRANGEMENT ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY AND OBTAIN POINT TO POINT WIRING DIAGRAM PRIOR TO INSTALLATION FROM MANUFACTURER.
2. PERMITS AND APPROVALS NECESSARY FOR INSTALLATION OF THE WORK SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF THE WORK. ALL PERMIT COSTS AND INSPECTION FEES SHALL BE INCLUDED AS PART OF THIS CONTRACT.
3. UNLESS DIRECTED OTHERWISE BY FIRE ALARM SYSTEM MANUFACTURER FIRE ALARM DEVICE WIRING SHALL BE AS FOLLOWS (FOR BIDDING PURPOSES ONLY):
 - SPEAKER WIRING - #16 AWG TWISTED
 - STROBE WIRING - #14 AWG TWISTED
 - SIGNAL WIRING - #14 AWG TWISTED/SHIELDED
4. THE WIRING SHALL HAVE THE FOLLOWING CHARACTERISTICS:
 - A. A MINIMUM TEMPERATURE RATING OF 150 C.
 - B. A MINIMUM AVERAGE INSULATION THICKNESS OF 15 MILS
 - C. A MINIMUM AVERAGE JACKET THICKNESS OF 25 MILS
 - D. THE COLOR OF THE CABLE SHALL BE RED
 - E. THE CABLE SHALL BE A TYPE FPLP (PLENUM TYPE) WHEN CONDUIT IS USED. SEE NOTE 5 FOR ADDITIONAL CLARIFICATION.
 - F. THE CABLE SHALL BE VISIBLY MARKED EXTERNALLY THAT IT MEETS THE ABOVE REQUIREMENTS AND IS LISTED BY UL.
5. PROVIDE MC FIRE ALARM CABLE WITH RED STRIPE AS MANUFACTURED BY AFC SERIES 1800 WHEN CABLE IS CONCEALED OR ABOVE HUNG CEILING. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN FINISHED AREAS, CABLE SHALL RUN IN WIREMOLD V-700. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN UNFINISHED AREAS, PROVIDE PLENUM RATED CABLE IN MIN. 3/4" CONDUIT.
6. STROBES SHALL HAVE A MINIMUM LIGHT OUTPUT OF 75 CANDELA AND A FLASH RATE OF 1-3 HZ.
7. PER NFPA72: 18.4.3.1, TO MEET PUBLIC MODE AUDIBLE REQUIREMENTS, ALL SPEAKERS SHALL HAVE A SOUND LEVEL AT LEAST 15 dB ABOVE THE AVERAGE AMBIENT SOUND LEVEL.
8. PER NFPA72: 18.4.3.1, TO MEET PUBLIC MODE AUDIBLE REQUIREMENTS, ALL SPEAKERS SHALL HAVE A SOUND LEVEL AT LEAST 15 dB ABOVE THE AVERAGE AMBIENT SOUND LEVEL.
9. WALL MOUNTED SPEAKER STROBE UNITS SHALL NOT HAVE ANY OTHER DEVICES OR APPURTENANCES WITHIN 5 FEET OF THE DEVICE. THE ENTIRE LENS OF THE UNIT SHALL NOT BE LESS THAN 80" AND NOT GREATER THAN 96" ABOVE FINISHED FLOOR, WHILE MAINTAINING 6" BELOW THE CEILING. DEVICES SHALL BE FLUSH MOUNTED IN ALL FINISHED AREAS. PROVIDE DOUBLE DEEP DEVICE BOX IN WALL.
10. SHUTDOWN OF HVAC SYSTEM EQUIPMENT (NOT LIMITED TO, ROOF TOP, EXHAUST FANS, ETC.) OF 1000 CFM OR GREATER SHALL BE PERFORMED VIA A RELAY INTERFACE SYSTEM. SEND SIGNAL TO BUILDING AUTOMATED TEMPERATURE CONTROL (ATC) SYSTEM INDICATING SHUTDOWN HAS OCCURRED. EQUIPMENT RESTART SHALL BE BY BUILDING ATC SYSTEM UPON FIRE ALARM RESET TO NORMAL MODE. RESTART OF EQUIPMENT SHALL BE SEQUENTIAL.
11. AFTER THE SYSTEM IS COMPLETE, TEST ALL COMPONENTS IN ACCORDANCE WITH SEQUENCE OF OPERATION PRIOR TO FIRE DEPARTMENT INSPECTION.
12. AFTER THE SYSTEM IS COMPLETE, TEST ALL COMPONENTS IN ACCORDANCE WITH SEQUENCE OF OPERATION PRIOR TO FIRE DEPARTMENT INSPECTION.
13. ALL PULL STATIONS SHALL BE PROVIDED WITH CLEAR PROTECTIVE LEXAN COVER. COVER SHALL BE AS MANUFACTURED BY SAFETY TECHNOLOGY INTERNATIONAL INC. CAT. #ST1 1100 STOPPER II.
14. COORDINATE F.A WORK WITH F.A VENDOR.
15. VERIFY EXACT QUANTITIES OF FIRE ALARM DEVICES WITH PLANS.
16. ALL DEVICES SHALL BE SUPERVISED AS PER N.F.P.A. 72. PROVIDE END OF LINE RESISTORS AS REQUIRED PER INDIVIDUAL MANUFACTURER. PROVIDE LOAD RELAYS AS REQUIRED FOR PROPER OPERATION OF EQUIPMENT.
17. FIRE SMOKE DAMPERS SHALL BE TIED INTO FIRE ALARM SYSTEM TO SHUT DOWN UPON SMOKE DETECTION ACTIVATION. PROVIDE ALL WIRING, RELAYS, ETC. AS REQUIRED FOR COMPLETE INSTALLATION.
18. PROVIDE WIRE GUARDS FOR ALL FIRE ALARM DEVICES LOCATED IN GYM'S, BOILER ROOMS, LOCKER ROOMS AND MECHANICAL EQUIPMENT ROOMS.
19. CARBON MONOXIDE AND GAS LEAK DETECTOR SHALL RING LOCAL TROUBLE BELL AT FIRE ALARM CONTROL PANEL FOR SUPERVISORY CONDITION ONLY.
20. THE CARBON MONOXIDE DETECTOR SHALL HAVE AN SOUNDER BASE AND INITIATE A SUPERVISORY SIGNAL WHEN 70 PARTS PER MILLION (ppm) ARE REACHED WITHIN 60 TO 240 MINUTES OR 150ppm ARE REACHED WITHIN 10 TO 50 MINUTES, OR 400ppm ARE REACHED WITHIN 4 TO 15 MINUTES AS REQUIRED BY UL 2034.
21. THE GAS DETECTOR SHALL MONITOR PROPANE (LP), AND NATURAL (METHANE) TYPE HEATING GASES. THE GAS DETECTOR SHALL INITIATE A SUPERVISORY SIGNAL WHEN 25% LOWER EXPLOSIVE LIMIT (LEL) IS REACHED AS REQUIRED BY UL 1484.
22. THIS CONTRACTOR IS RESPONSIBLE FOR ALL PROGRAMMING AND MAPPING OF EACH DEVICE AS REQUIRED.

FIRE ALARM RISER WORK NOTES:

- 1 NEW FIRE ALARM CONTROL PANEL (F.A.C.P.) SHALL BE LOCATED IN THE MAIN ELECTRICAL ROOM AND AT GYM ENTRANCE.
- 2 PROVIDE NEW BUILDING LAYOUT WALL PLAQUE INDICATING ALL THE FIRE ALARM DEVICE LOCATIONS WITH DEVICE ADDRESSES. WALL PLAQUE SHALL BE INSTALLED ABOVE ANNUNCIATOR AT MAIN ENTRANCE. COORDINATE WITH BUILDING OWNER AND ARCHITECT FOR ALL ROOM NAMES AND ROOM NUMBERS BEFORE PROGRAMMING FIRE ALARM CONTROL PANEL.
- 3 ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL (2) DEDICATED TELEPHONE LINES TO FIRE ALARM CONTROL PANEL FROM MAIN TELEPHONE CLOSET AS REQUIRED
- 4 PROVIDE AND WIRE SIGA-CR RELAY TO SHUTDOWN STAND ALONE SOUND SYSTEM AMPLIFIER IN THE INDICATED ROOMS WHEN FIRE ALARM IS INITIATED.



FIRE ALARM RISER DIAGRAM 1 N.T.S.
E-502

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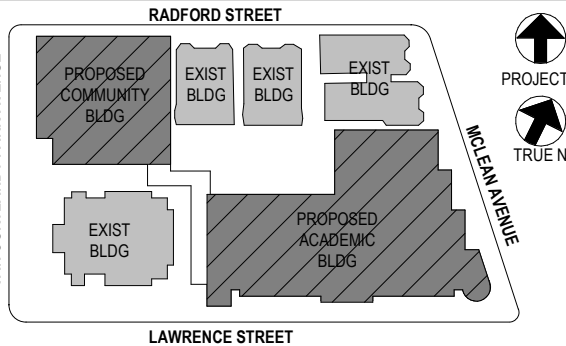
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3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN
No.	Date	Issue

Sheet Title

FIRE ALARM RISER

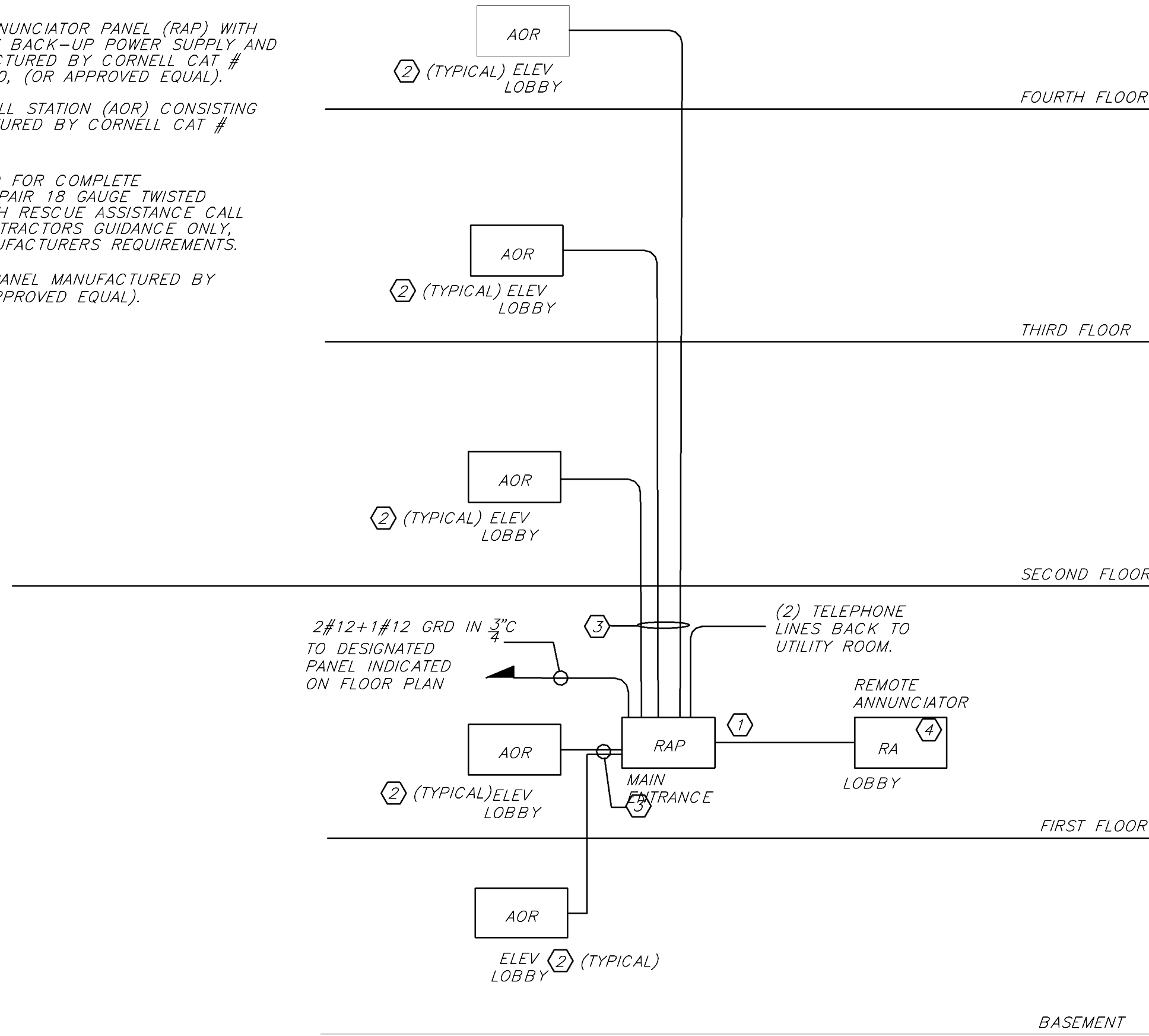
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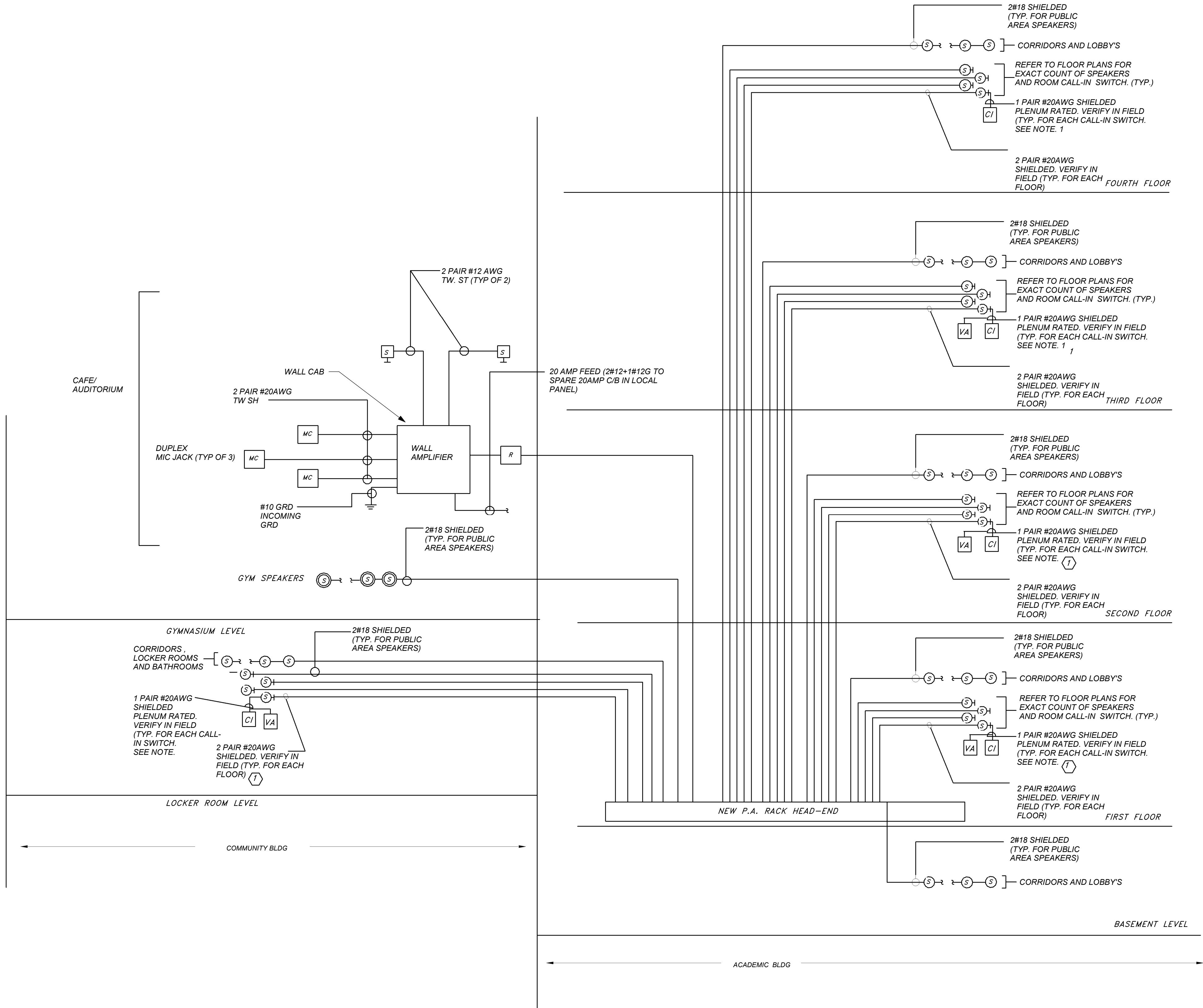
E502

- RESCUE ASSISTANCE SYSTEM RISER**
NOTES:
1. PROVIDE RESCUE ASSISTANCE ANNUNCIATOR PANEL (RAP) WITH ASSOCIATED EMERGENCY BATTERY BACK-UP POWER SUPPLY AND TELEPHONE ACCESS KIT MANUFACTURED BY CORNELL CAT # A-4204 & B-5243A & TAK-4200. (OR APPROVED EQUAL).
 2. PROVIDE RESCUE ASSISTANCE CALL STATION (AOR) CONSISTING OF DOUBLE GANGBOX, MANUFACTURED BY CORNELL CAT # 4201B (OR APPROVED EQUAL).
 3. PROVIDE ALL WIRING AS REQUIRED FOR COMPLETE INSTALLATION. PROVIDE 3#12+1#18 GAUGE TWISTED SHIELDED PAIR TO CONNECT EACH RESCUE ASSISTANCE CALL STATION. WIRE SIZE IS FOR CONTRACTORS GUIDANCE ONLY. EXACT WIRE SIZE TO BE AS MANUFACTURERS REQUIREMENTS.
 4. PROVIDE REMOTE ANNUNCIATOR PANEL MANUFACTURED BY CORNELL CAT # A4010TG (OR APPROVED EQUAL).



RESCUE ASSISTANCE SYSTEM RISER DIAGRAM 2 N.T.S. E503

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS



- NOTES:**
1. VERIFY EXACT QUANTITY AND LOCATION OF DEVICES ON PLAN DRAWINGS.
 2. WIRING TYPES ARE SHOWN FOR REFERENCE ONLY. VERIFY EXACT WIRING REQUIREMENTS WITH MANUFACTURER.
 3. ELECTRICAL CONTRACTOR SHALL PROVIDE PLENUM RATED WIRING AND RUN EXPOSED ABOVE ACCESSIBLE CEILING. IT SHALL BE RUN IN EMT CONDUIT WHERE EXPOSED. EXCEPT IN CORRIDORS, CLASSROOMS AND OFFICES WIRING SHALL BE RUN IN STEEL SURFACE RACEWAY (SIMILAR TO WIREMOLD V-500 AND/OR V-700). WIRING SHALL ALSO BE RUN IN EMT FOR STUB-UPS IN CONCEALED WALLS.
 4. ALL PROGRAMMING AND FINAL CONNECTIONS TO P.A. SYSTEM RACK SHALL BE BY SYSTEM MAINTENANCE CONTRACTOR. ALL COSTS ASSOCIATED WITH THIS SHALL BE BY ELECTRICAL CONTRACTOR.
- WORK NOTES:**
1. ALL SPEAKERS IN CLASSROOMS, WHERE INDICATED ON FLOOR PLAN SHALL BE PROVIDED WITH CALL-IN SWITCH AND WIRED AS INDICATED. ALL OFFICES SHALL BE PROVIDED WITH VOLUME ATTENUATORS (VA)
 2. GYM/AUDITORIUM SOUND SYSTEM SHALL BE CAPABLE OF INTERFACING WITH SCHOOL PUBLIC ADDRESS SYSTEM AND CAPABLE OF ANNOUNCING CALLS FROM P.A. SYSTEM. PROVIDE A SIGNAL INTERFACE FROM MAIN PA RACK AS WELL TO OVERRIDE THE LOCAL SOUND SYSTEM.

PUBLIC ADDRESS SYSTEM RISER DIAGRAM 1 N.T.S. E503

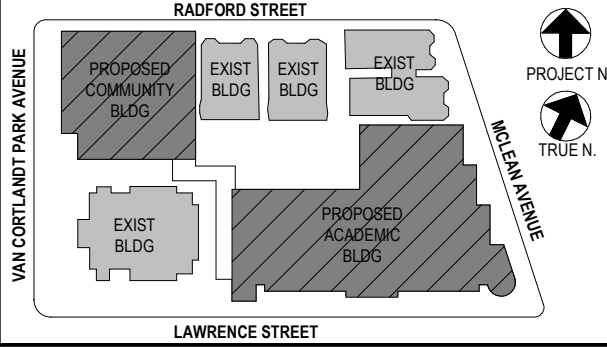
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Sheet Title

PUBLIC ADDRESS & RESCUE ASSISTANCE RISER

Job No.	2019-1026	Date	07/12/21
Scale	AS NOTED	Drawn / Checked	Author / Checker

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E503

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

LIGHTING FIXTURE SCHEDULE CONT.				
TYPE	MOUNTING	LAMPS	DESCRIPTION	MANUFACTURER & CAT.#
M	PENDENT MOUNTED	132W LED UNV	INDUSTRIAL HIGH BAY, PENDENT MOUNTED LED TYPE FIXTURE 15000 LUMENS, 3000K COLOR TEMPERATURE, 80 CRI, MATTE WHITE FINISH WITH WIREGUARDS, CLEAR ACRYLIC REFLECTOR, 6' AIRCRAFT CABLE WITH STRAIGHT CORD, WITH WIRE GUARD	MANUFACTURER: DAYBRITE CFI MODEL# RBX-15L-830-UNV-WT-ARR225-HCH6-3/4-SC-WGA-22
M EM	PENDENT MOUNTED	132W LED UNV	SAME AS FIXTURE "M" BUT WIRED TO GENERATOR	MANUFACTURER: DAYBRITE CFI MODEL# RBX-15L-830-UNV-WT-ARR225-HCH6-3/4-SC-WGA-22
N	PENDENT MOUNTED	32W LED UNV	4' LINEAR, DECORATIVE LED TYPE FIXTURE, SYMMETRIC DISTRIBUTION, 80 CRI, 3000K COLOR TEMPERATURE, 3600 LUMENS, UNIVERSAL VOLTAGE, 0-10V DIMMING	MANUFACTURER: LEDALITE BY SIGNIFY MODEL# 12-0-1-L-C-E-Q-S-04-7-D-E-T-A2-24
N EM	PENDENT MOUNTED	32W LED UNV	SAME AS FIXTURE "N" BUT WIRED TO GENERATOR	MANUFACTURER: LEDALITE BY SIGNIFY MODEL# 12-0-1-L-C-E-Q-S-04-7-D-E-T-A2-24
P	SURFACE WALL MOUNTED	30 W LED UNV	24" LONG LED FIXTURE, MATTE WHITE ACRYLIC DIFFUSER MATTE, SILVER METALIC FINISH, 3000K COLOR TEMPERATURE, 2050 LUMENS, 80 CRI, 0-10V DIMMING	MANUFACTURER: OCL MODEL #H01-S1SA-24-MW-SMP-LED1/30K -UNV-DM1
P EM	SURFACE WALL MOUNTED	30 W LED UNV	SAME AS FIXTURE "P" BUT WIRED TO GENERATOR	MANUFACTURER: OCL MODEL #H01-S1SA-24-MW-SMP-LED1/30K -UNV-DM1
P-2	SURFACE WALL MOUNTED	28 W LED UNV	1'x4' LED TYPE UTILITY FIXTURE, WITH LINEAR PRISMATIC ACRYLIC LENS.	MANUFACTURER: DAYBRITE MODEL #LS-2-R-2-28-UNV
P-2 EM	SURFACE WALL MOUNTED	28 W LED UNV	SAME AS FIXTURE "P2" BUT WIRED TO GENERATOR	MANUFACTURER: DAYBRITE MODEL #LS-2-R-2-28-UNV
R	PENDENT MOUNTED	20W LED 120	PENDENT MOUNTED LED TYPE LIGHT, 12" x 12" DIAMETER, 3000K COLOR TEMPERATURE, 2300 LUMENS, 80 CRI, 0-10V DIMMING, OPAL WHITE GLASS DIFFUSER LENS, STANDARD PAINTED FINISH.	MANUFACTURER: MANNING LIGHTING MODEL #DP-46-12/PT/DP-46-12/30-D0-120-WHG
R EM	PENDENT MOUNTED	20W LED 120	SAME AS FIXTURE "R" BUT WIRED TO GENERATOR	MANUFACTURER: MANNING LIGHTING MODEL #DP-46-12/PT/DP-46-12/30-D0-120-WHG
AA2	RECESSED MOUNTED	40W LED UNV	2' WIDE LED TYPE RECESSED FIXTURE, 4800 LUMENS, 3000K COLOR TEMPERATURE, 80 CRI, DIFFUSED SMOOTH LENS, 0-10V DIMMING, SUITABLE FOR GRID CEILING.	MANUFACTURER: DAYBRITE BY SIGNIFY MODEL# 2-FFX-G-48L-830-4-DS-UNV-DIM
AA2 EM	RECESSED MOUNTED	40W LED UNV	SAME AS FIXTURE "AA" BUT WIRED TO GENERATOR	MANUFACTURER: DAYBRITE BY SIGNIFY MODEL# 2-FFX-G-48L-830-4-DS-UNV-DIM
S	SURFACE WALL MOUNTED	37W LED UNV	LED TYPE EXTERIOR WALL SCONCE, NEUTRAL WHITE LED COLOR, 700mA DRIVE CURRENT, 4000K COLOR TEMPERATURE, 70 CRI, 0-10V DIMMING, DARK GRAY FINISH, WITH INTEGRAL PHOTOCELLS	MANUFACTURER: GARDCO BY SIGNIFY MODEL # 101L-16L-700-WW-G1-2-UNV-DD-PCB -F1-DGY
S EM	SURFACE WALL MOUNTED	37W LED UNV	SAME AS FIXTURE "S" BUT WIRED TO GENERATOR	MANUFACTURER: GARDCO BY SIGNIFY MODEL # 101L-16L-700-WW-G1-2-UNV-DD-PCB -F1-DGY
SS1	SURFACE WALL MOUNTED	45W LED UNV	4 FT STRIP LED STRIP LIGHTING, SURFACE MOUNTED, 5400 HIGH LUMEN OUTPUT, 3500K COLOR TEMPERATURE, LIGHT FIXTURE SHALL BE WIRED TO GENERATOR.	MANUFACTURER: COLUMBIA LIGHTING MODEL # CSL4-LSCS
W-1	SURFACE WALL MOUNTED	24W LED UNV	LED TYPE EXTERIOR WALL SCONCE, INTEGRATED DRIVER, DOWN DIRECTION LIGHTING, 1300 LUMENS, 98 CRI, 3000K COLOR TEMPERATURE, 20 DEGREE REFLECTOR, WALL WASH, CHARCOAL GRAY SHELL COLOR, 0-10V DIMMING	MANUFACTURER: ALW MODEL # K4RL-N-V-D-13-98-30-20-WW-CG
W-1 EM	SURFACE WALL MOUNTED	24W LED UNV	SAME AS FIXTURE "W1" BUT WIRED TO GENERATOR	MANUFACTURER: ALW MODEL # K4RL-N-V-D-13-98-30-20-WW-CG
W-2	SURFACE WALL MOUNTED	24W LED UNV	LED TYPE EXTERIOR WALL SCONCE, INTEGRATED DRIVER, DOWN DIRECTION LIGHTING, 1300 LUMENS, 98 CRI, 3000K COLOR TEMPERATURE, 20 DEGREE REFLECTOR, WALL WASH, CHARCOAL GRAY SHELL COLOR.	MANUFACTURER: ALW MODEL # K3RS-N-V-D-13-98-30-20-WW-CG
W-2 EM	SURFACE WALL MOUNTED	24W LED UNV	SAME AS FIXTURE "W2" BUT WIRED TO GENERATOR	MANUFACTURER: ALW MODEL # K3RS-N-V-D-13-98-30-20-WW-CG
Z	RECESSED FLOOR MOUNTED	36W LED 120V	EXTERIOR STEP LED TYPE LIGHT, 3-1/2" x9" ALUMINUM HOUSING ZINC FINISH	MANUFACTURER: DIODE LED MODEL #CB100-A-K3812
ZZ	EXTERIOR POLE MOUNTED	38W LED UNV	EXTERIOR POLE MOUNTED LED TYPE FIXTURE, FORWARD OPTICS, 3000K COLOR TEMPERATURE, TYPE 3 MEDIUM DISTRIBUTION, UNIVERSAL VOLTAGE, SQUARE POLE MOUNTING, 0-10V DIMMING, HOUSE SLOED SHIELD, BLACK FINISH, INTEGRAL PHOTOCCELL.	MANUFACTURER: LITHONIA MODEL # DSXO LED-PPL-30K-T3M-MVOLT-SPA-DMG-HS-DBLXD-DLL127F1.5U
ZZ-1	EXTERIOR POLE MOUNTED	38W LED UNV	EXTERIOR POLE MOUNTED LED TYPE FIXTURE, FORWARD OPTICS, 3000K COLOR TEMPERATURE, TYPE 4 MEDIUM DISTRIBUTION, UNIVERSAL VOLTAGE, SQUARE POLE MOUNTING, 0-10V DIMMING, HOUSE SLOED SHIELD, BLACK FINISH, INTEGRAL PHOTOCCELL.	MANUFACTURER: LITHONIA MODEL # DSXO LED-PPL-30K-T4M-MVOLT-SPA-DMG-HS-DBLXD-DLL127F1.5U
EXIT LIGHT	SURFACE WALL MOUNTED	5W LED 120V	LED TYPE EXIT LIGHT, STEEL HOUSING, NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED ON PLANS, SELF POWERED MODEL WITH 90 MINUTE EMERGENCY BATTERY PACK.	MANUFACTURER: COOPER LIGHTING ATLITE MODEL # XLN1-6-S-R-12U

LIGHTING FIXTURE SCHEDULE CONT.				
TYPE	MOUNTING	LAMPS	DESCRIPTION	MANUFACTURER & CAT.#
C-1	PENDENT MOUNTED	164 W LED UNV	DECORATIVE LED TYPE PENDENT FIXTURE, 30" RADIUS, DIRECT LIGHTING, LOW OUTPUT, 3000K COLOR TEMPERATURE, 80 CRI, INDIRECT LIGHTING, LOW OUTPUT, 3000K COLOR TEMPERATURE, 80 CRI, 0-10V DIMMING, EXTRA DIFFUSED LENS FOR BOTH DIRECT/INDIRECT LIGHTING, BLUE FINISH.	MANUFACTURER: ALW CRESCENT MOONRING MODEL#MR1.5-CQ304-SS-L0W-80-3000K-0/10V/S -LENS-N-L0W-80-3000K-0/10V/S-LENS-G8-UNV
C-1 EM	PENDENT MOUNTED	164 W LED UNV	SAME AS FIXTURE "C-1" BUT WIRED TO GENERATOR	MANUFACTURER: ALW CRESCENT MOONRING MODEL#MR1.5-CQ304-SS-L0W-80-3000K-0/10V/S -LENS-N-L0W-80-3000K-0/10V/S-LENS-G8-UNV
D	PENDENT MOUNTED	42 W LED UNV	LINEAR LED TYPE FIXTURE, 4' LONG, 5500 LUMENS, 3000K COLOR TEMPERATURE, 80 CRI, FLAT DIFFUSED LENS WITH 5' CHAINS AND "Y" HOOKS.	MANUFACTURER: DAY BRITE CFI MODEL#BLX-55L-630-UNV-FD-FKR-126
D EM	PENDENT MOUNTED	42 W LED UNV	SAME AS FIXTURE "D" BUT WIRED TO GENERATOR	MANUFACTURER: DAY BRITE CFI MODEL#BLX-55L-630-UNV-FD-FKR-126
F	PENDENT MOUNTED	60 W LED UNV	PENDENT MOUNTED 6' LED TYPE FIXTURE, 80 CRI, 3500K, 4500 LUMENS 75% DOWN LIGHTING, SINGLE CIRCUIT, STANDARD WHITE COVER WITH DUST COVER, T-GRID ON GRID MOUNT.	MANUFACTURER: LEDALITE MODEL#24-R5-L-B-C-A-G-06-7-D-E-Y-D-A6-3-24
F EM	PENDENT MOUNTED	60 W LED UNV	SAME AS FIXTURE "F" BUT WIRED TO GENERATOR	MANUFACTURER: LEDALITE MODEL#24-R5-L-B-C-A-G-06-7-D-E-Y-D-A6-3-24
F-12	PENDENT MOUNTED	120 W LED UNV	PENDENT MOUNTED 6' LED TYPE FIXTURE, 80 CRI, 3500K, 4500 LUMENS 75% DOWN LIGHTING, SINGLE CIRCUIT, STANDARD WHITE COVER WITH DUST COVER, T-GRID ON GRID MOUNT.	MANUFACTURER: LEDALITE MODEL#24-R5-L-B-C-A-G-12-7-D-E-Y-D-A6-3-24
F-12 EM	PENDENT MOUNTED	120 W LED UNV	SAME AS FIXTURE "F-12" BUT WIRED TO GENERATOR	MANUFACTURER: LEDALITE MODEL#24-R5-L-B-C-A-G-12-7-D-E-Y-D-A6-3-24
F-16	PENDENT MOUNTED	160 W LED UNV	PENDENT MOUNTED 15' LED TYPE FIXTURE, 80 CRI, 3500K, 4500 LUMENS 75% DOWN LIGHTING, SINGLE CIRCUIT, STANDARD WHITE COVER WITH DUST COVER, T-GRID ON GRID MOUNT.	MANUFACTURER: LEDALITE MODEL#24-R5-L-B-C-A-S-16-7-D-E-Y-D-A6-3-24
F-16 EM	PENDENT MOUNTED	160 W LED UNV	SAME AS FIXTURE "F-16" BUT WIRED TO GENERATOR	MANUFACTURER: LEDALITE MODEL#24-R5-L-B-C-A-S-16-7-D-E-Y-D-A6-3-24
G	RECESSED MOUNTED	113 W LED UNV	3" DIAMETER RECESSED LED FIXTURE, 300K COLOR TEMPERATURE, 9000 LUMENS, PROGRAMMABLE OUTPUT, SINGLE CIRCUIT, FLAT WHITE ACRYLIC LENS, TEXTURED MATTE WHITE FINISH, 0-10V DIMMING.	MANUFACTURER: PRUDENTIAL LIGHTING- P8900 MODEL #P8950-LED3-PROG-FWA-TMW-SC-UNV -X1-DM01
G EM	RECESSED MOUNTED	113 W LED UNV	SAME AS FIXTURE "G" BUT WIRED TO GENERATOR	MANUFACTURER: PRUDENTIAL LIGHTING- P8900 MODEL #P8950-LED3-PROG-FWA-TMW-SC-UNV -X1-DM01
H-8	PENDENT MOUNTED	58 W LED UNV	8' LONG LED TYPE FIXTURE, 80 CRI, 3000K, 3400 LUMENS PER 4', MESOPTIC LENS, 50% DISTRIBUTION, TITANIUM SILVER FINISH, UNIVERSAL VOLTAGE, 24" SUSPENSION.	MANUFACTURER: LEDALITE BY SIGNIFY MODEL #7406-L-C-E-Q-D-8-7-D-E-T-A6-3-24
H-8 EM	PENDENT MOUNTED	58 W LED UNV	SAME AS FIXTURE "H-8" BUT WIRED TO GENERATOR	MANUFACTURER: LEDALITE BY SIGNIFY MODEL #7406-L-C-E-Q-D-8-7-D-E-T-A6-3-24
H-16	PENDENT MOUNTED	116 W LED UNV	16' LONG LED TYPE FIXTURE, 80 CRI, 3000K, 3400 LUMENS PER 4', MESOPTIC LENS, 50% DISTRIBUTION, TITANIUM SILVER FINISH, UNIVERSAL VOLTAGE, 24" SUSPENSION.	MANUFACTURER: LEDALITE BY SIGNIFY MODEL #7406-L-C-E-Q-D-16-7-D-E-T-A6-3-24
H-16 EM	PENDENT MOUNTED	116 W LED UNV	SAME AS FIXTURE "H-16" BUT WIRED TO GENERATOR	MANUFACTURER: LEDALITE BY SIGNIFY MODEL #7406-L-C-E-Q-D-16-7-D-E-T-A6-3-24
H-20	PENDENT MOUNTED	145 W LED UNV	20' LONG LED TYPE FIXTURE, 80 CRI, 3000K, 3400 LUMENS PER 4', MESOPTIC LENS, 50% DISTRIBUTION, TITANIUM SILVER FINISH, UNIVERSAL VOLTAGE, 24" SUSPENSION.	MANUFACTURER: LEDALITE BY SIGNIFY MODEL #7406-L-C-E-Q-D-20-7-D-E-T-A6-3-24
H-20 EM	PENDENT MOUNTED	145 W LED UNV	SAME AS FIXTURE "H-20" BUT WIRED TO GENERATOR	MANUFACTURER: LEDALITE BY SIGNIFY MODEL #7406-L-C-E-Q-D-20-7-D-E-T-A6-3-24
H-24	PENDENT MOUNTED	174 W LED UNV	24' LONG LED TYPE FIXTURE, 80 CRI, 3000K, 3400 LUMENS PER 4', MESOPTIC LENS, 50% DISTRIBUTION, TITANIUM SILVER FINISH, UNIVERSAL VOLTAGE, 24" SUSPENSION.	MANUFACTURER: LEDALITE BY SIGNIFY MODEL #7406-L-C-E-Q-D-24-7-D-E-T-A6-3-24
H-24 EM	PENDENT MOUNTED	174 W LED UNV	SAME AS FIXTURE "H-24" BUT WIRED TO GENERATOR	MANUFACTURER: LEDALITE BY SIGNIFY MODEL #7406-L-C-E-Q-D-24-7-D-E-T-A6-3-24
H-30	PENDENT MOUNTED	145 W LED UNV	20' LONG LED TYPE FIXTURE, 80 CRI, 3000K, 3400 LUMENS PER 4', MESOPTIC LENS, 50% DISTRIBUTION, TITANIUM SILVER FINISH, UNIVERSAL VOLTAGE, 24" SUSPENSION.	MANUFACTURER: LEDALITE BY SIGNIFY MODEL #7406-L-C-E-Q-D-20-7-D-E-T-A1-24
H-30 EM	PENDENT MOUNTED	145 W LED UNV	SAME AS FIXTURE "H-30" BUT WIRED TO GENERATOR	MANUFACTURER: LEDALITE BY SIGNIFY MODEL #7406-L-C-E-Q-D-20-7-D-E-T-A1-24
J	SURFACE WALL MOUNTED	18 W LED UNV	WALL MOUNTED LED TYPE LIGHTING, 1674 LUMENS 3000K COLOR TEMPERATURE, CLEAR LENS DIFFUSE LENS, WHITE FINISH, 0-10V DIMMING, UNIVERSAL VOLTAGE.	MANUFACTURER: SELUX MODEL #KJUC-1A55-3G-L-F-WH-U-DIM
J EM	SURFACE WALL MOUNTED	18 W LED UNV	WALL MOUNTED LED TYPE LIGHTING, 1674 LUMENS 3000K COLOR TEMPERATURE, CLEAR LENS DIFFUSE LENS, WHITE FINISH, 0-10V DIMMING, UNIVERSAL VOLTAGE.	MANUFACTURER: SELUX MODEL #KJUC-1A55-3G-L-F-WH-U-DIM
K	SURFACE MOUNTED	28 W LED UNV	18" SURFACE MOUNTED LED TYPE FIXTURES, 3300 LUMENS, 3000K COLOR TEMPERATURE, STANDARD OUTPUT, SAPPHIRE MATTE FINISH, DIRECT LIGHT DISTRIBUTION, 0-10V DIMMING, UNIVERSAL VOLTAGE.	MANUFACTURER: PRUDENTIAL LIGHTING MODEL# GszRDH-18-LED3-SO-YSAM-D1-SC -UNV-SUR-X1-DM01
K EM	SURFACE MOUNTED	28 W LED UNV	SAME AS FIXTURE "K-2" BUT WIRED TO GENERATOR	MANUFACTURER: PRUDENTIAL LIGHTING MODEL# GszRDH-18-LED3-SO-YSAM-D1-SC -UNV-SUR-X1-DM01
K-2	SURFACE MOUNTED	15 W LED UNV	24" SURFACE MOUNTED LED TYPE FIXTURES, 1700 LUMENS, 3000K COLOR TEMPERATURE, LOW OUTPUT, SAPPHIRE MATTE FINISH, DIRECT LIGHT DISTRIBUTION, 0-10V DIMMING, UNIVERSAL VOLTAGE.	MANUFACTURER: PRUDENTIAL LIGHTING MODEL# GszRDH-24-LED3-LO-YSAM-D1-SC -UNV-SUR-X1-DM01
K-2 EM	SURFACE MOUNTED	15 W LED UNV	SAME AS FIXTURE "K-2" BUT WIRED TO GENERATOR	MANUFACTURER: PRUDENTIAL LIGHTING MODEL# GszRDH-24-LED3-LO-YSAM-D1-SC -UNV-SUR-X1-DM01

LIGHTING FIXTURE SCHEDULE				
TYPE	MOUNTING	LAMPS	DESCRIPTION	MANUFACTURER & CAT.#
AA	RECESSED MOUNTED	33W LED UNV	2' WIDE LED TYPE RECESSED FIXTURE, 4300 LUMENS, 3000K COLOR TEMPERATURE, 80 CRI, DIFFUSED SMOOTH LENS, 0-10V DIMMING, SUITABLE FOR GRID CEILING.	MANUFACTURER: DAYBRITE BY SIGNIFY MODEL# 2-FFX-G-43L-830-4-DS-UNV-DIM
AA EM	RECESSED MOUNTED	33W LED UNV	SAME AS FIXTURE "AA" BUT WIRED TO GENERATOR	MANUFACTURER: DAYBRITE BY SIGNIFY MODEL# 2-FFX-G-43L-830-4-DS-UNV-DIM
BB	RECESSED MOUNTED	77 W LED UNV	2'X2' LED TYPE FIXTURE WITH FLANGED MOUNTING STANDARD, WHITE LIGHT, ANTIMICROBIAL, POLYESTER POWDER COAT FINISH, 4000 LUMENS, 30K COLOR TEMPERATURE, 0-10V DIMMING.	MANUFACTURER: PMC LIGHTING MODEL# SC2134RPL-FL-SWEM-30K-2'X2'-FCA-WHT -UNV
BB EM	RECESSED MOUNTED	77 W LED UNV	SAME AS FIXTURE "BB" BUT WIRED TO GENERATOR	MANUFACTURER: PMC LIGHTING MODEL# SC2134RPL-FL-SWEM-30K-2'X2'-FCA-WHT -UNV
CC	RECESSED MOUNTED	40 W LED UNV	2'X2' LED TYPE FIXTURE, 3500K COLOR TEMPERATURE, 4000 LUMENS 80 CRI, ALUMINUM DOOR FRAME, SEAL COVER LENS.	MANUFACTURER: DAY BRITE CFI MODEL# K1-22-40L-835-G-6-VPL-U
CC EM	RECESSED MOUNTED	40 W LED UNV	SAME AS FIXTURE "CC" BUT WIRED TO GENERATOR	MANUFACTURER: DAY BRITE CFI MODEL# K1-22-40L-835-G-6-VPL-U
CC-2	RECESSED MOUNTED	40 W LED UNV	1'X4' LED TYPE FIXTURE, 3500K COLOR TEMPERATURE, 4000 LUMENS 80 CRI, ALUMINUM DOOR FRAME, SEAL LOUVER LENS.	MANUFACTURER: DAY BRITE CFI MODEL# K1-14-40L-835-G-6-VPL-U
CC-2 EM	RECESSED MOUNTED	40 W LED UNV	SAME AS FIXTURE "CC-2" BUT WIRED TO GENERATOR	MANUFACTURER: DAY BRITE CFI MODEL# K1-14-40L-835-G-6-VPL-U
DD	RECESSED MOUNTED	8 W LED UNV	1'X4' LED TYPE FIXTURE, 3000K COLOR TEMPERATURE, SINGLE CIRCUIT, TEXTURED MATTE WHITE, TRIM COLOR SATIN, ACRYLIC LENS, 0-10V DIMMING	MANUFACTURER: PRUDENTIAL LIGHTING MODEL# P33-LED3-MO-4-TMW-SAL-D1-SC-UNV-X1-DM01
DD EM	RECESSED MOUNTED	8 W LED UNV	SAME AS FIXTURE "DD" BUT WIRED TO GENERATOR	MANUFACTURER: PRUDENTIAL LIGHTING MODEL# P33-LED3-MO-4-TMW-SAL-D1-SC-UNV-X1-DM01
EE	RECESSED MOUNTED	24 W LED UNV	2'X2' LED TYPE FIXTURE, 3000 LUMENS, 80 CRI, 3000K LUMENS, PERFORATED DIFFUSER, 0-10V DIMMING	MANUFACTURER: DAYBRITE MODEL# 2-FFX-G-30L-830-2-DSPF-UNV-DIM
EE EM	RECESSED MOUNTED	24 W LED UNV	SAME AS FIXTURE "EE" BUT WIRED TO GENERATOR	MANUFACTURER: DAYBRITE MODEL# 2-FFX-G-30L-830-2-DSPF-UNV-DIM
EE-1	RECESSED MOUNTED	34 W LED UNV	2'X2' LED TYPE FIXTURE, 3600 LUMENS, 80 CRI, 3000K LUMENS, PERFORATED DIFFUSER, 0-10V DIMMING	MANUFACTURER: DAYBRITE MODEL# 2-FFX-G-38L-830-2-DSPF-UNV-DIM
EE-1 EM	RECESSED MOUNTED	34 W LED UNV	SAME AS FIXTURE "EE" BUT WIRED TO GENERATOR	MANUFACTURER: DAYBRITE MODEL# 2-FFX-G-38L-830-2-DSPF-UNV-DIM
FF	RECESSED MOUNTED	29 W LED UNV	2'x4' LED TYPE FIXTURE, 3800 LUMENS, 80 CRI, 3000K LUMENS, SMOOTH DIFFUSER, 0-10V DIMMING.	MANUFACTURER: DAYBRITE CFI MODEL# 2-FP2-38L-835-4-DS-UNV-DIM
FF EM	RECESSED MOUNTED	29 W LED UNV	SAME AS FIXTURE "FF" BUT WIRED TO GENERATOR	MANUFACTURER: DAYBRITE CFI MODEL# 2-FP2-38L-835-4-DS-UNV-DIM
GG	PENDENT MOUNTED	12 W LED UNV	9" PENDENT MOUNTED DECORATIVE LED FIXTURE, 3000K COLOR TEMPERATURE, 90 CRI, MEDIUM OUTPUT, TOP GLOW FROSTED UP LIGHTING, SINGLE CIRCUIT, 48" STEM/CORD, 0-10V DIMMING	MANUFACTURER: PRUDENTIAL LTG MODEL# SDP-9-MO-TG1-LGNA-YSL-UNV-STC48 -EBCP1G-YSL-XTF-DM01
GG EM	PENDENT MOUNTED	12 W LED UNV	SAME AS FIXTURE "GG" BUT WIRED TO GENERATOR	MANUFACTURER: PRUDENTIAL LTG MODEL# SDP-9-MO-TG1-LGNA-YSL-UNV-STC48 -EBCP1G-YSL-XTF-DM01
A	RECESSED MOUNTED	20 W LED UNV	6" ROUND LED TYPE DOWNLIGHTING, 2000 LUMENS, 3000K COLOR TEMPERATURE, 80 CRI, BAFFLED DOWNLIGHTING, WHITE FINISH, 0-10V DIMMING	MANUFACTURER: LIGHTOLIER MODEL# L6R-20-A-Z10-U-VA-L6R-20-8-30-VA-L6R-B-W
A EM	RECESSED MOUNTED	20 W LED UNV	SAME AS FIXTURE "A" BUT WIRED TO GENERATOR	MANUFACTURER: LIGHTOLIER MODEL# L6R-20-A-Z10-U-VA-L6R-20-8-30-VA-L6R-B-W
A-3	RECESSED MOUNTED	10 W LED UNV	2" ROUND RECESSED DECORATIVE DOWNLIGHTING, LED TYPE, 600 LUMENS, 90 CRI, 3000K COLOR TEMPERATURE, 0-10V DIMMING, 2" ROUND TRIM, ADJUSTABLE ACCENT, WHITE FINISH.	MANUFACTURER: LIGHTOLIER MODEL# C2R-A-06-9-30-SP-UPZU-C2R-A-WT
A-3 EM	RECESSED MOUNTED	10 W LED UNV	SAME AS FIXTURE "A-3" BUT WIRED TO GENERATOR	MANUFACTURER: LIGHTOLIER MODEL# C2R-A-06-9-30-SP-UPZU-C2R-A-WT
A-4	RECESSED MOUNTED	9 W LED UNV	3" ROUND RECESSED DOWNLIGHT, 80 CRI, 3000K COLOR TEMPERATURE, FLOOD BEAM, FLOOD TRIM, SHOWER TIGHT, WHITE FINISH, HARD WHITE FLANGE.	MANUFACTURER: LIGHTOLIER MODEL# L3-A-E-U-L3-08-8-30-F-L3-R-S-W-W
A-4 EM	RECESSED MOUNTED	9 W LED UNV	SAME AS FIXTURE "A-4" BUT WIRED TO GENERATOR	MANUFACTURER: LIGHTOLIER MODEL# L3-A-E-U-L3-08-8-30-F-L3-R-S-W-W
A-5	RECESSED MOUNTED	16 W LED UNV	4" DOWN LED TYPE FIXTURE, 1500 LUMENS, 80 CRI, 3000K COLOR TEMPERATURE, MEDIUM BEAM, 0-10V DIMMING, WHITE FINISH.	MANUFACTURER: LIGHTOLIER MODEL# 4R-N-CAL-15-8-30-M-Z10-U-C4-R-DL-WH
A-5 EM	RECESSED MOUNTED	16 W LED UNV	SAME AS FIXTURE "A-5" BUT WIRED TO GENERATOR	MANUFACTURER: LIGHTOLIER MODEL# 4R-N-CAL-15-8-30-M-Z10-U-C4-R-DL-WH
A-6	RECESSED MOUNTED	14 W LED UNV	6" DOWN LED TYPE FLAT DOWNLIGHT, 900 LUMENS, 3000K COLOR TEMPERATURE, 0-10V DIMMING, WHITE FINISH.	MANUFACTURER: LIGHTOLIER MODEL# FD-6R-3000K-FD-6NCP
A-6 EM	RECESSED MOUNTED	14 W LED UNV	SAME AS FIXTURE "A-6" BUT WIRED TO GENERATOR	MANUFACTURER: LIGHTOLIER MODEL# FD-6R-3000K-FD-6NCP
B	RECESSED MOUNTED	15 W LED UNV	4" SQUARE LED TYPE DOWNLIGHTING, 1500 LUMENS, 3000K COLOR TEMPERATURE, 80 CRI, WHITE MATTE FINISH, DOWNLIGHTING, 0-10V DIMMING	MANUFACTURER: LIGHTOLIER MODEL# 4-S-N-P4S-DL-15-830-WH-Z10-U
B EM	RECESSED MOUNTED	15 W LED UNV	SAME AS FIXTURE "B" BUT WIRED TO GENERATOR	MANUFACTURER: LIGHTOLIER MODEL# 4-S-N-P4S-DL-15-830-WH-Z10-U
B-1	RECESSED MOUNTED	21 W LED UNV	4" SQUARE LED TYPE DOWNLIGHTING, 2000 LUMENS, 3000K COLOR TEMPERATURE, 80 CRI, WHITE MATTE FINISH, DOWNLIGHTING, 0-10V DIMMING	MANUFACTURER: LIGHTOLIER MODEL# 4-S-N-P4S-DL-20-830-WH-Z10-U
B-1 EM	RECESSED MOUNTED	21 W LED UNV	SAME AS FIXTURE "B-1" BUT WIRED TO GENERATOR	MANUFACTURER: LIGHTOLIER MODEL# 4-S-N-P4S-DL-20-830-WH-Z10-U
B-2	RECESSED MOUNTED	15 W LED UNV	6" SQUARE LED TYPE RECESSED SQUARE LIGHT, 80 CRI, 3000K COLOR TEMPERATURE, 1000 LUMENS BLACK FINISH, 0-10V.	MANUFACTURER: LIGHTOLIER MODEL# S6S-8-30K-1-0-BK-Z10U

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CONSTRUCTION DOCUMENTS

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Professional Seal

11/01/2021

ISSUED TO BID

07/14/2021

CONSTRUCTION DOCS-NYS&D

12/15/2020

DESIGN DEVELOPMENT

08/31/2020

SCHEMATIC DESIGN

No.

Date

Issue

Sheet Title

LIGHTING SCHEDULES

Job No.

2019-1026

Date

8/31/20

Scale

AS NOTED

Drawn / Checked

BGA / BGA

Sheet Number

E601

NEW ELECTRICAL PANEL SCHEDULE																								
PANEL: SB-EM-ELEV 208Y/120, 3 PHASE, 4 WIRE 10 .000MIN A.I.C. SYM NEUTRAL: 100%					MOUNTING: SURFACE (NEMA 1) FLUSH IN MCC			X	MAIN LUGS ONLY DOUBLE LUGS FEED THRU LUG SHUNT TRIP MAIN			MAIN C BKR- 225/3P MAIN BUS - 225A			GROUND BUS: X ISOLATED GROUND BUS: TVSS: NUMBER OF POLES: 30									
CKT No.	TRIP (AMP)	LOAD	WIRE	CND.	KVA / PHASE (IN.) A B C				CND.	KVA / PHASE (IN.) A B C				WIRE	LOAD	TRIP (AMP)	CKT No.							
1	20	SUMP PUMP	2#12+1#12G	3/4	0.50					0.50				3/4	2#12+1#12G	PIT RECEP	20	2						
3	3	ELEV 1 DISC	3#2+1#8G	11/4				5.20			0.50			3/4	2#12+1#12G	ELEV LIGHT	20	4						
5	7							5.20				0.50			3/4	2#12+1#12G	RECEP	20	6					
9	2									0.10						3/4	2#12+1#12G	EMR 05	20	8				
11	20	DS-B	2#12+1#12G	3/4					0.10					-	-	SPARE	20	10						
13	20	SPARE	-	-										-	-	SPARE	20	12						
15	20	SPARE	-	-										-	-	SPARE	20	14						
17	20	SPARE	-	-										-	-	SPARE	20	16						
19	20	SPARE	-	-										-	-	SPARE	20	18						
21	20	SPARE	-	-										-	-	SPARE	20	20						
23	20	SPARE	-	-										-	-	SPARE	20	22						
25	20	SPARE	-	-										-	-	SPARE	20	24						
27	20	SPARE	-	-										-	-	SPARE	20	26						
29	20	SPARE	-	-										-	-	SPARE	20	28						
29	20	SPARE	-	-										-	-	SPARE	20	30						
SUBTOTALS								5.70	5.30	5.30		1.00	0.50	0.50	SUBTOTALS									
TOTAL LOADS								6.7	KVA	PHASE A		LIGHTING:					0.50	KVA						
								5.8	KVA	PHASE B		RECEPTACLE:					0.00	KVA						
								5.8	KVA	PHASE C		KITCHEN:					0.00	KVA						
TOTAL CONN. LOAD								18.3	KVA	51.0	A	MOTOR:					12.10	KVA						
TOTAL DEMAND LOAD								18.3	KVA	51.0	A	POWER:					5.70	KVA						
												TOTAL:					18.30	KVA						

* PROVIDE PROPER SIZE FRAME TO FIT 3P-100AMB CB

NEW ELECTRICAL PANEL SCHEDULE																								
PNL: MP-1			MOUNTING: SURFACE			X			MAIN LUGS ONLY			MAIN C BKR-			GROUND BUS:			X						
208Y/120, 3 PHASE, 4 WIRE			(NEMA 1)			FLUSH			DOUBLE LUGS			150A/3P			ISOLATED GROUND BUS:									
22 .000MIN A.I.C. SYM						IN MCC			FEED THRU LUG			X			MAIN BUS -			TVSS:						
NEUTRAL: 100%									SHUNT TRIP MAIN			225 A			NUMBER OF POLES:			42						
CKT	TRIP	LOAD	WIRE	CND.	KVA / PHASE			CND.	WIRE	LOAD	TRIP	CKT												
No.	(AMP)				(IN.)	A	B	C		A	B	C	(IN.)		(AMP)	No.								
1	20	CH-1	2#12+1#12G	3/4	0.20					0.20						2								
3	20	SECURITY WINDOW	2#12+1#12G	3/4		0.50										4								
5	2	FC UNIT	2#12+1#12G	3/4	0.20				0.20	0.20	3/4	2#12+1#12G	FC UNIT			2								
7	20																					2		
9	2	FC UNIT	2#12+1#12G	3/4		0.20			0.20	0.50	3/4	2#12+1#12G	FSD			2								
11	20																					10		
13	20	FC UNIT	2#12+1#12G	3/4	0.20				0.20	4.00	3/4	2#8+1#10G	ECH-A			2								
15	20																					14		
17	2	ECH-B	2#8+1#10G	3/4		0.20			2.50	4.00	3/4	2#8+1#10G	ECH-B			2								
19	40																					16		
21	20	SPARE	-	-						2.50	3/4	2#8+1#10G	SPARE			40								
23	20	SPARE	-	-								-	-	SPARE		20								
25	20	SPARE	-	-								-	-	SPARE		24								
27	20	SPARE	-	-								-	-	SPARE		20								
29	20	SPARE	-	-								-	-	SPARE		26								
31	20	SPARE	-	-								-	-	SPARE		20								
33	20	SPARE	-	-								-	-	SPARE		28								
35	20	SPARE	-	-								-	-	SPARE		20								
37	20	SPARE	-	-								-	-	SPARE		34								
39	20	SPARE	-	-								-	-	SPARE		36								
41	20	SPARE	-	-								-	-	SPARE		38								
SUBTOTALS						3.10	0.90	2.90		4.40	3.20	6.70		SUBTOTALS										
TOTAL LOADS						7.5	KVA	PHASE A		LIGHTING:					0.00	KVA								
						4.1	KVA	PHASE B		RECEPTACLE:					0.00	KVA								
						9.6	KVA	PHASE C		KITCHEN:					0.00	KVA								
TOTAL CONN. LOAD						21.2	KVA	59.0	A	MOTOR:					21.20	KVA								
TOTAL DEMAND LOAD						21.2	KVA	59.0	A	POWER:					0.00	KVA								
										TOTAL:					21.20	KVA								

NEW ELECTRICAL PANEL SCHEDULE																								
PNL: MP-GYM		MOUNTING: SURFACE		X	MAIN LUGS ONLY					MAIN C BKR-		GROUND BUS: X												
208Y/120, 3 PHASE, 4 WIRE		(NEMA 1)		FLUSH	DOUBLE LUGS					400A/3P		ISOLATED GROUND BUS:												
22 .000MIN A.I.C. SYM					FEED THRU LUG					MAIN BUS -		TVSS:												
NEUTRAL: 100%					SHUNT TRIP MAIN					600 A		NUMBER OF POLES: 84												
CKT No.	TRIP (AMP)	LOAD	WIRE	CND.	KVA / PHASE					CND.	WIRE	LOAD	TRIP (AMP)	CKT No.										
					(IN.)	A	B	C			(IN.)													
1	20	COND PUMP	2#12+1#12G	3/4					0.50	3/4	2#12+1#12G	EMR RECEP	20	2										
3	3					8.60			0.30	3/4	2#12+1#12G	ELEV CAR LIGHT	20	4										
5	7	ELV DISC	3#1+1#6G	1/12				8.60	0.30	3/4	2#12+1#12G	PIT RECEP	20	6										
7	125A					8.60			0.50	3/4	2#12+1#12G	LIGHTING	20	8										
9	20	CORR RECEP	2#12+1#12G	3/4			0.54		0.50	3/4	2#12+1#12G	CORR RECEP	20	10										
11	20	RECEP	2#12+1#12G	3/4					0.50	3/4	2#12+1#12G	UH	20	12										
13	20	LOCKER ALT	2#12+1#12G	3/4	0.50				0.30	3/4	2#12+1#12G	GB04 ALT	20	14										
15	20	GB03	2#12+1#12G	3/4		0.50				0.40	3/4	2#12+1#12G	GB05	20	16									
17	20	CORR RECEP	2#12+1#12G	3/4				0.54	0.50	0.40	3/4	2#12+1#12G	LOCKER BR ALT	20	18									
19	20	LOCKER BR ALT	2#12+1#12G	3/4	0.54				0.50	3/4	2#12+1#12G	STORAGE	20	20										
21	20	JAN RECEP	2#12+1#12G	3/4		0.20				-	-		20	22										
23	2	FC UNITS	2#12+1#12G	3/4			0.30			1.80	3/4	3#10+1#10G	ERU-8	3	24									
25	2						3.60			1.80				25	26									
27	2	FC UNITS	2#12+1#12G	3/4				0.30		0.30	3/4	2#12+1#12G	DH	20	30									
29	20					0.30			2.90				3	32										
31	2	HP-B	2#8+1#10G	3/4	0.30				2.90	3/4	3#8+1#10G	HP-15	40	34										
33	20	EF-11	2#12+1#12G	3/4			0.30			2.90			36	36										
35	20	SPARE	-	-					0.30	3/4	2#12+1#12G	FSD	20	38										
37	20	SPARE	-	-						-	-	SPARE	20	40										
39	20	ICE MAKER	2#12+1#12G	3/4						0.30	3/4	2#12+1#12G	DS-B	20	42									
41	20	SPARE	2#12+1#12G	3/4					0.30				20	44										
43	20	SPARE	2#12+1#12G	3/4					2.50				2	46										
45	2	ECHE-A	2#8+1#10G	3/4	4.00				2.50	3/4	2#8+1#10G	ECH-B	40	48										
47	50					1.30			0.30		-	SPARE	20	50										
51	3	ACN-B	3#10+1#10G	3/4			1.30		2.50	1.30		SPARE	20	52										
53	30					1.30			1.30	3/4	3#10+1#10G	ACN-B	3	54										
55	20	DOOR CONTROL	2#12+1#12G	3/4		0.20			1.30				56	56										
57	20	EF-12	2#12+1#12G	3/4			0.20			0.30	3/4	2#12+1#12G	FC UNITS	2	60									
59	2					0.20			0.30				2	62										
61	20	CTRL PNL	2#12+1#12G	3/4		0.20				-	-	SPARE	20	64										
63	20	SPARE	-	-						-	-	SPARE	20	66										
65	20	SPARE	-	-						-	-	SPARE	20	68										
67	20	SPARE	-	-						-	-	SPARE	20	70										
69	20	SPARE	-	-						-	-	SPARE	20	72										
71	20	SPARE	-	-						-	-	SPARE	20	74										
73	20	SPARE	-	-						-	-	SPARE	20	76										
75	20	SPARE	-	-						-	-	SPARE	20	78										
77	20	SPARE	-	-						-	-	SPARE	20	80										
79	20	SPARE	-	-						-	-	SPARE	20	82										
81	20	SPARE	-	-						-	-	SPARE	20	84										
83	20	SPARE	-	-						-	-	SPARE	20	86										
SUBTOTALS					###	15.14	###		9.00	###	###	SUBTOTALS												
TOTAL LOADS					24.7	KVA	PHASE A			LIGHTING:			0.00	KVA										
					27.3	KVA	PHASE B			RECEPTACLE:			0.00	KVA										
					26.6	KVA	PHASE C			KITCHEN:			0.00	KVA										
TOTAL CONN. LOAD					78.7	KVA	219.0		A	MOTOR:			78.72	KVA										
TOTAL DEMAND LOAD					78.7	KVA	219.0		A	POWER:			0.00	KVA										
										TOTAL:			78.72	KVA										

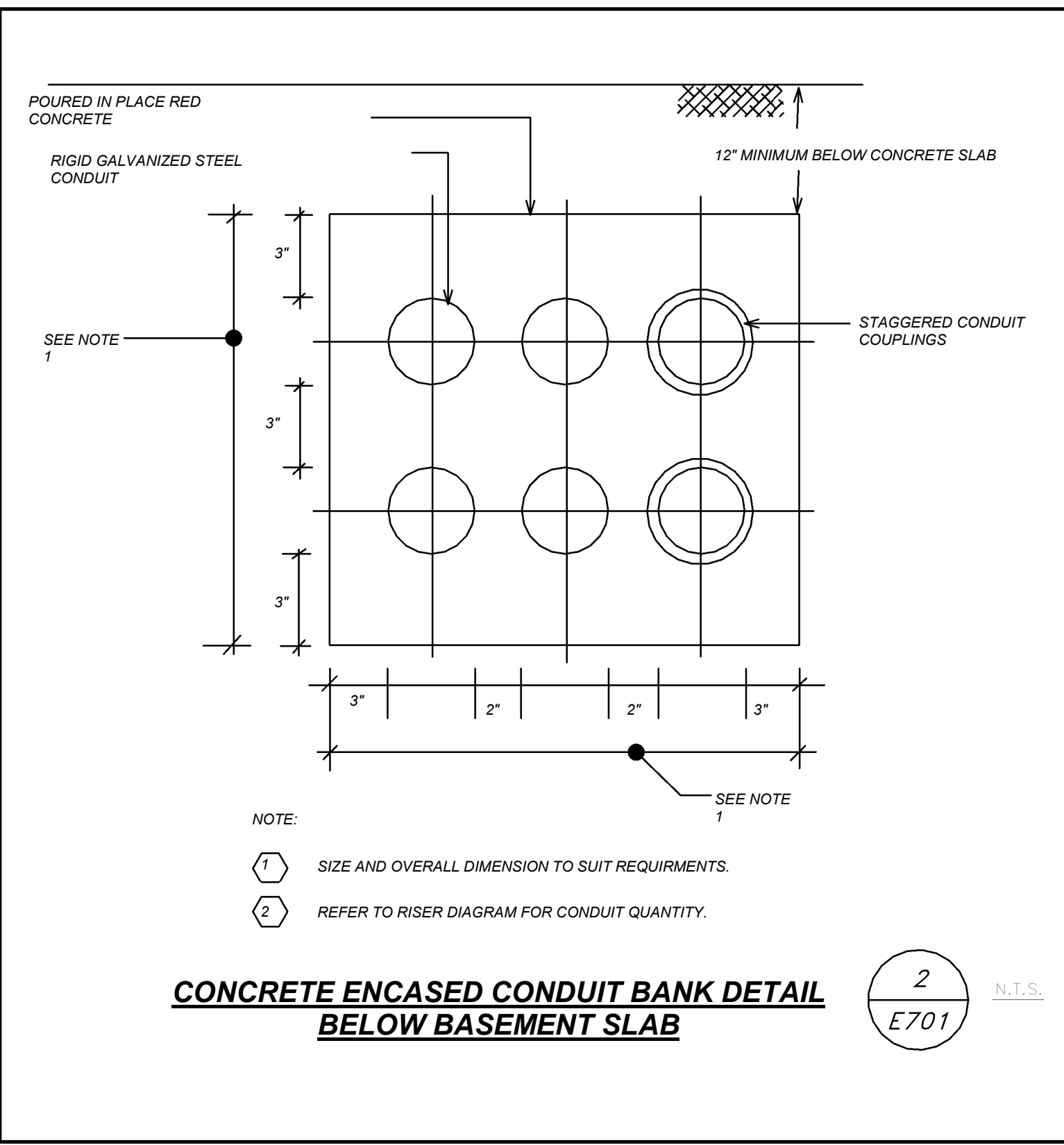
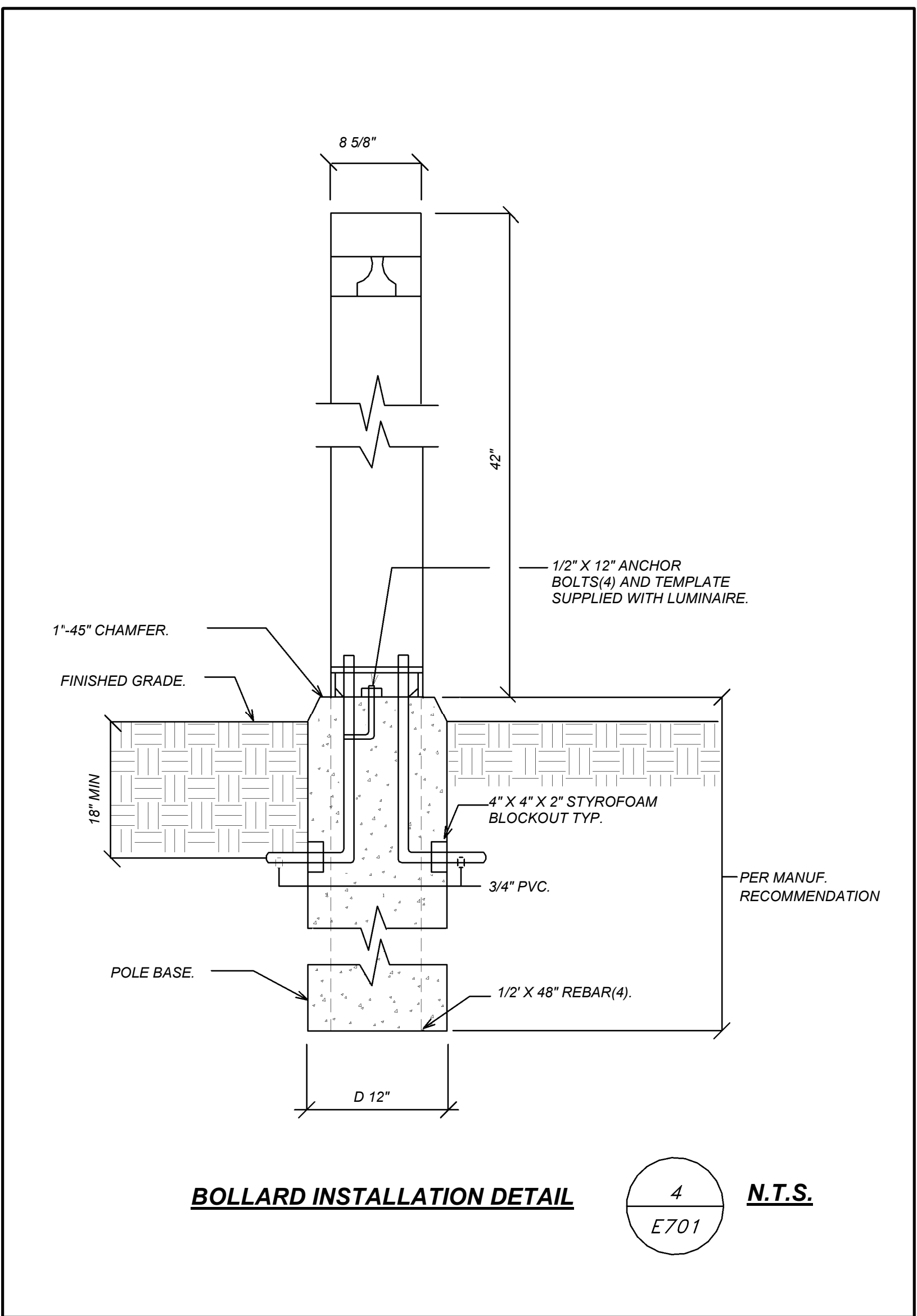
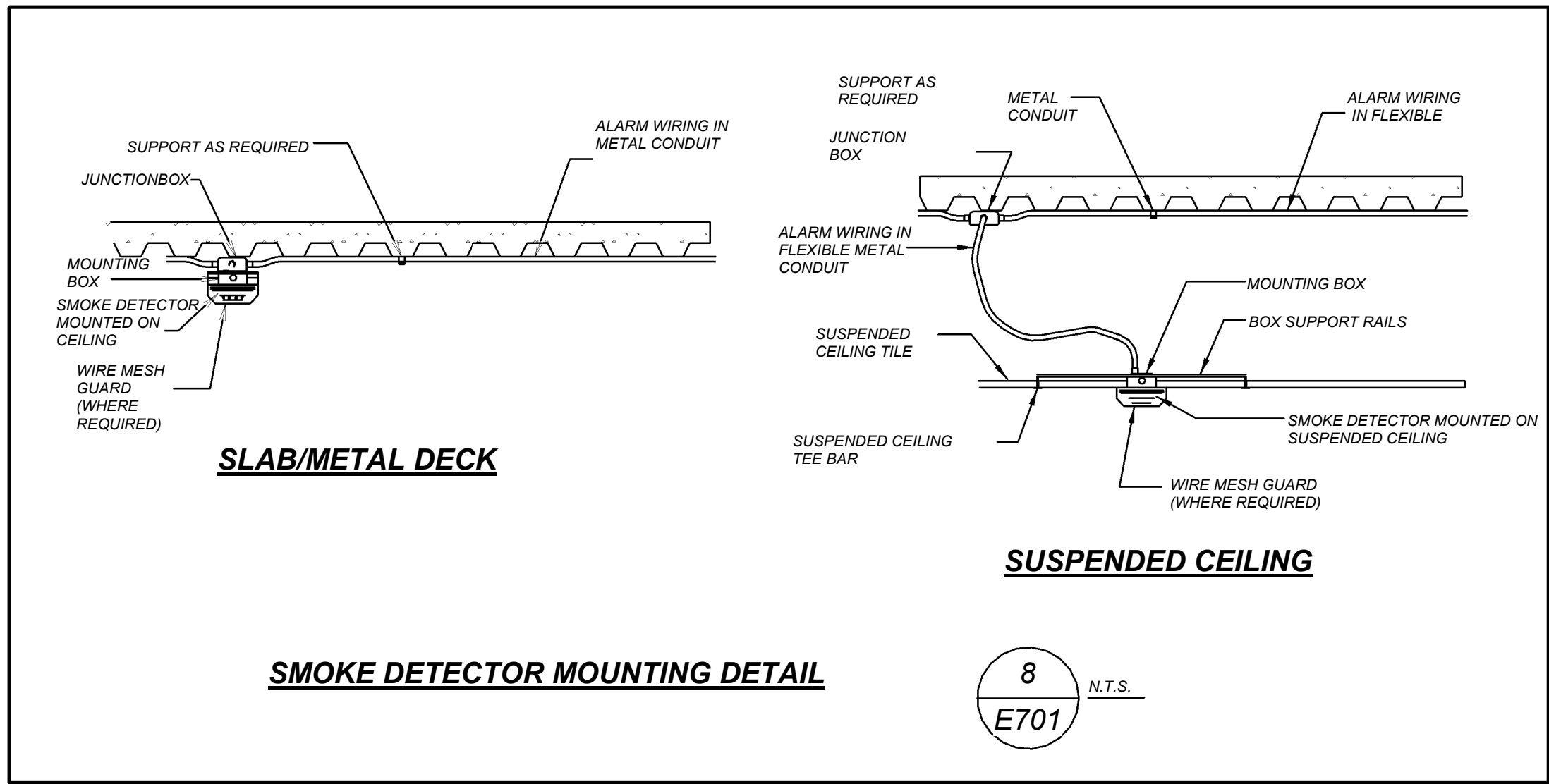
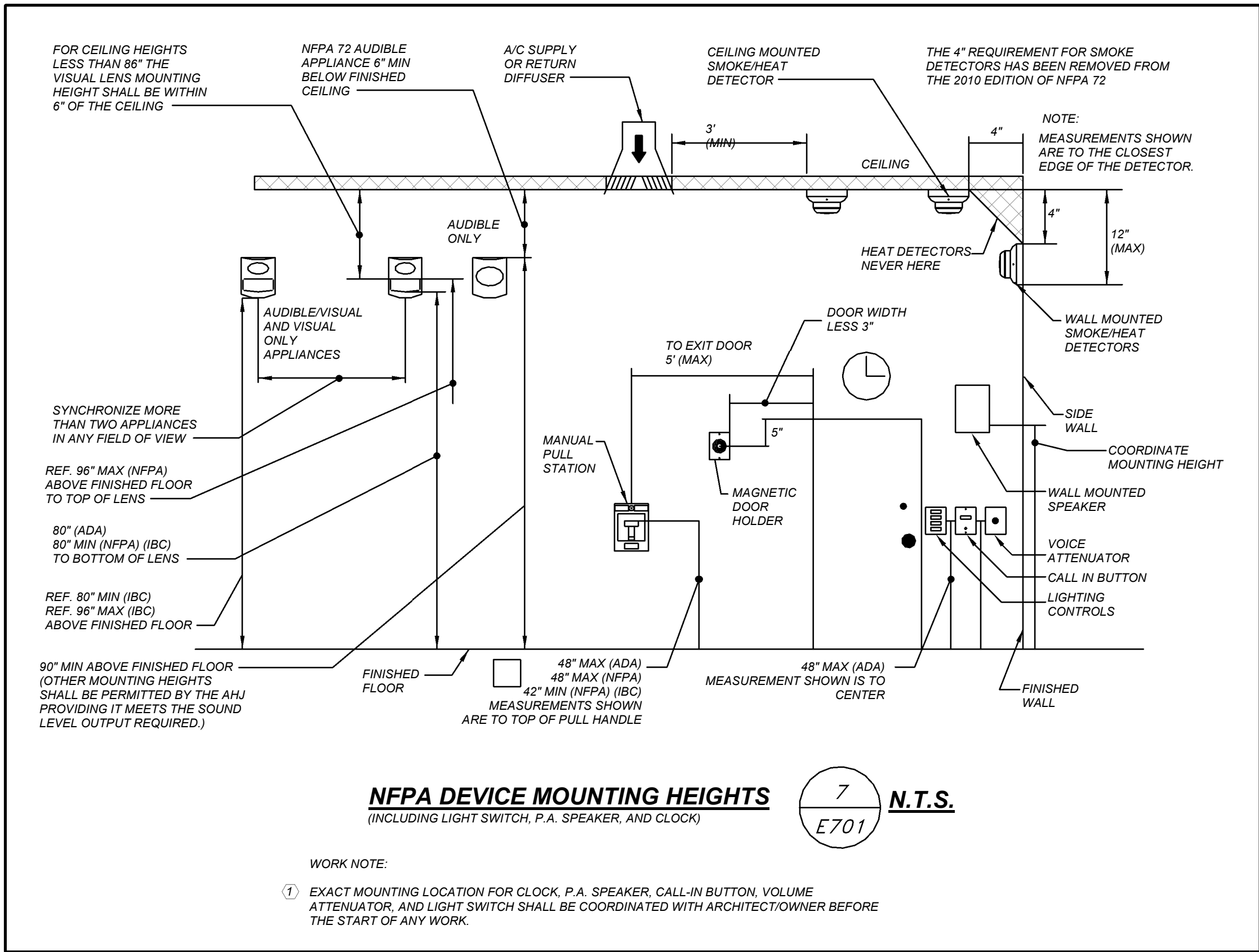
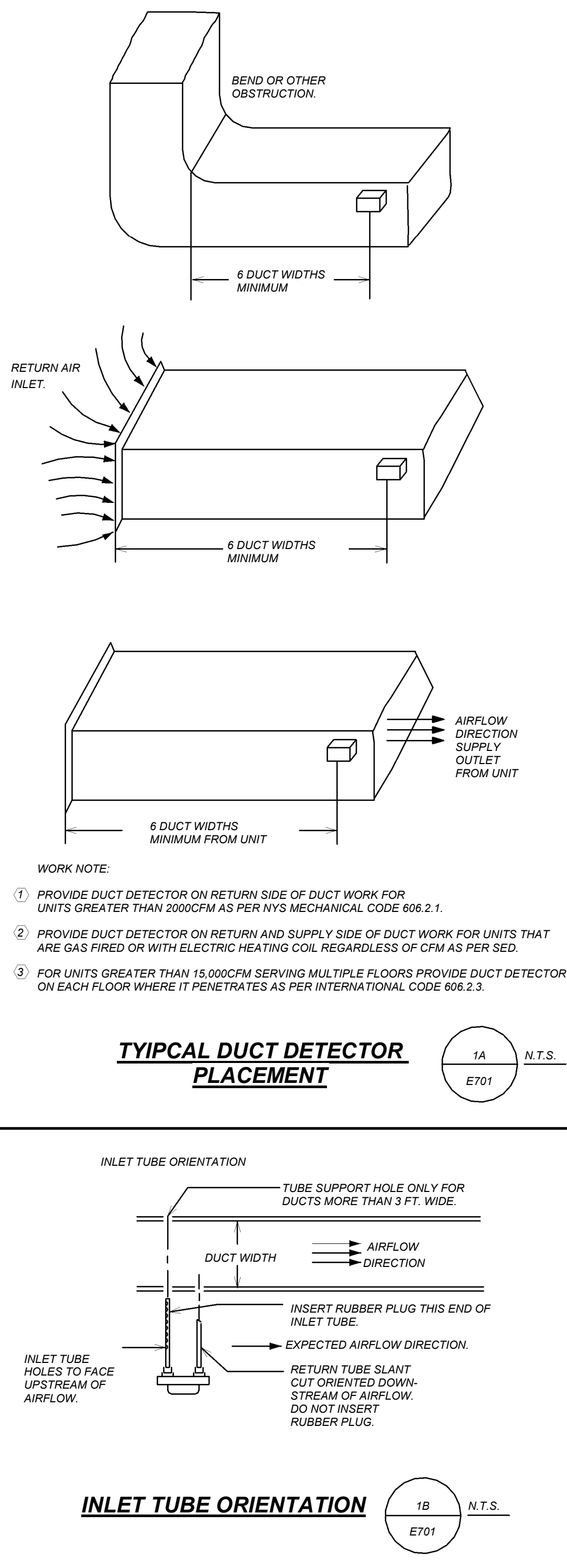
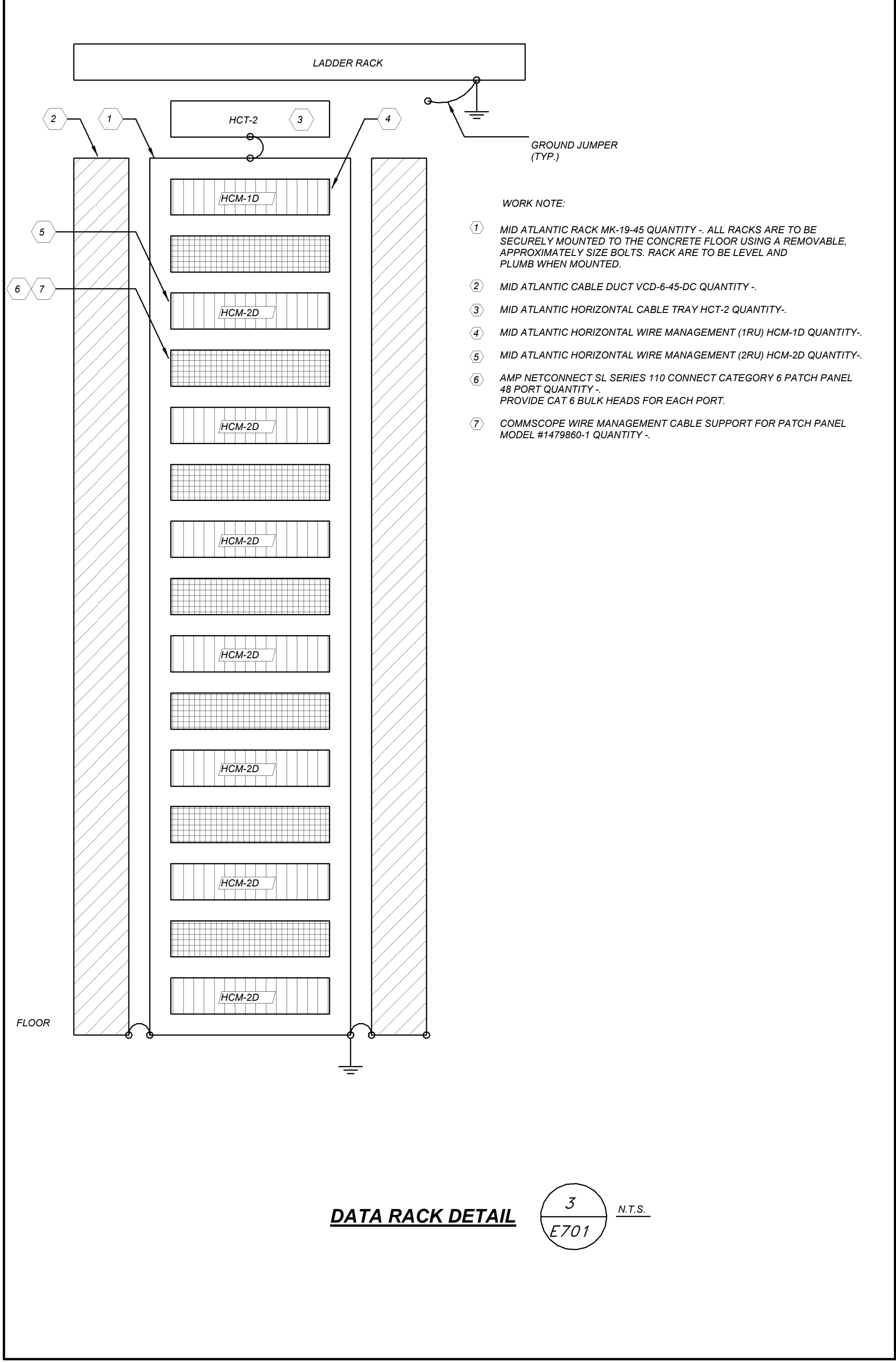
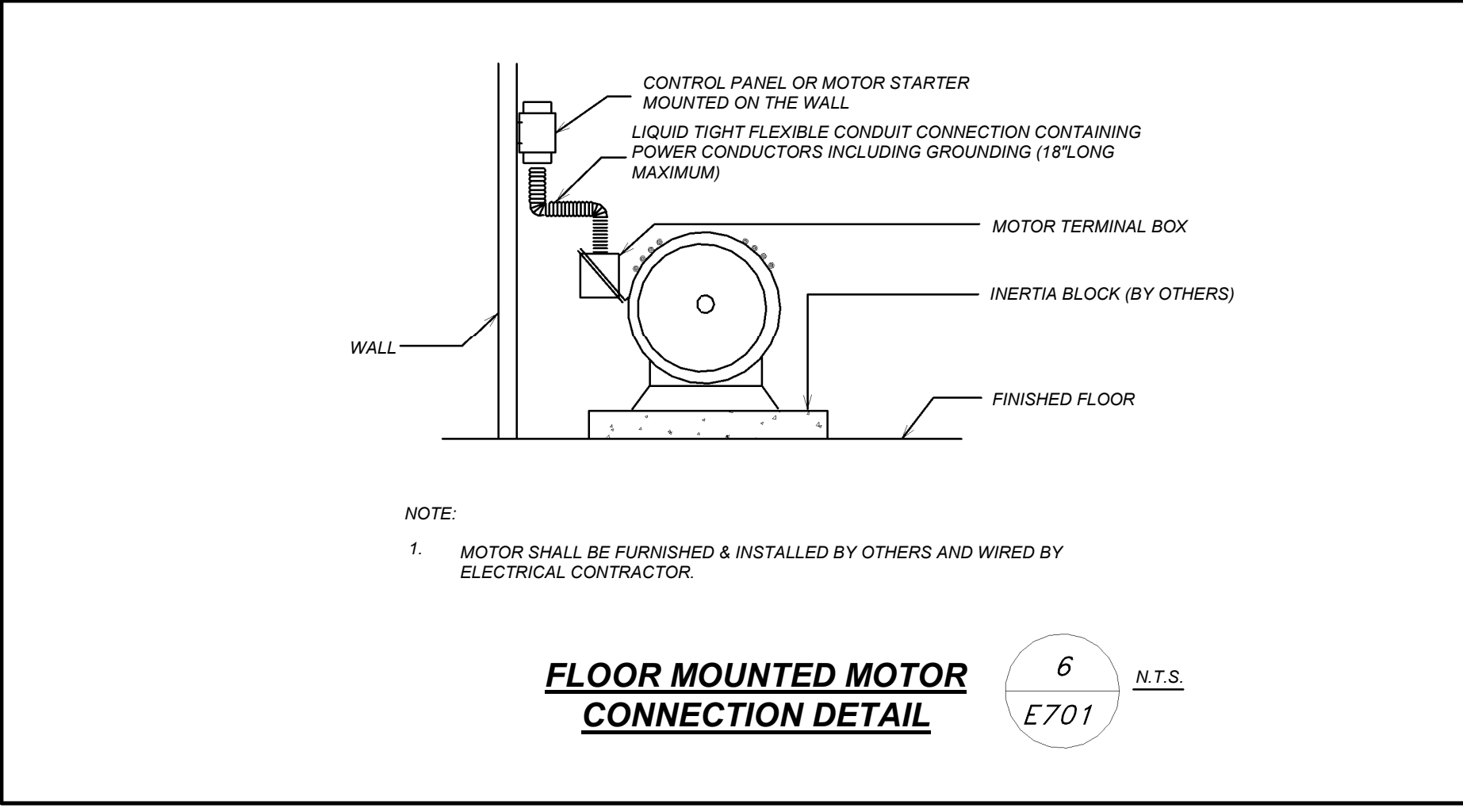
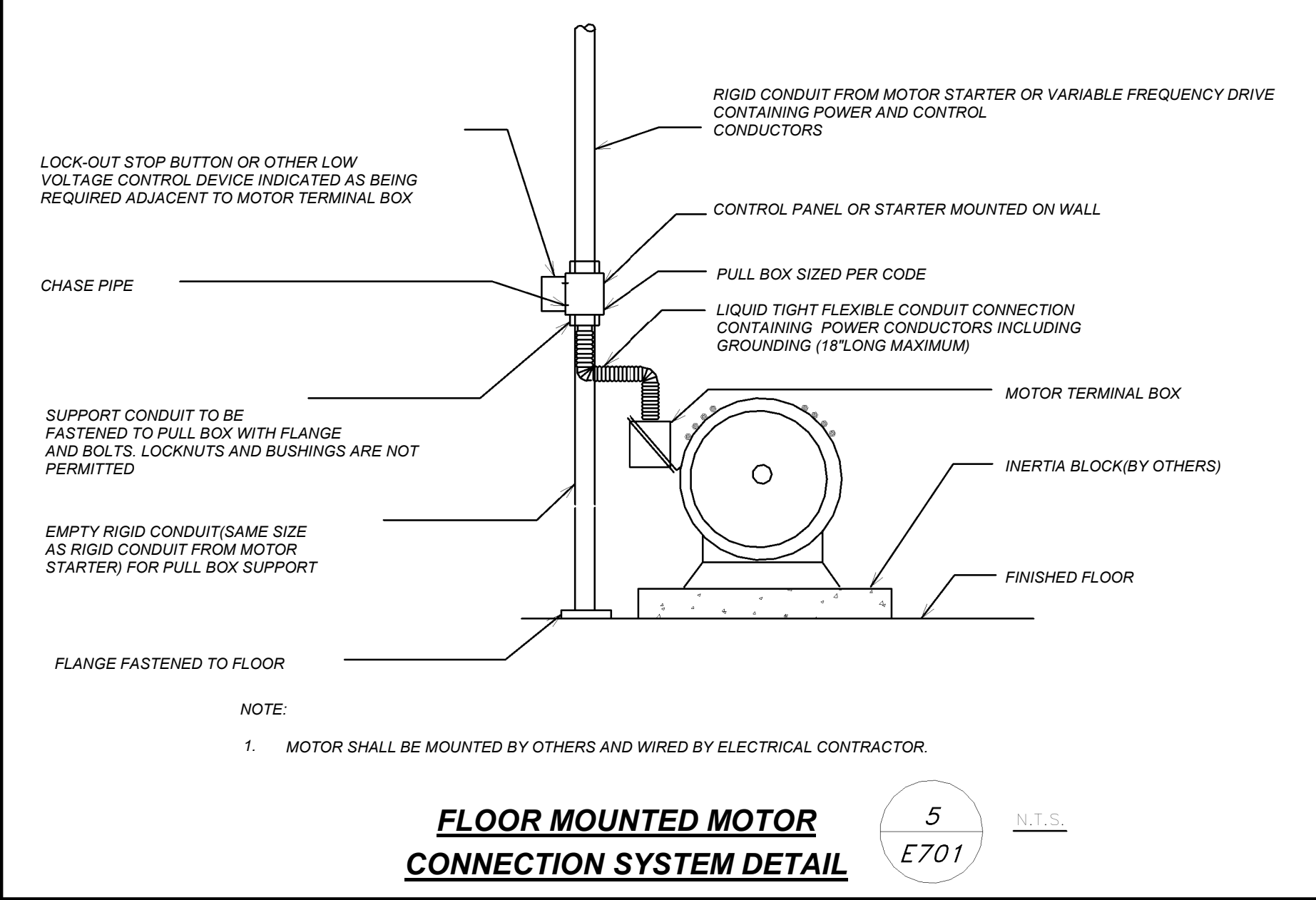
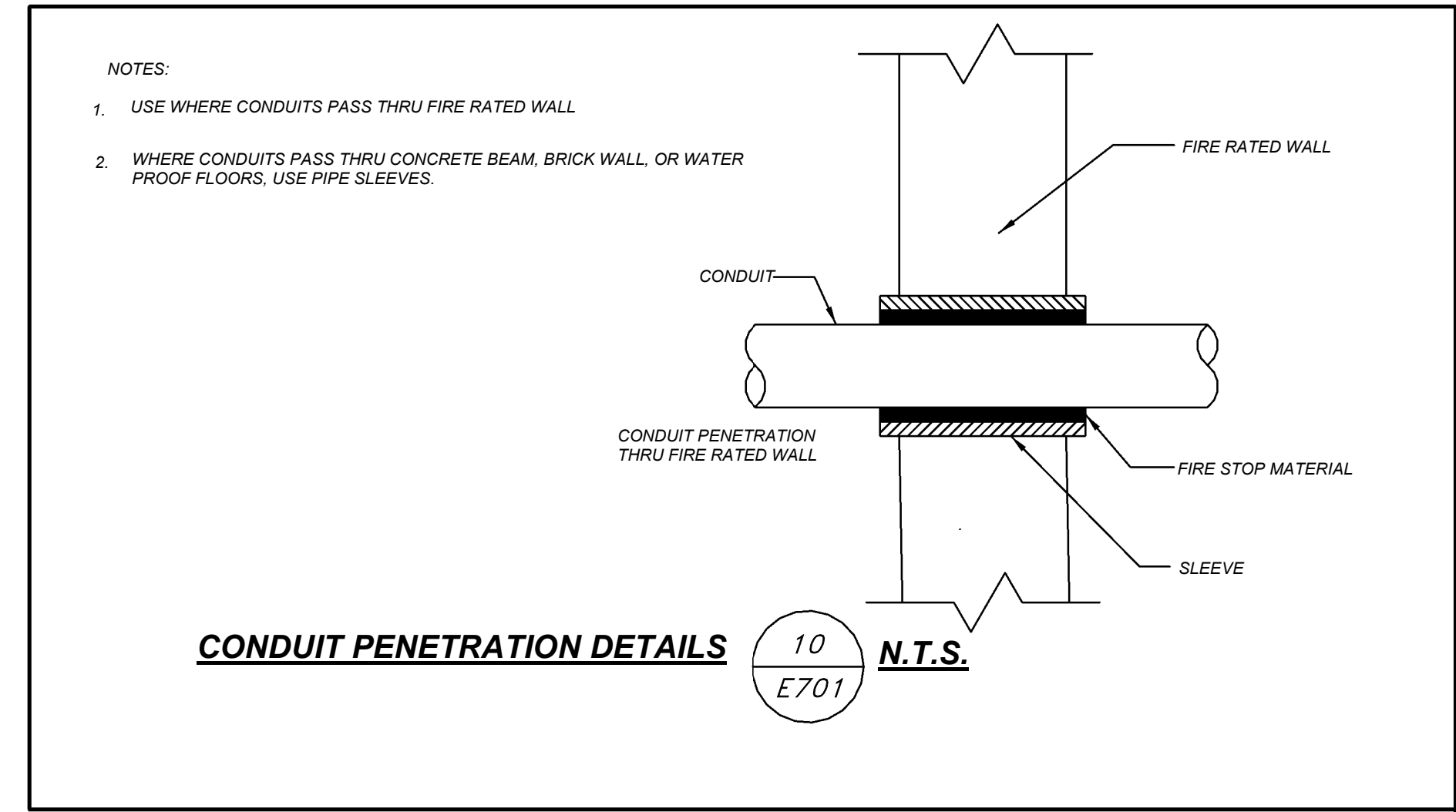
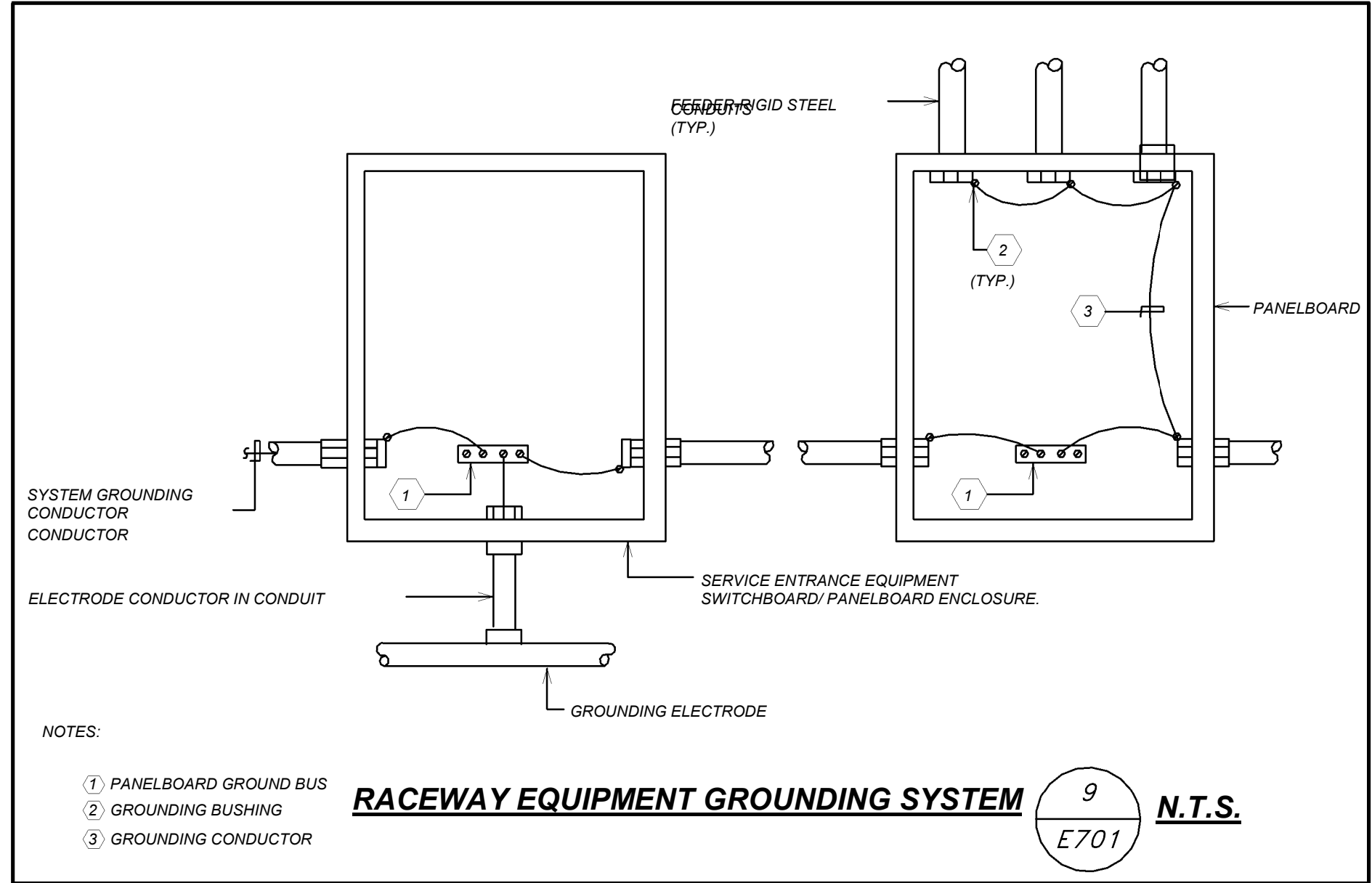
NEW		ELECTRICAL PANEL SCHEDULE																
PNL: PP-1		MOUNTING: SURFACE		X		MAIN LUGS ONLY		MAIN C BKR-		GROUND BUS: X								
208Y/120, 3 PHASE, 4 WIRE		(NEMA 1)		FLUSH		DOUBLE LUGS		225A/3P		ISOLATED GROUND BUS:								
22 .000MIN A.I.C. SYM		IN MCC		FEED THRU LUG		MAIN BUS -		TVSS:										
NEUTRAL: 100%				SHUNT TRIP MAIN		225 A		NUMBER OF POLES:		84								
CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE	A	B	C	KVA / PHASE CND.	A	B	C	WIRE	LOAD	TRIP (AMP)	CKT No.		
1	20	LIGHTING	2#12+1#12G	3/4	1.20				1.20				3/4	2#12+1#12G	LIGHTING	20	2	
3	20	104 SB	2#12+1#12G	3/4	0.50				0.30	3/4	2#12+1#12G		3/4	2#12+1#12G	AUTO FAUCET	20	4	
5	20	Pie-K 103 SB	2#12+1#12G	3/4		0.50			0.54	3/4	2#12+1#12G		3/4	2#12+1#12G	CORR RECEPT	20	6	
7	20	113 SB	2#12+1#12G	3/4	0.50				0.54	3/4	2#12+1#12G		3/4	2#12+1#12G	CORR RECEPT	20	8	
9	20	112SB	2#12+1#12G	3/4	0.50				0.70	3/4	2#12+1#12G		3/4	2#12+1#12G	LIGHTING	20	10	
11	20	CR RECEPT	2#12+1#12G	3/4				0.54	-	-	-	-	-	-	SPARE	20	12	
13	20	RM 104	2#12+1#12G	3/4	0.90				0.30	3/4	2#12+1#12G		3/4	2#12+1#12G	LIGHTING	20	14	
15	20	RM 105	2#12+1#12G	3/4	0.90				0.90	3/4	2#12+1#12G		3/4	2#12+1#12G	106 RECEPT	20	16	
17	20	MAIN OFF LIGHTS	2#12+1#12G	3/4				0.36		0.54	3/4	2#12+1#12G		3/4	2#12+1#12G	CORR RECEPT	20	18
19	20	112A RECEPT	2#12+1#12G	3/4	0.30				0.90	3/4	2#12+1#12G		3/4	2#12+1#12G	RM 102	20	20	
21	20	MOT SHADES	2#12+1#12G	3/4	0.50				0.50	3/4	2#12+1#12G		3/4	2#12+1#12G	105 DISPLAY	20	22	
23	20	BATHROOM REC	2#12+1#12G	3/4				0.30	0.50	3/4	2#12+1#12G		3/4	2#12+1#12G	DH	20	24	
25	20	BOTTLE FILLER	2#12+1#12G	3/4	0.80				0.30	3/4	2#12+1#12G		3/4	2#12+1#12G	BATHROOM	20	26	
27	20	REFRIGERATOR	2#12+1#12G	3/4	0.50				0.34	3/4	2#12+1#12G		3/4	2#12+1#12G	RECEPT 102	20	28	
29	20	107 RECEPT	2#12+1#12G	3/4				0.72	1.08	3/4	2#12+1#12G		3/4	2#12+1#12G	CAFE RECEPT	20	30	
31	20	DH	2#12+1#12G	3/4	0.50				1.20	3/4	2#12+1#12G		3/4	2#12+1#12G	CAFE RECEPT	20	32	
33	20	MW	2#12+1#12G	3/4	1.00				0.72	3/4	2#12+1#12G		3/4	2#12+1#12G	105 RECEPT	20	34	
35	20	BATHROOM RECEPT	2#12+1#12G	3/4				0.30		0.90	3/4	2#12+1#12G		3/4	2#12+1#12G	RM 113	20	36
37	20	AUTO FAUCET	2#12+1#12G	3/4	0.30				0.90	3/4	2#12+1#12G		3/4	2#12+1#12G	RM 112	20	38	
39	20	BATHROOM RECEPT	2#12+1#12G	3/4	0.30					-	-	-	-	-	SPARE	20	40	
41	20	WATER FOUNT	2#12+1#12G	3/4				0.50		0.50	3/4	2#12+1#12G		3/4	2#12+1#12G	REFRIGERATOR	20	42
43	20	MW	2#12+1#12G	3/4	1.00				1.00	3/4	2#12+1#12G		3/4	2#12+1#12G	COPIER	20	44	
45	20	OFF COPIER	2#12+1#12G	3/4	0.50				0.34	3/4	2#12+1#12G		3/4	2#12+1#12G	102 RECEPT	20	46	
47	20	CAFE DISPLAY	2#12+1#12G	3/4				0.50	1.08	3/4	2#12+1#12G		3/4	2#12+1#12G	CAFE RECEPT	20	48	
49	20	EXT RECEPT	2#12+1#12G	3/4	0.54				0.20	3/4	2#12+1#12G		3/4	2#12+1#12G	DOOR CONTROL	20	50	
51	20	SPARE	-	-	0.00				0.50	3/4	2#12+1#12G		3/4	2#12+1#12G	CORR DISPLAY	20	52	
53	20	CORR DISPLAY	2#12+1#12G	3/4				0.50	-	-	-	-	-	-	SPARE	20	54	
55	20	MS CONTROLLER	2#12+1#12G	3/4	0.50				-	-	-	-	-	-	SPARE	20	56	
57	20	CORR RECEPT	2#12+1#12G	3/4	0.54				0.50	3/4	2#12+1#12G		3/4	2#12+1#12G	COUNTER RECEPT	20	58	
59	20	COUNTER RECEPT	2#12+1#12G	3/4				0.50	-	-	-	-	-	-	SPARE	20	60	
61	20	SPARE	-	-					-	-	-	-	-	-	SPARE	20	62	
63	20	SPARE	-	-					-	-	-	-	-	-	SPARE	20	64	
65	20	SPARE	-	-					-	-	-	-	-	-	SPARE	20	66	
67	20	SPARE	-	-					-	-	-	-	-	-	SPARE	20	68	
69	20	SPARE	-	-					-	-	-	-	-	-	SPARE	20	70	
71	20	SPARE	-	-					-	-	-	-	-	-	SPARE	20	72	
73	20	SPARE	-	-					-	-	-	-	-	-	SPARE	20	74	
75	20	SPARE	-	-					-	-	-	-	-	-	SPARE	20	76	
77	20	SPARE	-	-					-	-	-	-	-	-	SPARE	20	78	
79	20	SPARE	-	-					-	-	-	-	-	-	SPARE	20	80	
81	20	SPARE	-	-					-	-	-	-	-	-	SPARE	20	82	
83	20	SPARE	-	-					-	-	-	-	-	-	SPARE	20	84	
SUBTOTALS					6.54	5.24	4.72		6.54	4.80	5.14		SUBTOTALS					
TOTAL LOADS			13.1 KVA	PHASE A					LIGHTING:			3.76 KVA						
			10.0 KVA	PHASE B					RECEPTACLE:			0.00 KVA						
			9.9 KVA	PHASE C					KITCHEN:			0.00 KVA						
TOTAL CONNN. LOAD			33.0 KVA	91.0 A					MOTOR:			0.00 KVA						
TOTAL DEMAND LOAD			32.8 KVA	91.0 A					POWER:			29.02 KVA						
< Load & Total not equal >																		
		TOTAL: 32.78 KVA																

NEW		ELECTRICAL PANEL SCHEDULE																			
PNL: PP-2		MOUNTING: SURFACE		X		MAIN LUGS ONLY				MAIN C BKR-		GROUND BUS: X									
208Y/120, 3 PHASE, 4 WIRE		(NEMA 1)		FLUSH		DOUBLE LUGS				225A/3P		ISOLATED GROUND BUS:									
22 .000MIN A.I.C. SYM		IN MCC		FEED THRU LUG				MAIN BUS -		TVSS:											
NEUTRAL: 100%		SHUNT TRIP MAIN				225 A		NUMBER OF POLES:				84									
CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE			KVA / PHASE CND.			WIRE	LOAD	TRIP (AMP)	CKT No.							
A	B	C	D	E	F	G	H	I	J	K	L	M	N								
1	20	DH	2#12+1#12G	3/4	0.50				0.30		3/4	2#12+1#12G	DH	20	2						
3	20	204 DISP	2#12+1#12G	3/4		0.50				0.90	3/4	2#12+1#12G	204	20	4						
5	20	CR204	2#12+1#12G	3/4			0.54				3/4	2#12+1#12G	LIB	20	6						
7	20	CR205	2#12+1#12G	3/4	0.54				0.54		3/4	2#12+1#12G	RECEP	20	8						
9	20	CR206	2#12+1#12G	3/4			0.54			0.90	3/4	2#12+1#12G	205	20	10						
11	20	CR206	2#12+1#12G	3/4			0.54	0.54			3/4	2#12+1#12G	CORR DISP	20	12						
13	20	CR202	2#12+1#12G	3/4	0.54						3/4	2#12+1#12G	CORR RECEP	20	14						
15	20	CORR RECEP	2#12+1#12G	3/4			0.54				3/4	2#12+1#12G	203 DISP	20	16						
17	20	BATHROOM 202	2#12+1#12G	3/4			0.30			0.50	3/4	2#12+1#12G	CORR DISP	20	18						
19	20	CR201 SB	2#12+1#12G	3/4	0.50				0.90	3/4	2#12+1#12G	202	20	20	20						
21	20	LIB RECEP	2#12+1#12G	3/4	0.34					0.90	3/4	2#12+1#12G	201	20	22						
23	20	SP EDU 220 SB	2#12+1#12G	3/4			0.50			0.30	3/4	2#12+1#12G	FSD	20	24						
25	20	BATHROOM	2#12+1#12G	3/4	0.30				0.54		3/4	2#12+1#12G	FLOOR BOX	20	26						
27	20	SP EDU 219	2#12+1#12G	3/4			0.90			0.54	3/4	2#12+1#12G	RECEP	20	28						
29	20	C217 SB	2#12+1#12G	3/4			0.50			0.30	3/4	2#12+1#12G	BATHROOM	20	30						
31	20	JANITOR	2#12+1#12G	3/4	0.34				0.90		3/4	2#12+1#12G	218	20	32						
33	20	SP EDU	2#12+1#12G	3/4			0.34	0.34		0.50	3/4	2#12+1#12G	LIB STUD DESK	20	34						
35	20	CR210 SB	2#12+1#12G	3/4			0.50	0.50		0.90	3/4	2#12+1#12G	RM 217	20	36						
37	20	LIB STUD DESK	2#12+1#12G	3/4	0.50				0.50	3/4	2#12+1#12G	218 SB	20	38							
39	20	CORR RECEP	2#12+1#12G	3/4						0.50	3/4	2#12+1#12G	211 SB	20	40						
41	20	CORR RECEP	2#12+1#12G	3/4			0.54			0.50	3/4	2#12+1#12G	LIB DISPLAY	20	42						
43	20	LIB 215	2#12+1#12G	3/4	0.54				0.54		3/4	2#12+1#12G	MK SPACE	20	44						
45	20	CORR RECEP	2#12+1#12G	3/4			0.50			0.30	3/4	2#12+1#12G	BATHROOM	20	46						
47	20	BATHROOM	2#12+1#12G	3/4			0.30			0.30	3/4	2#12+1#12G	BATHROOM	20	48						
49	20	215 LIGHT	2#12+1#12G	3/4	1.20				0.50		3/4	2#12+1#12G	WATER FT	20	50						
51	20	210 RECEP	2#12+1#12G	3/4			0.90			0.54	3/4	2#12+1#12G	MECH RM	20	52						
53	20	213	2#12+1#12G	3/4			0.74	0.74		0.90	3/4	2#12+1#12G	211 RECEP	20	54						
55	20	203	2#12+1#12G	3/4	0.74				0.70	3/4	2#12+1#12G	RM 212	20	56							
57	20	LIGHTING	2#12+1#12G	3/4			1.10			0.70	3/4	2#12+1#12G	RM 214	20	58						
59	20	LIGHTING	2#12+1#12G	3/4			1.10	1.10		0.30	3/4	2#12+1#12G	217A	20	60						
61	20	LIGHTING	2#12+1#12G	3/4	0.70				0.30	3/4	2#12+1#12G	LIGHTING	20	62							
63	20	COR LIGHT	2#12+1#12G	3/4			1.10			1.50	3/4	2#12+1#12G	LIGHTING	20	64						
65	20	FSD	2#12+1#12G	3/4			0.50			1.08	3/4	2#12+1#12G	RM 220	20	66						
67	20	FLOOR BOX	2#12+1#12G	3/4	0.54				0.30	3/4	2#12+1#12G	BATHROOM	20	68							
69	20	FB MK SPACE	2#12+1#12G	3/4			0.54			0.50	3/4	2#12+1#12G	LIB DISP	20	70						
71	20	RM 204	2#12+1#12G	3/4			0.90			0.50	3/4	2#12+1#12G	DISP	20	72						
73	20	M5 DISPLAY	2#12+1#12G	3/4	0.50				0.50	3/4	2#12+1#12G	220 DISP	20	74							
75	20	LIB STUD DESK	2#12+1#12G	3/4			0.50			-	-	-	SPARE	20	76						
77	20	LASER PRINT	2#12+1#12G	3/4			0.50			-	-	-	SPARE	20	78						
79	20	LASER PRINT	2#12+1#12G	3/4	0.50					-	-	-	SPARE	20	80						
81	20	SPARE	-	-	-	-	-	-	-	-	-	-	SPARE	20	82						
83	20	SPARE	-	-	-	-	-	-	-	-	-	-	SPARE	20	84						
SUBTOTALS					7.94				7.80				7.46				SUBTOTALS				
TOTAL LOADS					14.5 KVA				PHASE A				LIGHTING: 7.00 KVA								
					15.6 KVA				PHASE B				RECEPTACLE: 0.00 KVA								
					13.0 KVA				PHASE C				KITCHEN: 0.00 KVA								
TOTAL CONNN. LOAD					43.1 KVA				120.0 A				MOTOR: 0.00 KVA								
TOTAL DEMAND LOAD					43.1 KVA				120.0 A				POWER: 36.08 KVA								
													TOTAL: 43.08 KVA								

NEW ELECTRICAL PANEL SCHEDULE																		
PNL: DP-EM			MOUNTING: SURFACE			MAIN LUGS ONLY			X	MAIN C BKR-			GROUND BUS: X					
208Y/120, 3 PHASE, 4 WIRE			(NEMA 1) FLUSH			DOUBLE LUGS				ISOLATED GROUND BUS:								
14 ,000MIN A.I.C. SYM			IN MCC			FEED THRU LUG				MAIN BUS -			TVSS:					
NEUTRAL: 100%						SHUNT TRIP MAIN				200 A			NUMBER OF POLES:			18		
CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE			KVA / PHASE CND. (IN.)			WIRE	LOAD	TRIP (AMP)	CKT No.				
A	B	C	D	E	F	G	H	I	J	K	L	M	N					
1	2	ELEV SUMP PUMP	2#12+1#12G	3/4	0.50				2.60			1	3#6+1#10G	HWP-2	3	2		
3	20					0.50			2.60						6	4		
5	3									2.60								
7		HWP-1	3#6+1#10G			2.60			0.50			3/4	2#12+1#12G	SUMP PUMP	2	8		
9	60						2.60			0.50					20	10		
11	20	RECEP	2#12+1#12G	3/4			0.40			1.20		-			3	12		
13	3				-	1.00				1.20		-	SEE RISER	EM-3	14	14		
15		EM-GYM	SEE RISER	-			1.00				1.20	-			50	16		
17	50										2.80	-						
19	3					0.50			2.60		-	SEE RISER		EM-1	3	18		
21		JOCKEY PUMP	3#12+1#12G	3/4		0.50				2.60	-				20	20		
23	50						0.50								60	22		
25	20	CONTROL PANEL	2#12+1#12G	3/4		0.50			0.50		0.50	3/4	2#12+1#12G	BATTERY CHARGER		24		
27	20	SPARE	-	-			2.60			0.50		-	2#12+1#12G	BLOK HEATER		26		
29	20	SPARE	-	-			2.60				0.50	-	-	SPARE		28		
							2.60					-	-		20	30		
SUBTOTALS						5.10	7.20	7.10	7.40	7.40	7.10	SUBTOTALS						
TOTAL LOADS						12.5 KVA	PHASE A			LIGHTING:					18.00 KVA			
						14.6 KVA	PHASE B			RECEPTACLE:					0.00 KVA			
						14.2 KVA	PHASE C			KITCHEN:					0.00 KVA			
TOTAL CONNN. LOAD						41.3 KVA	115.0	A	MOTOR:					23.30 KVA				
TOTAL DEMAND LOAD						41.3 KVA	115.0	A	POWER:					0.00 KVA				
									TOTAL:					41.30 KVA				

ELECTRICAL PANEL SCHEDULE																			
PNL: SB-KIT		MOUNTING: SURFACE				MAIN LUGS ONLY				MAIN C BKR-		GROUND BUS: X							
208Y/120, 3 PHASE, 4 WIRE		(NEMA 1)		FLUSH		X		DOUBLE LUGS		200A/3P		ISOLATED GROUND BUS:							
22 ,000MIN A.I.C. SYM				IN MCC				FEED THRU LUG		X		MAIN BUS -		TVSS:					
NEUTRAL: 100%								SHUNT TRIP MAIN		225 A				NUMBER OF POLES: 42					
CKT	TRIP	LOAD		WIRE		CND.	KVA / PHASE			KVA / PHASE			CND.	WIRE		LOAD		TRIP	CKT
(AMP)				(IN.)	A	B	C		A	B	C	(IN.)						(AMP)	No.
1	20	COOLER LIGHT	2#12+1#12G	3/4	0.50				0.90									3	2
3	20	EVAP COIL	2#12+1#12G	3/4	0.50				0.90			3/4	3#10+1#10G	CONDENSING UNIT				3	4
5	20	HEAT WRAP	2#12+1#12G	3/4			0.50			0.90								6	6
7	20	REFRIGERATOR	2#12+1#12G	3/4	0.50				0.50			3/4	2#12+1#12G	REFRIGERATOR				20	8
9	20	COOLER LIGHT BSM7	2#12+1#12G	3/4	0.50				0.50			3/4	2#12+1#12G	EVAP COIL				20	10
11	20	HEAT WRAP	2#12+1#12G	3/4			1.00			0.90								3	12
13	20	DATA	2#12+1#12G	3/4	0.50				0.90			3/4	3#10+1#10G	CONDENSING UNIT				3	14
15	20	DATA	2#12+1#12G	3/4	0.50				0.90									30	16
17	20	SPARE	-	-								-	-	SPARE				20	18
19	20	DATA	2#12+1#12G	3/4	0.50							-	-	SPARE				20	20
21	20	SECURITY WINDOW	2#12+1#12G	3/4	0.34							-	-	SPARE				20	22
23	20	SPARE	-	-								-	-	SPARE				20	24
25	20	DATA	2#12+1#12G	3/4	0.50							-	-	SPARE				20	26
27	20	DATA	-	-	0.50				0.20			3/4	2#12+1#12G	DS-A				20	28
29	20	DATA	-	-			0.50			0.20								20	30
31	20	SECURITY WINDOW	2#12+1#12G	3/4	0.34				0.50			3/4	2#12+1#12G	DATA				20	32
33	20	SPARE	-	-								-	-	SPARE				20	34
35	20	SPARE	-	-								-	-	SPARE				20	36
37	20	SPARE	-	-								-	-	SPARE				20	38
39	20	SPARE	-	-								-	-	SPARE				20	40
41	20	SPARE	-	-								-	-	SPARE				20	42
SUBTOTALS						2.84	2.34	2.00	2.80	2.50	2.00	SUBTOTALS							
TOTAL LOADS						5.6 KVA	PHASE A			LIGHTING:				0.00 KVA					
						4.8 KVA	PHASE B			RECEPTACLE:				0.00 KVA					
						4.0 KVA	PHASE C			KITCHEN:				0.00 KVA					
TOTAL CONN. LOAD						14.5 KVA	40.0 A			MOTOR:				10.64 KVA					
TOTAL DEMAND LOAD						14.5 KVA	40.0 A			POWER:				3.84 KVA					
										TOTAL:				14.48 KVA					

NEW ELECTRICAL PANEL SCHEDULE																							
PNL: KP-1		MOUNTING: SURFACE (NEMA 1)				FLUSH X				MAIN LUGS ONLY DOUBLE LUGS				MAIN C BKR- 400A3P				GROUND BUS: ISOLATED GROUND BUS:				X	
208Y/120, 3 PHASE, 4 WIRE						IN MCC				FEED THRU LUG				MAIN BUS -				TVSS:					
NEUTRAL: 100%										SHUNT TRIP MAIN				400A				NUMBER OF POLES:				54	
CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE A B C				KVA / PHASE CND. (IN.)	A	B	C	WIRE	LOAD	TRIP (AMP)	CKT No.							
1	20	FIRE SUPPRESSION SHUNT TRIP	2#12+1#12G	3/4	0.54				0.34			3/4	2#12+1#12G	EXHAUST HOOD SHUNT TRIP	20	2							
5	20	CONVENTION STOVE SHUNT TRIP	2#12+1#12G	3/4				0.70		0.30		3/4	2#12+1#12G	GRIDDLE SHUNT TRIP	20	6							
9	20	CONV RECEP	2#12+1#12G	3/4			1.20			0.30		3/4	2#12+1#12G	GAS DETECTOR	20	10							
11	20	CONV RECEP	2#12+1#12G	3/4			1.20			1.60		3/4	2#10+1#10G	HOT CABINET	30	12							
13	20	POS	2#12+1#12G	3/4	0.50				0.70			3/4	2#12+1#12G	CONV STOVE	20	14							
15	20	BRAISAN PAN SHUNT TRIP	2#12+1#12G	3/4			0.30					-	-	SPARE	20	18							
19	20	SPARE	-	-								-	-	SPARE	20	20							
21	3						2.30			0.50		3/4	2#12+1#12G	FIRE SHUTTER	20	22							
23	50	CUSTOM CAB RECEP	3#6+1#10G	3/4			2.30		2.30			-	-	SPARE	20	24							
25	50						2.30			0.50		3/4	2#12+1#12G	CONV RECEP	20	26							
27	20	CONV RECEP	2#12+1#12G	3/4			0.50			2.00					3	28							
29	20	CONV RECEP	2#12+1#12G	3/4			0.34			2.00		2.00	3/4	3#10+1#10G	HOT WATER BOOSTER	30	32						
31	3						2.60			2.00					30	34							
33	60	DISHWASHER	3#6+1#10G	1			2.60		2.60		0.34	3/4	2#12+1#12G	CONV RECEP	20	36							
35	60						2.60				0.54	3/4	2#12+1#12G	CONV RECEP	20	38							
37	20	AUTO FAUCET	2#12+1#12G	3/4	0.50				0.30			3/4	2#12+1#12G	EF-1	20	40							
39	3						1.20			0.90		3/4	2#12+1#12G	LIGHTING	20	42							
41	40	DOCK LIFT	3#8+1#10G	3/4			1.20		1.20	0.40		3/4	2#12+1#12G	LIGHTING	20	44							
43	40						1.20			0.70		3/4	2#12+1#12G	LIGHTING	20	46							
45	20	GAS BOOSTER PUMP	2#12+1#12G	3/4			2.20			1.80		3/4	2#12+1#12G	LIGHTING	20	48							
47	3						2.60			0.50		3/4	2#12+1#12G	DH	20	50							
49	35	ACN-C	3#8+1#10G	3/4	2.60			2.60	1.00			3/4	2#12+1#12G	LIGHTING	20	52							
51	35						2.60			0.54		3/4	2#12+1#12G	CABINET HEATER	20	54							
53	3	ACN-D	3#10+1#10G	3/4	1.30			1.30		0.50		3/4	2#12+1#12G	SEV FIRE SHUTTER	54	56							
55	3						1.30			0.50		3/4	2#12+1#12G	SEV FIRE SHUTTER	54	58							
57	20						1.30			0.50		3/4	2#12+1#12G	EPO	54	60							
59	20	SPARE	-	-								-	-	SPARE	60	62							
61	20	SPARE	-	-								-	-	SPARE	60	64							
63	20	SPARE	-	-								-	-	SPARE	64	66							
65	20	SPARE	-	-								-	-	SPARE	64	68							
67	20	SPARE	-	-								-	-	SPARE	68	70							
69	20	SPARE	-	-								-	-	SPARE	70	72							
71	20	SPARE	-	-								-	-	SPARE	72	74							
73	20	SPARE	-	-								-	-	SPARE	74	76							
75	20	SPARE	-	-								-	-	SPARE	76	78							
77	20	SPARE	-	-								-	-	SPARE	78	80							
79	20	SPARE	-	-								-	-	SPARE	80	82							
81	20	SPARE	-	-								-	-	SPARE	82	84							
83	20	SPARE	-	-								-	-	SPARE	84	86							
SUBTOTALS						### 12.20 ###				6.04 6.88 5.84				SUBTOTALS									
TOTAL LOADS						17.6 KVA PHASE A								LIGHTING: 4.80 KVA									
						19.1 KVA PHASE B								RECEPTACLE: 0.00 KVA									
						18.1 KVA PHASE C								KITCHEN: 0.00 KVA									
TOTAL CONN. LOAD						54.7 KVA 152.0 A								MOTOR: 31.24 KVA									
TOTAL DEMAND LOAD						54.7 KVA 152.0 A								POWER: 18.70 KVA									
														TOTAL: 54.74 KVA									



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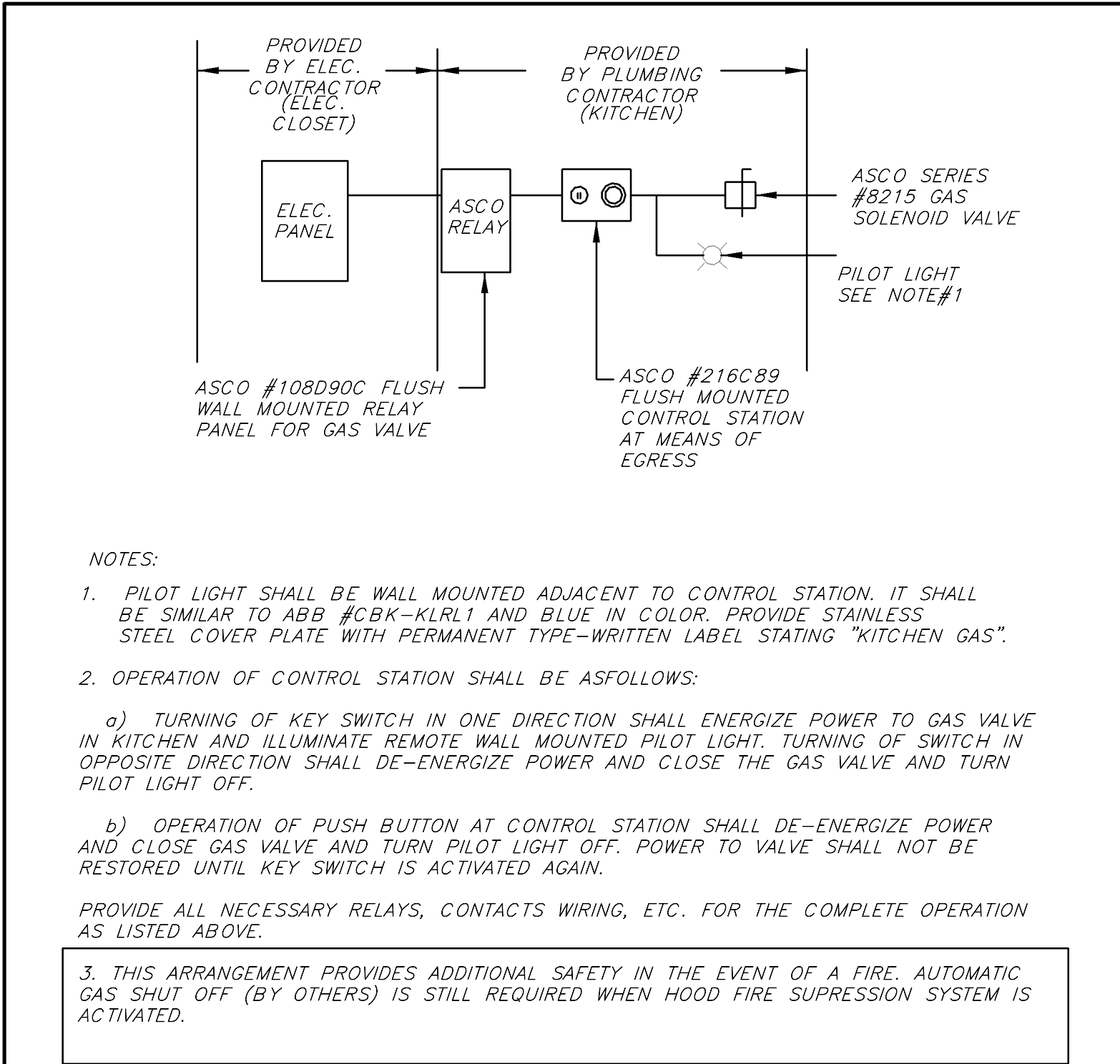
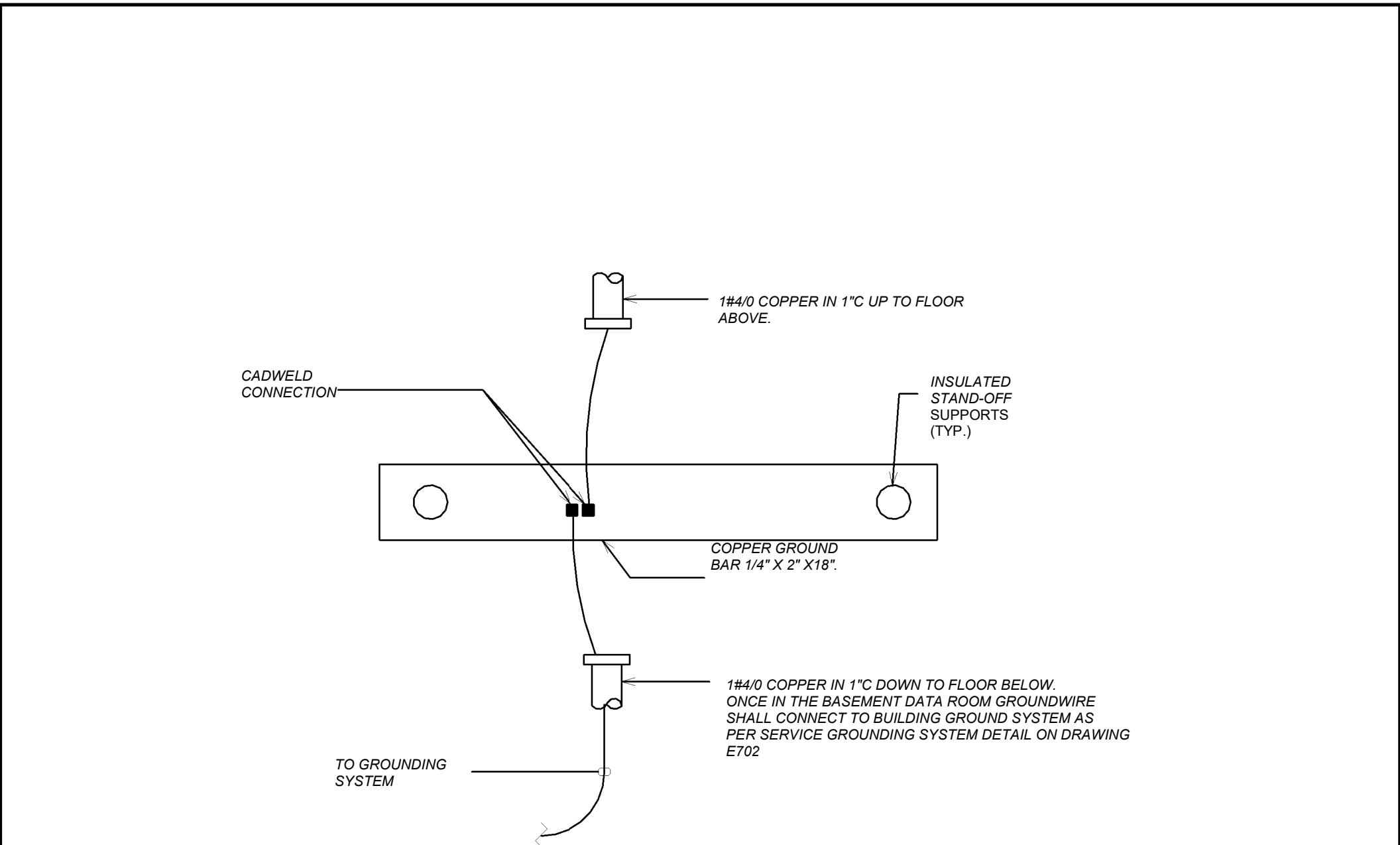
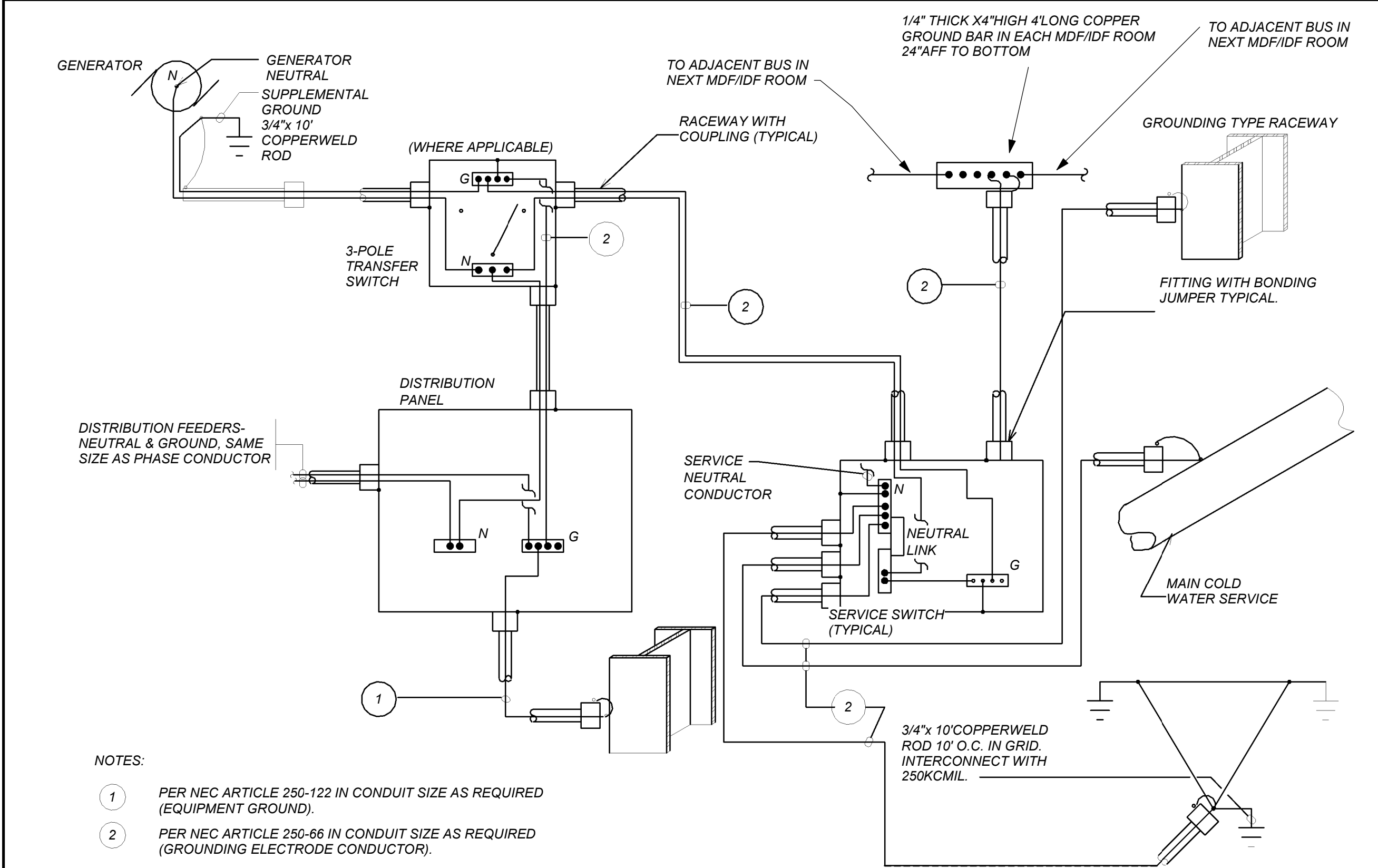
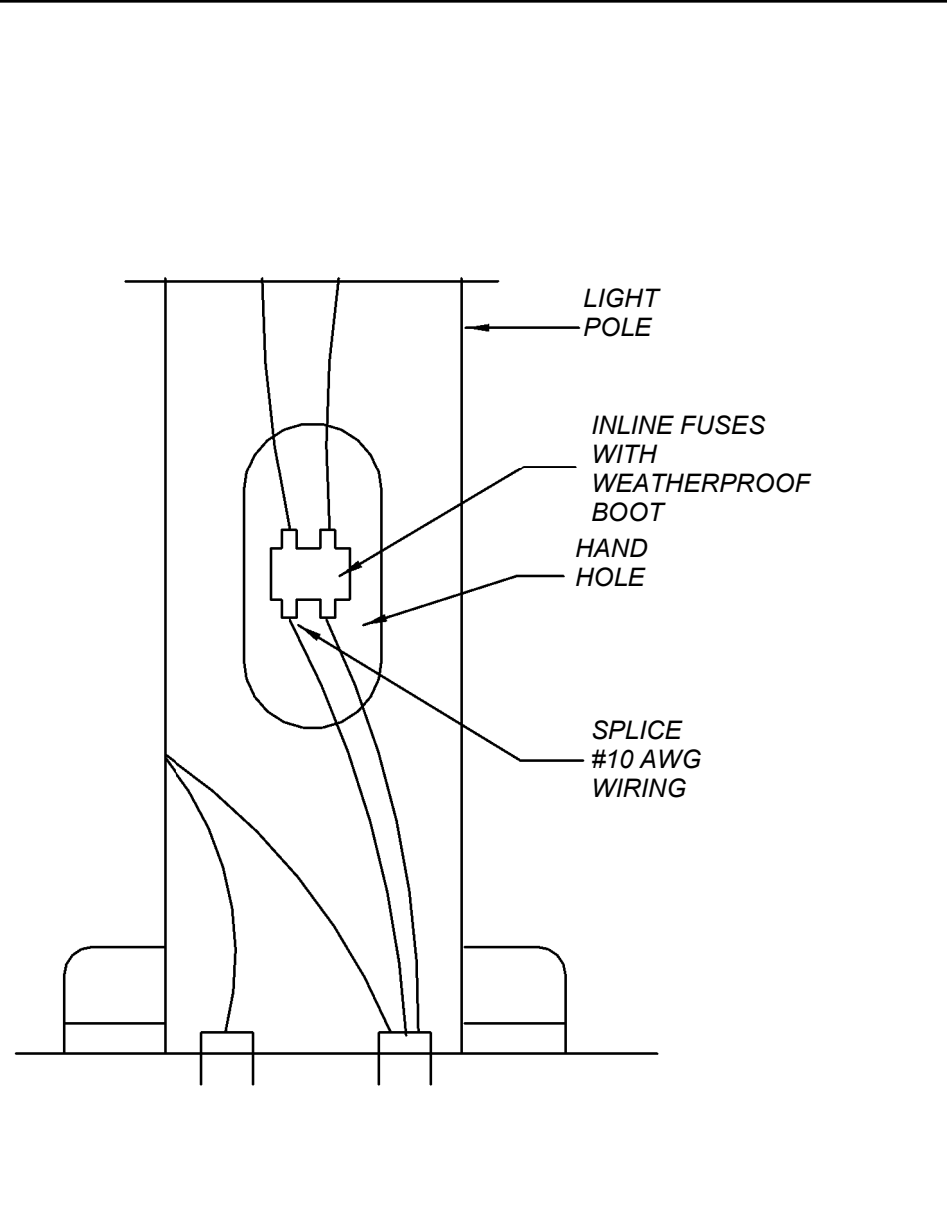
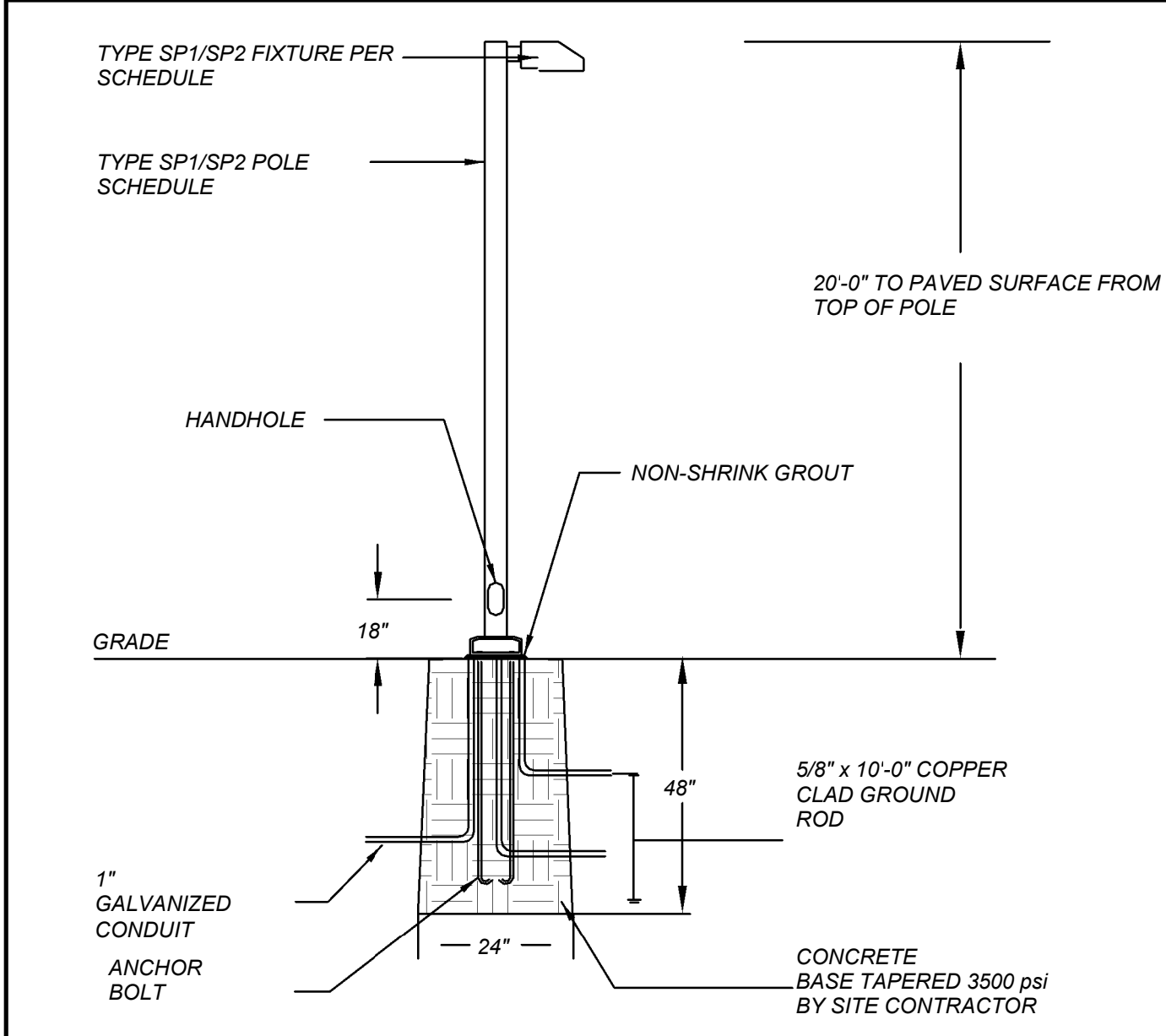
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Sheet Title

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Job No. 2019-1026 Date 05/17/21
Scale AS NOTED Drawn / Checked Author Checker
Sheet Number

E701



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YONKERS JOINT SCHOOL DISTRICT
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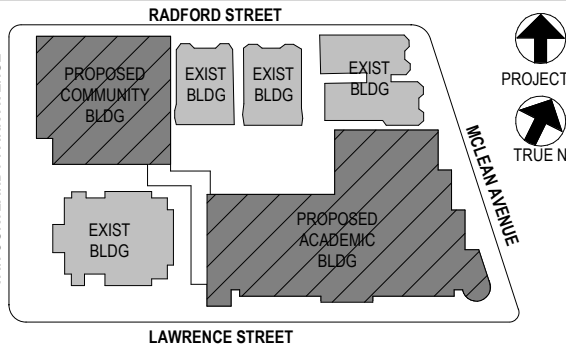
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4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

No. Date Issue

Sheet Title

ELECTRICAL DETAILS

Job No.	2019-1026	Date	8/31/20
Scale	AS NOTED	Drawn / Checked	BGA/ BGA

Sheet Number

E702

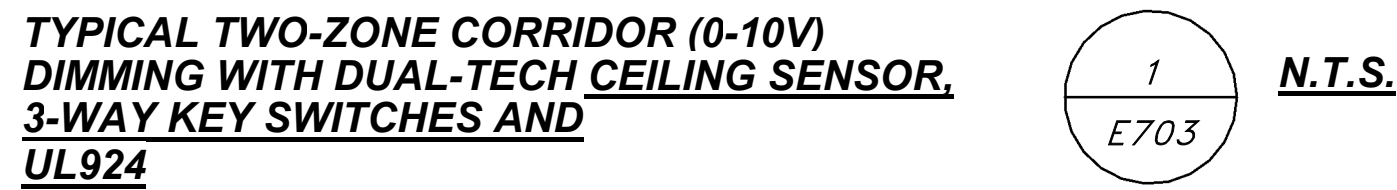
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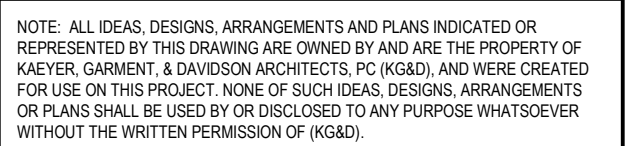
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BUTTON TYPES	
Toggle*	Sends group ON/group OFF, factory configuration
On	Sends group ON to full level, relay control is optional
Off	Sends group OFF to minimum level, relay control is optional
Single Button On/Off	Sends group ON to level/group OFF to level, relay control is optional
Raise	Raise dimming level
Lower*	Lower dimming level
Preset	Activate a preset scene, 1 - 16
Timed On	Sends ON with selectable timeout to OFF
CCT On	Sends ON, level, and sets color
CCT Off	Sends OFF, level, and sets color
CCT Raise	Increase color temperature
CCT Lower	Lower color temperature
Partition	Sends room combine/separate message
On/Raise/Lower/Off	Touch for ON, hold for raise/lower, touch for OFF



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2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN
No	Date	Issue

Job No. 2019-1026	Date 05/17/21
Scale AS NOTED	Drawn / Checked Author Checker

Sheet Number

5300

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1700

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E704



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Sheet Title

Sheet Number

E704

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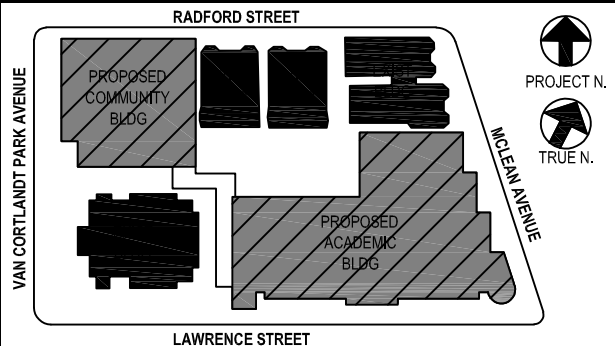
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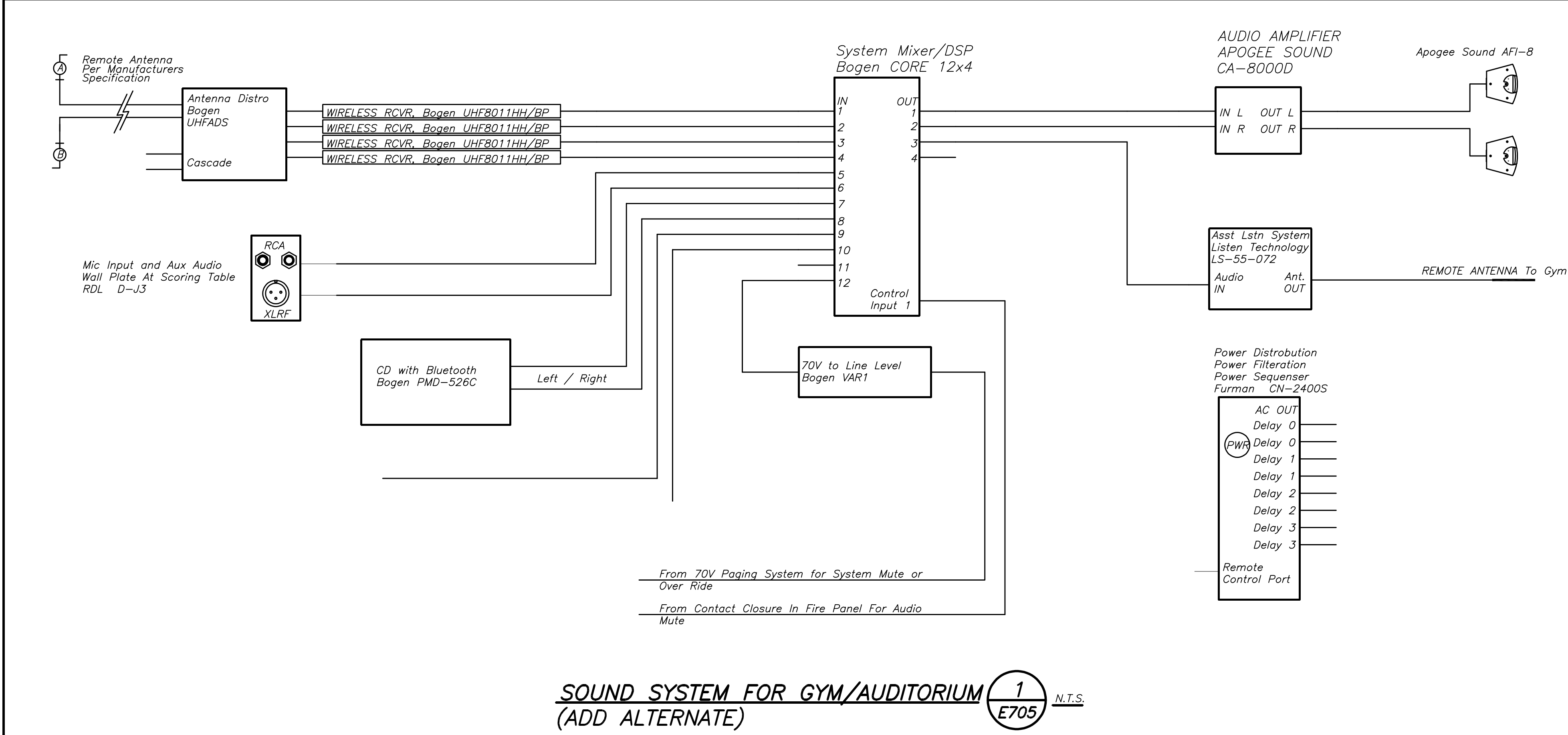
No.	Date	Issue
4	11/01/2021	ISSUED TO BID
3	07/14/2021	CONSTRUCTION DOCS-NYSED
2	12/15/2020	DESIGN DEVELOPMENT
1	08/31/2020	SCHEMATIC DESIGN

ELECTRICAL DETAILS

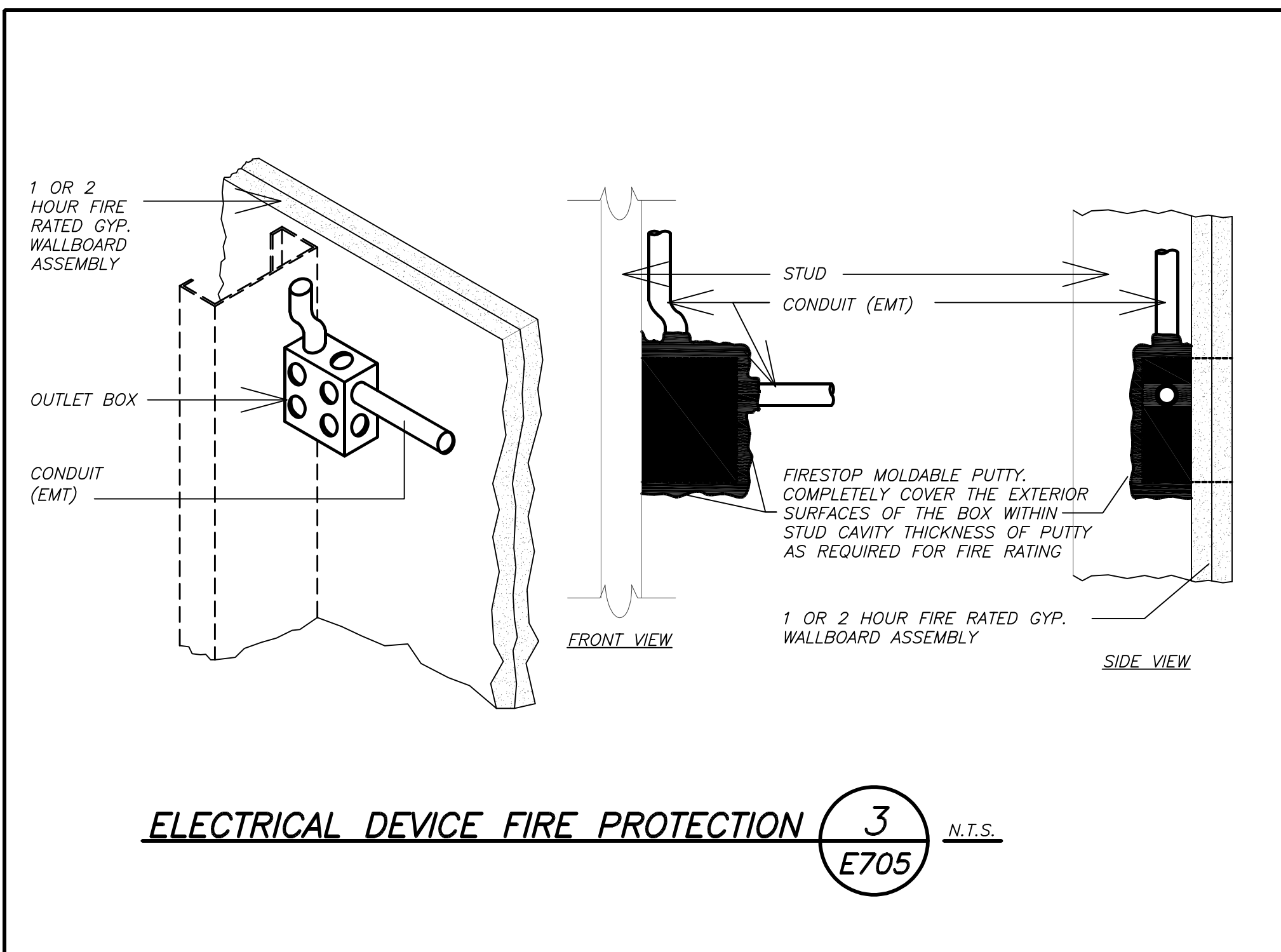
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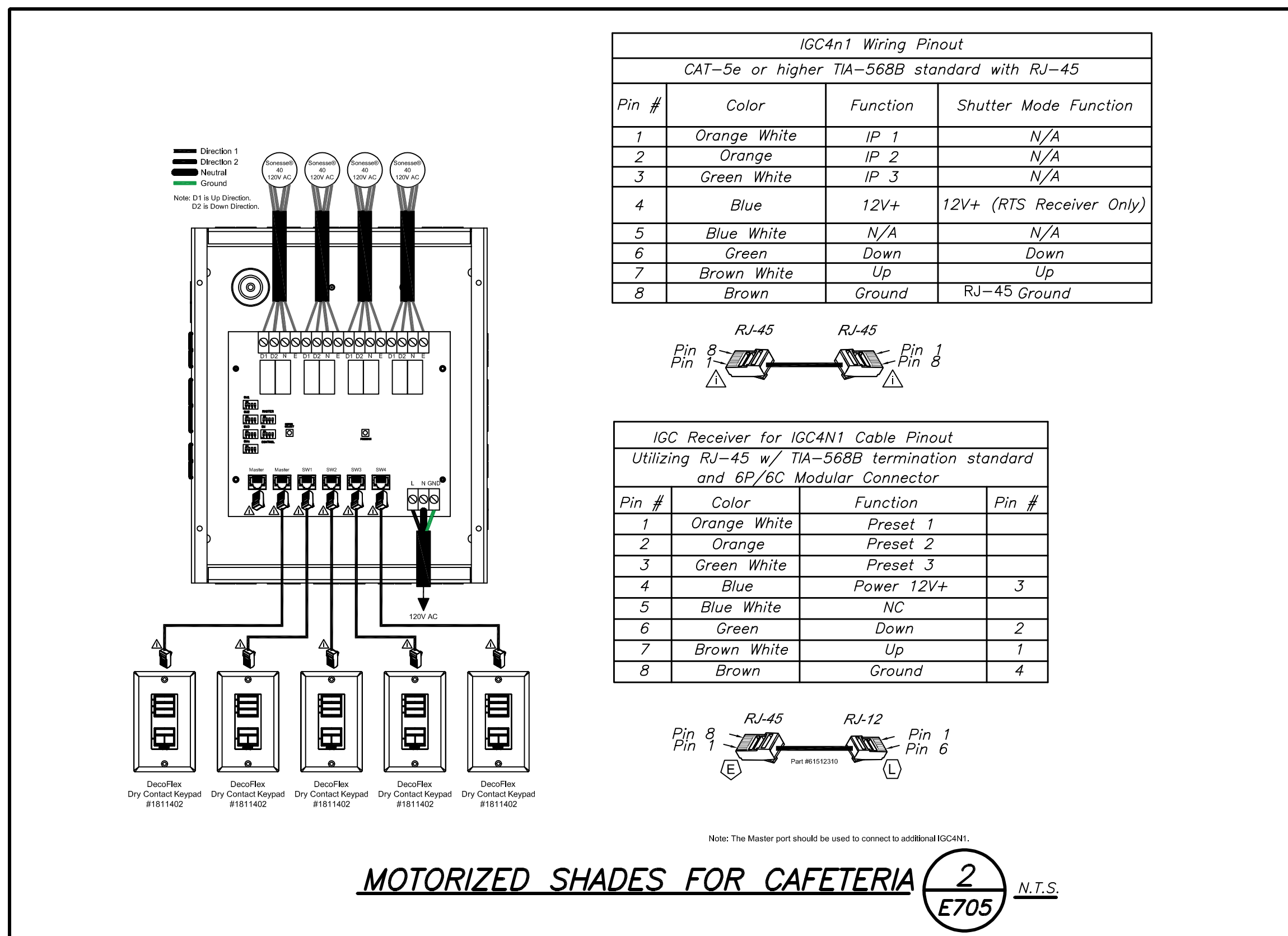
E705



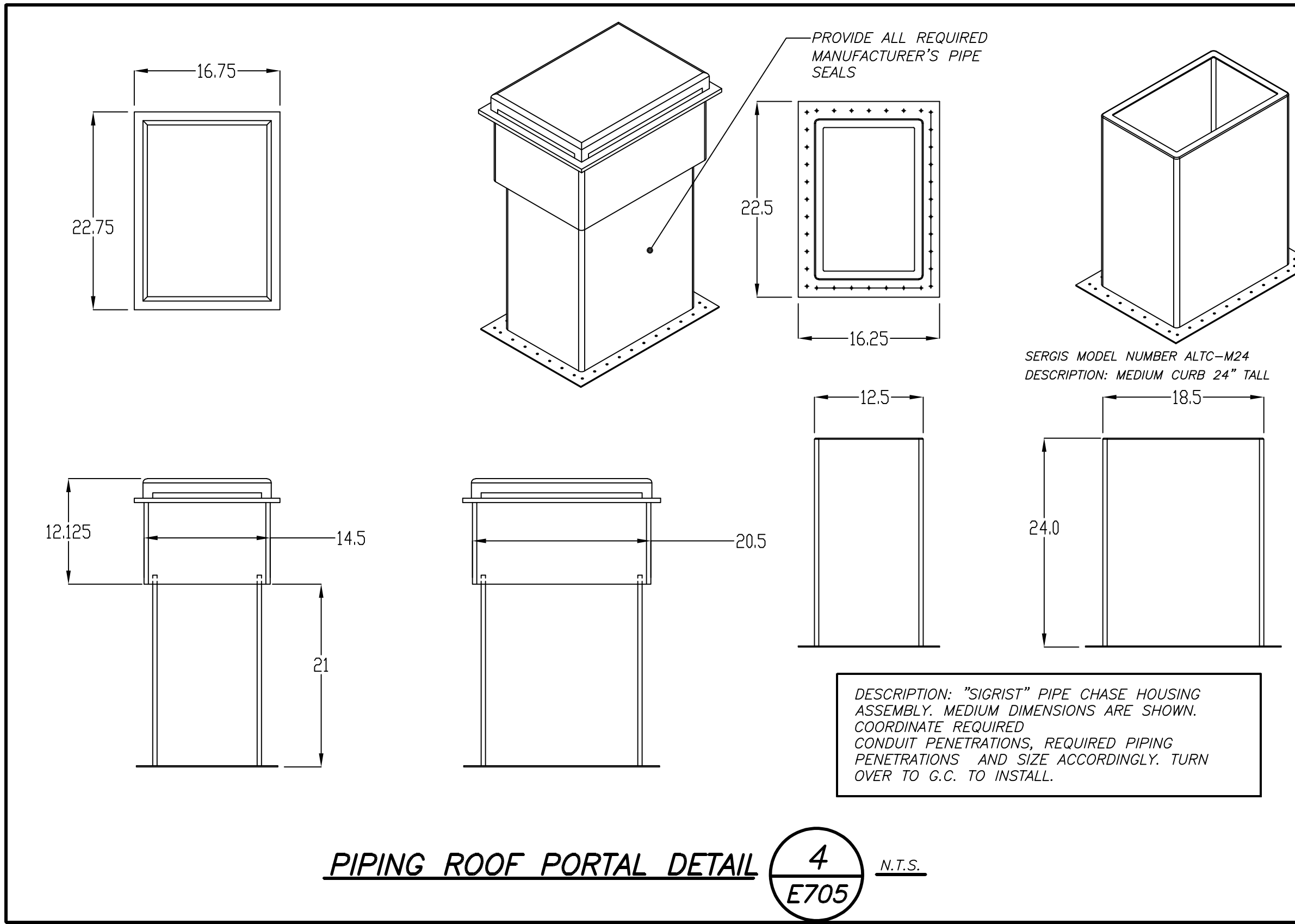
SOUND SYSTEM FOR GYM/AUDITORIUM (ADD ALTERNATE) 1 E705 N.T.S.



ELECTRICAL DEVICE FIRE PROTECTION 3 E705 N.T.S.



MOTORIZED SHADES FOR CAFETERIA 2 E705 N.T.S.



PIPING ROOF PORTAL DETAIL 4 E705 N.T.S.

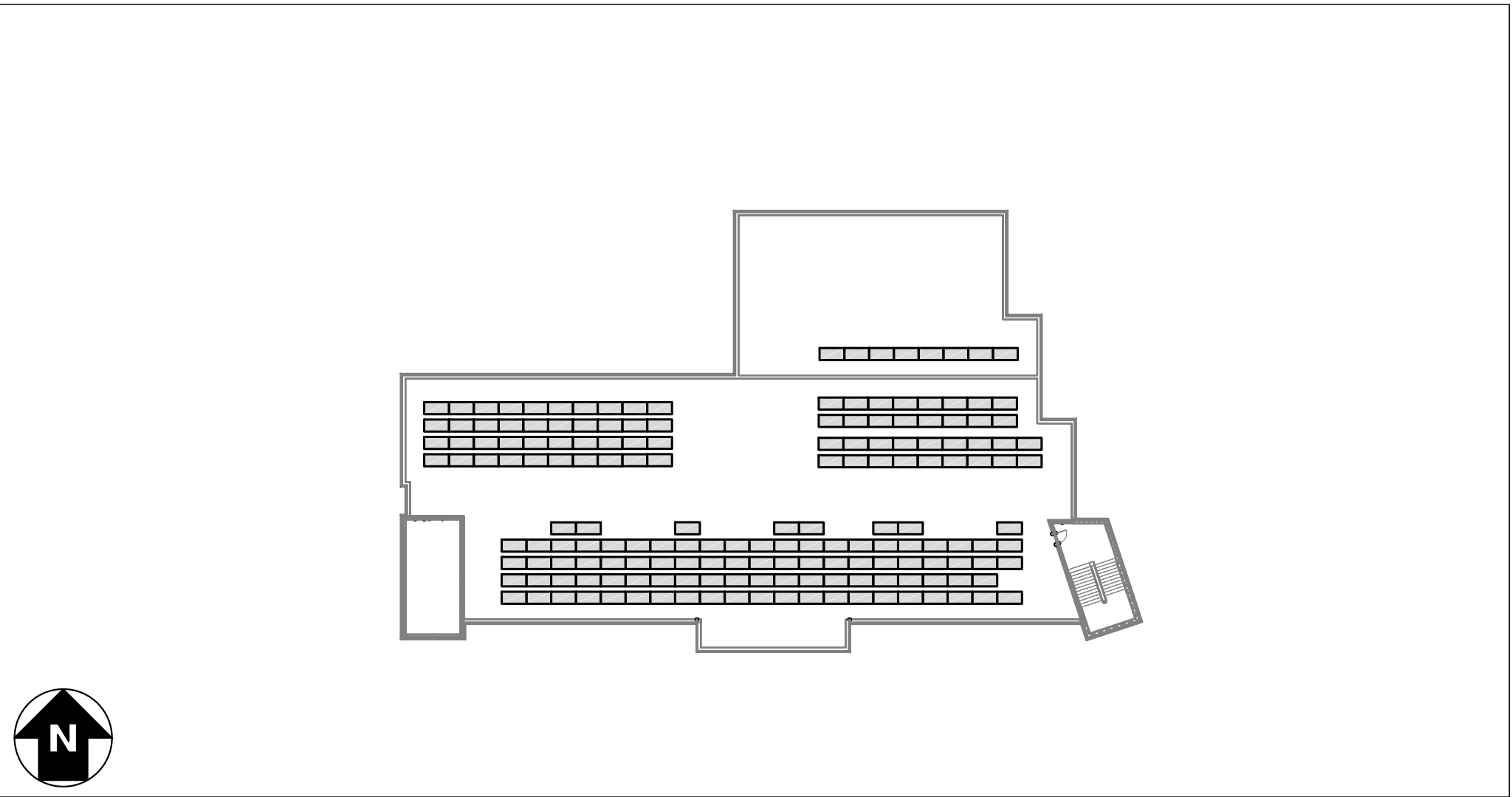
BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE THIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS.

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76.12 KW SOLAR ROOFTOP SYSTEM AT
ST. DENIS COMMUNITY SCHOOL
121 MCLEAN AVENUE, YONKERS, NEW YORK 10705



LOCATION MAP
SCALE: 1" = 1000'



SYSTEM PLAN
SCALE: 1" = 40'

TOTAL SYSTEM SUMMARY:

TOTAL DC SYSTEM SIZE:	76.12 kWDC
AC SYSTEM SIZE:	72.00 kWAC
MODULE MANUFACTURER:	CANADIAN SOLAR
MODULE MODEL:	CS3W-440MB-AG
MODULES PER STRING:	12, 13 & 14
MODULE QUANTITY:	173
STRING QUANTITY:	13
MODULE TILT:	10°
MODULE AZIMUTH:	153°
INVERTER MANUFACTURER:	SOLAREDGE
INVERTER MODEL:	SE14.4KUS
INVERTER QUANTITY:	5
OPTIMIZER MODEL:	SOLAREDGE P505
OPTIMIZER QUANTITY:	188

SCOPE OF WORK SUMMARY

- ROOFTOP PV ARRAY:
- INSTALL SOLAR MODULES AND ROOFTOP RACKING SYSTEM ON TOP OF EXISTING BUILDING.
 - INSTALL INVERTERS AND ELECTRICAL DISTRIBUTION EQUIPMENT.
 - INTERCONNECT AT NEW ELECTRICAL DISTRIBUTION EQUIPMENT.

DEVELOPER:

lbg

BARILE GALLAGHER & ASSOCIATES

CONSULTING ENGINEERS

39 MARBLE AVE PLEASANTVILLE, NY 10570
914.328.6060 GENERAL@BGA-ENG.COM WWW.BGA-ENG.COM

39 MARBLE AVENUE
PLEASANTVILLE, NY 10570

ENGINEERED BY:

PUREPOWER
ENGINEERING

111 RIVER STREET, SUITE 1110
HOBOKEN, NEW JERSEY, 07030

DRAWING INDEX

GENERAL	SED SUBMISSION	SED SUBMISSION REV1	07/14/2021	10/08/2021
PG001 TITLE SHEET	●	●		
PG200 ARRAY PLAN	●	●		
PG300 FIRE ACCESS PLAN	●	○		
ELECTRICAL				
PE001 ELECTRICAL NOTES & SYMBOL LIST	●	○		
PE100 AC ELECTRICAL PLAN	●	○		
PE200 DC ELECTRICAL PLAN	●	●		
PE300 ONE LINE DIAGRAM	●	○		
PE310 SCHEDULES & CALCULATIONS	●	●		
PE401 GROUNDING DETAILS	●	○		
PE402 ELECTRICAL DETAILS	●	○		
PE500 LABELS & SIGNAGE	●	○		
PE600 EQUIPMENT DATA SHEETS	●	○		

LEGEND:

UPDATED DRAWING ISSUED	●
UNCHANGED, PREVIOUSLY ISSUED DRAWING STILL CURRENT	○
DRAWING REMOVED FROM SET	x

DRAWING TITLE	DRAWING #
TITLE SHEET	PG001

PROJECT: 76.12 KW SOLAR ROOFTOP SYSTEM AT ST. DENIS COMMUNITY SCHOOL 121 MCLEAN AVE YONKERS, NY 10705

DC SYSTEM SIZE: 76.12 kW
AC SYSTEM SIZE: 72.00 kW
MODULE TYPE: CS3W-440MB-AG
MODULE QUANTITY: 173
STRING QUANTITY: 13
TILT: 10° AZIMUTH: 153°

DEVELOPER: BARILE GALLAGHER & ASSOCIATES 39 MARBLE AVE PLEASANTVILLE, NY 10570 WWW.BGA-ENG.COM

ENGINEER: RICHARD A. WINS 111 RIVER STREET HOBOKEN, NJ 07030 WWW.PUREPOWER.COM NY LICENSE NO. 031197

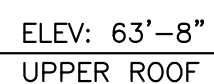
PAGE SIZE: 36" x 24" PROJECT #: 01541

REVISION DESCRIPTION DATE DATE 10/08/2021 07/14/2021

SED SUBMISSION
SED SUBMISSION REV1

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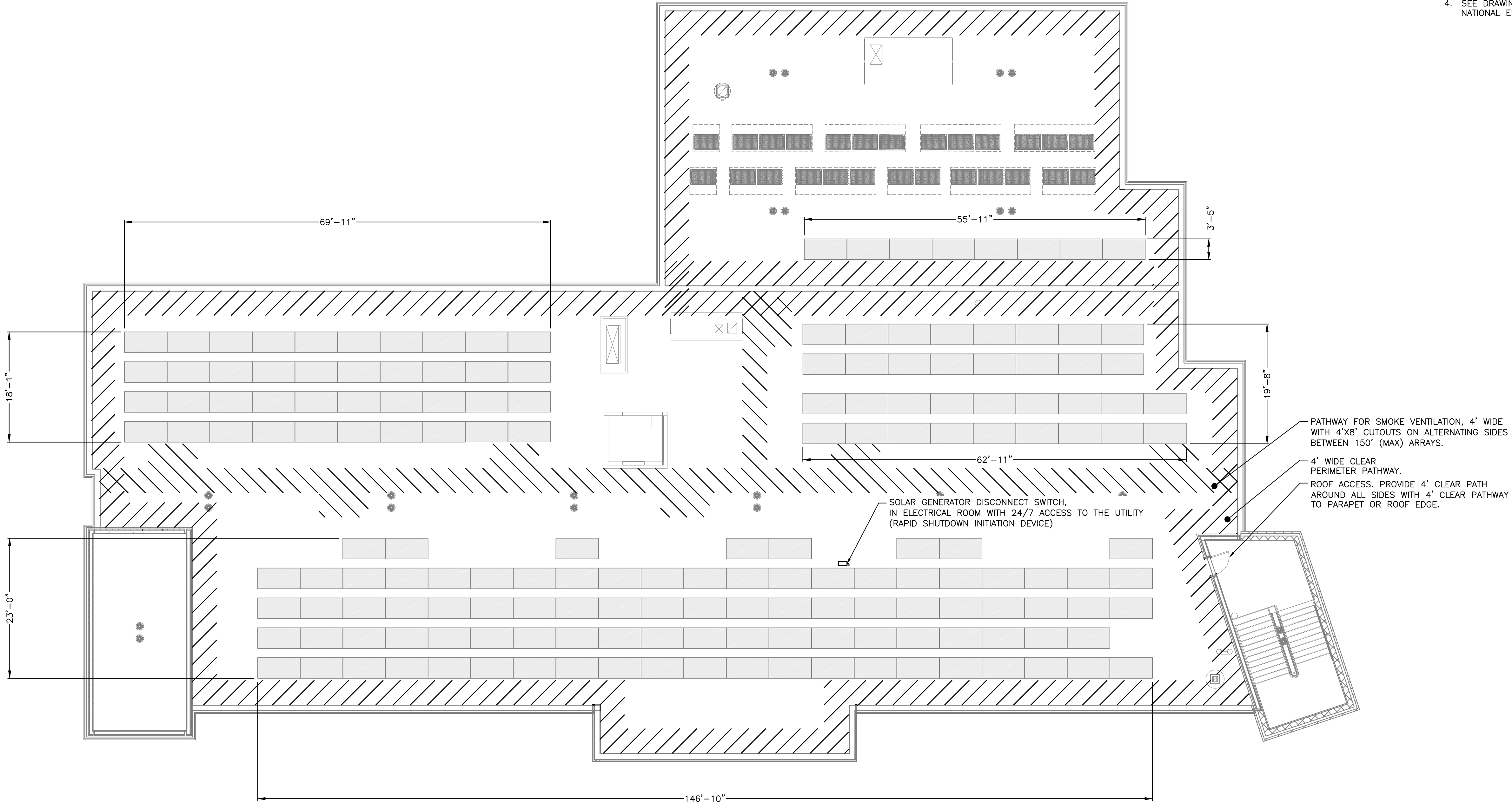
C SYSTEM SIZE:	76.12 kW
C SYSTEM SIZE:	72.00 kW
MODULE TYPE:	C53W-440MB-AG
MODULE QUANTITY:	173
TRNG QUANTITY:	13
ORIENTATION:	10° TILT, 153° AZIMUTH

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FLAT ROOF FIRE CODE REFERENCES				
REQUIREMENT	IFC 2015	IFC 2018	NFPA1 2012 / 2015	NFPA1 2018
4' CLEAR PERIMETER (≤250')	605.11.3.1 EXCPT	1204.3.1 EXCPT	11.12.2.2.3.1	11.12.2.2.2.3.1
6' CLEAR PERIMETER (>250')	605.11.3.1	1204.3.1	11.12.2.2.3.1	11.12.2.2.2.3.1
ROOF ACCESS HATCH:				
4' AROUND ALL SIDES & 4' PATH TO ROOF EDGE	605.11.1.3.2(4)	1204.3.2(3)	11.12.2.2.3.2(5)	11.12.2.2.2.3.2(2)
ARRAYS 150' MAX (BETWEEN PATHS)	605.11.1.3.3(1)	1204.3.2(1)	11.12.2.2.3.3.1	11.12.2.2.2.3.2(3)
8' PATHS	605.11.3.3(2)(2.1)	1204.3.3(2)(2.1)	11.12.2.2.3.3.2(1)	11.12.2.2.2.3.3(1)
4' PATH WITH 4X8 CUTOUTS EVERY 20' ON ALT. SIDES	605.11.3.3(2)(2.4)	1204.3.3(2)(2.3)	11.12.2.2.3.3.2(3)	11.12.2.2.2.3.3(3)
SMOKE VENTS — NON—GRAVITY (MECHANICAL):				
4' STRAIGHT PATH TO & 4' AROUND	605.11.1.3.3(2)(2.3)	1204.3.3(1)	11.12.2.2.3.3.2(2)	11.12.2.2.2.3.3
SMOKE VENTS — GRAVITY (DROPOUT) & SKYLIGHTS: 4' STRAIGHT PATH TO ONE SIDE	605.11.1.3.3(2)(2.2)	1204.3.3(2)(2.2)	11.12.2.2.3.3.2(2)	11.12.2.2.2.3.3(2)
ROOF STANDPIPES:				
4' STRAIGHT LINE PATH TO ONE SIDE	605.11.1.3.2(3)	1204.3.2(2)	11.12.2.2.3.2(4)	11.12.2.2.2.3.2(1)
"CENTERLINE" ACCESS	605.11.1.3.2(2)	REMOVED	11.12.2.2.3.2(2&3)	REMOVED



NFPA 1 REQUIRED LABELS:

- MAIN SERVICE DISCONNECT** — THE LABEL "WARNING: PHOTOVOLTAIC POWER SOURCE" SHALL BE PERMANENTLY AFFIXED TO THE MAIN SERVICE DISCONNECT. LABEL SHALL BE RED WITH WHITE CAPITAL LETTERS AT LEAST 3/4" HIGH IN NONSERIF FONT. MATERIAL SHALL BE REFLECTIVE, WEATHER RESISTANT, AND SUITABLE FOR THE ENVIRONMENT. (NFPA 1: 11.12.2.1.1)
- INVERTER DISCONNECTS** — THE LABEL "PHOTOVOLTAIC DISCONNECT" SHALL BE AFFIXED TO EACH CIRCUIT BREAKER PANEL SERVING THE INVERTERS. LABEL SHALL BE CONTRASTING COLOR WITH CAPITAL LETTERS AT LEAST 3/8" HIGH IN NONSERIF FONT. THE LABEL SHALL BE CONSTRUCTED OF DURABLE ADHESIVE MATERIAL OR OTHER APPROVED MATERIAL. (NFPA 1: 11.12.2.1.2)
- SOLAR RACEWAYS** — THE LABEL "PHOTOVOLTAIC POWER SOURCE" SHALL BE RED WITH WHITE CAPITAL LETTERS AT LEAST 3/8" HIGH IN NONSERIF FONT. LABELS SHALL BE PERMANENTLY AFFIXED ON ALL EXPOSED RACEWAYS, CABLE TRAYS, PULL BOXES, AND JUNCTION BOXES. LABELS SHALL BE SPACED NO GREATER THAN 10 FEET APART. MATERIAL SHALL BE REFLECTIVE, WEATHER RESISTANT, AND SUITABLE FOR THE ENVIRONMENT. (NFPA 1: 11.12.2.1.3)
- SEE DRAWING E500 FOR ADDITIONAL LABELS REQUIRED BY THE NATIONAL ELECTRICAL CODE.



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ELECTRICAL NOTES

1. GENERAL
- 1.A. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) TO APPLICABLE UL STANDARDS. THE CONTRACTOR SHALL PROCURE ALL NECESSARY CERTIFICATIONS FOR ALL WORK INSTALLED, PAY ALL FEES AND CHARGES CONNECTED THEREWITH AND DELIVER ALL CERTIFICATES AND INSPECTION APPROVALS TO THE OWNER THROUGH THE ENGINEER, BEFORE WORK WILL BE FINALLY ACCEPTED.

1.B. ALL INVERTERS SHALL BE IEEE 1547 COMPLIANT AND SHALL BE INSPECTED BY LOCAL UTILITY BEFORE COMMISSIONING, TESTING AND OPERATION OF THE SYSTEM.

1.C. UNLESS OTHERWISE NOTED, NEW EQUIPMENT SHALL HAVE AN INTERRUPT RATING (KAIC) OR SHORT CIRCUIT CURRENT RATING (SCCR) GREATER THAN OR EQUAL TO THE EXISTING EQUIPMENT.
2. MANNER OF INSTALLATION
- 2.A. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. ALL DETAILS OF THE INSTALLATION SHALL BE MECHANICALLY AND ELECTRICALLY CORRECT.

2.B. TORQUE AND MARK ALL RACKING AND MECHANICAL LUGS.
3. CONDUCTORS AND CONDUCTOR INSTALLATION
- 3.A. WHERE POSSIBLE, ALUMINUM CABLE TERMINATIONS SHALL BE MADE WITH COMPRESSION LUGS OR MECHANICAL LUGS WITH COMPRESSION PIN ADAPTORS. REQUEST CLIENT APPROVAL FOR ALTERNATIVES.

3.B. IF ALUMINUM MC CABLE IS USED, THHN/THWN-2 INSULATION IS ACCEPTABLE. FOR ALUMINUM CONDUCTORS, XHHW-2 SHALL BE USED.

3.C. ANTI-OXIDANT COMPOUND SHALL BE USED WITH ALL ALUMINUM LUGS. CLEAN OXIDATION FROM WIRE STRANDS WITH STEEL WIRE BRUSH PRIOR TO APPLICATION OF COMPOUND.

3.D. PV SYSTEM CONDUCTORS SHALL BE MARKED AND IDENTIFIED PER NEC 690.31(B).

3.E. INSTALL WIRE AND CABLE IN ACCORDANCE WITH THE NEC AND AS HEREINAFTER SPECIFIED. USE THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION'S "STANDARD OF INSTALLATION", THE MANUFACTURER'S WRITTEN INSTRUCTIONS, UNLESS SUPERSEDED BY THESE SPECIFICATIONS. IN ALL CASES THE INSTALLATION SHALL BE IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES.

3.F. THE USE OF WIRE SPLICES AT ANY POINT IN THE INSTALLATION IS STRICTLY PROHIBITED.

3.G. THE USE OF WIRE LUBE IS REQUIRED FOR ALL WIRE PULLS THROUGH CONDUIT RUNS OF 20' OR LONGER, OR WITH BENDS IN 180' OR MORE. WIRE LUBE IS REQUIRED EVEN WHEN USING SELF LUBRICATING CABLES SUCH AS SOUTHWIRE 'SIMPULL'.

3.H. STRING WIRING & HOMERUNS SHALL BE SECURED TO UNDERSIDE OF THE RACKING & MODULES USING SUNBUNDLERS OR ZIP TIES OUTDOOR RATED FOR UV (HELLERMAN TYTON PA66UV OR EQUAL). TRANSITION TO EMT OUTSIDE OF ARRAY. NEGATIVE HOMERUN SHALL BE RUN PARALLEL TO POSITIVE HOMERUN.

3.I. ALL PV SOURCE CIRCUITS WHICH WOULD BE EXPOSED TO PHYSICAL DAMAGE SHALL BE PROTECTED IN CONDUIT OR CABLE TRAY.

3.J. ALL PV SOURCE CIRCUITS WITH DIRECT EXPOSURE TO SUNLIGHT SHALL BE PROTECTED THROUGH THE USE OF CONDUIT, PROTECTIVE WRAP, SPLIT LOOM, OR EQUIVALENT, WHICH ARE DURABLE FOR THE ENVIRONMENT AND RATED FOR THE APPLICATION.

3.K. ALL PLUG AND SOCKET CONNECTORS MATED TOGETHER SHALL BE OF THE SAME TYPE AND OF THE SAME MANUFACTURER. "COMPATIBLE" CONNECTORS SHALL NOT BE ACCEPTED (IEC 62446-1).

3.L. ALL FIELD-MADE PLUG & SOCKET CONNECTORS SHALL BE INSTALLED USING MANUFACTURER APPROVED TOOLS AND METHODS, AND CABLE GLANDS SHALL BE TIGHTENED TO MANUFACTURER'S SPECIFIED TORQUE VALUE.
4. PHASE RELATIONSHIP
- 4.A. CONNECT FEEDERS TO MAINTAIN PHASE RELATIONSHIP THROUGH SYSTEM. PHASE LEGS OF FEEDERS SHALL MATCH BUS OR CABLE ARRANGEMENTS IN EQUIPMENT TO WHICH THE FEEDERS ARE CONNECTED. COLOR CODING SHALL BE AS FOLLOWS:

208/120 VAC
A PHASE: BLACK, B PHASE: RED, C PHASE: BLUE

277/480 VAC OR 346/600 VAC
A PHASE: BROWN, B PHASE; ORANGE, C PHASE: YELLOW

1500 VDC, 1000 VDC, OR 600 VDC
UNGROUND POSITIVE CONDUCTOR: RED
UNGROUND NEGATIVE CONDUCTOR: BLACK

AC AND DC SYSTEMS:
GROUNDED CONDUCTOR: WHITE
GROUND: GREEN
- 4.B. GROUNDED CONDUCTORS (NEUTRAL) AND EQUIPMENT GROUNDING CONDUCTORS SMALLER THAN #4 MUST HAVE COLOR CODED INSULATION. WHERE COLOR CODED CABLE IS NOT USED, TAPE CONDUCTOR WITH OVERLAPPED COLORED TAPE FOR A MINIMUM OF 6" IN ACCESSIBLE LOCATIONS. COLOR CODING MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.
5. CONDUITS AND RACEWAYS
- 5.A. PROVIDE RACEWAYS MINIMUM SIZE 3/4".

5.B. CONDUITS SHALL BE EMT WHERE NOT SUBJECT TO PHYSICAL DAMAGE. CONDUITS SHALL BE IMC OR RMC WHERE SUBJECT TO PHYSICAL DAMAGE. PVC CONDUITS ONLY PERMITTED IN BELOW GRADE DUCT BANKS.

5.C. DRAWINGS SHOW RACEWAY LOCATIONS DIAGRAMMATICALLY. CONTRACTOR SHALL ADJUST ROUTING TO SUIT FIELD LOCATIONS. ANY CHANGES TO PROPOSED ROUTING SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL.

5.D. FURNISH AND INSTALL ALL FITTINGS AND SPECIAL DEVICES NECESSARY FOR THE PROPER INSTALLATION, CONNECTION AND OPERATION OF THE SYSTEM. CONDUIT ELBOWS SHALL BE OF THE SAME MAKE, QUALITY AND FINISH AS THE CONDUIT USED.

5.E. A PROTECTIVE COATING OF ASPHALT COMPOUND, PLASTIC SHEATH, OR

- OTHER EQUIVALENT PROTECTION SHALL BE APPLIED TO ANY GALVANIZED STEEL CONDUITS DIRECTLY BURIED IN EARTH.
- 5.F. EMT CONDUIT SHALL USE COMPRESSION RAINIGHT CONNECTORS, FACTORY STAMPED RAINIGHT WITH COMPONENTS PROPERLY INSTALLED.
- 5.G. PROVIDE EXPANSION FITTINGS WITH BONDING JUMPERS FOR EVERY 100' OF STRAIGHT METAL CONDUIT RUN.
- 5.H. CONDUIT EXPANSION AND DEFLECTION FITTINGS WITH BONDING JUMPERS SHALL BE USED WHENEVER CROSSING BUILDING EXPANSION AND SEISMIC SEPARATION JOINTS.
- 5.I. LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. ALL EMPTY CONDUITS OVER 10' IN LENGTH SHALL BE PROVIDED WITH SYNTHETIC FIBER ROPE PULL WIRE.
- 5.J. PATCH AND REPAIR ALL SURFACES DAMAGED BY TRENCHING TO MATCH THE PREVIOUSLY EXISTING CONDITIONS.
- 5.K. 15" WIDE OR LESS BUCKET TO BE USED FOR TRENCHING.
- 5.L. ALL PENETRATIONS SHALL BE SEALED TO MAINTAIN THE EXISTING FIRE RATING.
- 5.M. ALL ROOFTOP CONDUITS SHALL BE MARKED PER LOCAL FIRE CODES.
- 5.N. ALL CONDUITS ENTERING ENCLOSURES SHALL BE FITTED WITH PROTECTIVE BUSHINGS, INCLUDING CONDUIT WITH CONDUCTOR SIZES SMALLER THAN #4 AWG. METALLIC CONDUIT/BUSHINGS SHALL BE BONDED PER NEC.
- 5.O. ALL CONDUIT ENTERING ENCLOSURES SHALL BE SEALED WITH AN APPROVED SEALANT.
6. ELECTRICAL ENCLOSURES
- 6.A. ALL OUTDOOR ENCLOSURES (PANELBOARDS, DISCONNECT SWITCHES, JUNCTION BOXES, COMBINER BOXES, ETC.) SHALL BE NEMA 3R, 4, OR 4X. INDOOR ENCLOSURES SHALL BE NEMA 1.

6.B. PANELBOARD DOORS SHALL BE QUARTER TURN LATCHES OR EXTERNAL HANDLE WITH INTERNAL LATCHES, NO SETS OF EXTERNAL SCREW DOWN CLAMPS.

6.C. CONDUIT TERMINATING IN OUTDOOR ENCLOSURES SHALL USE MYERS-TYPE HUBS WITH GROUND SCREW. UTILIZE RAINIGHT FITTINGS FOR ALL CABLE ENTRIES.

6.D. NO PENETRATIONS OR CABLE ENTRIES IN THE TOP OF OUTDOOR ENCLOSURES. ENTER OUTDOOR ENCLOSURES FROM THE BOTTOM (PREFERRED) OR SIDE.

6.E. ALL ELECTRICAL EQUIPMENT SHALL BE LISTED OR LABELED BY A RECOGNIZED TESTING AGENCY.

6.F. ARC FLASH HAZARD WARNING LABELS SHALL BE PROVIDED AND MOUNTED ON EVERY COMBINER BOX, TERMINAL BOX, INVERTER, AC AND DC SWITCH, TRANSFORMER, AND SWITCHGEAR.

6.G. HAND HOLES, PULL BOXES, OR CONDUIT BODIES SHALL BE INSTALLED (WHETHER OR NOT SHOWN ON DRAWINGS) WHEN THE RACEWAY HAS MORE THAN 360" OF BENDS, OR AS NECESSARY TO NOT EXCEED MANUFACTURER'S MAXIMUM CABLE PULLING TENSION.
7. GROUNDING
- 7.A. THE CONTRACTOR SHALL FURNISH AND INSTALL GROUNDING NECESSARY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
8. TESTS
- 8.A. FINAL TESTS AND INSPECTION SHALL BE HELD IN THE PRESENCE OF OWNER'S REPRESENTATIVES AND TO THEIR SATISFACTION.

8.B. MEGGER TEST ALL DC STRING WIRING, DC COMBINER BOX OUTPUT FEEDERS, AND AC FEEDERS. SUBMIT RESULTS TO OWNER FOR REVIEW.

8.C. HI-POT TEST ALL MEDIUM VOLTAGE FEEDERS IN ACCORDANCE WITH CABLE MANUFACTURER INSTRUCTIONS.

8.D. IV CURVE TRACES OF STRINGS SHALL BE GENERATED USING THE SOLMETRIC PV ANALYZER (OR EQUIVALENT DEVICE) AND SUBMITTED TO OWNER FOR APPROVAL.

8.E. OPEN-CIRCUIT VOLTAGE (Voc) MEASUREMENTS OF ALL DC STRING CONDUCTORS.

8.F. GROUND FAULT PROTECTION SYSTEMS SHALL BE FUNCTIONAL TESTED IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS (NEC 230.95(C))

8.G. MEDIUM VOLTAGE EQUIPMENT SHALL BE TESTED IN ACCORDANCE WITH NEC 230.95 AND PER MANUFACTURER INSTRUCTIONS.
- 281GENERAL NOTES
1. THE GENERAL NOTES APPLY TO ALL DRAWINGS UNDER THE CONTRACT. REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL NOTES.

2. DRAWINGS ARE DIAGRAMS AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT OF WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM, SPACE CONDITIONS, AND REQUIRED CLEARANCES.

3. PV SYSTEM CONTRACTOR SHALL COORDINATE ALL THE WORK WITH THE ENGINEER, THE CONSTRUCTION MANAGER AND ALL OTHER CONTRACTORS TO INSURE THAT THE PV SYSTEM IS INSTALLED AS SPECIFIED IN THESE DRAWINGS.

4. PERSONAL PROTECTIVE EQUIPMENT (PPE) SHALL BE PROVIDED AS REQUIRED IN ACCORDANCE WITH NEC 70E AND OSHA REQUIREMENTS.

5. UNFORSEEN OBSTRUCTIONS ON THE SITE MAY NECESSITATE A CHANGE IN THE LAYOUT. ANY CHANGES TO THE RACKING LAYOUT SHOULD BE REPORTED TO THE ENGINEER. CHANGES IN UP TO 5% OF THE MODULES SHOULD BE ANTICIPATED. CHANGES TO THE ARRAY LAYOUT SHOULD BE MADE AS TO NOT IMPACT THE NUMBER OF MODULES ON A COMBINER BOX OR INVERTER.

6. LANDSCAPING: RESTORE TO ORIGINAL CONDITIONS.

7. ALL STRUCTURAL AND MISCELLANEOUS EXTERIOR STEEL, INCLUDING STRUT CHANNEL (SUCH AS UNISTUT OR KINDORF) SHALL BE CORROSION RESISTANT, HOT DIP GALVANIZED OR GALVANNEALED WITH A COATED FINISH MINIMUM.

LEGEND – GENERAL

- LIGHT LINE INDICATES EXISTING OR BEYOND THE SCOPE OF PROJECT
- DARK LINE INDICATES NEW OR WITHIN THE SCOPE OF PROJECT
- DASHED LINE INDICATES EQUIPMENT AT A DIFFERENT ELEVATION
- EXISTING TEXT

LIGHT TEXT INDICATES EXISTING OR BEYOND THE SCOPE OF PROJECT
- NEW TEXT

DARK TEXT INDICATES NEW OR WITHIN THE SCOPE OF PROJECT

LEGEND – PLAN SYMBOLS

- SOLAR MODULE
- RACEWAY TURNING UP OR TOWARDS OBSERVER
- RACEWAY TURNING DOWN OR AWAY FROM OBSERVER
- CABLE TRAY
- OR

PULLBOX
- OR

JUNCTION BOX
- PANEL BOARD
- LOCAL DISCONNECT SWITCH
- SIMPLEX RECEPTACLE, RATED: 125–VOLTS AC, 20A
- DUPLEX RECEPTACLE, RATED: 125–VOLTS AC, 20A
- WEATHERPROOF DUPLEX RECEPTACLE, RATED: 125–VOLTS AC, 20A
- GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE, RATED: 125–VOLTS AC, 20A
- DOUBLE DUPLEX (QUAD) RECEPTACLE
- CEILING/PENDANT–MOUNT LIGHT, SEE FIXTURE SCHEDULE FOR TYPE
- WALL–MOUNT LIGHT, SEE FIXTURE SCHEDULE FOR TYPE
- GROUND ROD
- GROUND ROD W/ TEST WELL

LEGEND – ONE LINE DIAGRAM AND WIRING DIAGRAM SYMBOLS

- CIRCUIT BREAKER, FRAME SIZE AND TRIP SETTING AS NOTED
- DISCONNECT SWITCH
- INVERTER
- BUS CONNECTION POINT
- CROSSING POINT (NO CONNECTION)
- NORMALLY CLOSED – NORMALLY OPEN CONTACTS
- TRANSFORMER CONTROL/POWER, SIZE AND RATING AS NOTED
- CURRENT TRANSFORMER
- POTENTIAL TRANSFORMER
- FUSE, SIZE/RATING AS NOTED
- FUSED DISCONNECT SWITCH
- EARTH GROUND
- PUSHBUTTON SWITCHES; NUMBER AND TYPE OF CONTACT BLOCKS MAY VARY
- PUSHBUTTON SWITCHES MUSHROOM HEAD; NUMBER AND TYPE OF CONTACT BLOCKS MAY VARY
- KEYED INTERLOCK (KIRK KEY OR EQ.)
- SHUNT TRIP COIL

ABBREVIATIONS

- A

AERMS

AF

A.F.F.

A.F.G.

AFDI

AIC

AT

ATS

AWG

BKR

C

CB

CKT

COU

CP

CU

DISC

EGC

ELEC

EMERG

EMT

EQUIP

EXIST

G, GND

GEC

GFCI

GFPE

HID

HZ

IMC

KAIC

KCMIL

kVA

kW

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XFMR

ø
- AMPERES

ARC ENERGY REDUCING MAINTENANCE SWITCH

AMPERE FRAME

ABOVE FINISH FLOOR

ABOVE FINISH GRADE

ARC FAULT DETECTION & INTERRUPTER

AMPS INTERRUPTING CAPACITY

AMPERE TRIP

AUTOMATIC TRANSFER SWITCH

AMERICAN WIRE GAUGE

CIRCUIT BREAKER

CONDUIT

COMBINER BOX

CIRCUIT

CONDITIONS OF USE

CONTROL PANEL

COPPER

DISCONNECT

EQUIPMENT GROUNDING CONDUCTOR

ELECTRIC, ELECTRICAL

EMERGENCY

ELECTRICAL METALLIC TUBING

EQUIPMENT

EXISTING

GROUND

GROUNDING ELECTRODE CONDUCTOR

GROUND–FAULT CIRCUIT INTERRUPTER

GROUND–FAULT PROTECTION OF EQUIPMENT

HIGH–INTENSITY DISCHARGE (LIGHTING)

HERTZ

INTERMEDIATE METALLIC CONDUIT

1000 AMPS INTERRUPT CAPACITY

1000 CIRCULAR MILLS

KILO–VOLT AMPERE

KILOWATT

LIGHTNING & SURGE ARRESTOR

LIGHT–EMITTING DIODE

LONG, SHORT, INSTANTANEOUS, & GROUND FAULT

LIGHTING

MAXIMUM

MANUFACTURER

MAIN LUGS ONLY

MODULE LEVEL POWER ELECTRONICS

MAXIMUM POWER POINT TRACKING

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

NOT TO SCALE

POLE

POWER FACTOR

PROGRAMMABLE LOGIC CONTROLLER

PLANE OF ARRAY

POINT OF INTERCONNECTION

PRIMARY

POLYVINYL CHLORIDE

POWER

RECEPTACLE

RIGID GALVANIZED STEEL CONDUIT

RIGID METAL CONDUIT

SURGE ARRESTOR

SECONDARY

SURGE PROTECTION DEVICE

SUPPLY SIDE BONDING JUMPER

SHUNT TRIP

SHIELDED TWISTED PAIR

SWITCH

TO BE DETERMINED

TWISTED PAIR

TYPICAL

VOLT

VOLT–AMPERE

WATT

WEATHERPROOF

TRANSFORMER

DIAMETER OR PHASE

NOTES SPECIFIC TO NEW YORK

- ADOPTED NEC VERSION: 2017
ADOPTED IBC VERSION: 2018
ADOPTED IFC VERSION: 2018
- UTILITY: CONSOLIDATED EDISON (CONED)
- UTILITY DISCONNECT SWITCH REQUIREMENTS:
GENERATING EQUIPMENT WITH SYSTEM SIZE LARGER THAN 25 KW SHALL BE CAPABLE OF BEING ISOLATED FROM THE UTILITY SYSTEM BY MEANS OF AN EXTERNAL, MANUAL, VISIBLE, GANG-OPERATED, LOAD BREAK DISCONNECTING SWITCH. THE DISCONNECT SWITCH SHALL BE LOCATED WITHIN 10 FEET OF THE UTILITY'S EXTERNAL ELECTRIC SERVICE METER.

PROJECT

76.12 KW SOLAR ROOFTOP SYSTEM AT ST. DENIS COMMUNITY SCHOOL

121 MCCLEAN AVE
YONKERS, NY 10705

DC SYSTEM SIZE: 76.12 kW
AC SYSTEM SIZE: 72.00 kW
MODULE TYPE: CS3W-440MB-AG
MODULE QUANTITY: 173
STRING QUANTITY: 13
SERIAL QUANTITY: 13
ORIENTATION: 10° TILT, 153° AZIMUTH

DC SYSTEM SIZE: 76.12 kW
AC SYSTEM SIZE: 72.00 kW
MODULE TYPE: CS3W-440MB-AG
MODULE QUANTITY: 173
STRING QUANTITY: 13
SERIAL QUANTITY: 13
ORIENTATION: 10° TILT, 153° AZIMUTH

DEVELOPER

BARILE CALLAGHER & ASSOCIATES
38 PLEASANTVILLE, NY 10570
WWW.BCA-ENG.COM

ENGINEER

PUREPOWER
111 RIVER STREET
YONKERS, NY 10701
WWW.PUREPOWER.COM
RICHARD A. WINS
NY LICENSE NO. 031197

DATE

07/14/2021

REVISION DESCRIPTION

AK AA RI



—DC— DC CIRCUIT IN CONDUIT
—AC— AC CIRCUIT IN CONDUIT
—COM— COMMUNICATIONS

AC ELECTRICAL PLAN

DRAWING #
PE100

PLUT DATE: 10/09/2021 4:45 PM

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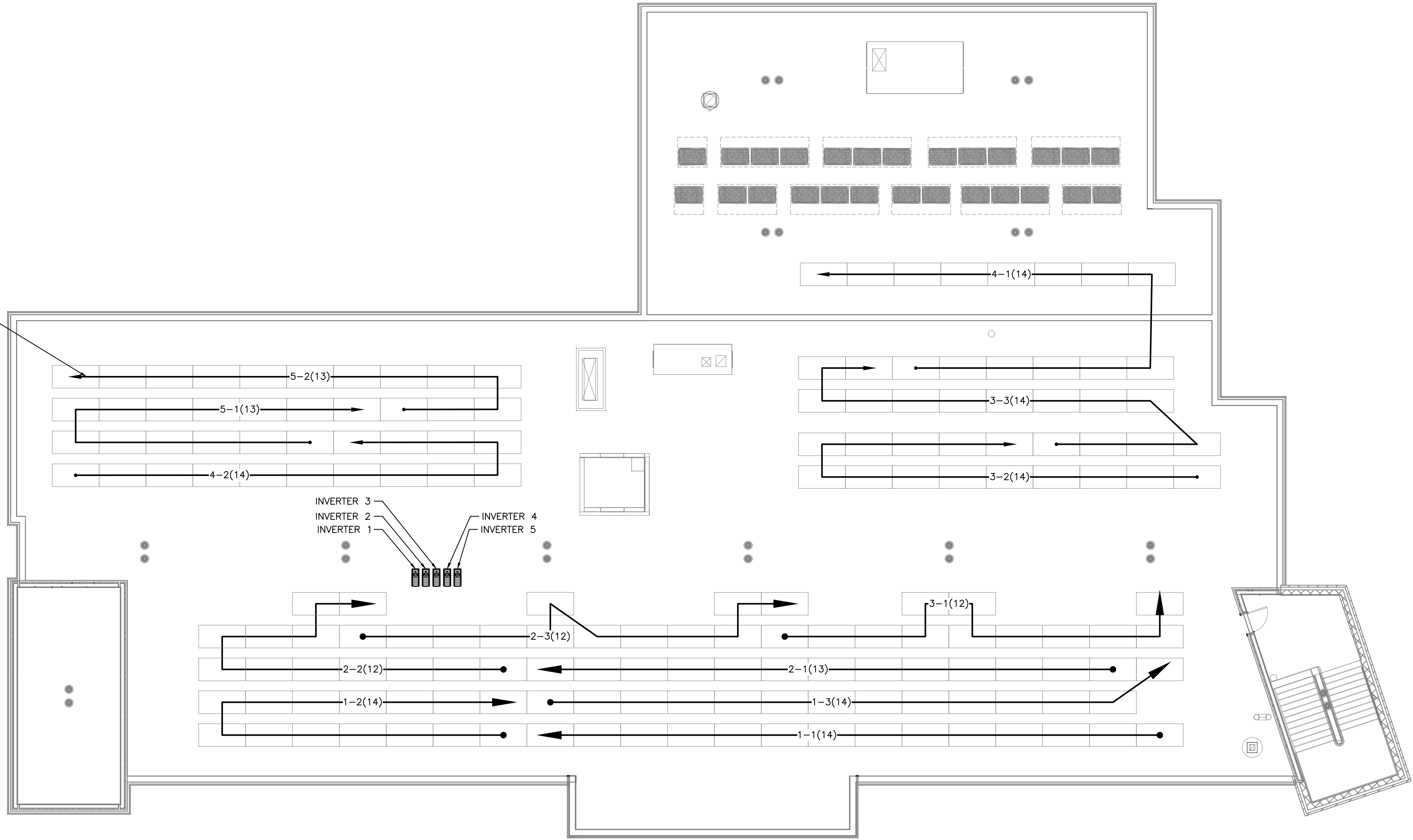
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RULER IN INCHES:

HOMERUNS & INTERMODULE
WIRING SECURED TO UNDERSIDE
OF MODULE OR AGAINST RACKING

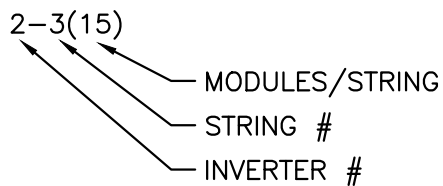


IMPORTANT
CONTRACTOR MUST:
1. REDLINE DRAWINGS TO REFLECT
EXACT AS-BUILT STRINGING AND
RETURN TO PURE POWER.
2. CREATE MAP OF SOLAREEDGE
POWER OPTIMIZER ADDRESSING
AND RETURN TO SOLAREEDGE.

1 DC ELECTRICAL PLAN
PE200 SCALE: 1" = 10'-0"



STRING LABEL KEY



DRAWING TITLE
DC ELECTRICAL PLAN

PROJECT: 76.12 KW SOLAR ROOFTOP SYSTEM AT
ST. DENIS COMMUNITY SCHOOL
121 MCCLEAN AVE
YONKERS, NY 10705

DRAWING #
PE200

DC SYSTEM SIZE: 76.12 kW
AC SYSTEM SIZE: 72.00 kW
MODULE TYPE: CS3W-440MB-AG
MODULE QUANTITY: 173
STRING QUANTITY: 13
ORIENTATION: 10° TILT, 153° AZIMUTH

PAGE SIZE
36" x 24"
PROJECT #
01541

DEVELOPER
BARILE GALLAGHER & ASSOCIATES
350 WEST 10TH STREET
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PUREPOWER
ENGINEERING
111 RIVER STREET
PLEASANTVILLE, NY 10570
WWW.PUREPOWER.COM
RICHARD A. WINS
NY LICENSE NO. 051197

DATE	REVISION DESCRIPTION	PM	ENG	CHK
10/08/2021	SED SUBMISSION REV1	AK	AA	RI
07/14/2021	SED SETS	AK	AA	RI

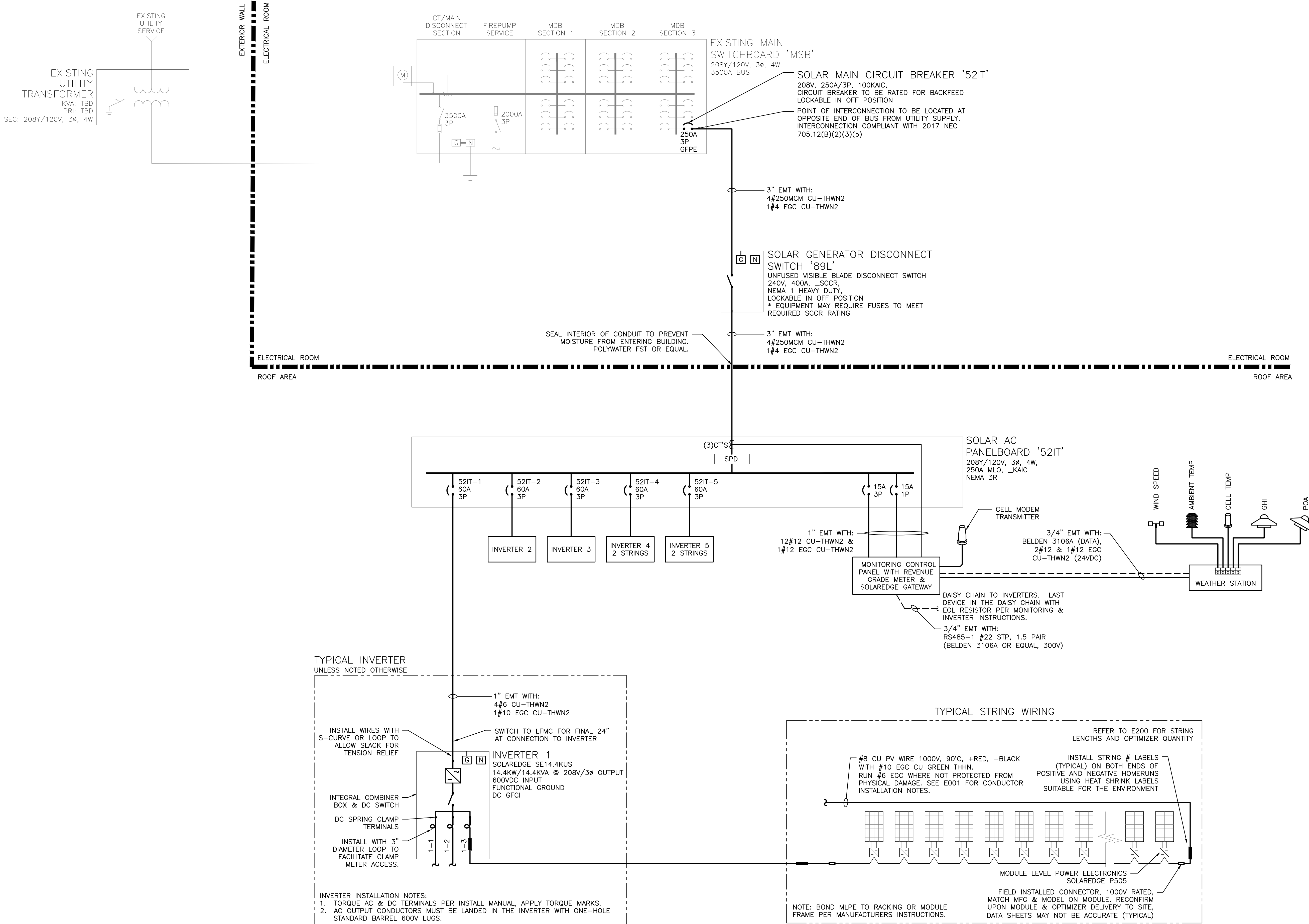
CONDUIT FILL TABLE		
MAXIMUM NUMBER OF CU #8 PV WIRES, (WITH ALLOWANCE FOR AN ADDITIONAL GROUND WIRE)		
CONDUIT TRADE SIZE	CONDUIT LENGTH 24" OR LESS (60% FILL)	CONDUIT LENTH OVER 24" (40% FILL)
3/4"	3	2
1"	6	4
1.25"	11	7
1.5"	15	9
2"	25	9
2.5"	45	9
3"	68	9
3.5"	89	9
4"	114	9

TABLE ASSUMING: EMT CONDUIT AND CU #8 PV WIRE WITH 0.31in O.D., 0.96 TEMP. DERATE
DC OPTIMIZER OUTPUT CIRCUIT WITH 15A OUTPUT, 3 IN PARALLEL, AND NO FUSES

NEC 690.12 RAPID SHUTDOWN NOTE:
THIS SYSTEM INCLUDES MODULE-LEVEL POWER ELECTRONICS
WHICH SHUTDOWN DC VOLTAGE AT THE MODULE LEVEL WHEN
AC POWER GOES OUT. TIMING AND VOLTAGE LEVELS ARE IN
COMPLIANCE WITH NEC 690.12 RAPID SHUTDOWN.

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PLOT DATE: 10/8/2021 4:45 PM



1 ONE LINE DIAGRAM
PE300/SCALE: NONE

PROJECT 76.12 KW SOLAR ROOFTOP SYSTEM AT ST. DENIS COMMUNITY SCHOOL 121 MCCLEAN AVE YONKERS, NY 10705	DEVELOPER BARILE GALLAGHER & ASSOCIATES 350 E. PLEASANTVILLE AVE PLEASANTVILLE, NY 10570 WWW.BGA-ENG.COM	PAGE SIZE 36" x 24" PROJECT # 01541	DC SYSTEM SIZE: 76.12 kW AC SYSTEM SIZE: 72.00 kW MODULE TYPE: CS3W-440MB-AG MODULE QUANTITY: 173 STRING QUANTITY: 13 ORIENTATION: 10° TILT, 153° AZIMUTH	DATE 07/14/2021	REVISION DESCRIPTION PM ENG CHK	AK	AA	RI
						AK	AA	RI
						AK	AA	RI

AC FEEDER CALCULATIONS

AC FEEDER CALCULATIONS																	
EQUIPMENT SUPPLIED	FED FROM	VOLTAGE	FULL LOAD AMPS 'FLA'	FLA x 1.25	OCPD SIZE	GROUND SIZE	CONDUCTORS PER PHASE	PHASE CONDUCTOR SIZE	NEUTRAL CONDUCTOR SIZE	75° AMPACITY	90° AMPACITY	90° AMPACITY WITH C.O.U.	C.O.U. DERATE AMBIENT TEMP	C.O.U. DERATE CONDUIT FILL	FEEDER LENGTH (FEET)	SEGMENT VOLTAGE DROP AT FLA	TOTAL VOLTAGE DROP AT FLA
SOLAR SYSTEM AC DISCONNECT	POINT OF INTERCONNECTION	208	200.0	250.0	250	CU #4	1	CU 250MCM	CU 250MCM	255	290	278.4	0.96	1.00	30	0.27%	0.27%
SOLAR AC PANELBOARD	SOLAR SYSTEM AC DISCONNECT	208	200.0	250.0	250	CU #4	1	CU 250MCM	CU 250MCM	255	290	278.4	0.96	1.00	70	0.63%	0.90%
INVERTER 1	SOLAR AC PANELBOARD	208	40.0	50.0	60	CU #10	1	CU #6	CU #6	65	75	72	0.96	1.00	10	0.16%	1.06%
INVERTER 2	SOLAR AC PANELBOARD	208	40.0	50.0	60	CU #10	1	CU #6	CU #6	65	75	72	0.96	1.00	15	0.24%	1.14%
INVERTER 3	SOLAR AC PANELBOARD	208	40.0	50.0	60	CU #10	1	CU #6	CU #6	65	75	72	0.96	1.00	20	0.33%	1.23%
INVERTER 4	SOLAR AC PANELBOARD	208	40.0	50.0	60	CU #10	1	CU #6	CU #6	65	75	72	0.96	1.00	25	0.41%	1.31%
INVERTER 5	SOLAR AC PANELBOARD	208	40.0	50.0	60	CU #10	1	CU #6	CU #6	65	75	72	0.96	1.00	30	0.49%	1.39%

AVERAGE AC VOLTAGE DROP
FROM POI TO INVERTERS: 1.04%

NOTE: DISTANCES ARE ESTIMATES GENERATED FOR ENGINEER'S CALCULATIONS, CONTRACTOR IS RESPONSIBLE FOR OWN MEASUREMENTS AND TAKEOFFS.

MODULE SPECIFICATIONS	
MAKE/MODEL	CS3W-440MB-AG
POWER [W]	440
ISC [A]	11.48
IMP [A]	10.82
VOC [V]	48.30
VMP [V]	40.10
β VOC [%/degC]	-0.290%
SITE CLIMATE CRITERIA	
ASHRAE HIGH [°C]	33
ASHRAE LOW [°C]	-14
STRING SPECIFICATIONS AT STC	
MODULES/STRING	15
POWER [W]	6600
STRING ISC [A]	11.48
STRING IMP [A]	10.82
STRING VMP [V]	601.50
STRING MAX VOLTAGE CALCULATION	
VOC TEMP ADJUSTMENT @ -14 °C	1.11
VOC @ -14 °C [V]	53.76
MAX STRING VOC [V]	806.4
STRING CALCULATIONS REFER TO THE PV SIDE OF DC OPTIMIZERS, NOT TO THE OPTIMIZER OUTPUT CIRCUIT	

DC STRING WIRING CALCULATION	
OPTIMIZER OUTPUT [AMPS]	15.00
MAX CONTINUOUS FAULT CURRENT FROM PARALLEL SOURCES [AMPS]	30.00
1.25x MAX CONTINUOUS FAULT CURRENT [AMPS]	37.50
MAX # OF WIRES PER CONDUIT	9
CONDUIT FILL DERATE	0.7
MAX AMBIENT TEMPERATURE	33
TEMPERATURE DERATE	0.96
WIRE GAUGE	CU #8
75DEG AMPACITY WITHOUT COU ADJUSTEMENT [AMPS]	50
IS 75 DEG AMPACITY WITHOUT COU ADJUSTEMENT >= 1.25x MAX CIRCUIT CURRENT?	YES. COMPLIES WITH 690.8(B)(1)
90DEG AMPACITY WITH COU ADJUSTMENT [AMPS]	36.96
IS 90DEG AMPACITY WITH COU ADJUSTMENT >= 1.0x MAX CIRCUIT CURRENT?	YES. COMPLIES WITH 690.8(B)(2)
DC OPTIMIZER OUTPUT CIRCUIT FUSE RATING [AMPS]	None
AVAILABLE FAULT CURRENT FROM ALL PARALLEL SOURCES [AMPS]	45
IS 90DEG AMPACITY WITH COU ADJUSTMENT >= AVAILABLE FAULT CURRENT?	YES. COMPLIES WITH 690.9(A) EXCEPTION

INVERTER SPECIFICATIONS	
RATED AC OUTPUT POWER	14400 W
NOMINAL AC OUTPUT VOLTAGE	208Y/120 V
MAX. AC OUTPUT CURRENT	40 A

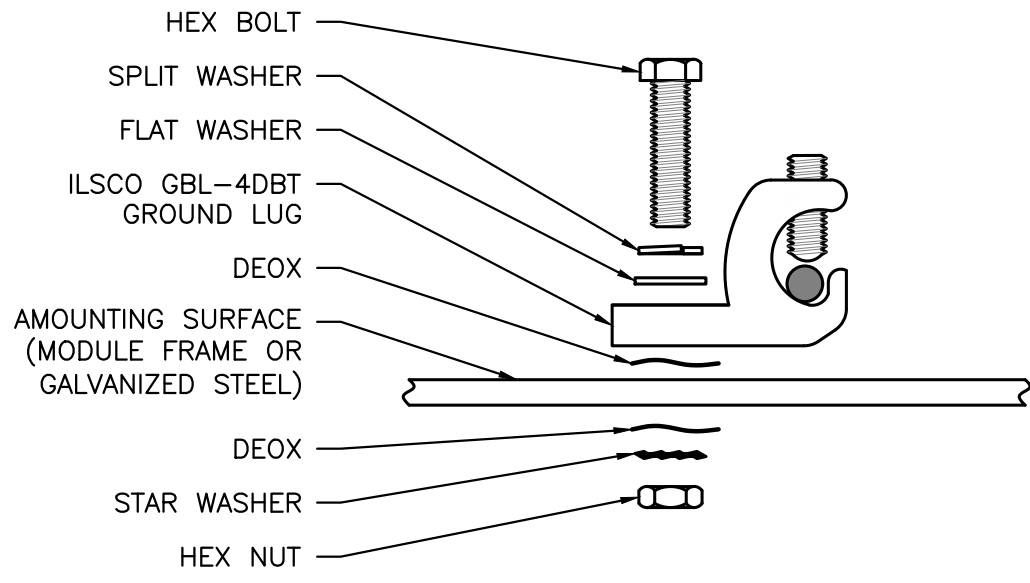
INVERTER PROTECTIVE SETTINGS	
PARAMETERS	SET AT
AC FREQUENCY RANGE	59.3 Hz – 60.5 Hz (DEFAULT)
AC VOLTAGE RANGE	244 V – 305 V (DEFAULT)
POWER FACTOR	1.0 (DEFAULT)
OVERFREQUENCY TRIP TIME	0.16S (DEFAULT)
UNDERFREQUENCY TRIP TIME	0.16S (DEFAULT)
OVERVOLTAGE TRIP TIME (FAST)	0.16S (DEFAULT)
OVERVOLTAGE TRIP TIME (SLOW)	1.0S (DEFAULT)
UNDERVOLTAGE TRIP TIME (FAST)	0.16S (DEFAULT)
UNDERVOLTAGE TRIP TIME (SLOW)	2.0S (DEFAULT)

INVERTERS 1-5	
STRING WIRE GAUGE	8AWG-CU
DC IMPEDANCE [OHM/KFT]	0.8090
OPERATING VOLTAGE [VDC]	602
OPERATING CURRENT [AMP]	10.8

INVERTERS 1-5		
STRING NUMBER	TOTAL STRING DISTANCE [FT]	STRING VOLTAGE DROP
1-1	85	0.25%
1-2	30	0.09%
1-3	80	0.23%
2-1	70	0.20%
2-2	25	0.07%
2-3	30	0.09%
3-1	80	0.23%
3-2	105	0.30%
3-3	115	0.33%
4-1	135	0.39%
4-2	50	0.15%
5-1	60	0.17%
5-2	55	0.16%
AVERAGE VOLTAGE DROP		0.21%

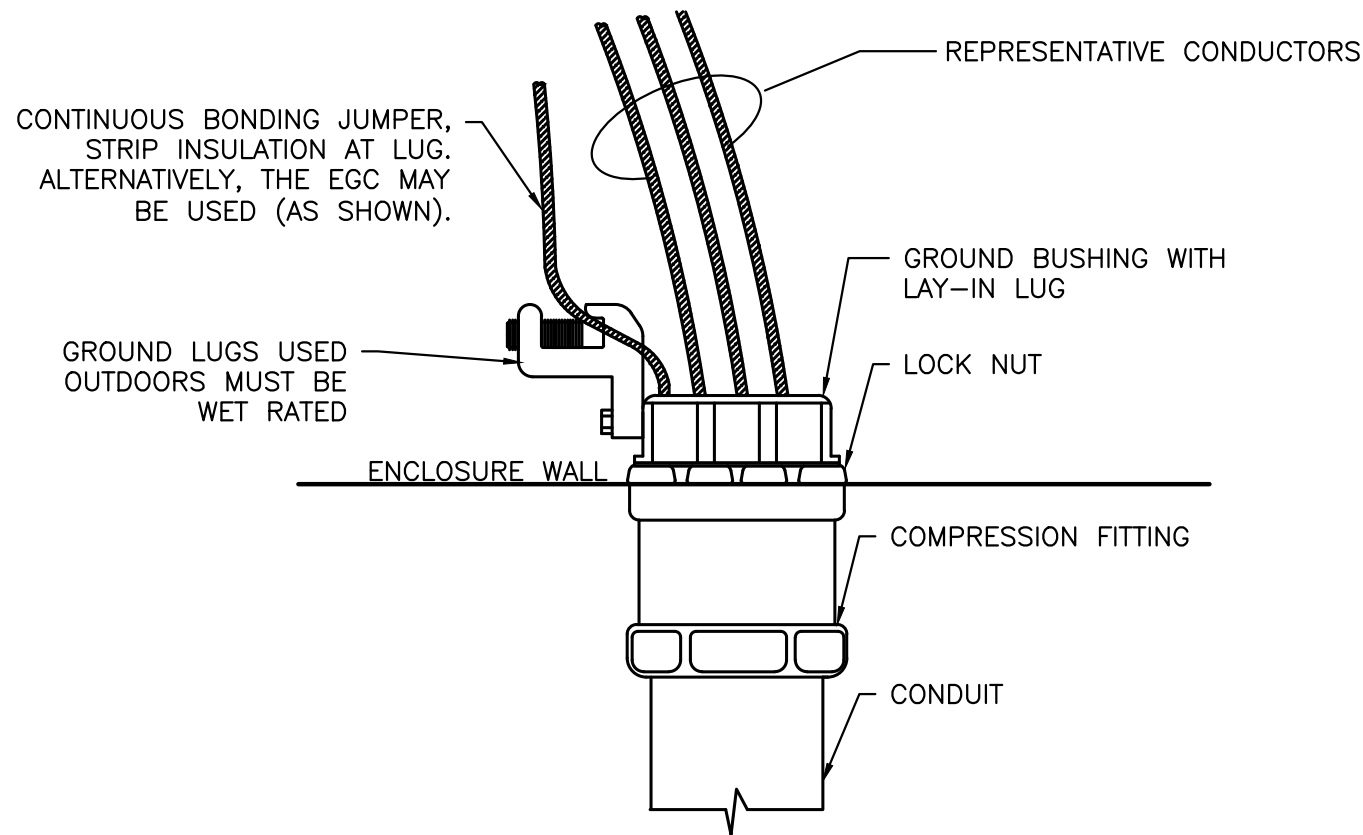
NOTE: DISTANCES ARE ESTIMATES GENERATED FOR ENGINEER'S CALCULATIONS, CONTRACTOR IS RESPONSIBLE FOR OWN MEASUREMENTS AND TAKEOFFS.

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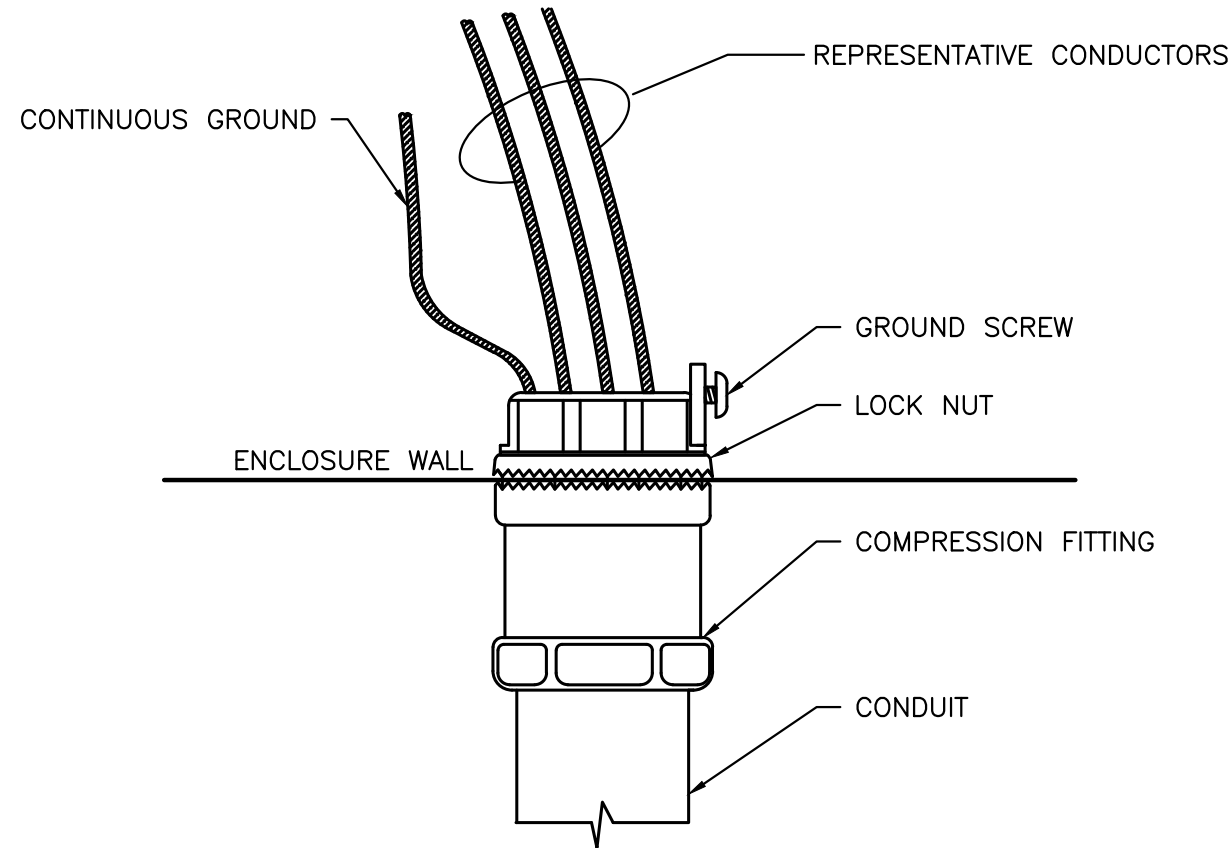


- NOTES
1. ALL HARDWARE TO BE STAINLESS STEEL.
2. REFER TO ILSCO MANUAL FOR ADDITIONAL REQUIREMENTS AND TORQUE VALUES

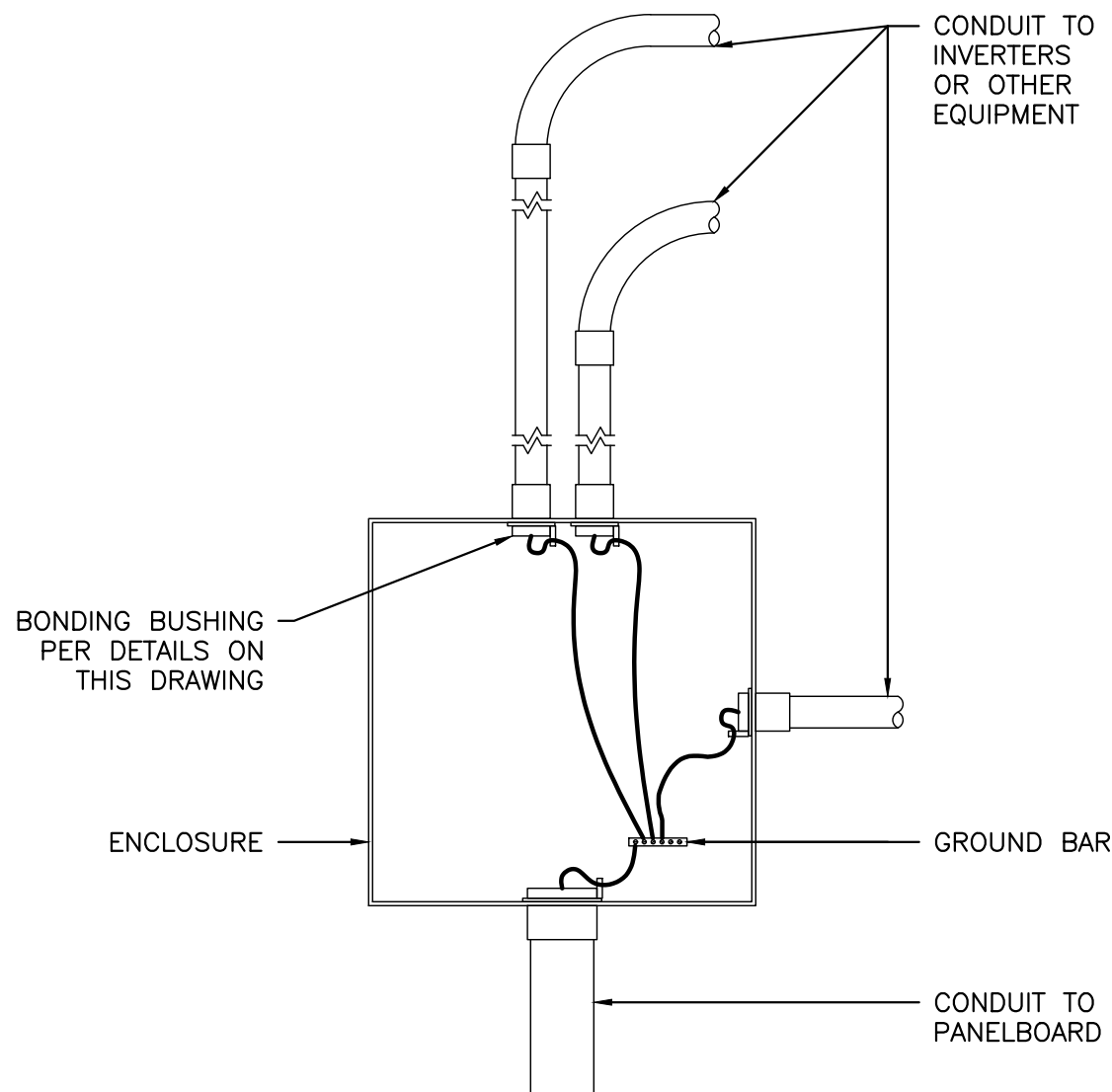
1 GROUND LUG DETAIL – ILSCO
PE401/ SCALE: NONE



2 BONDING BUSHING GROUNDING DETAIL
PE401/ SCALE: NONE



3 MYER'S HUB GROUNDING DETAIL
PE401/ SCALE: NONE



4 PULL BOX/TROUGH GROUNDING DETAIL
PE401/ SCALE: NONE

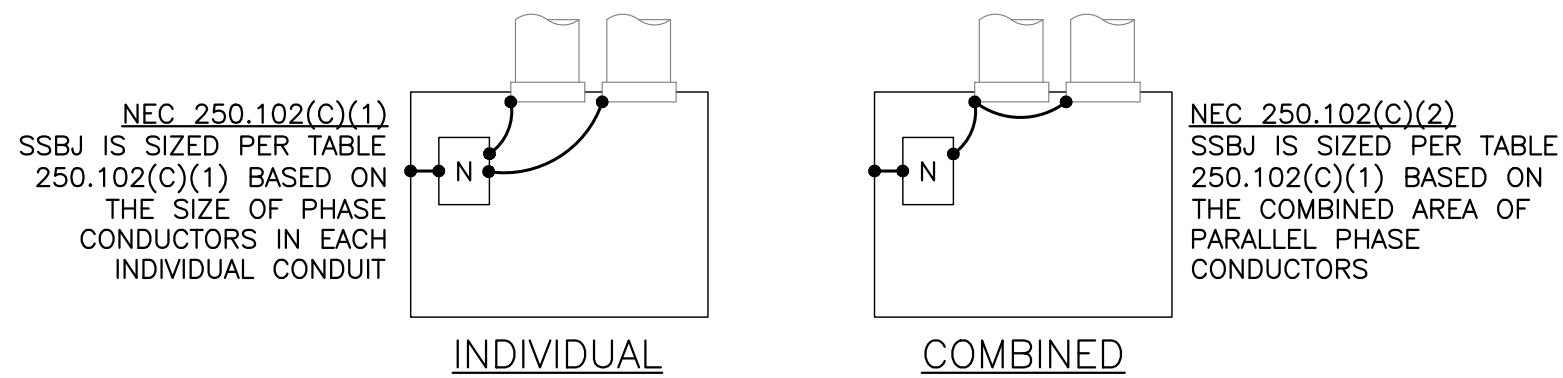


TABLE 250.102(C)(1)			
SIZE OF LARGEST UNGROUNDED CONDUCTOR OR EQUIVALENT AREA FOR PARALLEL CONDUCTORS (AWG/KCMIL)		SIZE OF GROUNDED CONDUCTOR OR BONDING JUMPER (AWG/KCMIL)	
COPPER	ALUMINUM OR COPPER-CLAD ALUMINUM	COPPER	ALUMINUM OR COPPER-CLAD ALUMINUM
2 OR SMALLER	1/0 OR SMALLER	8	6
1 OR 1/0	2/0 OR 3/0	6	4
2 OR 2/0	4/0 OR 250	4	2
OVER 3/0 THROUGH 350	OVER 250 THROUGH 500	2	1/0
OVER 350 THROUGH 600	OVER 500 THROUGH 900	1/0	3/0
OVER 600 THROUGH 1100	OVER 900 THROUGH 1750	2/0	4/0
OVER 1100	OVER 1750	REFER TO NOTES IN NEC TABLE 250.102(C)(1)	

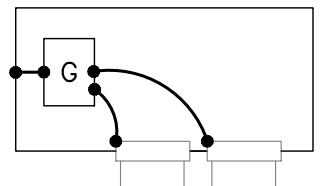
5 SUPPLY SIDE BONDING JUMPERS (SSBJ)
PE401/ SCALE: NONE

A) FOR CONCENTRIC KNOCKOUTS, USE BONDING JUMPERS AS FOLLOWS:

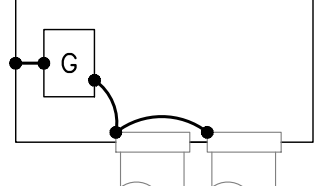
OVERCURRENT DEVICE CIRCUIT NOT EXCEEDING (AMPERES)	SIZE (AWG OR KCMIL)	
	COPPER	ALUMINUM
15	14	12
20	12	10
60	10	8
100	8	6
200	6	4
300	4	2
400	3	1
500	2	1/0
600	1	2/0
800	1/0	3/0
1000	2/0	4/0
1200	3/0	250
1600	4/0	350
2000	250	400
2500	350	600
3000	400	600
4000	500	750

FOR PARALLEL FEEDERS – NEC 250.102(D)
EQUIPMENT BONDING JUMPER IS SIZED PER TABLE 250.122, REGARDLESS IF COMBINED OR INDIVIDUAL BONDING JUMPERS ARE USED

1) INDIVIDUAL



2) COMBINED

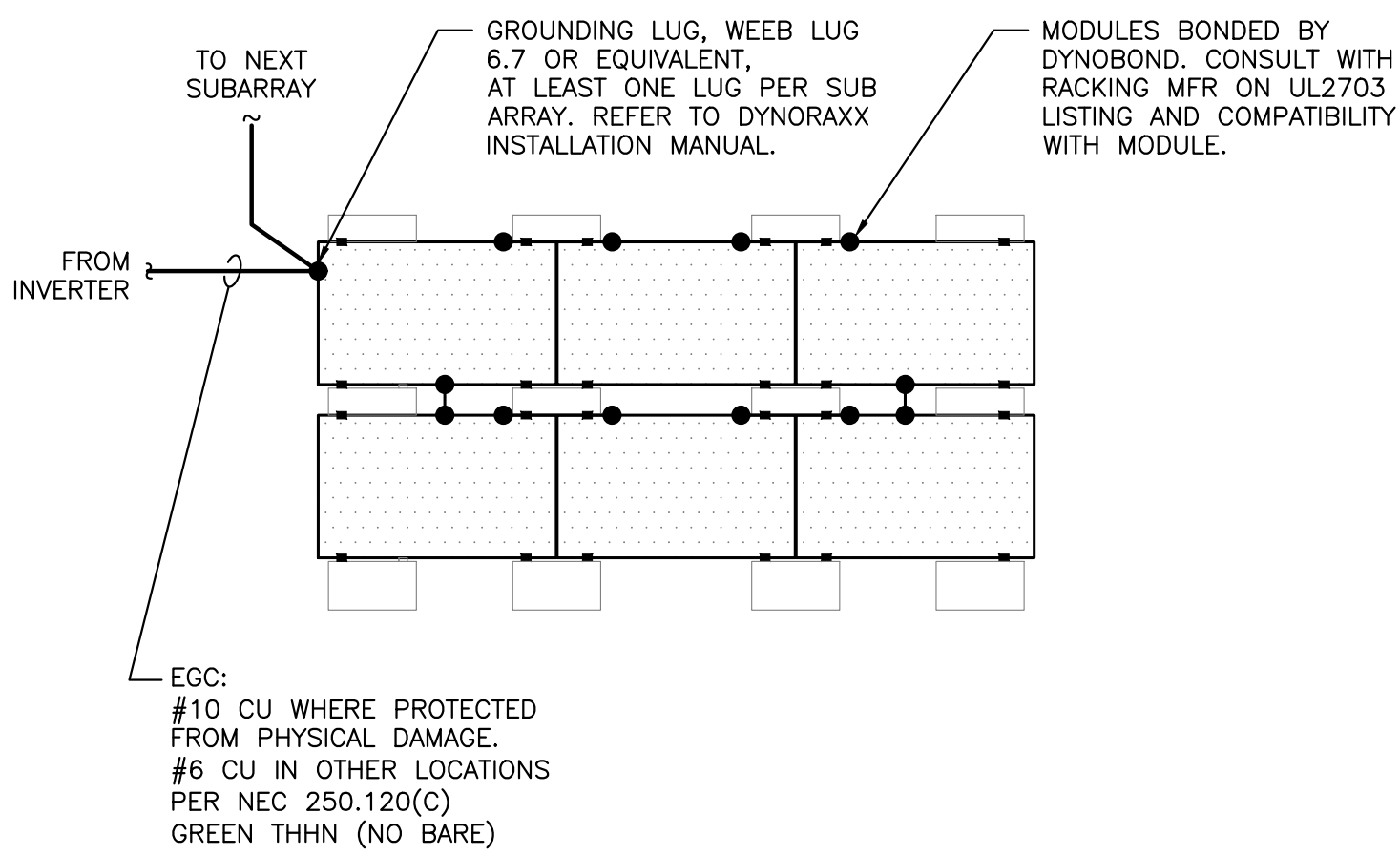


B) FOR NON-CONCENTRIC KNOCKOUTS, THE FOLLOWING METHODS SHALL BE PERMITTED (PER NEC 250.97)

- 1) THREADLESS COUPLINGS AND CONNECTORS FOR CABLES WITH METAL SHEATS
- 2) TWO LOCKNUTS, ON RIGID METAL CONDUIT OR INTERMEDIATE METAL CONDUIT, ONE INSIDE AND ONE OUTSIDE OF BOXES AND CABINETS
- 3) FITTINGS WITH SHOULDERS THAT SEAT FIRMLY AGAINST THE BOX OR CABINET, SUCH AS ELECTRICAL METALLIC TUBING CONNECTORS, FLEXIBLE METAL CONDUIT CONNECTORS, AND CABLE CONNECTORS, WITH OR LOCKNUT ON THE INSIDE OF BOXES AND CABINETS
- 4) LISTED FITTINGS (SUCH AS MEYERS HUB)

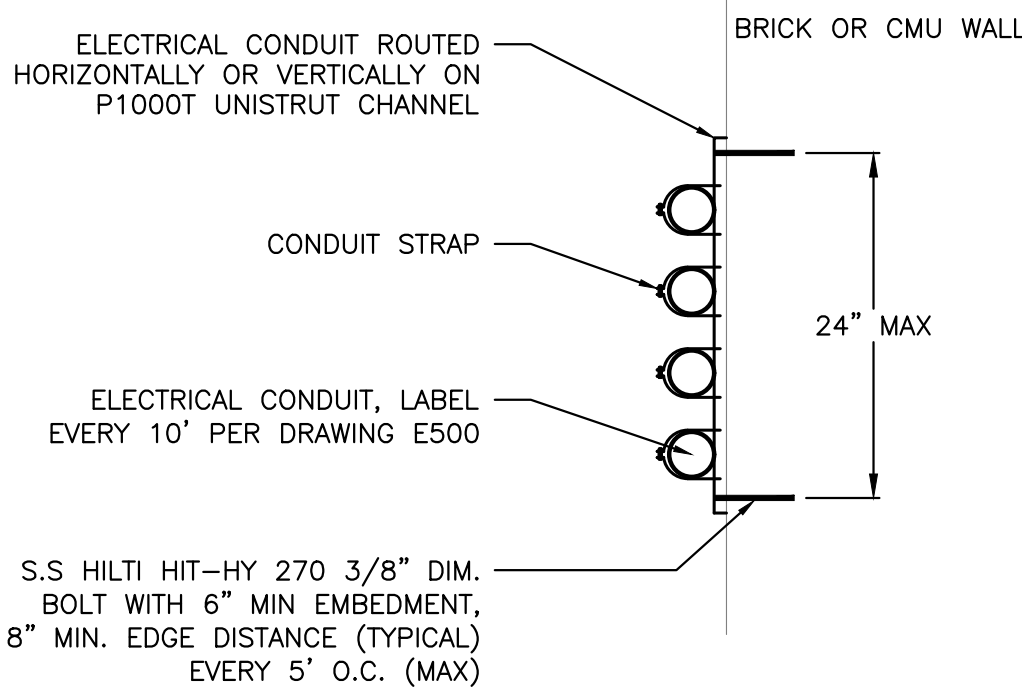
6 LOAD SIDE EQUIPMENT BONDING JUMPER
PE401/ SCALE: NONE

- NOTES:
1. EACH SUBARRAY CONNECTED TO AN INVERTER SHALL HAVE AN EGC RUN TO THAT INVERTER
2. PV MODULES AND RAILS GROUNDED PER NEC 690.43

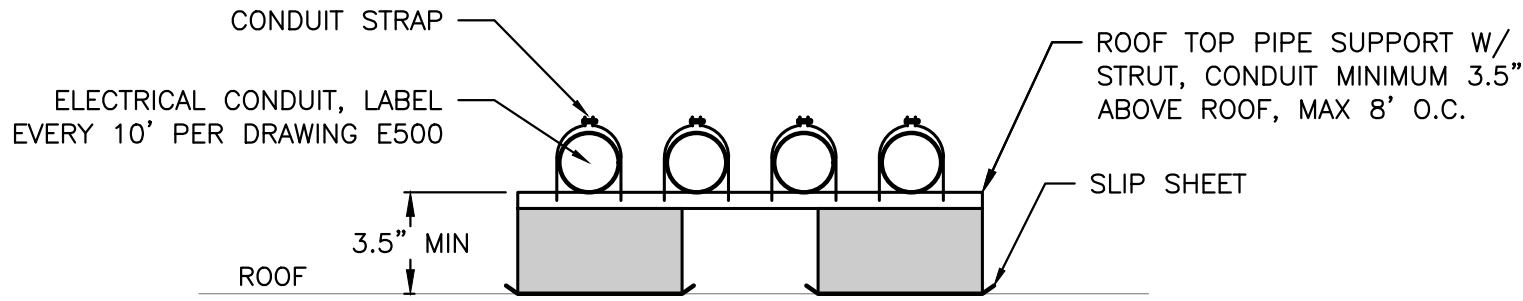


7 ARRAY GROUNDING – DYNAROMX RACKING
PE401/ SCALE: NONE

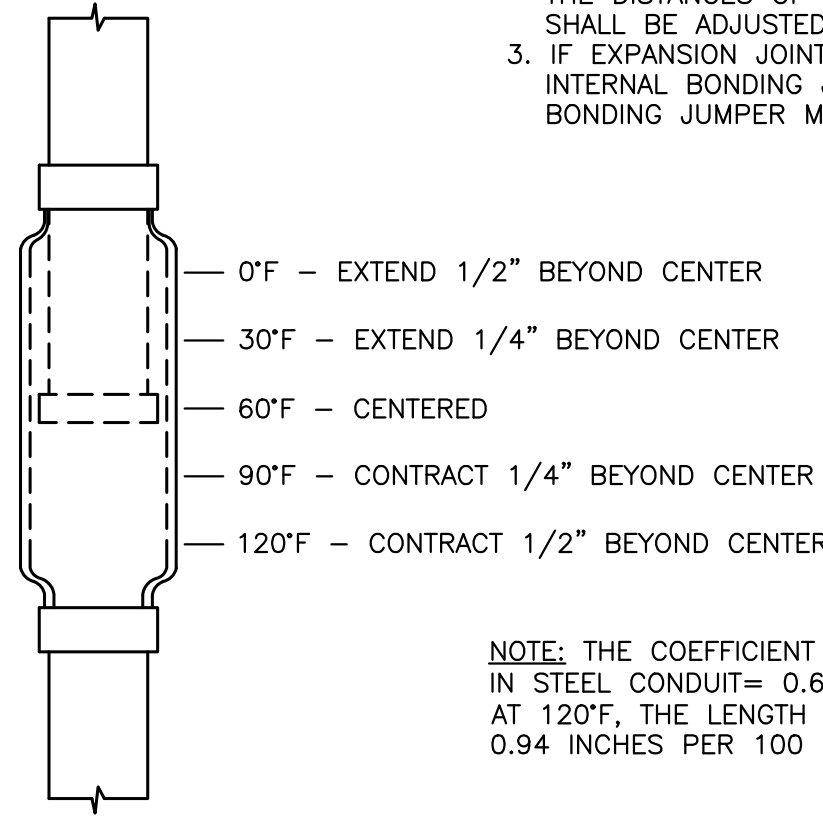
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1 CONDUIT WALL ANCHORING
PE402 SCALE: NONE



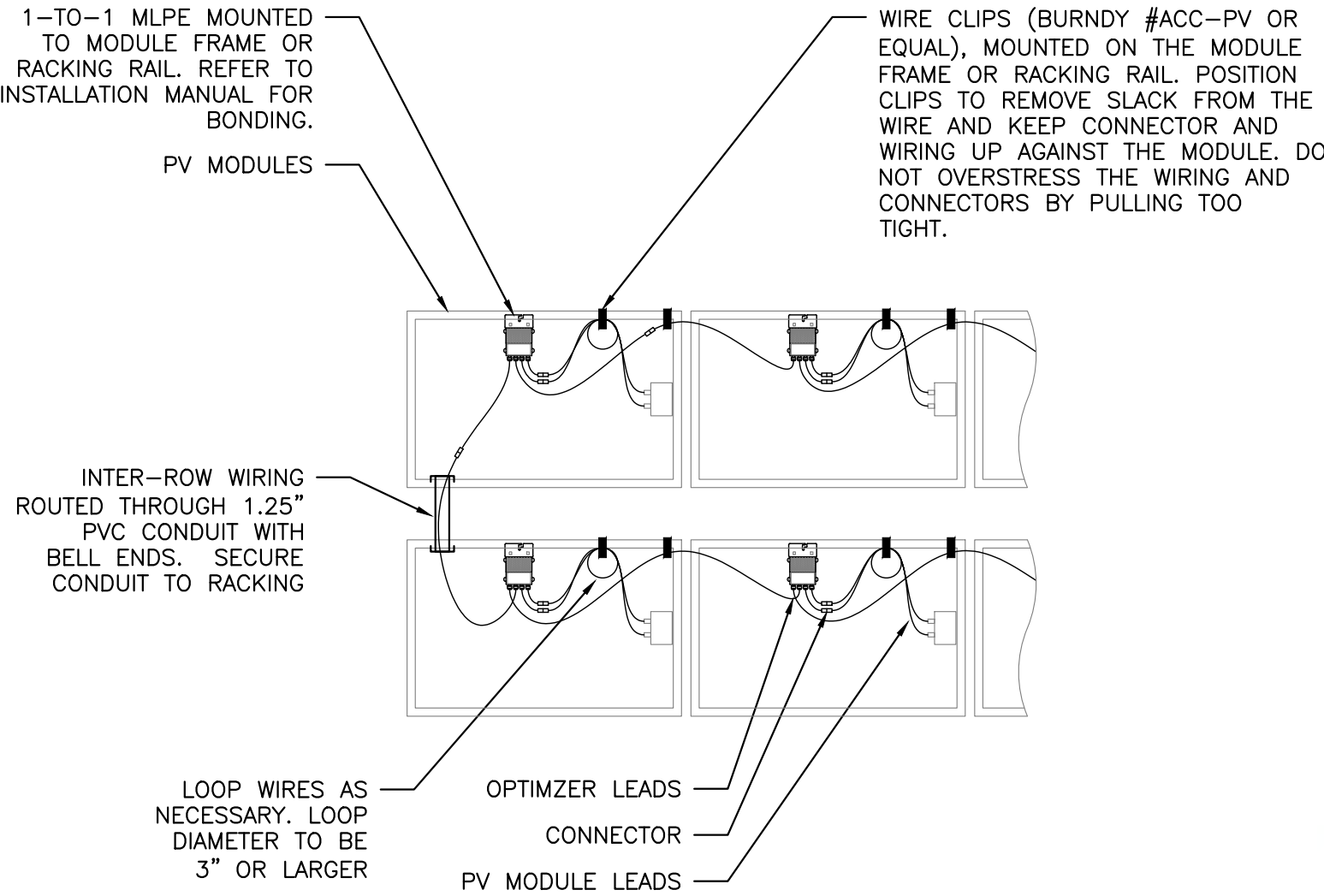
2 FLAT ROOF CONDUIT SUPPORT
PE402 SCALE: NONE



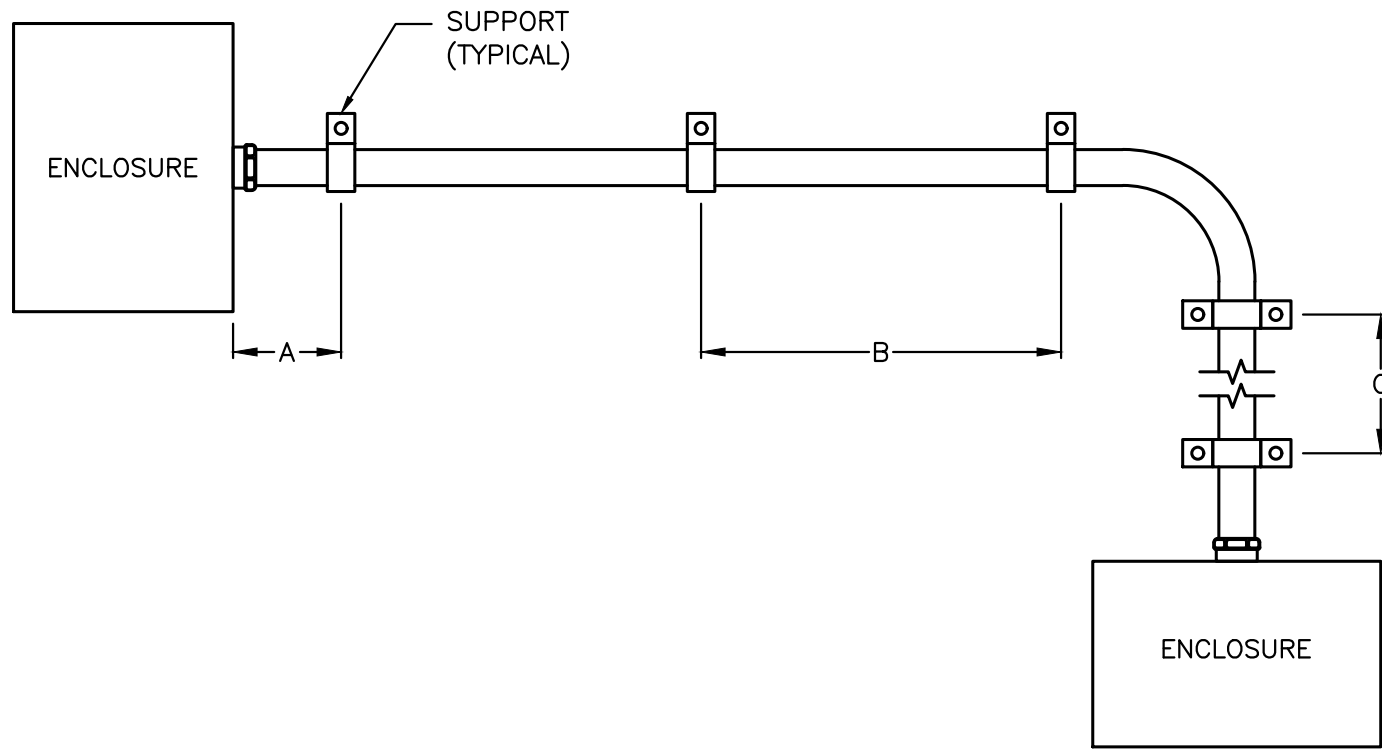
- NOTES:
1. INSTALL EXPANSION COUPLING EVERY 100' OF STRAIGHT CONDUIT RUN.
 2. IF EXPANSION COUPLINGS ARE INSTALLED AT LENGTHS GREATER OR LESS THAN 100', THE DISTANCES OF EXPANSION/CONTRACTION SHALL BE ADJUSTED PROPORTIONALLY.
 3. IF EXPANSION JOINT IS NOT PROVIDED WITH INTERNAL BONDING JUMPER, AN EXTERNAL BONDING JUMPER MUST BE INSTALLED.

NOTE: THE COEFFICIENT OF THERMAL EXPANSION IN STEEL CONDUIT= $0.65 \times 10^{-5} \text{ IN./IN./}^{\circ}\text{F}$ AT 120°F, THE LENGTH CHANGE IS 0.94 INCHES PER 100 FEET OF CONDUIT RUN.

3 EMT,IMC,RMC EXPANSION COUPLING DETAIL
PE402 SCALE: NONE

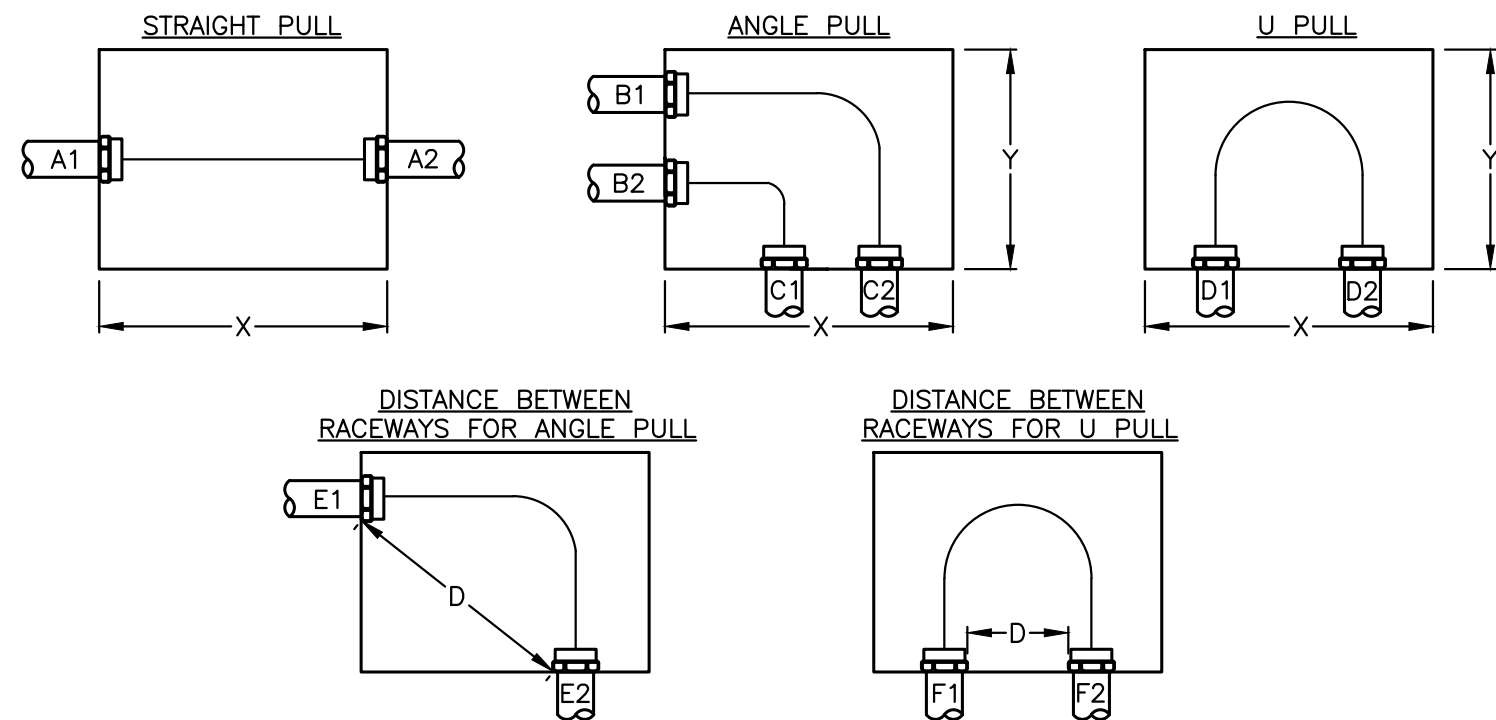


4 STRING WIRING DETAIL
PE402 SCALE: NONE



MAXIMUM CONDUIT HARDWARE SPACING				
CONDUIT TYPE	ENCLOSURE TO SUPPORT (A)	SUPPORT TO SUPPORT (B)	VERTICAL RUNS (C)	NEC ARTICLE
ELECTRICAL METALLIC TUBING (EMT)	3'	10'	10'	358
INTERMEDIATE METAL CONDUIT (IMC)	3'	10'	10'	342
RIGID METAL CONDUIT (RMC)	3'	10'	10'	344
LIQUIDTIGHT FLEXIBLE METAL CONDUIT (LFMC)	1'	4.5'	4.5'	350
PVC (SCH40 & 80) [0.5" - 1"]	3'	3'	3'	352
PVC (SCH40 & 80) [1.25" - 2"]	3'	5'	5'	352
PVC (SCH40 & 80) [2.5" - 3"]	3'	6'	6'	352
PVC (SCH40 & 80) [3.5" - 5"]	3'	7'	7'	352
PVC (SCH40 & 80) [6"]	3'	8'	8'	352

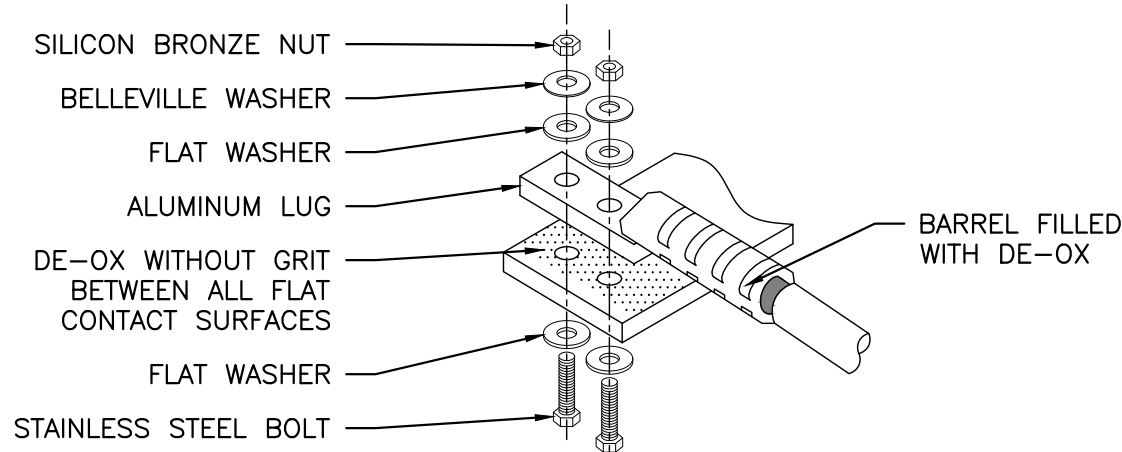
5 CONDUIT SUPPORT SPACING
PE402 SCALE: NONE



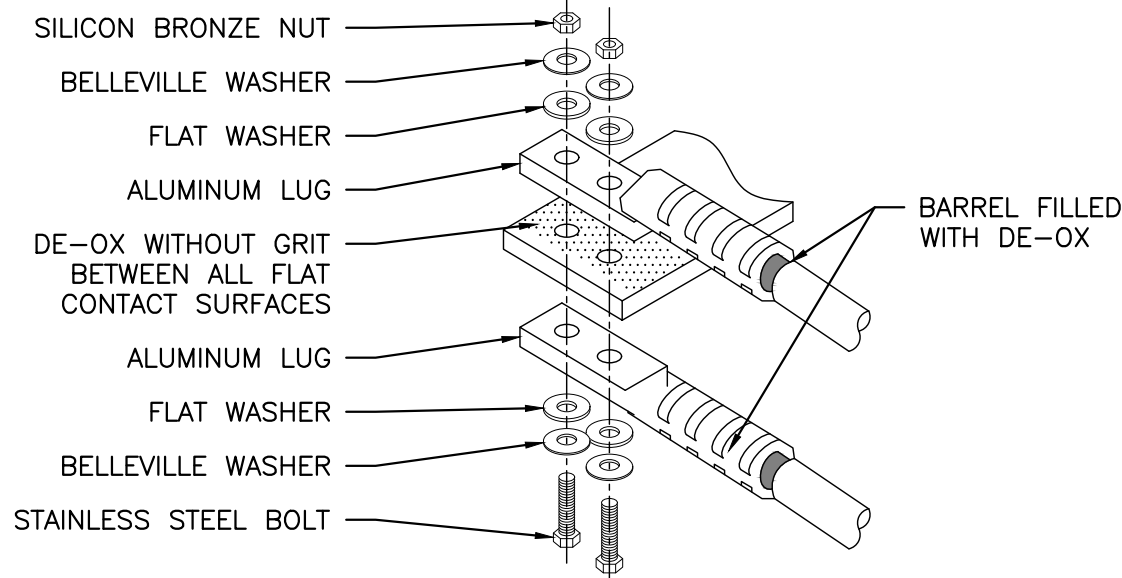
NEC 314.28(A)(1)-(3) PULL BOX SIZING (UP TO 1000V)			
BOX TYPE	LENGTH (X)	HEIGHT (Y)	DISTANCE (D)
STRAIGHT PULL	8 X LARGEST OF A1 & A2	AS NEEDED	N/A
ANGLE PULL	6 X (LARGEST OF B1 & B2) + SUM OF OTHER CONDUIT ENTERING THE SAME WALL	6 X (LARGEST OF C1 & C2) + SUM OF OTHER CONDUIT ENTERING THE SAME WALL	6 X LARGEST OF E1 & E2
U PULL	AS NEEDED	6 X (LARGEST OF D1 & D2) + SUM OF OTHER CONDUIT ENTERING THE SAME WALL	6 X LARGEST OF F1 & F2

NOTE: REFER TO NEC 314.28 FOR ADDITIONAL REQUIREMENTS.

6 PULL BOX & JUNCTION BOX SIZING
PE402 SCALE: NONE

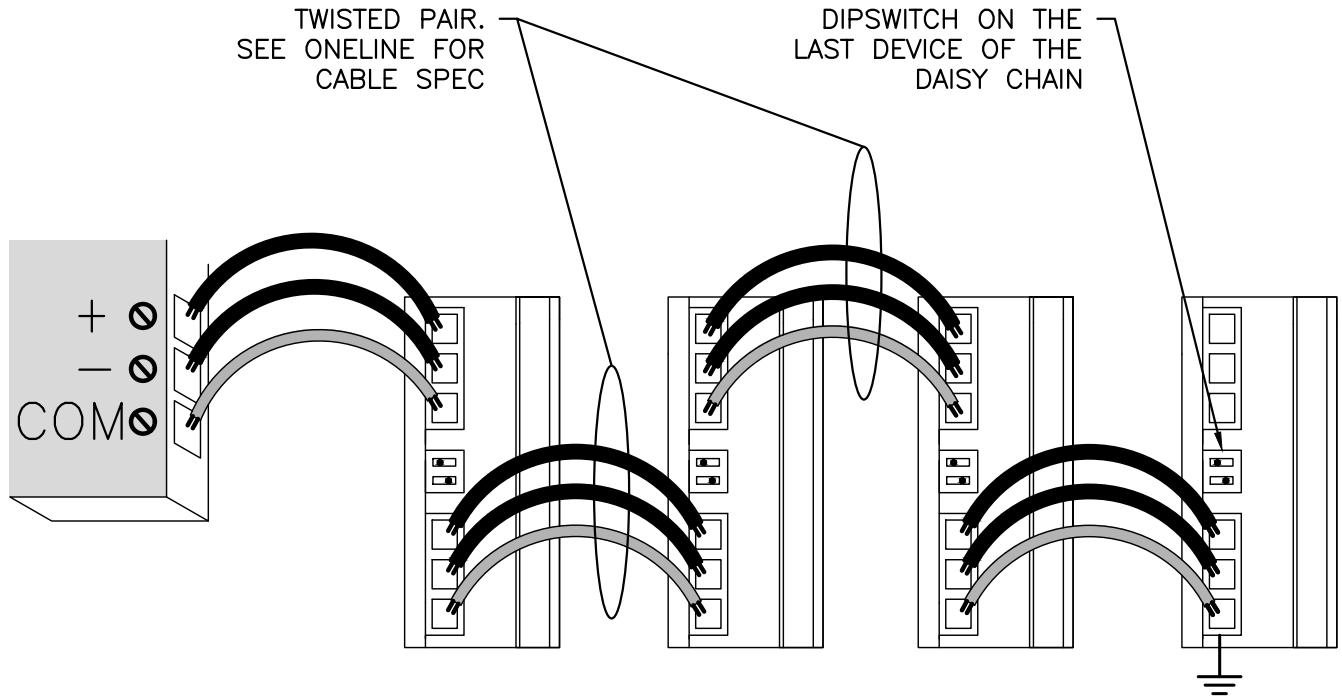


LUG ON ONE SIDE OF BUSBAR

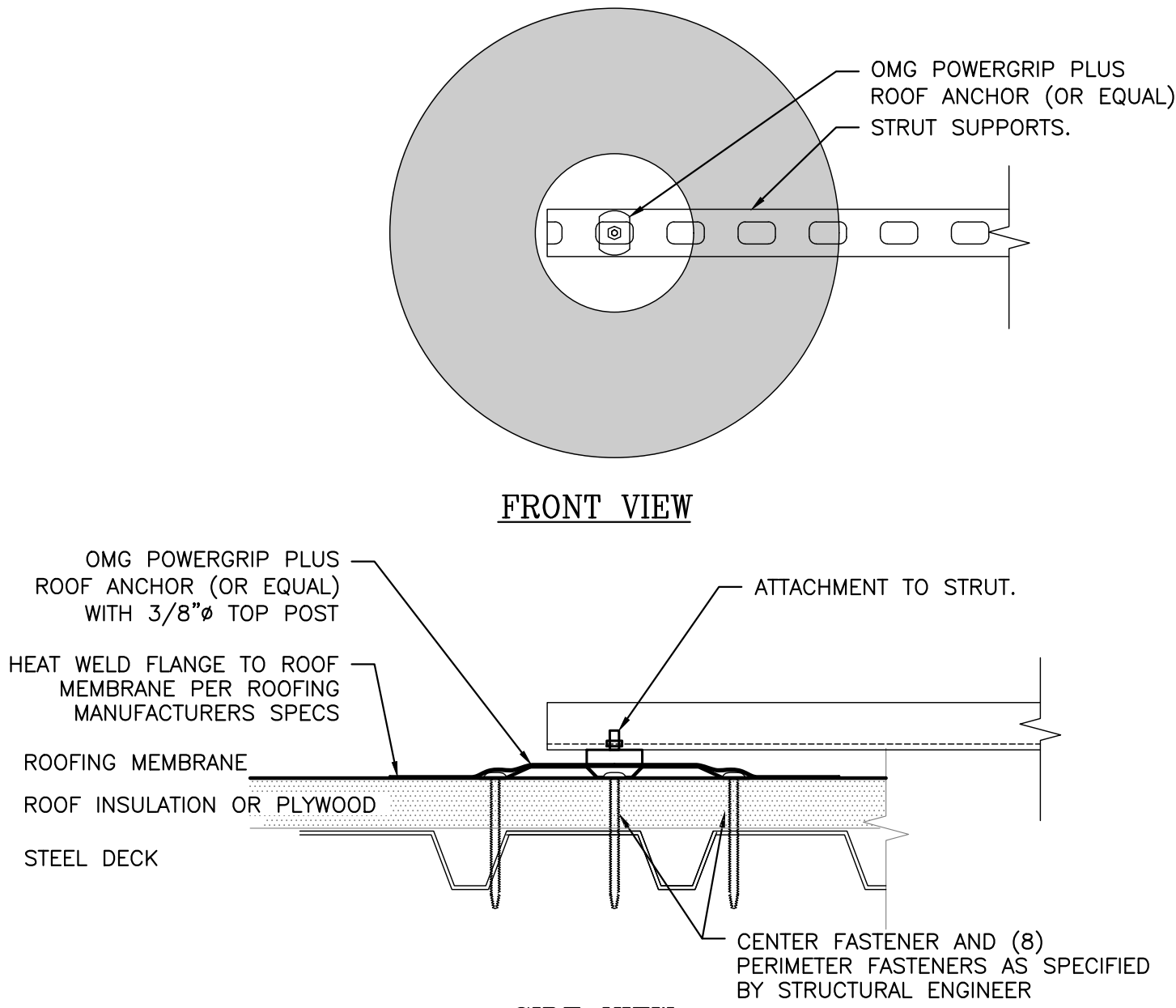


LUGS ON BOTH SIDES OF BUSBAR

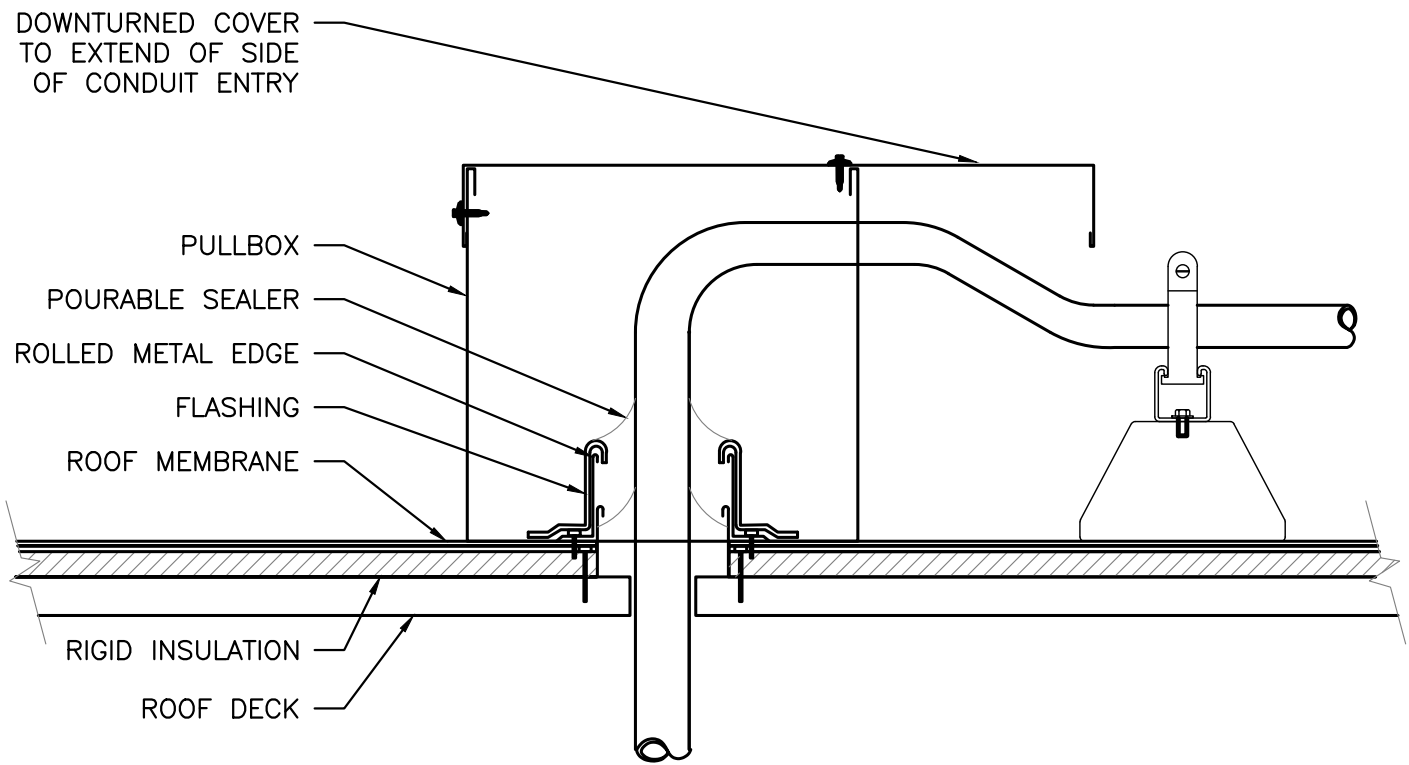
7 COMPRESSION LUG DETAIL
PE402 SCALE: NONE
E402 SCALE: NONE



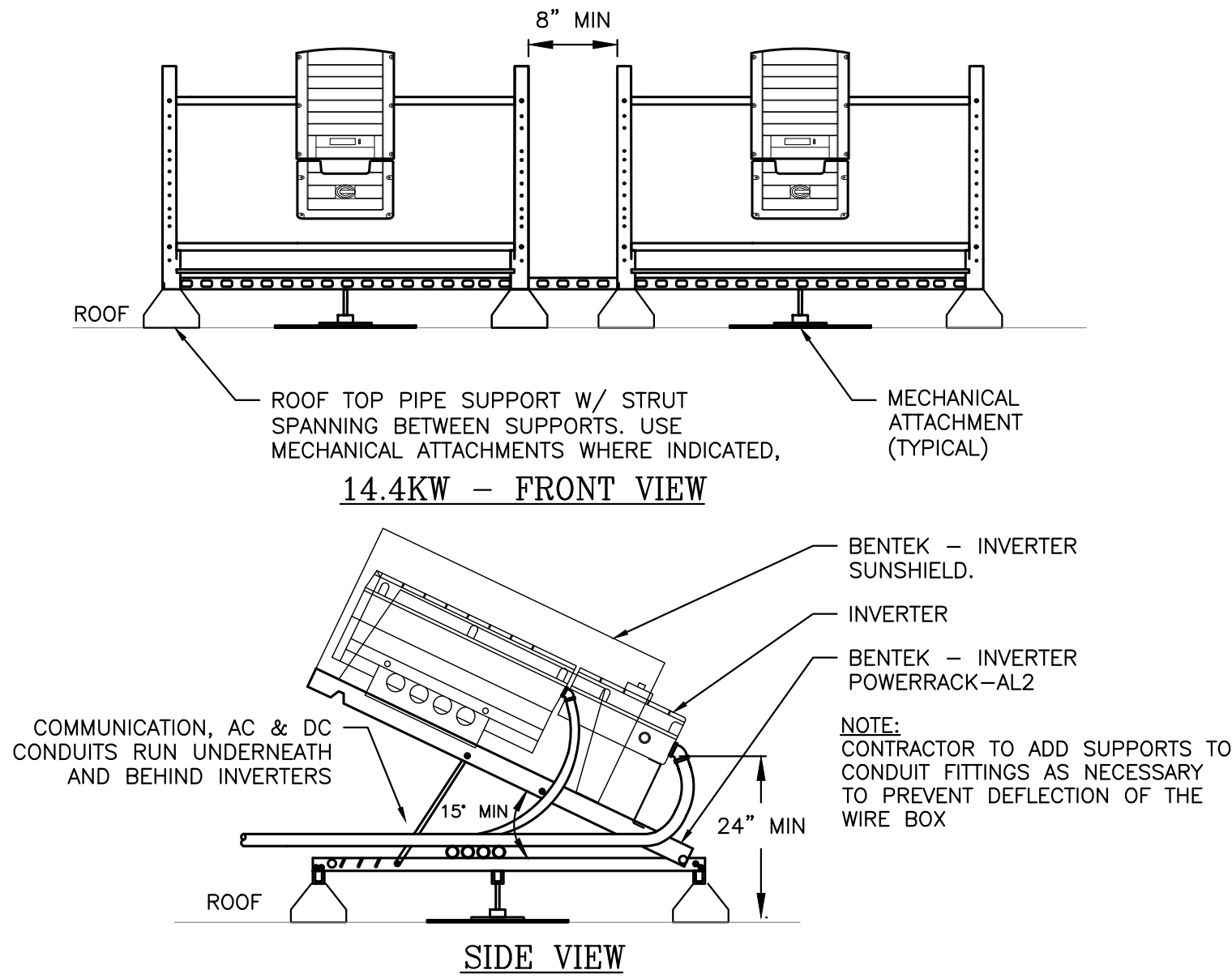
8 MODBUS DETAIL
PE402 SCALE: NONE



9 ROOF ANCHOR ATTACHMENT DETAIL
PE402 SCALE: NONE



10 ROOF PENETRATION WITH PITCH POCKET
PE402 SCALE: NONE



11 TYPICAL INVERTER RACK - SOLAREEDGE
PE402 SCALE: NONE

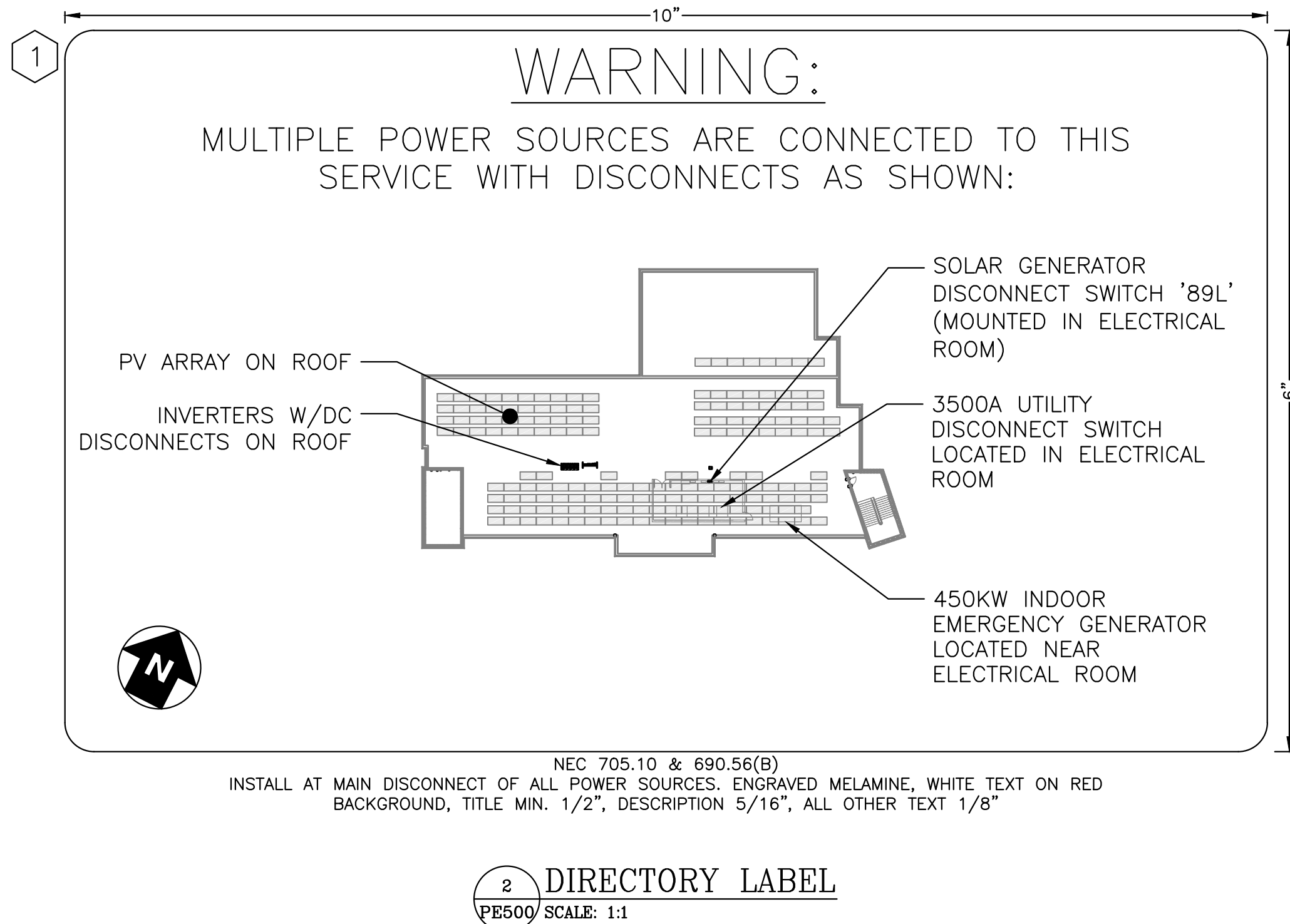
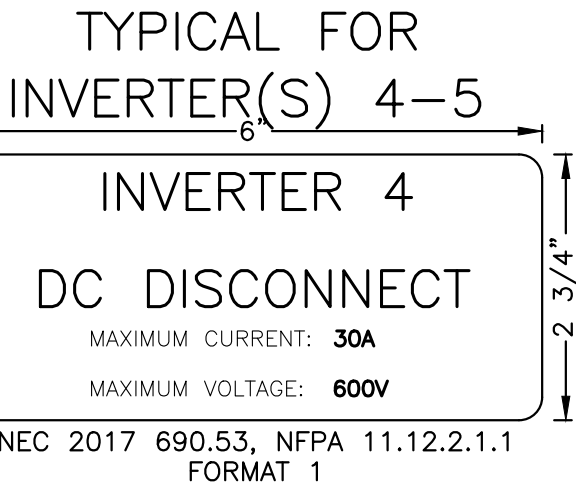
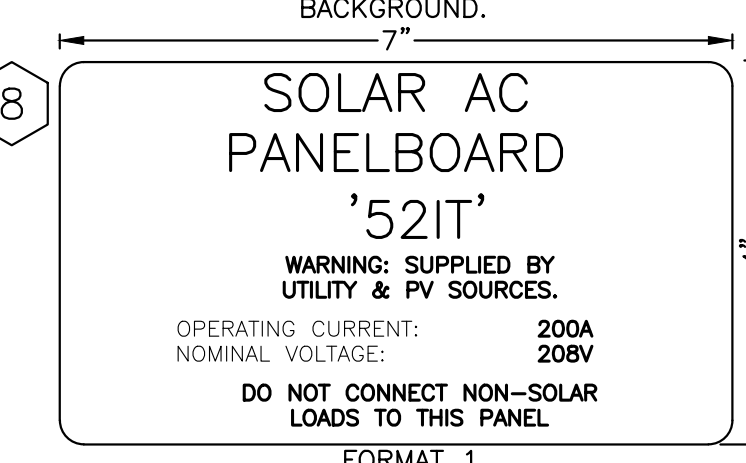
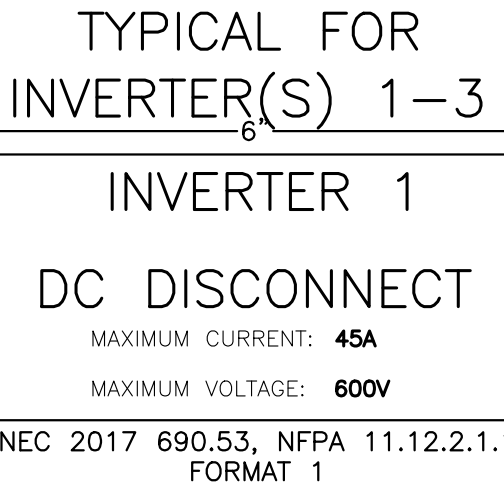
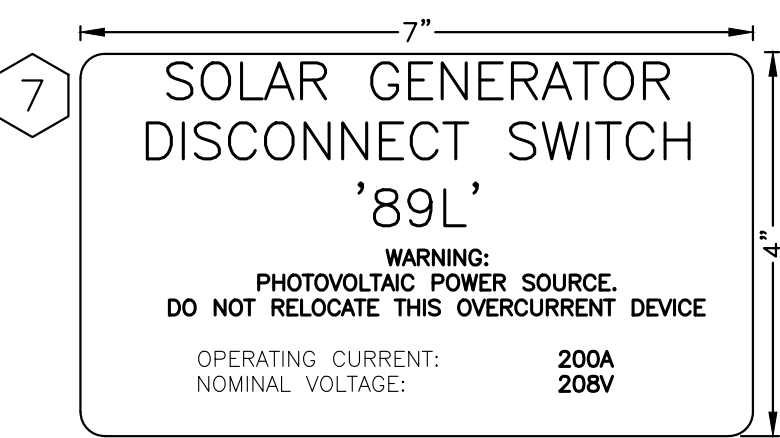
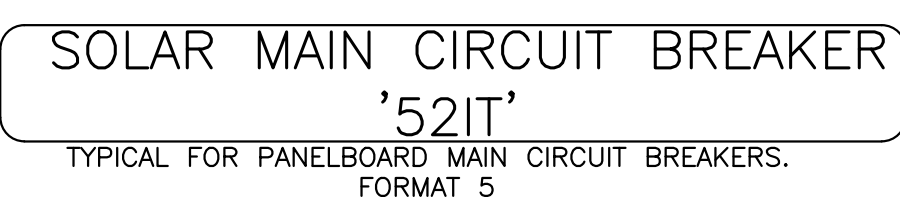
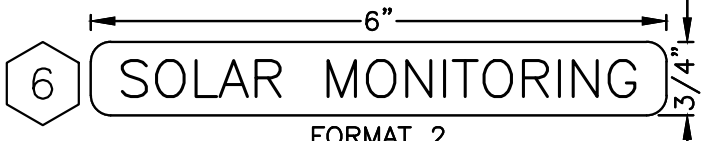
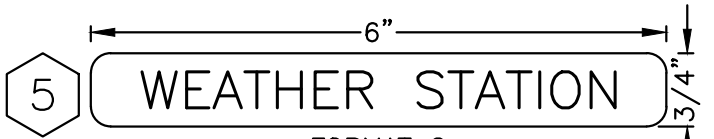
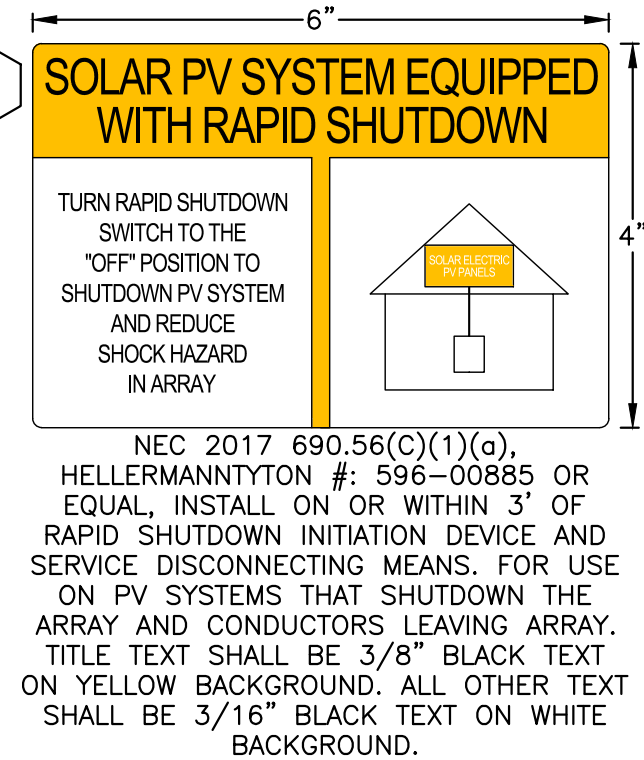
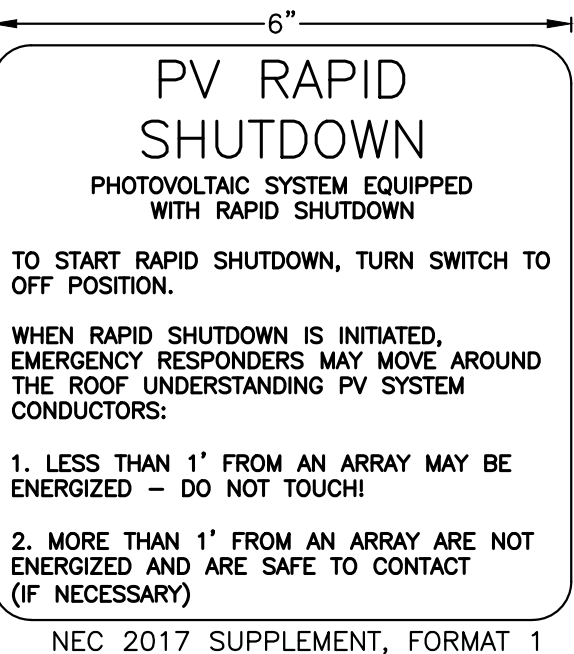
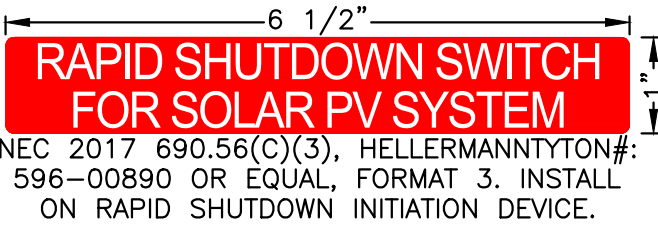
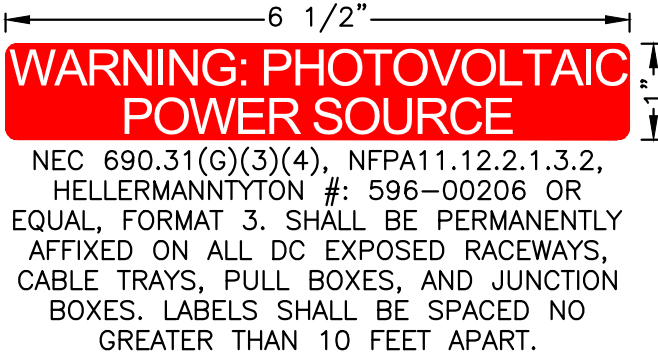
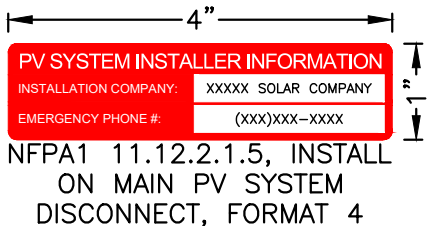
18
17
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1/2
RULER IN INCHES:

GENERAL NOTES FOR LABELS:
1. LABEL SCALE 1:2 UNLESS NOTED
2. LETTERING ON SIGNS SHALL BE CAPITAL LETTERS
3. CLEARLY LABEL ALL CIRCUIT BREAKERS IN THE PANELBOARD(S). THE LABEL SHALL INDICATE THE NAME OF THE DEVICE IT SERVES.

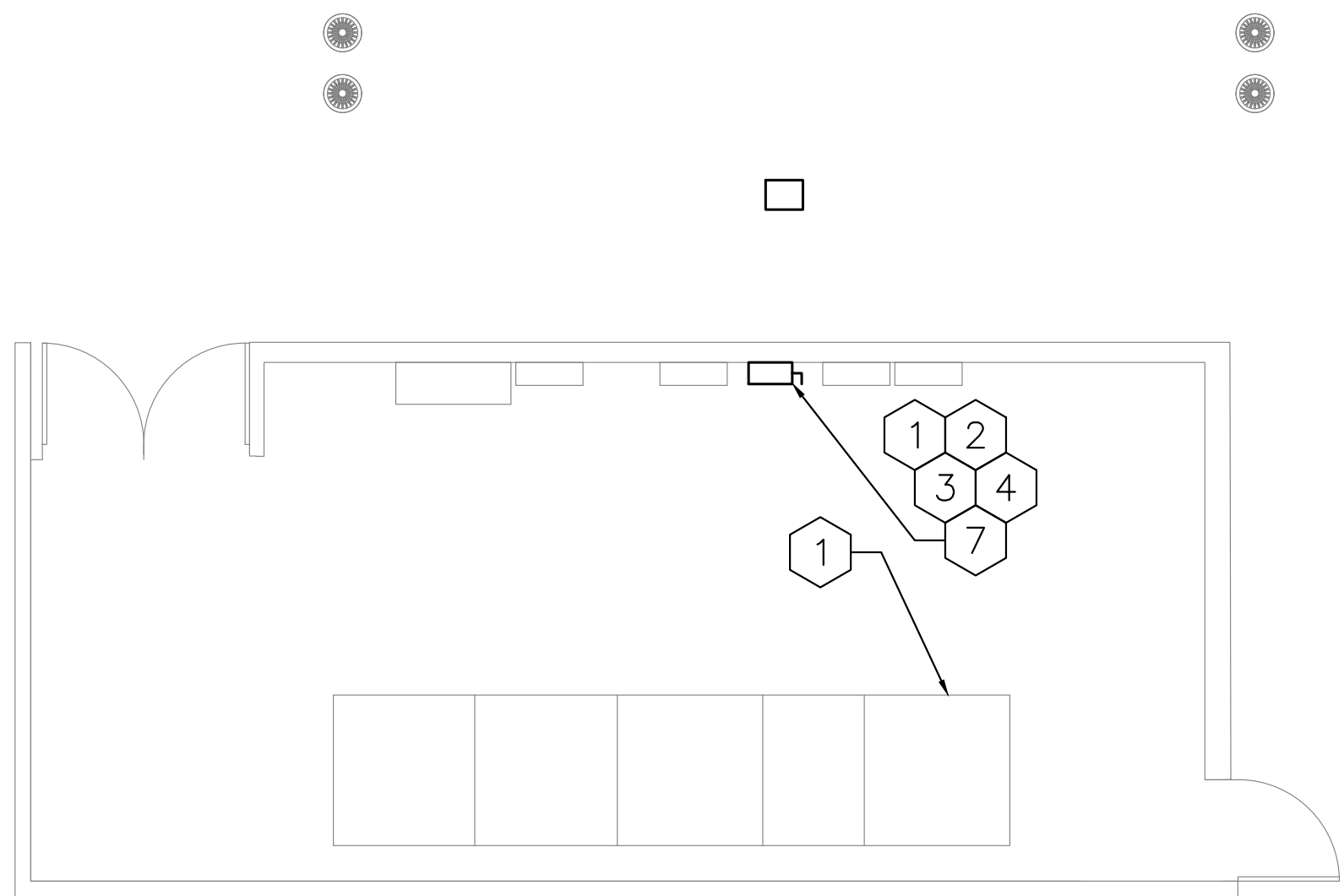
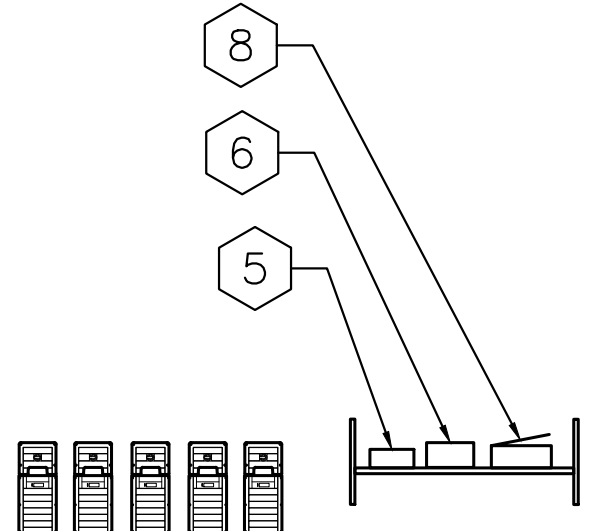
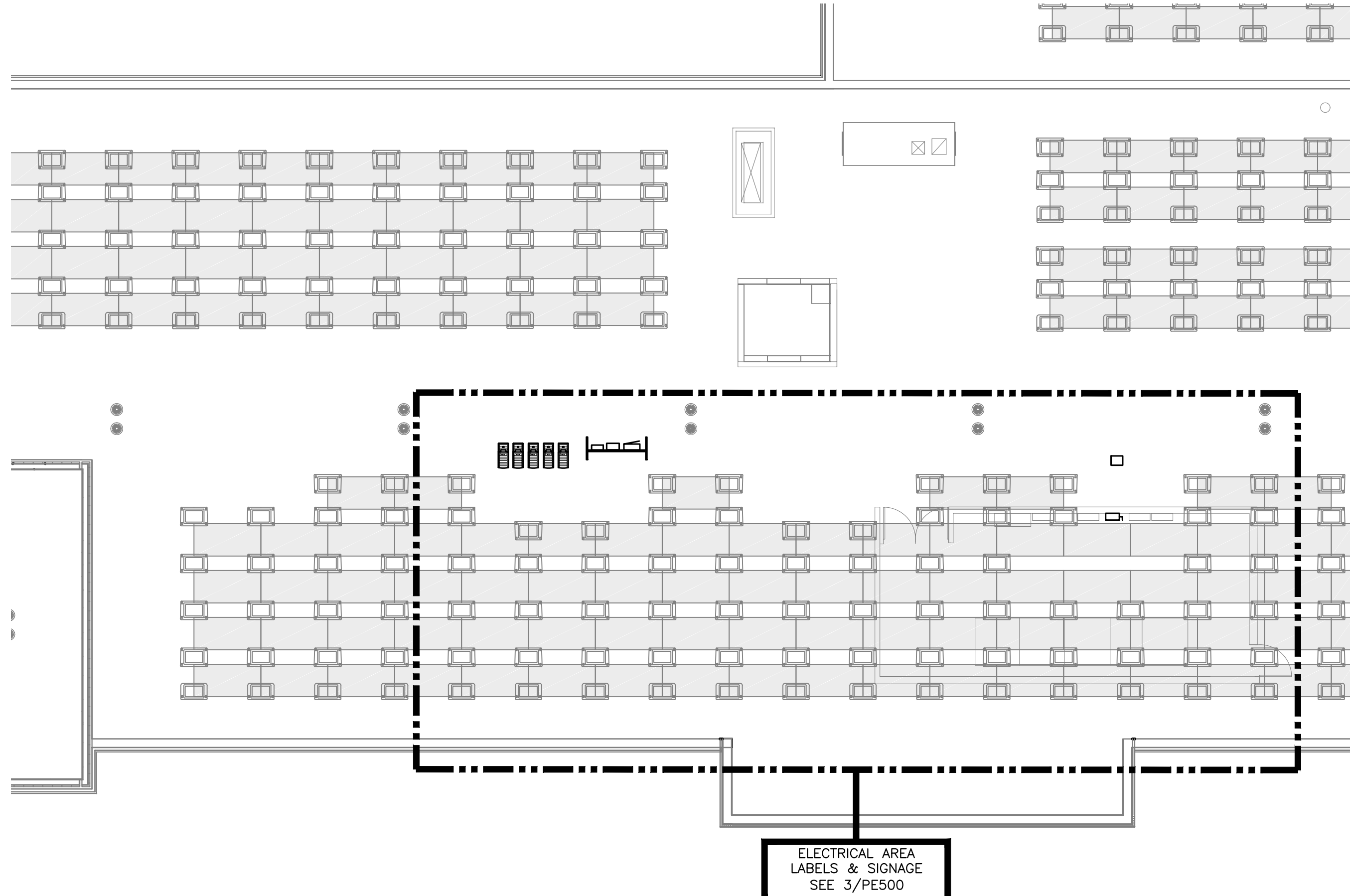
LABEL FORMAT NOTES:
1. **FORMAT 1:** ENGRAVED MELAMINE, WHITE TEXT ON RED BACKGROUND. TEXT HEIGHT: TITLES 3/8", ALL OTHER TEXT 5/32".
2. **FORMAT 2:** ENGRAVED MELAMINE, BLACK TEXT ON WHITE BACKGROUND. TEXT HEIGHT: 3/8".
3. **FORMAT 3:** REFLECTIVE UV RATED LABEL. RED BACKGROUND WITH WHITE CAPITAL LETTERS AT LEAST 3/8" TALL. LABELS SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED.
4. **FORMAT 4:** ENGRAVED MELAMINE, WHITE TEXT ON RED BACKGROUND. TEXT HEIGHT: TITLES 5/32", ALL OTHER TEXT 3/32".
5. **FORMAT 5:** VINYL FILM, BLACK TEXT ON WHITE BACKGROUND. TEXT HEIGHT: 3/8"

PER 2017 NEC 690.31(B)(1), PV SYSTEM CIRCUIT CONDUCTORS SHALL BE IDENTIFIED AT ALL ACCESSIBLE POINTS OF TERMINATION, CONNECTION, AND SPLICES.

1. STRING HOMERUNS AT ARRAY
2. DC INPUT TERMINALS OF COMBINER BOX
3. DC OUTPUT TERMINALS OF COMBINER BOX
4. DC INPUT TERMINALS OF INVERTER
5. AC OUTPUT TERMINALS OF INVERTER
6. AC INPUT & OUTPUT TERMINALS OF EACH SUCCESSIVE DEVICE (WHERE APPLICABLE)



2 DIRECTORY LABEL
PE500 SCALE: 1:1



3 ELECTRICAL AREA - LABELS & SIGNAGE
PE500 SCALE: 3/16" = 1'-0"




1 LABELS & SIGNAGE
PE500 SCALE: 1" = 10'-0"




DRAWING TITLE
LABELS & SIGNAGE

DRAWING #
PE500

PROJECT	76.12 KW SOLAR ROOFTOP SYSTEM AT ST. DENIS COMMUNITY SCHOOL 121 MCCLEAN AVE YONKERS, NY 10705	DC SYSTEM SIZE: 76.12 kW AC SYSTEM SIZE: 72.00 kW MODULE TYPE: CS3W-440MB-AG MODULE QUANTITY: 173 STRING QUANTITY: 13 INVERTER QUANTITY: 10	PAGE SIZE 36" x 24"	PROJECT # 01541	DEVELOPER BARILE CALLAGHER & ASSOCIATES 30 PLEASANTVILLE AVE PLEASANTVILLE, NY 10570 WWW.BCA-ENG.COM	ENGINEER RICHARD A. WINS 111 RIVER STREET ELIZEN, NY 10523 WWW.PUREPOWER.COM NY LICENSE NO. 031197	DATE 07/14/2021	REVISION	DESCRIPTION	DATE	BY	CHK
								AK	AA	RI		







BiHiKu

SUPER HIGH POWER BIFACIAL MONO PERC MODULE
420 W ~ 445 W
UP TO 30% MORE POWER FROM THE BACK SIDE
CS3W-420|425|430|435|440|445MB-AG


MORE POWER




Up to 30% more power from the back side



24 % higher front side power than conventional modules




Low NMOT: 41 ± 3 °C
 Low temperature coefficient (Pmax): -0.35 % / °C




Better shading tolerance


MORE RELIABLE




Lower internal current, lower hot spot temperature




Minimizes micro-crack impacts




Heavy snow load up to 5400 Pa, wind load up to 3600 Pa *





linear power output warranty*



enhanced product warranty on materials and workmanship*


*According to the applicable Canadian Solar Limited Warranty Statement.


MANAGEMENT SYSTEM CERTIFICATES*


ISO 9001:2015 / Quality management system
 ISO 14001:2015 / Standards for environmental management system
 OHSAS 18001:2007 / International standards for occupational health & safety


PRODUCT CERTIFICATES*


IEC 61215 / IEC 61730: VDE / CE / MCS / INMETRO
 UL 1703: CSA / IEC 61701: ENEC: VDE / IEC 62716: VDE / IEC 60068-2-68: SGS
 Take-e-way























* As there are different certification requirements in different markets, please contact your local Canadian Solar sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

CANADIAN SOLAR INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. No. 1 module supplier for quality and performance/price ratio in IHS Module Customer Insight Survey. As a leading PV project developer and manufacturer of solar modules with over 40 GW deployed around the world since 2001.

* For detail information, please refer to Installation Manual.

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545 Speedvale Avenue West, Guelph, Ontario N1K 1E5, Canada, www.canadiansolar.com, support@canadiansolar.com

ENGINEERING DRAWING (mm)

The drawing includes three views:
Rear View: Shows the back of the module with dimensions for the mounting hole (100mm diameter), the distance from the hole to the edge (150mm), and the distance between the hole and the junction box (150mm).
Frame Cross Section: Shows the profile of the module with a height of 23mm and a width of 435mm.
Mounting Hole: A detailed view of the hole with a diameter of 100mm and a depth of 150mm.

ELECTRICAL DATA | 25°C*

	Nominal Power (Wp)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Open Circuit Current (Ioc)	Module Efficiency (%)
CS5W-435MB-A435	420 W	39.2 V	10.32 A	47.9 V	11.27 A	18.8%
	5% 441 W	39.9 V	11.06 A	47.9 V	11.83 A	19.8%
Bifacial	10% 462 W	39.9 V	11.58 A	47.9 V	12.40 A	20.7%
	20% 504 W	39.9 V	12.64 A	47.9 V	13.52 A	22.6%
	30% 546 W	39.9 V	13.69 A	47.9 V	14.65 A	24.4%
CS5W-435MB-A425	425 W	40.1 V	10.60 A	48.1 V	11.32 A	19.0%
	5% 446 W	40.1 V	11.12 A	48.1 V	11.72 A	20.0%
Bifacial	10% 468 W	40.1 V	11.66 A	48.1 V	12.45 A	20.9%
Gain**	20% 510 W	40.1 V	12.72 A	48.1 V	13.58 A	22.8%
	30% 553 W	40.1 V	13.78 A	48.1 V	14.72 A	24.8%
CS5W-435MB-A430	430 W	40.3 V	10.68 A	48.3 V	11.37 A	19.2%
	5% 452 W	40.3 V	11.21 A	48.3 V	11.94 A	20.2%
Bifacial	10% 472 W	40.3 V	11.74 A	48.3 V	12.51 A	21.2%
Gain**	20% 516 W	40.3 V	12.82 A	48.3 V	13.64 A	23.1%
	30% 559 W	40.3 V	13.88 A	48.3 V	14.78 A	25.0%
CS5W-435MB-A435	435 W	40.5 V	10.75 A	48.5 V	11.42 A	19.5%
	5% 457 W	40.5 V	11.29 A	48.5 V	11.99 A	20.5%
Bifacial	10% 479 W	40.5 V	11.83 A	48.5 V	12.56 A	21.4%
	20% 522 W	40.5 V	12.90 A	48.5 V	13.70 A	23.3%
	30% 566 W	40.5 V	13.98 A	48.5 V	14.85 A	25.3%
CS5W-435MB-A440	440 W	40.7 V	10.82 A	48.7 V	11.48 A	19.7%
	5% 462 W	40.7 V	11.36 A	48.7 V	12.05 A	20.7%
Bifacial	10% 484 W	40.7 V	11.90 A	48.7 V	12.63 A	21.7%
Gain**	20% 528 W	40.7 V	12.98 A	48.7 V	13.78 A	23.6%
	30% 572 W	40.7 V	14.07 A	48.7 V	14.92 A	25.6%
CS5W-435MB-A445	445 W	40.9 V	10.89 A	48.9 V	11.54 A	19.9%
	5% 467 W	40.9 V	11.43 A	48.9 V	12.12 A	20.9%
Bifacial	10% 490 W	40.9 V	11.98 A	48.9 V	12.69 A	21.9%
Gain**	20% 534 W	40.9 V	13.07 A	48.9 V	13.85 A	23.9%
	30% 579 W	40.9 V	14.16 A	48.9 V	15.00 A	25.9%

* Under Standard Test Conditions (1000 W/m² irradiance, 25°C temperature, AM 1.5).
 ** Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on mounting situation, height, tilt angle etc. and albedo of the ground.

ELECTRICAL DATA

Operating Temperature	40°C – 85°C
Max. System Voltage	1500 V (IECULV) or 1000 V (IECULV)
Module Fire Performance	TYPE III SL 1703
UL Recognized Component	UL 6173 (IEC61730)
Max. Series Fuse Rating	25 A
Application Classification	Class A
Power Tolerance	0 ~ 10 W
Power Bifaciality**	0 %

** Power Bifaciality = $\frac{\text{Front Power} - \text{Back Power}}{\text{Front Power}}$ both in W/m^2 and Wp are tested under STC, Bifaciality Tolerance is $\pm 5\%$

* The specifications and key features contained in this datasheet may be changed slightly from our actual products due to the on going innovation and product enhancement. Canadian Solar Inc. and its affiliates will make necessary adjustment to the information described herein at any time without further notice.

Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV Modules.

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CS5W-435MB-I/V CURVES

The graph plots Power (Wp), Voltage (Vmp), and Current (Imp) against Temperature (°C). The x-axis ranges from 15 to 55°C. The y-axis ranges from 0 to 12 Wp, 0 to 12 V, and 0 to 12 A. The curves show that power and voltage decrease as temperature increases, while current increases slightly.

ELECTRICAL DATA | PM07*

	Nominal Power (Wp)	Opt. Operating Voltage (Vmp)	Opt. Operating Current (Imp)	Open Circuit Voltage (Voc)	Open Short Circuit Current (Isc)
CS5W-435MB-A315	315 W	37.3 V	8.42 A	45.2 V	9.09 A
	5% 318 W	37.5 V	8.48 A	45.4 V	9.13 A</

INVERTERS

Three Phase Inverters for the 120/208V Grid for North America

SE14.4KUS / SE17.3KUS



12-20
YEAR
WARRANTY

The best choice for SolarEdge enabled systems

- Specifically designed to work with power optimizers
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Fixed voltage inverter for superior efficiency (97.5%) and longer strings
- Built-in type 2 DC and AC Surge Protection, to better withstand lightning events
- Small, lightest in its class, and easy to install outdoors or indoors on provided bracket

- Integrated arc fault protection and rapid shutdown for NEC 2014 and 2017, per article 690.11 and 690.12
- Built-in module-level monitoring with Ethernet, wireless or cellular communication for full system visibility
- Integrated Safety Switch
- UL1741 SA certified, for CPUC Rule 21 grid compliance

solaredge.com



Three Phase Inverters for the 120/208V Grid⁽¹⁾

for North America

SE14.4KUS / SE17.3KUS

MODEL NUMBER	SE14.4KUS	SE17.3KUS
APPLICABLE TO INVERTERS WITH PART NUMBER		
SEXXX-USX2XXXX		
OUTPUT		
Rated AC Power Output	14400	17300
Maximum apparent AC output power	14400	17300
AC Output Line Connections	3W + PE, 4W + PE	W
AC Output Voltage Minimum-Nominal-Maximum ⁽³⁾ (L-N)	105-120-132.5	Vac
AC Output Voltage Minimum-Nominal-Maximum ⁽³⁾ (L-L)	183-208-229	Vac
AC Frequency Min-Max ⁽⁴⁾	59.3 - 60.5	Hz
Continuous Output Current (per Phase)	40	48.25
GFEL Threshold	1	A
Utility Monitoring, Islanding Protection, Country Configurable Set Points	Yes	
THD	< 3	%
Power Factor Range	+/- 0.85 to 1	
INPUT		
Maximum DC Power (Module STC)	21600	26000
Transformerless, Ungrounded	Yes	W
Maximum Input Voltage DC+ to DC-	600	Vdc
Nominal Input Voltage DC+ to DC-	600	Vdc
Maximum Input Current	40	48.25
Maximum Input Short Circuit Current	55	Adc
Reverse-Polarity Protection	Yes	
Ground Fault Isolation Detection	167kΩ Sensitivity ⁽⁶⁾	
CEC Weighted Efficiency	97.5	%
Night-time Power Consumption	< 4	W
ADDITIONAL FEATURES		
Supported Communication Interfaces	2 x RS485, Ethernet, Cellular (optional)	
Inverter Commissioning	With the SeTap mobile application using built-in Wi-Fi access point for local connection	
Rapid Shutdown	NEC2014, NEC2017 and NEC2020 compliant certified	
SE14S5 Surge Protection Plug-in	Supplied with the inverter; Built-in	
AC, DC Surge Protection	Type II, field replaceable, Built-in	
DC Fuses (Single Pole)	25A, Built-in	
Smart Energy Management	Export Limitation	
DC SAFETY SWITCH		
DC Disconnect	Integrated	
STANDARDS COMPLIANCE		
Safety	UL1741, UL1741 SA, UL16996, CSA C22.2, Canadian AFCT according to TLL M-47	
Grid Connection Standards	IEEE5147, Rule 21, Rule 14 (H)	
Emissions	FCC part13 class A	
INSTALLATION SPECIFICATIONS		
AC output cond. size / AWG range	1/4" or 1" / 6 - 10 AWG	
DC input cond. size / AWG range	1/4" or 1" / 6 - 12 AWG	
Number of DC inputs pairs	4	
Dimensions with Safety Switch (H x W x D)	31.8 x 12.5 x 11.8 / 868 x 317 x 300	
Weight with Safety Switch	78.5 / 28.5	
Cooling	Fans (user replaceable)	
Noise	< 62	
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽⁵⁾	
Protection Rating	NEMA 3R	
Mounting	Bracket provided	

(1) For 277/480V inverters refer to: <https://www.solaredge.com/sites/default/files/three-phase-us-inverter-277-480v-stsapp-datasheet.pdf>

(2) For other regional settings please contact SolarEdge support

(3) Where permitted by local regulations

(4) For power de-rating information refer to: <https://www.solaredge.com/sites/default/files/ie-temperature-de-rating-note.pdf>

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CE

Power Optimizer

For North America

P370 / P400 / P401 / P485 / P505

POWER OPTIMIZER

PV power optimization at the module-level


- / Specifically designed to work with SolarEdge inverters
- / Up to 25% more energy
- / Superior efficiency (99.5%)
- / Mitigates all types of module mismatch losses, from manufacturing tolerance to partial shading
- / Flexible system design for maximum space utilization
- / Fast installation with a single bolt
- / Next generation maintenance with module-level monitoring
- / Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)
- / Module-level voltage shutdown for installer and firefighter safety

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/ Power Optimizer For North America P370 / P400 / P401 / P485 / P505										
Optimizer type (typical module compatibility)	P370 (for higher-power 60 and 72-cell modules)	P401 (for 72 & 96- cell modules)	P400 (for high power 60 and 72 cell modules)	P485 (for high-voltage modules)	P505 (for higher current modules)					
INPUT										
Rated Input DC Power ¹	370		400	485	505					
Absolute Maximum Input Voltage (at 0° lowest temperature)	60	80	60	125 ²	83 ³					
MPP ⁴ Operating Range	8 - 80	8 - 80	8-60	12.5 - 105	12.5 - 83					
Maximum Short Circuit Current (IsC)	11	10.1	11.75	11	14					
Maximum Efficiency			98.5							
Weighted Efficiency			98.8							
Overvoltage Category	II									
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLARLEDGE INVERTER)										
Maximum Output Current			15							
Maximum Output Voltage		60		80						
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLARLEDGE INVERTER OR SOLARLEDGE INVERTER OFF)										
Standby Output Voltage per Power Optimizer	1 ± 0.1									
SAFETY COMPLIANCE										
Photovoltaic Rapid Shutdown System	NEC 2014, 2017 & 2020									
EMC	FCC Part 15 Class B, IEC60900-6-2, IEC61000-6-3									
Shock Safety	IEC62015-1 Class I safety, UL1471									
Material	UL94 V-0, UV Resist									
RoHS	Yes									
INSTALLATION SPECIFICATIONS										
Maximum Allowed System Voltage	1000									
Compatible Inverters	All SolarEdge Single Phase and Three Phase Inverters									
Dimensions (W x L x H)	129 x 13 x 27.5 / 5.1 x 0.6 x 1.1	159 x 16.3 x 35.5 / 5.1 x 0.6 x 1.3	129 x 15.3 x 29.5 / 5.1 x 0.6 x 1.3	129 x 13 x 33.5 / 5.1 x 0.6 x 1.3	129 x 16.2 x 59 / 5.1 x 0.6 x 2.3					
Weight (including cables)	655 / 1.4	750 / 1.7	655 / 1.4	845 / 1.9	1000 / 2.3					
Input Connector	MC4 ⁶									
Input Wire Length	0.16 / 0.52, 0.9 / 2.95 ⁶	0.16 / 0.52	0.16 / 0.52, 0.9 / 2.95 ⁶	0.16 / 0.52	0.16 / 0.52					
Output Wire Type / Connector	Double insulated / MC4 ⁶									
Output Wire Length	12 / 3.3									
Operating Temperature Range ⁵	-40 to +151 / -40 to +185									
Protection Rating	IP68 / NEMA9P									
Relative Humidity	0 - 100									
Note: (1) Rated power of the module at STC will not exceed the optimizer "Rated Input DC Power". Modules with > +1% power production are allowed. (2) NEC 2017 requires two parallel conductors to be not more than 80V. (3) For other connector types, please contact SolarEdge. (4) For dual version for parallel connection of two modules use P485-NEMA9M in the case of an odd number of PV modules in one string. Installing one P485 dual version power optimizer connected to two modules will automatically make the unused input connector with the supplied pair of male. (5) For ambient temperature above +85°C / +185°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details. (6) For ambient temperature above +85°C / +185°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details.										
PV System Design Using a SolarEdge										
	Single Phase HD-Wave	Single phase	Three Phase for 230V grid	Three Phase for 277/480V grid						
Minimum String Length (Power Optimizers)	P370, P400, P401 P485, P505	8 25	8 25	18 14						
Maximum String Length (Power Optimizers)		25 25	25 ⁷	50 ⁸						
Maximum Nominal Power per String	5700 ⁹ (8000 with SE7600-AS - SE1400-US)		5250 ⁹	6000 ⁹	12750 ⁹ W					
Parallel Strings of Different Lengths or Orientations	Yes									
(7) do not install string using information other than: http://www.solar-edge.com/en/files/Installing_string_n.pdf (8) it is not allowed to mix P485/P505 with P370/P400/P401 in one string (9) If the inverter maximum power per string is less than the maximum power per string it will be able to reach up to the inverter's maximum input DC power. Refer to: http://www.solar-edge.com/en/files/Power_optimizer_string_single-string-design-optimization.pdf (10) do not allow it to be installed to reach up to 2700W per string when the maximum power difference between each string is 1000W (11) For 277/480V grid it is allowed to install up to 10,000W per string when the maximum power difference between each string is 2,000W										

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 **RoHS**
Intertek

Evolution FR

ev·o·lu·tion

noun \ ˈēv ə lō ū shən

: a process of continuous change from a lower, simpler state, to a higher, more complex, or better state
: growth

DynoRaxx® Evolution delivers a tool-less ballasted racking system for mounting PV solar panels on flat roofs and surfaces. The proprietary design of the DynoRaxx® ballasted-racking system has been created to simplify and speed installation without compromising quality or performance. With DynoRaxx® Evolution FR, buying commercial solar panel racking has never been more cost-effective.

Three Components

Universal Design

Space-Saving Reverse

Basket Design

No Tools Needed

Rugged Construction

Base protecting / Non-penetrating

Innovative Design

- Fiberglass
- Proprietary racking enables fast installation in less than half the time of other systems
- No tools needed for assembly — one-step pivot clamp secures panels to racking
- Versatility to accommodate all framed PV solar panels on the market
- Eliminates need to penetrate roof with fasteners on most installations
- Smaller footprint than competitive systems saves roof space and adds flexibility
- 10° tilt available
- Elevated system — does not impede water drainage
- Non-corrosive
- No thermal expansion

www.dynoraxx.com Phone: 1.866.620.2410 sales@dynoraxx.com



Three Major Components

Rugged Construction

- Baskets – fiberglass
- Rails – fiberglass
- Clamps – 304 stainless steel

Easy Installation

- Initial measurement and chalk line needed for placement of first row
- Precision components require no field measuring
- Assembles without tools
- Save time and labor to install more modules per hour



Tool-less Design

High Performance

- PE Certified
- ASCE 7-05 compliant
- IBC 2006 compliant
- Wind tunnel tested



Stack for Shipping

Fast Turnaround

- No special orders — ships quickly upon receipt of order
- Racking is palletized — no special shipping requirements
- Tool-less design

Cost-Savings

- Fewer man hours to install
- Baskets stack like cups — Huge Shipping Savings
- A superior, cost-effective solution



DynoRaxx® Evolution Warranty

- DynoRaxx® Evolution carries a 10-year limited material and workmanship warranty.
- Contact us for complete details on the DynoRaxx® warranty.

ARRA and Ontario FIT Compliant

6500 Sheridan Drive, Suite 120
 Buffalo NY 14221
 Phone: 1.866.620.2410 Toll Free Fax: 1.866.807.7882

www.dynoraxx.com

PROJECT #	76.12 KW SOLAR ROOFTOP SYSTEM AT ST. DENIS COMMUNITY SCHOOL	DRAWING #	P1600
DC SYSTEM SIZE:	76.12 kW	AC SYSTEM SIZE:	72.00 kW
MODULE TYPE:	CS3W-440WB-AG	MODULE TYPE:	CS3W-440WB-AG
STRING QUANTITY:	13	STRING QUANTITY:	13
LOCATION:	121 MCCLEEN AVE YONKERS, NY 10705	LOCATION:	121 MCCLEEN AVE YONKERS, NY 10705
DEVELOPER	 BARILE GALLAGHER & ASSOCIATES 39 MARBLE AVENUE PLEASANTVILLE, NJ 07078 WWW.BGA-ENG.COM NY LICENSE No. 091197	PAGE SIZE 36" x 24" PROJECT # 01541	 PUREPOWER ENGINEERING 111 MARBLE AVENUE PLEASANTVILLE, NJ 07078 WWW.PUREPOWER.COM RICHARD A. VINS NY LICENSE No. 091197
DATE	07/14/2021	REVISION DESCRIPTION	PM: ENS: CHIT