

Westover Magnet Elementary School

412 Stillwater Ave, Stamford, CT. 06902

VOLUME 2

STAMFORD PROJECT # S-6722

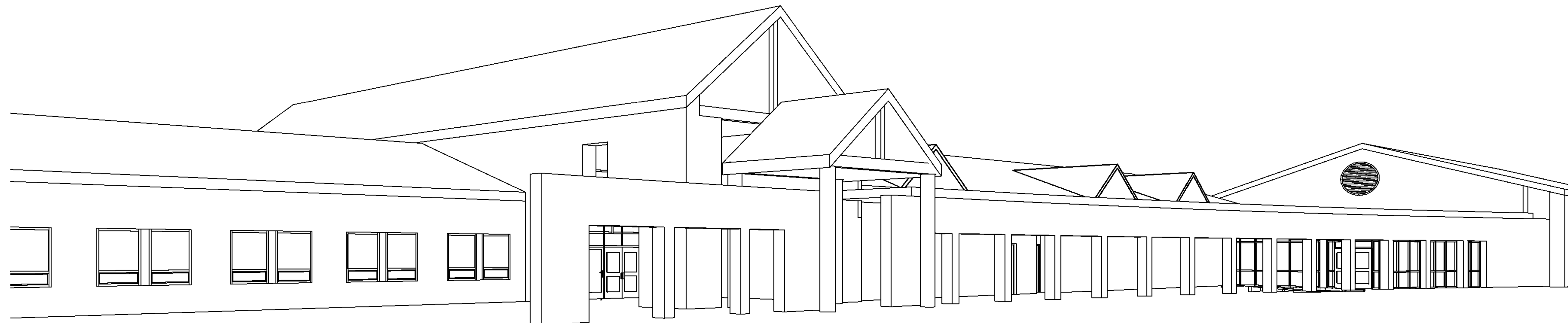
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COVER

T2

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
—	EX.	EXISTING TO REMAIN
—	NEW	NEW WORK
—	DEM.	EXISTING TO BE REMOVED
○	—	ELBOW UP
⊖	—	ELBOW DOWN
⊕	—	TEE DOWN
⊖	—	TEE UP
—	—	PIPE CAP OR FLUSHING CONNECTION
⊕	—	GATE VALVE
⊕	—	OS&Y GATE VALVE
⊕	—	BUTTERFLY VALVE
⊕	—	CHECK VALVE
⊕	—	UNION
⊕	—	TEMPERATURE GAGE
⊕	—	PRESSURE GAGE
FS	—	WATER FLOW SWITCH
TS	—	TAMPER SWITCH
⊕	—	INSPECTORS TEST CONNECTION
→	—	FLOW ARROW
×	—	SPRINKLER GUARD
○ _e OR ● _e	—	EXISTING SPRINKLER TO REMAIN
X OR *	—	EXISTING SPRINKLER TO BE REMOVED
○	—	NEW PENDENT SPRINKLER, CONCEALED OR EXPOSED AS NOTED
○	—	NEW UPRIGHT SPRINKLER
◀	—	SIDEWALL SPRINKLER
⊕	—	POINT OF CONNECTION
⊕	—	POINT OF DISCONNECTION
NI	—	HYDRAULIC REFERENCE NODE
SZ	—	HYDRAULIC REFERENCE SPRINKLER
FDC	—	FIRE DEPARTMENT CONNECTION
FP	—	FIRE PUMP

AFF	ABOVE FINISHED FLOOR
AHC	ABOVE HUNG CEILING
ATC	AT CEILING
BFP	BACKFLOW PREVENTOR
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
DCV	DOUBLE CHECK VALVE BFP
DN.	DOWN
FCA	FLOOR CONTROL ASSEMBLY
FD	FLOOR DRAIN
FLFD	FUNNEL FLOOR DRAIN
GPM	GALLONS PER MINUTE
JP	JOCKEY PUMP
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
(NO)	NORMALLY OPEN
(NC)	NORMALLY CLOSED
NTS	NOT TO SCALE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
RPZ	REDUCED PRESSURE ZONE BFP
SF	SQUARE FOOT
TS	TAMPER SWITCH
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED

NOTE: FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.

GENERAL NOTES

- THE REVISED SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY AN EXPERIENCED FIRE PROTECTION CONTRACTOR IN STRICT ACCORDANCE WITH NFPA-13, THE REQUIREMENTS OF THE LANDLORD, LANDLORD'S FIRE INSURANCE UNDERWRITER, AND ALL GOVERNMENTAL AGENCIES AND AUTHORITIES HAVING JURISDICTION OVER THE PREMISES.
- COORDINATE ALL WORK WITH OTHER TRADES TO MINIMIZE INTERFERENCES WITH NEW AND EXISTING FACILITIES, TO FACILITATE TIMELY COMPLETION AND AVOID NECESSITY FOR CUTTING AND PATCHING. FURNISH TO OTHER AFFECTED TRADES ALL NECESSARY INFORMATION, WORKING DRAWINGS OR MATERIALS REQUIRED FOR INSTALLATION AND COMPLETION OF ALL WORK. ALL CONFLICTS, OBSTRUCTIONS AND/OR MODIFICATIONS TO THE SPRINKLER DESIGN LAYOUT DUE TO FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION.
- CONTRACTOR SHALL CONDUCT FLOW TEST TO ESTABLISH EXACT FLOW AND PRESSURE AVAILABLE ON THE SITE FOR PREPARATION OF HYDRAULIC CALCULATIONS.
- ALTER PIPING AS REQUIRED TO SUIT NEW AND EXISTING CEILING HEIGHTS, DUCTWORK, AND LIGHTS. PROVIDE AT NO EXTRA COST ALL ADDITIONAL PIPING AND FITTINGS REQUIRED TO OFFSET SYSTEM TO AVOID STRUCTURAL, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL INTERFERENCES, WHETHER INDICATED OR NOT, BEFORE INSTALLING WORK.
- WHEN INSTALLING SPRINKLER HEADS, THE CONTRACTOR SHALL PROVIDE THE SHORTEST HYDRAULIC PIPE LENGTH BETWEEN THE FINAL SPRINKLER HEAD LOCATION AND THE BRANCH LINE CONNECTION. MINIMUM 1' FOR TWO HEADS, 1-1/4' FOR THREE HEADS AND 1-1/2' FOR FIVE HEADS.
- EXACT LOCATION OF SPRINKLER HEADS IN FINISHED AREAS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS. SPRINKLER HEADS INSTALLED IN HUNG CEILING WILL BE POSITIONED AS FOLLOWS: LOCATED WITH TOLERANCE ± 1/2" OF THE CENTERLINE OF THE TILES.
- INSTALL SPRINKLER HEADS TIGHT TO BOTTOM OF HUNG CEILING WITH CARE THAT THE FINISH IS NOT DAMAGED.
- WHEN CONCEALED TYPE SPRINKLER HEADS ARE USED, THE COVER PLATES WILL BE FLUSH WITH THE CEILING PLANE TO LIMIT SHADOW EFFECT. TOLERANCE GREATER THAN ± 1/8" IS UNACCEPTABLE.
- PROVIDE TWO 2-1/2 GALLON PRESSURIZED WATER AND ONE 10 LB ABC DRY CHEMICAL EXTINGUISHERS FOR EMERGENCY USE DURING CONSTRUCTION.
- SPRINKLER PLAN SHOWS NEW, EXISTING TO REMAIN AND SPRINKLER HEADS TO BE REMOVED ONLY. ADD SPRINKLER HEADS AS SHOWN ON PLAN AND REUSE EXISTING BRANCH PIPING, MODIFY, EXTEND, AND SHORTEN PIPING AS REQUIRED.
- EXISTING FLOW, TAMPER AND ALARM DEVICES MUST BE TIED INTO THE BUILDING'S FIRE ALARM SYSTEM. ALL REQUIRED EXTENDER PANELS, CODE TRANSMITTERS, ETC. AS MAY BE REQUIRED TO INTEGRATE THE SYSTEM EXPANSION SHALL BE FURNISHED AND INSTALLED BY THE SPRINKLER CONTRACTOR.
- EXISTING DRAIN VALVES AT MAIN SHUT-OFF VALVES, LOW POINTS, AND APPARATUS SHALL BE MAINTAINED.
- PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH A LISTED FIRE STOPPING ASSEMBLY OR MATERIAL.
- ALL HOSE CONNECTION AND FIRE DEPARTMENT CONNECTION THREADS SHALL BE TESTED TO VERIFY COMPATIBILITY WITH THREADS USED BY LOCAL FIRE DEPARTMENT, IN ACCORDANCE WITH NFPA-14 SECTION 11.3.
- THE CONTRACTOR SHALL MAKE A PROVISION FOR (5) EXTRA SPRINKLERS INCLUDING IMMEDIATE BRANCH PIPING, FITTINGS AND ARM-OVERS. THE CONTRACTOR SHALL COORDINATE WITH FINAL CONFIGURATION OF OPEN AND HUNG CEILINGS, ALL HVAC DUCTWORK AND PIPING AND STRUCTURAL ELEMENTS THROUGHOUT THE AREA OF WORK.

EQUIPMENT NOTES

- SPRINKLER COVER PLATE: SHALL BE SIMILAR TO RELIABLE G4/ G5 COVER PLATE

DESIGN CRITERIA

HAZARD CLASSIFICATION ⁽¹⁾	DENSITY ⁽²⁾	PROTECTION AREA PER SPRINKLER ⁽³⁾
LIGHT HAZARD	0.1 GPM / 1500 SQ. FT.	225 SQ. FT. MAX
ORDINARY HAZARD GROUP 1	0.15 GPM / 1500 SQ. FT.	130 SQ. FT. MAX
ORDINARY HAZARD GROUP 2	0.2 GPM / 1500 SQ. FT.	130 SQ. FT. MAX
EXTRA HAZARD GROUP 1	0.3 GPM / 2500 SQ. FT.	100 SQ. FT. MAX
EXTRA HAZARD GROUP 2	0.4 GPM / 2500 SQ. FT.	100 SQ. FT. MAX

- NOTES:**
- HAZARD CLASSIFICATION, DENSITY AND MAX. PROTECTION AREA SHALL BE IN ACCORDANCE WITH NFPA 13 RECOMMENDATIONS UNLESS OTHERWISE NOTED.
 - WHERE REQUIRED BY THE BUILDING DEPARTMENT OR AUTHORITY HAVING JURISDICTION FOR PERMIT, THE ENTIRE SYSTEM SHALL BE HYDRAULICALLY CALCULATED.
 - THE MINIMUM PRESSURE AT EACH SPRINKLER HEAD SHALL BE 7 PSI.
 - EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA 13.
 - DISCHARGE FROM EACH SPRINKLER SHALL NOT BE LESS THAN REQUIRED AREA COVERAGE BY THIS HEAD. AREA COVERAGE PER HEAD SHALL BE DETERMINED IN ACCORDANCE WITH NFPA 13 SECTION 8.6.2.2.1.
 - HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO THE CONNECTION TO THE RISER OR SPRINKLER CONTROL VALVE (F.C.A). FLOW VELOCITY IN SPRINKLER PIPING SHALL NOT EXCEED 20 FEET PER SECOND (FPS).

SPRINKLER HEAD SCHEDULE

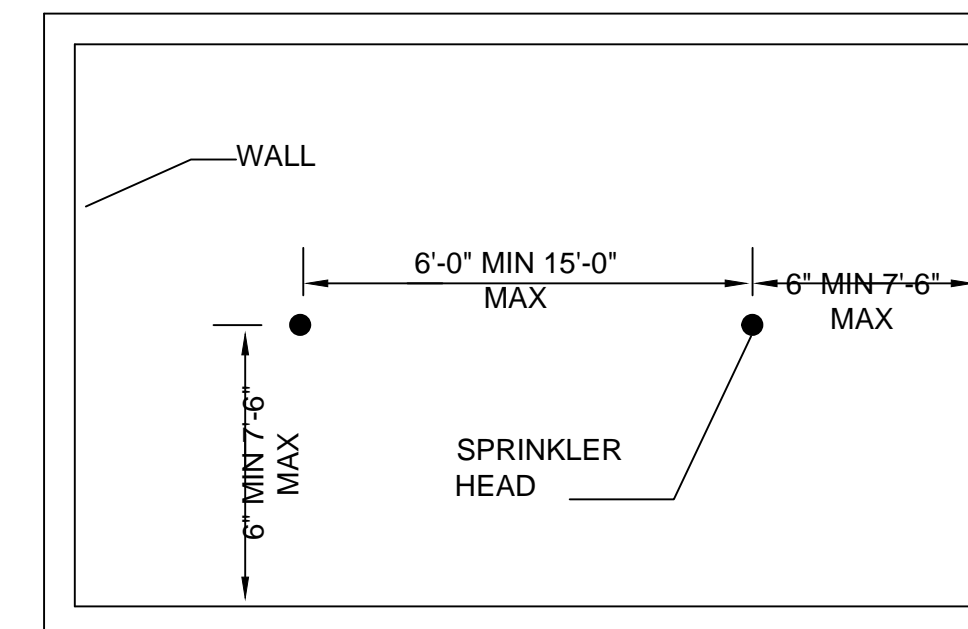
SYM.	TYPE	LOCATION	FINISH	MANUF.	MODEL	HEAD TEMP.	MAX CLG. TEMP.	ORIFICE	K-FACTOR	MEA#
●	CONCEALED	PER PLANS	PER ARCHITECT	RELIABLE	05-56	165°F	100°F	1/2"	5.6	258-93-E

NOTES:

- SPRINKLER HEADS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS
- PROVIDE METAL WIRE GUARDS WHERE SPRINKLERS ARE SUBJECT TO DAMAGE, SUCH AS SPRINKLER HEADS LOCATED UNDER MECHANICAL DUCTS IN MECHANICAL EQUIPMENT ROOMS WHEN LOCATED LOWER THAN 7'-0" AFF AND HEADS IN TRASH CHUTE.
- ALL SPRINKLER HEADS THROUGHOUT THE PROJECT AREA SHALL BE OF THE ORDINARY TEMPERATURE RATING EXCEPT AS FOLLOWS:
 - SPRINKLER HEADS LOCATED CLOSE TO HEATERS, HOT WATER PIPING OR LOW-PRESSURE BLOW-OFF VALVE SHALL BE OF THE TEMPERATURE RATING AS REQUIRED BY NFPA-13
 - ALL HEAT GENERATING EQUIPMENT WHICH CAN AFFECT THE TEMPERATURE RATING OF THE SPRINKLER HEADS SHALL BE CLEARLY IDENTIFIED ON THE SHOP DRAWINGS PRIOR TO SUBMISSION FOR APPROVAL.

4 SPRINKLER HEAD SCHEDULE

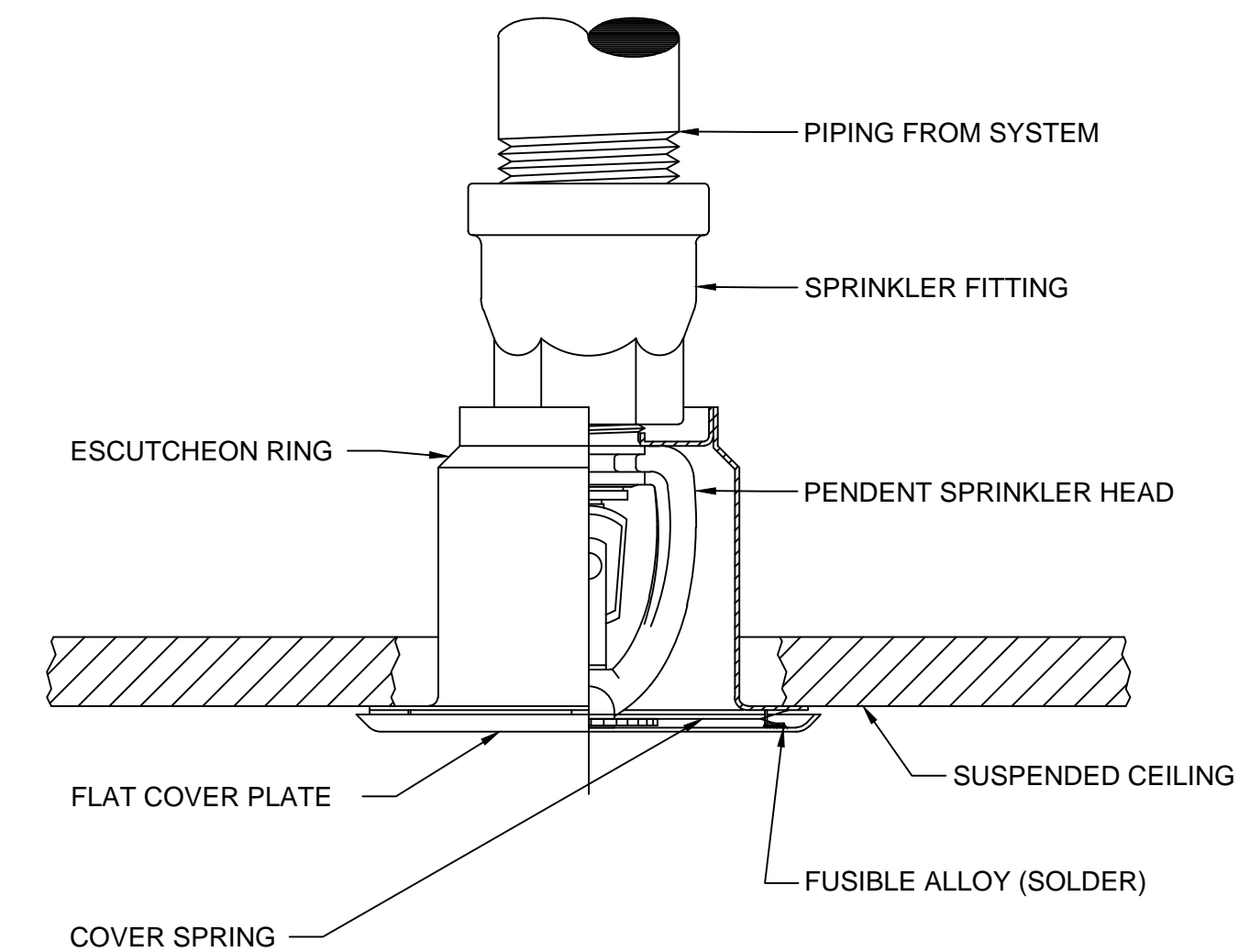
SCALE: NONE



HAZARD	MAX AREA PER HEAD	DENSITY PER 1500 SQ. FT.
LIGHT HAZARD	225 SQ. FT.	0.10 GPM/SQ. FT.
ORDINARY HAZARD	130 SQ. FT.	0.16 GPM/SQ. FT.

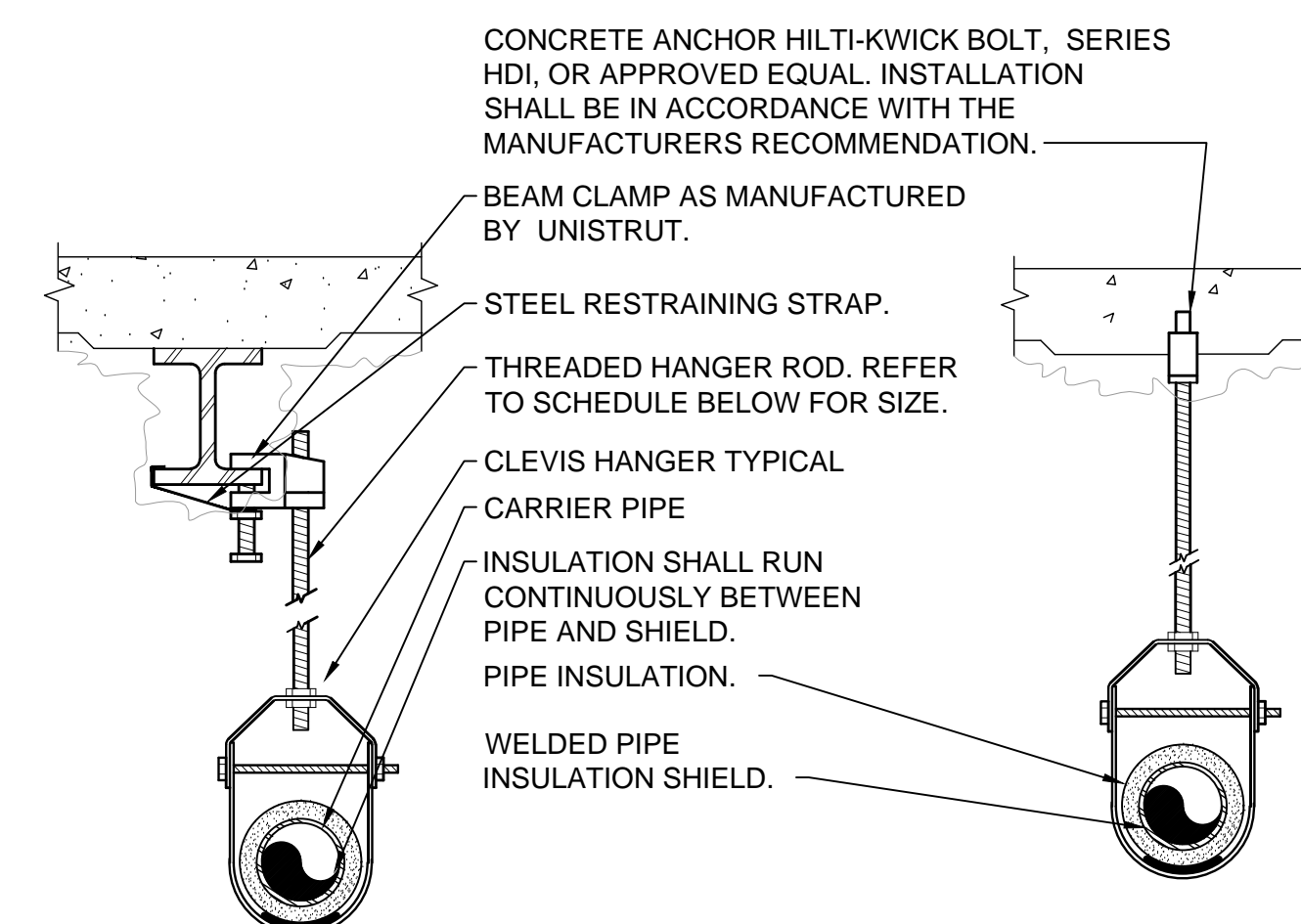
3 SPRINKLER HEAD SPACING CRITERIA

SCALE: NONE



2 CONCEALED PENDENT SPRINKLER HEAD IN SUSPENDED CEILING

SCALE: NONE



PIPE HANGER SCHEDULE

PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

- NOTES:**
- CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
 - FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
 - FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
 - ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
 - FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
 - WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

1 PIPE HANGER DETAIL

SCALE: NONE

Westover Magnet Elementary School

City of Stamford - Stamford Public Schools

412 Stillwater Ave, Stamford, CT. 06902

PROJECT # S-6722



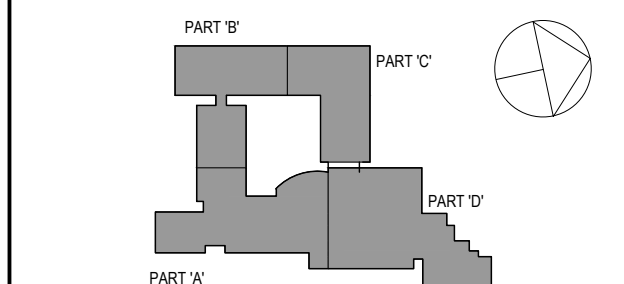
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Professional Seal

FIRE PROTECTION SYMBOLS, ABBREVIATIONS, AND NOTES

Job No. NKG0206.00 Date 08/6/2019
Scale AS NOTED Drawn / Checked

Sheet Number

FP001

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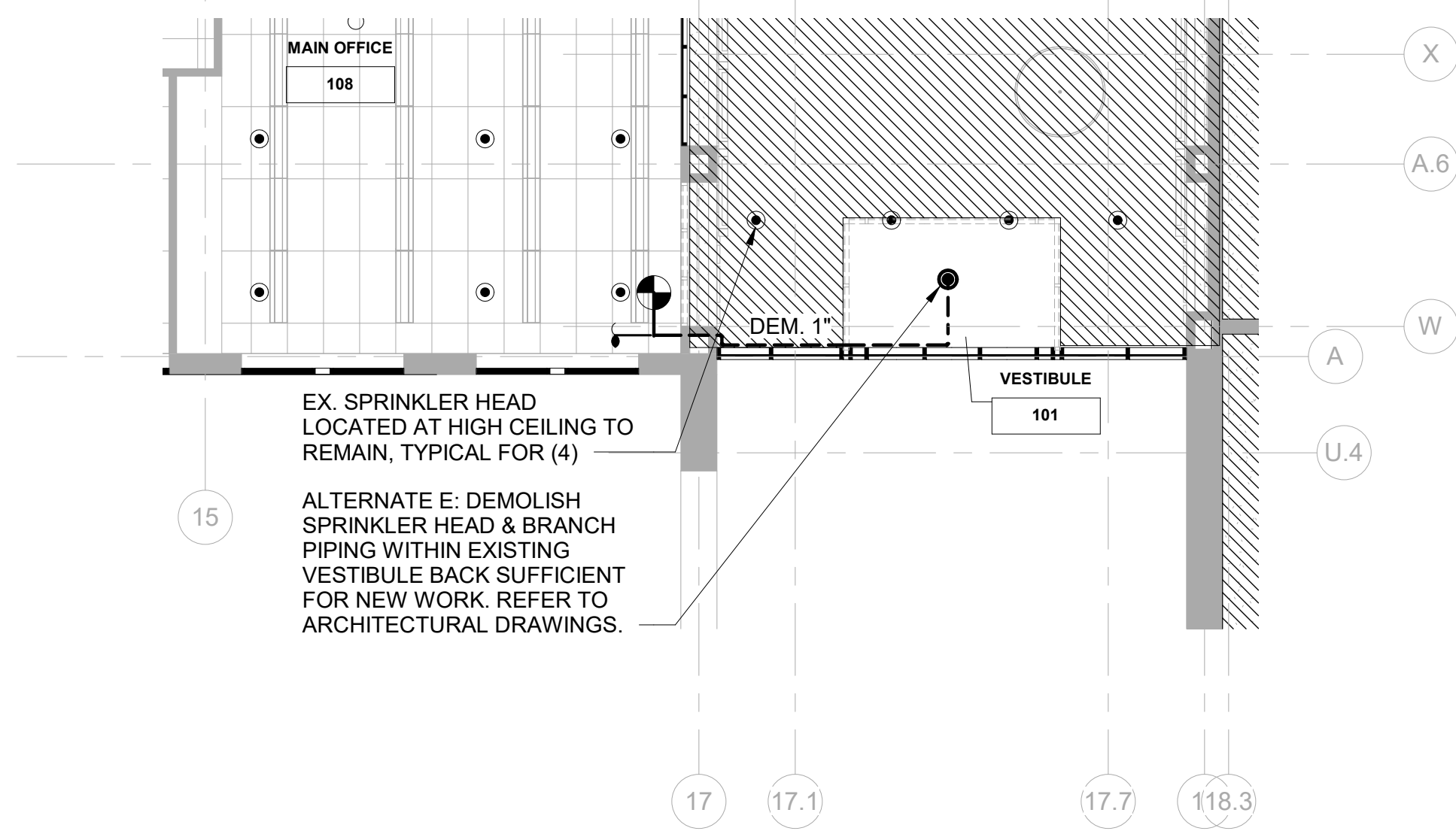
FIRE PROTECTION 1ST FLOOR PART 'A' PLAN

Job No.	Date
NKGD0206.00	08/06/2019

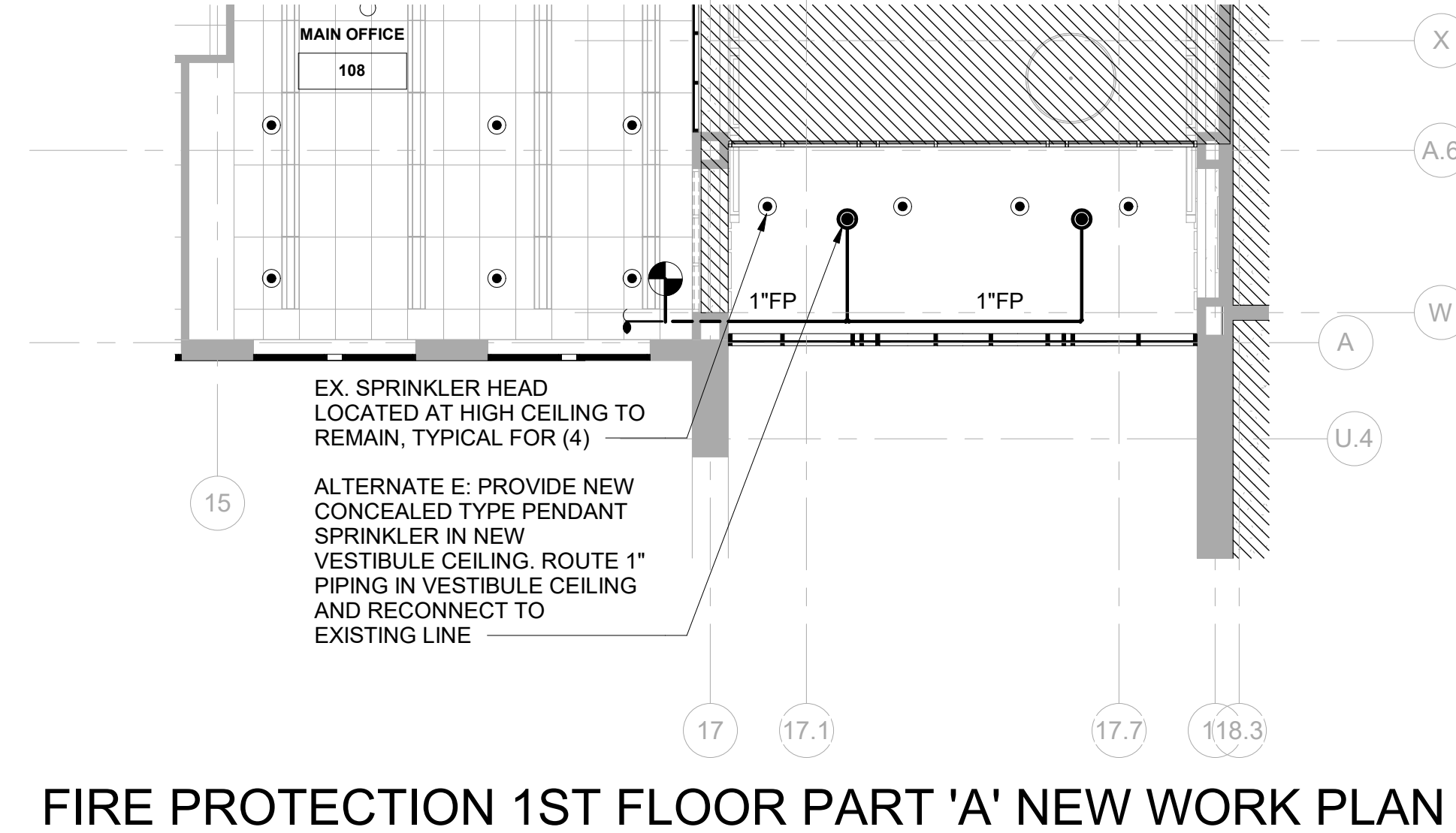
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AS NOTED	Author / Checker

Sheet Number

FP201



2 FIRE PROTECTION 1ST FLOOR PART 'A' DEMO PLAN - ALTERNATE E
SCALE: 1/8" = 1'-0"



3 FIRE PROTECTION 1ST FLOOR PART 'A' NEW WORK PLAN - ALTERNATE E
SCALE: 1/8" = 1'-0"



1 FIRE PROTECTION 1ST FLOOR PART 'A' PLAN
SCALE: 1/8" = 1'-0"

Westover Magnet Elementary School

City of Stamford - Stamford Public Schools

412 Stillwater Ave, Stamford, CT. 06902

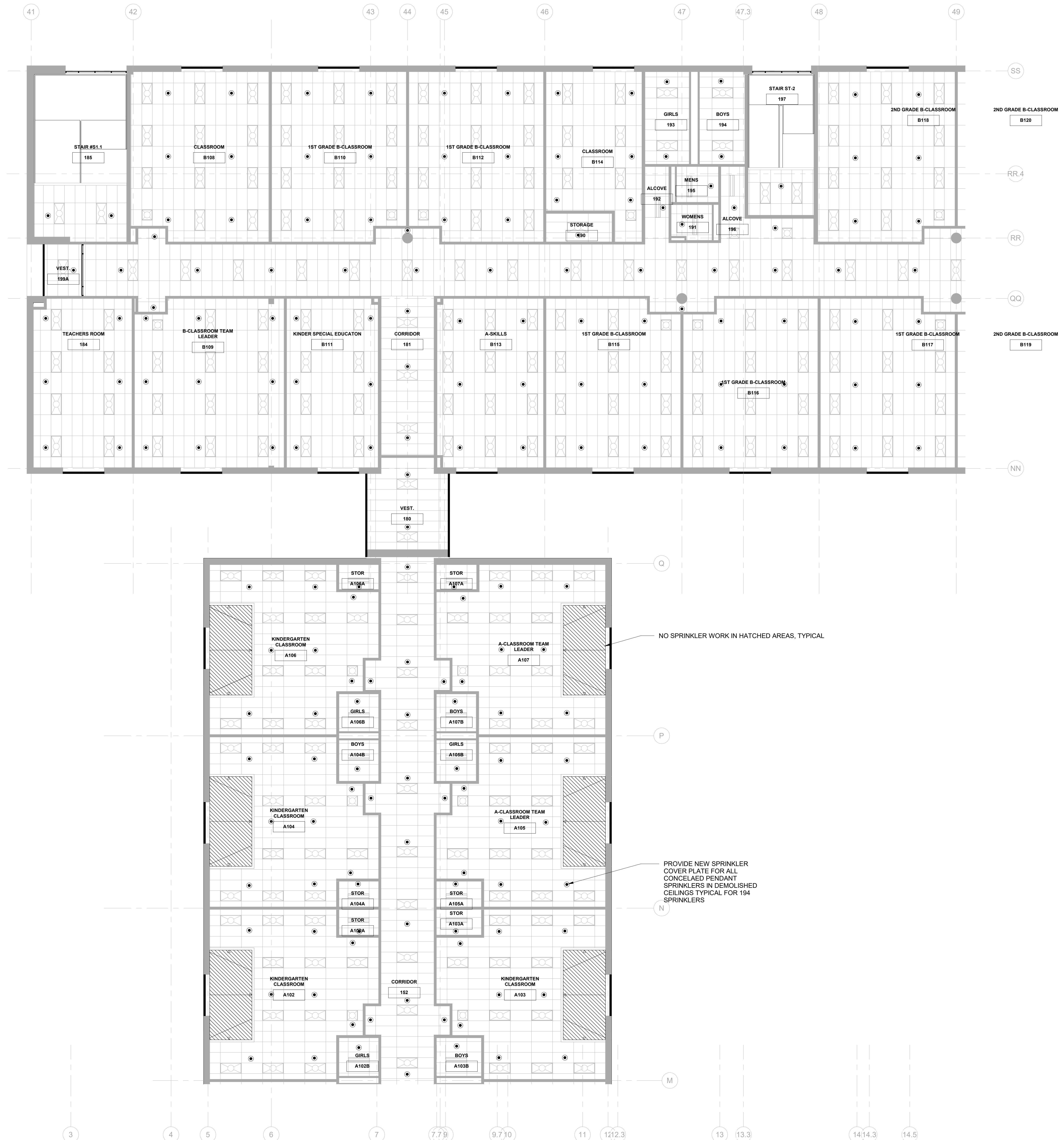
PROJECT # S-6722



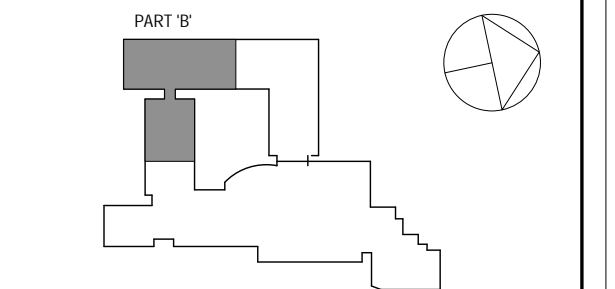
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FIRE PROTECTION 1ST FLOOR PART 'B' PLAN

Job No.	NKGD0206.00	Date	08/06/2019
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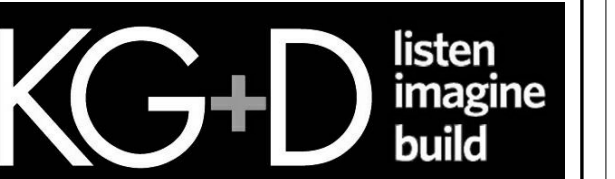
1 FIRE PROTECTION 1ST FLOOR PART 'B' PLAN
SCALE: 1/8" = 1'-0"
NORTH

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Elementary School**

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Public Schools

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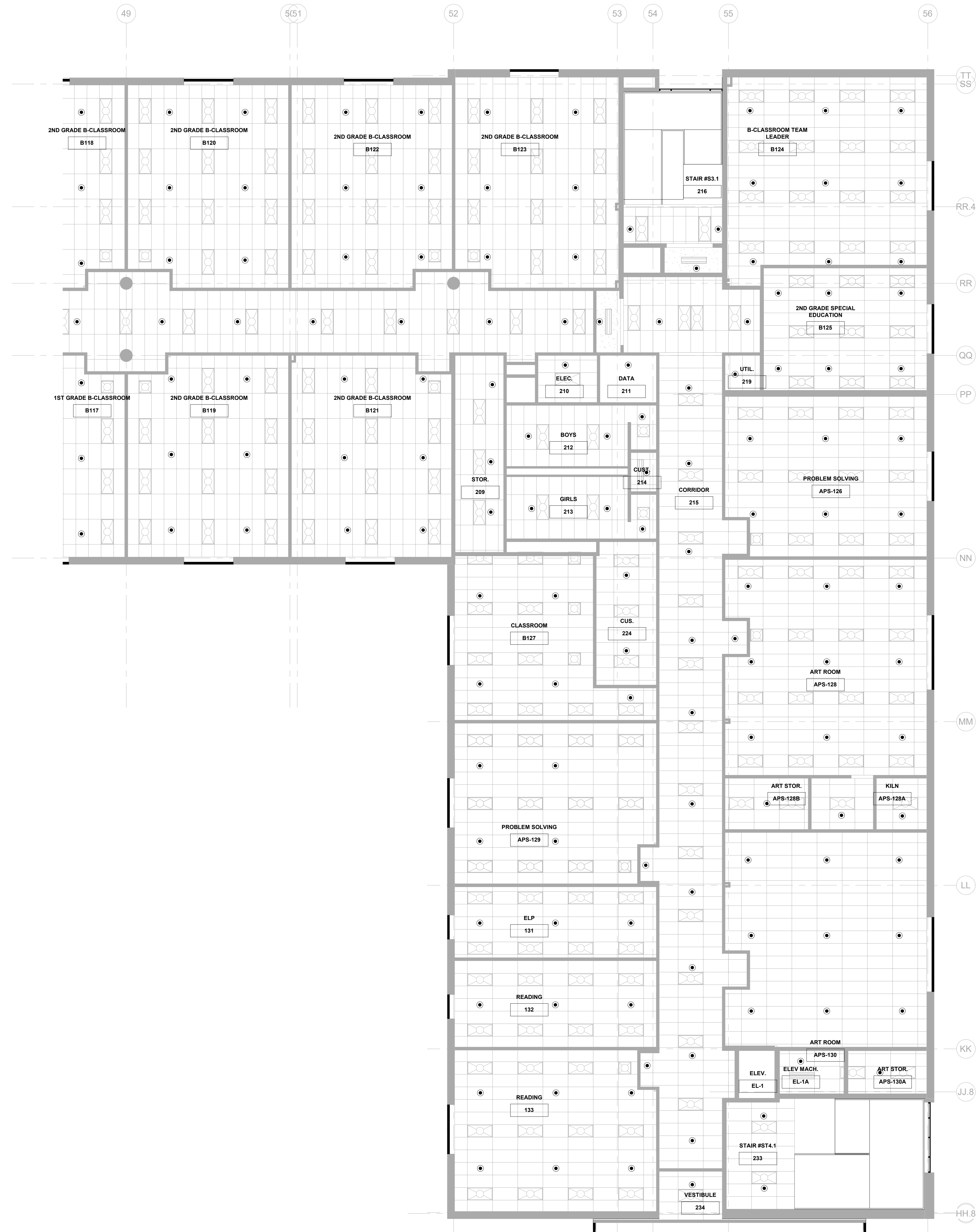
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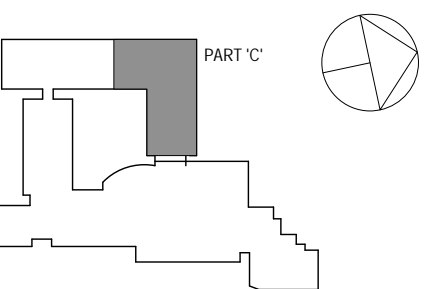
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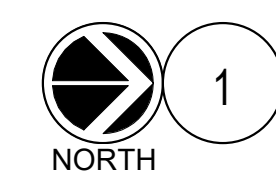
FIRE PROTECTION 1ST FLOOR
PART 'C' PLAN

Job No. NKGD0206.00 Date 08/06/2019

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FP203



1 FIRE PROTECTION 1ST FLOOR PART 'C' PLAN

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

Westover Magnet
Elementary School

City of Stamford - Stamford
Public Schools
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CT. 06902

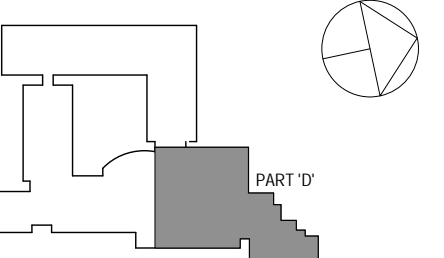
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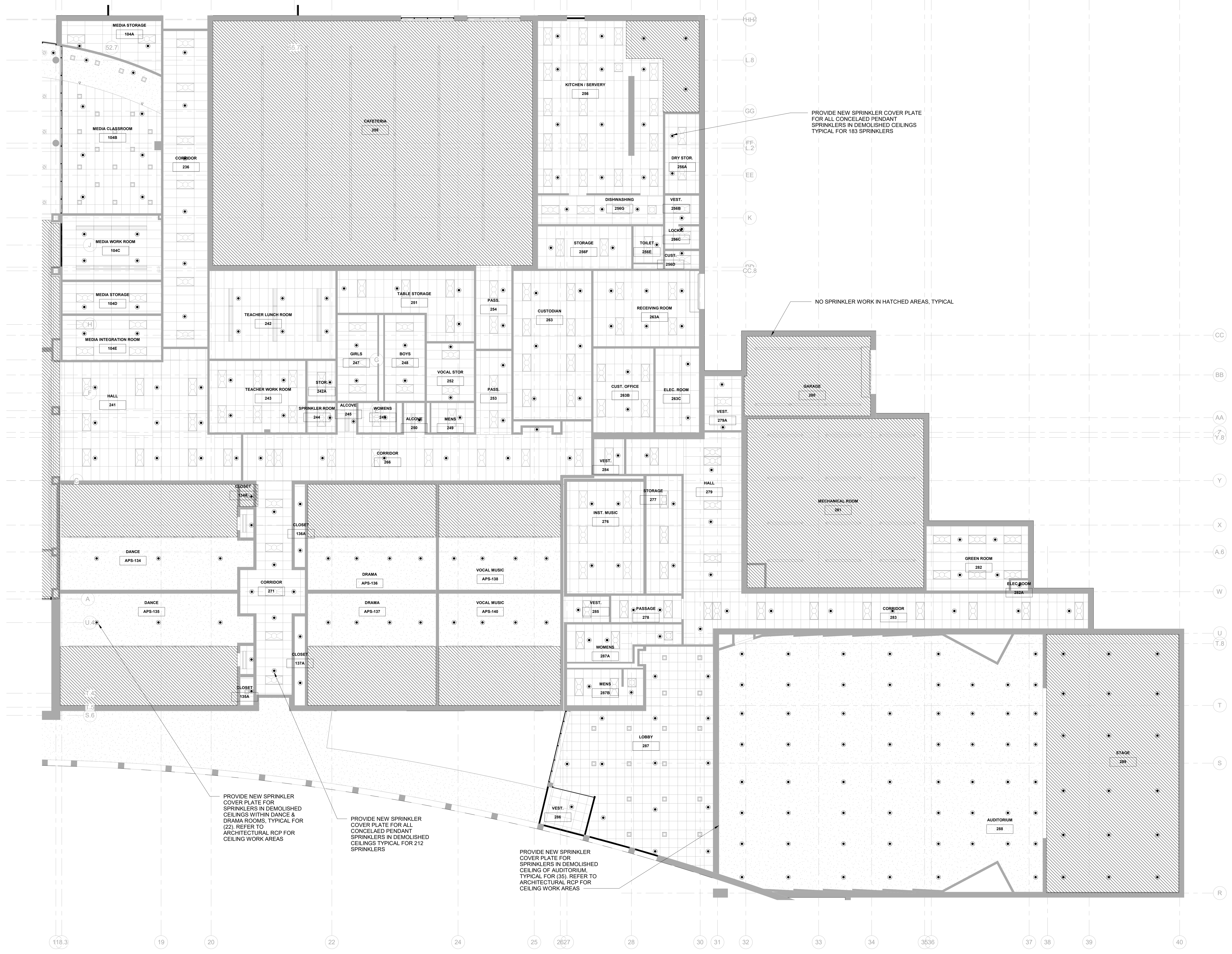
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FIRE PROTECTION 1ST FLOOR
PART 'D' PLAN

Job No.	Date
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FP204



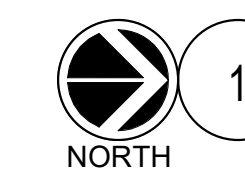
PROVIDE NEW SPRINKLER COVER PLATE FOR ALL CONCEALED PENDANT SPRINKLERS IN DEMOLISHED CEILINGS TYPICAL FOR 183 SPRINKLERS

NO SPRINKLER WORK IN HATCHED AREAS, TYPICAL

PROVIDE NEW SPRINKLER COVER PLATE FOR SPRINKLERS IN DEMOLISHED CEILINGS WITHIN DANCE & DRAMA ROOMS, TYPICAL FOR (22). REFER TO ARCHITECTURAL RCP FOR CEILING WORK AREAS

PROVIDE NEW SPRINKLER COVER PLATE FOR ALL CONCEALED PENDANT SPRINKLERS IN DEMOLISHED CEILINGS TYPICAL FOR 212 SPRINKLERS

PROVIDE NEW SPRINKLER COVER PLATE FOR SPRINKLERS IN DEMOLISHED CEILING OF AUDITORIUM, TYPICAL FOR (35). REFER TO ARCHITECTURAL RCP FOR CEILING WORK AREAS



1 FIRE PROTECTION 1ST FLOOR PART 'D' PLAN

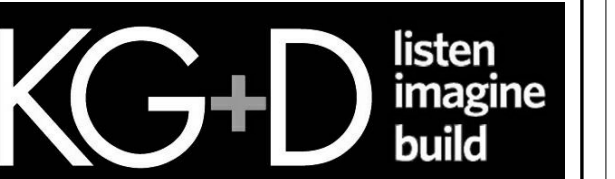
SCALE: 1/8" = 1'-0"

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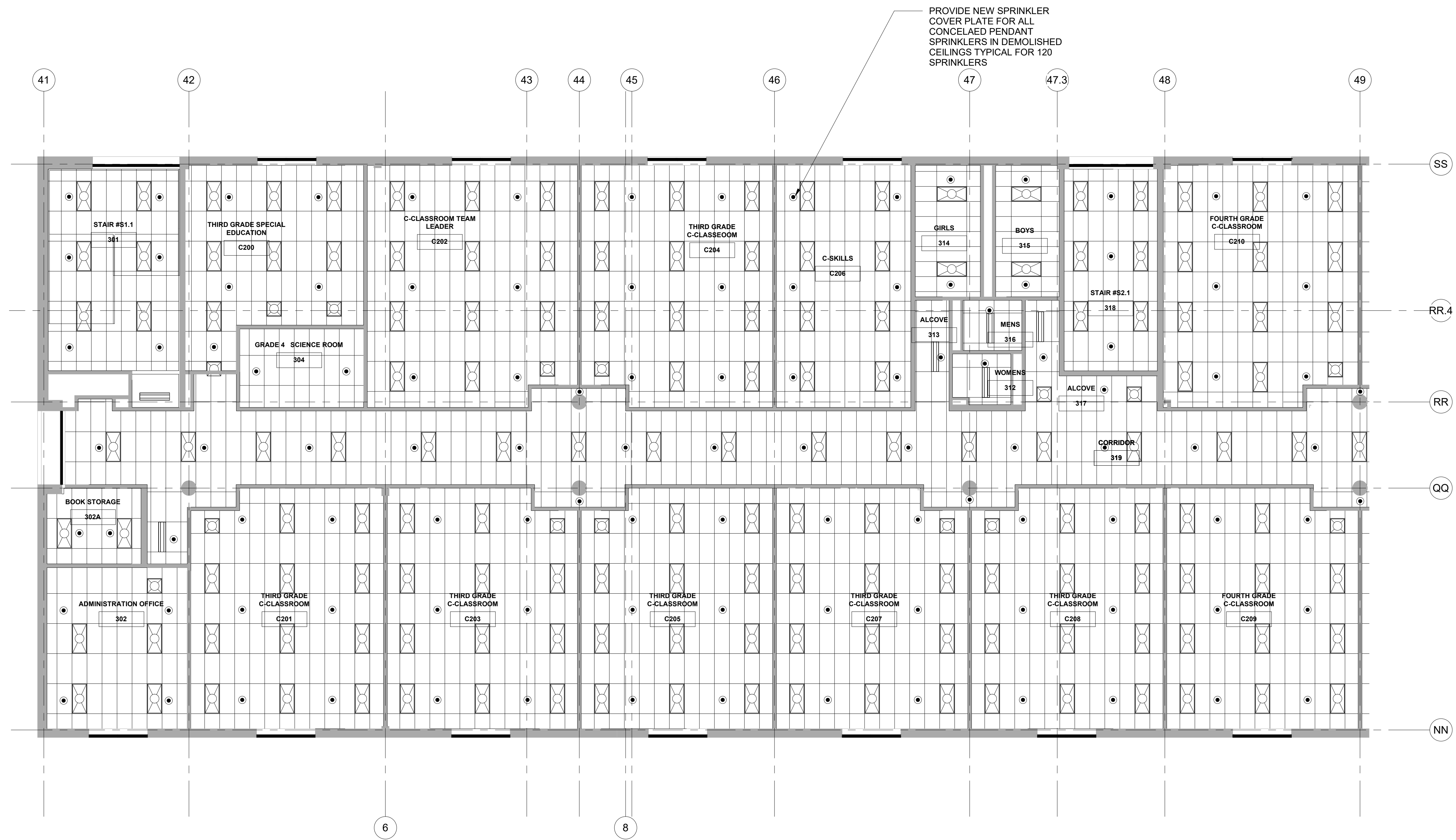
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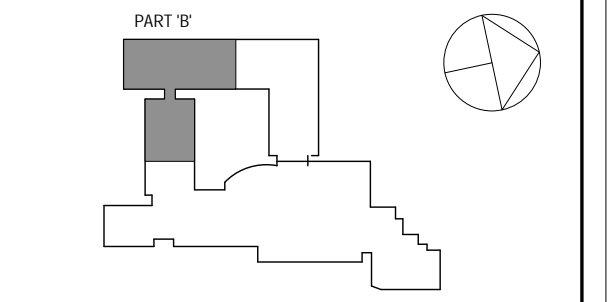


CONSTRUCTION DOCUMENTS



FIRE PROTECTION 2ND FLOOR PART 'B' PLAN
SCALE: 1/8" = 1'-0"

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FIRE PROTECTION 2ND FLOOR
PART 'B' PLAN

Job No.	NKGD0206.00	Date	08/06/2019
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FP205

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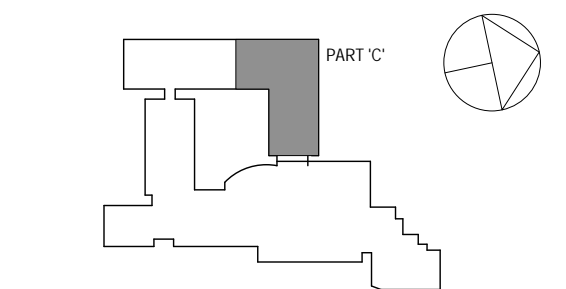
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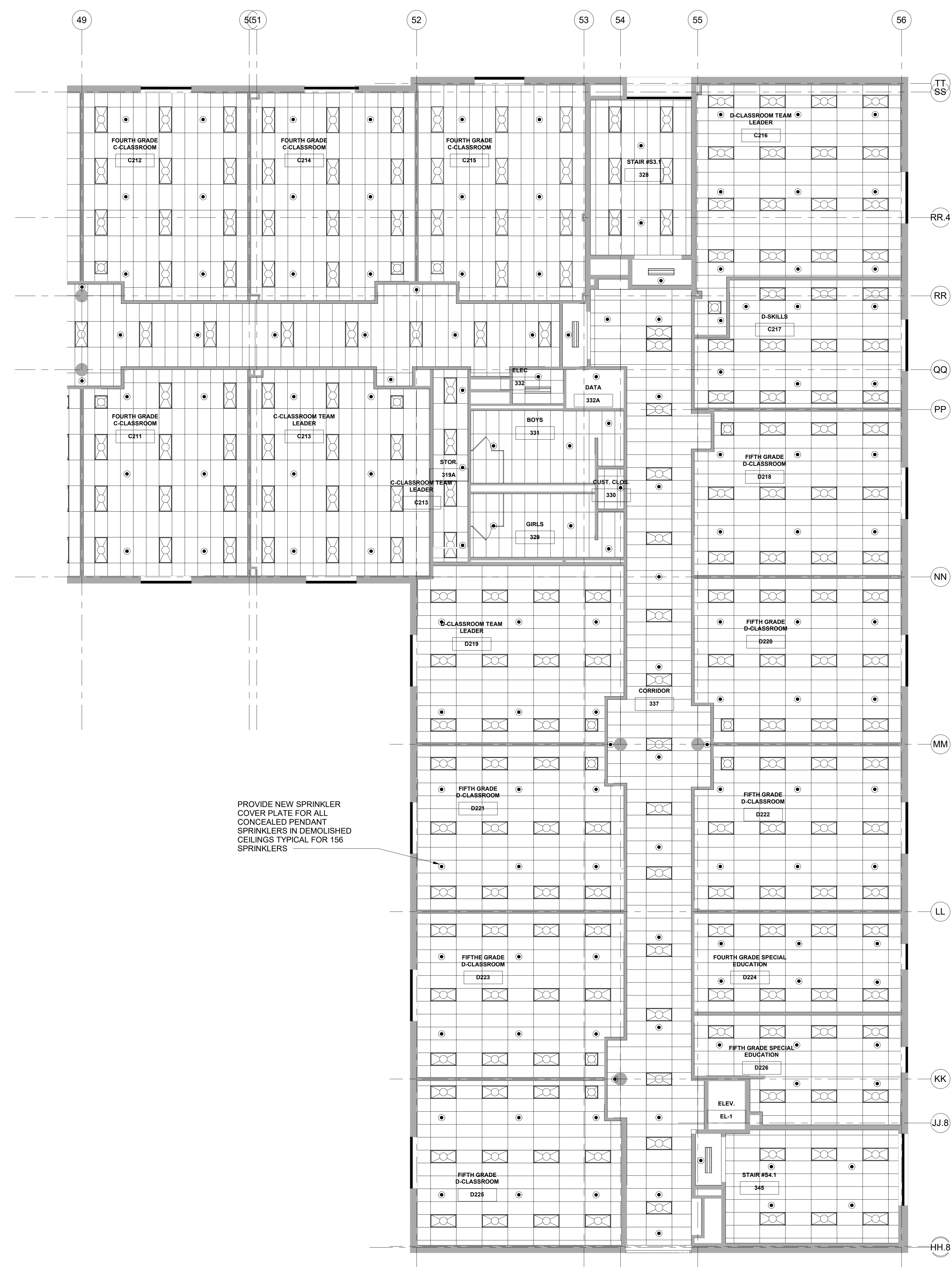
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FIRE PROTECTION 2ND FLOOR
PART 'C' PLAN

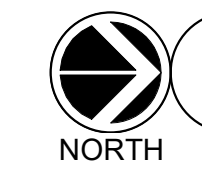
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FP206



PROVIDE NEW SPRINKLER
COVER PLATE FOR ALL
CONCEALED PENDANT
SPRINKLERS IN DEMOLISHED
CEILING TYPICAL FOR 156
SPRINKLERS

1 FIRE PROTECTION 2ND FLOOR PART 'C' PLAN
SCALE: 1/8" = 1'-0"



PLUMBING FIXTURE SCHEDULE

TAG	SYMBOLS		FIXTURES	PLUMBING CONNECTIONS				DESCRIPTION
	PLAN	ELEVATION		WASTE	VENT	COLD WATER	HOT WATER	
P-1A			CLASSROOM SINK/BUBBLER	1 1/2"	1 1/2"	3/4"	3/4"	SINK: ELKAY DRKAD2822RC FAUCET: ELKAY LKF413945RS BUBBLER: ELKAY MODEL LK11414A
P-1B			HEALTH CLINIC SINK	1 1/2"	1 1/2"	1/2"	1/2"	SINK: ELKAY MODEL DRKAD221755 FAUCET: ELKAY LKF413945RS
P-1C			TEACHERS ROOM SINK	1 1/2"	1 1/2"	1/2"	1/2"	SINK: ELKAY LR2522 FAUCET: LKF413945RS
P-2			WATER COOLER	1 1/4"	1 1/4"	3/8"	-	HALLWAY WATER COOLER: ELKAY MODEL VRCGRN8
RD/OD			ROOF DRAIN / OVERFLOW DRAIN	AS NOTED	-	-	-	RD: JAY R SMITH NUMBER 1015; DUCO CAST IRON BODY AND FLASHING COLLAR, ADJUSTABLE NICKEL BRONZE VANDAL PROOF DOME. REFER TO ROOF PLANS FOR SIZE. OD: JAY R SMITH NUMBER 1080; DUCO CAST IRON BODY AND FLASHING CLAMP AND GRAVEL STOP WITH POLYETHYLENE DOME AND CAST IRON WATER DAM. REFER TO ROOF PLANS FOR SIZE.

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
-	AFF	ABOVE FINISHED FLOOR
-	AHC	ABOVE HUNG CEILING
-	BFP	BACK FLOW PREVENTOR
	-	BALL VALVE
	-	BASKET STRAINER
	-	BUTTERFLY VALVE
	-	CHECK VALVE
	-	CIRCUIT SETTER
	CODP	CLEAN OUT DECK PLATE
	CW	COLD WATER
	-	CONCENTRIC REDUCER
	DCV	DOUBLE CHECK VALVE - BFP
	-	ECCENTRIC REDUCER
	-	ELBOW DOWN
	-	ELBOW UP
-	EX.	EXISTING TO REMAIN
	-	FLEXIBLE CONNECTION
-	FCO	FLOOR CLEAN OUT
-	FS	FLOOR SINK
	-	FLOW ARROW
-	FAI	FRESH AIR INTAKE
	G	GAS
	-	GATE VALVE
	-	GLOBE VALVE
	HT	HEAT TRACE PIPING TAG
	HTC	HEAT TRACE CONTROLLER TAG
	HW	HOT WATER
	HWC	HOT WATER RECIRCULATION
	CW	COLD WATER
	-	MANUAL AIR VENT
-	NEW	NEW WORK
	-	OS&Y GATE VALVE
	OD	OVERFLOW STORM DRAIN
	-	PLUMBING RISER TAG
	-	PLUG VALVE
-	-	PIPE CAP
	-	PRESSURE GAGE
	-	PRESSURE REDUCING VALVE
	-	PUMP
-	PD	PUMP DISCHARGE
-	RPZ	REDUCED PRESSURE ZONE - BFP
-	REL	REMOVE AND RELOCATE
-	S	SANITARY
	S	SANITARY UNDER SLAB
	-	SOLENOID VALVE
	-	STRAINER
-	SD	STORM DRAINAGE
	SD	STORM DRAINAGE UNDER SLAB
	-	TEE DOWN
	-	TEE UP
	-	THERMOMETER
-	TYP.	TYPICAL
	-	T&P RELIEF VALVE
	-	UNION
	V	VENT
-	VTR	VENT THROUGH ROOF
-	W	WASTE LINE
	-	2-WAY VALVE
	-	3-WAY VALVE

GENERAL NOTES

- THE CONTRACT DRAWINGS INDICATE THE EXTENT AND GENERAL ARRANGEMENTS OF THE PLUMBING SYSTEMS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY BY THE PLUMBING CONTRACTOR, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFOR SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL. NO SUCH DEPARTURES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND ENGINEER. EQUIPMENT AND PIPING ARRANGEMENTS SHALL PROVIDE ADEQUATE AND ACCEPTABLE CLEARANCES FOR ENTRY, SERVICING, AND MAINTENANCE. ANY CHANGES TO PIPING AND EQUIPMENT LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST.
- THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE PREVAILING CONNECTICUT PLUMBING AND BUILDING CODES. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
- THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
- CONNECTIONS TO UTILITIES AND SERVICES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, INVERT ELEVATIONS, AND SIZES OF EXISTING PLUMBING SERVICES IN FIELD, AND SHALL CONNECT NEW PLUMBING SERVICES AS INDICATED ON DRAWINGS.
- PRIOR TO FABRICATION, THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB SITE, AND COORDINATE THIS WORK WITH THE WORK OF ALL OTHER TRADES.
- ALL ACCESS PANELS SHALL BE BY GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THEIR LOCATION.
- PROVIDE ALL PLUMBING FIXTURES, PIPING, VALVES AND ACCESSORY ITEMS AS SPECIFIED AND AS REQUIRED FOR A COMPLETE INSTALLATION. ROUGHING DIMENSIONS OF FIXTURES MUST BE COORDINATED WITH THE GENERAL CONTRACTOR.
- PITCH ALL WASTE, SANITARY, AND STORM DRAIN PIPING AT MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN 1/8" PER FOOT FOR PIPING ≥ 3" AND 1/4" PER FOOT FOR PIPING ≤ 2 1/2".
- NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.
- PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.
- PROVIDE SHUTOFF VALVES AT ALL FIXTURES AND EQUIPMENT ON COLD WATER, HOT WATER, AND GAS PIPES.
- ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
- PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
- PROVIDE TRAP SEAL PRIMERS FOR FLOOR DRAINS WHERE INDICATED. INSTALL THE PRIMER VALVE IN THE COLD WATER SERVICE, WITH THE TRAP CONNECTION PIPED TO THE FLOOR DRAIN TRAP. LOCATE THE VALVE IN AN ACCESSIBLE LOCATION.
- THE PLUMBING CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, PAINTING, ACCESS PANELS, AND FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION OF PLUMBING PIPING, INCLUDING ABOVE CEILINGS AND IN SHAFTS.
- ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE PLUMBING CONTRACTOR FOR PLUMBING EQUIPMENT SHALL BE HEAVY DUTY TYPE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.
- THE OWNER'S PERMANENT EQUIPMENT SHALL NOT BE USED FOR VENTILATION DURING CONSTRUCTION.

EQUIPMENT NOTES

- KITCHEN SUB-SLAB GREASE INTERCEPTOR: SHALL BE THERMACO TRAPZILLA MODEL TZ-600, LINEAR LOW-DENSITY ROTATIONALLY MOLDDED POLYETHYLENE GREASE INTERCEPTOR, SHALL BE ASME A112.14.3 RATED AT 75 GPM AND FACTORY RATED AT 150 GPM PEAK FLOW, 600 POUNDS OF GREASE STORAGE CAPACITY WITH A FLAT GREASE SEPARATION EFFICIENCY CURVE, CRUSH-RESISTANT CYLINDRICAL WALLS, TWIN INTEGRAL PORTALS FOR ACCESS FOR GREASE REMOVAL.

Westover Magnet Elementary School

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412 Stillwater Ave, Stamford, CT. 06902

PROJECT # S-6722

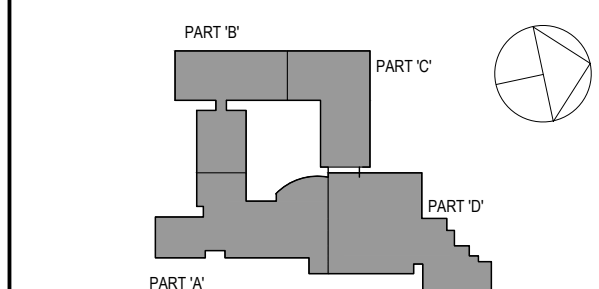


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914.747.2800
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646.849.4110
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CONSTRUCTION DOCUMENTS

SPN 135-0278RR



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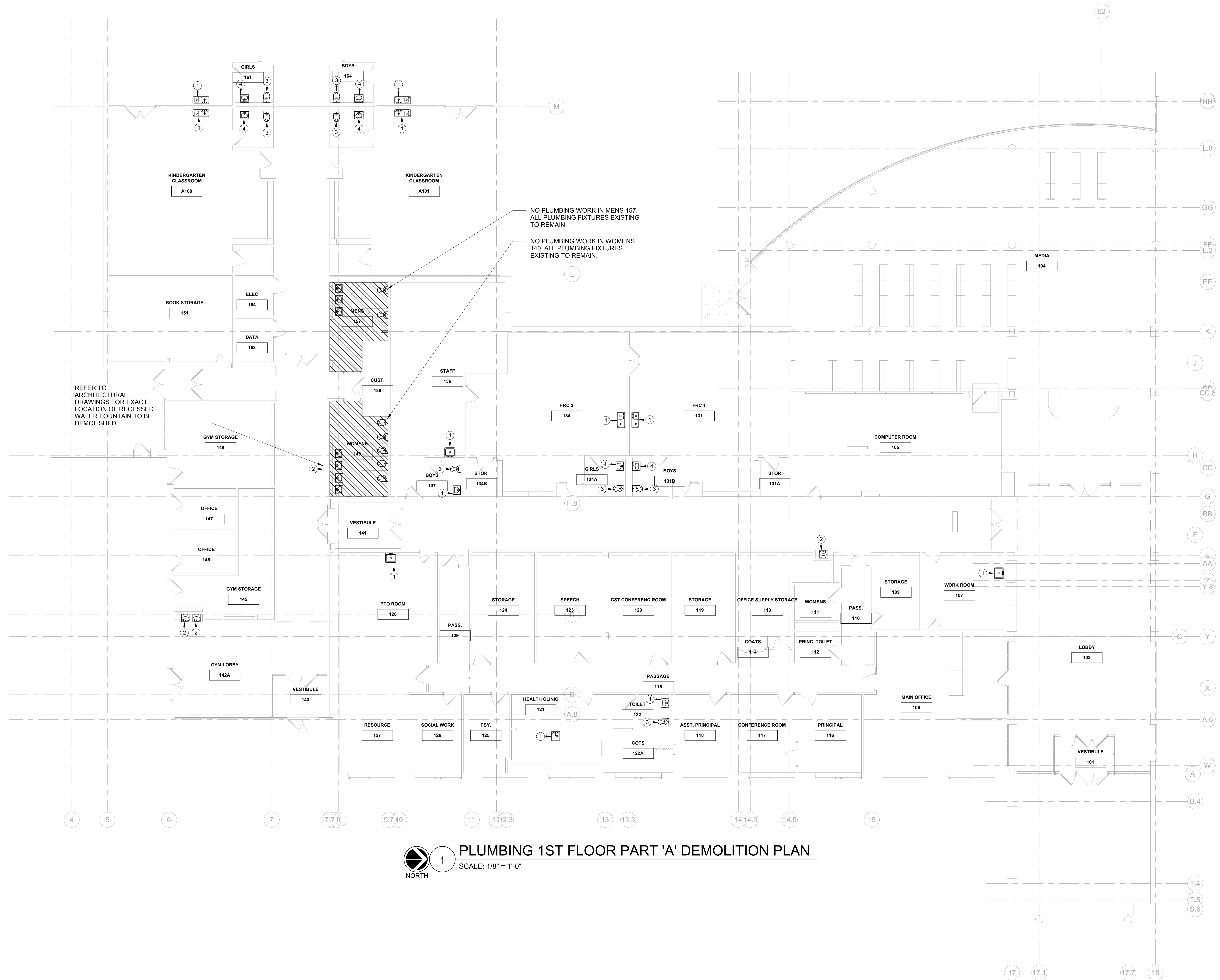
3	8/6/2019	ISSUED FOR BID
2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING

No. _____ Date _____ Issue _____

PLUMBING SYMBOLS, ABBREVIATIONS, AND NOTES

Job No. NKGD0206.00 Date 08/6/2019
Scale AS NOTED Drawn / Checked

Sheet Number
P001



1 PLUMBING 1ST FLOOR PART 'A' DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
NORTH

SPN 135-0278RR



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PLUMBING DEMOLITION NOTES		
1	DEMOLISH CLASSROOM SINK, FAUCET & BUBBLER (IF APPLICABLE), INCLUDING ASSOCIATED COLD/HOT WATER, WASTE, & VENT PIPING; SUFFICIENT FOR REUSE DURING NEW WORK PHASE.	
2	DEMOLISH WATERCOOLER COMPLETE INCLUDING ASSOCIATED COLD WATER, WASTE, & VENT PIPING; SUFFICIENT FOR REUSE DURING NEW WORK PHASE. DEMOLISH PVC DRAINAGE PIPING ASSOCIATED WITH DRINKING FOUNTAIN.	
3	REMOVE EXISTING TOILET, PROTECT & STORE FOR RE-INSTALLATION DURING NEW WORK PHASE. CAP & PROTECT EXISTING COLD, SANITARY, & VENT PIPING FOR REUSE DURING NEW WORK PHASE.	
4	REMOVE EXISTING LAVATORY, PROTECT & STORE FOR REINSTALLATION DURING NEW WORK PHASE. CAP & PROTECT EXISTING COLD/HOT WATER, WASTE, & VENT PIPING FOR REUSE DURING NEW WORK PHASE.	
5	COVER/PROTECT ALL EXISTING FLOOR DRAINS & CLEAN OUT DECK PLATES WITHIN FLOORS BEING DEMOLISHED	
6	RE-INSULATE ALL PLUMBING PIPING THROUGHOUT ENTIRE BUILDING INCLUDING DOMESTIC COLD WATER, HOT WATER, & HOT WATER RECIRCULATION LINES	

3	8/6/2019	ISSUED FOR BID
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1	5/15/2019	ISSUED FOR PRICING
No.	Date	Issue

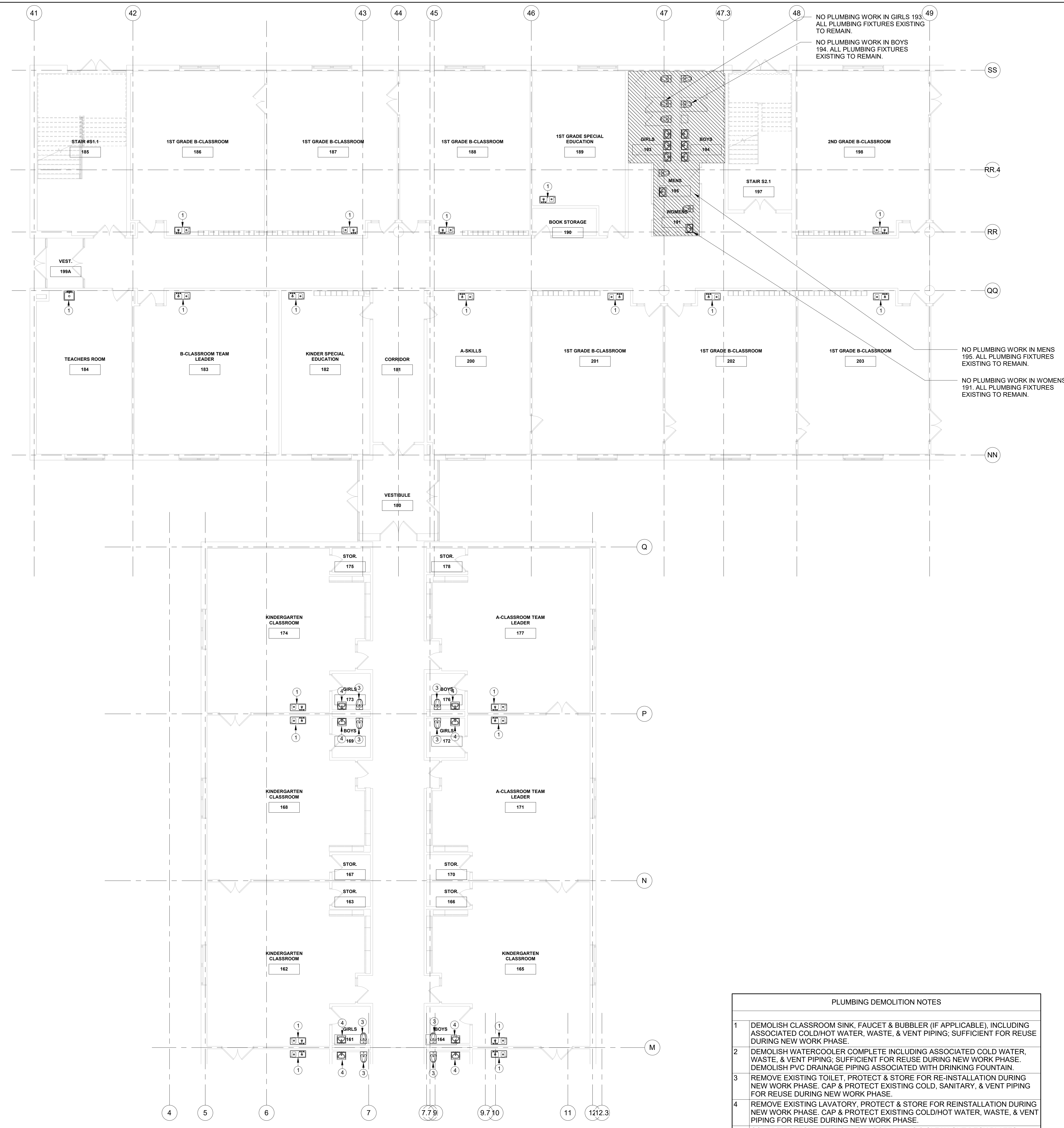
PLUMBING 1ST FLOOR PART 'A'
DEMOLITION PLAN

Job No. NKGD0206.00 Date 08/06/2019

Scale AS NOTED Drawn / Checked Author Checker

Sheet Number

P101



NO PLUMBING WORK IN GIRLS 193
ALL PLUMBING FIXTURES EXISTING
TO REMAIN.

NO PLUMBING WORK IN BOYS
194. ALL PLUMBING FIXTURES
EXISTING TO REMAIN.

NO PLUMBING WORK IN MENS
195. ALL PLUMBING FIXTURES
EXISTING TO REMAIN.

NO PLUMBING WORK IN WOMENS
191. ALL PLUMBING FIXTURES
EXISTING TO REMAIN.

**Westover Magnet
Elementary School**

City of Stamford - Stamford
Public Schools

412 Stillwater Ave, Stamford,
CT. 06902

PROJECT # S-6722

KG+D listen
imagine
build

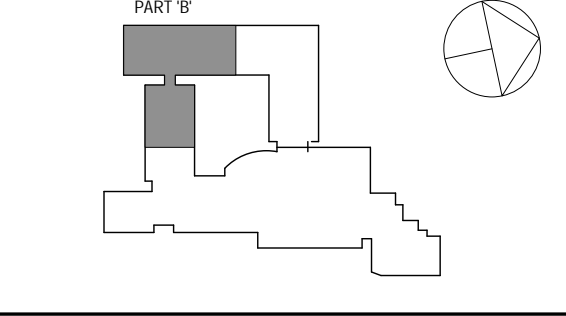
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PLUMBING DEMOLITION NOTES		
1	DEMOLISH CLASSROOM SINK, FAUCET & BUBBLER (IF APPLICABLE), INCLUDING ASSOCIATED COLD/HOT WATER, WASTE, & VENT PIPING; SUFFICIENT FOR REUSE DURING NEW WORK PHASE.	
2	DEMOLISH WATERCOOLER COMPLETE INCLUDING ASSOCIATED COLD WATER, WASTE, & VENT PIPING; SUFFICIENT FOR REUSE DURING NEW WORK PHASE. DEMOLISH PVC DRAINAGE PIPING ASSOCIATED WITH DRINKING FOUNTAIN.	
3	REMOVE EXISTING TOILET, PROTECT & STORE FOR RE-INSTALLATION DURING NEW WORK PHASE. CAP & PROTECT EXISTING COLD, SANITARY, & VENT PIPING FOR REUSE DURING NEW WORK PHASE.	
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5	COVER/PROTECT ALL EXISTING FLOOR DRAINS & CLEAN OUT DECK PLATES WITHIN FLOORS BEING DEMOLISHED	
6	RE-INSULATE ALL PLUMBING PIPING THROUGHOUT ENTIRE BUILDING INCLUDING DOMESTIC COLD WATER, HOT WATER, & HOT WATER RECIRCULATION LINES	

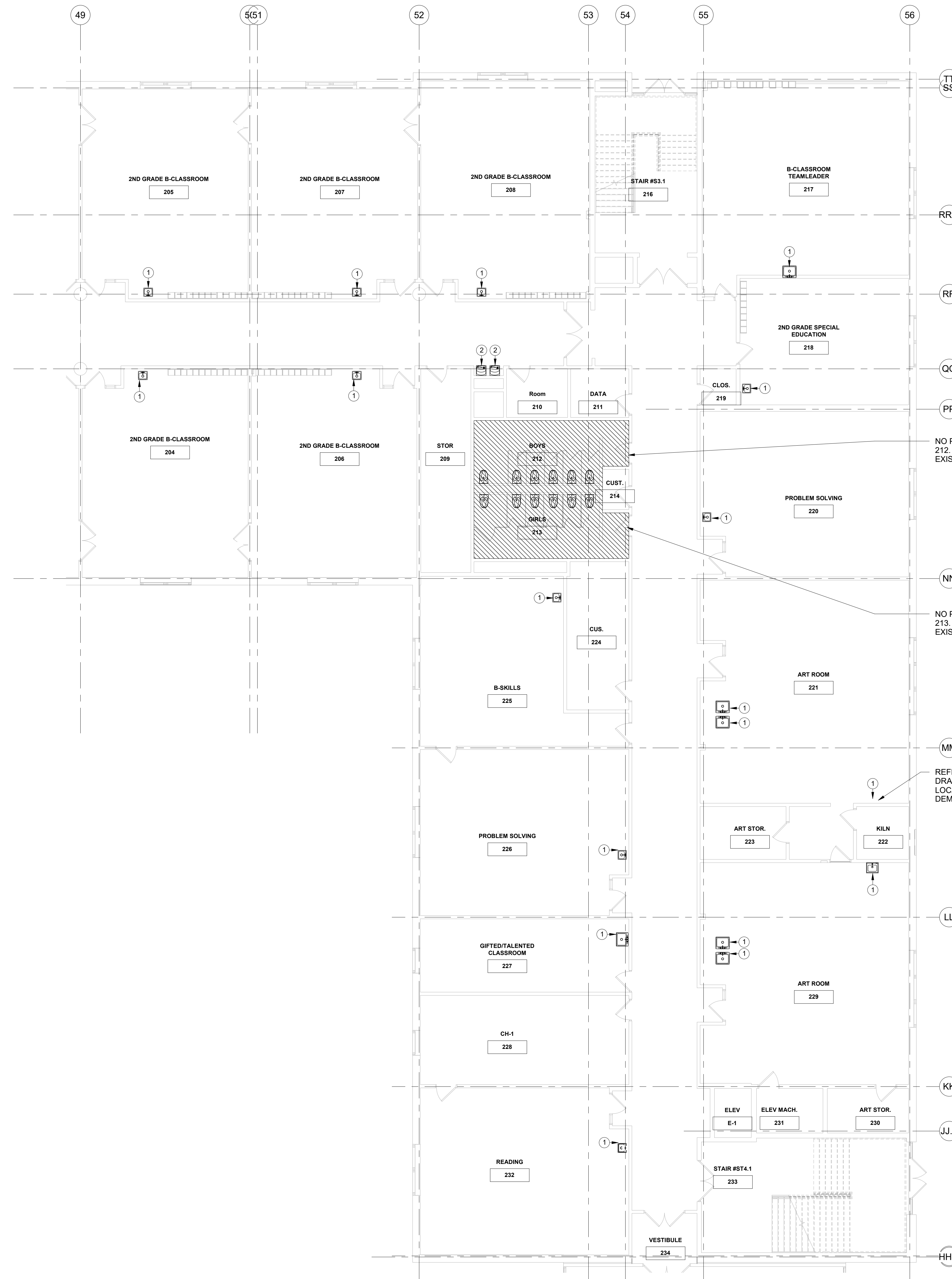
1 PLUMBING 1ST FLOOR PART 'B' DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

No.	Date	Issue
3	8/6/2019	ISSUED FOR BID
2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING

PLUMBING 1ST FLOOR PART 'B'
DEMOLITION PLAN

Job No. NKGD0206.00 Date 08/06/2019
Scale AS NOTED Drawn / Checked Author Checker
Sheet Number

P102



NO PLUMBING WORK IN BOYS 212. ALL PLUMBING FIXTURES EXISTING TO REMAIN.

NO PLUMBING WORK IN GIRLS 213. ALL PLUMBING FIXTURES EXISTING TO REMAIN.

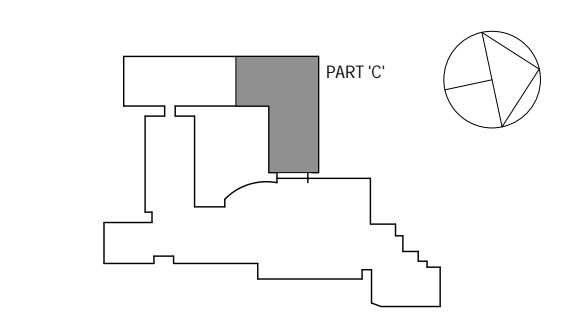
REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF SINK TO BE DEMOLISHED

1 PLUMBING 1ST FLOOR PART 'C' DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
NORTH

PLUMBING DEMOLITION NOTES

- 1 DEMOLISH CLASSROOM SINK, FAUCET & BUBBLER (IF APPLICABLE), INCLUDING ASSOCIATED COLD/HOT WATER, WASTE, & VENT PIPING; SUFFICIENT FOR REUSE DURING NEW WORK PHASE.
- 2 DEMOLISH WATERCOOLER COMPLETE INCLUDING ASSOCIATED COLD WATER, WASTE, & VENT PIPING; SUFFICIENT FOR REUSE DURING NEW WORK PHASE. DEMOLISH PVC DRAINAGE PIPING ASSOCIATED WITH DRINKING FOUNTAIN.
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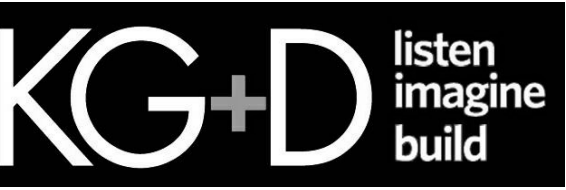
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PLUMBING 1ST FLOOR PART 'C' DEMOLITION PLAN

Job No. NKGD0206.00 Date 08/06/2019
Scale AS NOTED Drawn / Checked Author Checker

Sheet Number **P103**

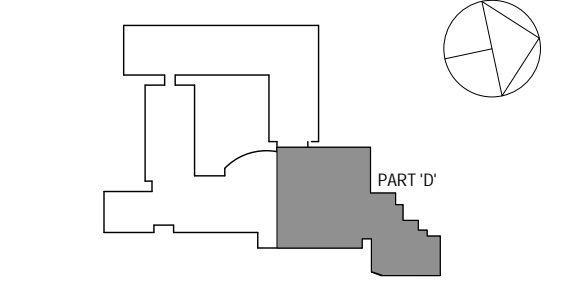


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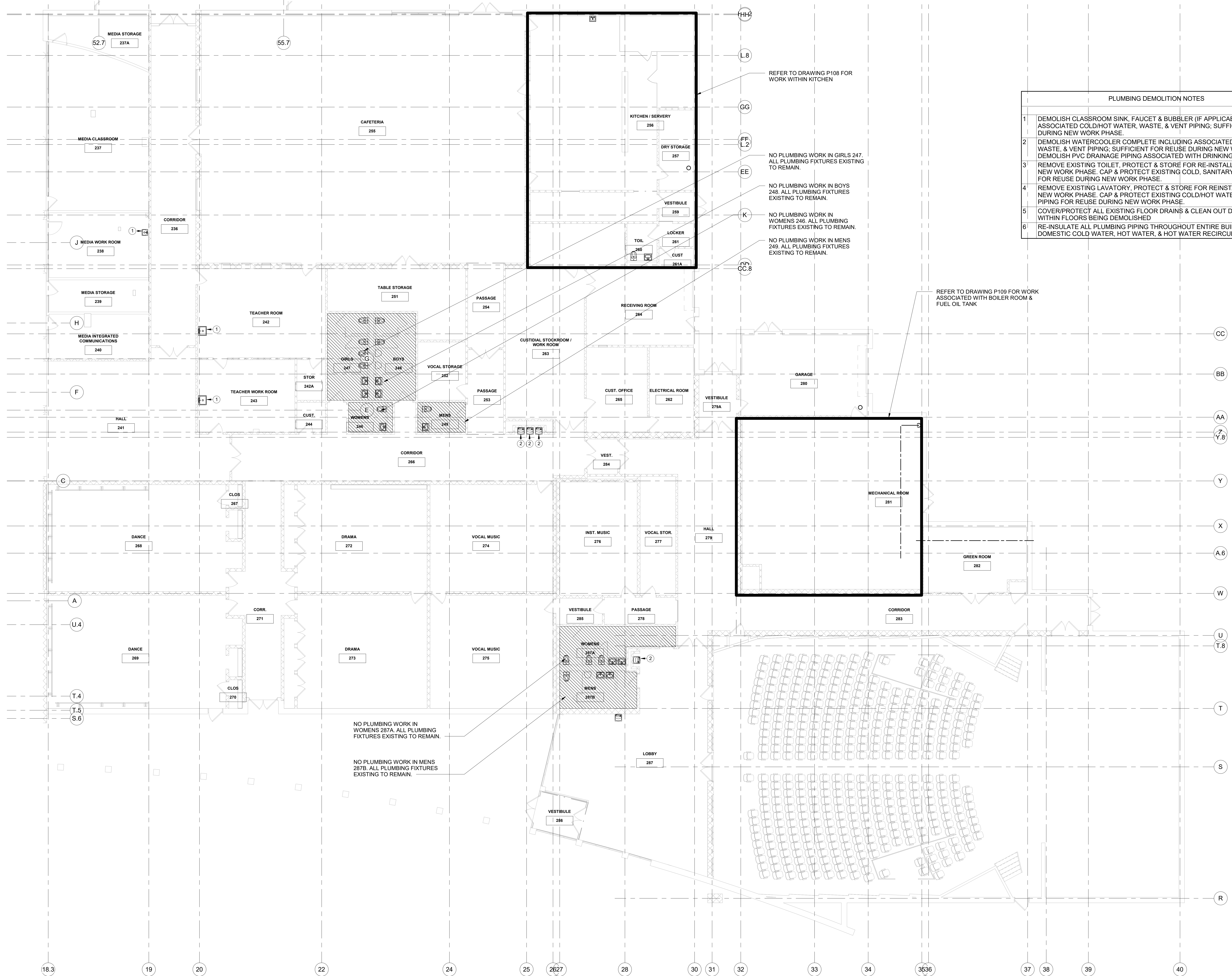
Professional Seal

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2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING
No.	Date	Issue

PLUMBING 1ST FLOOR PART 'D' DEMOLITION PLAN

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author Checker
Sheet Number	P104		

PLUMBING DEMOLITION NOTES	
1	DEMOLISH CLASSROOM SINK, FAUCET & BUBBLER (IF APPLICABLE), INCLUDING ASSOCIATED COLD/HOT WATER, WASTE, & VENT PIPING, SUFFICIENT FOR REUSE DURING NEW WORK PHASE.
2	DEMOLISH WATERCOOLER COMPLETE INCLUDING ASSOCIATED COLD WATER, WASTE, & VENT PIPING, SUFFICIENT FOR REUSE DURING NEW WORK PHASE. DEMOLISH PVC DRAINAGE PIPING ASSOCIATED WITH DRINKING FOUNTAIN.
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5	COVER/PROTECT ALL EXISTING FLOOR DRAINS & CLEAN OUT DECK PLATES WITHIN FLOORS BEING DEMOLISHED
6	RE-INSULATE ALL PLUMBING PIPING THROUGHOUT ENTIRE BUILDING INCLUDING DOMESTIC COLD WATER, HOT WATER, & HOT WATER RECIRCULATION LINES



REFER TO DRAWING P108 FOR WORK WITHIN KITCHEN

NO PLUMBING WORK IN GIRLS 247. ALL PLUMBING FIXTURES EXISTING TO REMAIN.

NO PLUMBING WORK IN BOYS 248. ALL PLUMBING FIXTURES EXISTING TO REMAIN.

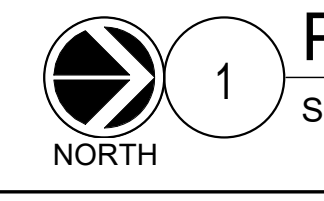
NO PLUMBING WORK IN WOMENS 246. ALL PLUMBING FIXTURES EXISTING TO REMAIN.

NO PLUMBING WORK IN MENS 249. ALL PLUMBING FIXTURES EXISTING TO REMAIN.

REFER TO DRAWING P109 FOR WORK ASSOCIATED WITH BOILER ROOM & FUEL OIL TANK

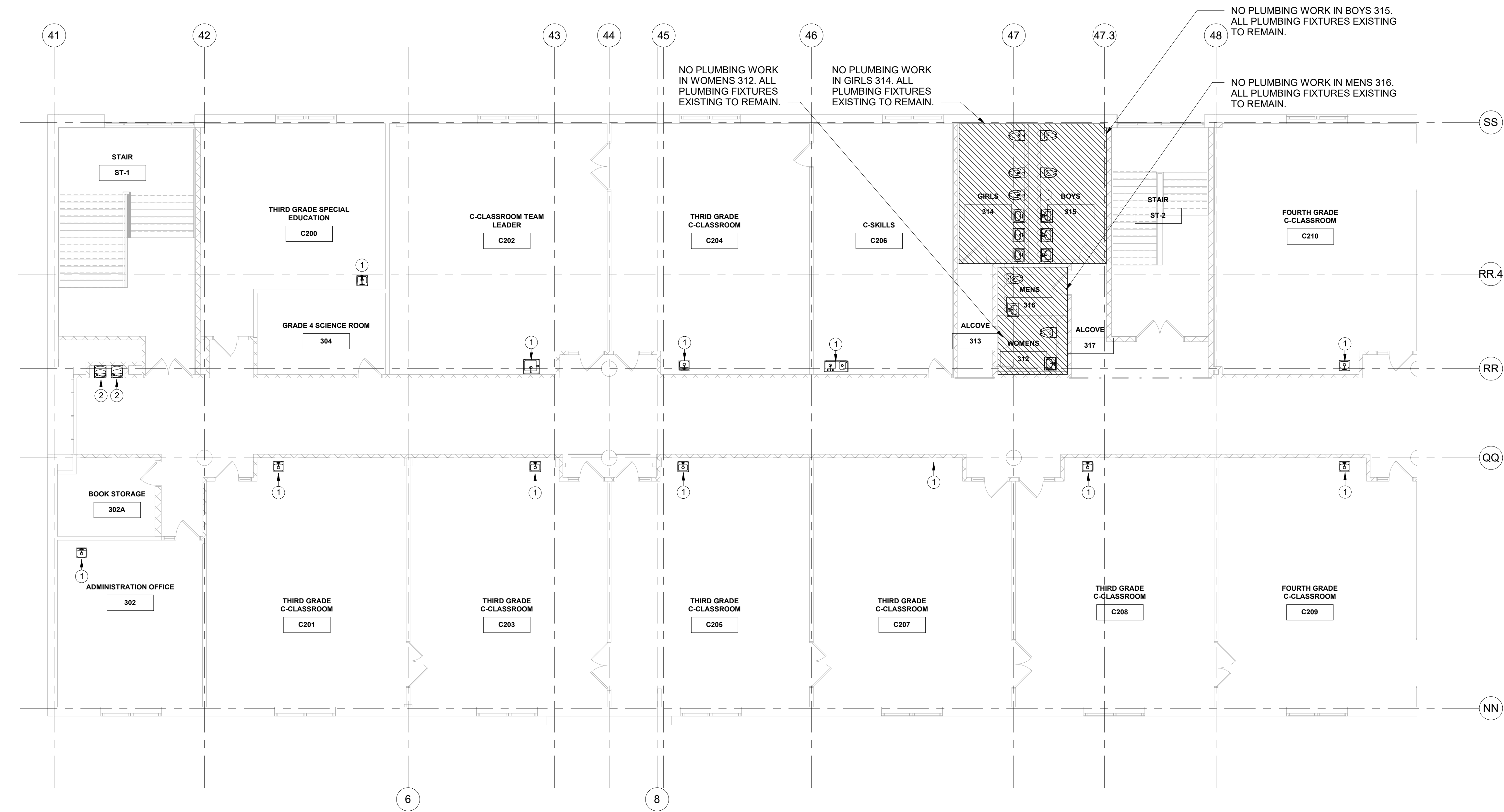
NO PLUMBING WORK IN WOMENS 287A. ALL PLUMBING FIXTURES EXISTING TO REMAIN.

NO PLUMBING WORK IN MENS 287B. ALL PLUMBING FIXTURES EXISTING TO REMAIN.



1 PLUMBING 1ST FLOOR PART 'D' DEMOLITION PLAN

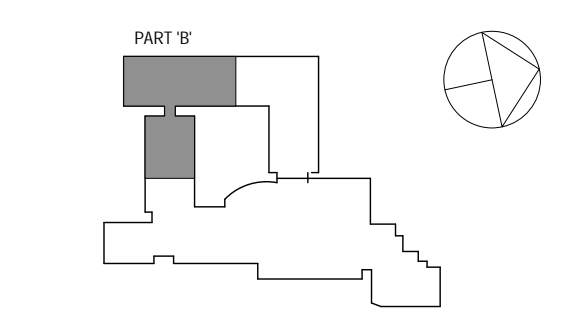
SCALE: 1/8" = 1'-0"



1 PLUMBING 2ND FLOOR PART 'B' DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
NORTH

PLUMBING DEMOLITION NOTES	
1	DEMOLISH CLASSROOM SINK, FAUCET & BUBBLER (IF APPLICABLE), INCLUDING ASSOCIATED COLD/HOT WATER, WASTE, & VENT PIPING; SUFFICIENT FOR REUSE DURING NEW WORK PHASE.
2	DEMOLISH WATERCOOLER COMPLETE INCLUDING ASSOCIATED COLD WATER, WASTE, & VENT PIPING; SUFFICIENT FOR REUSE DURING NEW WORK PHASE. DEMOLISH PVC DRAINAGE PIPING ASSOCIATED WITH DRINKING FOUNTAIN.
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SPN 135-0278RR



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1	5/15/2019	ISSUED FOR PRICING
No.	Date	Issue

Sheet Title
PLUMBING 2ND FLOOR PART 'B' DEMOLITION PLAN

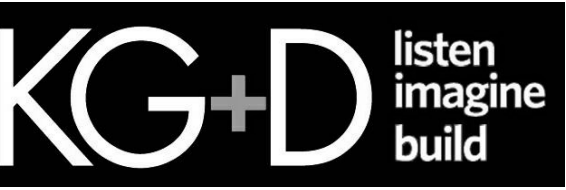
Job No.	NKGD0206.00	Date	08/06/2019
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Sheet Number
P105

Westover Magnet Elementary School

City of Stamford - Stamford Public Schools
412 Stillwater Ave, Stamford, CT. 06902

PROJECT # S-6722

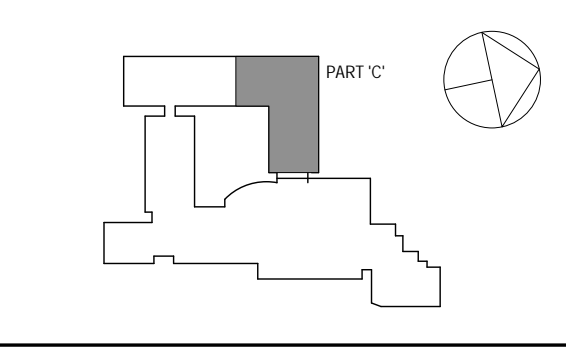


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SPN 135-0278RR

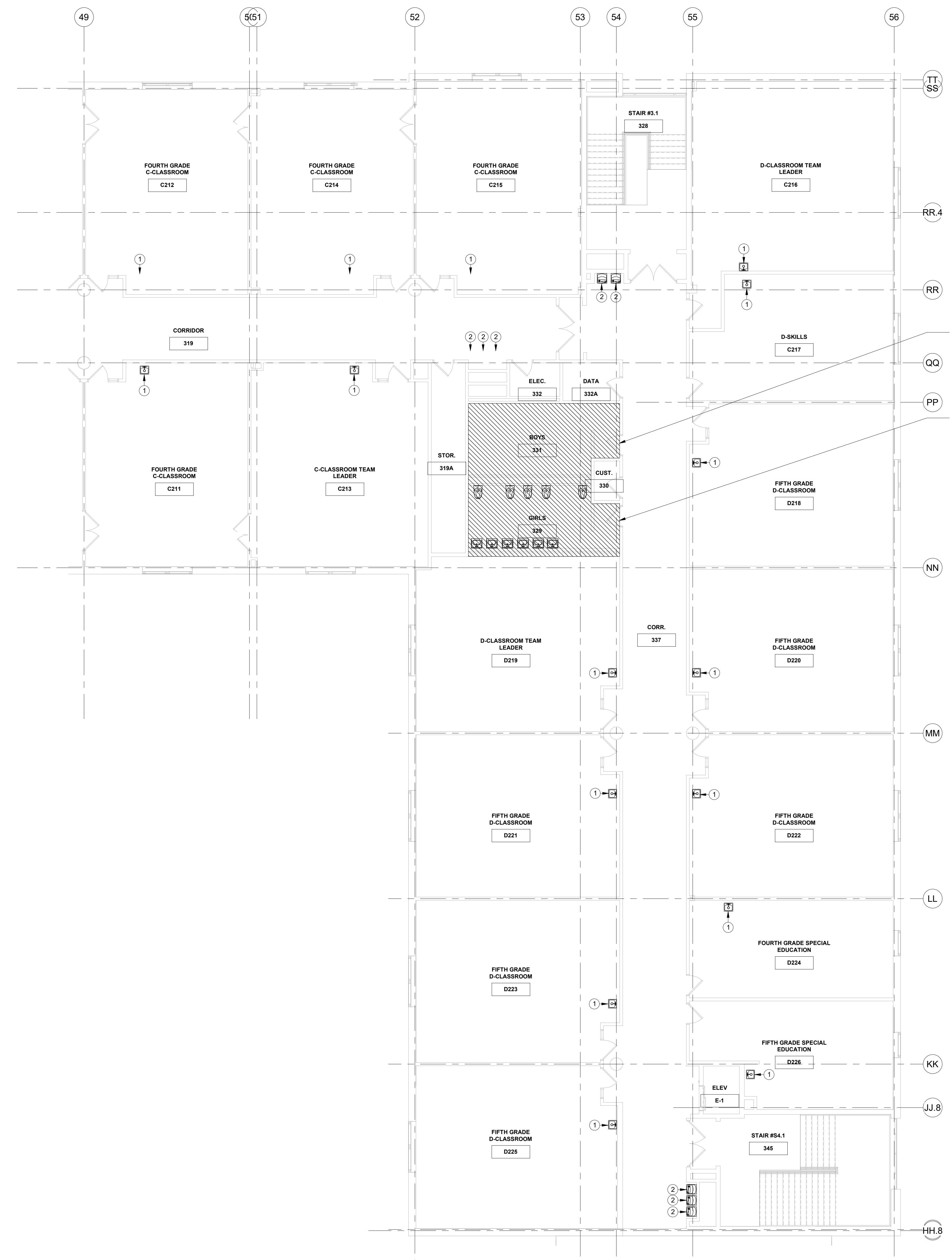


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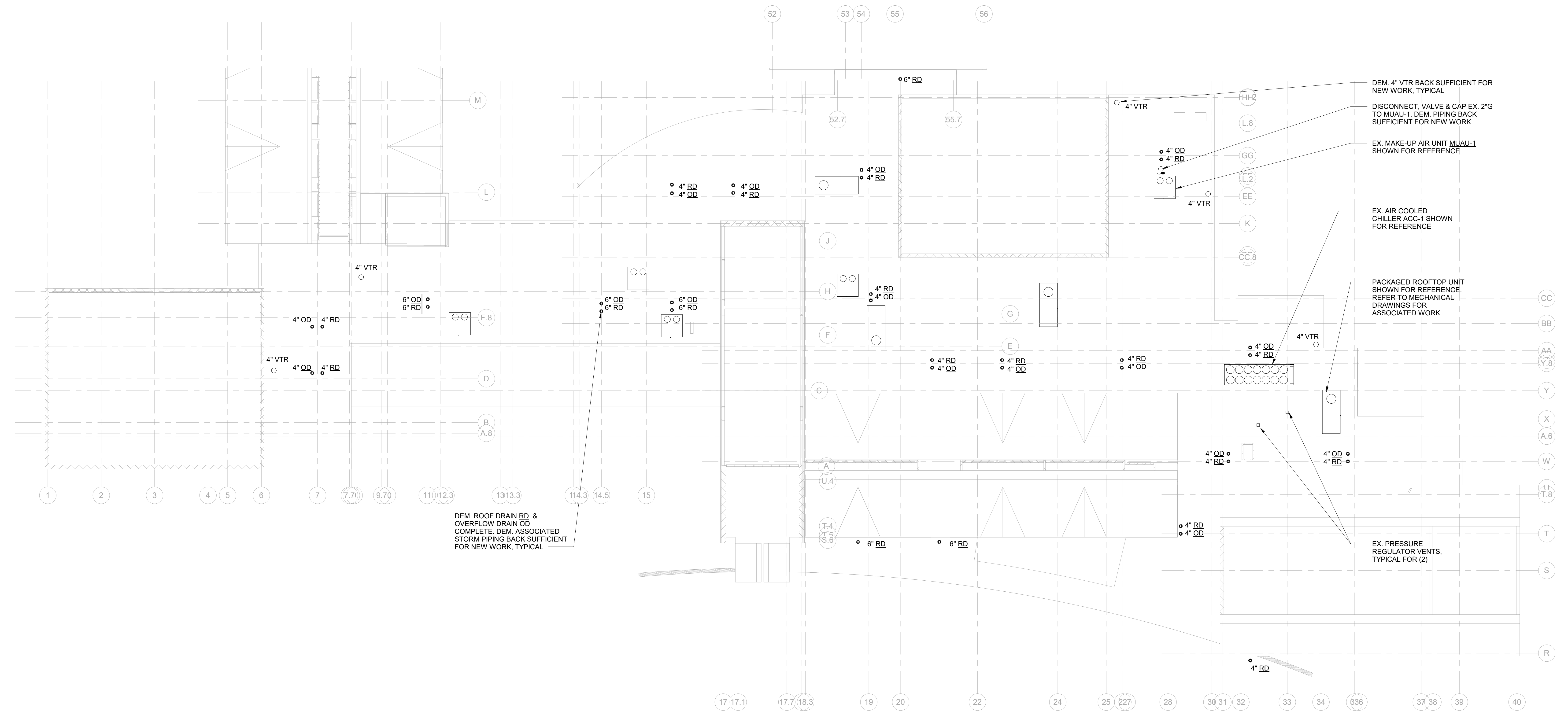
NO PLUMBING WORK IN BOYS 331. ALL PLUMBING FIXTURES EXISTING TO REMAIN.

NO PLUMBING WORK IN GIRLS 329. ALL PLUMBING FIXTURES EXISTING TO REMAIN.

PLUMBING DEMOLITION NOTES	
1	DEMOLISH CLASSROOM SINK, FAUCET & BUBBLER (IF APPLICABLE), INCLUDING ASSOCIATED COLD/HOT WATER, WASTE, & VENT PIPING; SUFFICIENT FOR REUSE DURING NEW WORK PHASE.
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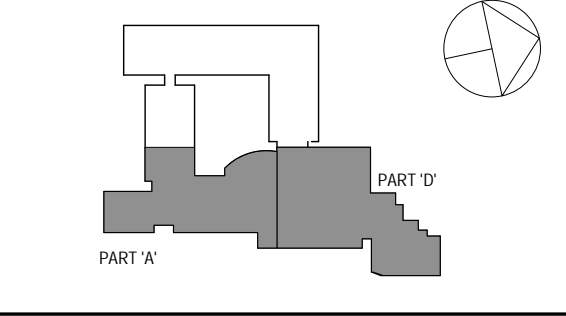
PLUMBING 2ND FLOOR PART 'C' DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author / Checker
Sheet Number	P106		



1 PLUMBING ROOF DEMOLITION PLAN
SCALE: 1/16" = 1'-0"
NORTH

SPN 135-0278RR



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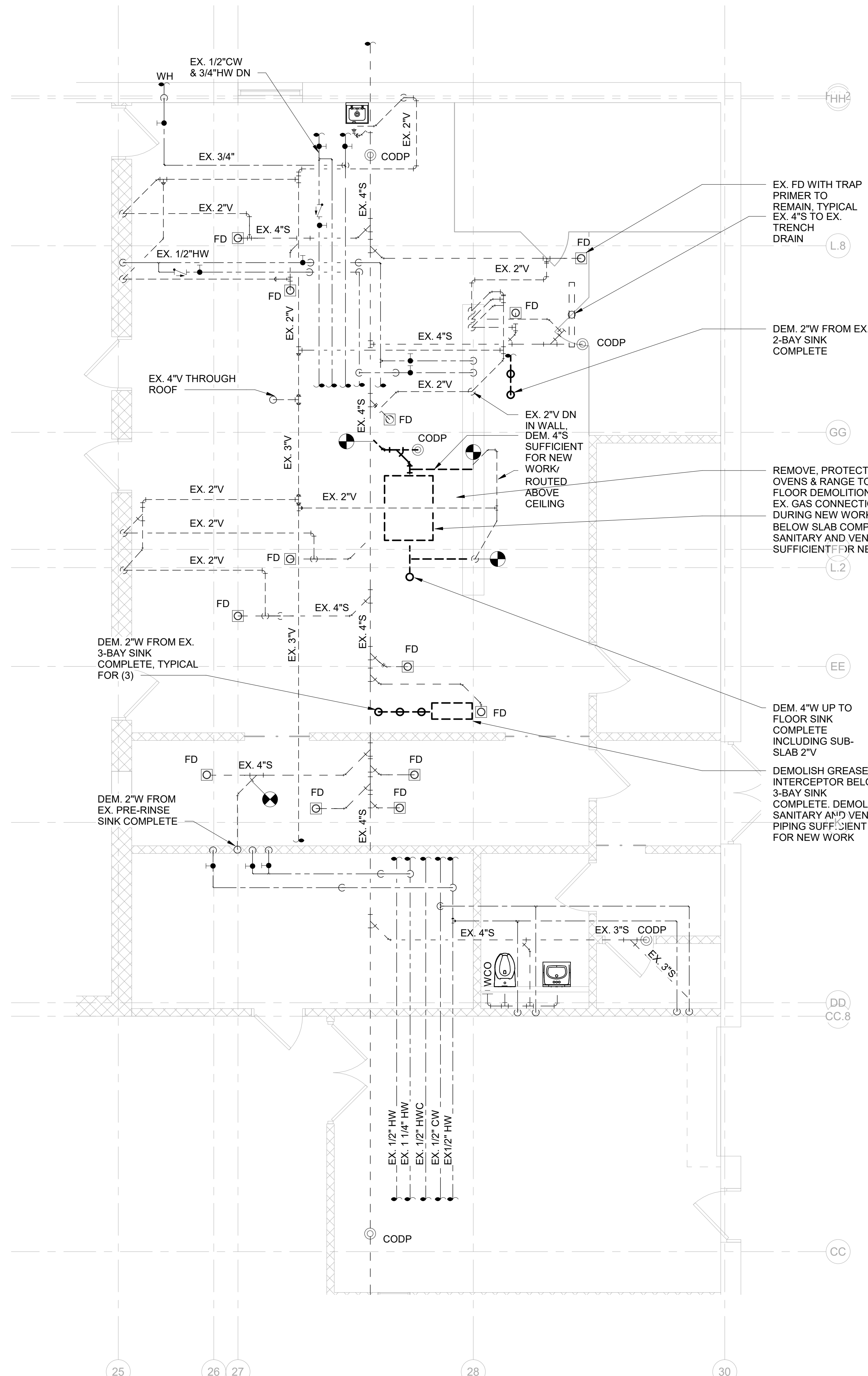
No.	Date	Issue
3	8/6/2019	ISSUED FOR BID
2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING

Sheet Title
PLUMBING ROOF DEMOLITION PLAN

Job No.	Date
NKGD0206.00	08/06/2019

Scale	Drawn / Checked
AS NOTED	Author / Checker

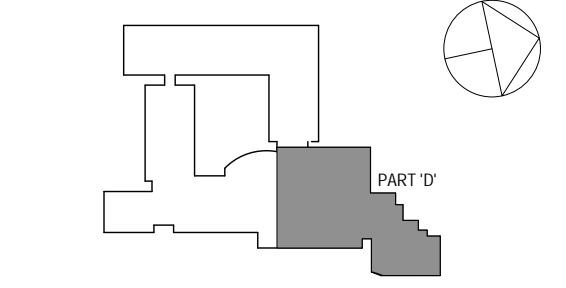
Sheet Number
P107



1 PLUMBING KITCHEN DEMOLITION PART PLAN
SCALE: 1/4" = 1'-0"
NORTH

PLUMBING DEMOLITION NOTES	
1	DEMOLISH CLASSROOM SINK, FAUCET & BUBBLER (IF APPLICABLE), INCLUDING ASSOCIATED COLD/HOT WATER, WASTE, & VENT PIPING; SUFFICIENT FOR REUSE DURING NEW WORK PHASE.
2	DEMOLISH WATERCOOLER COMPLETE INCLUDING ASSOCIATED COLD WATER, WASTE, & VENT PIPING; SUFFICIENT FOR REUSE DURING NEW WORK PHASE. DEMOLISH PVC DRAINAGE PIPING ASSOCIATED WITH DRINKING FOUNTAIN.
3	REMOVE EXISTING TOILET, PROTECT & STORE FOR RE-INSTALLATION DURING NEW WORK PHASE. CAP & PROTECT EXISTING COLD, SANITARY, & VENT PIPING FOR REUSE DURING NEW WORK PHASE.
4	REMOVE EXISTING LAVATORY, PROTECT & STORE FOR RE-INSTALLATION DURING NEW WORK PHASE. CAP & PROTECT EXISTING COLD/HOT WATER, WASTE, & VENT PIPING FOR REUSE DURING NEW WORK PHASE.
5	COVER/PROTECT ALL EXISTING FLOOR DRAINS & CLEAN OUT DECK PLATES WITHIN FLOORS BEING DEMOLISHED
6	RE-INSULATE ALL PLUMBING PIPING THROUGHOUT ENTIRE BUILDING INCLUDING DOMESTIC COLD WATER, HOT WATER, & HOT WATER RECIRCULATION LINES

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1	5/15/2019	ISSUED FOR PRICING

PLUMBING KITCHEN DEMOLITION PART PLAN

Job No.	Date
NKGD0206.00	08/06/2019

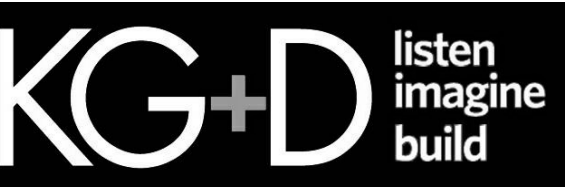
Scale	Drawn / Checked
AS NOTED	Author / Checker

Sheet Number
P108

Westover Magnet Elementary School

City of Stamford - Stamford Public Schools
412 Stillwater Ave, Stamford, CT. 06902

PROJECT # S-6722

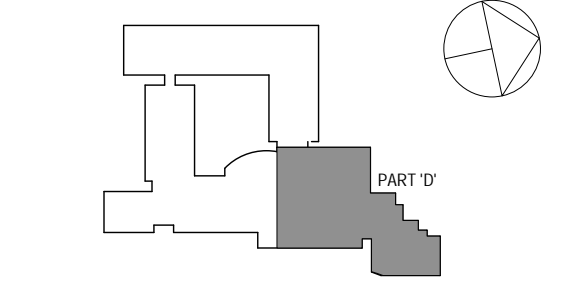


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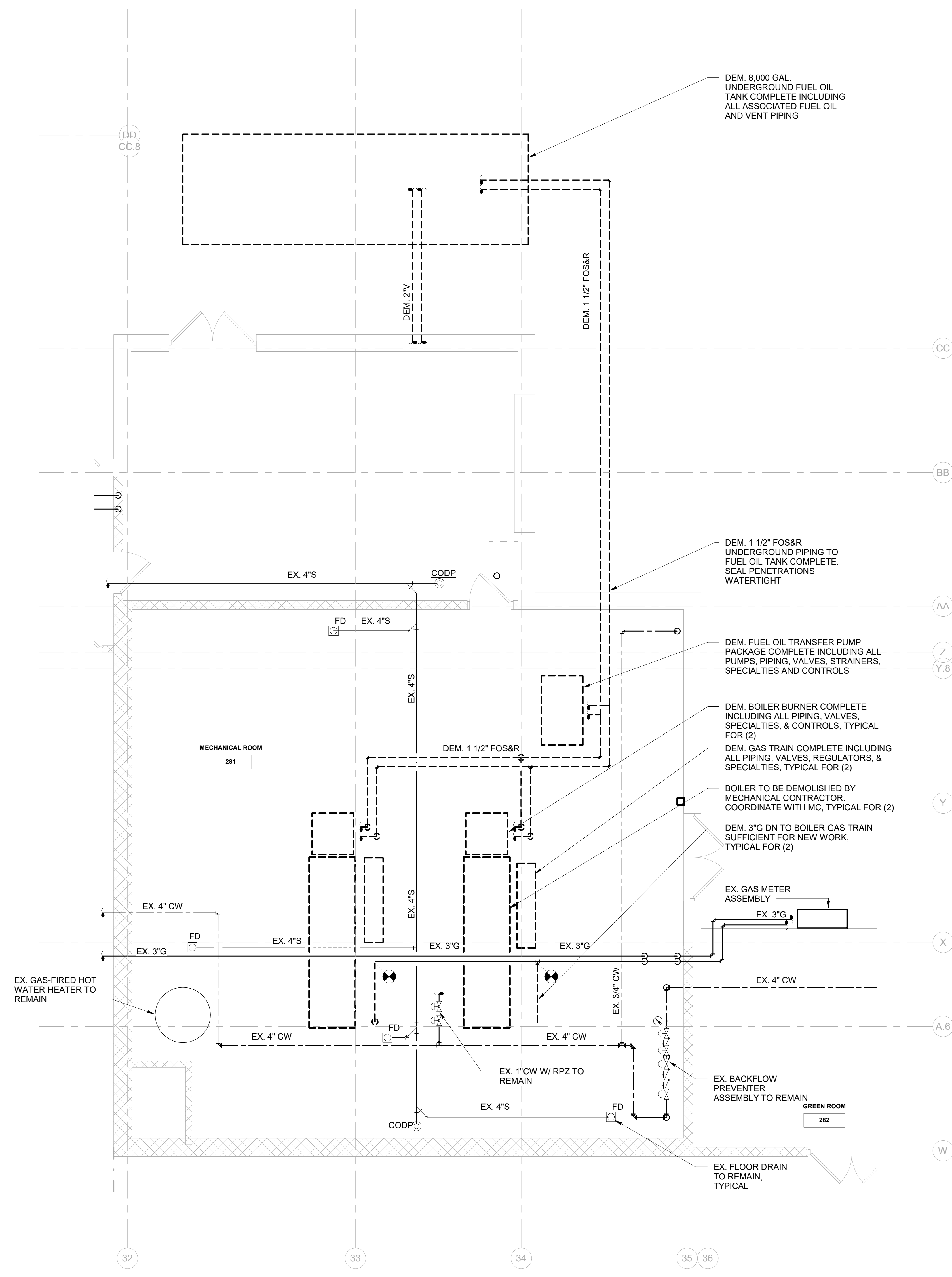
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3	8/6/2019	ISSUED FOR BID
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1	5/15/2019	ISSUED FOR PRICING
No.	Date	Issue

PLUMBING BOILER ROOM DEMOLITION PLAN - ALTERNATE A

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author / Checker

Sheet Number
P109



1 PLUMBING BOILER ROOM DEMOLITION PLAN - ALTERNATE A
SCALE: 1/4" = 1'-0"

BASE BID:
NO PLUMBING WORK IN BOILER ROOM OR ASSOCIATED WITH THE FUEL OIL TANKS. ALL EQUIPMENT & PIPING ON THIS PLAN EXISTING TO REMAIN.

Westover Magnet Elementary School

City of Stamford - Stamford Public Schools

412 Stillwater Ave, Stamford, CT. 06902

PROJECT # S-6722

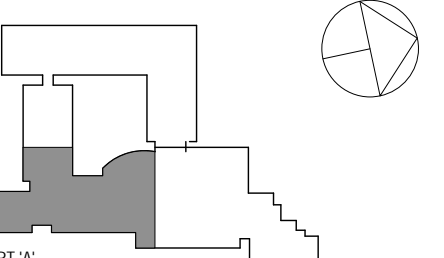


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OIA Consulting Engineers
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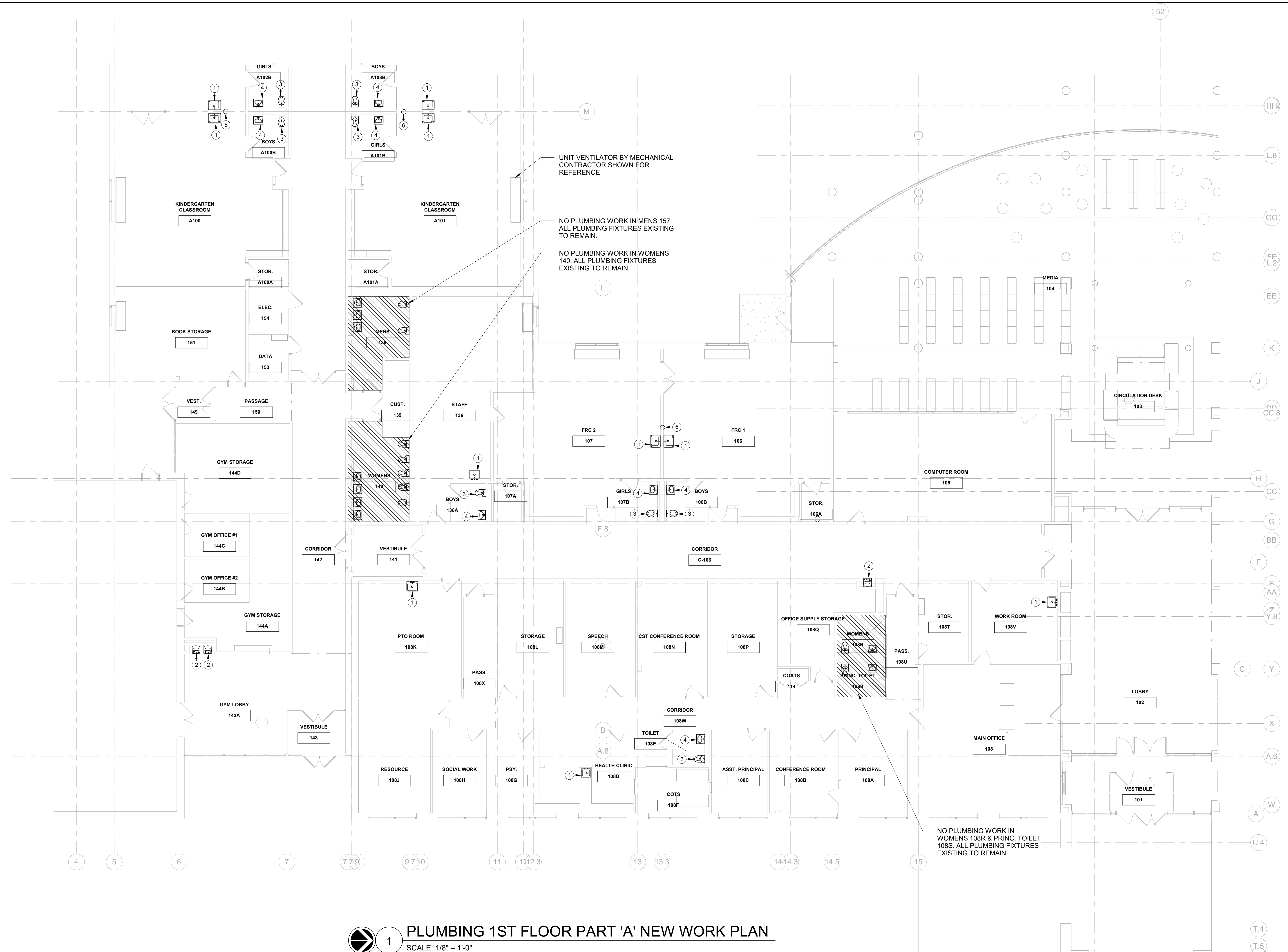
Professional Seal

PLUMBING NEW WORK NOTES

1	PROVIDE NEW CLASSROOM SINK P-1 INCLUDING FAUCET & BUBBLER (IF APPLICABLE) IN LOCATION OF PREVIOUSLY DEMOLISHED FIXTURE. EXTEND COLD/HOT WATER, WASTE, AND VENT PIPING FROM EX. ROUGHING TO THE NEW CLASSROOM SINK. PROVIDE NEW COLD & HOT WATER SHUT-OFF VALVES. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL QUANTITY, LOCATIONS, AND FIXTURE SPECIFICATIONS.
2	PROVIDE NEW WATER COOLER P-2 IN LOCATION OF PREVIOUSLY DEMOLISHED EQUIPMENT. EXTEND COLD WATER, WASTE, AND VENT PIPING FROM EX. ROUGHING TO THE NEW WATER COOLER. PROVIDE NEW COLD WATER SHUT-OFF VALVE. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL QUANTITY, LOCATIONS, & EQUIPMENT SPECIFICATIONS.
3	RE-INSTALL EXISTING TOILET. EXTEND COLD WATER, WASTE AND VENT PIPING FROM EX. ROUGHING TO TOILET AS REQUIRED.
4	RE-INSTALL EXISTING LAVATORY. EXTEND COLD/HOT WATER, WASTE & VENT PIPING FROM EX. ROUGHING TO LAVATORY.
5	COVER/PROTECT ALL EXISTING FLOOR DRAINS & CLEAN OUT DECK PLATES WITHIN FLOORS BEING DEMOLISHED.
6	PROVIDE NEW FUNNEL DRAIN ABOVE CEILING. PROVIDE NEW 1 1/4" CONDENSATE DRAIN DN FROM FUNNEL DRAIN WITHIN EXISTING STUD WALL OR SURFACE MOUNTED ON CMU WALL AND CONNECT TO TAILPIECE OF TRAP BELOW SINK. REFER ARCHITECTURAL DRAWINGS FOR CHASE LOCATIONS. REFER TO PLUMBING DETAILS.
7	RE-INSULATE ALL PLUMBING PIPING THROUGHOUT ENTIRE BUILDING INCLUDING DOMESTIC COLD WATER, HOT WATER, & HOT WATER RECIRCULATION LINES.

PLUMBING 1ST FLOOR PART 'A' NEW WORK PLAN

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author / Checker
Sheet Number	P201		



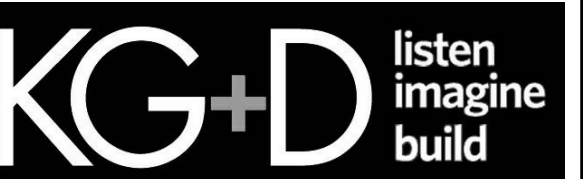
1 PLUMBING 1ST FLOOR PART 'A' NEW WORK PLAN
SCALE: 1/8" = 1'-0"
NORTH

Westover Magnet Elementary School

City of Stamford - Stamford Public Schools

412 Stillwater Ave, Stamford, CT. 06902

PROJECT # S-6722

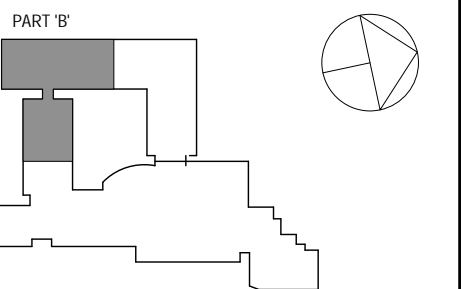


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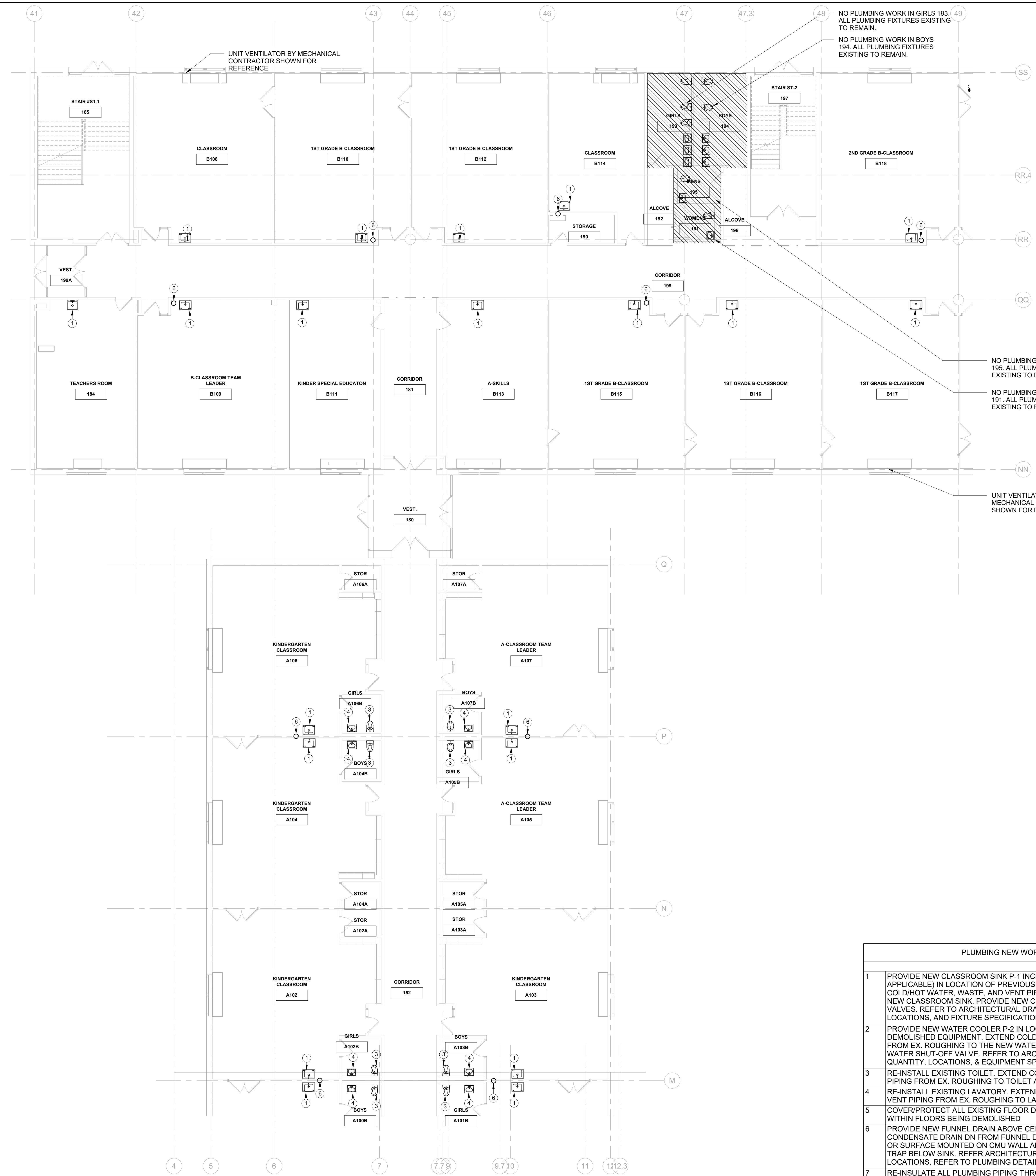
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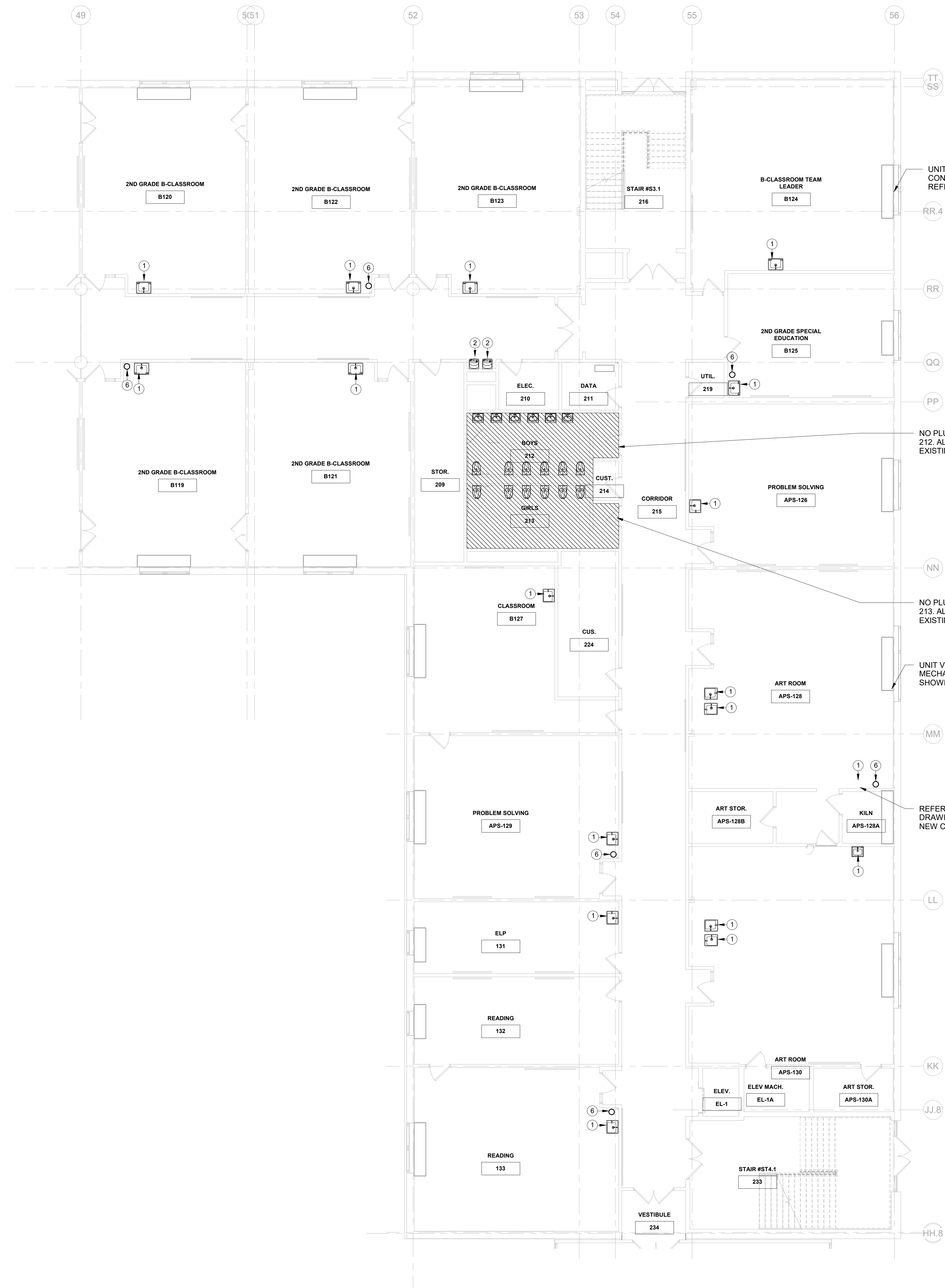
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PLUMBING NEW WORK NOTES		
1	PROVIDE NEW CLASSROOM SINK P-1 INCLUDING FAUCET & BUBBLER (IF APPLICABLE) IN LOCATION OF PREVIOUSLY DEMOLISHED FIXTURE. EXTEND COLD/HOT WATER, WASTE, AND VENT PIPING FROM EX. ROUGHING TO THE NEW CLASSROOM SINK. PROVIDE NEW COLD & HOT WATER SHUT-OFF VALVES. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL QUANTITY, LOCATIONS, AND FIXTURE SPECIFICATIONS.	
2	PROVIDE NEW WATER COOLER P-2 IN LOCATION OF PREVIOUSLY DEMOLISHED EQUIPMENT. EXTEND COLD WATER, WASTE, AND VENT PIPING FROM EX. ROUGHING TO THE NEW WATER COOLER. PROVIDE NEW COLD WATER SHUT-OFF VALVE. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL QUANTITY, LOCATIONS, & EQUIPMENT SPECIFICATIONS.	
3	RE-INSTALL EXISTING TOILET. EXTEND COLD WATER, WASTE AND VENT PIPING FROM EX. ROUGHING TO TOILET AS REQUIRED.	
4	RE-INSTALL EXISTING LAVATORY. EXTEND COLD/HOT WATER, WASTE & VENT PIPING FROM EX. ROUGHING TO LAVATORY.	
5	COVER/PROTECT ALL EXISTING FLOOR DRAINS & CLEAN OUT DECK PLATES WITHIN FLOORS BEING DEMOLISHED	
6	PROVIDE NEW FUNNEL DRAIN ABOVE CEILING. PROVIDE NEW 1 1/4" CONDENSATE DRAIN DN FROM FUNNEL DRAIN WITHIN EXISTING STUD WALL OR SURFACE MOUNTED ON CMU WALL AND CONNECT TO TAILPIECE OF TRAP BELOW SINK. REFER ARCHITECTURAL DRAWINGS FOR CHASE LOCATIONS. REFER TO PLUMBING DETAILS.	
7	RE-INSULATE ALL PLUMBING PIPING THROUGHOUT ENTIRE BUILDING INCLUDING DOMESTIC COLD WATER, HOT WATER, & HOT WATER RECIRCULATION LINES	



1 PLUMBING 1ST FLOOR PART 'B' NEW WORK PLAN
SCALE: 1/8" = 1'-0"
NORTH



NO PLUMBING WORK IN BOYS 212. ALL PLUMBING FIXTURES EXISTING TO REMAIN.

NO PLUMBING WORK IN GIRLS 213. ALL PLUMBING FIXTURES EXISTING TO REMAIN.

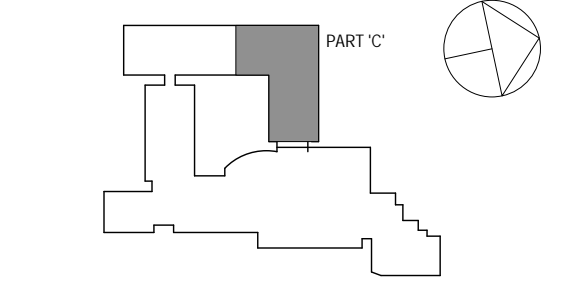
REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION OF NEW CLASSROOM SINK

1 PLUMBING 1ST FLOOR PART 'C' NEW WORK PLAN
SCALE: 1/8" = 1'-0"
NORTH

PLUMBING NEW WORK NOTES

- PROVIDE NEW CLASSROOM SINK P-1 INCLUDING FAUCET & BUBBLER (IF APPLICABLE) IN LOCATION OF PREVIOUSLY DEMOLISHED FIXTURE. EXTEND COLD/HOT WATER, WASTE, AND VENT PIPING FROM EX. ROUGHING TO THE NEW CLASSROOM SINK. PROVIDE NEW COLD & HOT WATER SHUT-OFF VALVES. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL QUANTITY, LOCATIONS, AND FIXTURE SPECIFICATIONS.
- PROVIDE NEW WATER COOLER P-2 IN LOCATION OF PREVIOUSLY DEMOLISHED EQUIPMENT. EXTEND COLD WATER, WASTE, AND VENT PIPING FROM EX. ROUGHING TO THE NEW WATER COOLER. PROVIDE NEW COLD & HOT WATER SHUT-OFF VALVE. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL QUANTITY, LOCATIONS, & EQUIPMENT SPECIFICATIONS.
- RE-INSTALL EXISTING TOILET. EXTEND COLD WATER, WASTE AND VENT PIPING FROM EX. ROUGHING TO TOILET AS REQUIRED.
- RE-INSTALL EXISTING LAVATORY. EXTEND COLD/HOT WATER, WASTE & VENT PIPING FROM EX. ROUGHING TO LAVATORY.
- COVER/PROTECT ALL EXISTING FLOOR DRAINS & CLEAN OUT DECK PLATES WITHIN FLOORS BEING DEMOLISHED
- PROVIDE NEW FUNNEL DRAIN ABOVE CEILING. PROVIDE NEW 1 1/4" CONDENSATE DRAIN DN FROM FUNNEL DRAIN WITHIN EXISTING STUD WALL OR SURFACE MOUNTED ON CMU WALL AND CONNECT TO TAILPIECE OF TRAP BELOW SINK. REFER ARCHITECTURAL DRAWINGS FOR CHASE LOCATIONS. REFER TO PLUMBING DETAILS.
- RE-INSULATE ALL PLUMBING PIPING THROUGHOUT ENTIRE BUILDING INCLUDING DOMESTIC COLD WATER, HOT WATER, & HOT WATER RECIRCULATION LINES

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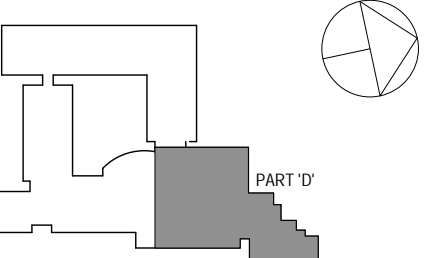
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No.	Date	Issue
1	5/15/2019	ISSUED FOR PRICING
2	6/5/2019	CLIENT REVIEW SET
3	8/6/2019	ISSUED FOR BID

PLUMBING 1ST FLOOR PART 'C' NEW WORK PLAN

Job No.	NKGD0206.00	Date	08/06/2019
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P203



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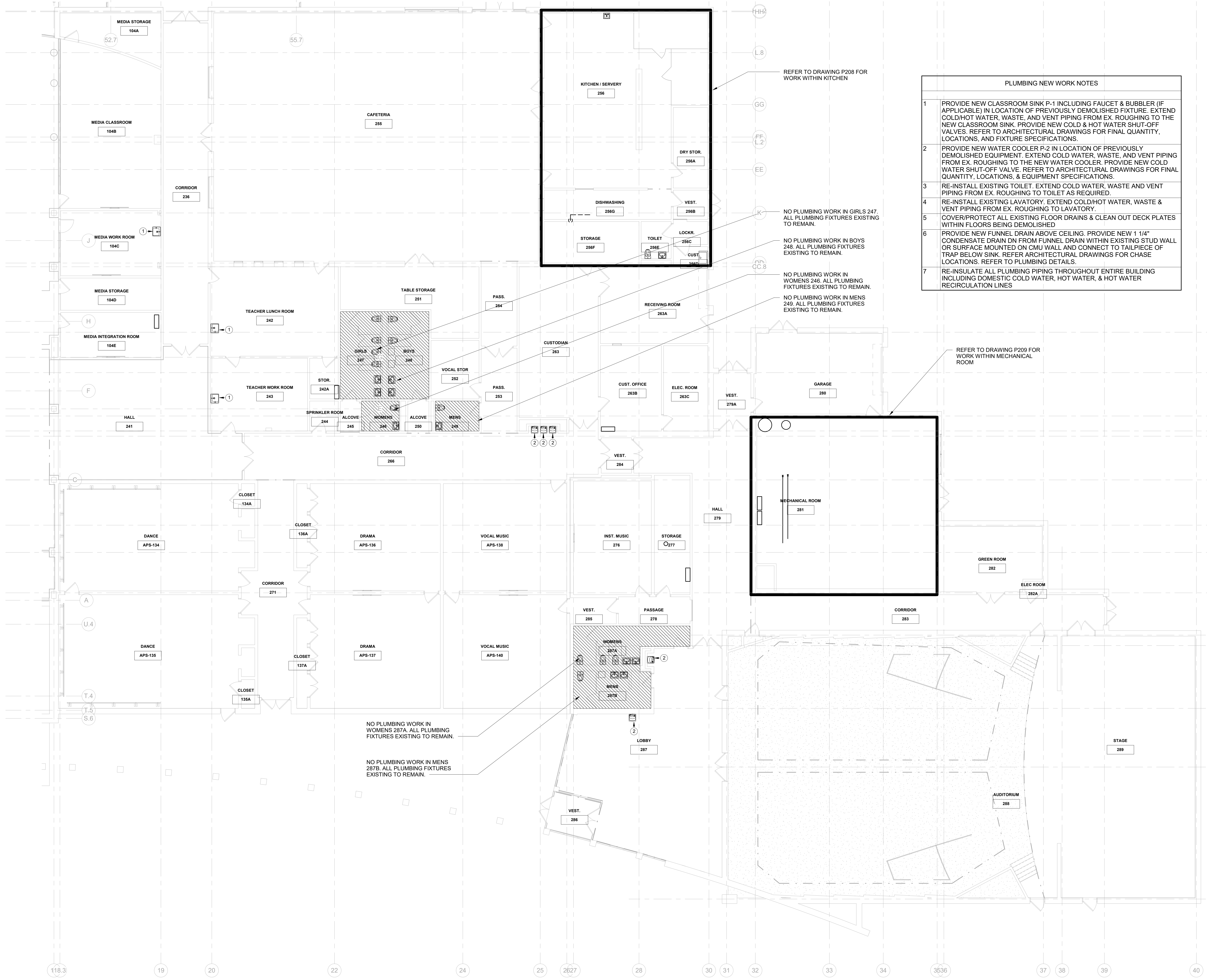
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3	8/6/2019	ISSUED FOR BID
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1	5/15/2019	ISSUED FOR PRICING
No.	Date	Issue

PLUMBING 1ST FLOOR PART 'D'
NEW WORK PLAN

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author / Checker
Sheet Number	P204		

PLUMBING NEW WORK NOTES	
1	PROVIDE NEW CLASSROOM SINK P-1 INCLUDING FAUCET & BUBBLER (IF APPLICABLE) IN LOCATION OF PREVIOUSLY DEMOLISHED FIXTURE. EXTEND COLD/HOT WATER, WASTE, AND VENT PIPING FROM EX. ROUGHING TO THE NEW CLASSROOM SINK. PROVIDE NEW COLD & HOT WATER SHUT-OFF VALVES. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL QUANTITY, LOCATIONS, AND FIXTURE SPECIFICATIONS.
2	PROVIDE NEW WATER COOLER P-2 IN LOCATION OF PREVIOUSLY DEMOLISHED EQUIPMENT. EXTEND COLD WATER, WASTE, AND VENT PIPING FROM EX. ROUGHING TO THE NEW WATER COOLER. PROVIDE NEW COLD WATER SHUT-OFF VALVE. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL QUANTITY, LOCATIONS, & EQUIPMENT SPECIFICATIONS.
3	RE-INSTALL EXISTING TOILET. EXTEND COLD WATER, WASTE AND VENT PIPING FROM EX. ROUGHING TO TOILET AS REQUIRED.
4	RE-INSTALL EXISTING LAVATORY. EXTEND COLD/HOT WATER, WASTE & VENT PIPING FROM EX. ROUGHING TO LAVATORY.
5	COVER/PROTECT ALL EXISTING FLOOR DRAINS & CLEAN OUT DECK PLATES WITHIN FLOORS BEING DEMOLISHED
6	PROVIDE NEW FUNNEL DRAIN ABOVE CEILING. PROVIDE NEW 1 1/4" CONDENSATE DRAIN ON FROM FUNNEL DRAIN WITHIN EXISTING STUD WALL OR SURFACE MOUNTED ON CMU WALL AND CONNECT TO TAILPIECE OF TRAP BELOW SINK. REFER ARCHITECTURAL DRAWINGS FOR CHASE LOCATIONS. REFER TO PLUMBING DETAILS.
7	RE-INSULATE ALL PLUMBING PIPING THROUGHOUT ENTIRE BUILDING INCLUDING DOMESTIC COLD WATER, HOT WATER, & HOT WATER RECIRCULATION LINES



REFER TO DRAWING P208 FOR WORK WITHIN KITCHEN

NO PLUMBING WORK IN GIRLS 247. ALL PLUMBING FIXTURES EXISTING TO REMAIN.

NO PLUMBING WORK IN BOYS 248. ALL PLUMBING FIXTURES EXISTING TO REMAIN.

NO PLUMBING WORK IN WOMENS 246. ALL PLUMBING FIXTURES EXISTING TO REMAIN.

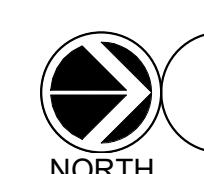
NO PLUMBING WORK IN MENS 249. ALL PLUMBING FIXTURES EXISTING TO REMAIN.

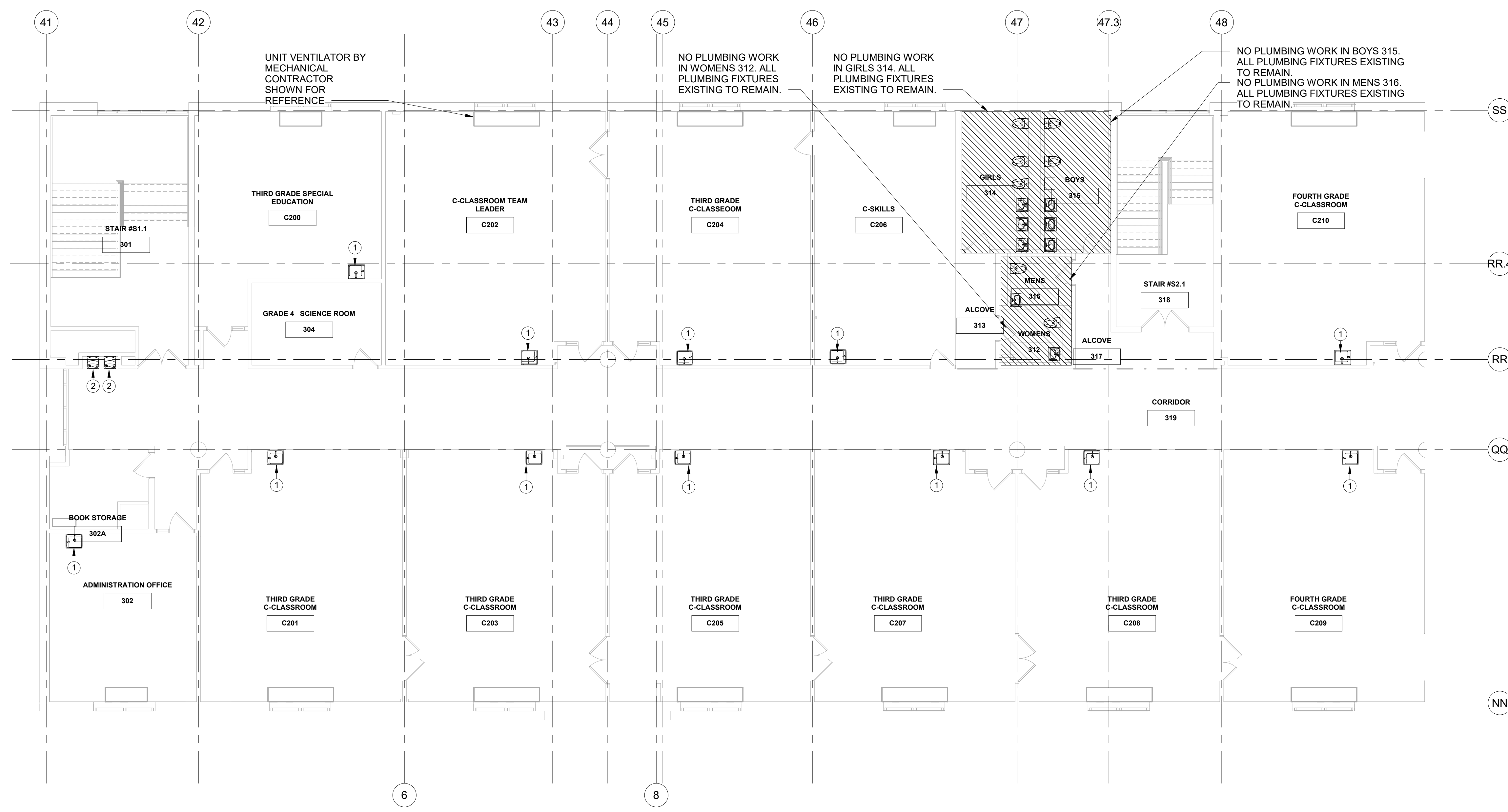
REFER TO DRAWING P209 FOR WORK WITHIN MECHANICAL ROOM

NO PLUMBING WORK IN WOMENS 287A. ALL PLUMBING FIXTURES EXISTING TO REMAIN.

NO PLUMBING WORK IN MENS 287B. ALL PLUMBING FIXTURES EXISTING TO REMAIN.

1 PLUMBING 1ST FLOOR PART 'D' NEW WORK PLAN
SCALE: 1/8" = 1'-0"

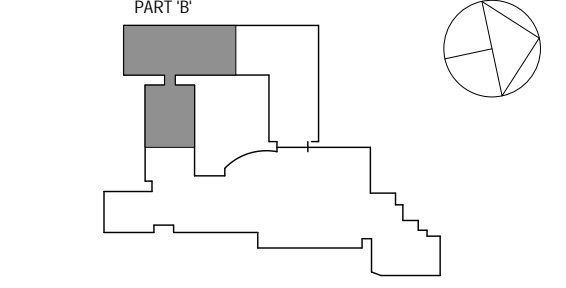




1 PLUMBING 2ND FLOOR PART 'B' NEW WORK PLAN
SCALE: 1/8" = 1'-0"

PLUMBING NEW WORK NOTES	
1	PROVIDE NEW CLASSROOM SINK P-1 INCLUDING FAUCET & BUBBLER (IF APPLICABLE) IN LOCATION OF PREVIOUSLY DEMOLISHED FIXTURE. EXTEND COLD/HOT WATER, WASTE, AND VENT PIPING FROM EX. ROUGHING TO THE NEW CLASSROOM SINK. PROVIDE NEW COLD & HOT WATER SHUT-OFF VALVES. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL QUANTITY, LOCATIONS, AND FIXTURE SPECIFICATIONS.
2	PROVIDE NEW WATER COOLER P-2 IN LOCATION OF PREVIOUSLY DEMOLISHED EQUIPMENT. EXTEND COLD WATER, WASTE, AND VENT PIPING FROM EX. ROUGHING TO THE NEW WATER COOLER. PROVIDE NEW COLD WATER SHUT-OFF VALVE. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL QUANTITY, LOCATIONS, & EQUIPMENT SPECIFICATIONS.
3	RE-INSTALL EXISTING TOILET. EXTEND COLD WATER, WASTE AND VENT PIPING FROM EX. ROUGHING TO TOILET AS REQUIRED.
4	RE-INSTALL EXISTING LAVATORY. EXTEND COLD/HOT WATER, WASTE & VENT PIPING FROM EX. ROUGHING TO LAVATORY.
5	COVER/PROTECT ALL EXISTING FLOOR DRAINS & CLEAN OUT DECK PLATES WITHIN FLOORS BEING DEMOLISHED.
6	PROVIDE NEW FUNNEL DRAIN ABOVE CEILING. PROVIDE NEW 1 1/4" CONDENSATE DRAIN DN FROM FUNNEL DRAIN WITHIN EXISTING STUD WALL OR SURFACE MOUNTED ON CMU WALL AND CONNECT TO TAILPIECE OF TRAP BELOW SINK. REFER ARCHITECTURAL DRAWINGS FOR CHASE LOCATIONS. REFER TO PLUMBING DETAILS.
7	RE-INSULATE ALL PLUMBING PIPING THROUGHOUT ENTIRE BUILDING INCLUDING DOMESTIC COLD WATER, HOT WATER, & HOT WATER RECIRCULATION LINES.

SPN 135-0278RR



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No.	Date	Issue
3	8/6/2019	ISSUED FOR BID
2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING

PLUMBING 2ND FLOOR PART 'B' NEW WORK PLAN

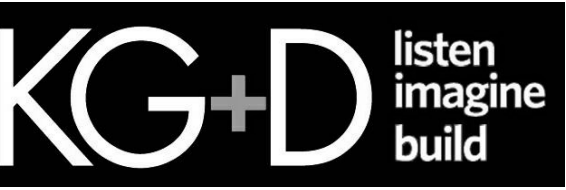
Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author Checker

Sheet Number
P205

Westover Magnet Elementary School

City of Stamford - Stamford Public Schools
412 Stillwater Ave, Stamford, CT. 06902

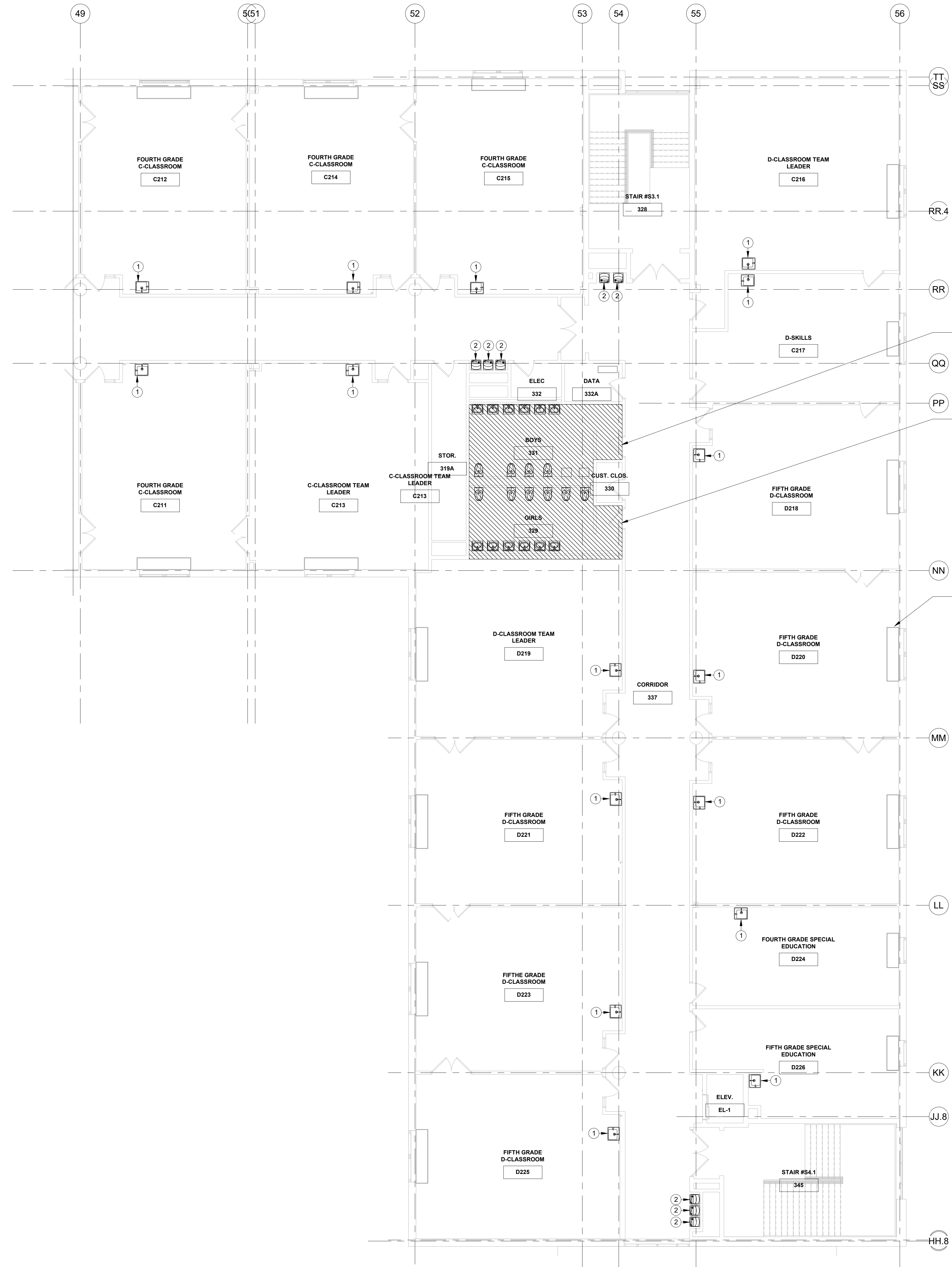
PROJECT # S-6722



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

Ola Consulting Engineers
50 Broadway, Hawthorne, New York 10532
914.472.8800
12 East 48th Street, 11th Fl. New York, NY 10017
646.849.4110
olace.com

CONSTRUCTION DOCUMENTS

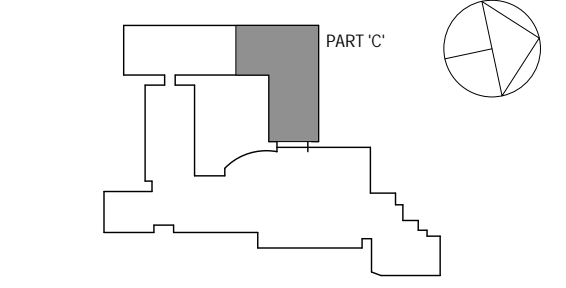


NO PLUMBING WORK IN BOYS 331. ALL PLUMBING FIXTURES EXISTING TO REMAIN.

NO PLUMBING WORK IN GIRLS 329. ALL PLUMBING FIXTURES EXISTING TO REMAIN.

UNIT VENTILATOR BY MECHANICAL CONTRACTOR SHOWN FOR REFERENCE ONLY

SPN 135-0278RR



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Professional Seal

PLUMBING NEW WORK NOTES	
1	PROVIDE NEW CLASSROOM SINK P-1 INCLUDING FAUCET & BUBBLER (IF APPLICABLE) IN LOCATION OF PREVIOUSLY DEMOLISHED FIXTURE. EXTEND COLD/HOT WATER, WASTE, AND VENT PIPING FROM EX. ROUGHING TO THE NEW CLASSROOM SINK. PROVIDE NEW COLD & HOT WATER SHUT-OFF VALVES. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL QUANTITY, LOCATIONS, AND FIXTURE SPECIFICATIONS.
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7	RE-INSULATE ALL PLUMBING PIPING THROUGHOUT ENTIRE BUILDING INCLUDING DOMESTIC COLD WATER, HOT WATER, & HOT WATER RECIRCULATION LINES

1 PLUMBING 2ND FLOOR PART 'C' NEW WORK PLAN
SCALE: 1/8" = 1'-0"

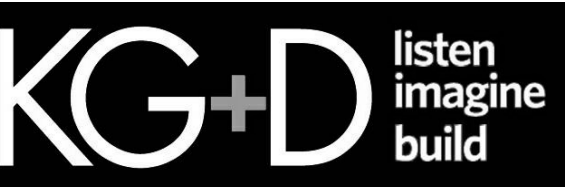
Job No. NKGD0206.00 Date 08/06/2019
Scale AS NOTED Drawn / Checked Author Checker

Sheet Number
P206

Westover Magnet Elementary School

City of Stamford - Stamford Public Schools
412 Stillwater Ave, Stamford, CT. 06902

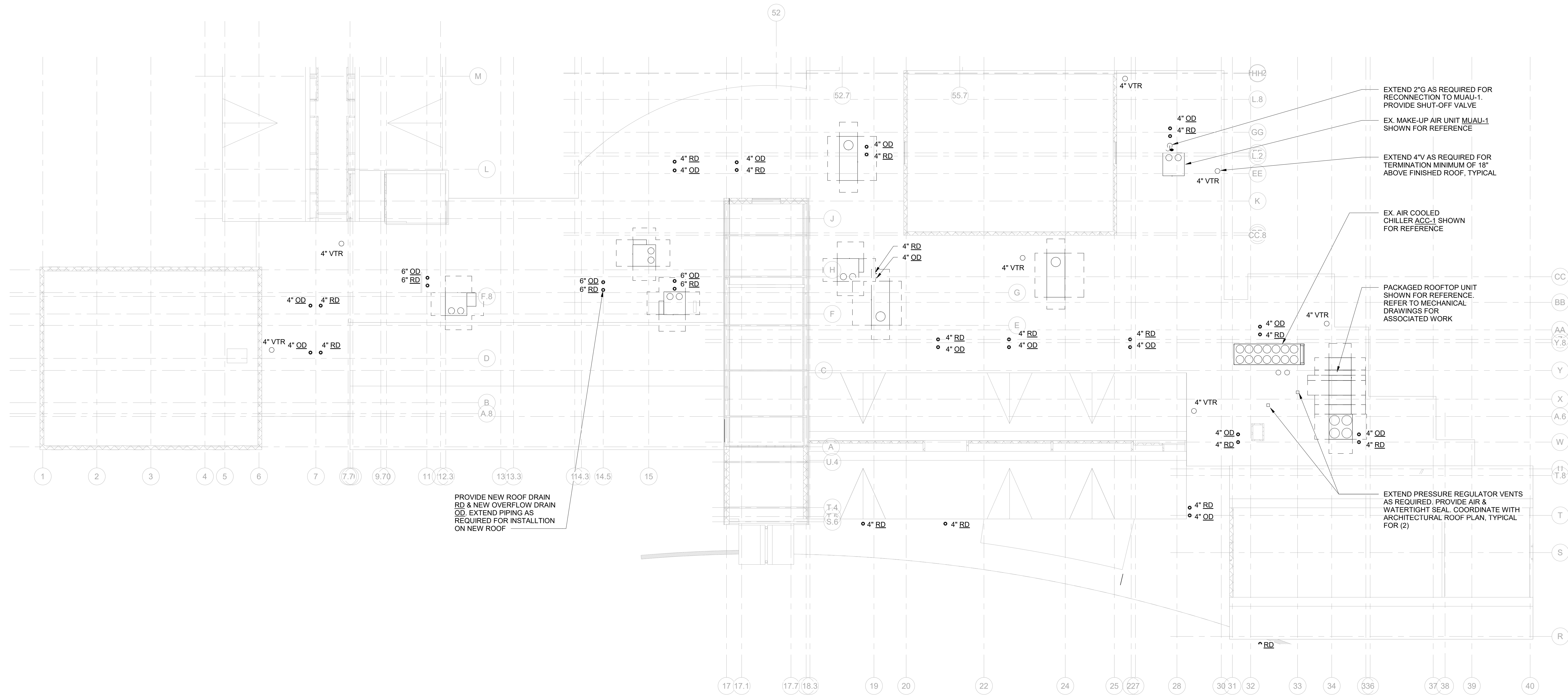
PROJECT # S-6722



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



CONSTRUCTION DOCUMENTS



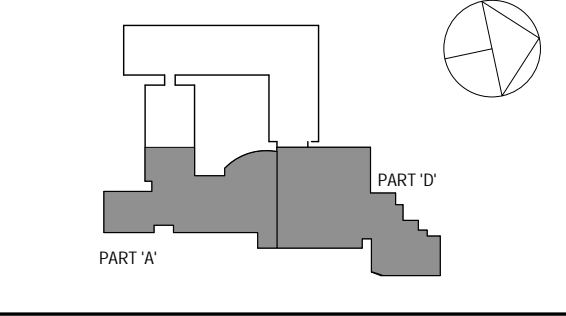
EXTEND 2" G AS REQUIRED FOR RECONNECTION TO MUAU-1. PROVIDE SHUT-OFF VALVE
EX. MAKE-UP AIR UNIT MUAU-1 SHOWN FOR REFERENCE
EXTEND 4" V AS REQUIRED FOR TERMINATION MINIMUM OF 18" ABOVE FINISHED ROOF, TYPICAL
EX. AIR COOLED CHILLER ACC-1 SHOWN FOR REFERENCE

PACKAGED ROOFTOP UNIT SHOWN FOR REFERENCE. REFER TO MECHANICAL DRAWINGS FOR ASSOCIATED WORK

EXTEND PRESSURE REGULATOR VENTS AS REQUIRED, PROVIDE AIR & WATERTIGHT SEAL. COORDINATE WITH ARCHITECTURAL ROOF PLAN, TYPICAL FOR (2)

PROVIDE NEW ROOF DRAIN RD & NEW OVERFLOW DRAIN OD. EXTEND PIPING AS REQUIRED FOR INSTALLATION ON NEW ROOF

SPN 135-0278RR



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PLUMBING ROOF NEW WORK PLAN
SCALE: 1/16" = 1'-0"
NORTH

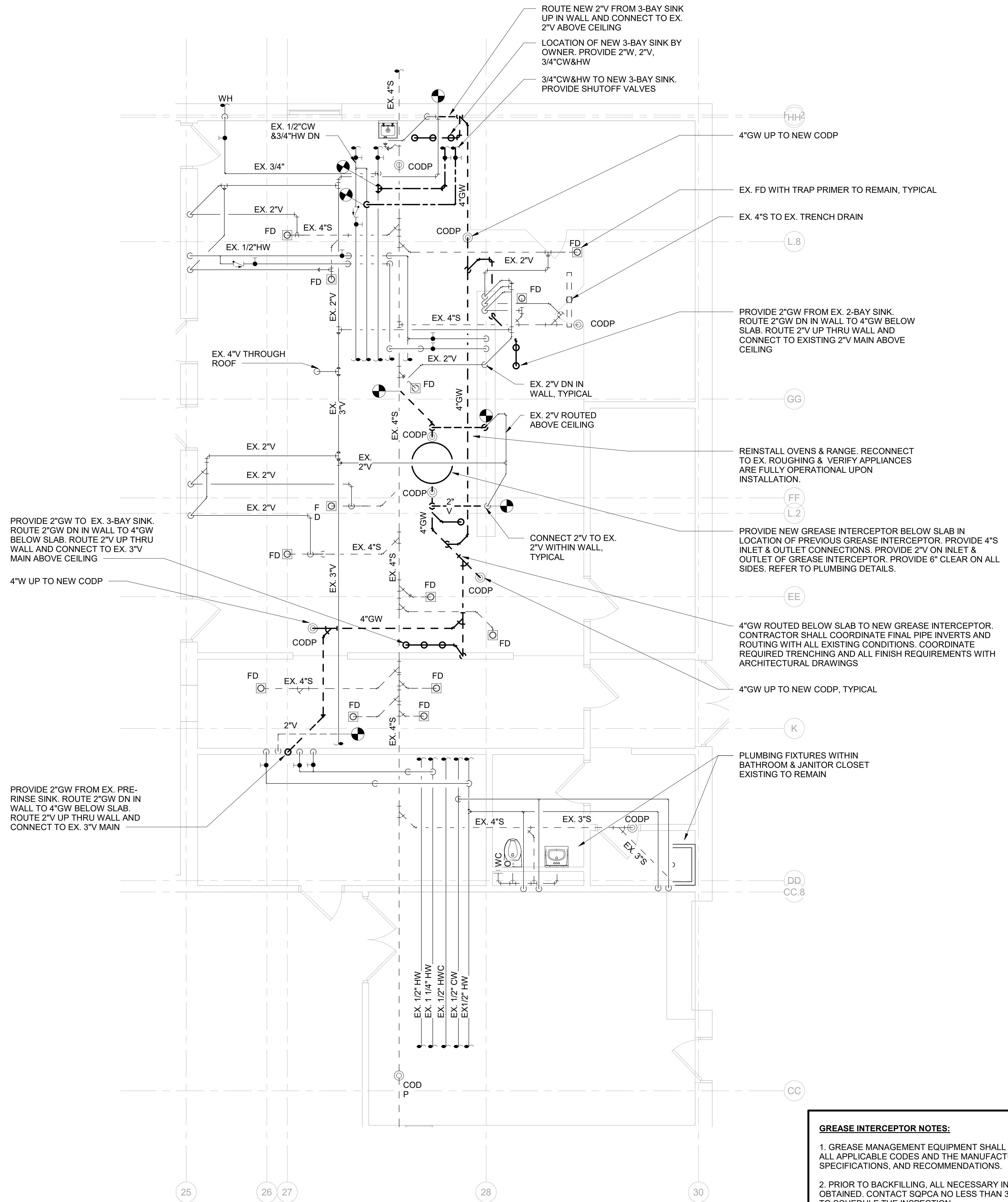
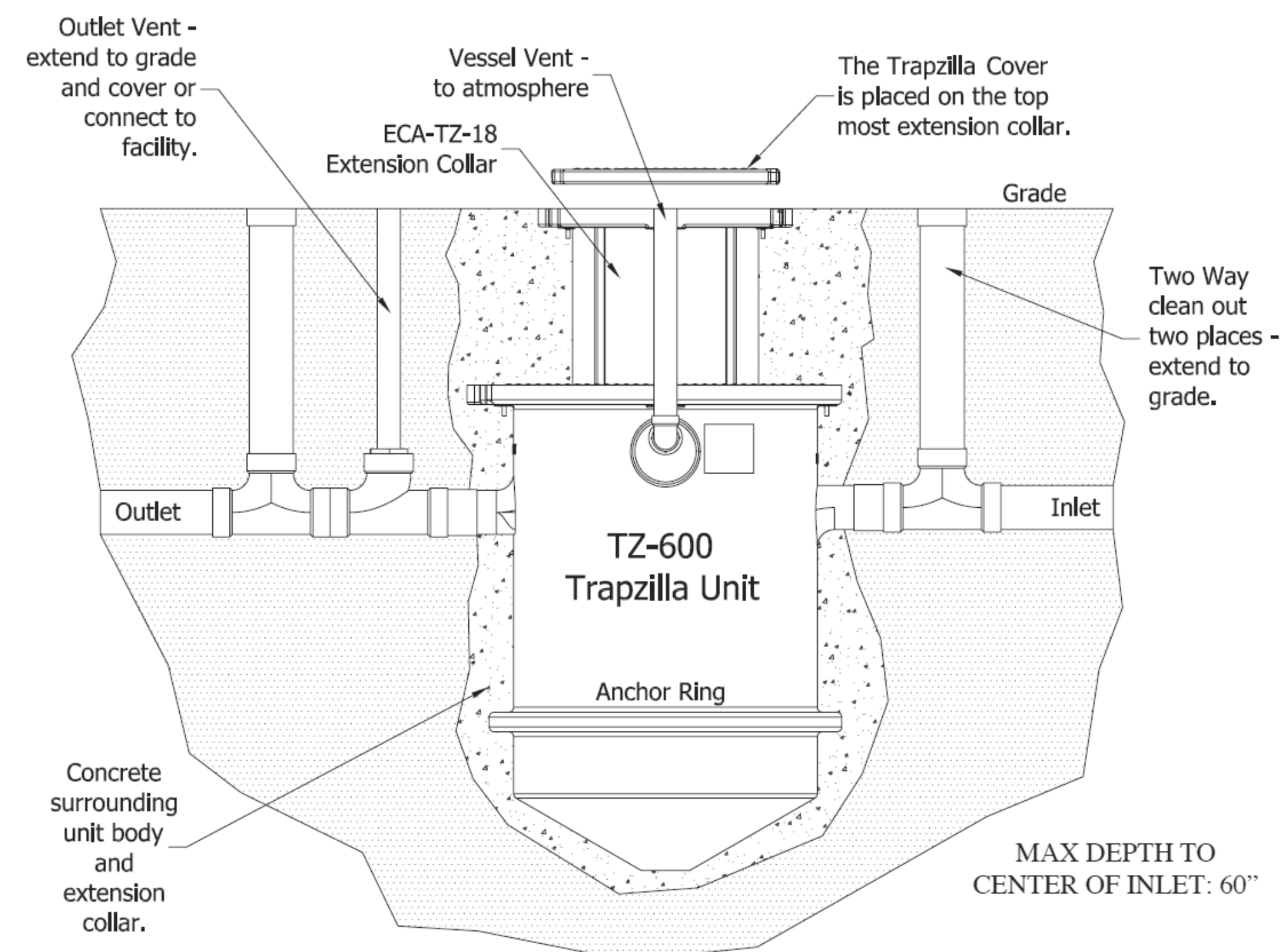
3	8/6/2019	ISSUED FOR BID
2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING
No.	Date	Issue

PLUMBING ROOF NEW WORK PLAN

Job No.	NKGD206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author / Checker

Sheet Number
P207

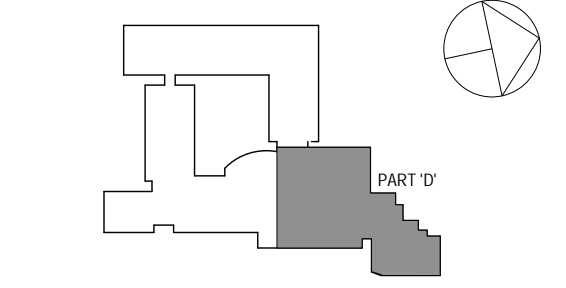
Westover Magnet Elementary School - Grease Interceptor Sizing						
Item	Number of Compartments	Compartment Size - Inches	Volume (Gallons)	Displaced Volume	2-Minute Drain Down Flowrate	
Ex. 3-Bay Sink	3	28" x 20" x 13.5" Deep	98	73.5	36.8	
Ex. 2-Bay Sink	2	28" x 20" x 13.5" Deep	65	48.75	24.4	
Ex. Pre-Rinse Sink	1	18" x 18" x 8" Deep	9	6.75	3.4	
New 3-Bay Sink	3	18" x 18" x 13" Deep	55	41.25	20.6	
Kettle	-	-	-	45	22.5	
				Total (GPM)	107.6	
1.) Displaced Volume = 75% Full				Min. Required Grease Storage	215.3	
2.) Kettle Wash Dump = 50% Filled						



1 PLUMBING KITCHEN NEW WORK PART PLAN
SCALE: 1/4" = 1'-0"
NORTH

- GREASE INTERCEPTOR NOTES:**
- GREASE MANAGEMENT EQUIPMENT SHALL BE INSTALLED WITH STRICT ADHERENCE TO ALL APPLICABLE CODES AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, SPECIFICATIONS, AND RECOMMENDATIONS.
 - PRIOR TO BACKFILLING, ALL NECESSARY INSPECTIONS AND APPROVALS SHALL BE OBTAINED. CONTACT SOPCA NO LESS THAN 3 WORKING DAYS IN ADVANCE AT 203-977-4790 TO SCHEDULE THE INSPECTION.
 - PROVIDE NEW FLOOR SINKS WITH A FIELD FABRICATED BARRIER TO PREVENT SEEPAGE OF SOAPY MOP WATER INTO THE GREASE WASTE SYSTEM. BARRIER SHALL BE 1" HIGH PVC OR ALUMINUM ANGLE FRAME LOCATED AROUND THE PERIMETER OF THE FLOOR SINK. ATTACHE BARRIER TO THE FLOOR SINK. AND SEAL FRAME WITH WATERPROOF SILICONE SEALANT.
 - FOR TRAPZILLA GREASE INTERCEPTOR INSTALLATION: IF GROUNDWATER REDOXIMORPHIC FEATURES (MOTTLING) IS ENCOUNTERED, PROVIDE BOUNCANCE OFFSET IN ACCORDANCE WITH SECTION 5.4 OF THE MANUFACTURER'S INSTALLATION AND MAINTENANCE INSTRUCTIONS.

SPN 135-0278RR



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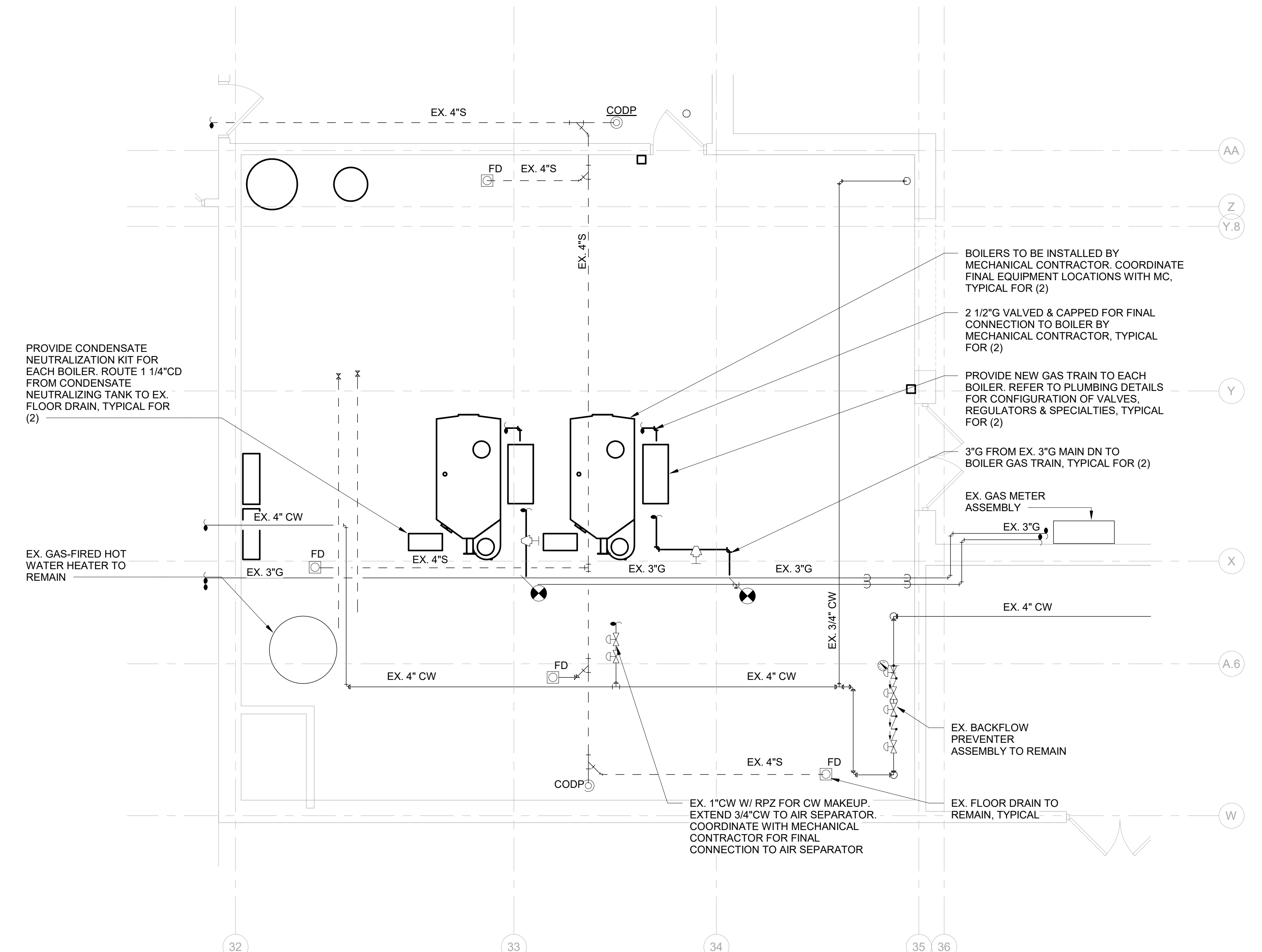
Professional Seal

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1	5/15/2019	ISSUED FOR PRICING
No.	Date	Issue

PLUMBING KITCHEN NEW WORK PART PLAN

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author / Checker

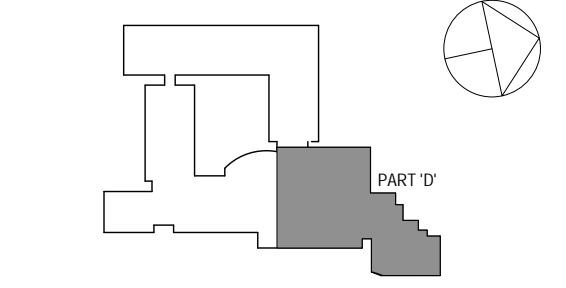
Sheet Number
P208



PLUMBING BOILER ROOM NEW WORK PLAN - ALTERNATE A
SCALE: 1/4" = 1'-0"
NORTH

BASE BID:
RE-INSULATE ALL PIPING WITHIN BOILER ROOM.
ALL EQUIPMENT & PIPING IN BOILER ROOM
EXISTING TO REMAIN.

SPN 135-0278RR



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2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING

No. Date Issue

Sheet Title

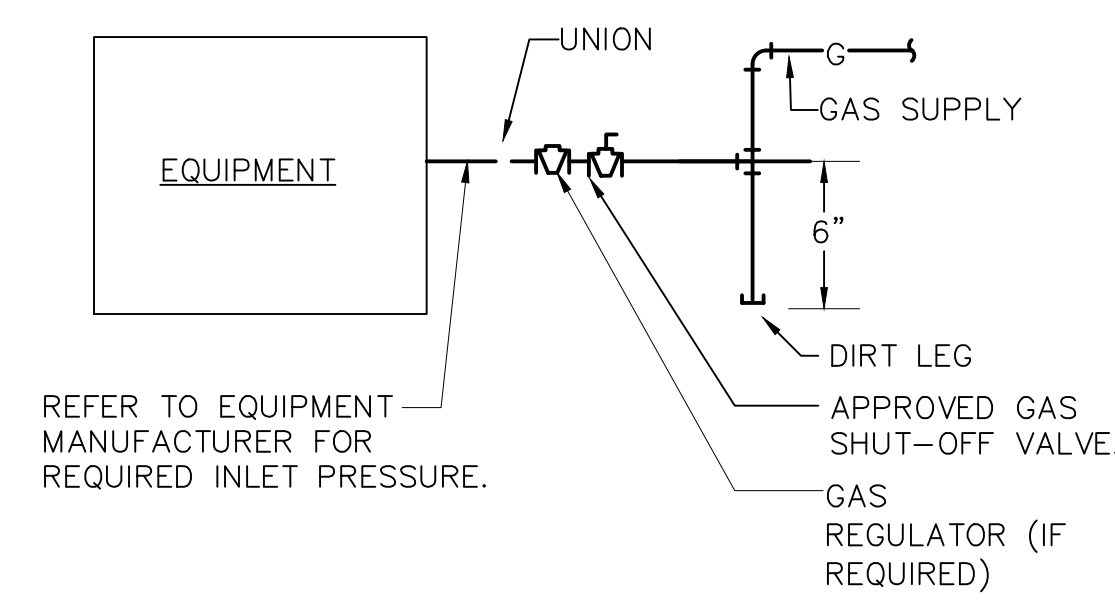
PLUMBING BOILER ROOM NEW
WORK PLAN - ALTERNATE A

Job No. NKGD0206.00 Date 08/06/2019

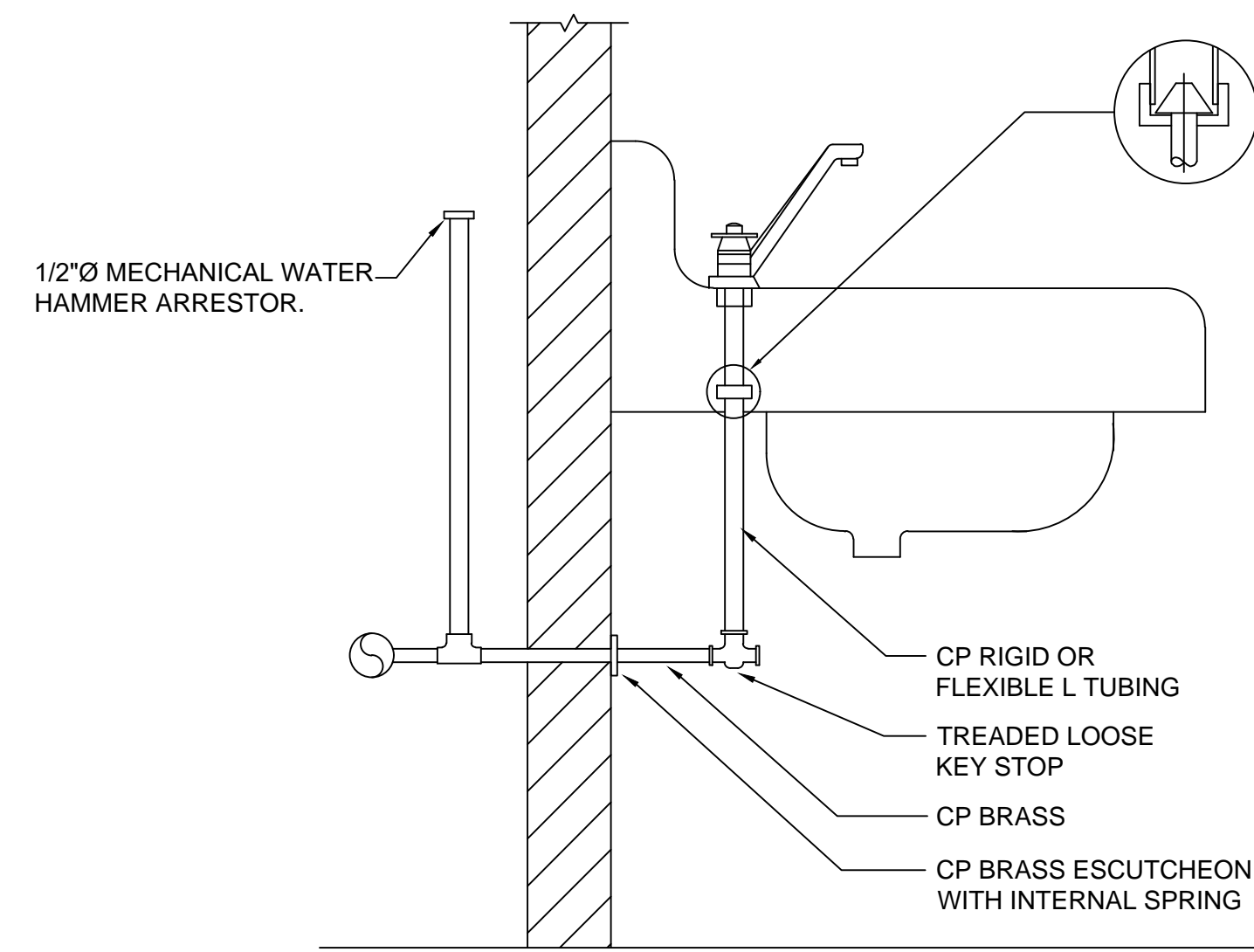
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Sheet Number

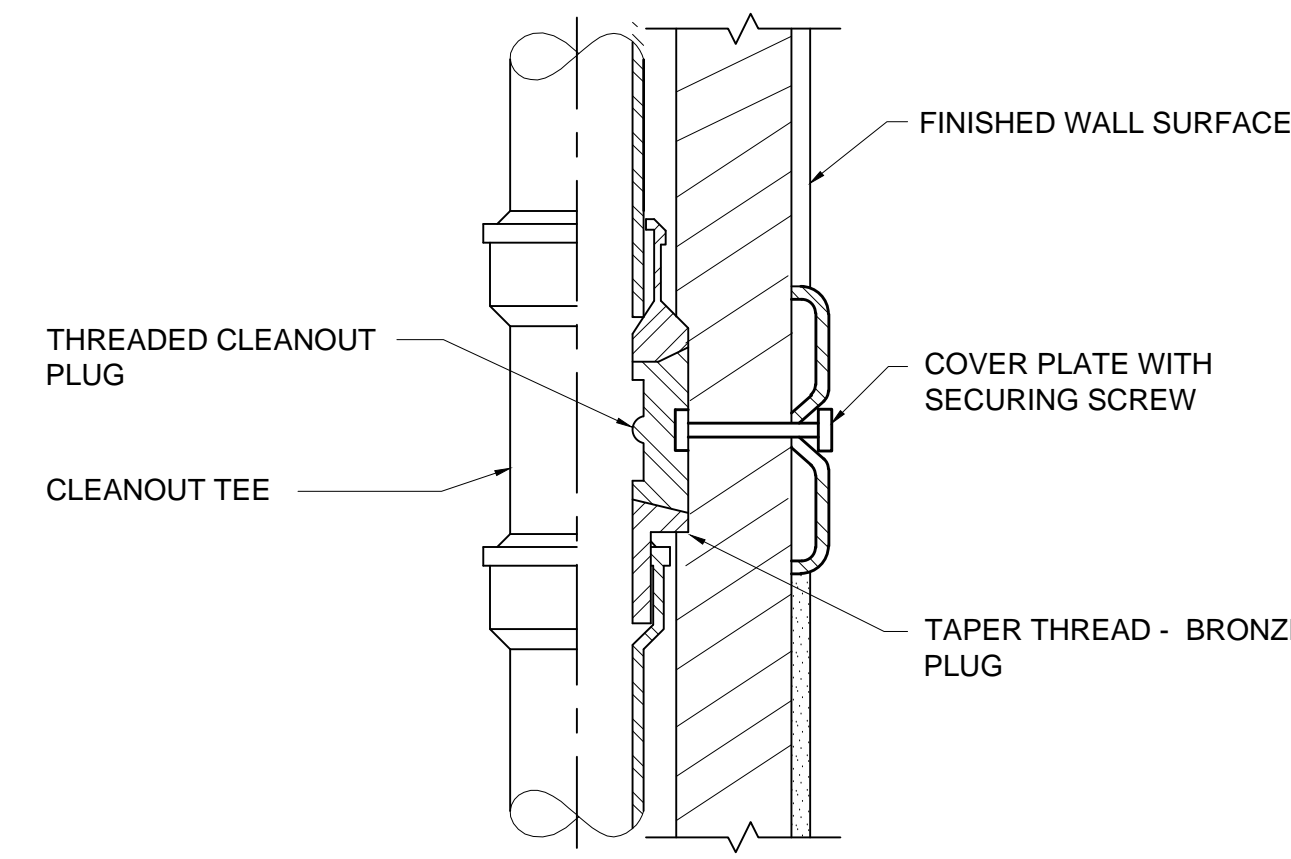
P209



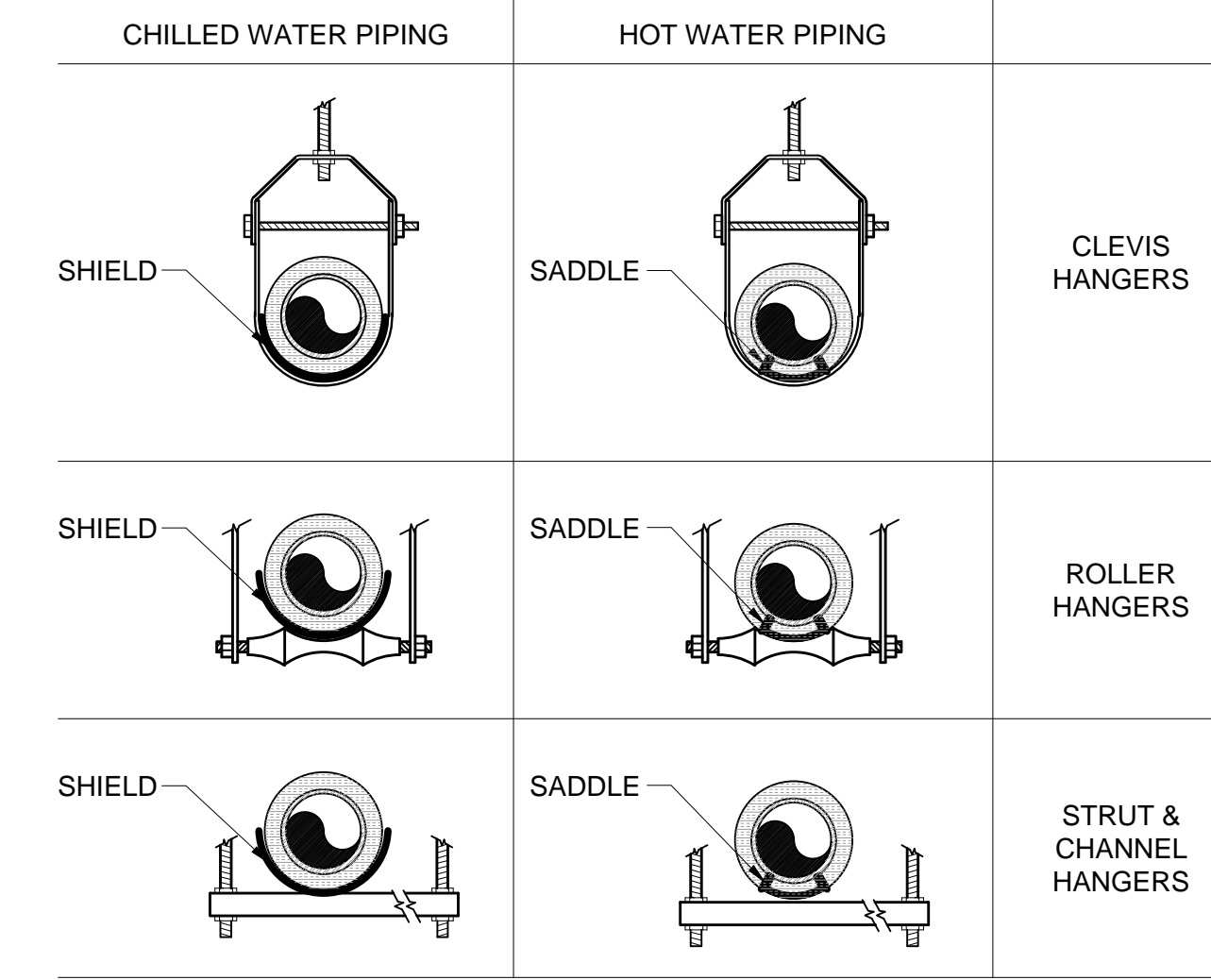
12 GAS CONNECTION SCHEMATIC
SCALE: NONE



9 TYPICAL LAVATORY SUPPLY CONNECTION
SCALE: NONE

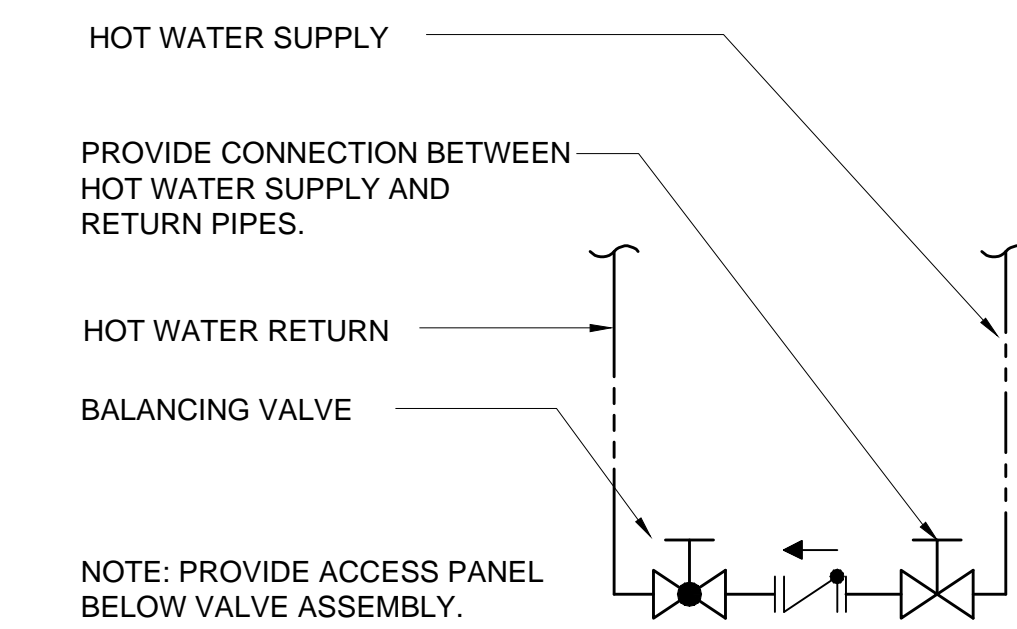


6 CLEANOUT CONCEALED BEHIND WALL
SCALE: NONE

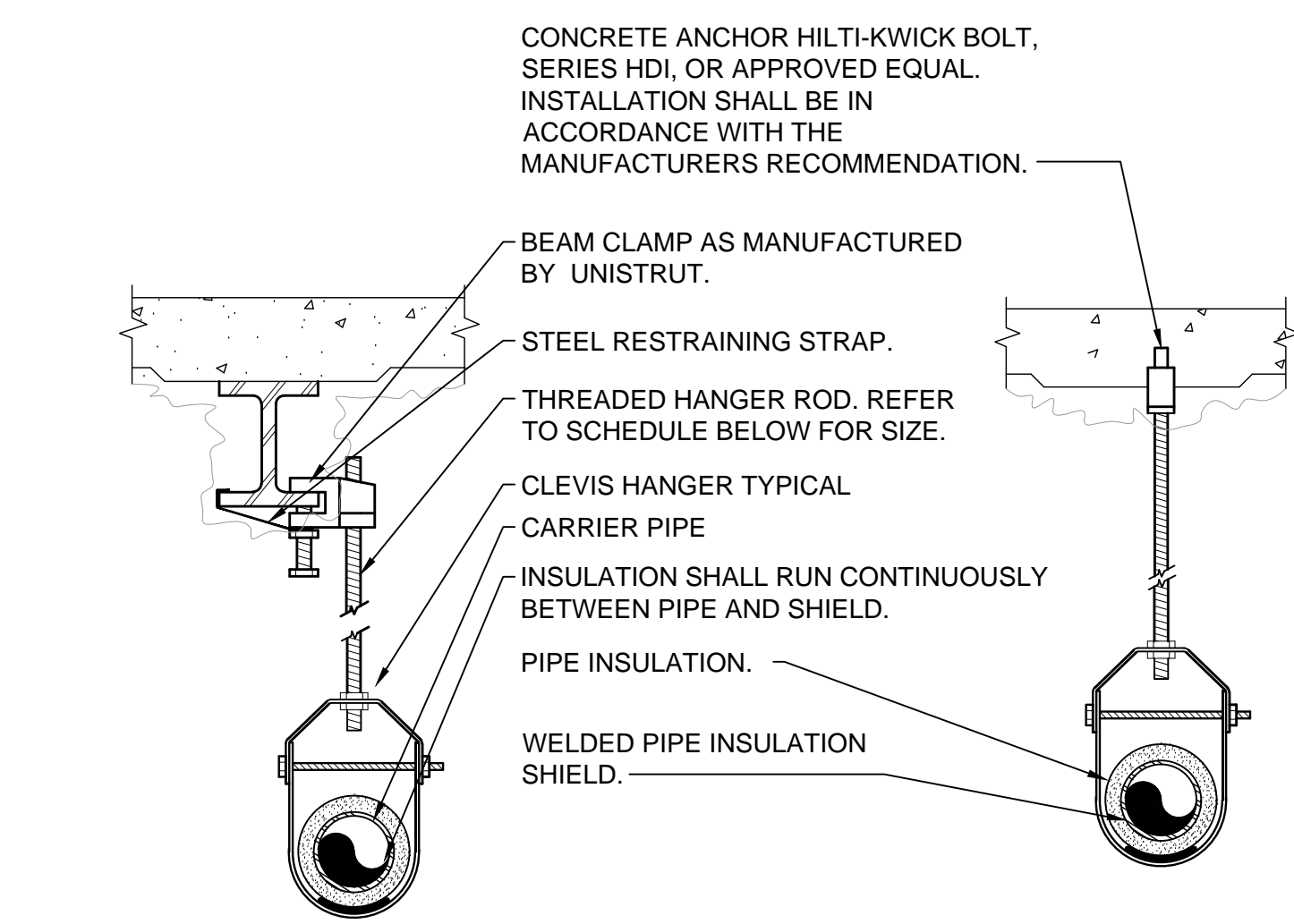


NOTES:
1. INSULATION ON ALL COLD SURFACES SHALL BE APPLIED WITH A CONTINUOUS, UNBROKEN VAPOR SEAL. HANGERS, SUPPORTS, ANCHORS, ETC., THAT ARE SECURED DIRECTLY TO COLD SURFACES SHALL BE ADEQUATELY INSULATED AND VAPOR SEALED TO PREVENT CONDENSATION.
2. GALVANIZED METAL SHIELDS SHALL BE APPLIED BETWEEN HANGERS OR SUPPORTS AND THE PIPE INSULATION AS SHOWN ABOVE. SHIELDS SHALL BE FORMED TO FIT THE INSULATION AND SHALL EXTEND UP TO THE CENTERLINE OF THE PIPE.
3. RIGID INSULATION INSERTS SHALL BE INSTALLED ON PIPE SIZES 1 1/2\"/>

3 PIPE INSULATION SADDLE/SHIELD SCHEDULE
SCALE: NONE



2 HOT WATER CONNECTION DETAIL
SCALE: NONE

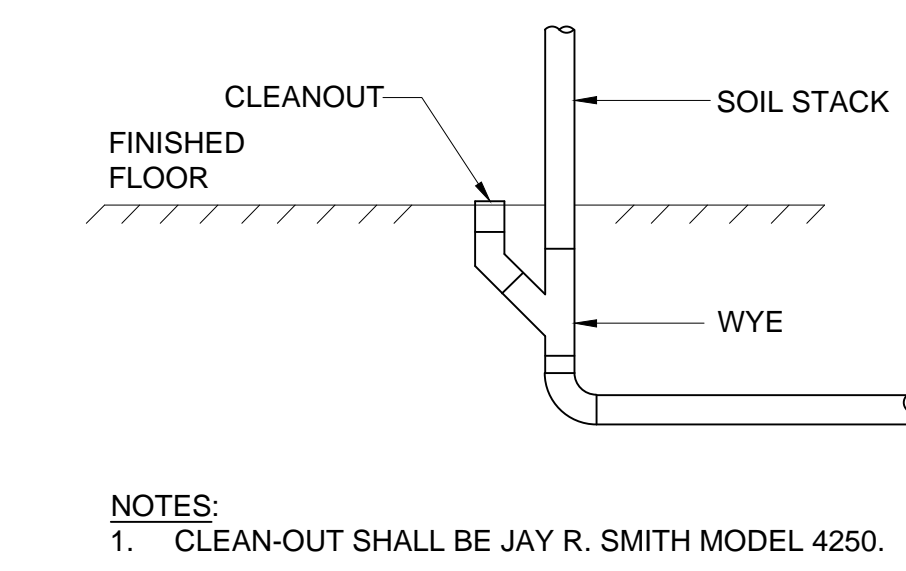


1 PIPE HANGER DETAIL
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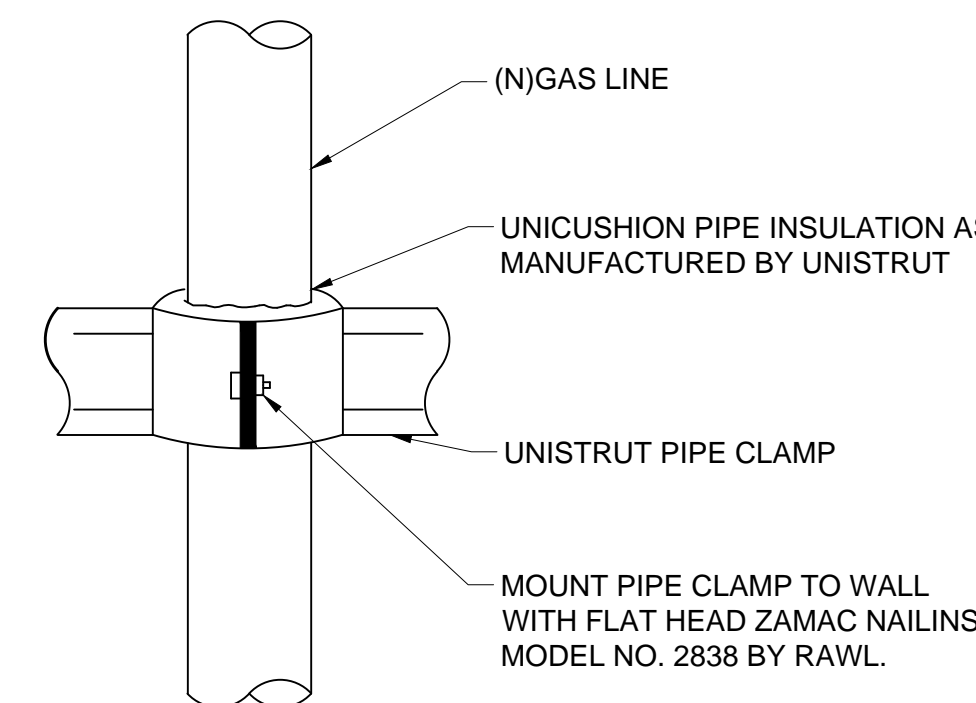
HANGER ROD SCHEDULE

PIPING MATERIAL	PIPE SIZE (IN.)	HANGER ROD DIAMETER (IN.)
STEEL (SCHEDULE 40 & SCHEDULE 80)	1/2"-1"	3/8"
	1 1/4"-3"	1/2"
	4"-5"	5/8"
	6"-8"	3/4"
	10"-12"	7/8"
COPPER	14"-18"	1"
	1/4"-2"	3/8"
	2 1/2"-4"	5/8"
	5"-8"	3/4"

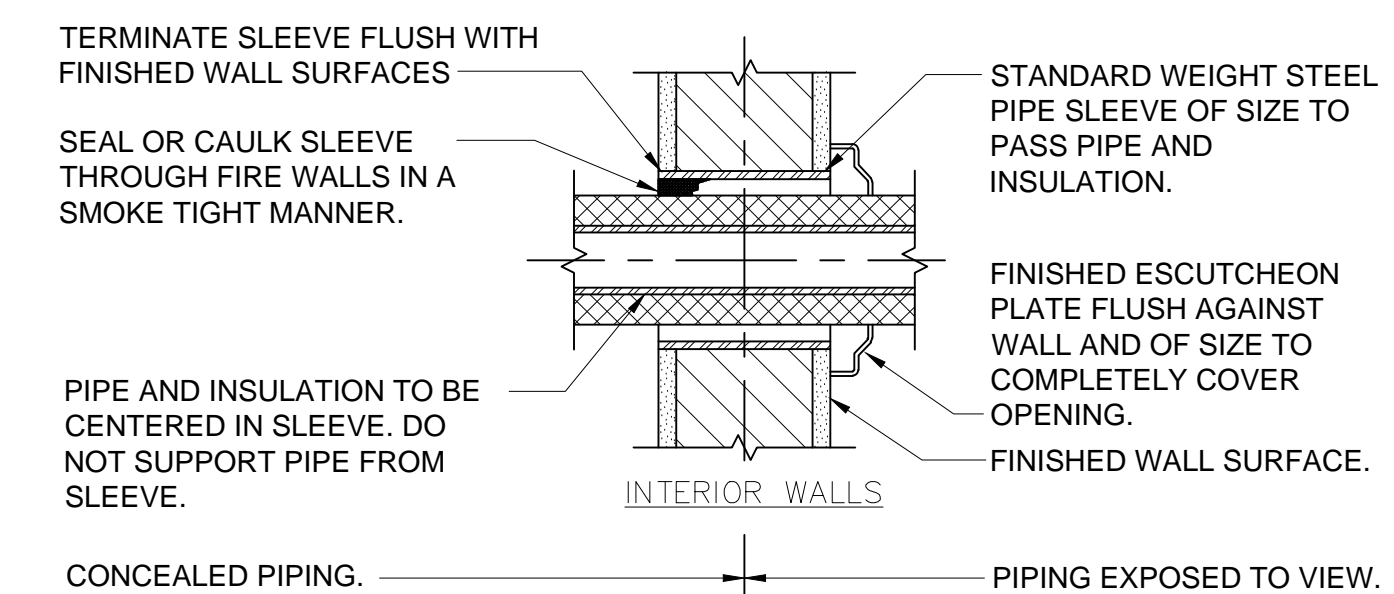
NOTES:
a.) THE MAXIMUM HORIZONTAL SPACING OF CAST-IRON PIPE HANGERS SHALL BE INCREASED TO 10 FT. WHERE 10 FOOT LENGTHS OF PIPE ARE INSTALLED.
b.) FOR SIZES 2 IN. AND SMALLER, A GUIDE SHALL BE INSTALLED MIDWAY BETWEEN REQUIRED VERTICAL SUPPORTS. SUCH GUIDES SHALL PREVENT PIPE MOVEMENT IN A DIRECTION PERPENDICULAR TO THE AXIS OF THE PIPE.
c.) CLEVIS HANGERS WITH WELDED INSULATION SHIELDS ON ALL PIPES LARGER THAN 1".
d.) FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED.
e.) FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
f.) ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
g.) FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
h.) WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.



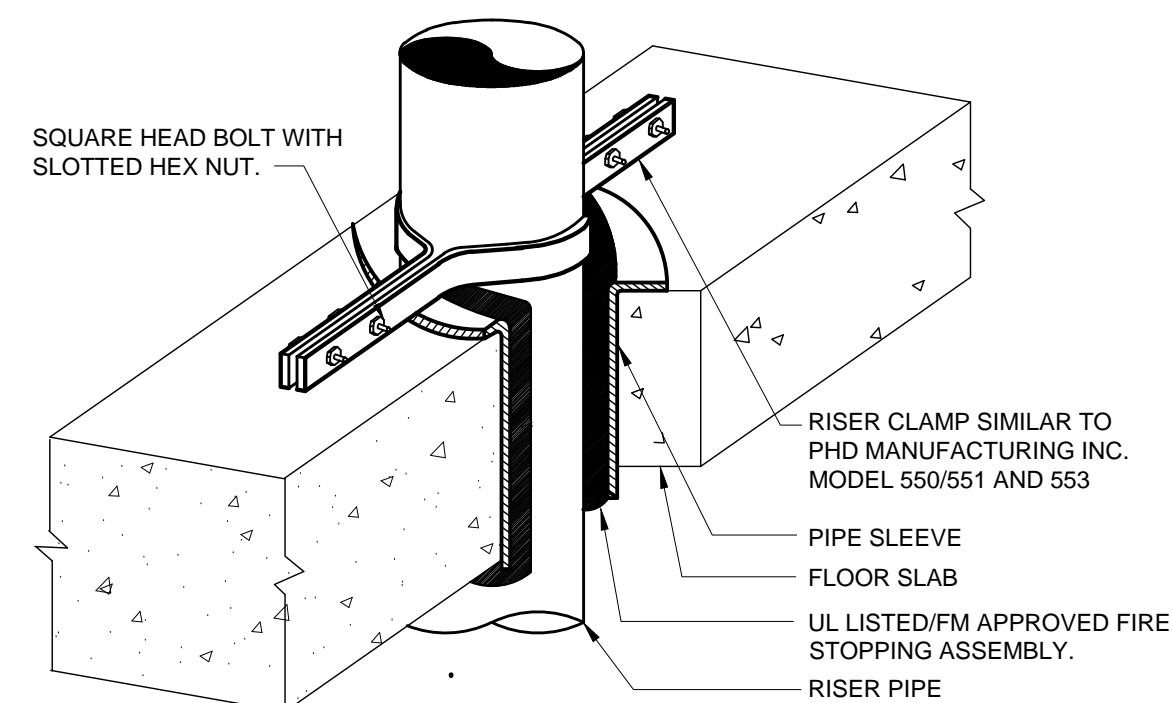
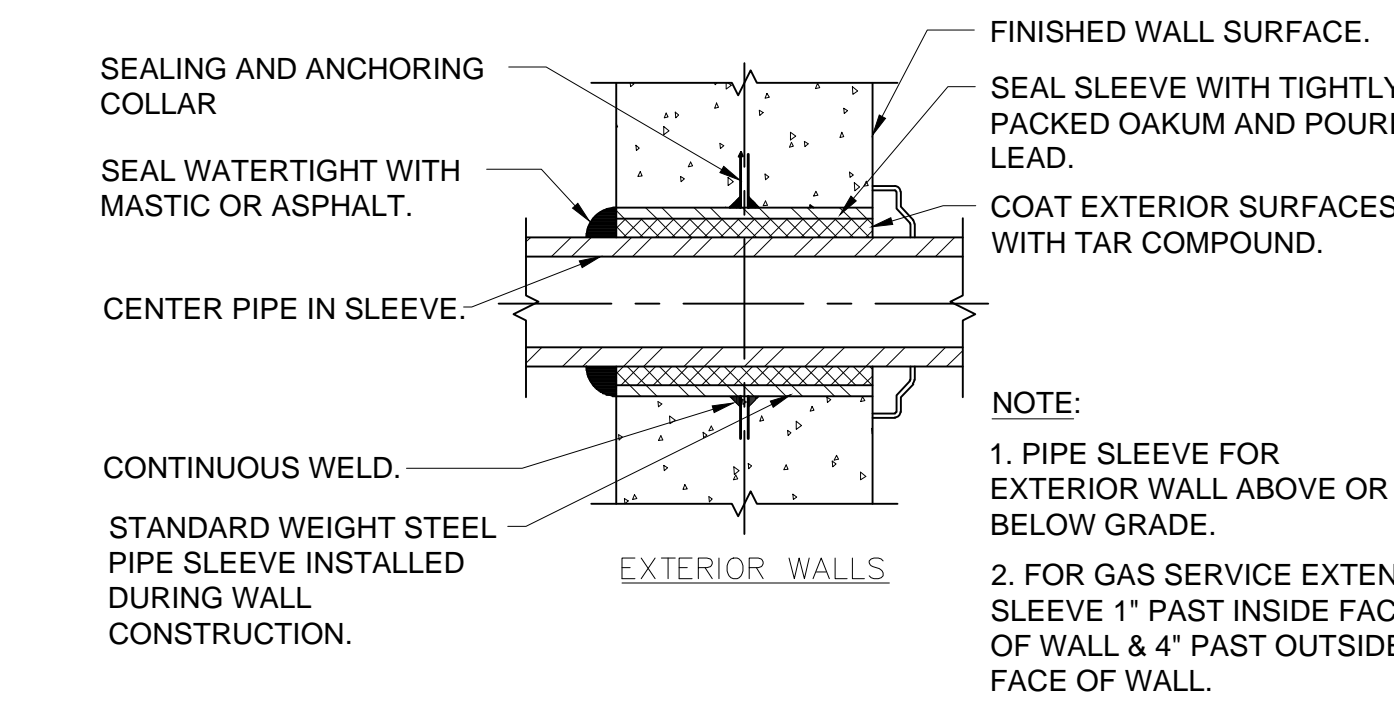
11 CLEANOUTS FOR SOIL STACK
SCALE: NONE



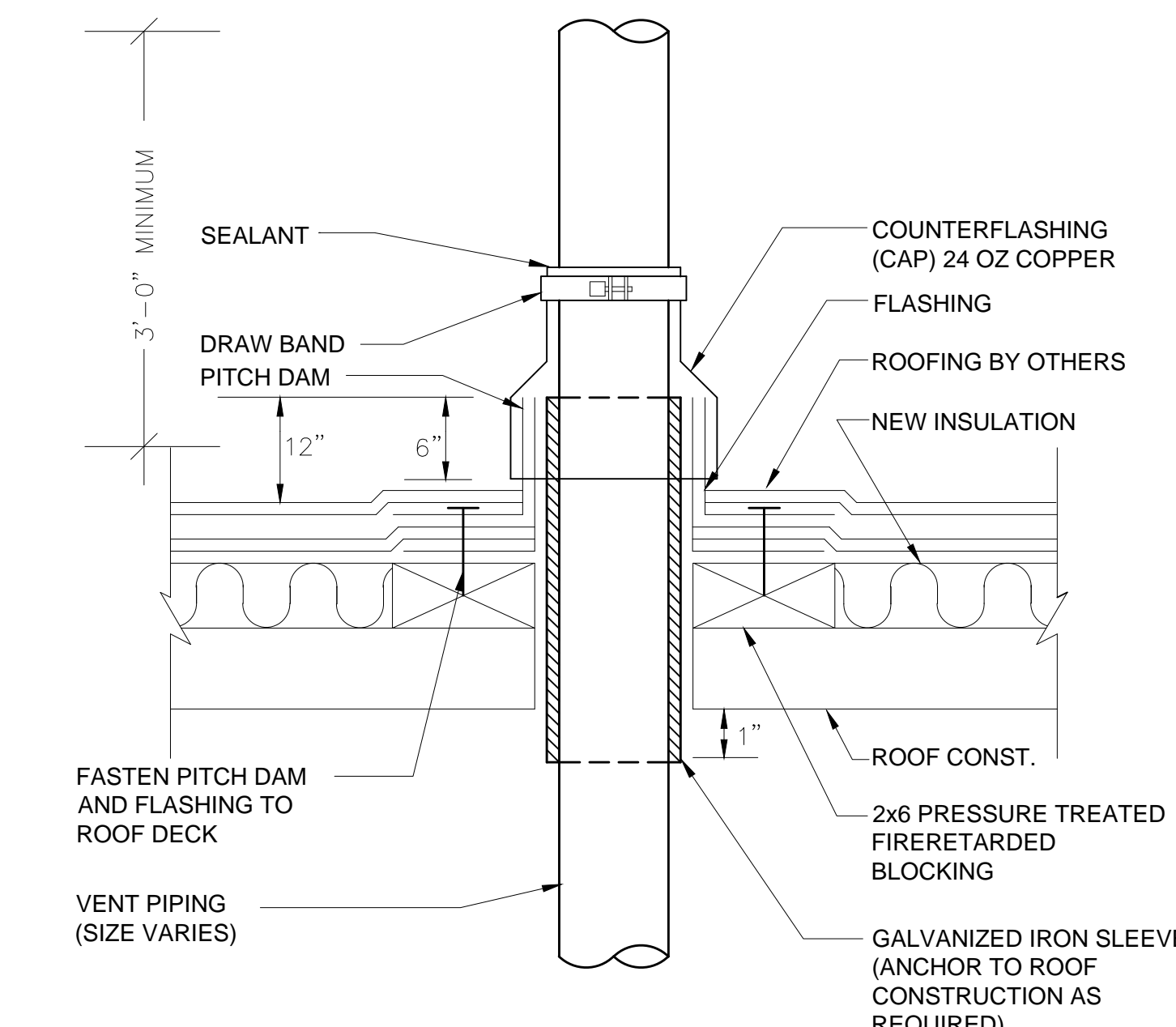
8 GAS PIPE SUPPORT DETAIL
SCALE: NONE



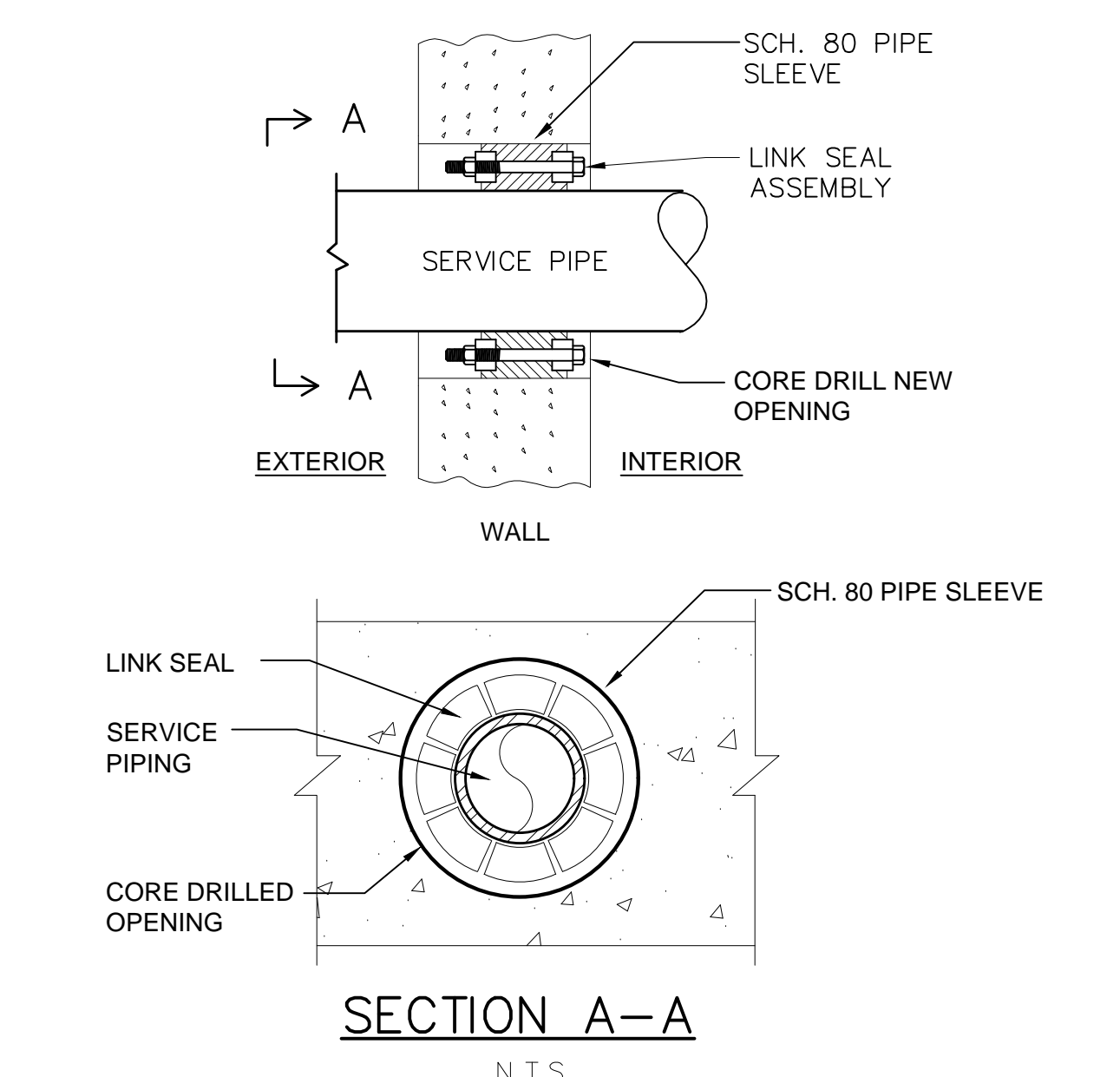
5 PIPE SLEEVES THROUGH WALL
SCALE: NONE



10 FLOOR PENETRATION DETAIL
SCALE: NONE



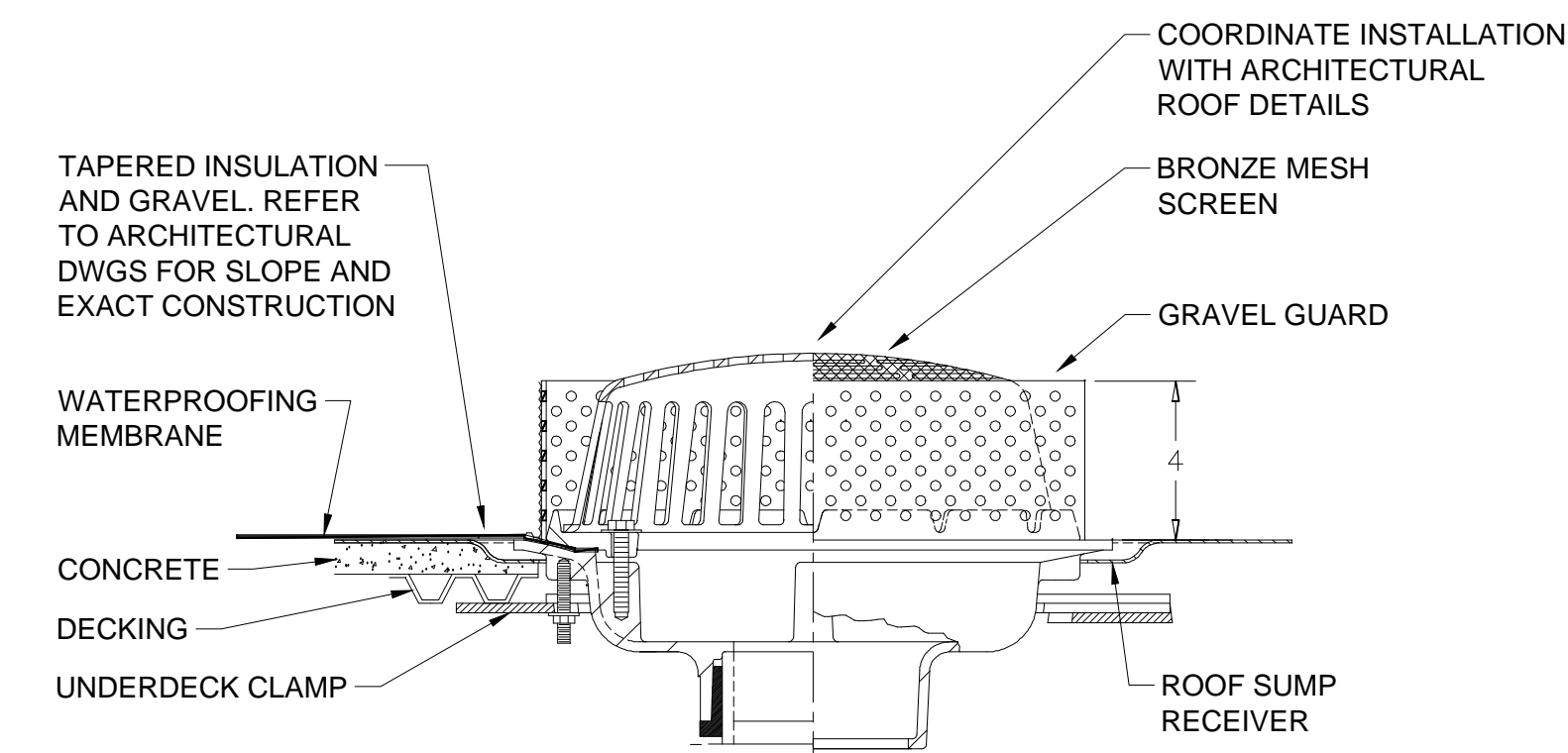
7 VENT THROUGH ROOF DETAIL
SCALE: NONE



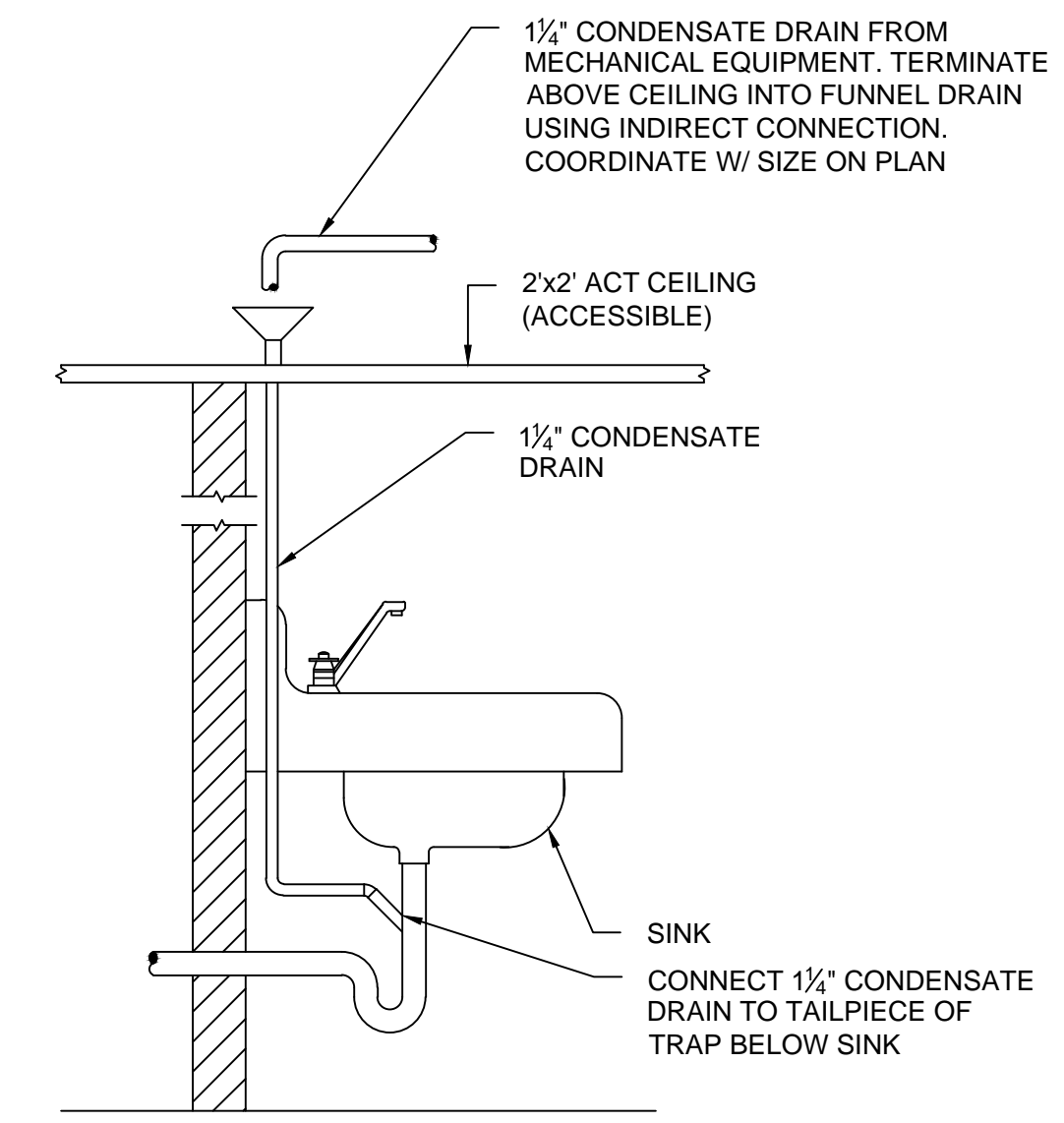
4 LINK SEAL DETAIL
SCALE: NONE

NOTES:
1. SEAL ASSEMBLY BASED ON THUNDERLINE MODEL "C" LINK-SEAL MODULAR SEAL, WITH EPDM SEAL ELEMENT, COMPOSITE PRESSURE PLATES, STEEL WITH 2-PART ZINC DICHROMATE & ORGANIC COATING NUTS AND BOLTS AND WITH A OPERATING TEMPERATURE RANGE OF -40°F TO +250°F.

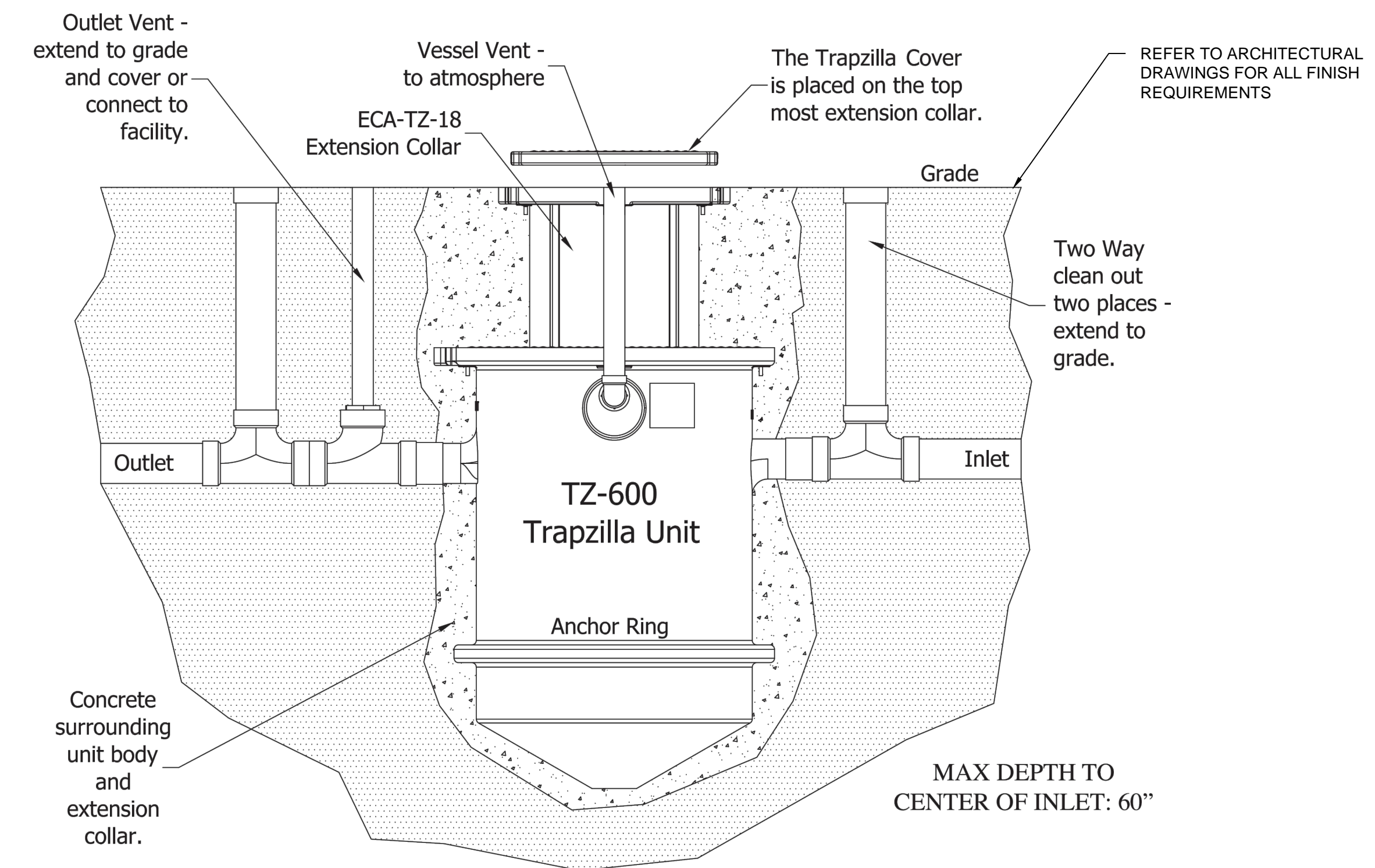
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4 ROOF DRAIN DETAIL
SCALE: NONE

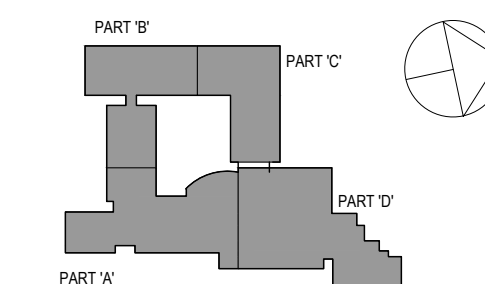


3 TYPICAL SINK CONDENSATE DRAIN CONNECTION DETAIL
SCALE: NONE



2 GREASE INTERCEPTOR INSTALLATION
SCALE: NONE

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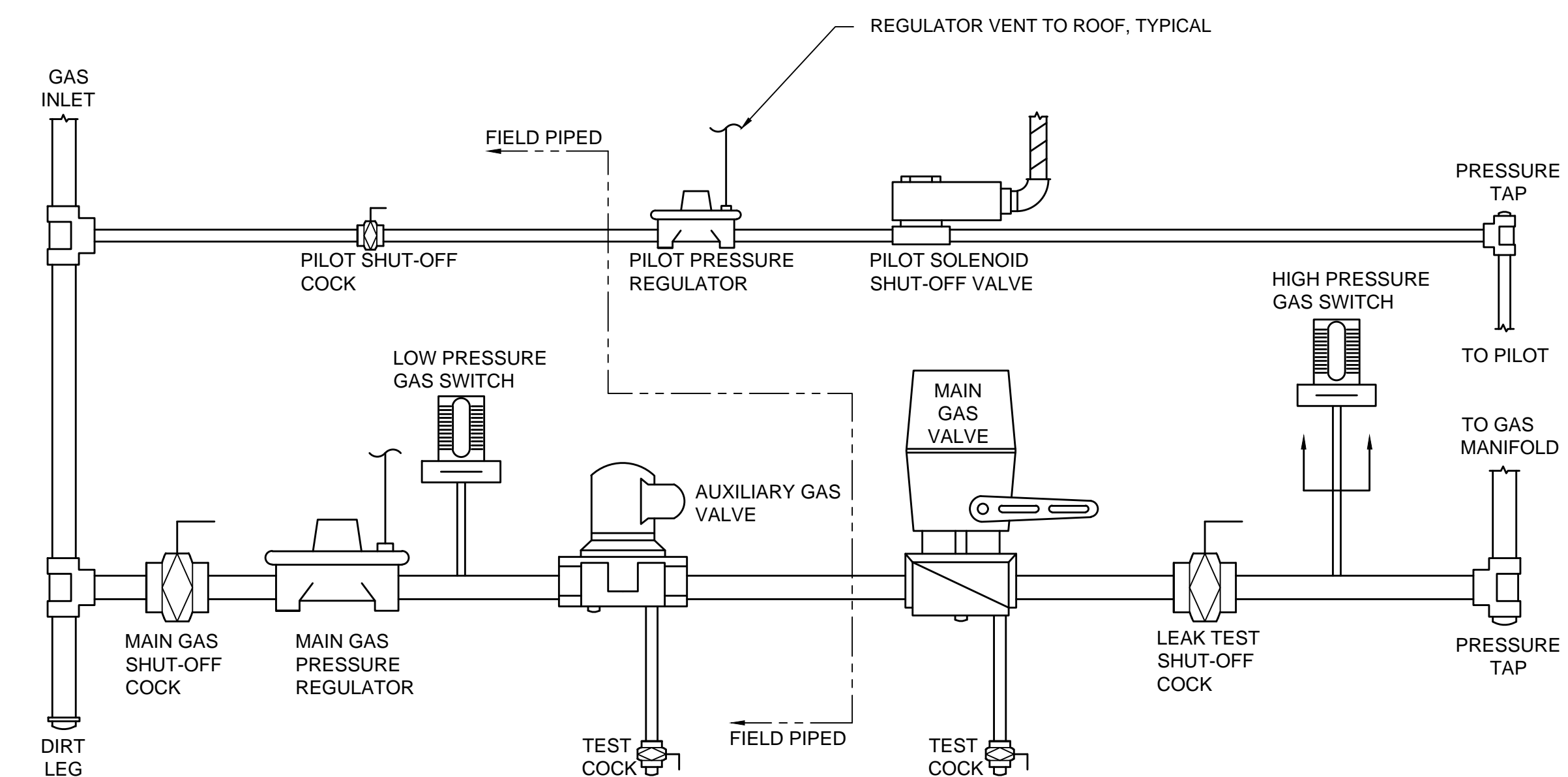
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NOTES:
1.) SINGLE VALVE WITH PROOF OF CLOSURE SWITCH. MAY OMIT AUX. VALVE.
2.) GAS TRAIN MAY BE RE-PIPED IF SO STATED ON BURNER SPECIFICATION SHEET.

1 GAS TRAIN PIPING DIAGRAM - ALTERNATE A
SCALE: NONE

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Sheet Title

PLUMBING DETAILS

Job No. NKGD0206.00 Date 08/6/2019

Scale AS NOTED Drawn / Checked

Sheet Number

P702

SYMBOL & ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
-	AC-	AIR CONDITIONING UNIT
-	ACC-	AIR COOLED CONDENSING UNIT
-	AD	ACCESS DOOR
-	AFF	ABOVE FINISHED FLOOR
-	AHC	ABOVE HUNG CEILING
-	AHU-	AIR HANDLING UNIT
-	AP	ACCESS PANEL
-	BDD	BACKDRAFT DAMPER
-	BHP	BRAKE HORSEPOWER
-	BTU	BRITISH THERMAL UNIT
-	CFM	CUBIC FEET PER MINUTE
-	CH-	CABINET HEATER
-	CL	CENTERLINE
-	CP-	CONDENSATE PUMP
-	DB	DRY BULB TEMPERATURE
-	DIA. OR Ø	DIAMETER
-	DX	DIRECT EXPANSION
-	EA	EXHAUST AIR
-	EAT	ENTERING AIR TEMPERATURE
-	EF-	EXHAUST FAN
-	EL	ELEVATION
-	ER	EXHAUST REGISTER
-	ESP	EXTERNAL STATIC PRESSURE
-	EWT	ENTERING WATER TEMPERATURE
-	FCU-	FAN COIL UNIT
-	FPM	FEET PER MINUTE
-	FPS	FEET PER SECOND
-	FTR	FINNED TUBE RADIATION
-	GPM	GALLONS PER MINUTE
-	HP	HORSE POWER
-	HV-	HEATING AND VENTILATING UNIT
-	HVAC-	HEATING, VENTILATING AND AIR CONDITIONING UNIT
-	KX-	KITCHEN EXHAUST
-	LAT	LEAVING AIR TEMPERATURE
-	LF	LINEAR FEET
-	LWT	LEAVING WATER TEMPERATURE
-	MBH	1000 BRITISH THERMAL UNITS PER HOUR
-	MER	MECHANICAL EQUIPMENT ROOM
-	NC	NORMALLY CLOSED
-	NIC	NOT IN CONTRACT
-	NO	NORMALLY OPEN
-	OAI	OUTSIDE AIR INTAKE
-	PSI	POUNDS PER SQUARE INCH
-	RA	RETURN AIR
-	RF-	RETURN FAN
-	RPM	REVOLUTIONS PER MINUTE
-	RTU-	ROOFTOP UNIT
-	SA	SUPPLY AIR
-	SP	STATIC PRESSURE
-	TD	TRANSFER DUCT
-	TDH	TOTAL DYNAMIC HEAD
-	TF-	TRANSFER FAN
-	TSP	TOTAL STATIC PRESSURE
-	TYP.	TYPICAL
-	U.O.N.	UNLESS OTHERWISE NOTED
-	UV-	UNIT VENTILATOR
-	WB	WET BULB TEMPERATURE
-	WG	INCHES OF WATER GAUGE
-	WMS	WIRE MESH SCREEN
-	WB	WET BULB TEMPERATURE
-	WG	INCHES OF WATER GAUGE
-	-	3-WAY VALVE
-	-	FLEXIBLE CONNECTION
-	-	2-WAY VALVE
-	-	PLUG VALVE
-	-	LOCK SHIELD VALVE
-	-	GATE VALVE
-	-	GLOBE VALVE
-	-	TEE DOWN
-	-	ELBOW DOWN
-	-	TEE UP
-	-	ELBOW UP
-	-	CENTRIC REDUCER
-	-	ECCENTRIC REDUCER
-	-	OS&Y GATE VALVE

SYMBOL	ABBREVIATION	DESCRIPTION
-	-	PIPE GUIDE
-	-	PIPE ANCHOR
-	-	STRAINER
-	-	BASKET STRAINER
-	-	PRESSURE REDUCING VALVE
-	-	FLOW ARROW
-	-	BUTTERFLY VALVE
-	-	BALANCING VALVE
-	-	MANUAL AIR VENT
-	-	SOLENOID VALVE
-	-	MOTORIZED VALVE
-	-	ANGLE GLOBE VALVE
-	-	ANGLE GATE VALVE
-	-	T&P RELIEF VALVE
-	-	FILTER DRYER
-	-	FILTER
-	-	FLOAT AND THERMOSTATIC TRAP
-	-	FLOAT TRAP
-	-	BALL VALVE
-	-	PRESSURE GAGE
-	-	TERMOMETER
-	-	CHECK VALVE
-	-	UNION
-	EX.	EXISTING TO REMAIN
-	REL.	REMOVE AND RELOCATE
-	NEW	NEW WORK
-	DEM.	EXISTING TO BE REMOVED
-	CD	CONDENSATE DRAIN
-	HWS	HOT WATER SUPPLY
-	HWR	HOT WATER RETURN
-	PD	PUMP DISCHARGE, CONDENSATE
-	RL	REFRIGERANT LIQUID
-	RS	REFRIGERANT SUCTION
-	HG	REFRIGERANT HOT GAS
-	T	THERMOSTAT
-	H	HUMIDISTAT
-	M	MOTORIZED DAMPER
-	S	SMOKE DETECTOR
-	U	DOOR UNDER CUT
-	L	DOOR LOUVER
-	I	AIR INTO REGISTER
-	S	SPEED CONTROLLER
-	PC	POINT OF CONNECTION DISCONNECTION
-	TR	TOP REGISTER SUPPLY
-	TR	TOP REGISTER RETURN
-	UH	UNIT HEATER
-	CUH	CABINET UNIT HEATER
-	P-1	PUMP
-	SR	SUPPLY REGISTER
-	CD	1-WAY
-	CD	2-WAY
-	CD	2-WAY
-	CD	3-WAY
-	CD	4-WAY
-	LD	LINEAR DIFFUSER
-	RR/RG	RETURN REGISTER/GRILLE
-	VAV	VAV BOX
-	VAV	VAV BOX WITH REHEAT
-	CV	CONSTANT VOLUME BOX
-	-	SUPPLY DUCT UP
-	-	SUPPLY DUCT DOWN
-	-	RETURN DUCT UP
-	-	RETURN DUCT DOWN
-	-	TRANSITION FROM SQUARE TO ROUND DUCT
-	-	TRANSITION
-	-	DUCT DROP
-	-	DUCT RISE
-	-	SQUARE VANED ELBOW
-	-	DUCT RISE
-	-	DUCT DROP
-	-	DUCT TRANSITION
-	-	ALUMINUM DUCT
-	AL	ACOUSTIC LINING
-	FD/AD	FIRE DAMPER W/ ACCESS DOOR
-	SD/AD	SMOKE DAMPER W/ ACCESS DOOR

SYMBOL	ABBREVIATION	DESCRIPTION
-	CFS	COMBINATION FIRE/SMOKE DAMPER W/ ACCESS DOOR
-	VD	VOLUME DAMPER
-	AL	ACOUSTIC LINING
-	-	DUCT SIZE - 1ST FIGURE IS SIDE SHOWN
-	FC	FLEXIBLE CONNECTION
-	-	ALUMINUM DUCT
-	-	SECTION CALLOUT
-	CP	CONDENSATE PUMP
-	EF	EXHAUST FAN
-	P	PUMP
-	RF	RETURN FAN
-	RH	REHEAT COIL
-	TH	TOILET EXHAUST FAN
-	UH	UNIT HEATER
-	VAV	VARIABLE AIR VOLUME BOX

GENERAL NOTES

- CONTRACT DRAWINGS, AS FAR AS THEY RELATE TO THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT, SHEET METAL, AND PIPING, SHALL BE UNDERSTOOD AS DIAGRAMMATIC. ANY CHANGES TO EQUIPMENT, SHEET METAL, AND PIPING LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST, AND MUST BE APPROVED BY THE ENGINEER.
- THE MECHANICAL CONTRACTOR SHALL INSTALL FIRE DAMPERS WITH ACCESS DOORS IN ALL DUCTS PENETRATING FIRE RATED WALLS, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
- THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL VOLUME DAMPERS IN DUCTWORK AS REQUIRED TO BALANCE THE AIRFLOW AT ALL REGISTERS AND DIFFUSERS TO THE CFMS INDICATED ON PLAN, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
- PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
- ACOUSTICALLY LINE ALL TRANSFER DUCTS. ACOUSTIC LINING SHALL BE 1" THICK. PROVIDE RETURN REGISTERS AT TRANSFER DUCT INLETS & OUTLETS LOCATED BELOW THE CEILING, OR IN AREAS WITH NO CEILING.
- DUCT-MOUNTED SMOKE DETECTORS AND SAMPLING TUBES SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL INSTALL EACH SAMPLING TUBE IN THE DUCTWORK. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE EACH SMOKE DETECTOR. THE MECHANICAL CONTRACTOR SHALL NOT BRANCH OFF ANY DUCT REQUIRING A DUCT SMOKE DETECTOR BEFORE THE DUCT SMOKE DETECTOR. LOCATE SMOKE DETECTORS IN SERVICEABLE AREAS, NOT IN SHAFTS.
- ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE MECHANICAL CONTRACTOR FOR HVAC EQUIPMENT SHALL BE HEAVY DUTY TYPE.
- THE MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE BEGINNING OF WORK, AND SHALL COORDINATE ALL WORK WITH OTHER TRADES.
- DUCT DIMENSIONS SHOWN ON MECHANICAL DRAWINGS REFER TO INSIDE CLEAR DUCT DIMENSIONS. WHERE DUCTWORK IS LINED, THE MECHANICAL CONTRACTOR SHALL INCREASE THE SIZE OF DUCT TO COMPENSATE FOR LINING.
- LOCATE THERMOSTATS AND TEMPERATURE SENSORS 5'-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE LOCATION WITH FURNITURE, CABINETS, ETC. PROVIDE LOCKABLE COVERS FOR ALL NEW THERMOSTATS WITH TEMPERATURE SETPOINT RANGE LOCKED TO ±2°F.
- COORDINATE DUCTWORK, GRILLE, DIFFUSER AND REGISTER LOCATIONS WITH LIGHTS, SPRINKLER HEADS, SMOKE DETECTORS, AND THE ARCHITECTURAL PLANS.
- THE MECHANICAL CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPOSITE SHOP DRAWING, FULLY COORDINATED WITH ALL OTHER TRADES, INDICATING DUCTWORK, PLUMBING AND SPRINKLER PIPING, SMOKE DETECTORS, LIGHTS, CONDUITS, SMOKE DETECTORS, DIFFUSERS, GRILLES, ETC.
- ALL WORK SHALL COMPLY WITH STATE BUILDING CODE, LOCAL BUILDING CODE, AND ENERGY CODE REQUIREMENTS. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
- DURING CONSTRUCTION, ALL OPEN OR INCOMPLETE DUCTWORK SHALL BE CAPPED AIRTIGHT WITH WITH HEAVY POLYETHYLENE PLASTIC. AFTER THE INSTALLATION OF DUCTWORK, REGISTERS, GRILLES, AND DIFFUSERS, THE CONTRACTOR SHALL BLANK OFF ALL REGISTERS, GRILLES, AND DIFFUSERS WITH HEAVY POLYETHYLENE PLASTIC AND TAPE AIR TIGHT, IN AREAS THAT ARE UNDER CONSTRUCTION, UNTIL WORK IS COMPLETE IN THOSE AREAS. FLOOR REGISTERS AND GRILLES SHALL ALSO BE COVERED WITH 1/8" MASONITE.
- WHEN GENERAL CONSTRUCTION IS COMPLETE, VACUUM CLEAN ALL DIFFUSERS, REGISTERS, GRILLES, AND HVAC EQUIPMENT IN THE PROJECT AREA OR SERVING THE PROJECT AREA. REMOVE ANY CONSTRUCTION DEBRIS. REPLACE ALL AIR FILTERS WITH NEW.
- THE OWNER'S PERMANENT HVAC EQUIPMENT SHALL NOT BE USED BY ANY CONTRACTOR DURING CONSTRUCTION FOR TEMPORARY HEATING, COOLING, OR VENTILATION. IF TEMPORARY HEATING, COOLING, OR VENTILATION IS REQUIRED AT ANY POINT DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY HEATING, COOLING, OR VENTILATION EQUIPMENT, DUCTWORK, CONTROLS, AND POWER AT HIS OWN EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.
- WHERE BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF MECHANICAL WORK, INCLUDING THE INSTALLATION OF HANGERS FOR PIPING, DUCTWORK, OR EQUIPMENT, SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
- ALL ROOF WORK ASSOCIATED WITH PENETRATIONS OF MECHANICAL DUCTWORK AND PIPING SHALL BE MADE BY THE BONDED ROOF CONTRACTOR.
- REPLACE FILTERS FOR ALL AIR HANDLING UNITS AFTER CONSTRUCTION IS COMPLETE.
- ALL DUCTWORK SHALL BE PRESSURE TESTED AND INSPECTED PRIOR TO CONCEALMENT IN GENERAL CONSTRUCTION OR INSTALLATION OF HUNG CEILINGS.

ENERGY ANALYSIS		
COMMERCIAL		
WESTOVER MAGNET ELEMENTARY SCHOOL - STAMFORD, CT		
CLIMATE ZONE 5A		
2015 INTERNATIONAL ENERGY CONSERVATION CODE - CHAPTER C6		
ITEM DESCRIPTION	PROPOSED DESIGN VALUE	CODE PRESCRIPTIVE VALUE AND CITATION
NEW INTERIOR SUPPLY AND RETURN AIR DUCTWORK	DUCT INSULATION THICKNESS = 1.5", K = 0.27, R = 6.0	MINIMUM R-6 INSULATION SECTION C403.2.7
NEW DUAL TEMPERATURE PIPING	FOR PIPE DIAMETER ≤ 1.5", INSULATION THICKNESS = 1.5", K=0.27 FOR PIPE DIAMETER > 1.5", INSULATION THICKNESS = 2.0", K=0.27	FOR PIPE DIAMETER ≤ 1.5", MINIMUM INSULATION THICKNESS = 1.5", K=0.27 FOR PIPE DIAMETER > 1.5", MINIMUM INSULATION THICKNESS = 2.0", K=0.27 (TABLE C403.2.8)
NEW PACKAGED ROOFTOP AC UNITS RTU-1, RTU-2, RTU-3, RTU-4, RTU-5, RTU-6, RTU-7, & RTU-8 WITH HW REHEAT	COOLING CAPACITY = 150,000 BTU/H EFFICIENCY = 10.8 EER	135,000 BTU/H ≤ INPUT CAPACITY ≤ 240,000 BTU/H MINIMUM EFFICIENCY = 10.8 EER (TABLE C403.2.3.1)
NEW GAS-FIRED HOT WATER CONDENSING BOILER BLR-1&2	INPUT CAPACITY = 4,000,000 BTU/H THERMAL EFFICIENCY = 96.0%	300,000 BTU/H ≤ INPUT CAPACITY ≤ 2,500,000 BTU/H MINIMUM COMBUSTION EFFICIENCY = 80% MINIMUM THERMAL EFFICIENCY = 75% (TABLE C403.2.3(5))

STATEMENT OF COMPLIANCE:
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE. PROPOSED WORK MEETS THE GUIDELINES AND PRESCRIPTIONS OUTLINED IN THE 2015 IECC.

Westover Magnet Elementary School

City of Stamford - Stamford Public Schools
412 Stillwater Ave, Stamford, CT. 06902

PROJECT # S-6722



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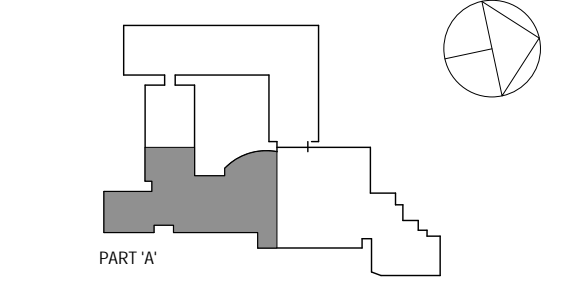
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Sheet Title: **MECHANICAL SYMBOLS, ABBREVIATIONS, AND NOTES**

Job No. NKG0206.00	Date 08/6/2019
Scale AS NOTED	Drawn / Checked
Sheet Number	M001



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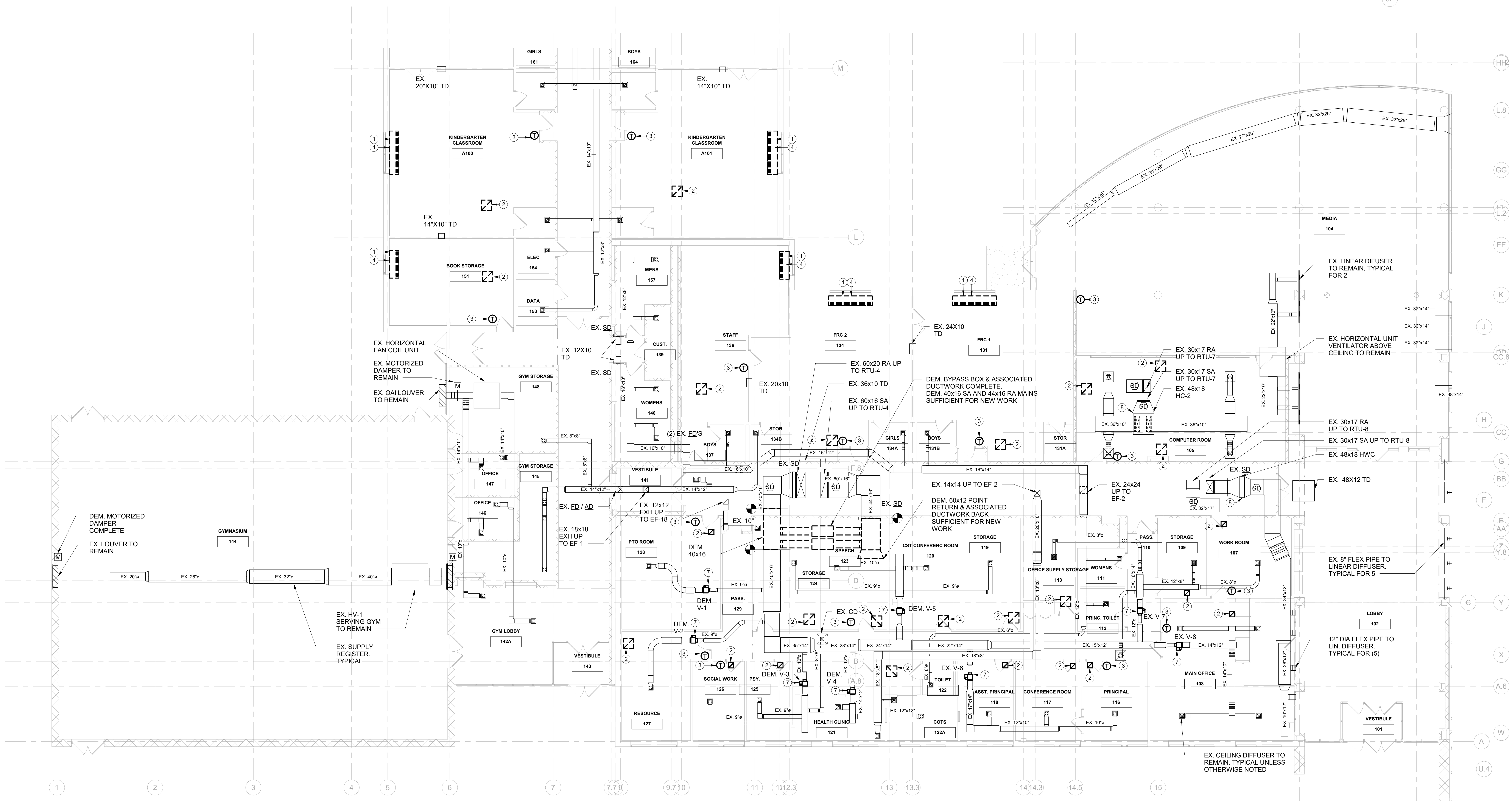
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MECHANICAL 1ST FLOOR PART 'A' DUCTWORK DEMOLITION PLAN

Job No.	KGDO206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author Checker
Sheet Number	M101		



MECHANICAL 1ST FLOOR PART 'A' DUCTWORK DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
NORTH

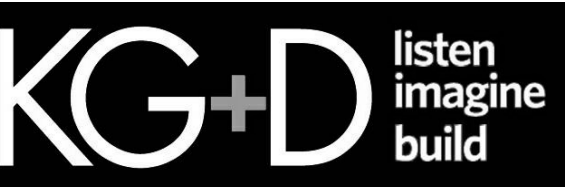
MECHANICAL DEMOLITION GENERAL NOTES	
1	DEMOLISH ALL DUCTWORK INSULATION ON ALL SUPPLY & RETURN DUCTWORK COMPLETE UNLESS OTHERWISE NOTED
2	DEMOLISH ALL DUAL TEMPERATURE SUPPLY & RETURN PIPE INSULATION COMPLETE THROUGHOUT ENTIRE BUILDING

MECHANICAL DEMOLITION KEYNOTES	
1	DEMOLISH UNIT VENTILATOR COMPLETE INCLUDING ALL VALVES, STRAINERS, PRESSURE /TEMPERATURE PORTS, CONDENSATE DRAINS & CONTROLS WIRING. DEMOLISH ASSOCIATED DTS&R PIPING SUFFICIENT FOR RECONNECTION DURING NEW WORK PHASE.
2	DEMOLISH AIR OUTLETS / INLETS LOCATED IN ALL CEILINGS BEING DEMOLISHED. DISCONNECT FROM EXISTING BRANCH DUCTWORK SUFFICIENT FOR NEW WORK PHASE. COORDINATE WITH ARCHITECTURAL RCP.
3	DEMOLISH THERMOSTAT COMPLETE INCLUDING ALL ASSOCIATED CONTROLS WIRING
4	REPAIR EXTERIOR PENETRATION COMPLETE TO PROVIDE AIR AND WATERTIGHT SEAL. COORDINATE WITH ARCHITECTURAL DRAWINGS.
5	EXISTING CABINET UNIT HEATER TO REMAIN. DEMOLISH CONTROL VALVE AND ASSOCIATED CONTROLS WIRING COMPLETE. DEMOLISH HWS&R PIPING SUFFICIENT FOR NEW WORK.
6	EXISTING FIN TUBE RADIATOR TO REMAIN. DEMOLISH CONTROL VALVE AND ASSOCIATED CONTROLS WIRING COMPLETE. DEMOLISH HWS&R PIPING SUFFICIENT FOR NEW WORK.
7	DEMOLISH VAV WITH REHEAT COIL COMPLETE. DEMOLISH CONTROL VALVE AND ASSOCIATED CONTROLS WIRING COMPLETE
8	EXISTING HOT WATER COIL TO REMAIN. DEMOLISH CONTROL VALVE AND ASSOCIATED CONTROLS WIRING COMPLETE
9	EXISTING UNIT HEATER TO REMAIN. DEMOLISH CONTROL VALVE AND ASSOCIATED CONTROLS WIRING COMPLETE

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PROJECT # S-6722

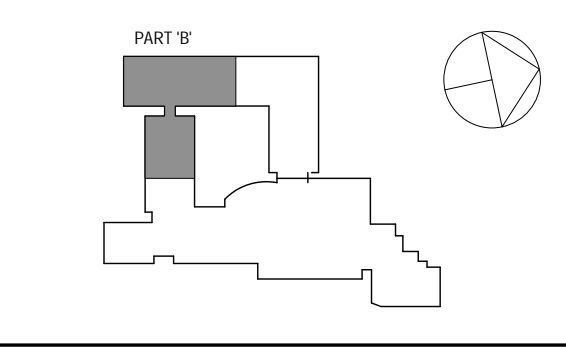


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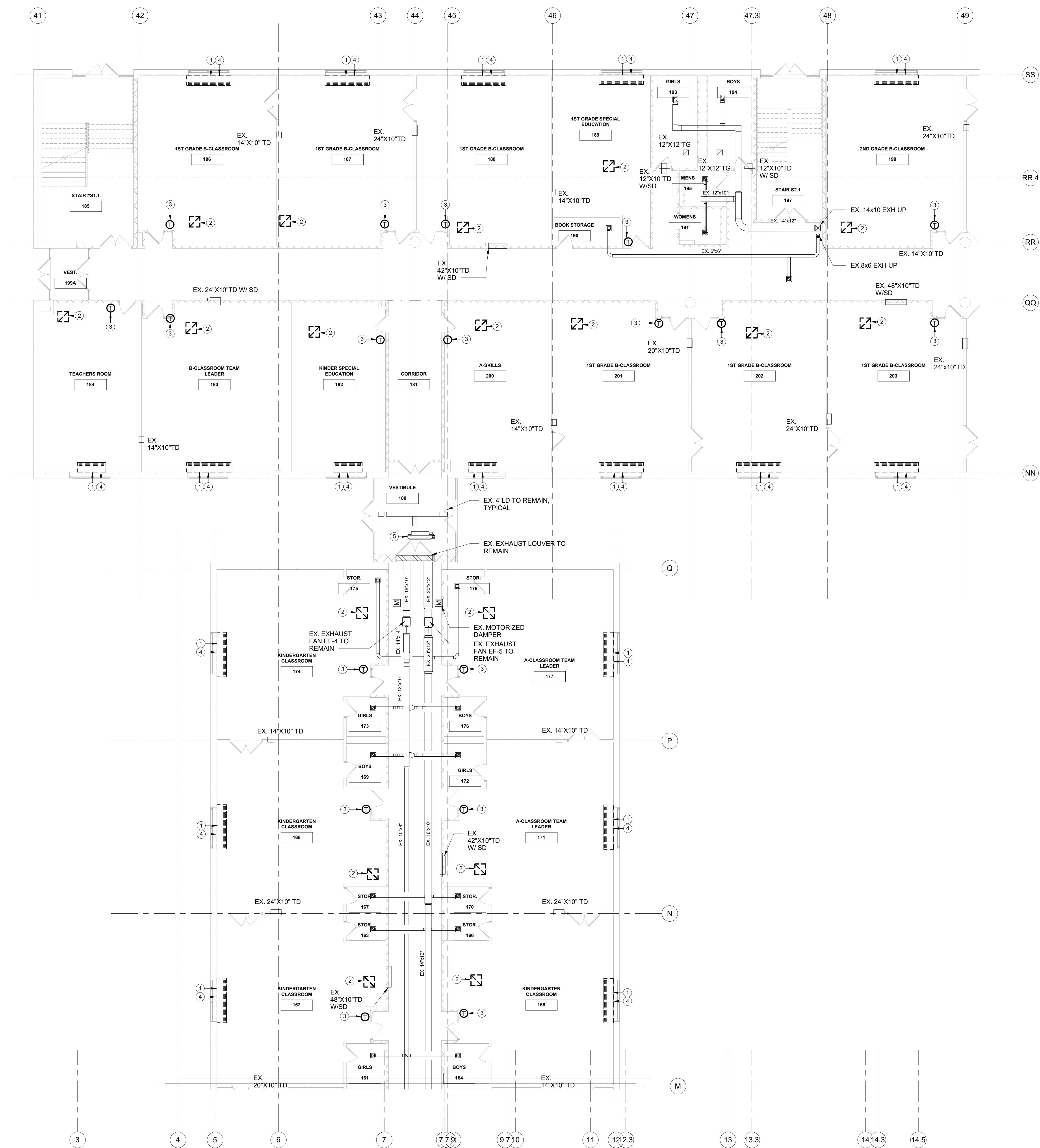
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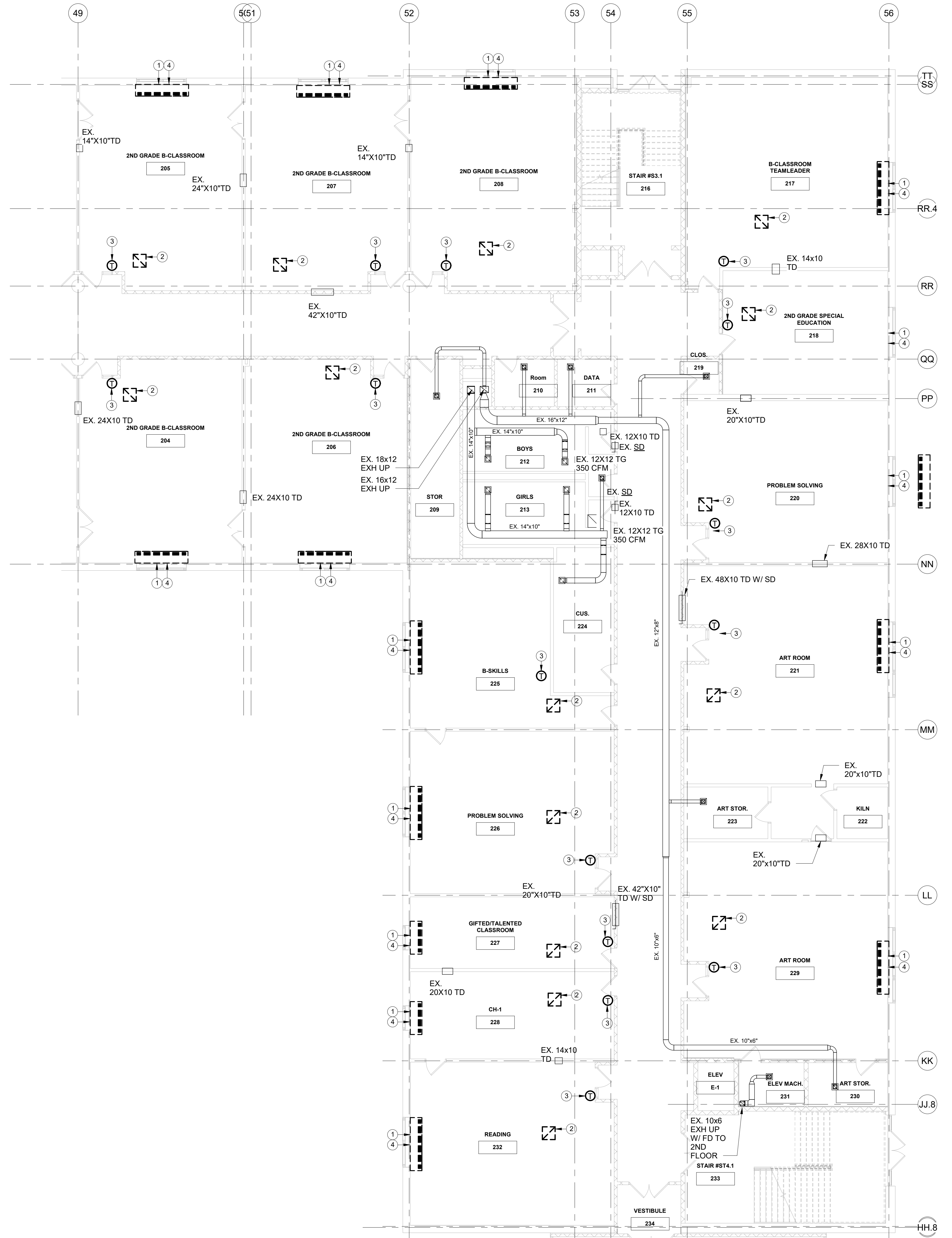
MECHANICAL DEMOLITION GENERAL NOTES	
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MECHANICAL DEMOLITION KEYNOTES	
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2	DEMOLISH AIR OUTLETS / INLETS LOCATED IN ALL CEILINGS BEING DEMOLISHED. DISCONNECT FROM EXISTING BRANCH DUCTWORK SUFFICIENT FOR NEW WORK PHASE. COORDINATE WITH ARCHITECTURAL RCP.
3	DEMOLISH THERMOSTAT COMPLETE INCLUDING ALL ASSOCIATED CONTROLS WIRING
4	REPAIR EXTERIOR PENETRATION COMPLETE TO PROVIDE AIR AND WATERTIGHT SEAL. COORDINATE WITH ARCHITECTURAL DRAWINGS.
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9	EXISTING UNIT HEATER TO REMAIN. DEMOLISH CONTROL VALVE AND ASSOCIATED CONTROLS WIRING COMPLETE

MECHANICAL 1ST FLOOR PART 'B' DUCTWORK DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
NORTH

MECHANICAL 1ST FLOOR PART 'B' DUCTWORK DEMOLITION PLAN

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author Checker
Sheet Number	M102		

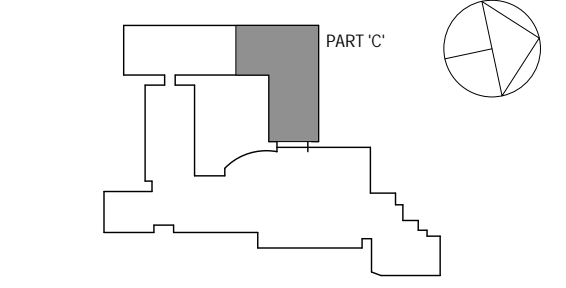


MECHANICAL 1ST FLOOR PART 'C' DUCTWORK DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
NORTH

MECHANICAL DEMOLITION GENERAL NOTES	
1	DEMOLISH ALL DUCTWORK INSULATION ON ALL SUPPLY & RETURN DUCWORK COMPLETE UNLESS OTHERWISE NOTED
2	DEMOLISH ALL DUAL TEMPERATURE SUPPLY & RETURN PIPE INSULATION COMPLETE THROUGHOUT ENTIRE BUILDING

MECHANICAL DEMOLITION KEYNOTES	
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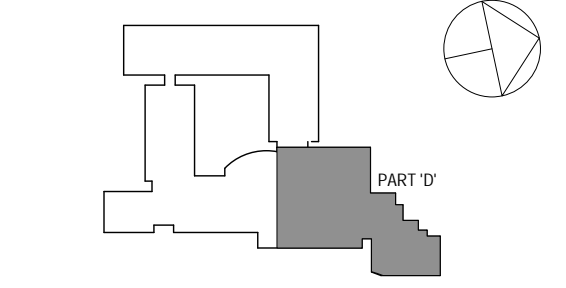
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MECHANICAL 1ST FLOOR PART 'C' DUCTWORK DEMOLITION PLAN

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2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING
No.	Date	Issue

MECHANICAL 1ST FLOOR PART 'D' DUCTWORK DEMOLITION PLAN

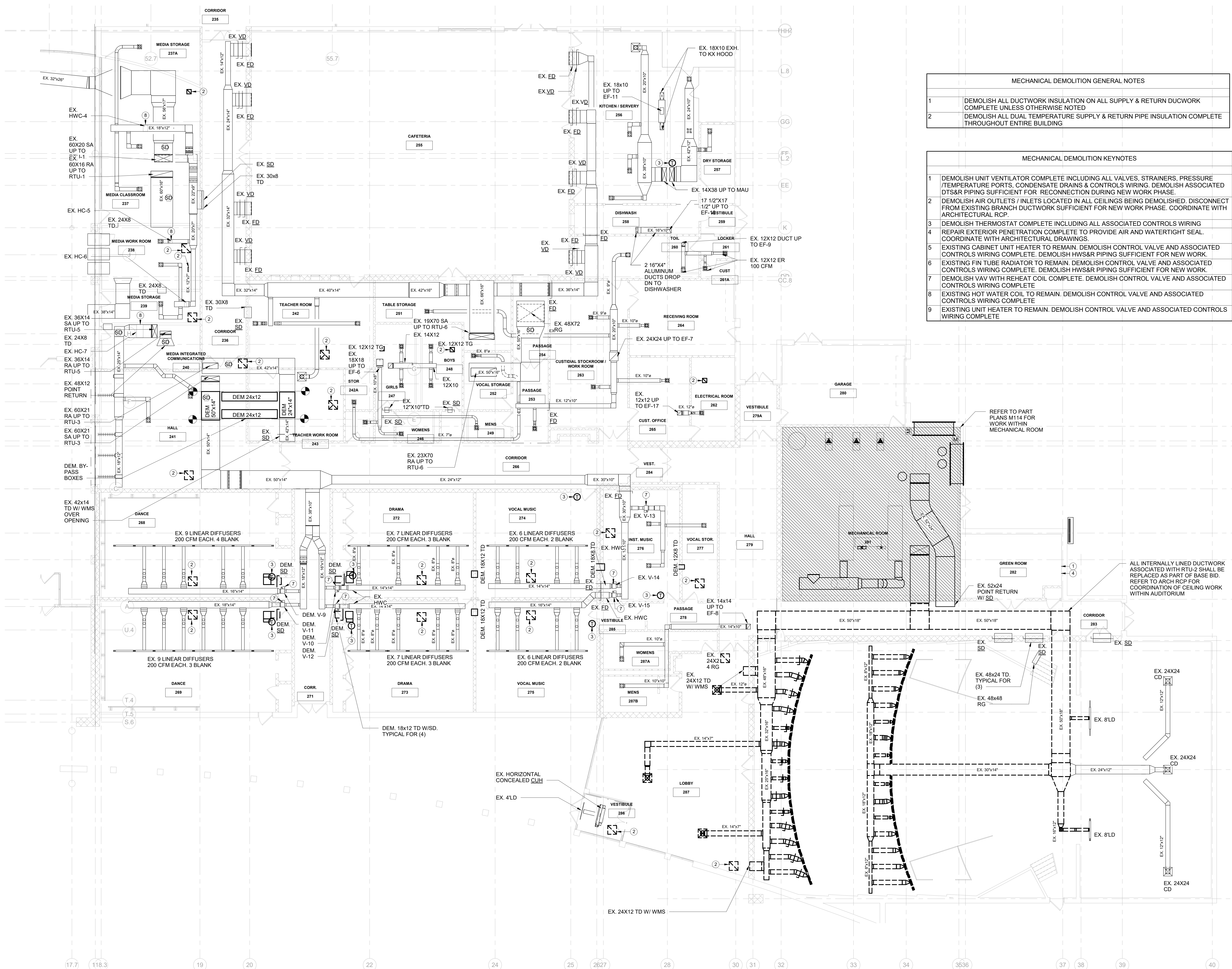
Job No.	NKGD0206.00	Date	08/06/2019
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Sheet Number	M104		

- MECHANICAL DEMOLITION GENERAL NOTES
- DEMOLISH ALL DUCTWORK INSULATION ON ALL SUPPLY & RETURN DUCTWORK COMPLETE UNLESS OTHERWISE NOTED
 - DEMOLISH ALL DUAL TEMPERATURE SUPPLY & RETURN PIPE INSULATION COMPLETE THROUGHOUT ENTIRE BUILDING

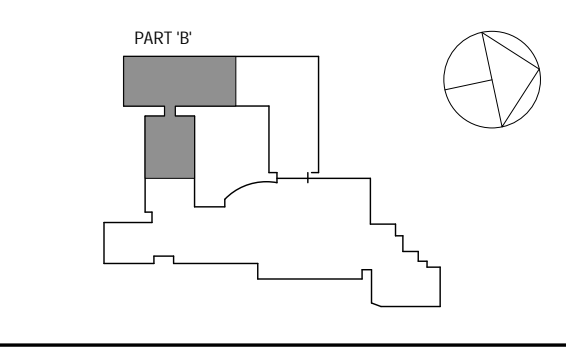
- MECHANICAL DEMOLITION KEYNOTES
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REFER TO PART PLANS M114 FOR WORK WITHIN MECHANICAL ROOM

ALL INTERNALLY LINED DUCTWORK ASSOCIATED WITH RTU-2 SHALL BE REPLACED AS PART OF BASE BID. REFER TO ARCH RCP FOR COORDINATION OF CEILING WORK WITHIN AUDITORIUM



MECHANICAL 1ST FLOOR PART 'D' DUCTWORK DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
NORTH



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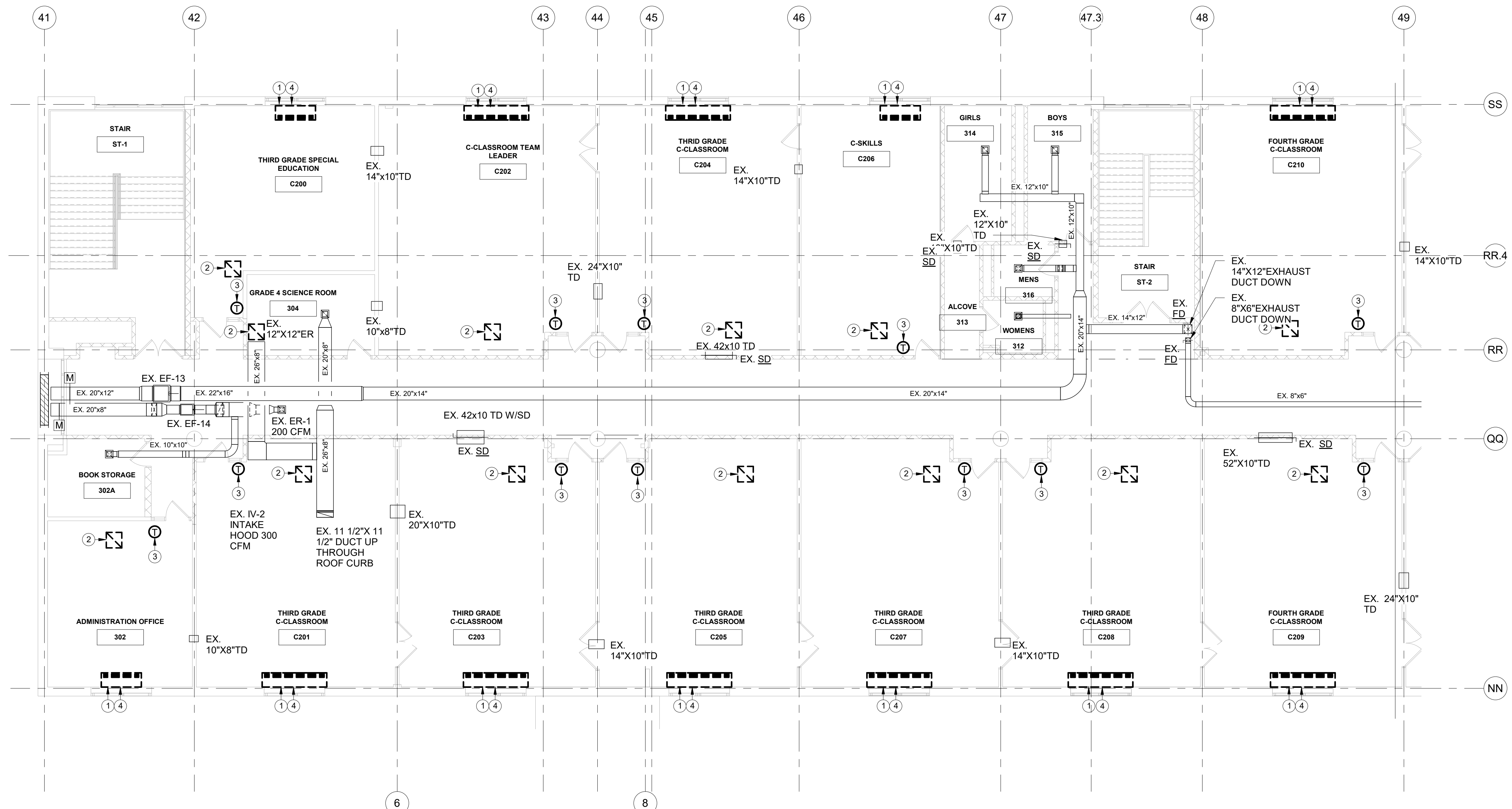
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No.	Date	Issue
3	8/6/2019	ISSUED FOR BID
2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING

MECHANICAL 2ND FLOOR PART 'B' DUCTWORK DEMOLITION PLAN

Job No.	NKGD0206.00	Date	08/06/2019
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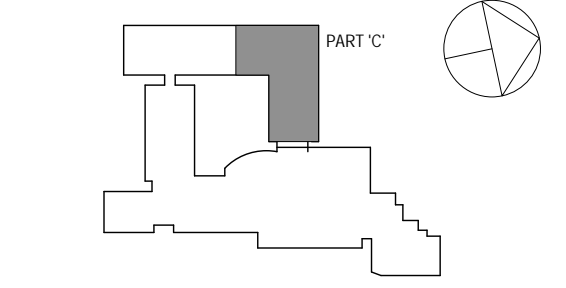
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M105



MECHANICAL 2ND FLOOR PART 'B' DUCTWORK DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
NORTH

MECHANICAL DEMOLITION GENERAL NOTES	
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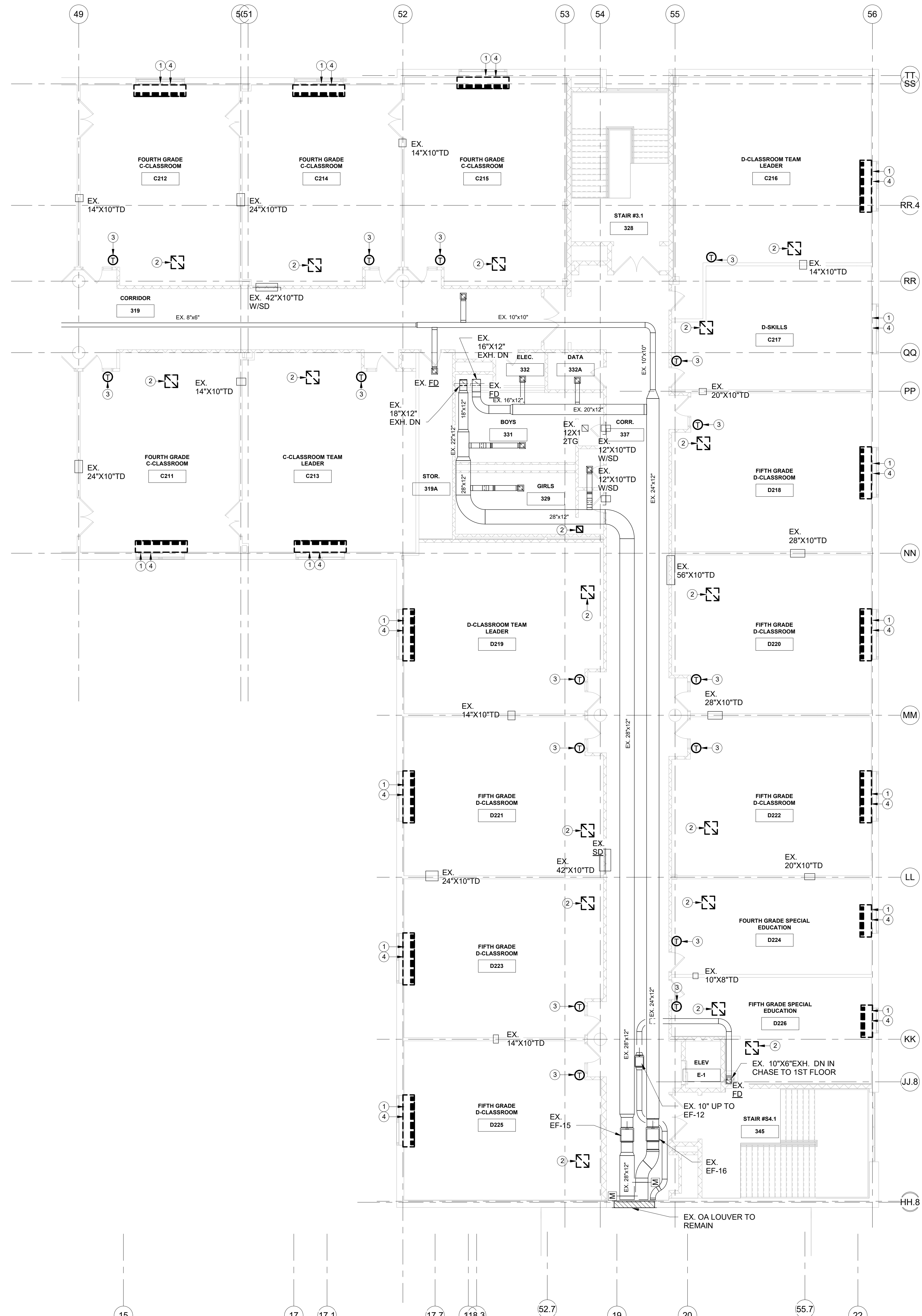
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MECHANICAL 2ND FLOOR PART 'C' DUCTWORK DEMOLITION PLAN

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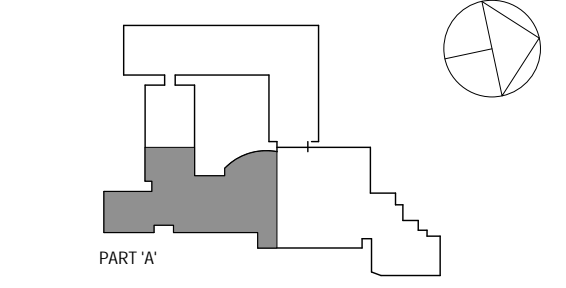
Sheet Number
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MECHANICAL DEMOLITION GENERAL NOTES	
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MECHANICAL 2ND FLOOR PART 'C' DUCTWORK DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
NORTH



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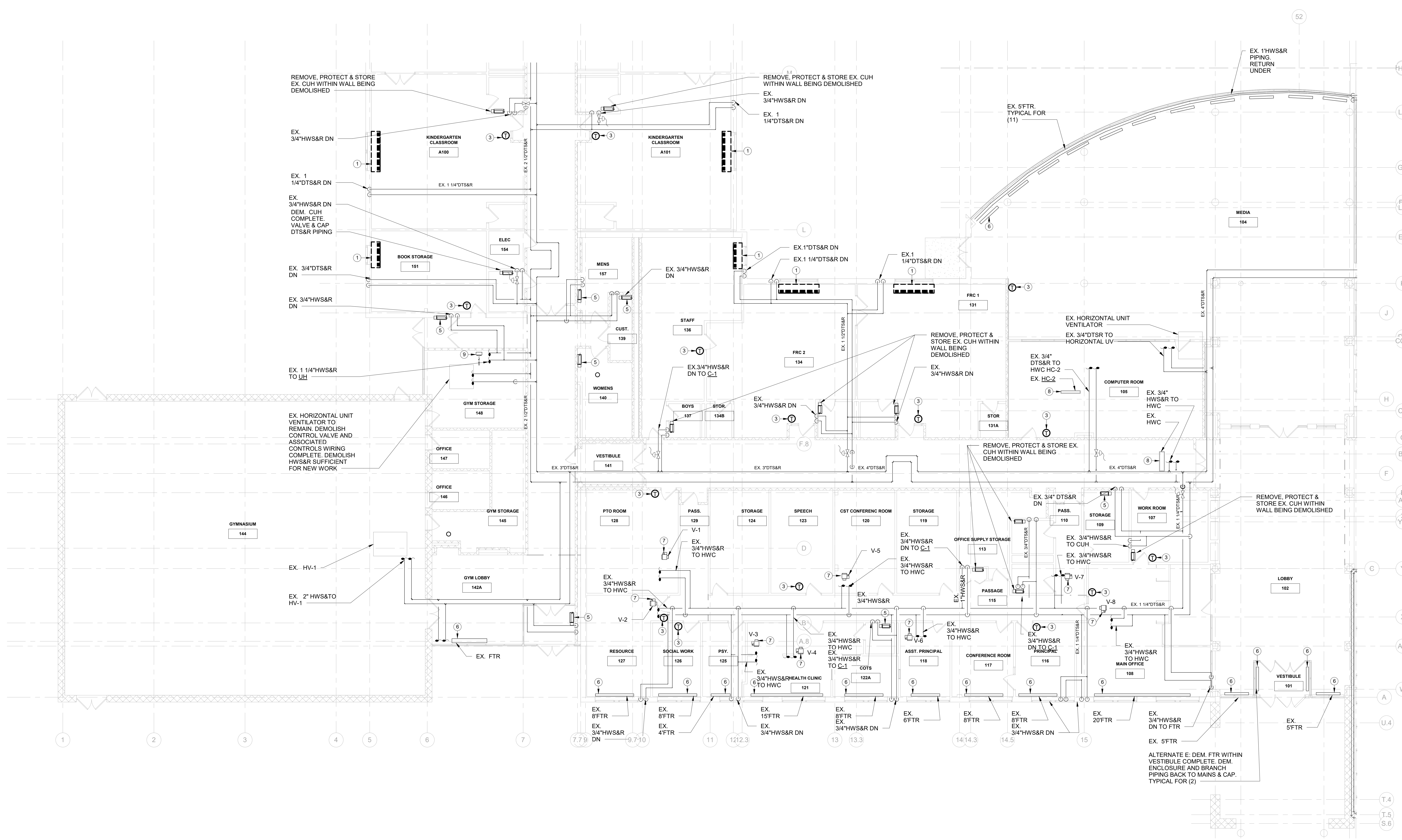
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MECHANICAL 1ST FLOOR PART 'A' PIPING DEMOLITION PLAN

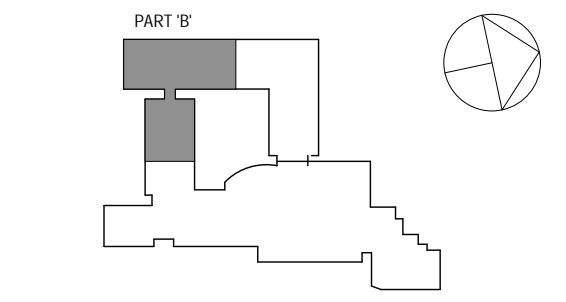
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MECHANICAL 1ST FLOOR PART 'A' PIPING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
NORTH

MECHANICAL DEMOLITION GENERAL NOTES	
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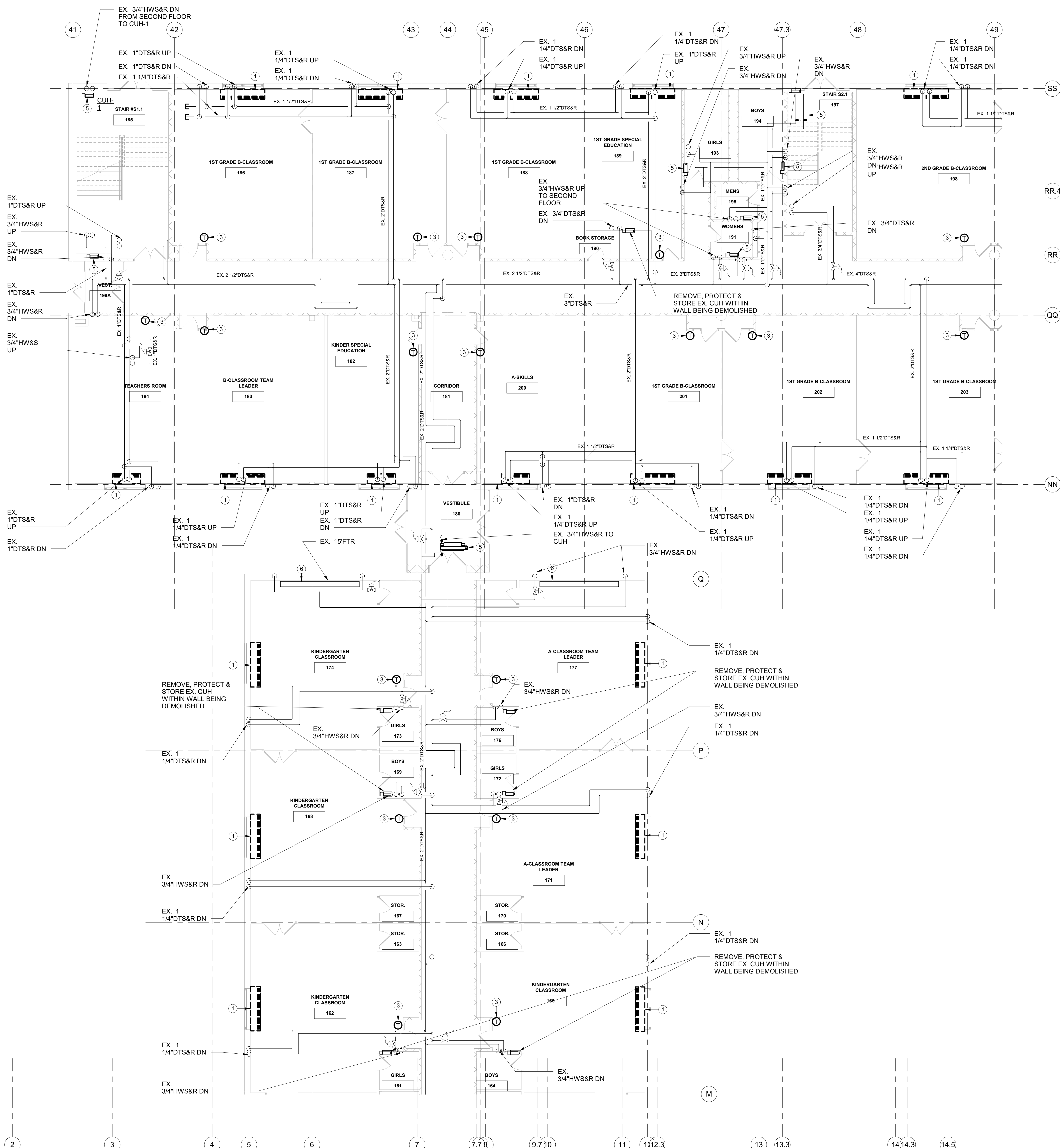
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MECHANICAL 1ST FLOOR PART 'B' PIPING DEMOLITION PLAN

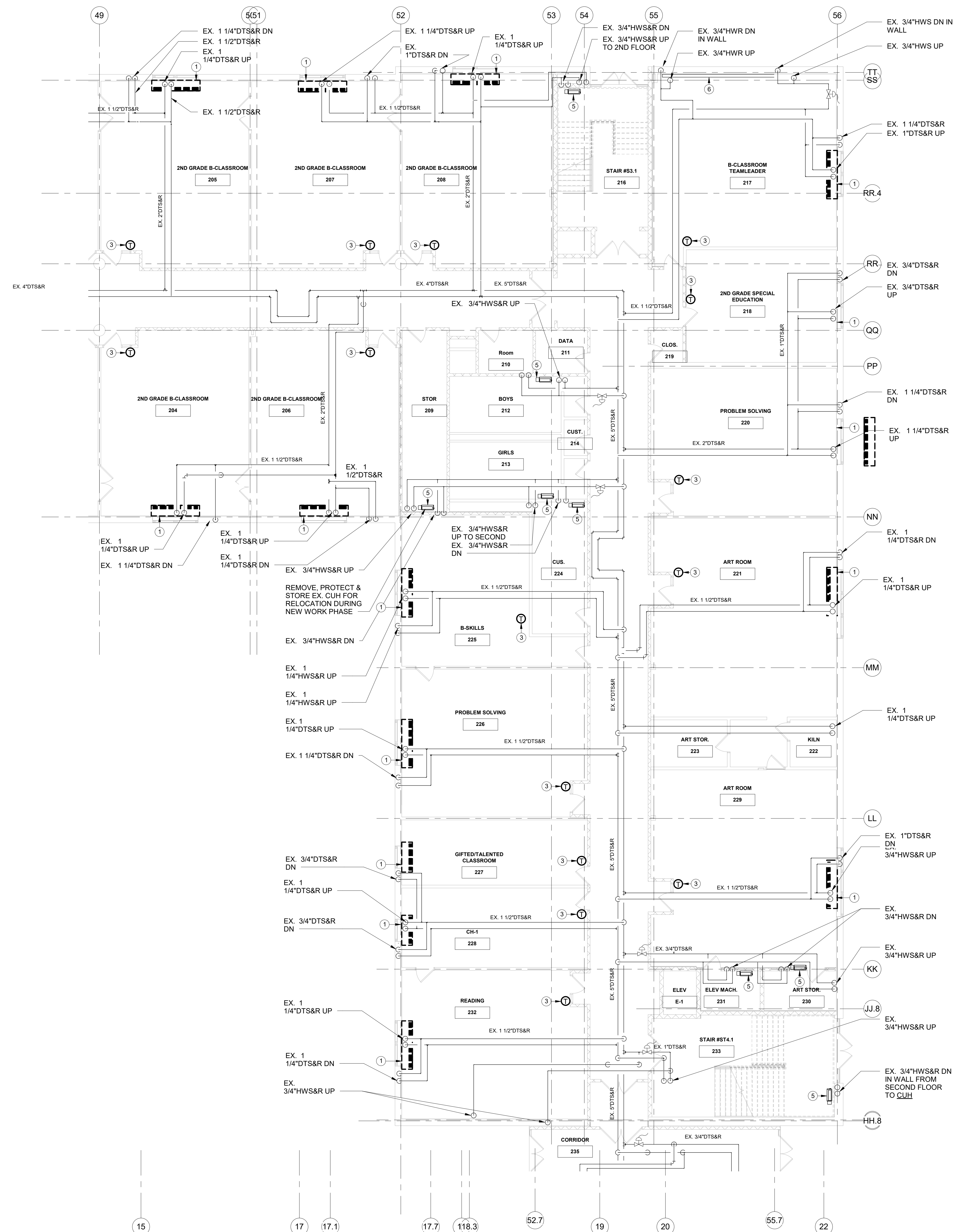
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Sheet Number	M108		



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MECHANICAL 1ST FLOOR PART 'B' PIPING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
NORTH



MECHANICAL 1ST FLOOR PART 'C' PIPING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

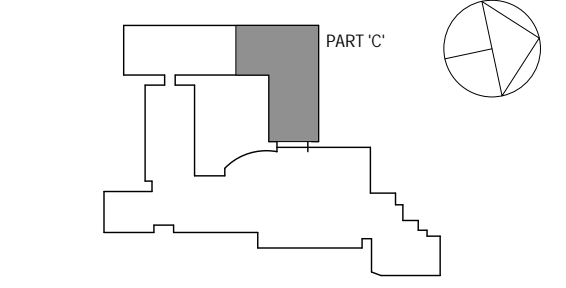
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MECHANICAL DEMOLITION KEYNOTES

1	DEMOLISH UNIT VENTILATOR COMPLETE INCLUDING ALL VALVES, STRAINERS, PRESSURE /TEMPERATURE PORTS, CONDENSATE DRAINS & CONTROLS WIRING. DEMOLISH ASSOCIATED DTS&R PIPING SUFFICIENT FOR RECONNECTION DURING NEW WORK PHASE.
2	DEMOLISH AIR OUTLETS / INLETS LOCATED IN ALL CEILINGS BEING DEMOLISHED. DISCONNECT FROM EXISTING BRANCH DUCTWORK SUFFICIENT FOR NEW WORK PHASE. COORDINATE WITH ARCHITECTURAL RCP.
3	DEMOLISH THERMOSTAT COMPLETE INCLUDING ALL ASSOCIATED CONTROLS WIRING
4	REPAIR EXTERIOR PENETRATION COMPLETE TO PROVIDE AIR AND WATERTIGHT SEAL. COORDINATE WITH ARCHITECTURAL DRAWINGS.
5	EXISTING CABINET UNIT HEATER TO REMAIN. DEMOLISH CONTROL VALVE AND ASSOCIATED CONTROLS WIRING COMPLETE. DEMOLISH HWS&R PIPING SUFFICIENT FOR NEW WORK.
6	EXISTING FIN TUBE RADIATOR TO REMAIN. DEMOLISH CONTROL VALVE AND ASSOCIATED CONTROLS WIRING COMPLETE. DEMOLISH HWS&R PIPING SUFFICIENT FOR NEW WORK.
7	DEMOLISH VAV WITH REHEAT COIL COMPLETE. DEMOLISH CONTROL VALVE AND ASSOCIATED CONTROLS WIRING COMPLETE
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9	EXISTING UNIT HEATER TO REMAIN. DEMOLISH CONTROL VALVE AND ASSOCIATED CONTROLS WIRING COMPLETE

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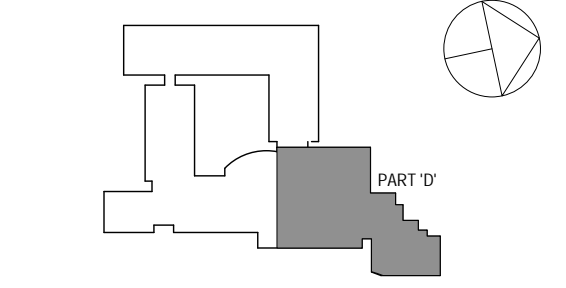


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MECHANICAL 1ST FLOOR PART 'C' PIPING DEMOLITION PLAN

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2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING
No.	Date	Issue

MECHANICAL 1ST FLOOR PART 'D' PIPING DEMOLITION PLAN

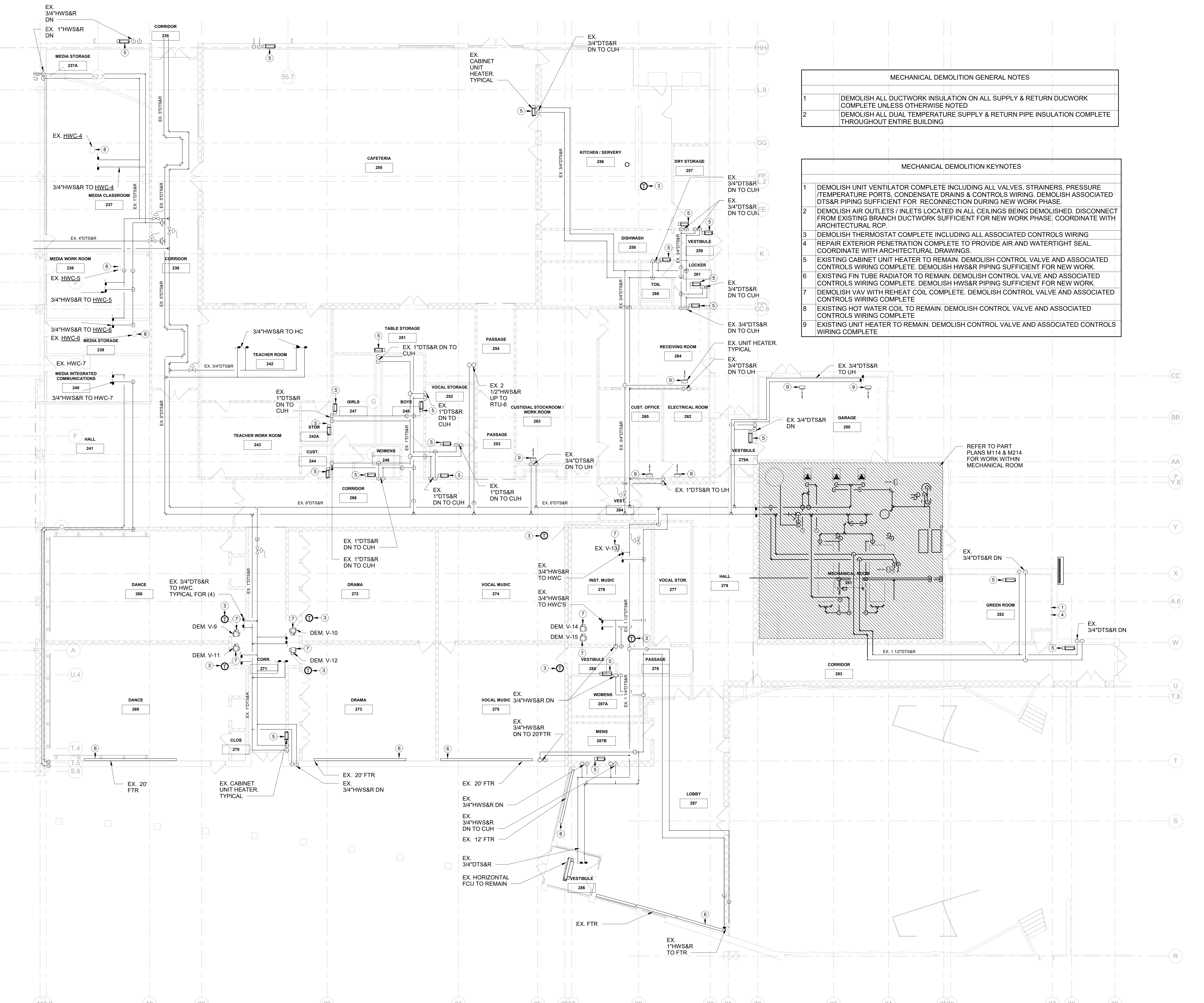
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MECHANICAL DEMOLITION GENERAL NOTES

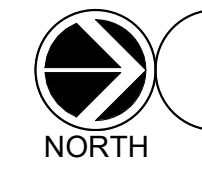
- DEMOLISH ALL DUCTWORK INSULATION ON ALL SUPPLY & RETURN DUCTWORK COMPLETE UNLESS OTHERWISE NOTED
- DEMOLISH ALL DUAL TEMPERATURE SUPPLY & RETURN PIPE INSULATION COMPLETE THROUGHOUT ENTIRE BUILDING

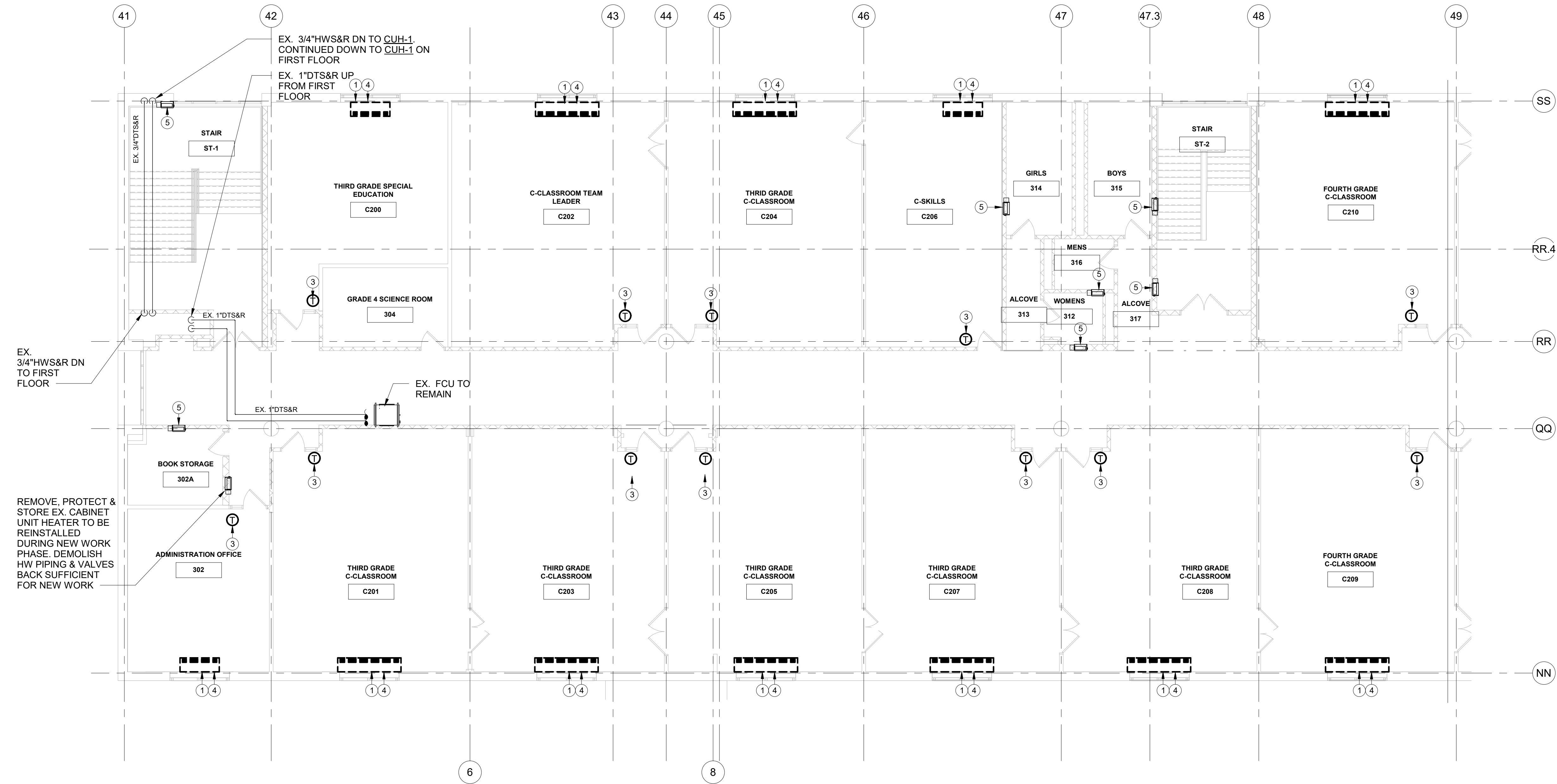
MECHANICAL DEMOLITION KEYNOTES

- DEMOLISH UNIT VENTILATOR COMPLETE INCLUDING ALL VALVES, STRAINERS, PRESSURE /TEMPERATURE PORTS, CONDENSATE DRAINS & CONTROLS WIRING. DEMOLISH ASSOCIATED DTS&R PIPING SUFFICIENT FOR RECONNECTION DURING NEW WORK PHASE.
- DEMOLISH AIR OUTLETS / INLETS LOCATED IN ALL CEILINGS BEING DEMOLISHED. DISCONNECT FROM EXISTING BRANCH DUCTWORK SUFFICIENT FOR NEW WORK PHASE. COORDINATE WITH ARCHITECTURAL RCP.
- DEMOLISH THERMOSTAT COMPLETE INCLUDING ALL ASSOCIATED CONTROLS WIRING
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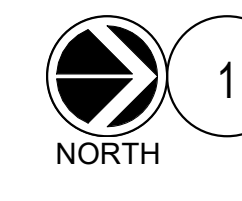


MECHANICAL 1ST FLOOR PART 'D' PIPING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"





REMOVE, PROTECT & STORE EX. CABINET UNIT HEATER TO BE REINSTALLED DURING NEW WORK PHASE. DEMOLISH HW PIPING & VALVES BACK SUFFICIENT FOR NEW WORK

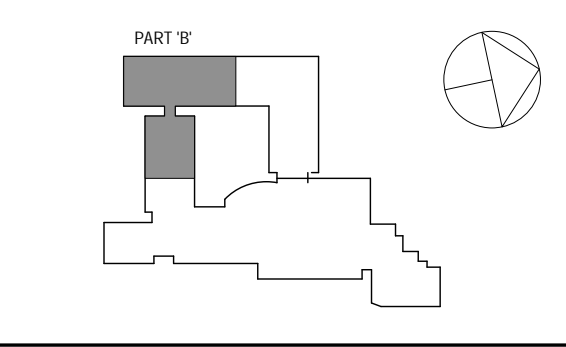


MECHANICAL 2ND FLOOR PART 'B' PIPING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

MECHANICAL DEMOLITION GENERAL NOTES	
1	DEMOLISH ALL DUCTWORK INSULATION ON ALL SUPPLY & RETURN DUCWORK COMPLETE UNLESS OTHERWISE NOTED
2	DEMOLISH ALL DUAL TEMPERATURE SUPPLY & RETURN PIPE INSULATION COMPLETE THROUGHOUT ENTIRE BUILDING

MECHANICAL DEMOLITION KEYNOTES	
1	DEMOLISH UNIT VENTILATOR COMPLETE INCLUDING ALL VALVES, STRAINERS, PRESSURE /TEMPERATURE PORTS, CONDENSATE DRAINS & CONTROLS WIRING. DEMOLISH ASSOCIATED DTS&R PIPING SUFFICIENT FOR RECONNECTION DURING NEW WORK PHASE.
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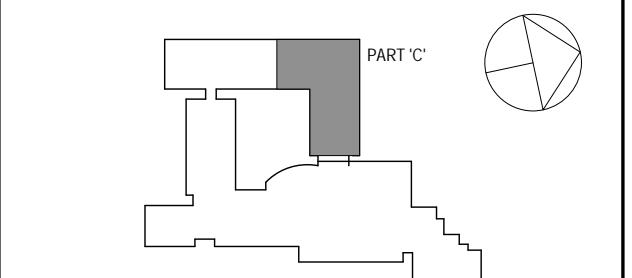
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2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING

MECHANICAL 2ND FLOOR PART 'B' PIPING DEMOLITION PLAN

Job No.	NKGD0206.00	Date	08/06/2019
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Sheet Number
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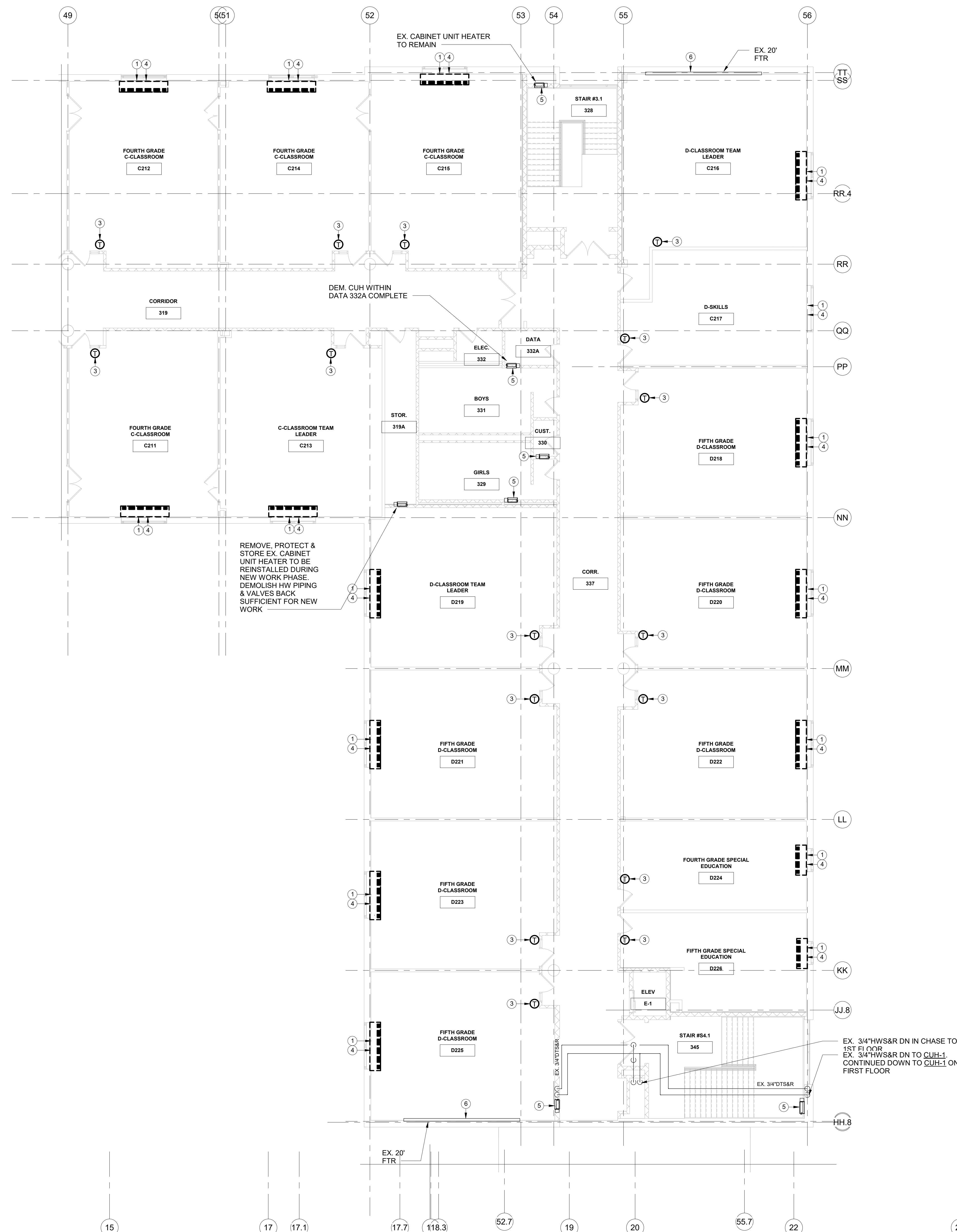


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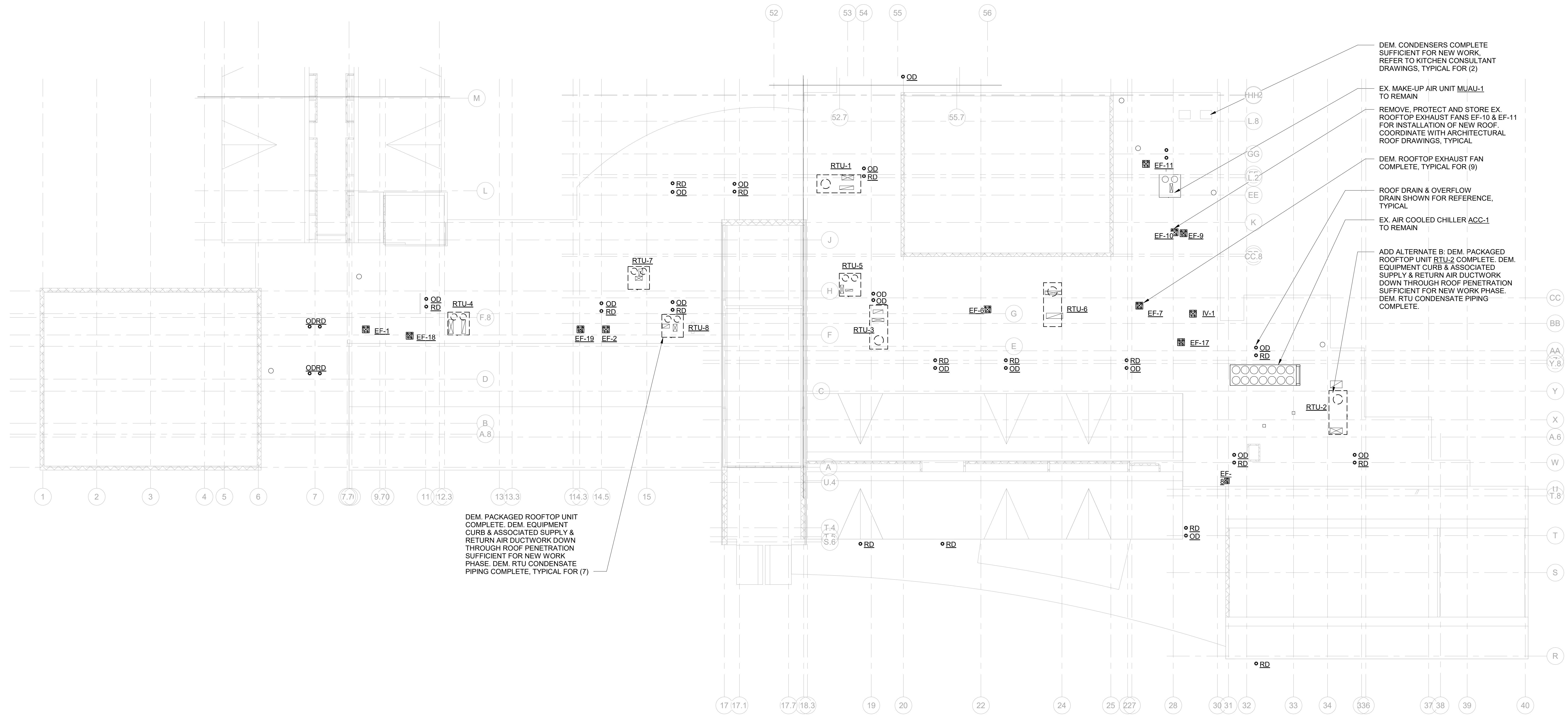
MECHANICAL DEMOLITION GENERAL NOTES	
1	DEMOLISH ALL DUCTWORK INSULATION ON ALL SUPPLY & RETURN DUCTWORK COMPLETE UNLESS OTHERWISE NOTED
2	DEMOLISH ALL DUAL TEMPERATURE SUPPLY & RETURN PIPE INSULATION COMPLETE THROUGHOUT ENTIRE BUILDING

MECHANICAL DEMOLITION KEYNOTES	
1	DEMOLISH UNIT VENTILATOR COMPLETE INCLUDING ALL VALVES, STRAINERS, PRESSURE /TEMPERATURE PORTS, CONDENSATE DRAINS & CONTROLS WIRING. DEMOLISH ASSOCIATED DTS&R PIPING SUFFICIENT FOR RECONNECTION DURING NEW WORK PHASE.
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9	EXISTING UNIT HEATER TO REMAIN. DEMOLISH CONTROL VALVE AND ASSOCIATED CONTROLS WIRING COMPLETE

MECHANICAL 2ND FLOOR PART 'C' PIPING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"
NORTH

MECHANICAL 2ND FLOOR PART 'C' PIPING DEMOLITION PLAN

Job No.	NKGD0206.00	Date	08/09/2019
Scale	AS NOTED	Drawn / Checked	Author Checker
Sheet Number	M112		

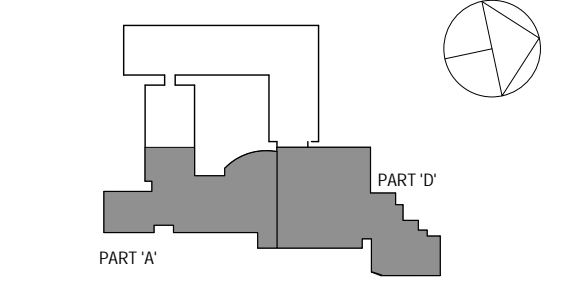


- DEM. CONDENSERS COMPLETE SUFFICIENT FOR NEW WORK REFER TO KITCHEN CONSULTANT DRAWINGS, TYPICAL FOR (2)
- EX. MAKE-UP AIR UNIT MUAU-1 TO REMAIN
- REMOVE, PROTECT AND STORE EX. ROOFTOP EXHAUST FANS EF-10 & EF-11 FOR INSTALLATION OF NEW ROOF. COORDINATE WITH ARCHITECTURAL ROOF DRAWINGS, TYPICAL
- DEM. ROOFTOP EXHAUST FAN COMPLETE, TYPICAL FOR (9)
- ROOF DRAIN & OVERFLOW DRAIN SHOWN FOR REFERENCE, TYPICAL
- EX. AIR COOLED CHILLER ACC-1 TO REMAIN
- ADD ALTERNATE B: DEM. PACKAGED ROOFTOP UNIT RTU-2 COMPLETE. DEM. EQUIPMENT CURB & ASSOCIATED SUPPLY & RETURN AIR DUCTWORK DOWN THROUGH ROOF PENETRATION SUFFICIENT FOR NEW WORK PHASE. DEM. RTU CONDENSATE PIPING COMPLETE.

MECHANICAL ROOF DEMOLITION PLAN
SCALE: 1/16" = 1'-0"

MECHANICAL DEMOLITION GENERAL NOTES	
1	DEMOLISH ALL DUCTWORK INSULATION ON ALL SUPPLY & RETURN DUCWORK COMPLETE UNLESS OTHERWISE NOTED
2	DEMOLISH ALL DUAL TEMPERATURE SUPPLY & RETURN PIPE INSULATION COMPLETE THROUGHOUT ENTIRE BUILDING

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2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING

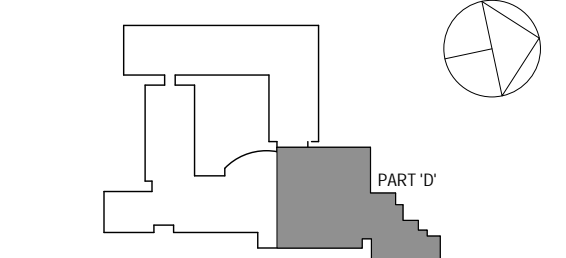
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MECHANICAL ROOF DEMOLITION PLAN

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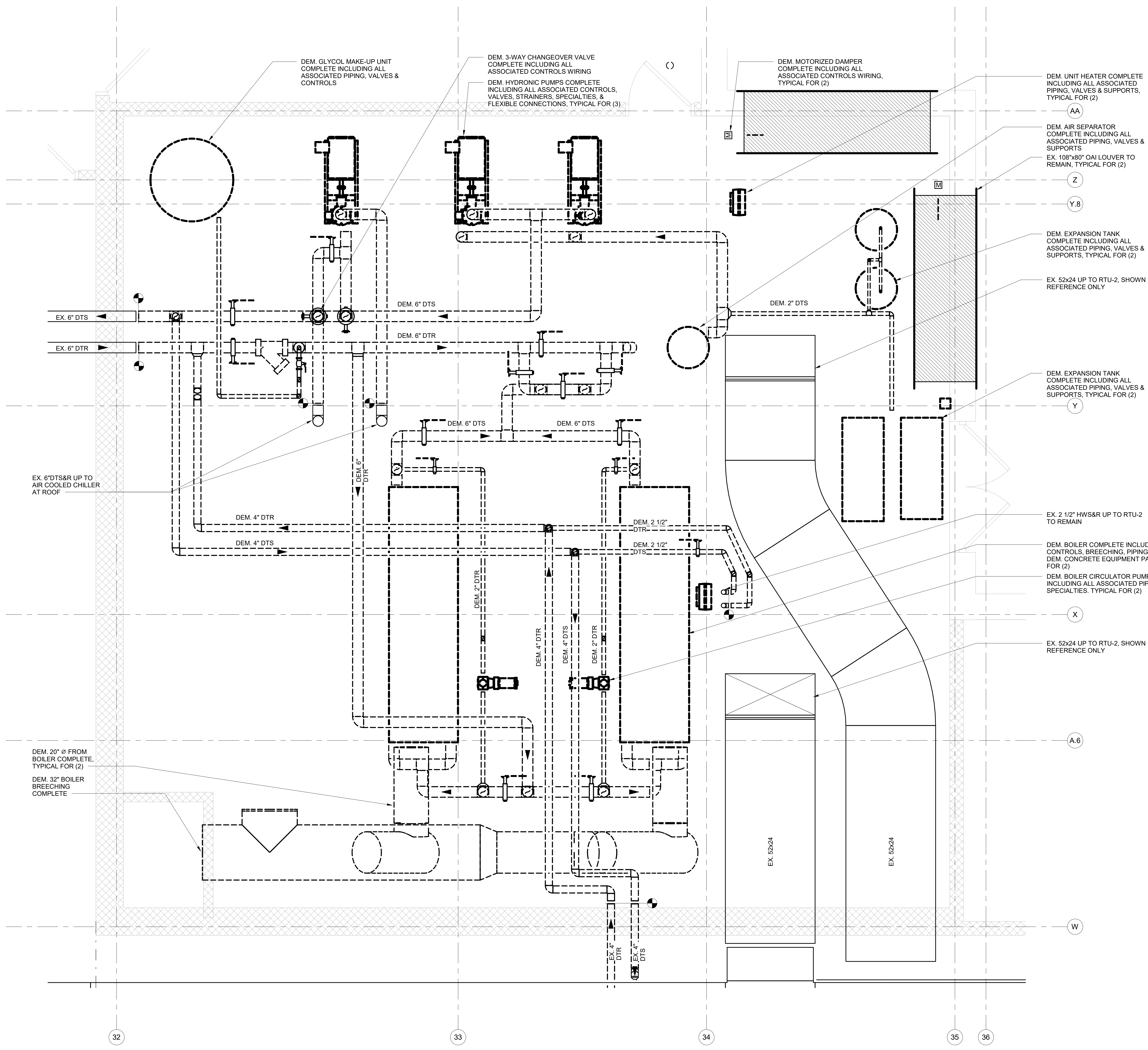
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No.	Date	Issue

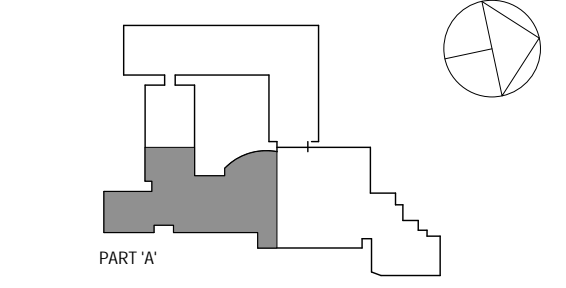
MECHANICAL BOILER ROOM DEMOLITION PLAN - ALTERNATE A

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author Checker
Sheet Number	M114A		



MECHANICAL BOILER ROOM DEMOLITION PLAN - ALTERNATE A
SCALE: 1/2" = 1'-0"
NORTH

MECHANICAL DEMOLITION GENERAL NOTES	
1	DEMOLISH ALL DUCTWORK INSULATION ON ALL SUPPLY & RETURN DUCWORK COMPLETE UNLESS OTHERWISE NOTED
2	DEMOLISH ALL DUAL TEMPERATURE SUPPLY & RETURN PIPE INSULATION COMPLETE THROUGHOUT ENTIRE BUILDING



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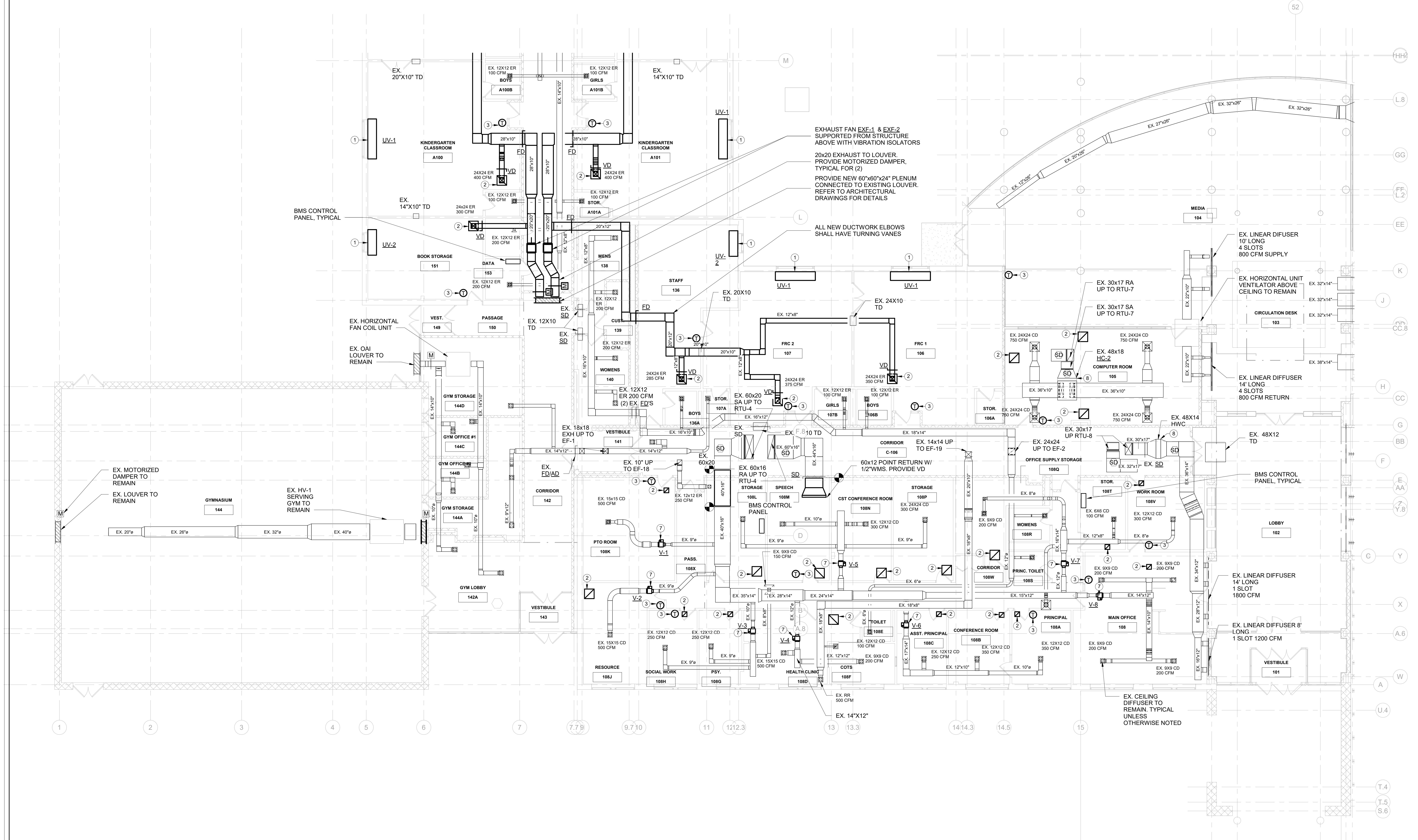
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Professional Seal

MECHANICAL 1ST FLOOR PART 'A' DUCTWORK NEW WORK PLAN

Job No. NKGD0206.00 Date 08/08/2019
Scale AS NOTED Drawn / Checked Author Checker

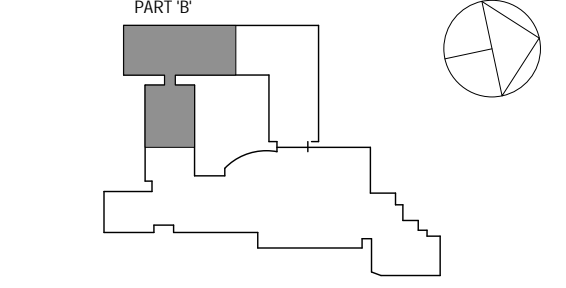
Sheet Number **M201**



MECHANICAL 1ST FLOOR PART 'A' DUCTWORK NEW WORK PLAN
SCALE: 1/8" = 1'-0"
NORTH

MECHANICAL NEW WORK GENERAL NOTES	
1	PROVIDE NEW DUCTWORK INSULATION ON ALL SUPPLY & RETURN DUCTWORK THROUGHOUT ENTIRE BUILDING UNLESS OTHERWISE NOTED
2	PROVIDE NEW DUAL TEMPERATURE SUPPLY & RETURN PIPE INSULATION COMPLETE THROUGHOUT ENTIRE BUILDING
3	ALL EXISTING TO REMAIN AIR OUTLETS WITHIN CEILINGS BEING REPLACED SHALL BE REMOVED AND CLEANED AS PER SPECIFICATIONS. TYPICAL UNLESS OTHERWISE NOTED

MECHANICAL NEW WORK KEYNOTES	
1	PROVIDE NEW UNIT VENTILATOR IN LOCATION OF PREVIOUSLY DEMOLISHED UNIT. EXTEND NEW 1 1/4" DTS&R PIPING FROM EX. BRANCHES TO THE UNIT VENTILATOR. PROVIDE NEW PREMIUM PIPING PACKAGE INCLUDING CONTROL VALVE, SHUT-OFF VALVE, STRAINER, BALANCING VALVE & SPECIALTIES. REFER TO MECHANICAL DETAILS.
2	PROVIDE NEW AIR OUTLETS / INLETS AT LOCATION OF PREVIOUSLY DEMOLISHED AIR OUTLET / INLET.
3	PROVIDE NEW THERMOSTAT COMPLETE WITH NEW CONTROLS WIRING TO BE INTEGRATED INTO NEW BMS
4	REPAIR EXTERIOR PENETRATION COMPLETE TO PROVIDE AIR AND WATERTIGHT SEAL. COORDINATE WITH ARCHITECTURAL DRAWINGS.
5	EXISTING CABINET UNIT HEATER TO REMAIN. PROVIDE NEW CONTROL VALVE AND ASSOCIATED CONTROLS WIRING FOR INTEGRATION INTO NEW BMS. REFER TO MECHANICAL DETAILS.
6	EXISTING FIN TUBE RADIATOR TO REMAIN. PROVIDE NEW CONTROL VALVE AND ASSOCIATED CONTROLS WIRING FOR INTEGRATION INTO NEW BMS. REFER TO MECHANICAL DETAILS.
7	PROVIDE NEW VAV WITH REHEAT COIL. PROVIDE NEW CONTROL VALVE AND ASSOCIATED CONTROLS WIRING FOR INTEGRATION INTO NEW BMS. PROVIDE 1" ACOUSTIC LINING DOWNSTREAM OF VAV BOXES. REFER TO MECHANICAL DETAILS.
8	EXISTING HOTWATER COIL TO REMAIN. PROVIDE NEW CONTROL VALVE AND ASSOCIATED CONTROLS WIRING FOR INTEGRATION INTO NEW BMS. REFER TO MECHANICAL DETAILS.
9	EXISTING UNIT HEATER TO REMAIN. PROVIDE NEW CONTROL VALVE AND ASSOCIATED CONTROLS WIRING FOR INTEGRATION INTO NEW BMS. REFER TO MECHANICAL DETAILS.



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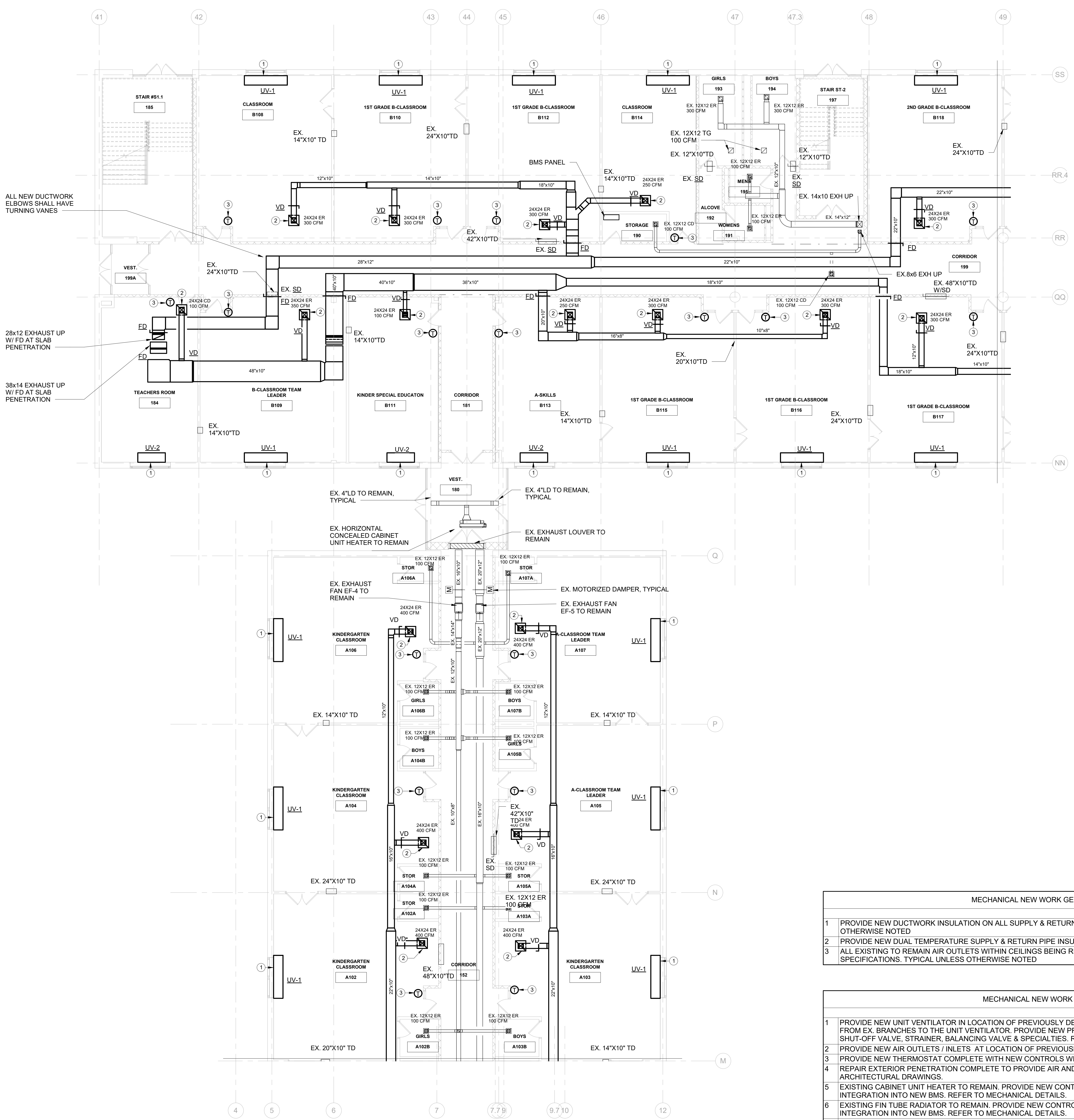
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MECHANICAL NEW WORK GENERAL NOTES	
1	PROVIDE NEW DUCTWORK INSULATION ON ALL SUPPLY & RETURN DUCTWORK THROUGHOUT ENTIRE BUILDING UNLESS OTHERWISE NOTED
2	PROVIDE NEW DUAL TEMPERATURE SUPPLY & RETURN PIPE INSULATION COMPLETE THROUGHOUT ENTIRE BUILDING
3	ALL EXISTING TO REMAIN AIR OUTLETS WITHIN CEILINGS BEING REPLACED SHALL BE REMOVED AND CLEANED AS PER SPECIFICATIONS. TYPICAL UNLESS OTHERWISE NOTED

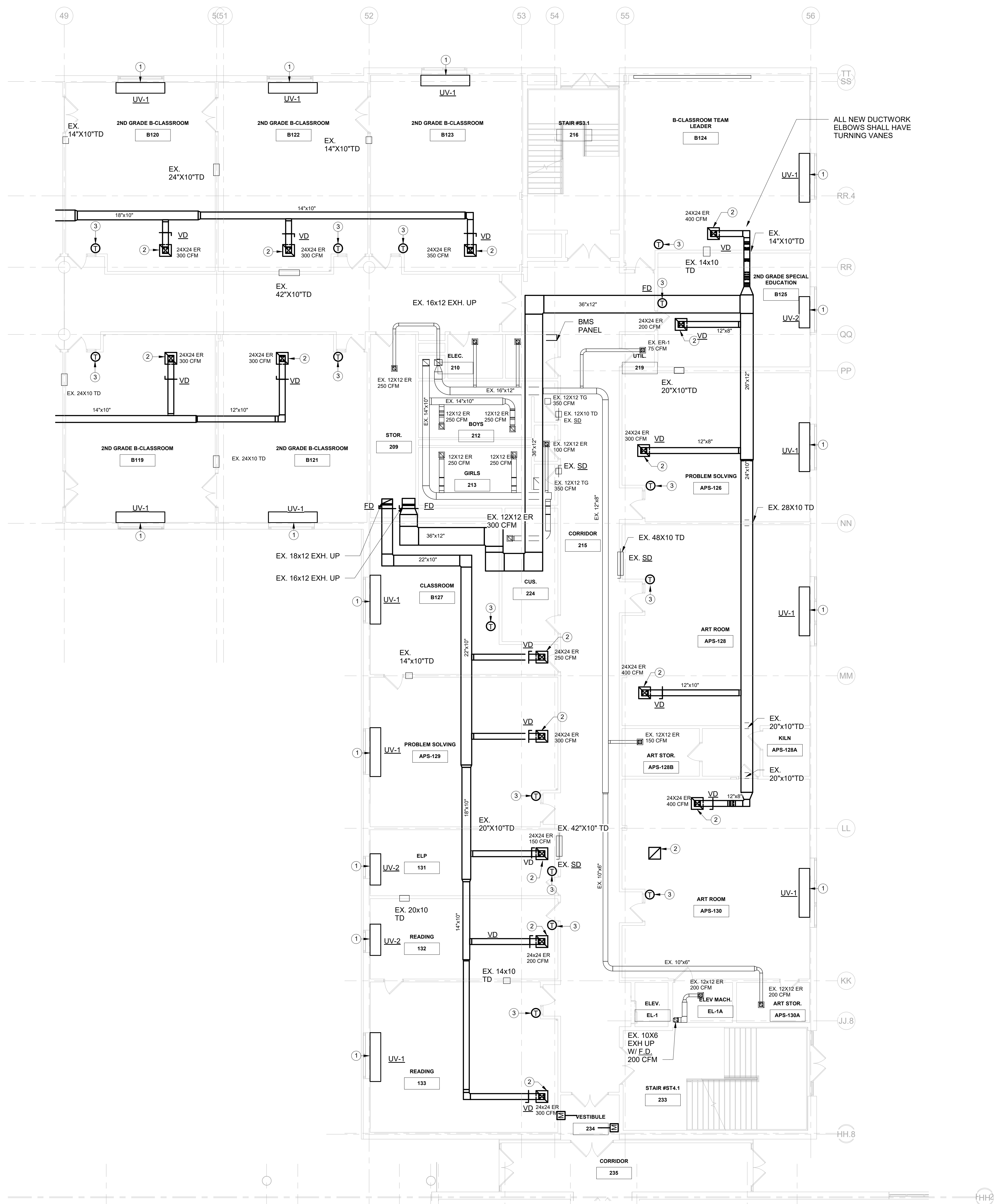
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3	PROVIDE NEW THERMOSTAT COMPLETE WITH NEW CONTROLS WIRING TO BE INTEGRATED INTO NEW BMS
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5	EXISTING CABINET UNIT HEATER TO REMAIN. PROVIDE NEW CONTROL VALVE AND ASSOCIATED CONTROLS WIRING FOR INTEGRATION INTO NEW BMS. REFER TO MECHANICAL DETAILS.
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MECHANICAL 1ST FLOOR PART 'B' DUCTWORK NEW WORK PLAN
SCALE: 1/8" = 1'-0"

MECHANICAL 1ST FLOOR PART 'B' DUCTWORK NEW WORK PLAN

Job No.	NKGD0206.00	Date	08/08/2019
Scale	AS NOTED	Drawn / Checked	Author Checker
Sheet Number	M202		

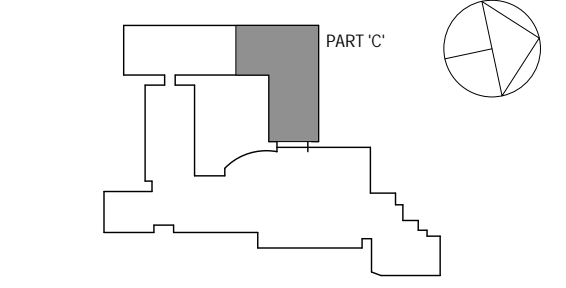


MECHANICAL 1ST FLOOR PART 'C' DUCTWORK NEW WORK PLAN
SCALE: 1/8" = 1'-0"

MECHANICAL NEW WORK GENERAL NOTES	
1	PROVIDE NEW DUCTWORK INSULATION ON ALL SUPPLY & RETURN DUCTWORK THROUGHOUT ENTIRE BUILDING UNLESS OTHERWISE NOTED
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SPN 135-0278RR



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No.	Date	Issue
3	8/6/2019	ISSUED FOR BID
2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING

MECHANICAL 1ST FLOOR PART 'C' DUCTWORK NEW WORK PLAN

Job No.	NKGD0206.00	Date	08/09/2019
Scale	AS NOTED	Drawn / Checked	Author Checker

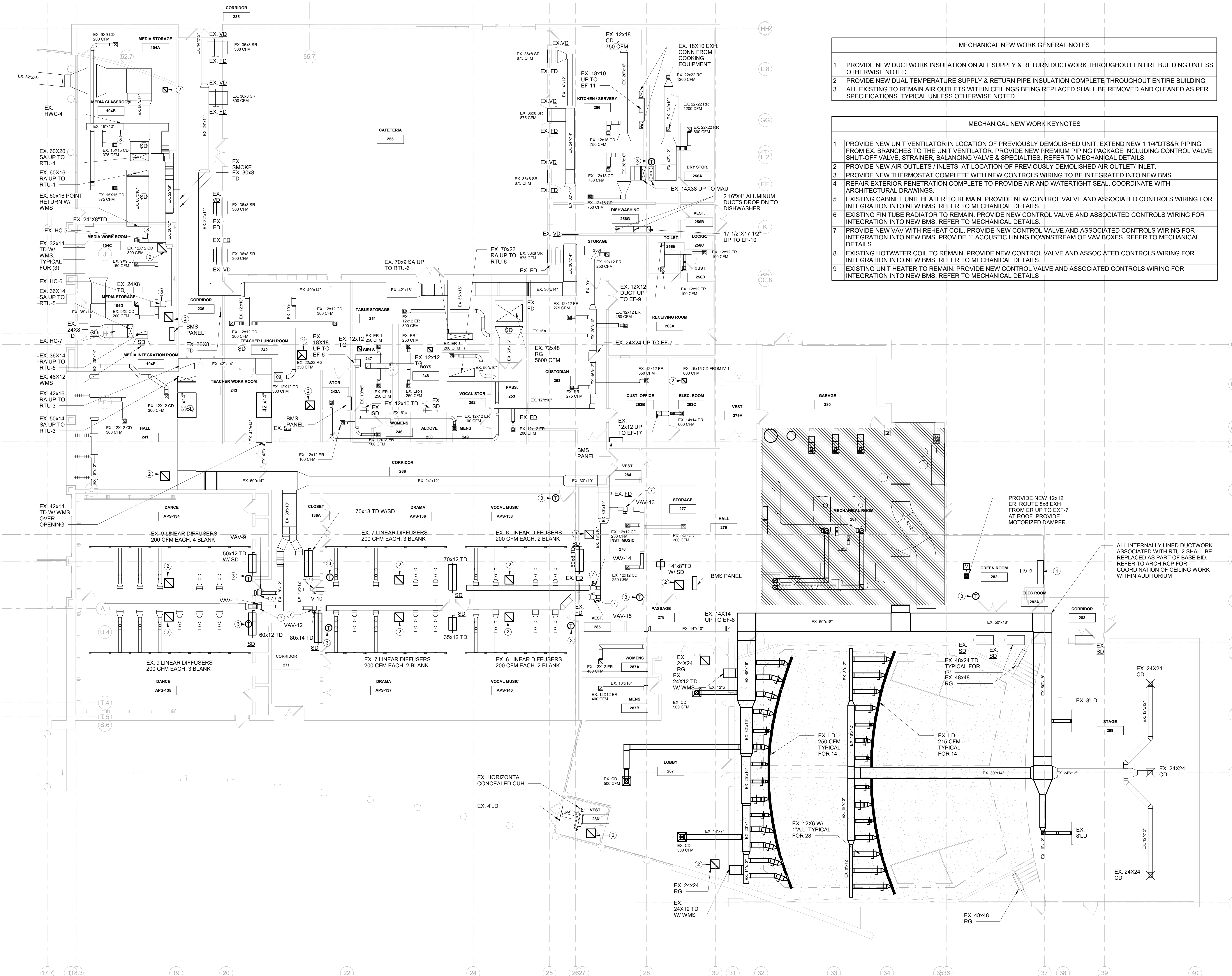
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M203

MECHANICAL NEW WORK GENERAL NOTES

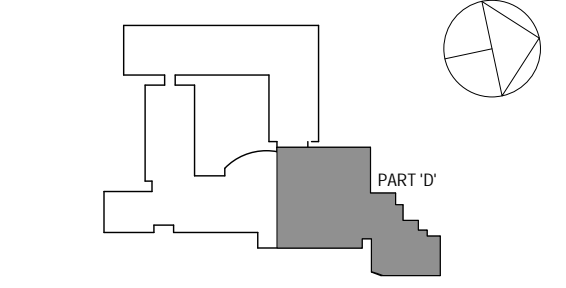
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MECHANICAL NEW WORK KEYNOTES

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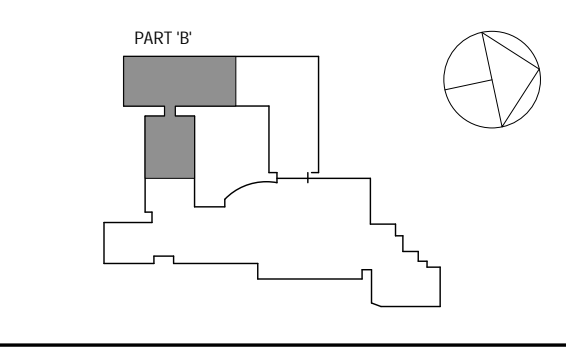
No.	Date	Issue
3	8/6/2019	ISSUED FOR BID
2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING

Sheet Title

MECHANICAL 1ST FLOOR PART 'D' DUCTWORK NEW WORK PLAN

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author / Checker
Sheet Number	M204		

MECHANICAL 1ST FLOOR PART 'D' DUCTWORK NEW WORK PLAN
 SCALE: 1/8" = 1'-0"
 NORTH



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No.	Date	Issue
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2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING

Sheet Title

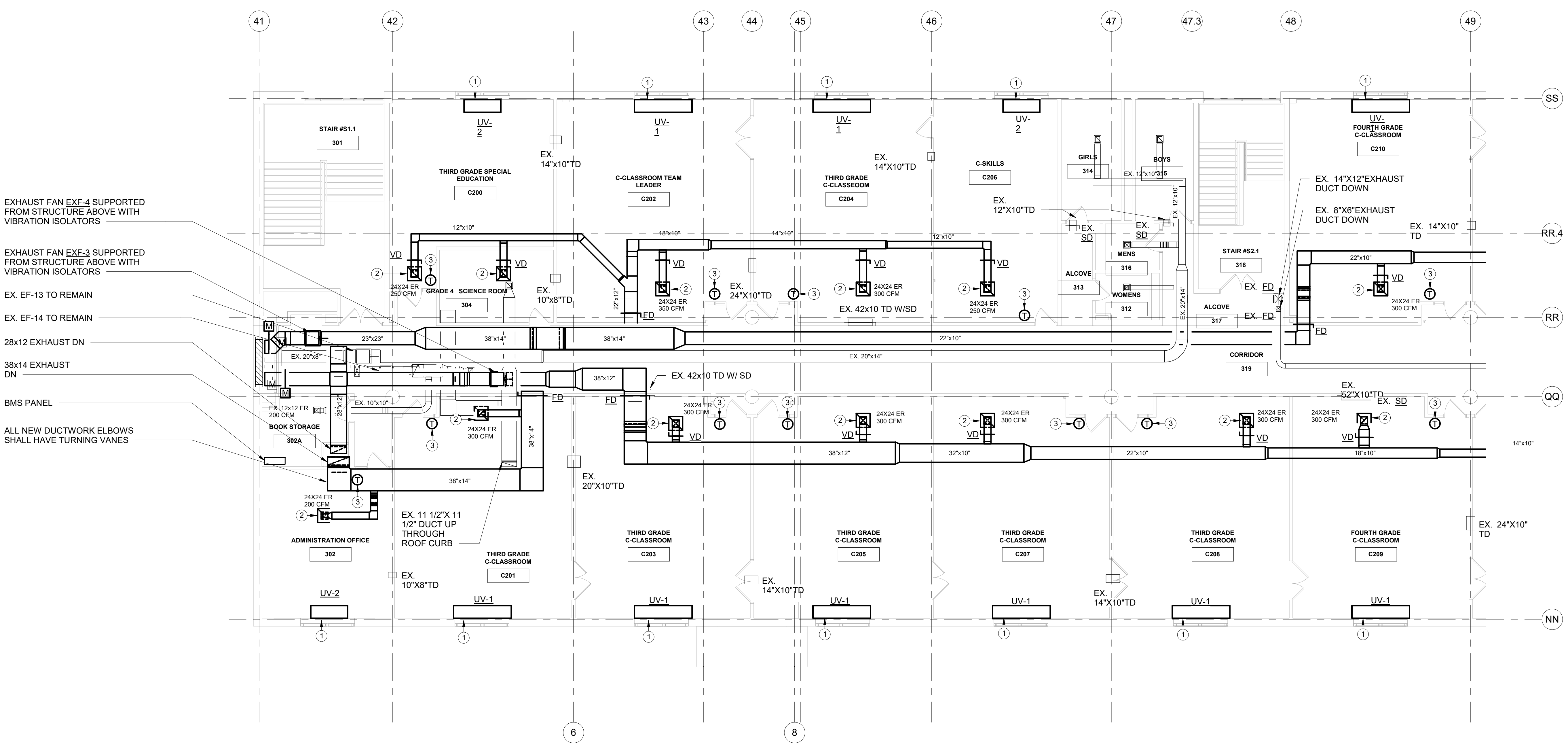
MECHANICAL 2ND FLOOR PART 'B' DUCTWORK NEW WORK PLAN

Job No. NKGD0206.00 Date 08/06/2019

Scale AS NOTED Drawn / Checked Author / Checker

Sheet Number

M205

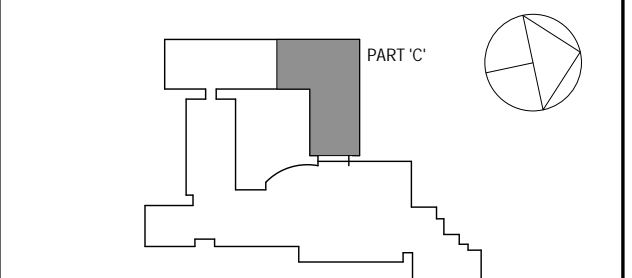


- EXHAUST FAN EXF-4 SUPPORTED FROM STRUCTURE ABOVE WITH VIBRATION ISOLATORS
- EXHAUST FAN EXF-3 SUPPORTED FROM STRUCTURE ABOVE WITH VIBRATION ISOLATORS
- EX. EF-13 TO REMAIN
- EX. EF-14 TO REMAIN
- 28x12 EXHAUST DN
- 36x14 EXHAUST DN
- BMS PANEL
- ALL NEW DUCTWORK ELBOWS SHALL HAVE TURNING VANES

MECHANICAL 2ND FLOOR PART 'B' DUCTWORK NEW WORK PLAN
SCALE: 1/8" = 1'-0"
NORTH

MECHANICAL NEW WORK GENERAL NOTES	
1	PROVIDE NEW DUCTWORK INSULATION ON ALL SUPPLY & RETURN DUCTWORK THROUGHOUT ENTIRE BUILDING UNLESS OTHERWISE NOTED
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MECHANICAL NEW WORK KEYNOTES	
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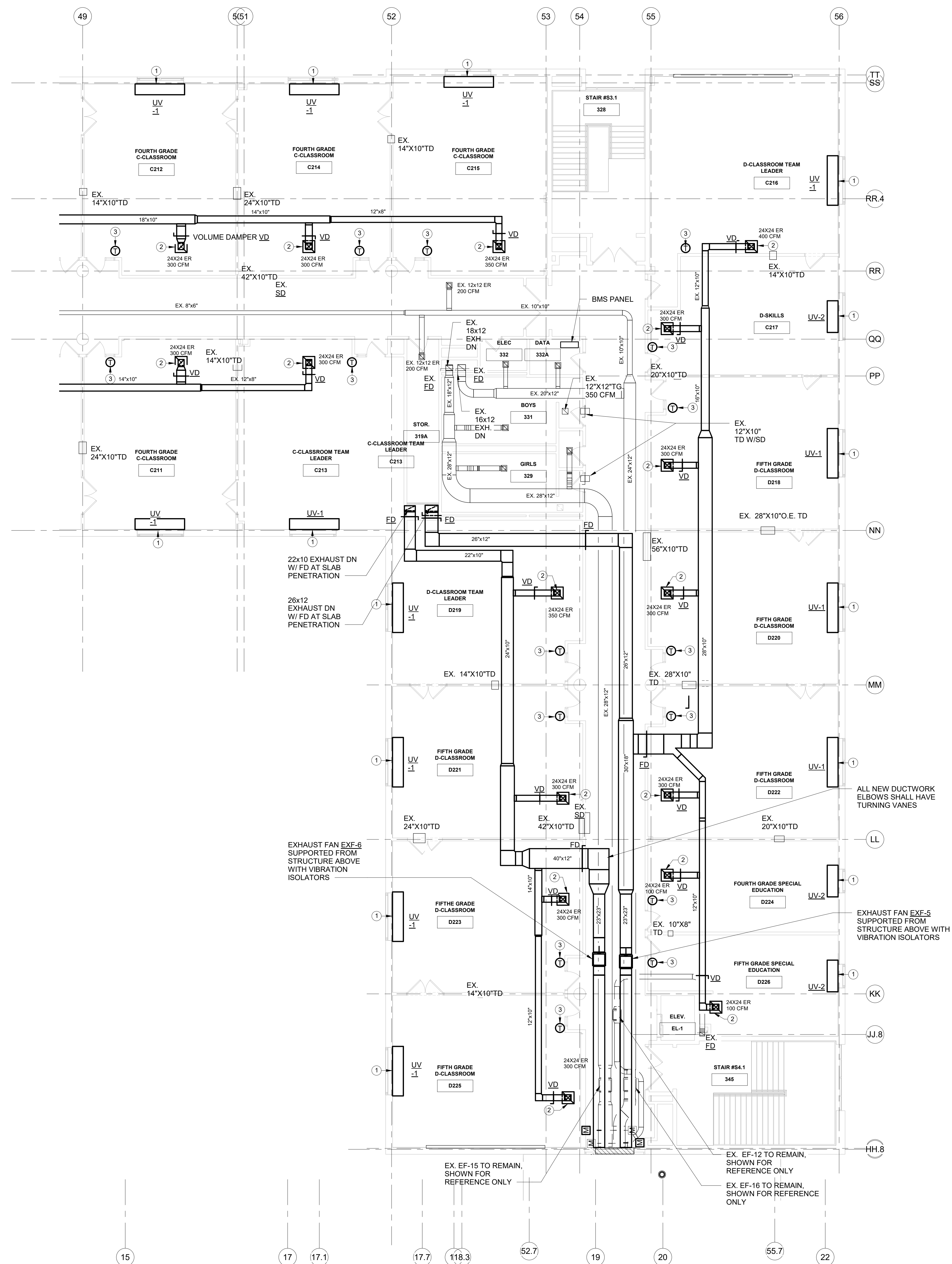
Professional Seal

MECHANICAL NEW WORK GENERAL NOTES

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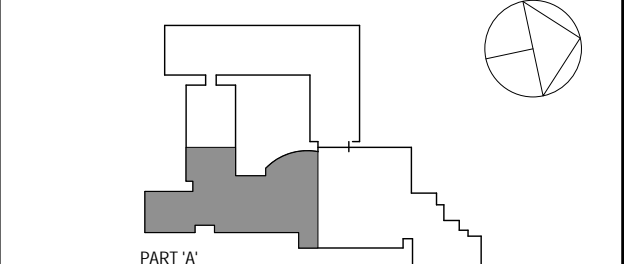
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MECHANICAL 2ND FLOOR PART 'C' DUCTWORK NEW WORK PLAN
SCALE: 1/8" = 1'-0"

MECHANICAL 2ND FLOOR PART 'C'
DUCTWORK NEW WORK PLAN

Job No.	NKGD0206.00	Date	08/09/2019
Scale	AS NOTED	Drawn / Checked	Author / Checker
Sheet Number	M206		



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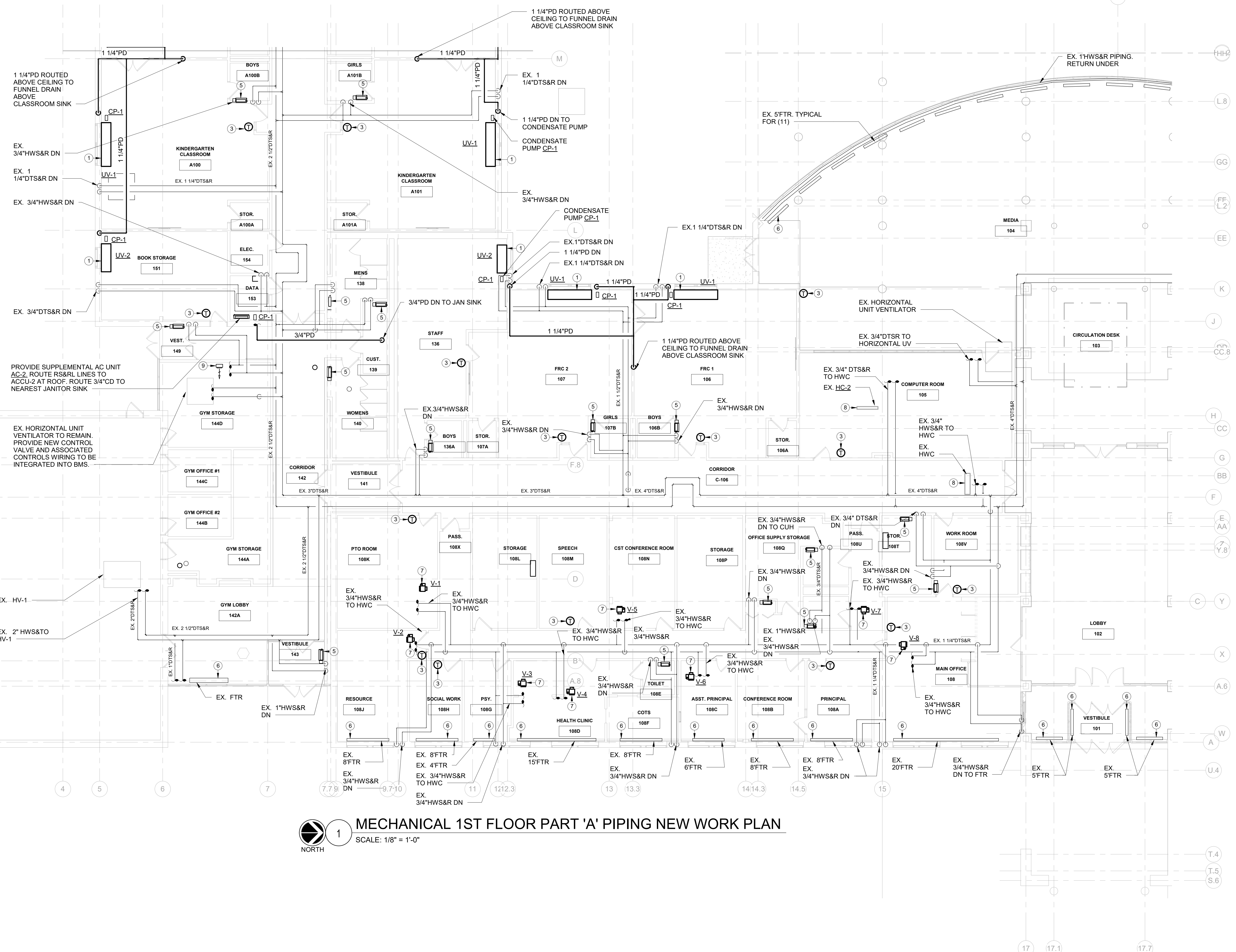
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MECHANICAL 1ST FLOOR PART 'A'
PIPING NEW WORK PLAN

Job No. NKGD0206.00 Date 08/08/2019
Scale AS NOTED Drawn / Checked Author / Checker

Sheet Number
M207



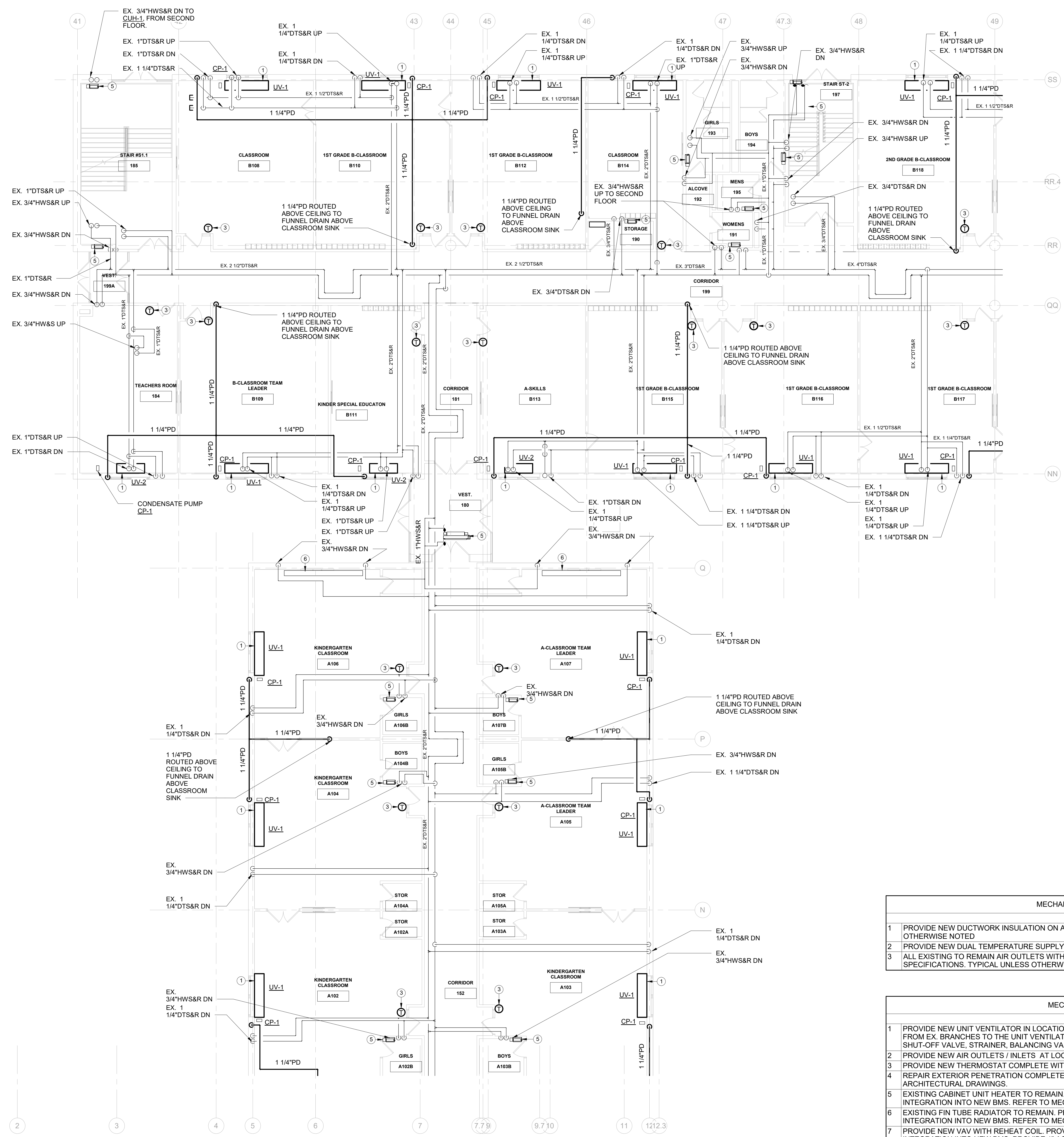
MECHANICAL 1ST FLOOR PART 'A' PIPING NEW WORK PLAN
SCALE: 1/8" = 1'-0"
NORTH

MECHANICAL NEW WORK GENERAL NOTES

- 1 PROVIDE NEW DUCTWORK INSULATION ON ALL SUPPLY & RETURN DUCTWORK THROUGHOUT ENTIRE BUILDING UNLESS OTHERWISE NOTED
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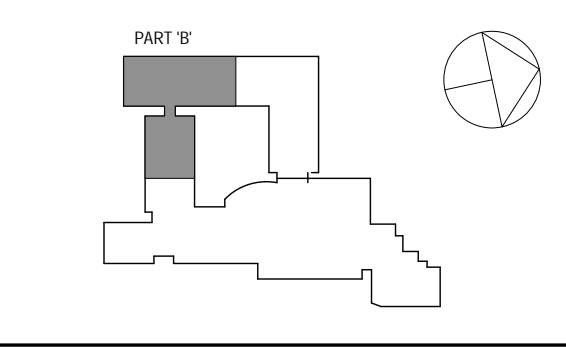


MECHANICAL 1ST FLOOR PART 'B' PIPING NEW WORK PLAN
SCALE: 1/8" = 1'-0"
NORTH

MECHANICAL NEW WORK GENERAL NOTES	
1	PROVIDE NEW DUCTWORK INSULATION ON ALL SUPPLY & RETURN DUCTWORK THROUGHOUT ENTIRE BUILDING UNLESS OTHERWISE NOTED
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3	PROVIDE NEW THERMOSTAT COMPLETE WITH NEW CONTROLS WIRING TO BE INTEGRATED INTO NEW BMS
4	REPAIR EXTERIOR PENETRATION COMPLETE TO PROVIDE AIR AND WATERTIGHT SEAL. COORDINATE WITH ARCHITECTURAL DRAWINGS.

MECHANICAL NEW WORK KEYNOTES	
1	PROVIDE NEW UNIT VENTILATOR IN LOCATION OF PREVIOUSLY DEMOLISHED UNIT. EXTEND NEW 1 1/4\"/>
2	PROVIDE NEW AIR OUTLETS / INLETS AT LOCATION OF PREVIOUSLY DEMOLISHED AIR OUTLET/ INLET.
3	PROVIDE NEW THERMOSTAT COMPLETE WITH NEW CONTROLS WIRING TO BE INTEGRATED INTO NEW BMS
4	REPAIR EXTERIOR PENETRATION COMPLETE TO PROVIDE AIR AND WATERTIGHT SEAL. COORDINATE WITH ARCHITECTURAL DRAWINGS.
5	EXISTING CABINET UNIT HEATER TO REMAIN. PROVIDE NEW CONTROL VALVE AND ASSOCIATED CONTROLS WIRING FOR INTEGRATION INTO NEW BMS. REFER TO MECHANICAL DETAILS.
6	EXISTING FIN TUBE RADIATOR TO REMAIN. PROVIDE NEW CONTROL VALVE AND ASSOCIATED CONTROLS WIRING FOR INTEGRATION INTO NEW BMS. REFER TO MECHANICAL DETAILS.
7	PROVIDE NEW VAV WITH REHEAT COIL. PROVIDE NEW CONTROL VALVE AND ASSOCIATED CONTROLS WIRING FOR INTEGRATION INTO NEW BMS. PROVIDE 1\"/>
8	EXISTING HOTWATER COIL TO REMAIN. PROVIDE NEW CONTROL VALVE AND ASSOCIATED CONTROLS WIRING FOR INTEGRATION INTO NEW BMS. REFER TO MECHANICAL DETAILS.
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SPN 135-0278RR



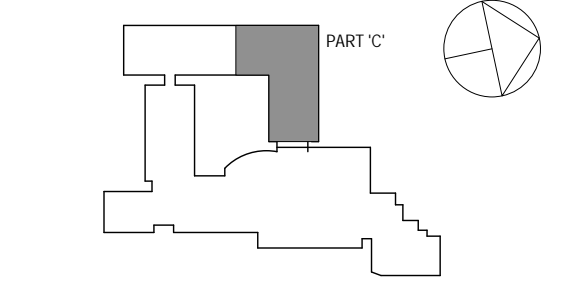
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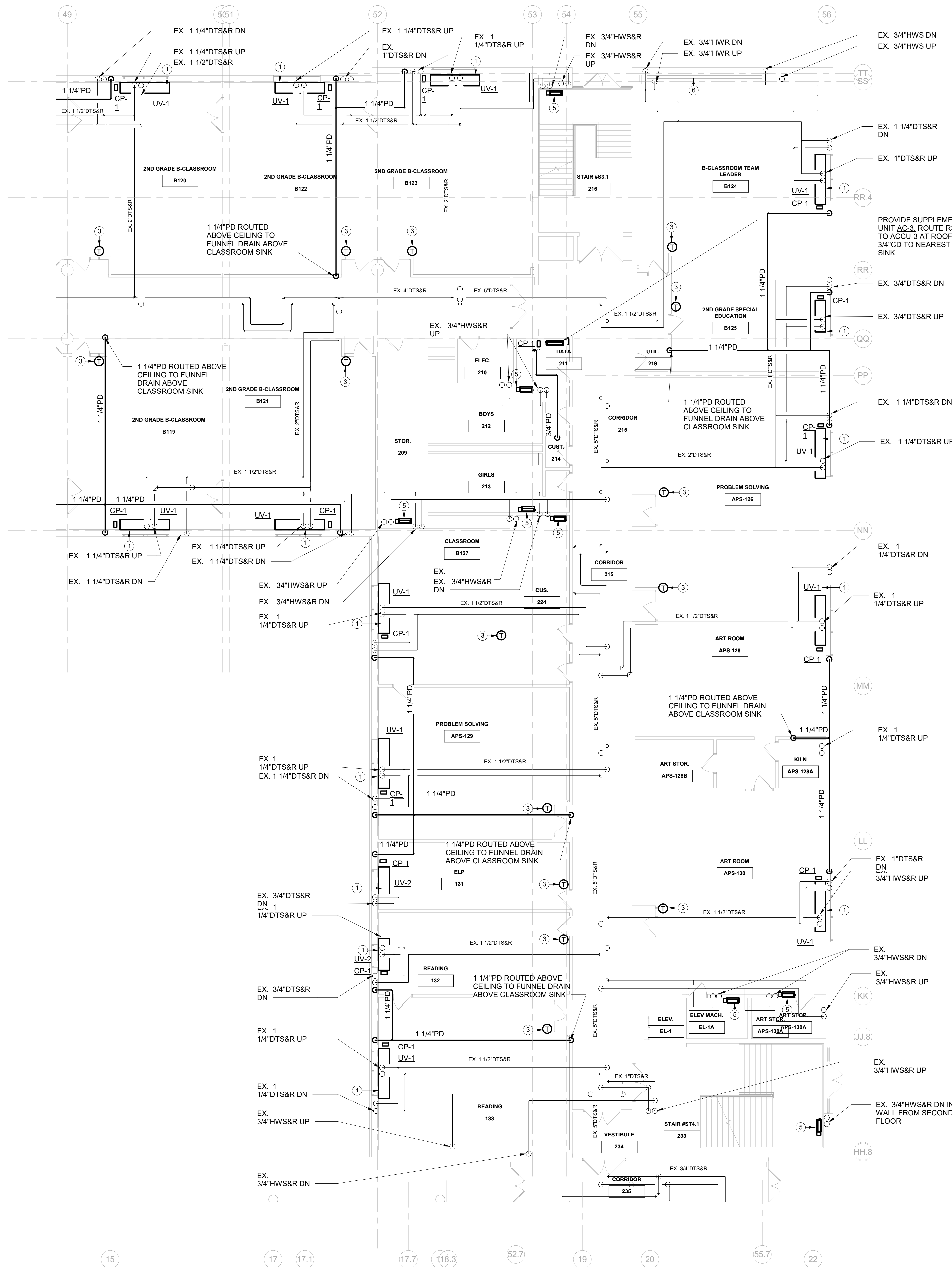
Professional Seal	
No.	Date
3	8/6/2019
2	6/5/2019
1	5/15/2019

MECHANICAL 1ST FLOOR PART 'B' PIPING NEW WORK PLAN	
Job No.	06/06/2019
Scale	AS NOTED
Sheet Number	M208



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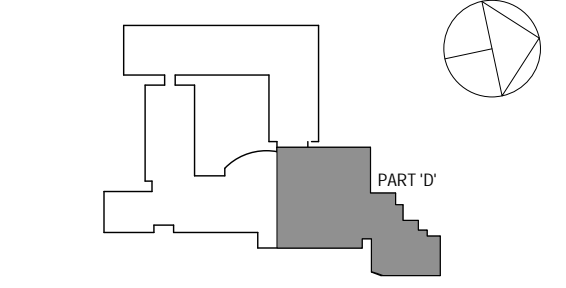
MECHANICAL 1ST FLOOR PART 'C' PIPING NEW WORK PLAN
SCALE: 1/8" = 1'-0"

- MECHANICAL NEW WORK GENERAL NOTES**
- 1 PROVIDE NEW DUCTWORK INSULATION ON ALL SUPPLY & RETURN DUCTWORK THROUGHOUT ENTIRE BUILDING UNLESS OTHERWISE NOTED
 - 2 PROVIDE NEW DUAL TEMPERATURE SUPPLY & RETURN PIPE INSULATION COMPLETE THROUGHOUT ENTIRE BUILDING
 - 3 ALL EXISTING TO REMAIN AIR OUTLETS WITHIN CEILINGS BEING REPLACED SHALL BE REMOVED AND CLEANED AS PER SPECIFICATIONS. TYPICAL UNLESS OTHERWISE NOTED

- MECHANICAL NEW WORK KEYNOTES**
- 1 PROVIDE NEW UNIT VENTILATOR IN LOCATION OF PREVIOUSLY DEMOLISHED UNIT. EXTEND NEW 1 1/4"DTS&R PIPING FROM EX. BRANCHES TO THE UNIT VENTILATOR. PROVIDE NEW PREMIUM PIPING PACKAGE INCLUDING CONTROL VALVE, SHUT-OFF VALVE, STRAINER, BALANCING VALVE & SPECIALTIES. REFER TO MECHANICAL DETAILS.
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MECHANICAL 1ST FLOOR PART 'C' PIPING NEW WORK PLAN

Job No.	NKGD0206.00	Date	08/09/2019
Scale	AS NOTED	Drawn / Checked	Author / Checker
Sheet Number	M209		



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Professional Seal

3	8/6/2019	ISSUED FOR BID
2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING
No.	Date	Issue

MECHANICAL 1ST FLOOR PART 'D'
PIPING NEW WORK PLAN

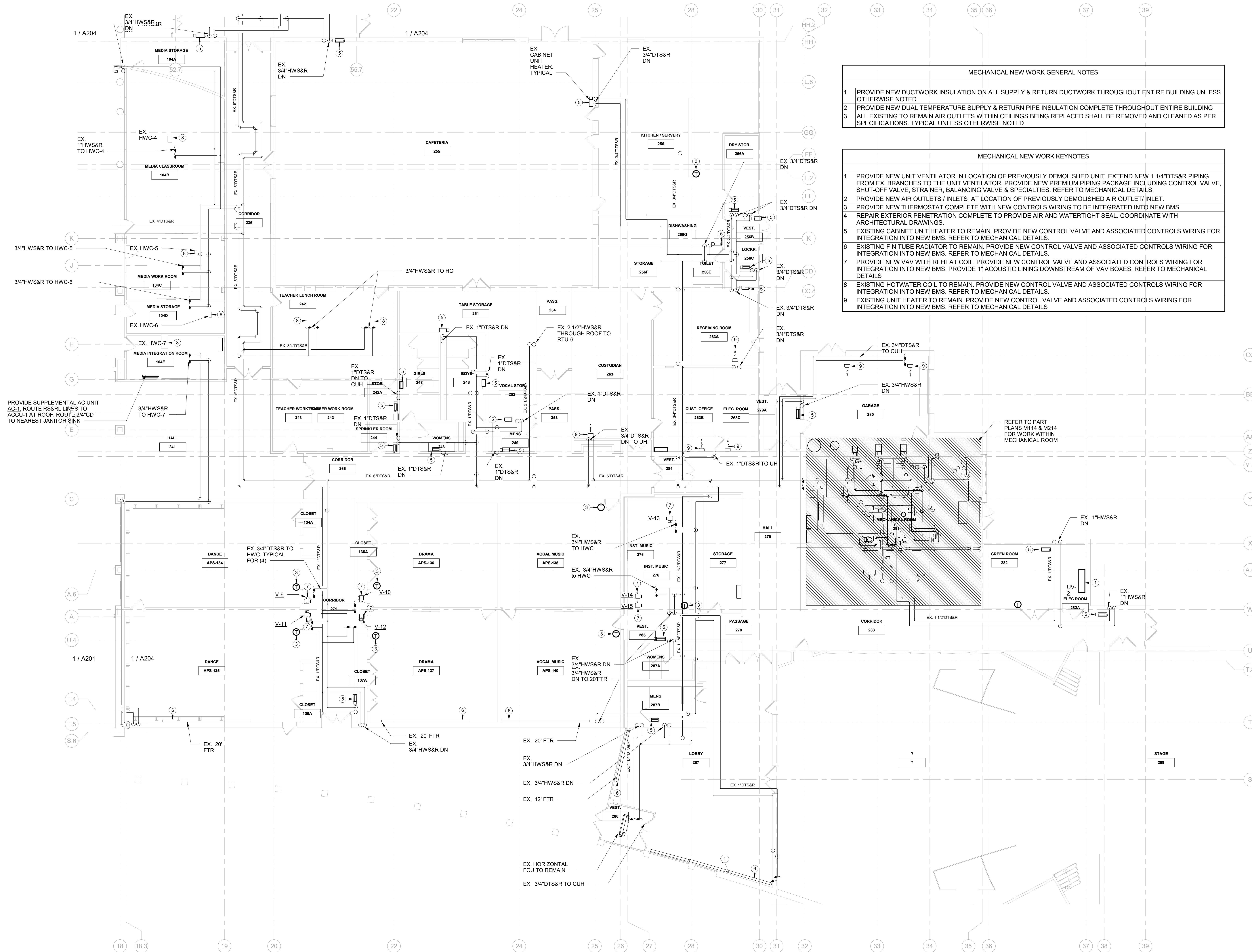
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Scale	AS NOTED	Drawn / Checked	Author Checker
Sheet Number	M210		

MECHANICAL NEW WORK GENERAL NOTES

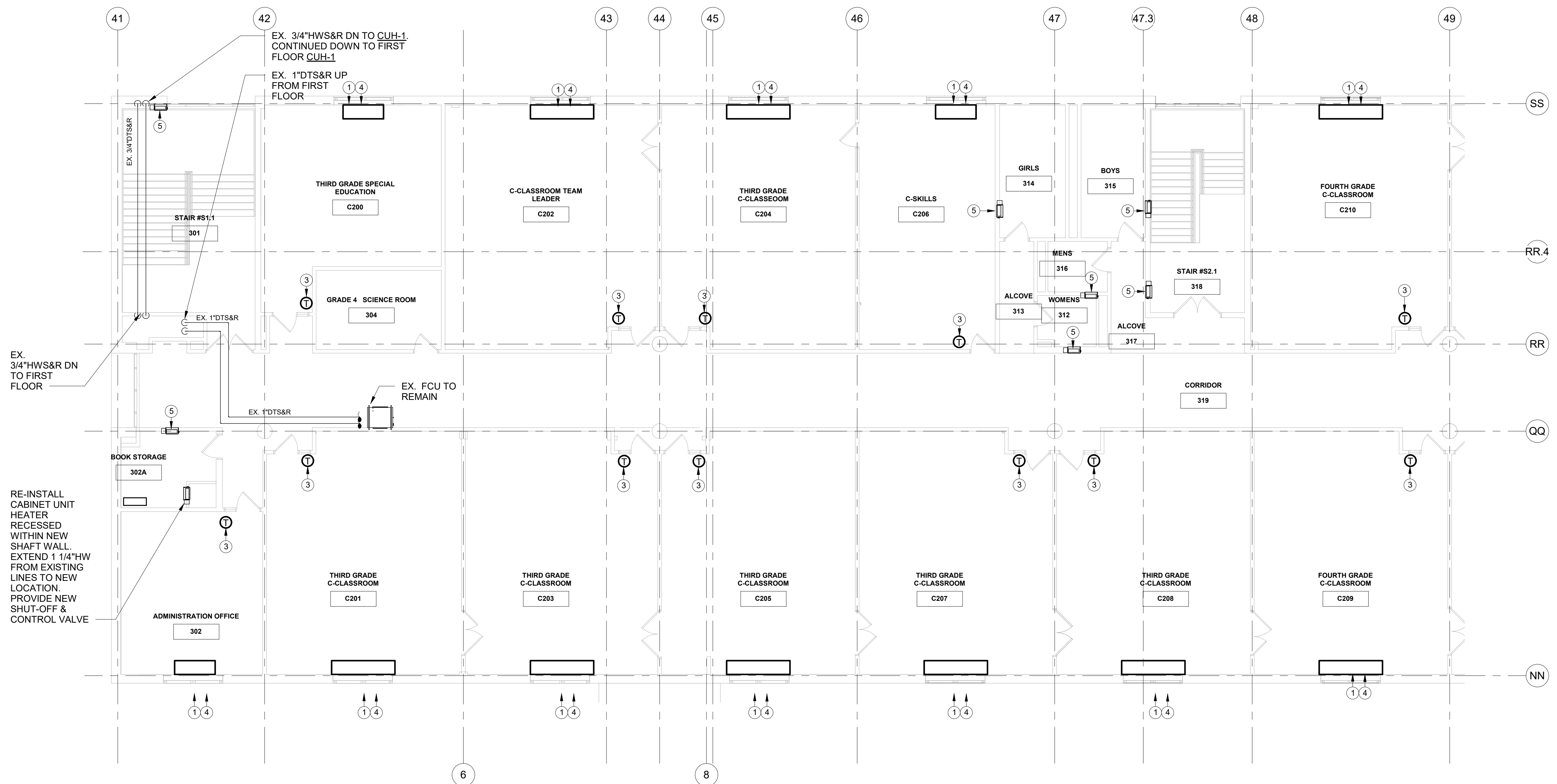
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MECHANICAL NEW WORK KEYNOTES

- 1 PROVIDE NEW UNIT VENTILATOR IN LOCATION OF PREVIOUSLY DEMOLISHED UNIT. EXTEND NEW 1 1/4" DTS&R PIPING FROM EX. BRANCHES TO THE UNIT VENTILATOR. PROVIDE NEW PREMIUM PIPING PACKAGE INCLUDING CONTROL VALVE, SHUT-OFF VALVE, STRAINER, BALANCING VALVE & SPECIALTIES. REFER TO MECHANICAL DETAILS.
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MECHANICAL 1ST FLOOR PART 'D' PIPING NEW WORK PLAN
SCALE: 1/8" = 1'-0"
NORTH

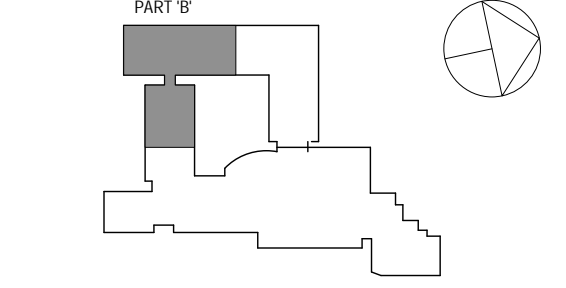


MECHANICAL 2ND FLOOR PART 'B' PIPING NEW WORK PLAN
SCALE: 1/8" = 1'-0"
NORTH

MECHANICAL NEW WORK GENERAL NOTES	
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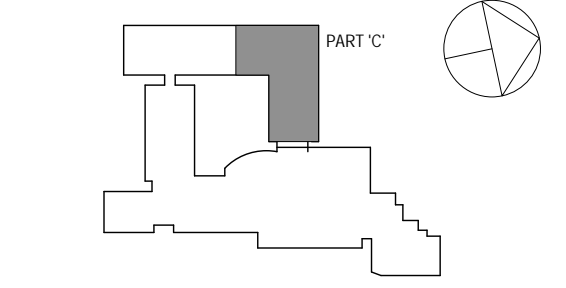
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No.	Date	Issue
3	8/6/2019	ISSUED FOR BID
2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING

Sheet Title
MECHANICAL 2ND FLOOR PART 'B' PIPING NEW WORK PLAN

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author Checker
Sheet Number	M211		



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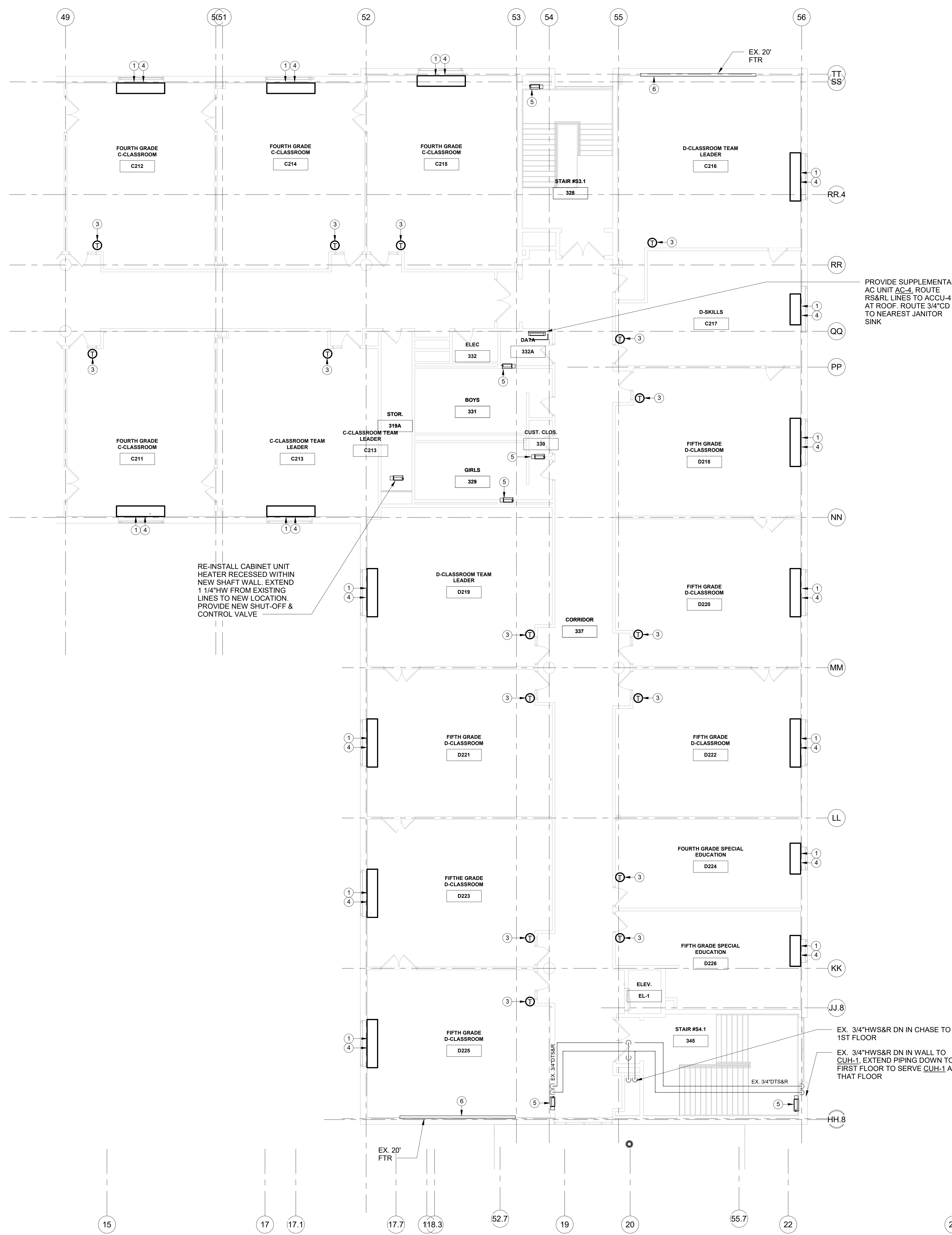
No.	Date	Issue
3	8/6/2019	ISSUED FOR BID
2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING

MECHANICAL 2ND FLOOR PART 'C' PIPING NEW WORK PLAN

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author / Checker

Sheet Number

M212

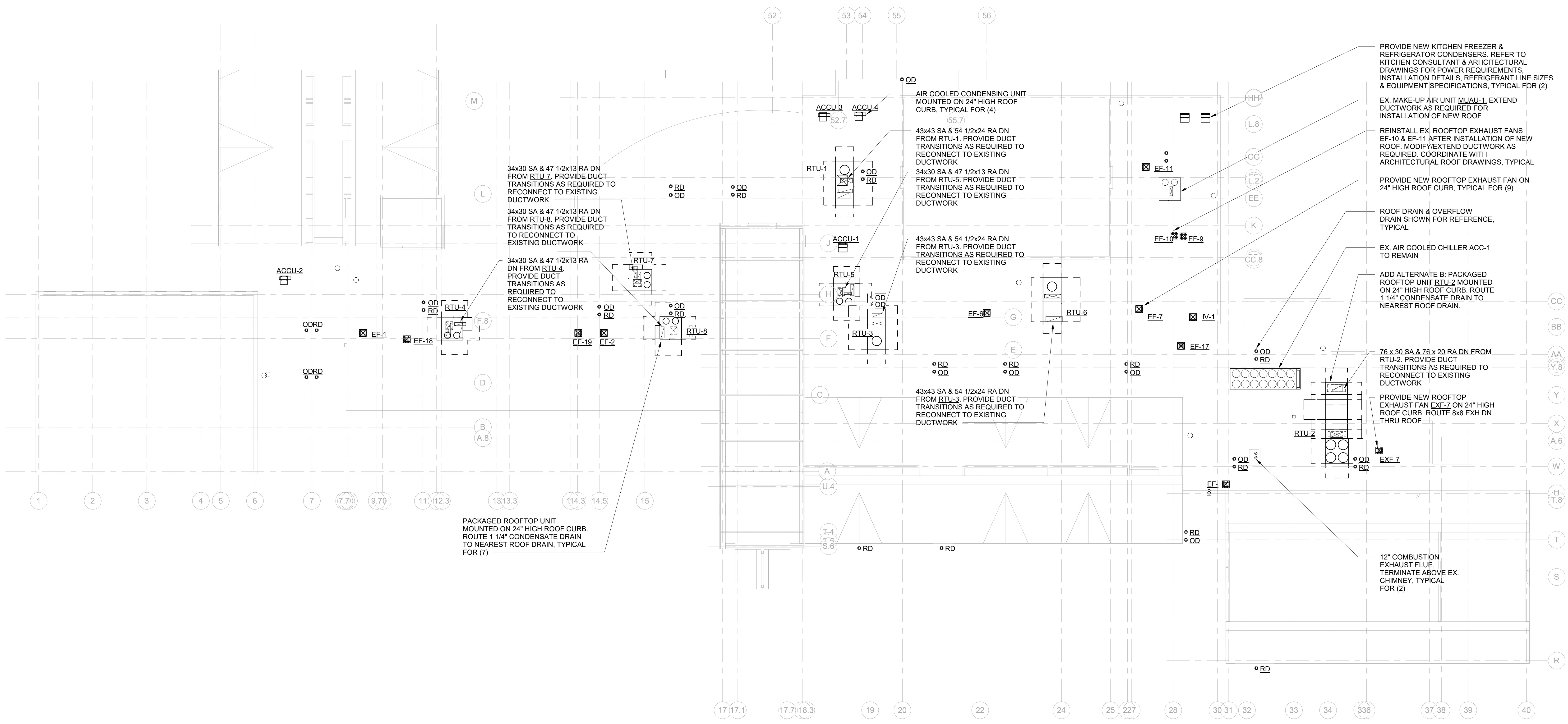


PROVIDE SUPPLEMENTAL AC UNIT AC-4. ROUTE RS&RL LINES TO ACCU-4 AT ROOF. ROUTE 3/4" CD TO NEAREST JANITOR SINK

RE-INSTALL CABINET UNIT HEATER RECESSED WITHIN NEW SHAFT WALL. EXTEND 1 1/4" HW FROM EXISTING LINES TO NEW LOCATION. PROVIDE NEW SHUT-OFF & CONTROL VALVE

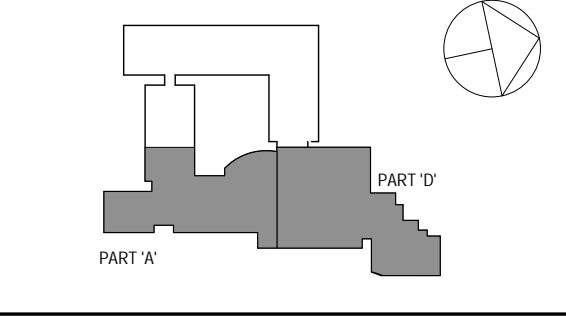
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MECHANICAL ROOF NEW WORK PLAN
SCALE: 1/16" = 1'-0"
NORTH

SPN 135-0278RR



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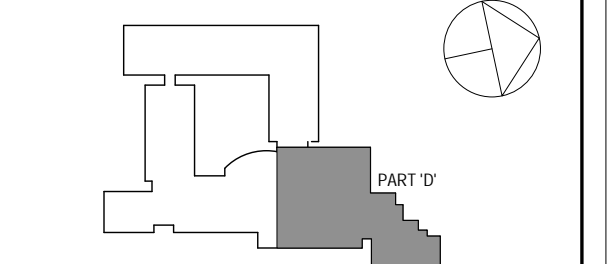
3	8/6/2019	ISSUED FOR BID
2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING
No.	Date	Issue

MECHANICAL ROOF NEW WORK PLAN

Job No.	08/06/2019
Scale	AS NOTED
Drawn / Checked	Author Checker

Sheet Number
M213

MECHANICAL NEW WORK GENERAL NOTES	
1	PROVIDE NEW DUCTWORK INSULATION ON ALL SUPPLY & RETURN DUCTWORK THROUGHOUT ENTIRE BUILDING UNLESS OTHERWISE NOTED
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3	8/6/2019	ISSUED FOR BID
2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING
No.	Date	Issue

Sheet Title

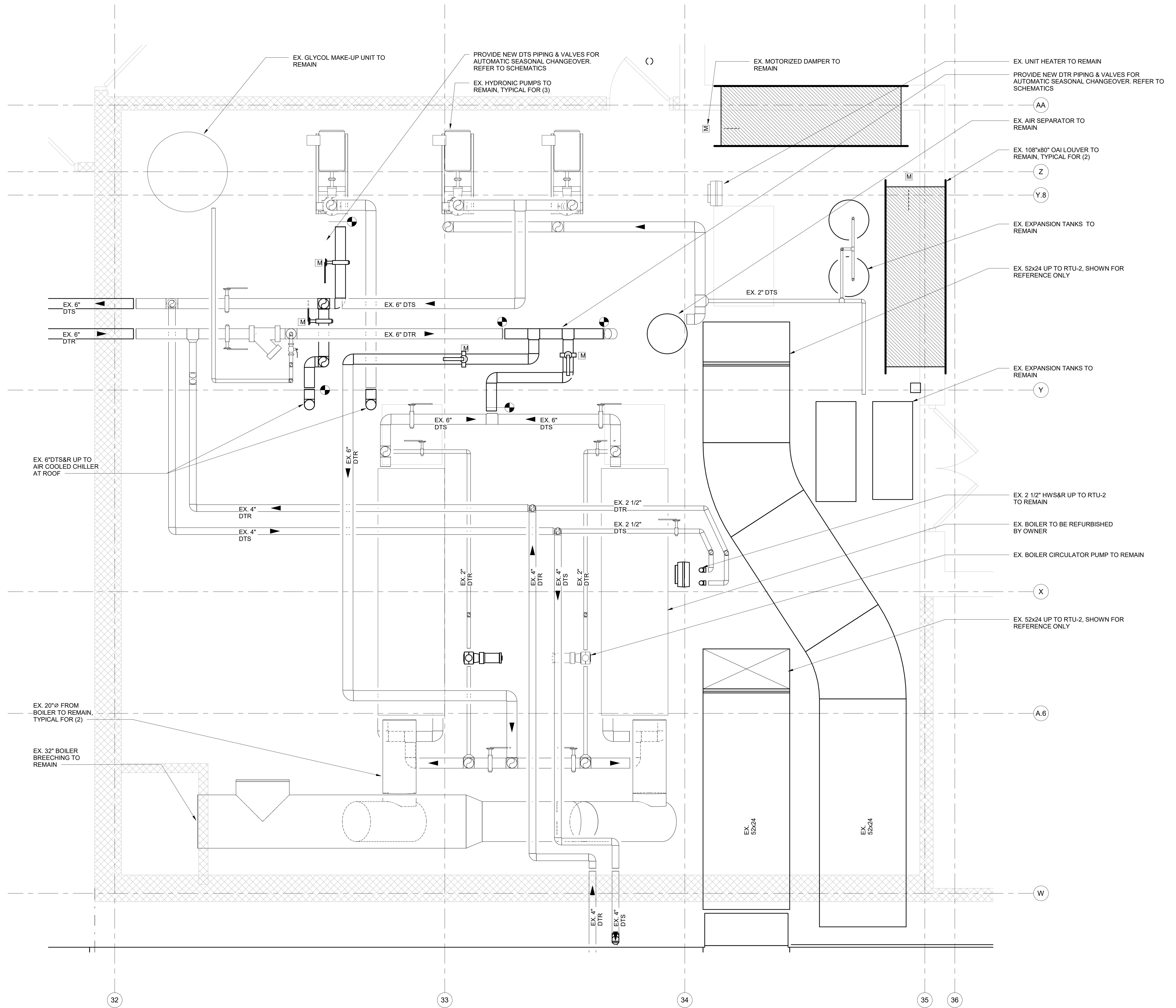
MECHANICAL BOILER ROOM NEW
WORK PLAN

Job No. NKGD0206.00 Date 08/06/2019

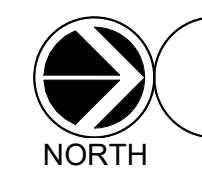
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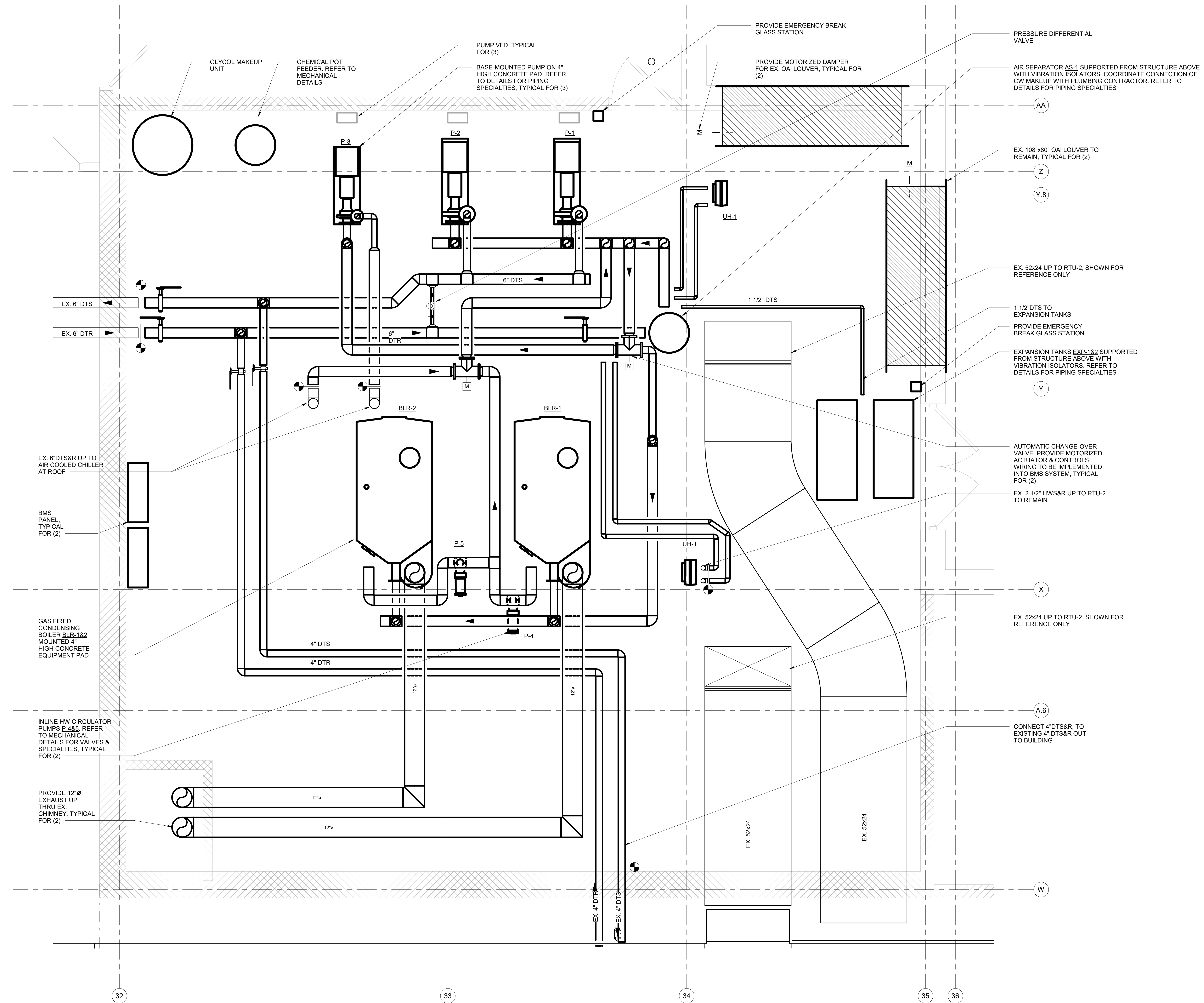
Sheet Number

M214



1 MECHANICAL BOILER ROOM NEW WORK PLAN
SCALE: 1/2" = 1'-0"

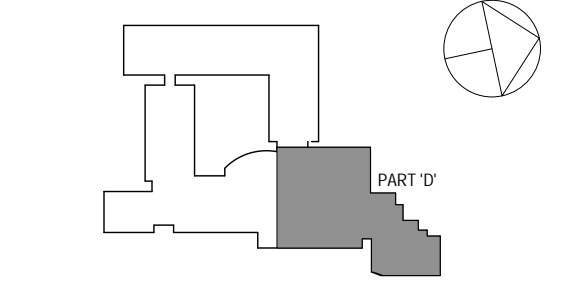




MECHANICAL BOILER ROOM NEW WORK PLAN - ALTERNATE A
SCALE: 1/2" = 1'-0"
NORTH

- MECHANICAL NEW WORK GENERAL NOTES
- 1 PROVIDE NEW DUCTWORK INSULATION ON ALL SUPPLY & RETURN DUCTWORK THROUGHOUT ENTIRE BUILDING UNLESS OTHERWISE NOTED
 - 2 PROVIDE NEW DUAL TEMPERATURE SUPPLY & RETURN PIPE INSULATION COMPLETE THROUGHOUT ENTIRE BUILDING
 - 3 ALL EXISTING TO REMAIN AIR OUTLETS WITHIN CEILING BEING REPLACED SHALL BE REMOVED AND CLEANED AS PER SPECIFICATIONS. TYPICAL UNLESS OTHERWISE NOTED

SPN 135-0278RR



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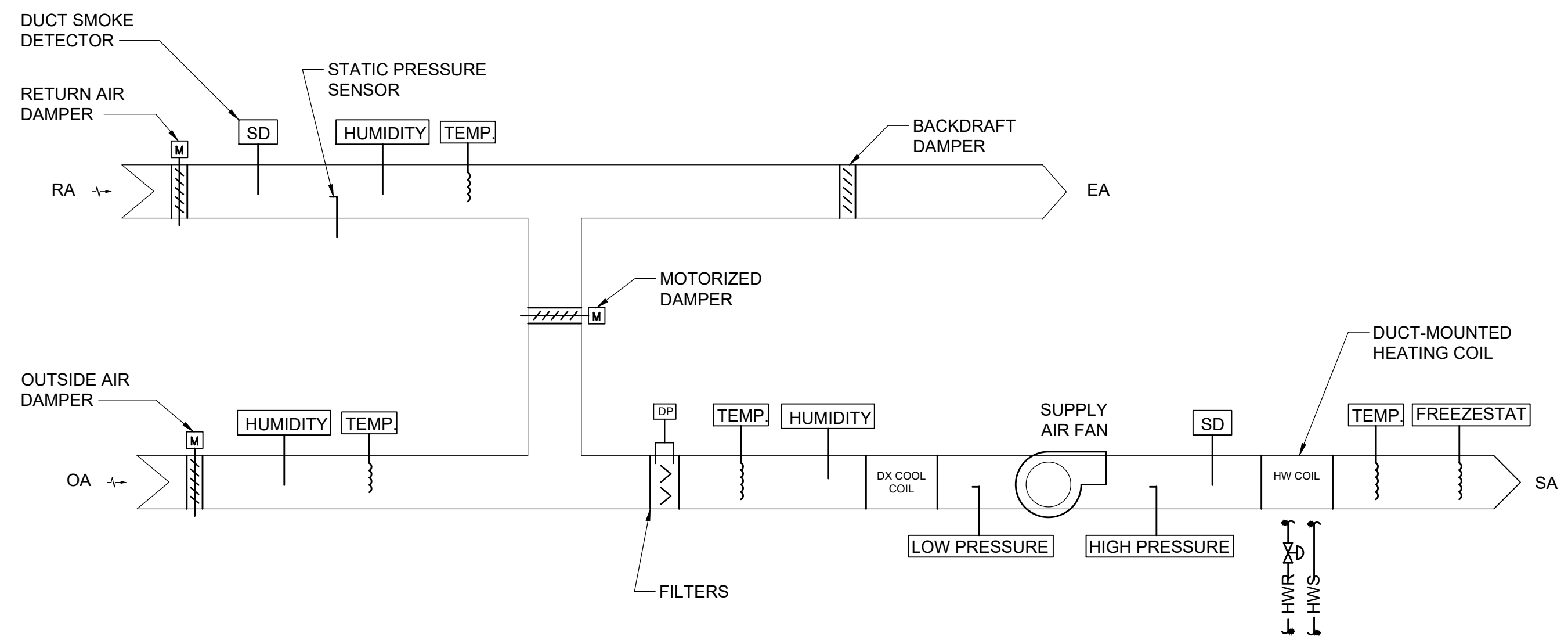
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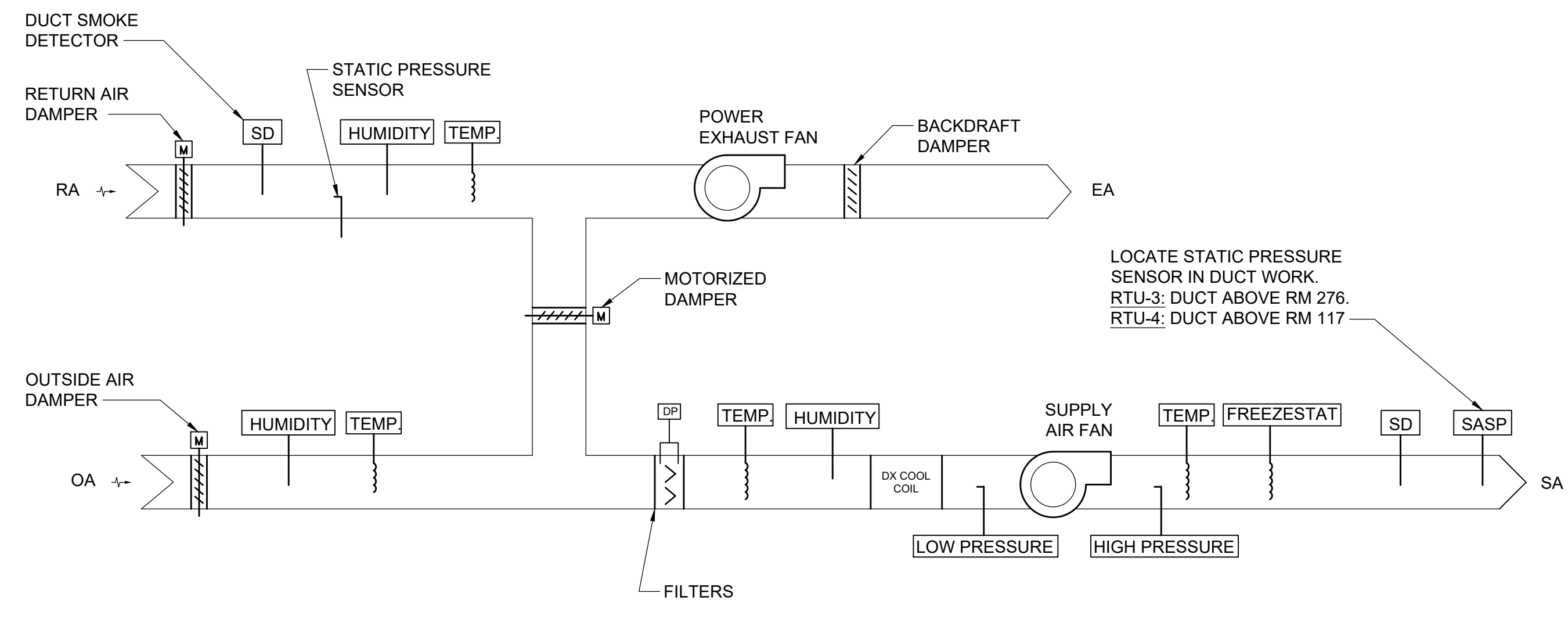
MECHANICAL BOILER ROOM NEW WORK PLAN - ALTERNATE A

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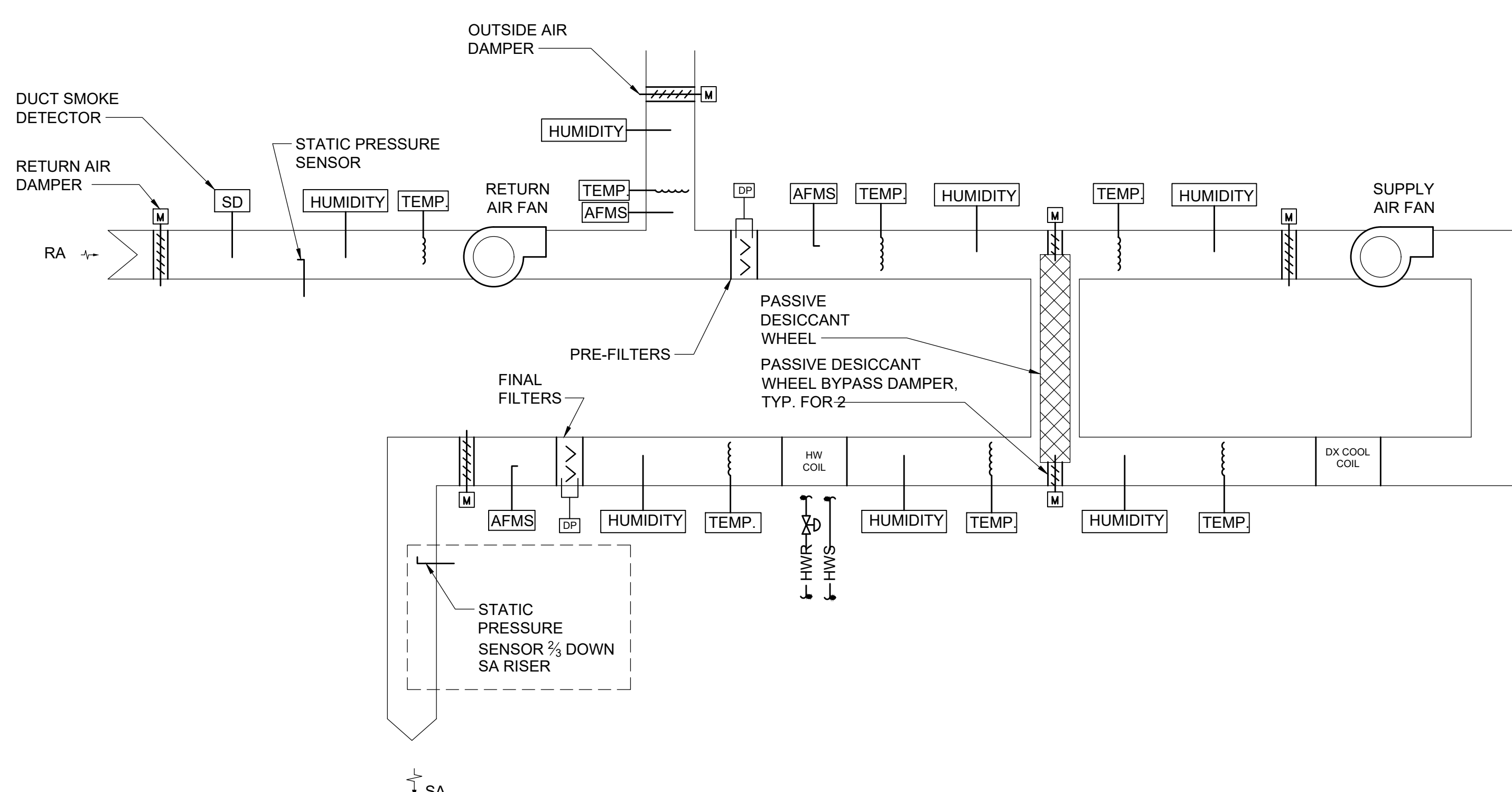
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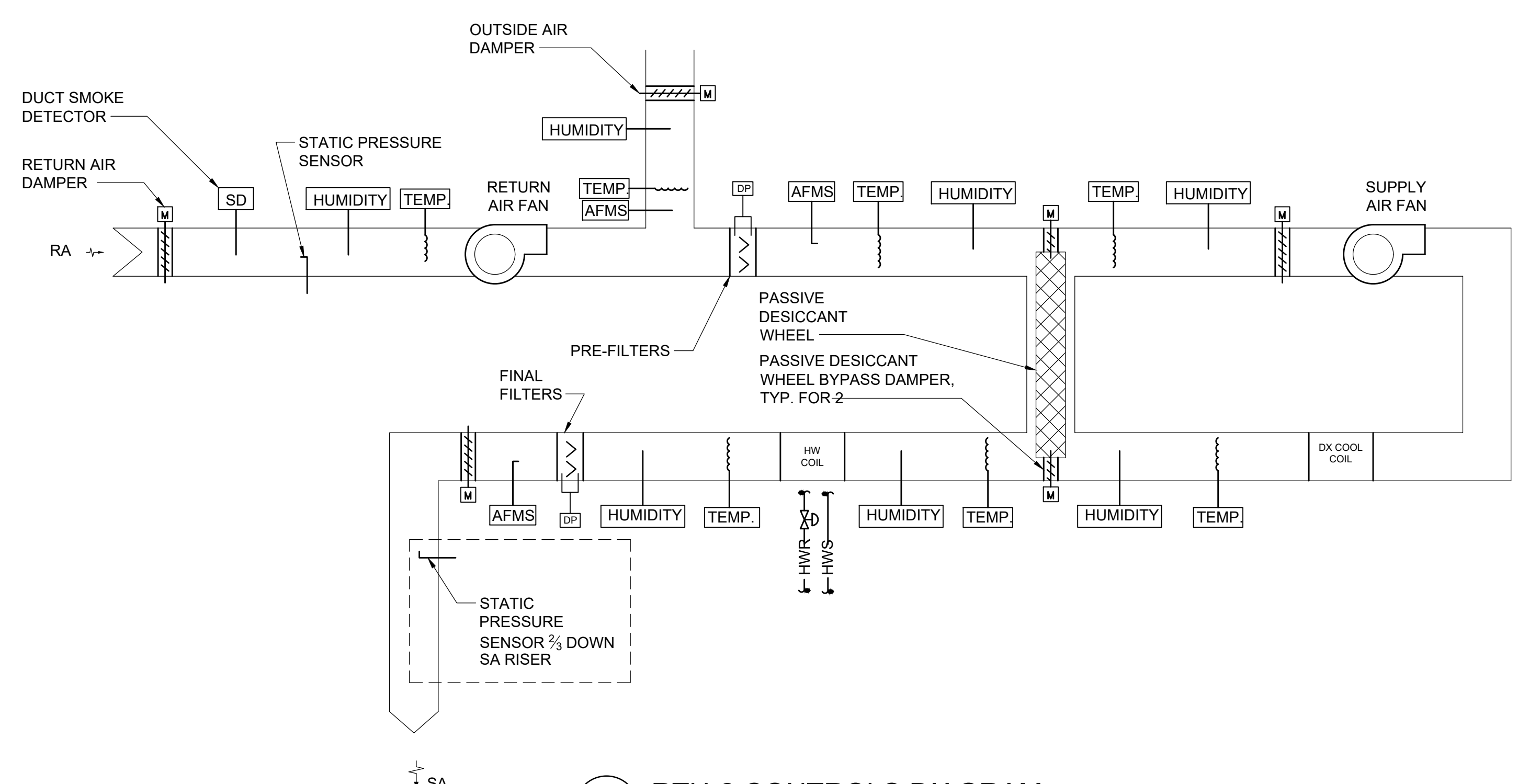
6 RTU-7 AND RTU-8 CONTROLS DIAGRAM
SCALE: NONE



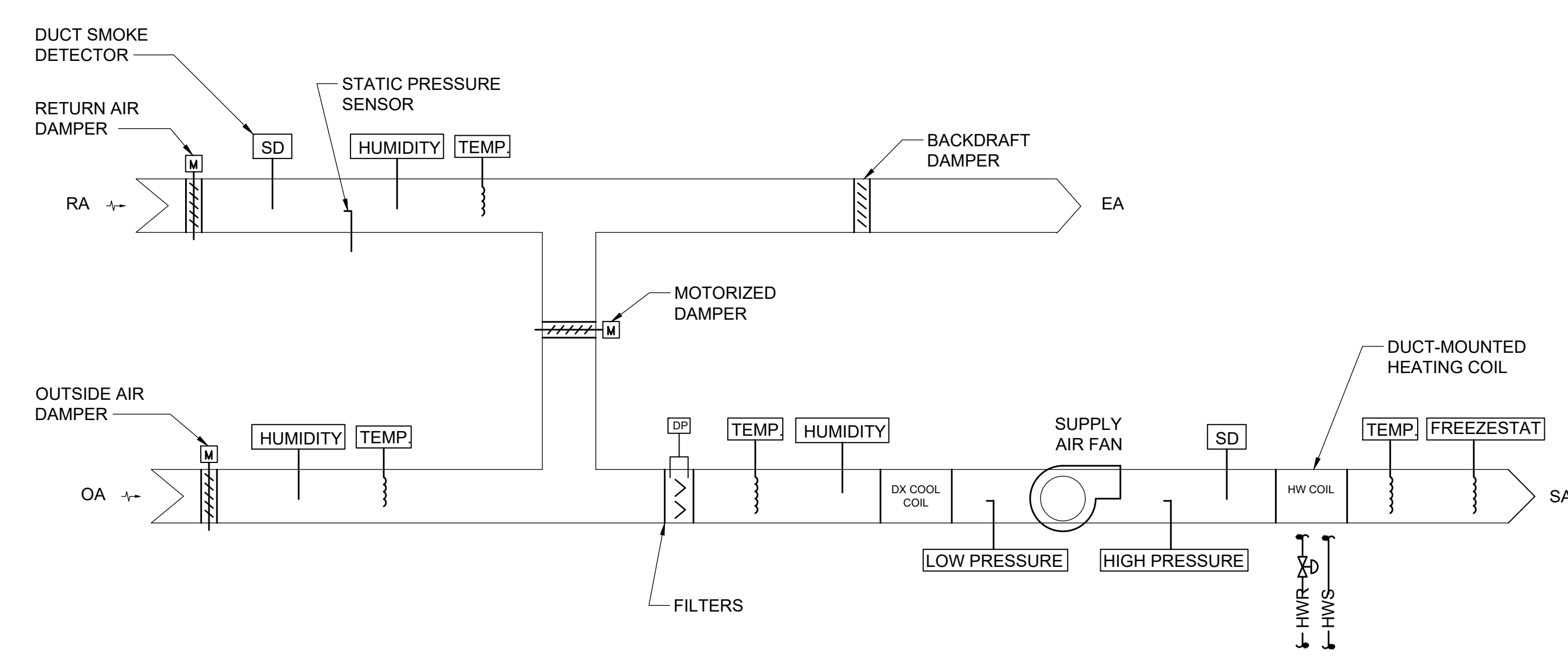
3 RTU-3 & RTU-4 CONTROLS DIAGRAM
SCALE: NONE



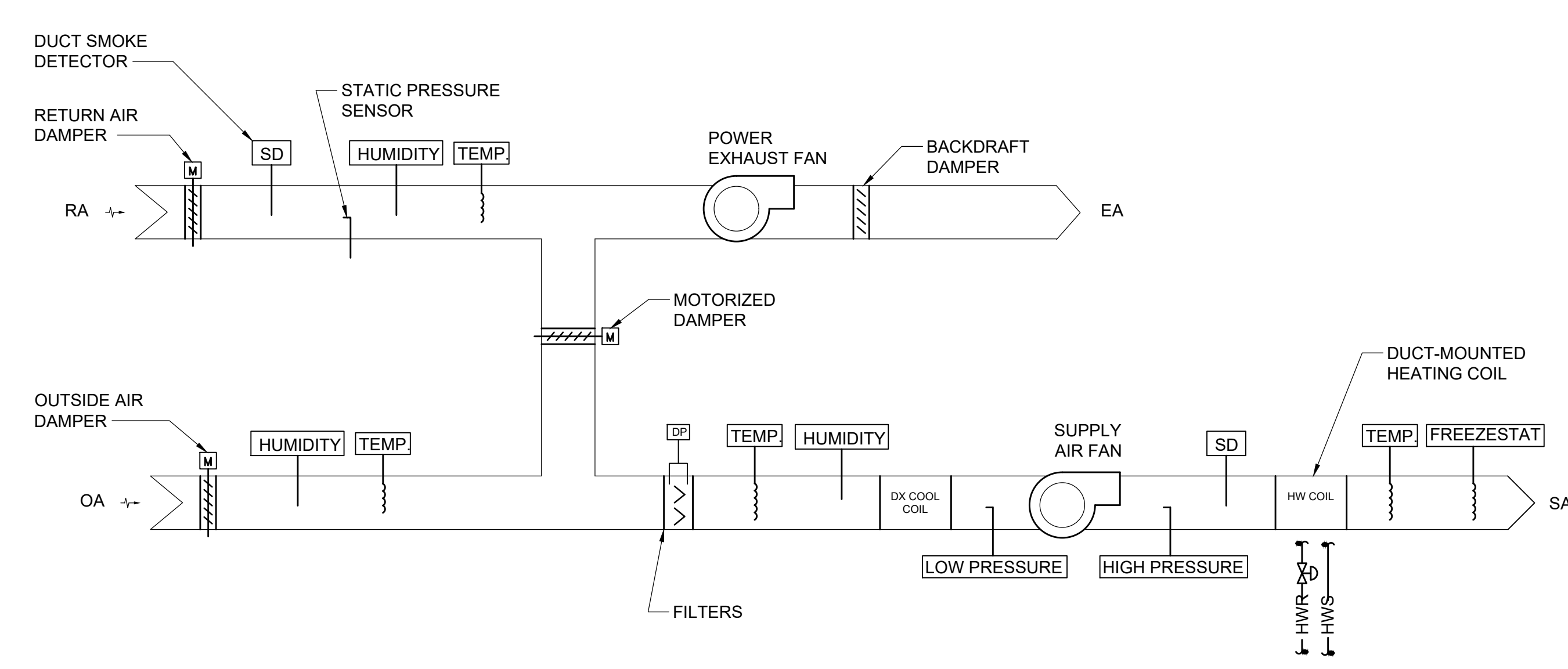
5 RTU-6 CONTROLS DIAGRAM
SCALE: NONE



2 RTU-2 CONTROLS DIAGRAM
SCALE: NONE

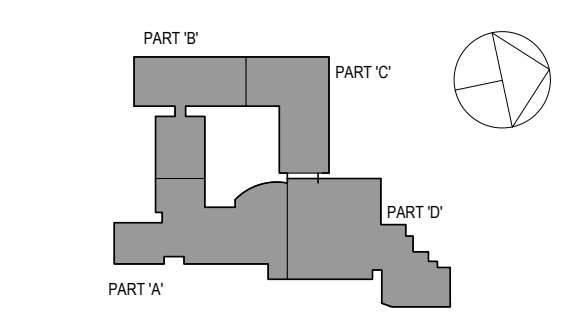


4 RTU-5 CONTROLS DIAGRAM
SCALE: NONE



1 RTU-1 CONTROLS DIAGRAM
SCALE: NONE

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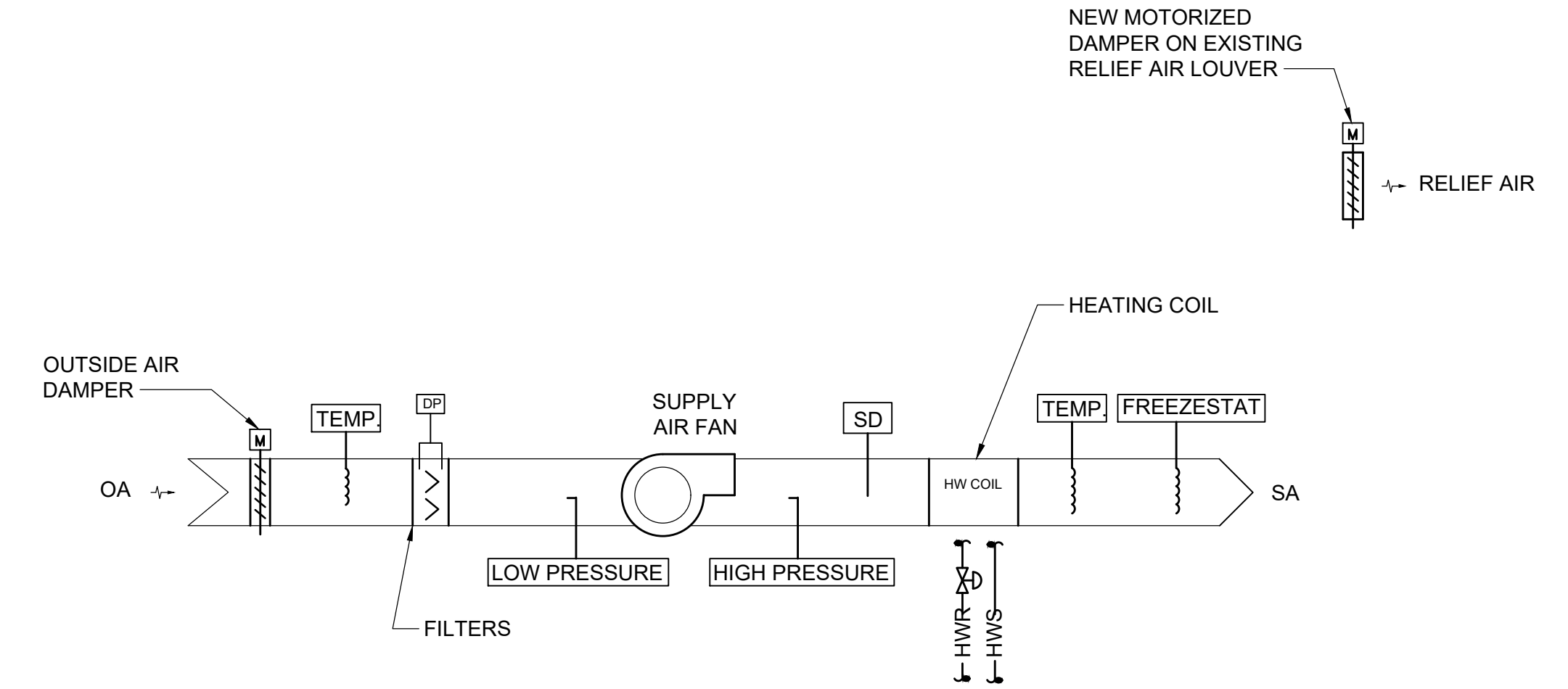
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1 OF 3

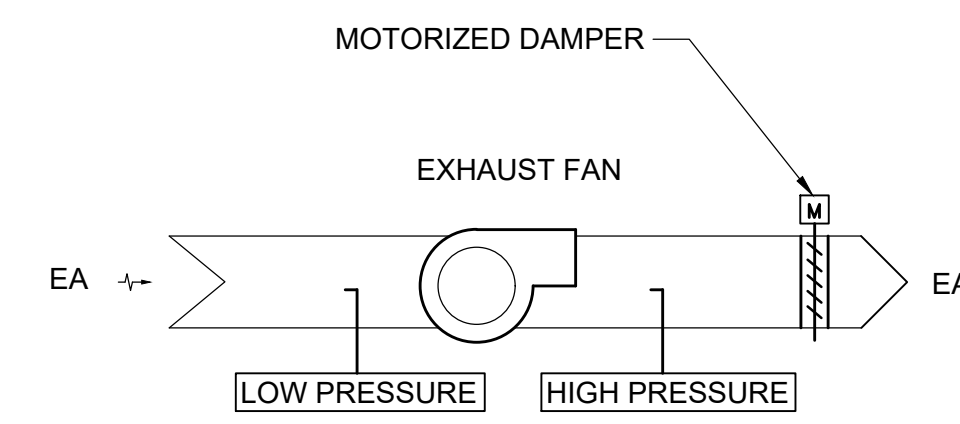
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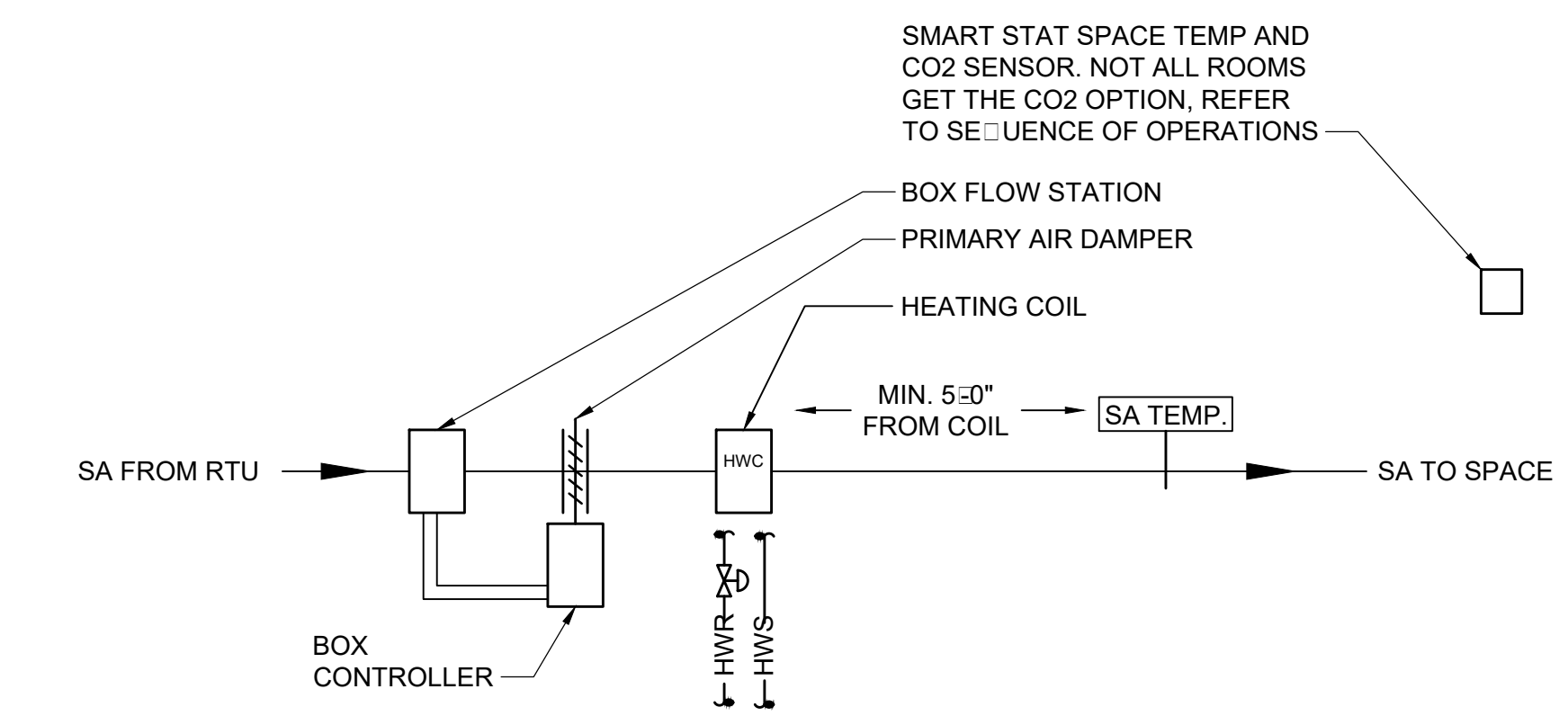
M501



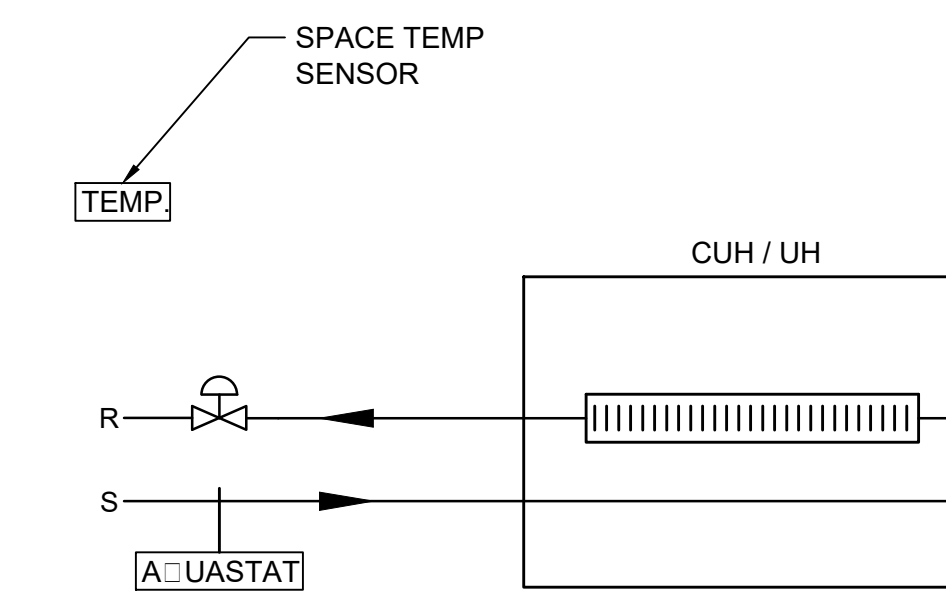
4 HV-1 CONTROLS DIAGRAM
SCALE: NONE



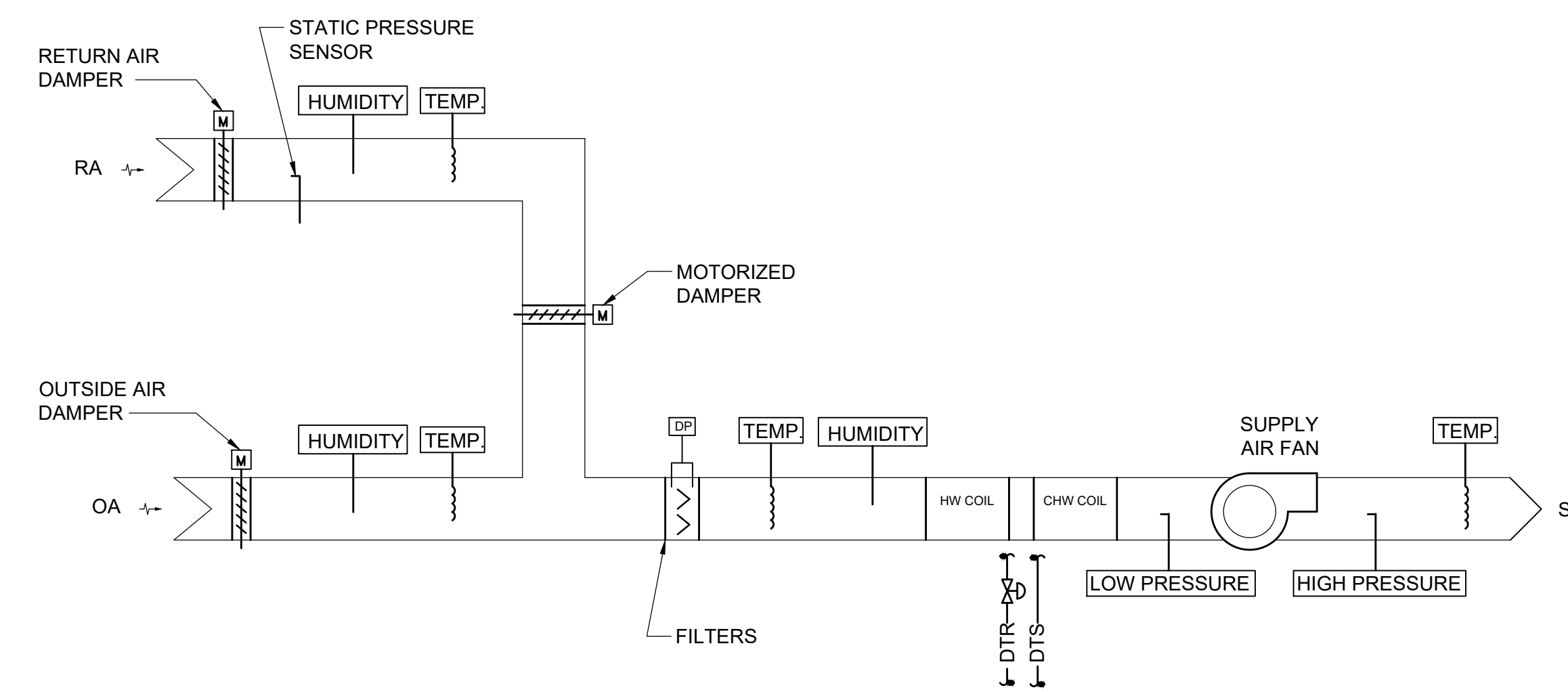
6 EXHAUST FAN CONTROLS DIAGRAM
SCALE: NONE



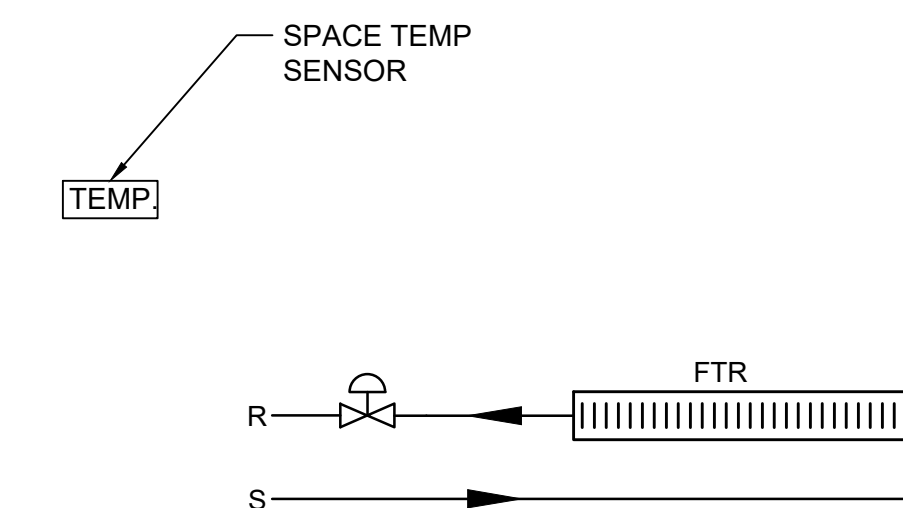
3 VAV BOX CONTROLS DIAGRAM
SCALE: NONE



2 UH & CUH CONTROLS DIAGRAM
SCALE: NONE

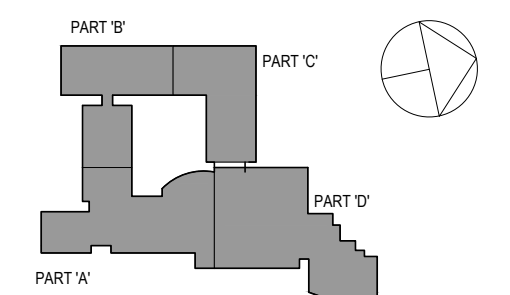


5 UNIT VENTILATOR CONTROLS DIAGRAM
SCALE: NONE



1 FTR CONTROLS DIAGRAM
SCALE: NONE

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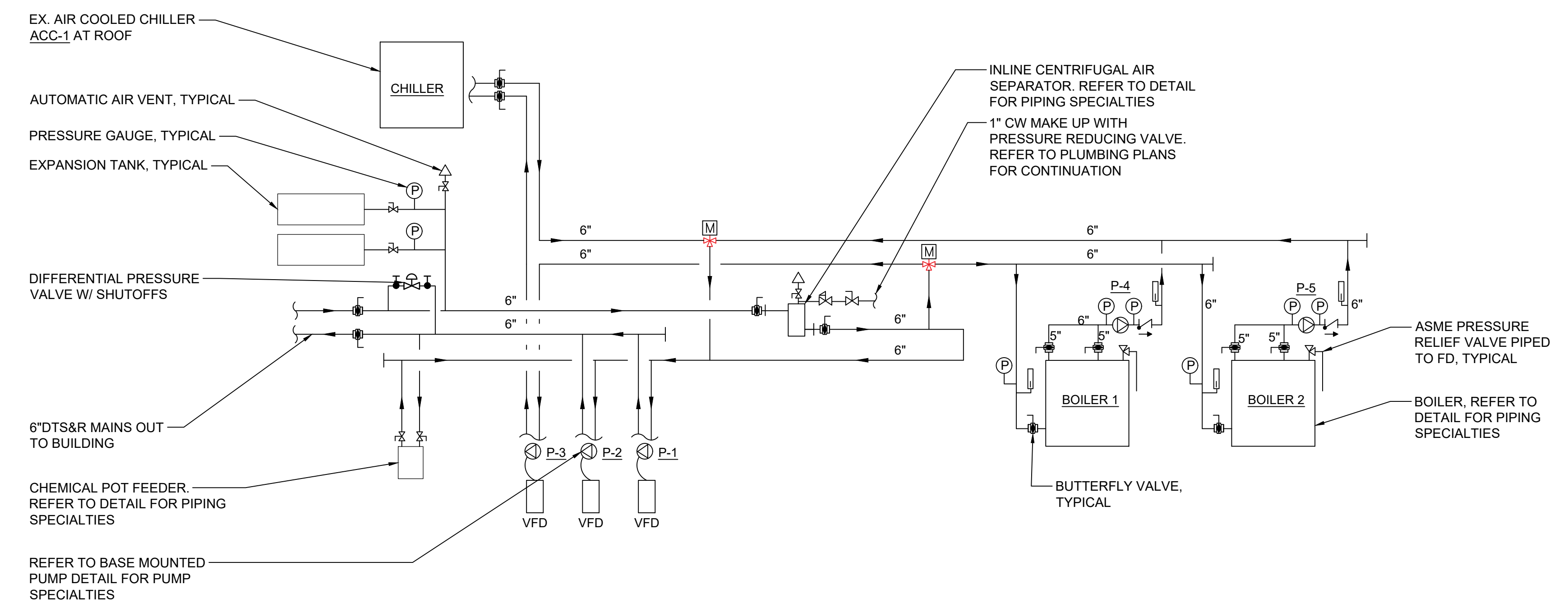
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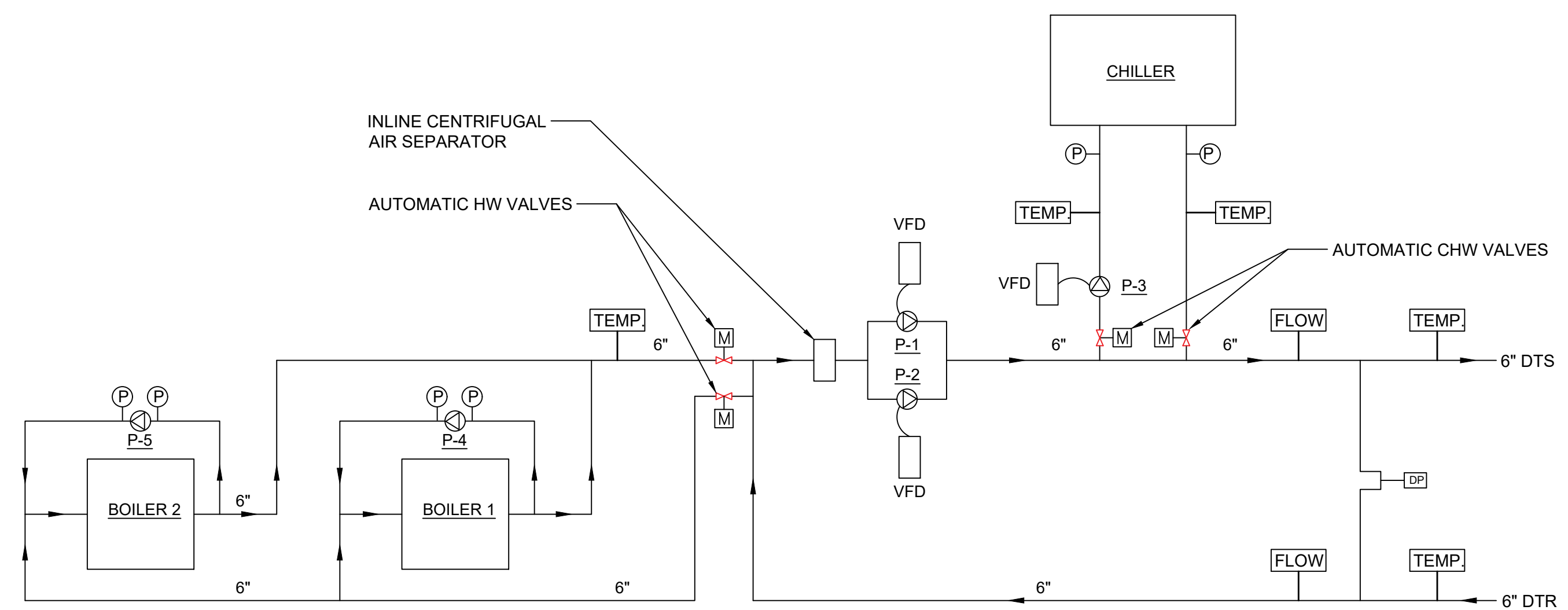
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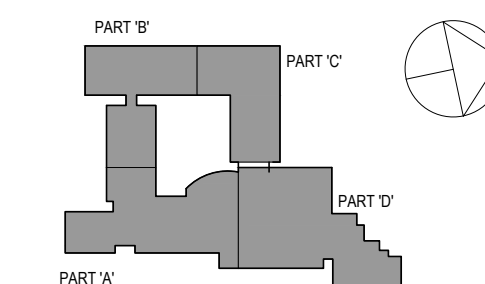


2 DUAL TEMPERATURE SCHEMATIC - ALTERNATE A
SCALE: NONE



1 DUAL TEMPERATURE SCHEMATIC - BASE BID
SCALE: NONE

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3 OF 3

Job No. NKGD0206.00 Date 08/6/2019

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Sheet Number

M503

PACKAGED ROOFTOP AC UNIT SCHEDULE										
	TAG	RTU-1 (Media Center)	RTU-2 (Auditorium)	RTU-3 (Dance Room)	RTU-4 (Office Wing)	RTU-5 (North Lobby)	RTU-6 (Cafeteria)	RTU-7 (Computer Room)	RTU-8 (South Lobby)	
	Weight(lbs)	3463	3845	3463	2409	2021	3578	2021	2021	2021
	Qty	1	1	1	1	1	1	1	1	1
	Model	DPS020A	RPS042D	DPS018A	DPS015A	DPS007A	DPS020A	DPS007A	DPS007A	DPS007A
	Voltage	460/60/3	460/60/3	460/60/3	460/60/3	460/60/3	460/60/3	460/60/3	460/60/3	460/60/3
	MCA (A)	103.2	103.2	41.8	31.8	16.4	20.4	53.6	16.4	16.4
	MROPD (A)	80	125	60	40	20	80	20	20	20
	EER / SEER	10.6	10.1	11.4	11.1	12.3	10.6	12.3	12.3	12.3
	IEER	19.7	20.2	20.2	18	20.3	19.7	20.3	20.3	20.3
	Airflow (CFM)	8000	14000	7000	6000	3000	8000	3000	3000	3000
	ESP (inH ₂ O)	1.5	2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	TSP (inH ₂ O)	2.36	4.52	2.25	2.53	1.77	2.88	1.77	1.77	1.77
	Altitude (ft)	0	0	0	0	0	0	0	0	0
	Motor Size (HP)	7.5	15	7.5	8	4	10	4	4	4
	Airflow (CFM)	N/A	8000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	ESP (inH ₂ O)	N/A	0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Motor Size(HP)	N/A	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Face Area (ft ²)	27	50	27	18	18	27	18	18	18
	Efficiency	2" MERV 8	MERV 8	2" MERV 8	2" MERV 8	2" MERV 8	2" MERV 8	2" MERV 8	2" MERV 8	2" MERV 8
	EDB (FF)	79.6	82	82.1	78.3	76	84.7	77	77	76
	EWB (FF)	65.3	66.9	64.4	62.7	66.6	63.4	62.7	62.7	62.7
	LDB (FF)	54.8	56.9	57.7	54.7	52.6	58.3	53.4	52.6	52.6
	LWB (FF)	54.6	56.2	57.5	54.6	52.5	58.1	53.2	52.5	52.5
	Total	257675	467579	208627	174901	88248	273438	89403	88248	88248
	Sensible	217510	384273	186733	155071	76671	230906	77567	76671	76671
	DB (FF)	95	95	95	95	95	95	95	95	95
	Stages	Modulating	Modulating	Modulating	Modulating	Modulating	Modulating	Modulating	Modulating	Modulating
	Qty	1	3	1	2	2	1	2	2	2
	Compressor Power (kW)	18	33	12.6	5.6	18	5.6	18	5.6	5.6
	Refrigerant	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Type	Hot Water	Hot Water	Hot Water	Hot Water	Hot Water	Hot Water	Hot Water	Hot Water	Hot Water
	FPI		9				12			
	Rows		1				2			
	Total Capacity (BTU/hr)		382360				303989			
	EDB (FF)		70				104.3			
	LDB (FF)		95				104.3			

NOTES:

- PROVIDE THE FOLLOWING OPTIONS FOR ALL UNITS:
 - HIGH STATIC DRIVE MOTOR. COORDINATE LEFT/RIGHT HAND FAN DRIVE IN FIELD.
 - UNITS SHALL BE HIGH EFFICIENCY.
 - 100% MODULATING ECONOMIZER OPERATION WITH DIFFERENTIAL ENTHALPY CONTROL.
 - FURNISH EXTRA DRIVE BELT AND EXTRA FILTER SET FOR EACH UNIT.
 - UNIT SHALL BE MOUNTED ON 24" HIGH VIBRATION ISOLATION ROOF CURB. HEIGHT INCLUDES BASE CURB AND VIBRATION ISOLATION RAILS.
 - POWERED CONVENIENCE OUTLET
- PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS FOR ALL UNITS:
 - UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.
 - ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
 - SINGLE POINT EXTERNAL POWER CONNECTION AT UNIT, UNIT-MOUNTED DISCONNECT SWITCH, AND FACTORY INSTALLED MOTOR STARTERS. VAV UNITS SHALL HAVE FACTORY MOUNTED VFD'S WITH H-O-A.
- PROVIDE POWER EXHAUST FOR THE FOLLOWING UNITS: RTU-1, RTU-3, RTU-4
- PROVIDE ENERGY RECOVERY FOR THE FOLLOWING UNITS: RTU-2, RTU-3, RTU-6

UNIT VENTILATOR SCHEDULE

DESIGNATION:	UV-1	UV-2
LOCATION	SEE PLAN	SEE PLAN
MANUFACTURER	DAIKIN	DAIKIN
MODEL	UAVS9H15	UAVS9H07
UNIT DIMENSIONS - WIDTH x HEIGHT x DEPTH IN	98.00 X 30.13 X 21.88	62.00 X 30.13 X 21.88
QUANTITY	54	14
WEIGHT LBS	600	370
HOT WATER COIL:		
NO. ROWS	3	3
E.W.T./L.W.T. (°F)	180/115	180/131.8
E.A.T./L.A.T. DB (°F)	60.7/102.3	66.6/125.6
FLUID TYPE	30" PROPYLENE GLYCOL	30" PROPYLENE GLYCOL
CAPACITY MBH-TOTAL	68.5	48.1
GPM	2	2
W.P.D. FT H ₂ O	0.37	0.64
COOLING COIL:		
NO. ROWS	3	3
E.A.T. DBWB (°F)	82.2/67.2	82.2/67.2
L.A.T. DBWB (°F)	63.2/58.8	65.3/60.1
CAPACITY MBH-TOTAL/SENS	43.1/31.4	18.4/13.8
FLOW RATE GPM	10.57	4.52
WPD FT H ₂ O	12.08	3.89
SUPPLY FAN:		
CFM	1518	752
OAI CFM	-	-
FAN MOTOR HP	0.250	0.333
VOLTS/Ø/Hz	115/60/1	115/60/1
MCA/MFA	6.3/15	6.3/15

- NOTES:**
- CONFIGURATION SHALL BE AS FOLLOWS:
 - VERTICAL UNIT.
 - TOP BAR GRILLE SUPPLY AIR OUTLET.
 - REAR DUCT COLLAR OUTSIDE AIR INLET.
 - FACTORY INSTALLED MOTORIZED DAMPERS FOR OAI & RA.
 - PROVIDE THE FOLLOWING FEATURES & OPTIONS FOR EACH UNIT:
 - UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.
 - COORDINATE RIGHT-HAND/LEFT-HAND COIL CONNECTIONS IN THE FIELD.
 - OPTIONAL PIPE TUNNEL TO ALLOW PIPING ACROSS THE UNIT.
 - KEY LOCK ACCESS DOORS.
 - FURNISH 2-WAY MODULATING CONTROL VALVE FOR EACH COIL, WITH PIPING PACKAGE AS PER DETAIL, 5 PSI MAX AT CONTROL VALVE.
 - FREEZE STAT ARRANGED TO OVERRIDE THE COIL CONTROL VALVE & SHUT DOWN UNIT AS PER THE SEQUENCE OF OPERATIONS.
 - WALL MOUNTED THERMOSTAT.
 - FACTORY FURNISHED LOCAL DISCONNECT SWITCH.
 - END COVERS.
 - FULLY MODULATING ASHRAE CYCLE II RA&OA DAMPERS AND ACTUATORS.
 - DISCONNECT SWITCH.
 - 4" SUB-BASE.
 - OPTIONAL 14 GAGE FRONT PANEL.
 - UNITS SHALL BE UL LISTED.
 - DOOR OUTSIDE AIR ECONOMIZER, WITH DIFF. ENTHALPY CONTROL.
 - (2) SETS OF SPARE FILTERS FOR EACH UNIT.
 - FINISH SHALL BE CUSTOM ENAMEL - SUBMIT COLOR CHART FOR APPROVAL.
 - FIELD MOUNTED RETURN AIR SMOKE DETECTOR.
 - FACTORY PROVIDED OUTSIDE AIR LOUVER, HORIZONTAL TYPE WITH FLANGE FRAME, COORDINATE STYLE AND COLOR WITH ARCHITECT. WALL OPENINGS: 48 1/2" LONG X 10 5/8" HIGH FOR UV-A; 60 1/2" LONG X 10 5/8" HIGH FOR UV-B.

PUMP SCHEDULE

DESIGNATION	P-1&2	P-3	P-4&5
LOCATION	BOILER ROOM	BOILER ROOM	BOILER ROOM
SYSTEM SERVED	DTS&R	DTS&R	BOILER
ARRANGEMENT	BASE MOUNTED	BASE MOUNTED	INLINE
MANUFACTURER	BELL & GOSSETT	BELL & GOSSETT	BELL & GOSSETT
MODEL	e-1510 4EB	e-1510 3BD	e-90 2AAC
TYPE	END SUCTION	END SUCTION	INLINE
IMPELLER DIA. IN	11	9.5	5.25
GPM	750	610	70
TOTAL DYNAMIC HEAD FT H ₂ O	90	70	20
RPM	1800	1800	1800
NPSH FT. H ₂ O	10.9	9.28	5.61
MOTOR HP	25	15	0.75
VOLTAGE/Ø/Hz	460/3/60	460/3/60	460/3/60
STARTER TYPE	VFD	VFD	-
STARTER LOCATION	MECHANICAL ROOM	MECHANICAL ROOM	MECHANICAL ROOM
INTERLOCK	-	ACC-1	BLR-1&2

- NOTES:**
- ALL PUMPS SHALL BE CAST IRON BODY, BRONZE FITTED, BRONZE IMPELLER. REFER TO SPECIFICATION FOR PUMP CONSTRUCTION.
 - ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY.
 - ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
 - MOTOR STARTERS AND DISCONNECT SWITCHES SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

CEILING DIFFUSER SCHEDULE

DESIGNATION	CD-1			
MODEL	OMNI			
MAX CORE VEL. FT/MIN	550			
MAX NC	25			
CONSTRUCTION	STEEL			
FRAME	LAY-IN			
DEFLECTION	4 WAY			
FACE SIZE	24"24 / 12"12			
	CFM RANGE	NECK SIZE Ø	CFM RANGE	NECK SIZE Ø
	0-100	6"	0-100	6"
	101-200	8"	101-200	8"
	201-350	10"	201-350	10"
	351-450	12"	351-450	12"
	451-600	14"	451-600	14"
	601-700	15"	601-700	15"

- NOTES:**
- CEILING SUPPLY DIFFUSERS ARE BASED ON TITUS.
 - ALL DIFFUSERS SHALL BE EQUIPPED WITH AN OPPOSED BLADE VOLUME DAMPER.
 - COORDINATE COLOR SELECTION WITH ARCH PLANS.
 - SUPPLY DIFFUSERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED, CONTRACTOR TO COORDINATE.
 - ALL LAY-IN DIFFUSERS SHALL HAVE A MODULE SIZE OF 24"24. FACE SIZES SHOWN IN SCHEDULE ARE FOR SURFACE MOUNT DIFFUSERS. NECK SIZES VARY ACCORDING TO THE SCHEDULE.
 - DIFFUSER BLOW PATTERN IS AS SHOWN ON DRAWINGS.

DUCTLESS SPLIT-SYSTEM AC UNIT SCHEDULE

INDOOR/OUTDOOR UNIT DESIGNATION	AC-1 / ACCU-1	AC-2 / ACCU-2	AC-3 / ACCU-3	AC-4 / ACCU-4
MANUFACTURER	DAIKIN	DAIKIN	DAIKIN	DAIKIN
NOMINAL COOLING CAPACITY TONS	2.5	1	1	1
COOLING CAPACITY BTU/HR	30,000	12,000	12,000	12,000
CFM LO-MID-HI	635-705-775	320-370-425	320-370-425	320-370-425
SEER	15.5	15.2	15.2	15.2
RS PIPE SIZE IN	3/8"	1/2"	1/2"	1/2"
RL PIPE SIZE IN	3/8"	1/2"	1/2"	1/2"
CONDENSATE DRAIN PIPE SIZE IN	1"	1"	1"	1"

ELECTRICAL DATA:	AC-1	AC-2	AC-3	AC-4
POWER INPUT - COOLING WATTS	4,130	1,190	1,190	1,190
VOLTS/Ø/Hz	208-230/1/60	208-230/1/60	208-230/1/60	208-230/1/60
BREAKER SIZE AMPS AT OUTDOOR UNIT	30A	15A	15A	15A

INDOOR EVAPORATOR UNIT DATA	AC-1	AC-2	AC-3	AC-4
LOCATION	MEDIA INTEGRATION 104E	DATA 153	DATA 211	DATA 332A
MODEL	PKA-A30KA	PA-A12HA	PA-A12HA	PA-A12HA
HEIGHT x WIDTH x DEPTH IN	14.375-46-11.5	11.625-35.5-9.75	11.625-35.5-9.75	11.625-35.5-9.75
WEIGHT LBS	46	29	29	29
TYPE	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED	WALL MOUNTED

OUTDOOR CONDENSING UNIT DATA:	AC-1	AC-2	AC-3	AC-4
LOCATION	ROOF	ROOF	ROOF	ROOF
MODEL	PUY-A30NHA3	PUY-A12NHA3	PUY-A12NHA3	PUY-A12NHA3
HEIGHT x WIDTH x DEPTH IN	37.25-37.5-13.25	23.5-31.5-13.25	23.5-31.5-13.25	23.5-31.5-13.25
WEIGHT LBS	163	90	90	90
REFRIGERANT TYPE	R410A	R410A	R410A	R410A

- NOTES:**
- PROVIDE THE FOLLOWING OPTIONS FOR EACH UNIT:
 - 0" LOW AMBIENT CONTROLS.
 - 7-DAY PROGRAMMABLE SYSTEM CONTROLLER.
 - FIELD SUPPLIED LOCAL DISCONNECT SWITCH AT EACH INDOOR UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
 - FIELD SUPPLIED WEATHERPROOF LOCAL DISCONNECT SWITCH AT EACH OUTDOOR UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
 - SINGLE POINT EXTERNAL POWER CONNECTION FOR EACH INDOOR/OUTDOOR SET OF UNITS SHALL BE AT THE OUTDOOR UNIT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING FROM THE OUTDOOR UNIT TO THE INDOOR UNIT.
 - THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE CONTROL WIRING BETWEEN THE OUTDOOR UNIT AND INDOOR UNIT.
 - OUTDOOR UNIT SHALL BE INSTALLED ON 24" HIGH ROOF CURB

RETURN REGISTER / TRANSFER GRILLE SCHEDULE

DESIGNATION	RR / TG			
MODEL	3 FS			
MAX NK VEL. FT/MIN	500			
MAX NC	25			
CONSTRUCTION	ALUMINUM			
BORDER/FRAME	SURFACE MOUNTED			
DEFLECTION	45° FIXED			
SPACING	3/4"			
	CFM RANGE	NOMINAL NECK SIZE	CFM RANGE	NOMINAL NECK SIZE
	0-150	8"Ø		
	151-250	10"Ø		
	251-350	12"Ø		
	351-725	18"Ø		
	726-950	22"Ø		
	951-1100	24"Ø		
	1101-1400	24"Ø		

- NOTES:**
- RETURN REGISTERS ARE BASED ON TITUS.
 - THE ABOVE SCHEDULE INDICATES NOMINAL REGISTER NECK SIZES. THE CONTRACTOR SHALL COORDINATE THE REGISTER SIZE IN THE FIELD ACCORDING TO THE ACTUAL DUCT DIMENSIONS AND MAINTAIN AN E-UIVALENT CORE AREA.
 - ALL REGISTERS SHALL BE EQUIPPED WITH AN OPPOSED BLADE VOLUME DAMPER.
 - SUBMIT COLOR CHART FOR REVIEW AND APPROVAL BY ARCHITECT.
 - RETURN REGISTERS SHALL HAVE FRAMES AND BORDERS SUITABLE FOR THE CONSTRUCTION IN WHICH THEY WILL BE INSTALLED. CONTRACTOR TO COORDINATE.

EQUIPMENT NOTES

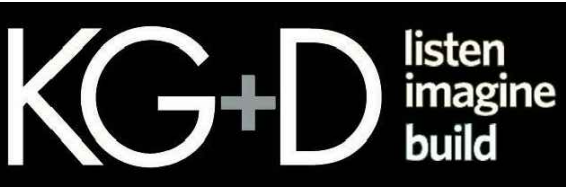
- PIPE PENETRATION ROOF CURBS: SHALL BE PATE MODEL PCA-5. PIPE CURB ASSEMBLY SHALL CONSIST OF 18 GAUGE GALVANIZED STEEL ROOF CURB, UNITARY CONSTRUCTION, WITH INTEGRAL BASE PLATE, 1-1/2" INSULATION, 2-2 TREATED WOOD NAILER, ACRYLIC CLAD THERMOPLASTIC COVER, FASTENING SCREWS, & GRADUATED STEP BOOTS WITH STAINLESS STEEL CLAMPS. CONTRACTOR TO SELECT CAP & BOOT PACKAGE BASED ON QUANTITY & SIZE OF PIPE PENETRATIONS. PROVIDE FLASHING AND COUNTER FLASHING FOR A WATER/TIGHT SEAL. CURBS SHALL BE CUSTOM FABRICATED, SUCH THAT THE CAP IS MOUNTED LEVEL. CONTRACTOR TO VERIFY EXACT ROOF PITCH ANGLE IN FIELD.
- DUCT SILENCERS: PROVIDE INLINE DUCT SILENCERS ON ALL PACKAGED ROOFTOP SA&RA DUCTWORK AND WHERE SHOWN ON PLAN. SILENCERS SHALL BE A MINIMUM OF 3' LONG. SIZE SHALL BE COORDINATED WITH DUCTWORK SO THAT THE FACE VELOCITY IS NO MORE THAN 750 FPM. TRANSITION DUCTWORK SILENCER INLET & OUTLET AS REQUIRED. SILENCER SHALL BE VIBRO-Acoustics MODEL RD-LV-F1
- FIRE DAMPERS: SHALL BE RUSKIN MODEL DBD-2, 1-1/2 HOUR UL555 RATED, SUITABLE FOR INSTALLATION IN WALL AND FLOOR PARTITIONS WITH FIRE RATINGS OF LESS THAN 3 HOURS. DAMPER SHALL BE A COMPLETE FACTORY PACKAGE INCLUDING U.L. APPROVED ANGLES, WALL SLEEVE, AND BREAKAWAY CONNECTIONS. 120V POWER OPEN SPRING CLOSED ACTUATOR. PROVIDE CLOSURE DEVICE WITH MANUAL RESET PROVIDE INDICATOR SWITCH PACKAGE. DAMPER SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS OF 2,000 FPM AND 4.0" SP. INSTALL DUCT SMOKE DETECTOR WITHIN 5' OF DAMPER. DUCT SMOKE DETECTOR SHALL BE PURCHASED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. DUCT SMOKE DETECTOR SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR.
- SMOKE DAMPERS: SHALL BE POTTORFF MODEL SD-141, CLASS 1 UL555S RATED, SUITABLE FOR INSTALLATION IN RATED WALL AND FLOOR PARTITIONS. DAMPER SHALL BE A COMPLETE FACTORY PACKAGE INCLUDING U.L. APPROVED ANGLES, WALL SLEEVE, AND BREAKAWAY CONNECTIONS. 120V POWER OPEN SPRING CLOSED ACTUATOR. PROVIDE CLOSURE DEVICE WITH MANUAL RESET PROVIDE INDICATOR SWITCH PACKAGE. DAMPER SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS OF 2,000 FPM AND 4.0" SP. INSTALL DUCT SMOKE DETECTOR WITHIN 5' OF DAMPER. DUCT SMOKE DETECTOR SHALL BE PURCHASED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. DUCT SMOKE DETECTOR SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR.
- COMBINATION FIRE SMOKE DAMPERS: SHALL BE POTTORFF MODEL FSD-151, UL 555 CLASS 1 WITH AIRFOIL BLADES, ACTUATOR AND CONTROLS SHALL BE SIDE MOUNT, 120V POWERED OPEN SPRING CLOSED, HORIZONTAL OR VERTICAL MOUNT. COORDINATE APPLICATION IN FIELD. OPTIONAL DR3-30 CLOSURE DEVICE WITH PI 50 INDICATOR SWITCH PACKAGE, OPTIONAL 18 GAGE SLEEVE COORDINATE LENGTH REQUIRED IN FIELD. 1" SIDE OR 2" SIDE RETAINING ANGLES. INSTALL DUCT SMOKE DETECTOR WITHIN 5' OF DAMPER. DUCT SMOKE DETECTOR SHALL BE PURCHASED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. DUCT SMOKE DETECTOR SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR.
- VOLUME CONTROL DAMPERS: FOR ALL ROUND & RECTANGULAR VOLUME CONTROL DAMPERS THAT ARE LOCATED ABOVE INACCESSIBLE CEILINGS, PROVIDE CABLE OPERATED DAMPERS. ROUND DAMPERS SHALL BE YOUNG BOWDEN MODEL 5020-CC. RECTANGULAR DAMPERS SHALL BE MODEL 830-CC. CABLE CONTROLS SHALL BE MODEL 270-275 FOR CONCEALED LOCATIONS & MODEL 270-896C FOR LOCATIONS WHERE CABLES TERMINATE IN FINISHED SPACES. COORDINATE LOCATIONS IN THE FIELD.
- MOTORIZED DAMPERS: SHALL BE RUSKIN MODEL CD40, 4" DEEP EXTRUDED ALUMINUM AIRFOIL DAMPER. DAMPER SHALL HAVE OPPOSED BLADES, MOTOR AND LINKAGE. DAMPERS SHALL BE 120V/1Ø/60Hz; 3 AMPS MAX. FURNISH DISCONNECT SWITCH.
- CONDENSATE PUMP CP-1: SHALL BE L

Westover Magnet Elementary School

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CONSTRUCTION DOCUMENTS

HOT WATER BOILER SCHEDULE

DESIGNATION	BLR-1	BLR-2
LOCATION	BOILER ROOM	BOILER ROOM
MODEL	FBN4001	FBN4001
GPM	41	41
WATER PRESSURE DROP PSI	10.9	10.9
EWTLWT (°F)	120/140	120/140
OPERATING WEIGHT LBS	5,200	5,200
GAS BURNER:		
GAS INPUT MBH	4,000	4,000
OUTPUT MBH	3,843	3,843
GAS CONNECTION	2 1/2"	2 1/2"
GAS PRESSURE MIN/MAX WC	4 / 14	4 / 14
ELECTRICAL DATA:		
VOLTS/Hz/Ø	480/60/3	480/60/3
FLA / MCA	6 / 7.5	6 / 7.5

- NOTES:
- BOILERS BASED ON LOCHINVAR.
 - PROVIDE BOILERS WITH 75 PSI ASME RELIEF VALVES, 3-1/4" PRESSURE AND TEMPERATURE GAUGES, AUTOMATIC RESET HIGH LIMIT A, UA-STAT, MANUAL RESET HIGH LIMIT A, UA-STAT, LOW WATER CUT OFF, A, UA-STAT FOR SUPPLY WATER TEMPERATURE CONTROL, & LOW-LOSS Y-STRAINER.
 - PROVIDE CONDENSATE DRAIN KIT W/ PH NEUTRALIZATION TANK.
 - FURNISH DISCONNECT SWITCH FOR INSTALLATION BY THE ELECTRICAL CONTRACTOR.
 - WATER FLOW SWITCH.
 - OUTDOOR RESET.
 - HOT WATER BASED ON 30 POLYPROPYLENE GLYCOL.
 - BMS PROTOCOL GATEWAY: COORDINATE WITH AUTOMATIC CONTROLS CONTRACTOR. PROVIDE LOCHINVAR "SMART SYSTEM" INTEGRATED CONTROLS.
 - CONTROLS SHALL BE CAPABLE ON CONTROLLING:
 - SEQUENCING OF BOILERS VIA 2-WIRE DAISY CHAIN CONNECTION BETWEEN THE UNIT CONTROLLERS.
 - MANUFACTURER TO PROVIDE SUPPLY MAIN TEMPERATURE SENSOR, CONTRACTOR SHALL FIELD INSTALL.
 - CONTROL OF BOILER MOTORIZED ISOLATION VALVE OR PRIMARY PUMP CONTRACTOR TO FIELD INSTALL VALVE AND WIRE TO BOILER.
 - BOILER LEAVING WATER RESET BASED ON OUTSIDE AIR TEMPERATURE. BOILER MANUFACTURER TO PROVIDE SENSOR. CONTRACTOR SHALL FIELD INSTALL AND WIRE.
 - BOILER SHALL BE CAPABLE OF RECEIVING DHW INPUT SENSOR OR STAT SIGNAL AND PRIORITIZE BOILER OPERATION BASED ON CALL FOR DOMESTIC HOT WATER. DHW PUMP RELAY SHALL BE INTEGRAL TO BOILER.
 - PROVIDE NIGHT-TIME SET BACK.
 - PROVIDE COLOR GRAPHIC DISPLAY FOR CUSTOMER INTERFACE. DISPLAY SHALL PROVIDE ENGLISH INSTRUCTIONS FOR CUSTOMER CONTROL OF SET-POINTS.
 - DISPLAY SHALL BE PASSWORD PROTECTED.
 - BOILER SYSTEM PUMP RELAY TO PROVIDE SIGNAL FOR SYSTEM PUMP OPERATION. SYSTEM PUMP TO BE POWERED REMOTELY.

HOT WATER UNIT HEATER SCHEDULE

DESIGNATION	UH-1
LOCATION	RE: PLAN
MANUFACTURER	AIRTHERM
MODEL	HA-136A
FAN:	
CFM	850
RPM	1000
MOTOR HP	1/20
HOT WATER COIL:	
CAPACITY MBH	35,900
E.A.T./L.A.T. (°F)	60/102
E.W.T./L.W.T. (°F)	140/120
GPM	3.6
ELECTRICAL DATA:	
VOLTS/Ø/Hz	115/1/60
AMPS	1.4

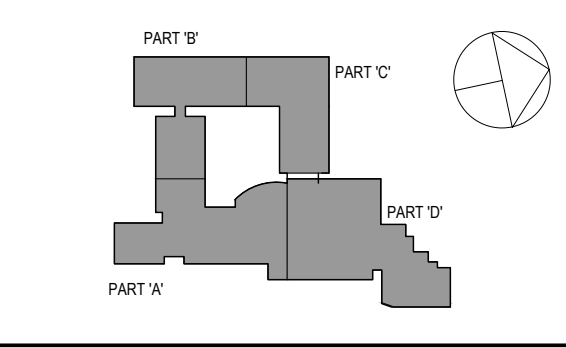
- NOTES:
- UNITS BASED ON AIRTHERM.
 - PROVIDE THE FOLLOWING FOR EACH UNIT:
 - DISCONNECT SWITCH.
 - THERMOSTAT

VARIABLE AIR VOLUME BOX SCHEDULE

DESIGNATION	V-1	V-2	V-3	V-4	V-5	V-6	V-7	V-8	V-9	V-10	V-11	V-12	V-13	V-14	V-15
INLET SIZE	6"Ø	6"Ø	6"Ø	8"Ø	10"Ø	10"Ø	8"Ø	8"Ø	10"Ø	10"Ø	10"Ø	10"Ø	8"Ø	8"Ø	10"Ø
AVAILABLE RANGE CFM	80-500	80-500	80-500	145-900	230-1400	230-1400	145-900	145-900	230-1400	145-900	230-1400	230-1400	145-900	145-900	230-1400
DESIGN CFM	500	500	500	700	1250	1000	800	800	1000	800	1200	1000	700	800	1000
HEATING CAPACITY MBH	6.3	6.3	6.3	8	12	11	7.6	7.6	19	15.1	23	19	13.2	15.1	19
E.W.T./L.W.T. (°F)	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120	140 / 120
E.A.T./L.A.T. (°F)	55 / 92	55 / 92	55 / 92	55 / 92	55 / 92	55 / 92	55 / 92	55 / 92	55 / 92	55 / 92	55 / 92	55 / 92	55 / 92	55 / 92	55 / 92
GPM	.6	.6	.6	.6	.6	.6	1	1	1.4	.9	2.1	1.4	1.2	.9	1.4
ASSOCIATED AHU	RTU-4	RTU-4	RTU-4	RTU-4	RTU-4	RTU-4	RTU-4	RTU-4	RTU-4	RTU-3	RTU-3	RTU-3	RTU-3	RTU-3	RTU-3

- NOTES:
- VAV BOXES BASED ON TITUS DESV.
 - VAV BOXES SHALL BE SINGLE DUCT, COOLING ONLY OR COOLING/HOT WATER HEATING AS INDICATED WITH DIGITAL ELECTRONIC PRESSURE INDEPENDENT CONTROLS SUPPLIED BY CONTROLS CONTRACTOR AND MOUNTED BY THE TERMINAL UNIT MANUFACTURER. CONTROL ENCLOSURE SHALL NOT EXCEED 10.25" HEIGHT FOR A LOW HEIGHT OPTION.
 - CONTROLS SHALL BE COMPATIBLE WITH PNEUMATIC INLET VELOCITY SENSORS SUPPLIED BY THE TERMINAL MANUFACTURER. THE SENSOR SHALL BE MULTI-POINT CENTER AVERAGING TYPE, WITH A MINIMUM OF FOUR MEASURING PORTS PARALLEL TO THE TAKE-OFF POINT FROM THE SENSOR. SENSORS WITH MEASURING PORTS IN SERIES ARE NOT ACCEPTABLE. THE SENSOR MUST PROVIDE A MINIMUM DIFFERENTIAL PRESSURE SIGNAL OF 0.03 INCH WG. AT AN INLET VELOCITY OF 500 FPM.
 - THE TERMINAL CASING SHALL BE MINIMUM 22-GAUGE GALVANIZED STEEL, INTERNALLY LINED WITH 1-INCH MATTE FACED, NATURAL FIBER INSULATION THAT COMPLIES WITH UL 181 AND NFPA 90A. THE LINER SHALL COMPLY WITH ASTM G21 AND G22 FOR FUNGI AND BACTERIAL RESISTANCE. FIBERGLASS SHALL NOT BE ACCEPTED.
 - 30 POLYPROPYLENE GLYCOL PROVIDED TO HOT WATER COILS.
 - THE TERMINAL MANUFACTURER SHALL PROVIDE A CLASS II 24 VAC TRANSFORMER AND DISCONNECT SWITCH. BOX SHALL BE U.L. LISTED AND LABELED. ELECTRICAL CONTRACTOR SHALL INSTALL & PROVIDE POWER/CIRCUITRY TO DISCONNECT SWITCH AND TRANSFORMER.
 - AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL ALL VAV BOX CONTROLS & CONTROL WIRING.
 - MAXIMUM RADIATED NC< 30, MAXIMUM DISCHARGE NC< 28.
 - COORDINATE RIGHT HAND / LEFT HAND CONNECTIONS AND CONTROL PANEL IN FIELD.

SPN 135-0278RR



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Professional Seal

FAN SCHEDULE

DESIGNATION	EXF-1	EXF-2	EXF-3	EXF-4	EXF-5	EXF-6	EXF-7	EF-1	EF-2	EF-6	EF-7	EF-8	EF-9	EF-17	EF-18	EF-19
LOCATION	1ST FLOOR	1ST FLOOR	2ND FLOOR	2ND FLOOR	2ND FLOOR	2ND FLOOR	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
AREA SERVED	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	SEE PLAN	GREEN ROOM	PART A STORAGE	PART A STORAGE	PART D TOILETS	PART D STORAGE	PART D TOILETS	PART D TOILETS	ELECTRIC ROOM	PART A STORAGE	NURSE
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL	E-B-9-10	E-B-9-10	E-P-18-30	E-P-18-30	E-B-16-20	E-B-15-15	GB-071	GB-141	GB-141	GB-141	GB-141	GB-161	GB-101	GB-081	GB-081	CUBE-099
WEIGHT LBS	156	156	263	263	212	202	60	86	86	86	88	61	60	60	58	60
FAN TYPE	INLINE	INLINE	INLINE	INLINE	INLINE	INLINE	ROOF DOWNBLAST	ROOF DOWNBLAST	ROOF DOWNBLAST	ROOF DOWNBLAST	ROOF DOWNBLAST	ROOF DOWNBLAST	ROOF DOWNBLAST	ROOF DOWNBLAST	ROOF UPBLAST	ROOF DOWNBLAST
DRIVE TYPE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT	BELT
CFM	1600	1600	4800	3500	3500	2750	75	1600	1800	1500	3000	1000	500	600	300	500
HP	0.78	0.78	1.78	1.78	1.37	1.08	1/2	1/2	3/4	3/4	3/4	3/4	1/2	1/2	1/4	1/2
RPM	2922	2922	1454	1454	1521	1630	1000	1265	1550	1140	1250	1555	1490	1725	1140	1490
SP IN H ₂ O	1.5	1.5	1.5	1.5	1.5	1.5	.375	.75	1	.5	.75	.5	.5	.5	.5	.5
VOLTS/Hz	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	120/1/60	120/1/60	120/1/60	120/1/60	460/3/60	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60
STARTER TYPE	VFD	VFD	VFD	VFD	VFD	VFD										

- NOTES:
- ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY.
 - ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
 - FURNISH RUBBER IN SHEAR OR SPRING VIBRATION ISOLATORS AS PER THE SPECIFICATION.
 - FURNISH WALL MOUNTED SPEED CONTROLLER OR THERMOSTAT AS INDICATED ON PLAN.
 - FURNISH MOTOR AND BELT GUARDS FOR ALL EXTERNAL MOTOR DRIVES.
 - MOTOR STARTER AND DISCONNECT SWITCH FOR EACH FAN SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. EACH ROOFTOP FAN SHALL BE FURNISHED WITH WEATHERPROOF UNIT-MOUNTED LOCAL DISCONNECT SWITCH.
 - PROVIDE MOTORIZED DAMPER INTERLOCKED WITH EACH FAN
 - PROVIDE 24" HIGH ROOF CURB FOR ALL ROOFTOP FANS

3	8/6/2019	ISSUED FOR BID
2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING

Mod: _____ Date: _____ Issue: _____

Sheet Title: _____

MECHANICAL SCHEDULES

Job No.	NKGD0206.00	Date	08/6/2019
Scale	AS NOTED	Drawn /	Checked

Sheet Number

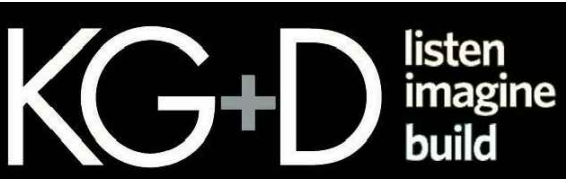
M602

Westover Magnet Elementary School

City of Stamford - Stamford Public Schools

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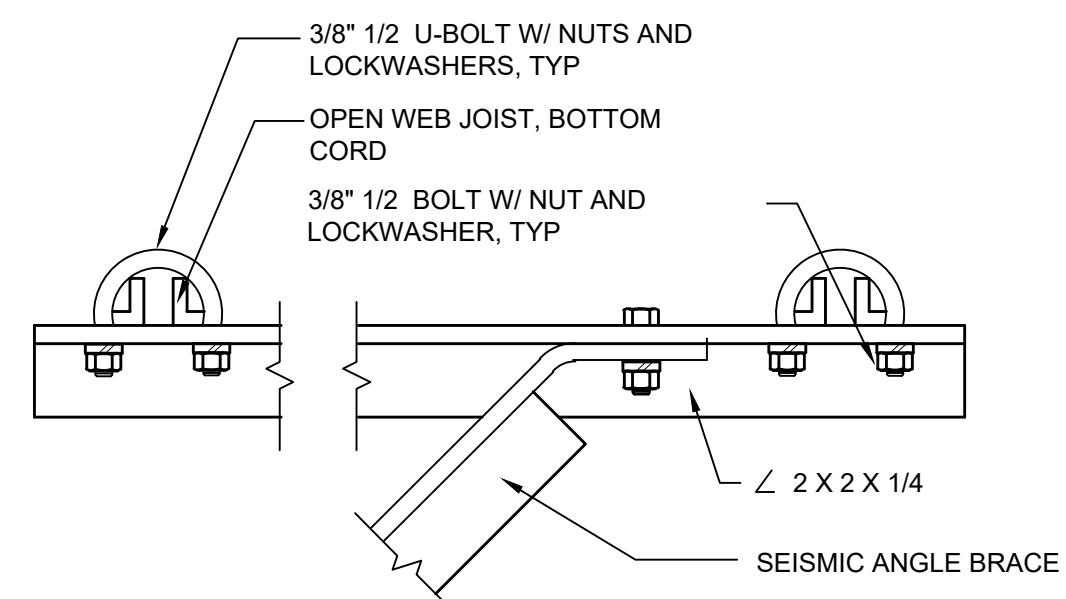
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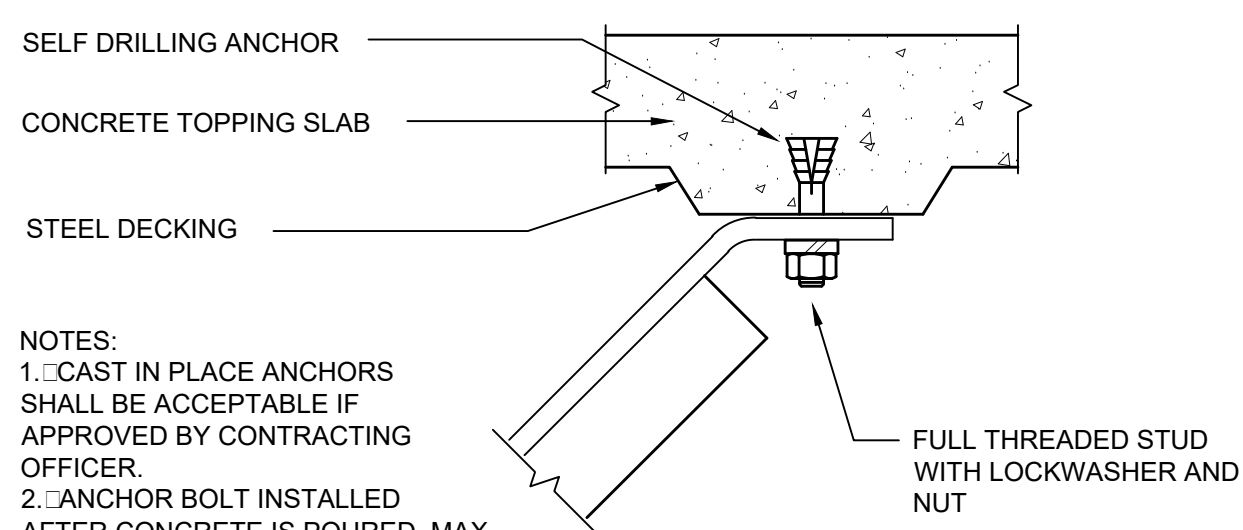
CONSTRUCTION DOCUMENTS

VENTILATION INDEX - ROOFTOP UNITS													
Served By	Room #	Room Name	Floor Area (Sq ft)	Occupancy Type	People/1000 sq ft	# of Occ	Maximum Occupants	HAP SA (CFM)	OA per Person (CFM)	OA per sq ft (CFM)	Code OA (CFM)	Design OA (CFM)	
RTU-1	104	Media	3900	Media Center	25	98	96	2883.4	10	0.12	1428	2884	1428
RTU-1	237	Media Classroom	980	Computer Lab	25	25	19	678.9	10	0.12	307.6	679	308
RTU-1	238	Media Work Room	326	Media Center	25	9	9	264.4	10	0.12	129.1	265	130
RTU-1	239	Media Storage	161	Storage	0	0	0	80.5	5	0.06	9.7	81	10
RTU-1	240	Media Integrated Communications	235	Computer Lab	0	0	0	117.5	5	0.06	14.1	118	15
RTU-1	237A	Media Storage	980	Computer Lab	25	25	19	678.9	10	0.12	307.6	679	308
RTU-2	287	Lobby	1356	Corridor	0	0	0	1873.7	5	0.06	81.5	1874	82
RTU-2	288	Auditorium	4258	Auditoriums	150	639	639	3450.5	5	0.06	3450.5	3451	3451
RTU-2	289	Stage	1738	Auditoriums	150	261	122	1324.3	10	0.06	1324.3	1325	1325
RTU-3	268	Dance	1057	Music/Theater/Dance	35	37	36	740.1	10	0.06	423.4	741	424
RTU-3	269	Dance	1116	Music/Theater/Dance	35	40	36	829.3	10	0.12	483.9	830	484
RTU-3	272	Drama	742	Music/Theater/Dance	35	26	29	759.6	10	0.06	304.5	760	305
RTU-3	273	Drama	795	Music/Theater/Dance	35	28	28	847.1	10	0.12	375.4	848	376
RTU-3	274	Vocal Music	652	Music/Theater/Dance	35	23	24	420.5	10	0.12	318.2	421	319
RTU-3	275	Vocal Music	695	Music/Theater/Dance	35	25	25	750.9	10	0.12	333.4	751	334
RTU-3	276	Inst. Music	439	Music/Theater/Dance	35	16	18	337.7	10	0.12	232.7	338	233
RTU-3	277	Vocal Storage	210	Storage	0	0	0	105	5	0.06	12.6	105	13
RTU-4	100	Comdor	1334	Comdor	0	0	0	667	0	0.06	80	667	80
RTU-4	107	Work Room	240	Office	0	0	0	120	5	0.06	14.4	120	15
RTU-4	108	Main Office	739	Office	5	4	4	369.5	5	0.06	64.3	370	65
RTU-4	113	Office Supply Storage	141	Storage	0	0	0	70.5	0	0.06	8.5	71	9
RTU-4	116	Prncipal	197	Office	5	1	1	98.5	5	0.06	16.8	99	17
RTU-4	117	Conference Room	197	Conference Room	50	10	1	98.5	5	0.06	16.8	99	17
RTU-4	118	Asst. Principal	158	Office	5	1	1	79	5	0.06	14.5	79	15
RTU-4	120	CS1 Conference Room	269	Conference Room	50	14	1	134.5	5	0.06	21.1	135	22
RTU-4	121	Health Clinic	485	Office	0	3	3	242.5	5	0.06	44.1	243	45
RTU-4	123	Speech	268	Office	5	2	1	134	5	0.06	21.1	134	22
RTU-4	124	Storage	263	Storage	0	0	0	131.5	5	0.06	15.8	132	16
RTU-4	125	Play	133	Office	5	1	1	66.5	5	0.06	13	67	13
RTU-4	126	Social Work	150	Office	5	1	1	75	0	0.06	14	75	14
RTU-4	127	Resource	300	Office	5	2	2	150	5	0.06	28	150	28
RTU-4	127	Resource	277	Office	0	0	0	138.5	5	0.06	16.6	139	17
RTU-4	128	PTO Room	408	Office	5	3	2	204	5	0.06	34.5	204	35
RTU-4	129	Pas	700	Comdor	0	0	0	350	0	0.06	42	350	42
RTU-5	241	Hall	1065	Comdor	0	0	0	532.5	5	0.06	63.9	533	64
RTU-6	242	Teacher Room	567	Classrooms (9 Plus)	35	20	25	313.2	5	0.12	193	314	193
RTU-6	243	Teacher Work Room	350	Classrooms (9 Plus)	35	13	20	253.8	5	0.12	142	254	142
RTU-6	255	Cafeteria	4000	Cafeteria	100	400	400	5929.2	7.5	0.18	3720	5930	3720
RTU-7	105	Computer Room	815	Computer Lab	25	21	20	591.5	10	0.12	295.8	592	298
RTU-8	102	Lobby	1563	Comdor	0	0	0	781.5	5	0.06	93.8	782	94

VENTILATION INDEX - UNIT VENTILATORS													
Served By	Room #	Room Name	Floor Area (Sq ft)	Occupancy Type	People/1000 sq ft	# of Occ	Maximum Occupants	HAP SA (CFM)	OA per Person (CFM)	OA per sq ft (CFM)	Code OA (CFM)	Design OA (CFM)	
UV-1	106	FRC 1	1000	Classroom (ages 5-8)	25	25	25	537.8	10	0.12	370	538	370
UV-1	107	FRC 2	925	Classroom (ages 5-8)	25	24	25	517.2	10	0.18	416.5	518	417
UV-1	103	Reading	1818	Classroom (ages 5-8)	25	21	20	568.6	10	0.12	288.2	569	288
UV-1	A100	Kindergarten Classroom	1025	Classroom (ages 5-8)	25	26	26	770.7	10	0.12	383	771	383
UV-1	A101	Kindergarten Classroom	1025	Classroom (ages 5-8)	25	26	25	574.4	10	0.12	373	575	373
UV-1	A102	Kindergarten Classroom	1025	Classroom (ages 5-8)	25	26	26	770.7	10	0.12	383	771	383
UV-1	A103	Kindergarten Classroom	1025	Classroom (ages 5-8)	25	26	25	574.4	10	0.12	373	575	373
UV-1	A104	Kindergarten Classroom	1025	Classroom (ages 5-8)	25	26	26	770.7	10	0.12	383	771	383
UV-1	A105	A-Classroom Team Leader	1025	Classroom (ages 5-8)	25	26	25	574.4	10	0.12	373	575	373
UV-1	A106	Kindergarten Classroom	1033	Classroom (ages 5-8)	25	26	26	746	10	0.12	384	746	384
UV-1	A107	A-Classroom Team Leader	1025	Classroom (ages 5-8)	25	26	26	628.6	10	0.12	383	629	383
UV-1	APS-128	Problem Solving	810	Classroom (ages 5-8)	25	21	20	405	10	0.12	297.2	405	298
UV-1	APS-128	Art Room	824	Classroom (ages 5-8)	25	26	26	628.6	10	0.12	383	629	383
UV-1	APS-129	Problem Solving	824	Classroom (ages 5-8)	25	21	20	562.7	10	0.12	298.9	563	299
UV-1	APS-130	Art Room	824	Classroom (ages 5-8)	25	22	20	628.6	10	0.12	383	629	383
UV-1	B108	1st Grade B-Classroom	854	Classroom (ages 5-8)	25	22	21	503.1	10	0.12	312.5	504	313
UV-1	B109	B-Classroom Team Leader	823	Classroom (ages 5-8)	25	24	23	528	10	0.12	340.8	528	341
UV-1	B110	1st Grade B-Classroom	820	Classroom (ages 5-8)	25	21	20	486.7	10	0.12	298.4	487	299
UV-1	B112	1st Grade B-Classroom	820	Classroom (ages 5-8)	25	21	20	486.7	10	0.12	298.4	487	299
UV-1	B114	1st Grade Special Education	510	Classroom (ages 5-8)	25	13	15	383.1	10	0.12	211.2	384	212
UV-1	B115	1st Grade B-Classroom	815	Classroom (ages 5-8)	25	21	20	478.7	10	0.12	297.8	479	298
UV-1	B116	1st Grade B-Classroom	815	Classroom (ages 5-8)	25	21	20	478.7	10	0.12	297.8	479	298
UV-1	B117	1st Grade B-Classroom	815	Classroom (ages 5-8)	25	21	20	478.7	10	0.12	297.8	479	298
UV-1	B118	2nd Grade B-Classroom	821	Classroom (ages 5-8)	25	21	21	496.8	10	0.12	308.5	497	309
UV-1	B119	2nd Grade B-Classroom	815	Classroom (ages 5-8)	25	21	20	478.7	10	0.12	297.8	479	298
UV-1	B120	2nd Grade B-Classroom	819	Classroom (ages 5-8)	25	21	20	486.4	10	0.12	298.2	487	299
UV-1	B121	2nd Grade B-Classroom	815	Classroom (ages 5-8)	25	21	20	478.7	10	0.12	297.8	479	298
UV-1	B122	2nd Grade B-Classroom	821	Classroom (ages 5-8)	25	21	21	496.8	10	0.12	308.5	497	309
UV-1	B123	2nd Grade B-Classroom	889	Classroom (ages 5-8)	25	23	22	522.3	10	0.12	326.7	523	327
UV-1	B124	B-Classroom Team Leader	965	Classroom (ages 5-8)	25	25	25	493.2	10	0.12	308.2	494	309
UV-1	B127	Classroom	664	Classroom (ages 5-8)	25	17	17	505.7	10	0.12	245.7	506	250
UV-1	C201	Third Grade C-Classroom	815	Classroom (9 Plus)	35	29	29	572.6	10	0.12	307.8	573	308
UV-1	C202	C-Classroom Team Leader	882	Classroom (9 Plus)	35	31	22	619.8	10	0.12	325.8	620	328
UV-1	C203	Third Grade C-Classroom	815	Classroom (9 Plus)	35	29	29	572.6	10	0.12	307.8	573	308
UV-1	C204	Third Grade C-Classroom	820	Classroom (9 Plus)	35	29	29	589.7	10	0.12	308.4	590	309
UV-1	C205	Third Grade C-Classroom	815	Classroom (9 Plus)	35	29	29	572.6	10	0.12	307.8	573	308
UV-1	C207	Third Grade C-Classroom	815	Classroom (9 Plus)	35	29	29	572.6	10	0.12	307.8	573	308
UV-1	C208	Third Grade C-Classroom	815	Classroom (9 Plus)	35	29	29	572.6	10	0.12	307.8	573	308
UV-1	C209	Fourth Grade C-Classroom	815	Classroom (9 Plus)	35	29	29	572.6	10	0.12	307.8	573	308
UV-1	C210	Fourth Grade C-Classroom	820	Classroom (9 Plus)	35	29	29	589.7	10	0.12	308.4	590	309
UV-1	C211	Fourth Grade C-Classroom	815	Classroom (9 Plus)	35	29	29	572.6	10	0.12	307.8	573	308
UV-1	C212	Fourth Grade C-Classroom	820	Classroom (9 Plus)	35	29	29	589.7	10	0.12	308.4	590	309
UV-1	C213	C-Classroom Team Leader	815	Classroom (9 Plus)	35	29	29	572.6	10	0.12	307.8	573	308
UV-1	C214	Fourth Grade C-Classroom	820	Classroom (9 Plus)	35	29	29	589.7	10	0.12	308.4	590	309
UV-1	C215	Fourth Grade C-Classroom	872	Classroom (9 Plus)	35	31	22	617.3	10	0.12	324.6	618	325
UV-1	C216	D-Classroom Team Leader	1006	Classroom (9 Plus)	35	36	26	598	10	0.12	380.7	598	381
UV-1	D218	Fifth Grade D-Classroom	793	Classroom (9 Plus)	35	28	20	467.2	10	0.12	295.2	468	296
UV-1	D219	D-Classroom Team Leader	947	Classroom (9 Plus)	35	30	22	626.5	10	0.12	321.6	627	322
UV-1	D220	Fifth Grade D-Classroom	793	Classroom (9 Plus)	35	28	20	467.2	10	0.12	295.2	468	296
UV-1	D221	Fifth Grade D-Classroom	802	Classroom (9 Plus)	35	29	29	572.6	10	0.12	307.8	573	308
UV-1	D222	Fifth Grade D-Classroom	793	Classroom (9 Plus)	35	28	20	467.2	10	0.12	295.2	468	296
UV-1	D223	Fifth Grade D-Classroom	802	Classroom (9 Plus)	35	29	29	572.6	10	0.12	307.8	573	308
UV-1	D225	Fifth Grade D-Classroom	802	Classroom (9 Plus)	35	29	29	572.6	10	0.12	307.8	573	308
UV-2	131	ELP	368	Classroom (ages 5-8)	25	10	9	226.1	10	0.12	134.2	227	135
UV-2	132	Reading	429	Classroom (ages 5-8)	25	11	11	295.1	10	0.12	161.5	296	162
UV-2	136	Staff	753	Classroom (ages 5-8)	25	19	18	393.7	10	0.18	315.5	394	316
UV-2	141	Book Storage	411										

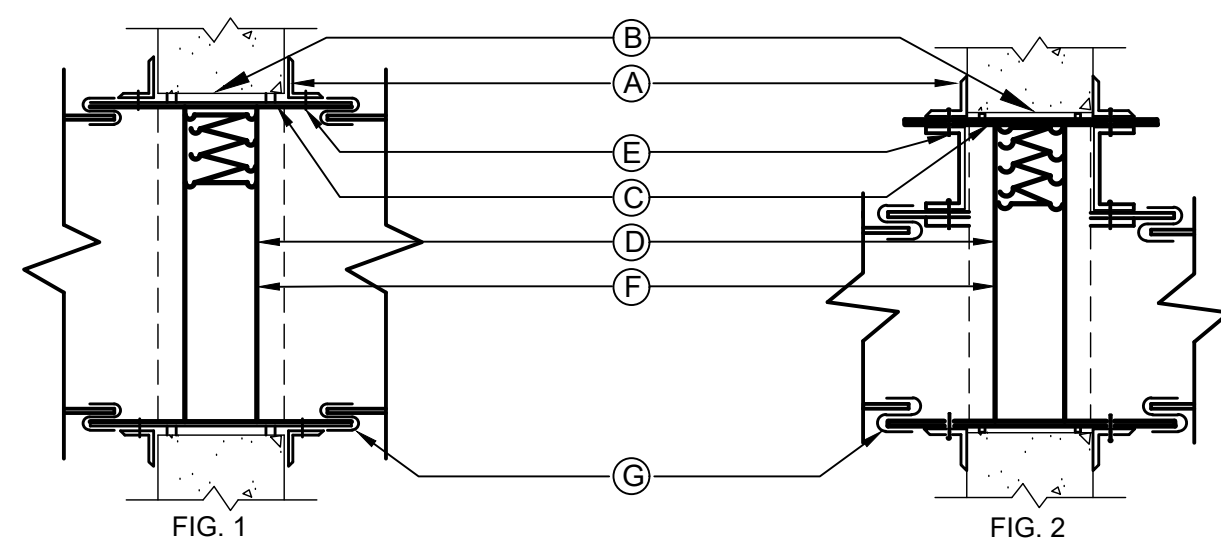


SEISMIC BRACE ATTACHMENT FROM JOIST



SEISMIC BRACE ATTACHMENT FROM METAL DECK WITH CONCRETE SLAB

12 SEISMIC ANGLE BRACING DETAIL
SCALE: NONE

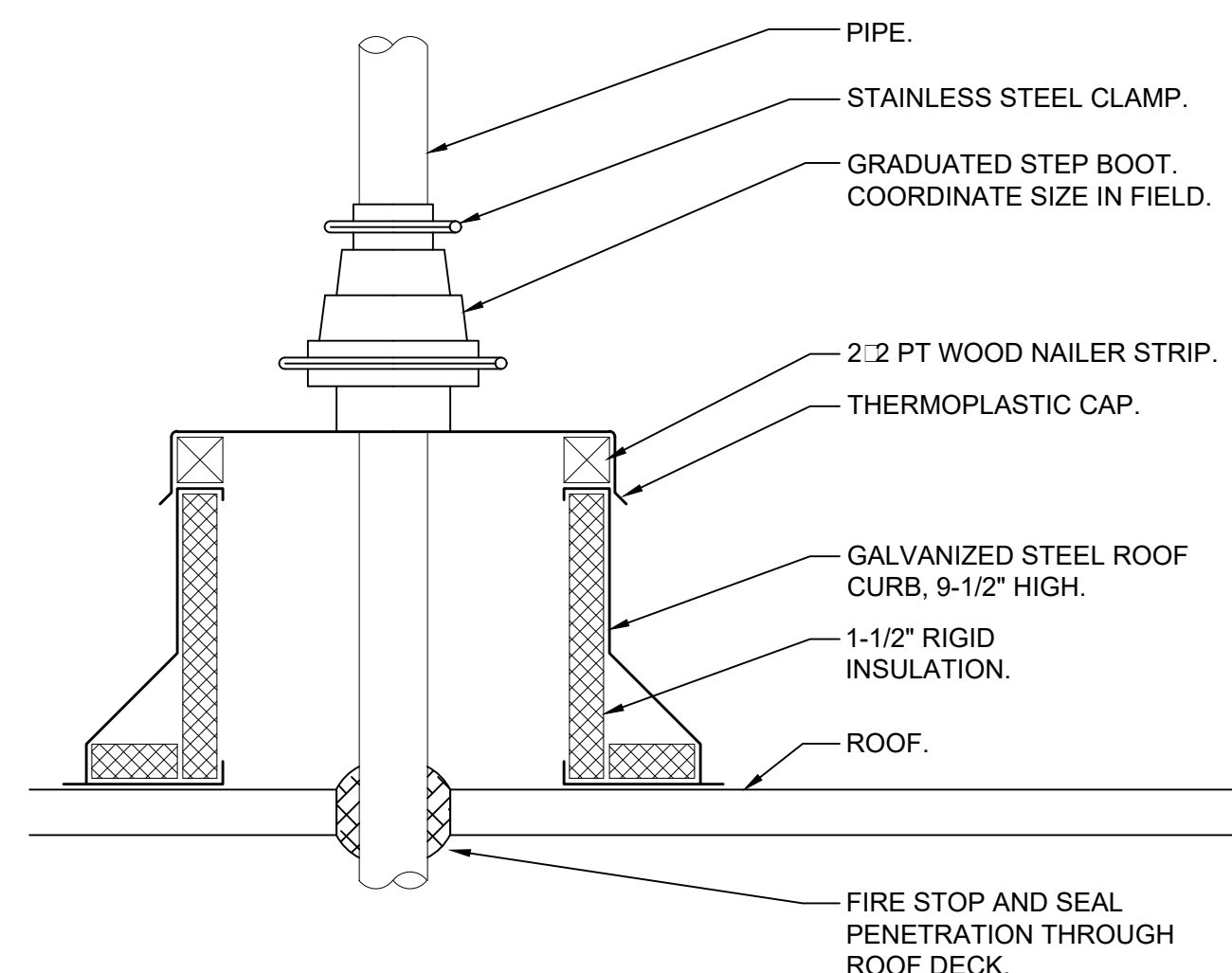


NOTES:

- A. RETAINING ANGLES SHALL BE A MINIMUM 1-1/2\"/>

- 1. FIRE DAMPERS TO BE CONSTRUCTED AND INSTALLED ACCORDING TO NFPA 90A, UL LABELS AND THE LATEST ISSUE OF S.M.A.C.N.A. CHAPTER 2.
- 2. CURTAIN TYPE FIRE DAMPERS SHOWN, MULTI-BLADE PIVOTED FIRE DAMPERS MEETING THE ABOVE STANDARD WILL BE ACCEPTABLE.
- 3. PROVIDE ACCESS DOORS, INSTALL 1\"/>

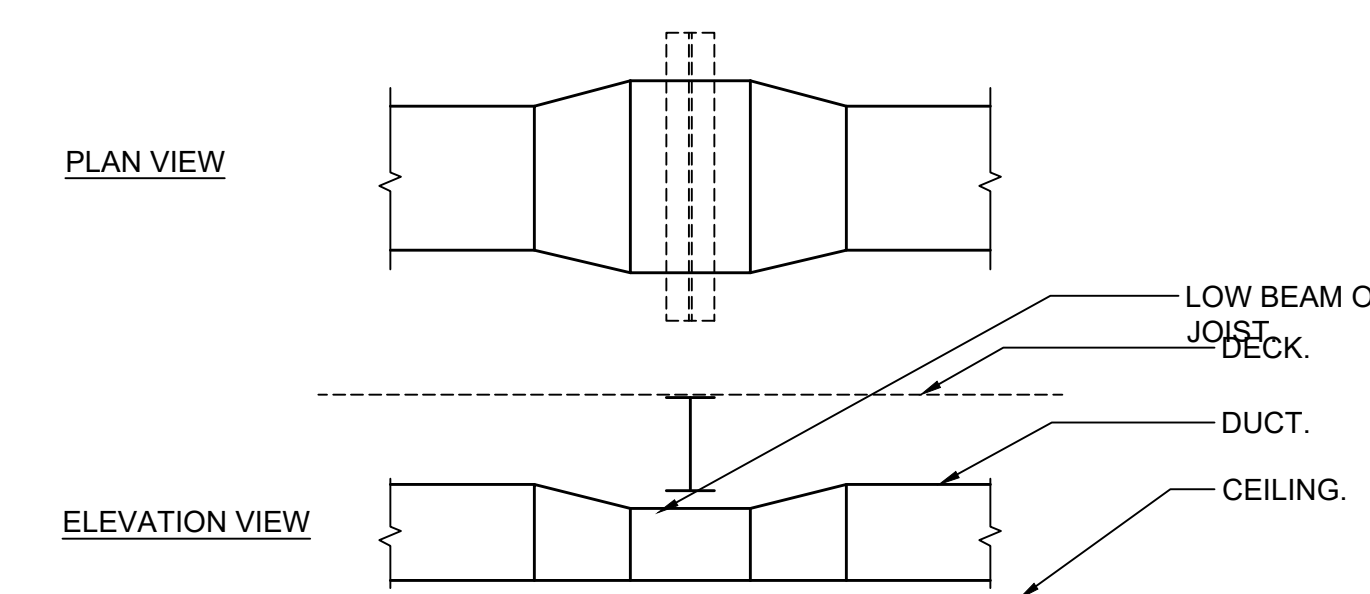
9 SHUTTER TYPE FIRE DAMPER AND SLEEVE DETAIL
SCALE: NONE



NOTES:

- 1. PIPE PENETRATION ROOF CURBS SHALL BE PATE MODEL PCA-5, 9-1/2\"/>

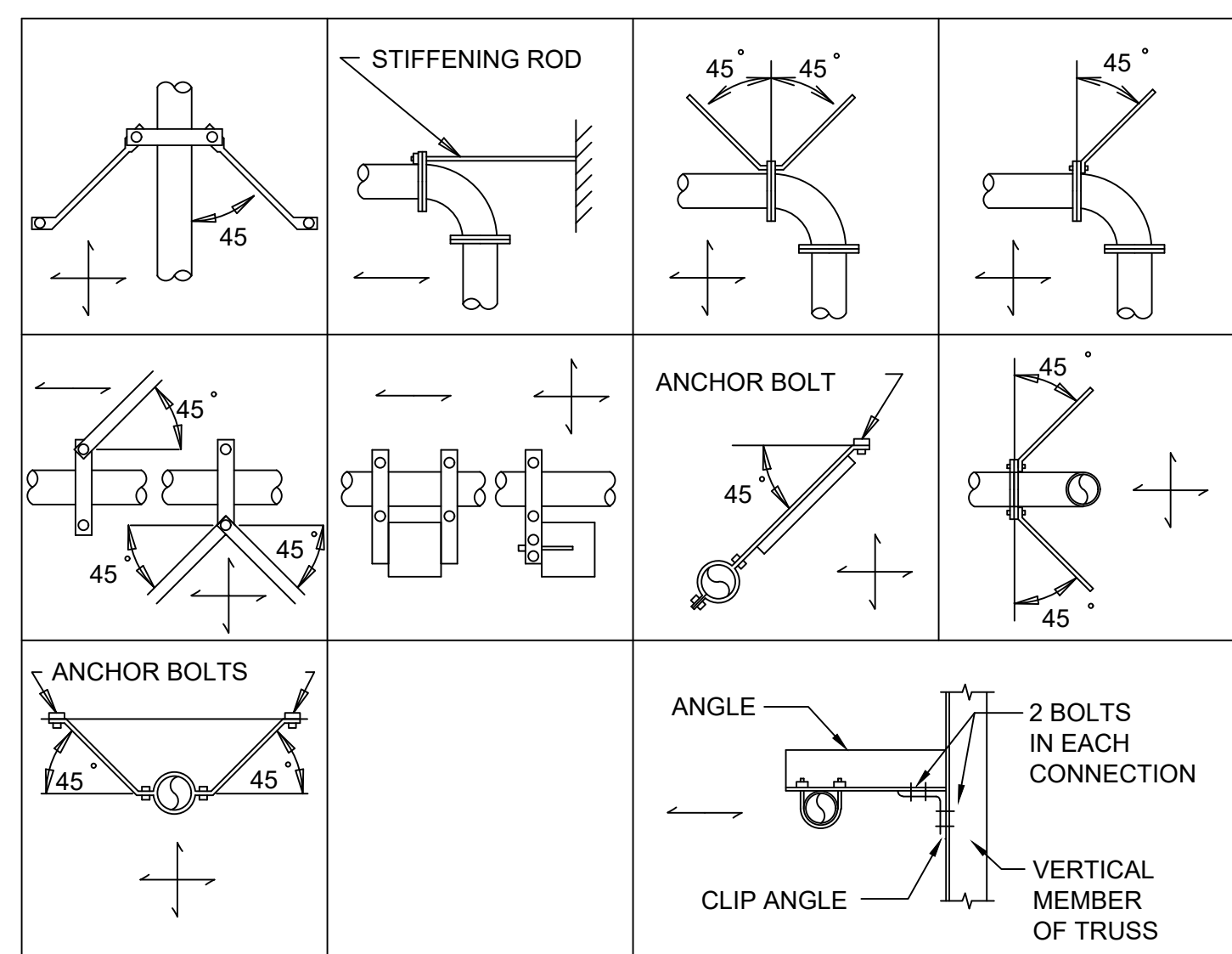
6 ROOF PIPE PENETRATION CURB ASSEMBLY DETAIL
SCALE: NONE



NOTES:

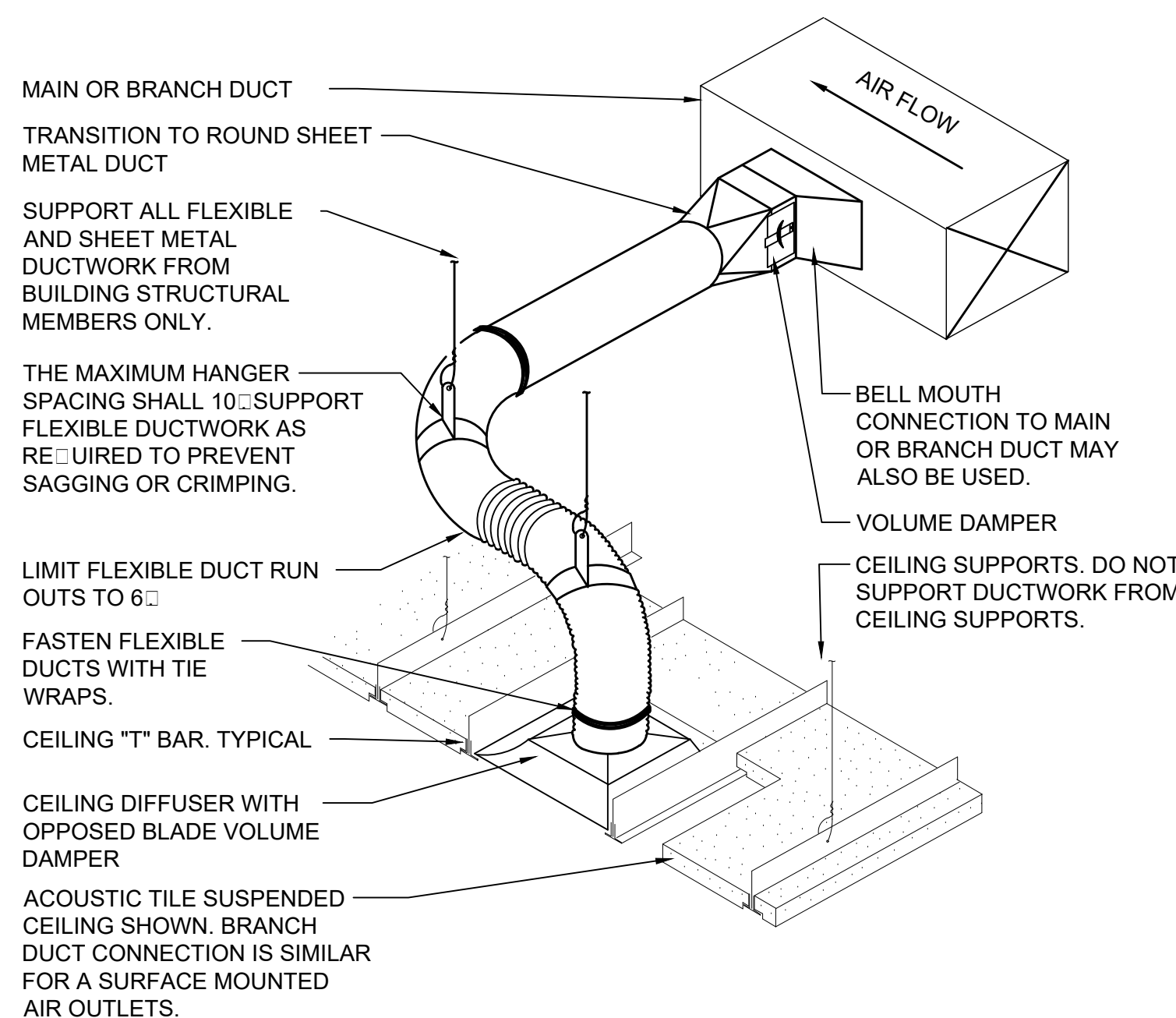
- 1. WHERE INDICATED ON THE PLANS, OR REQUIRED DUE TO FIELD CONDITIONS, THE CONTRACTOR SHALL ROUTE DUCTWORK UNDER LOW BEAMS OR JOISTS IN THE MANNER INDICATED ABOVE.
- 2. REDUCE DUCT HEIGHT AT THE CROSSING IN ORDER TO FIT UNDER THE BEAM OR JOIST.
- 3. INCREASE DUCT WIDTH AT THE CROSSING IN ORDER TO MAINTAIN THE SAME CROSS SECTIONAL AREA.
- 4. USE SMACNA APPROVED TRANSITIONS.

3 DUCT UNDER LOW BEAM DETAIL
SCALE: NONE



INDICATES DIRECTION OF RESTRAINT

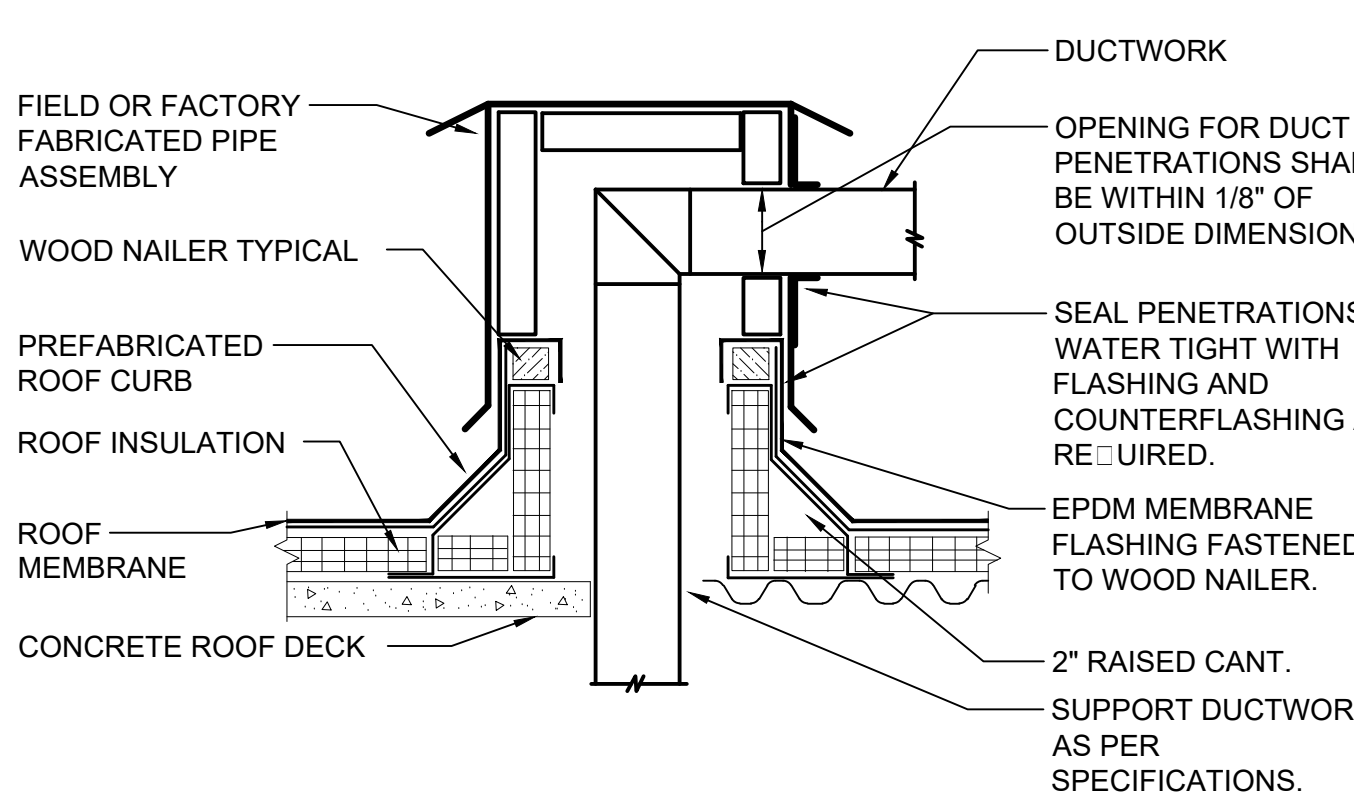
11 SEISMIC SWAY BRACING GENERAL
SCALE: NONE



NOTES:

- 1. THIS BRANCH DUCT ARRANGEMENT IS SIMILAR FOR PLENUM SLOT DIFFUSERS.

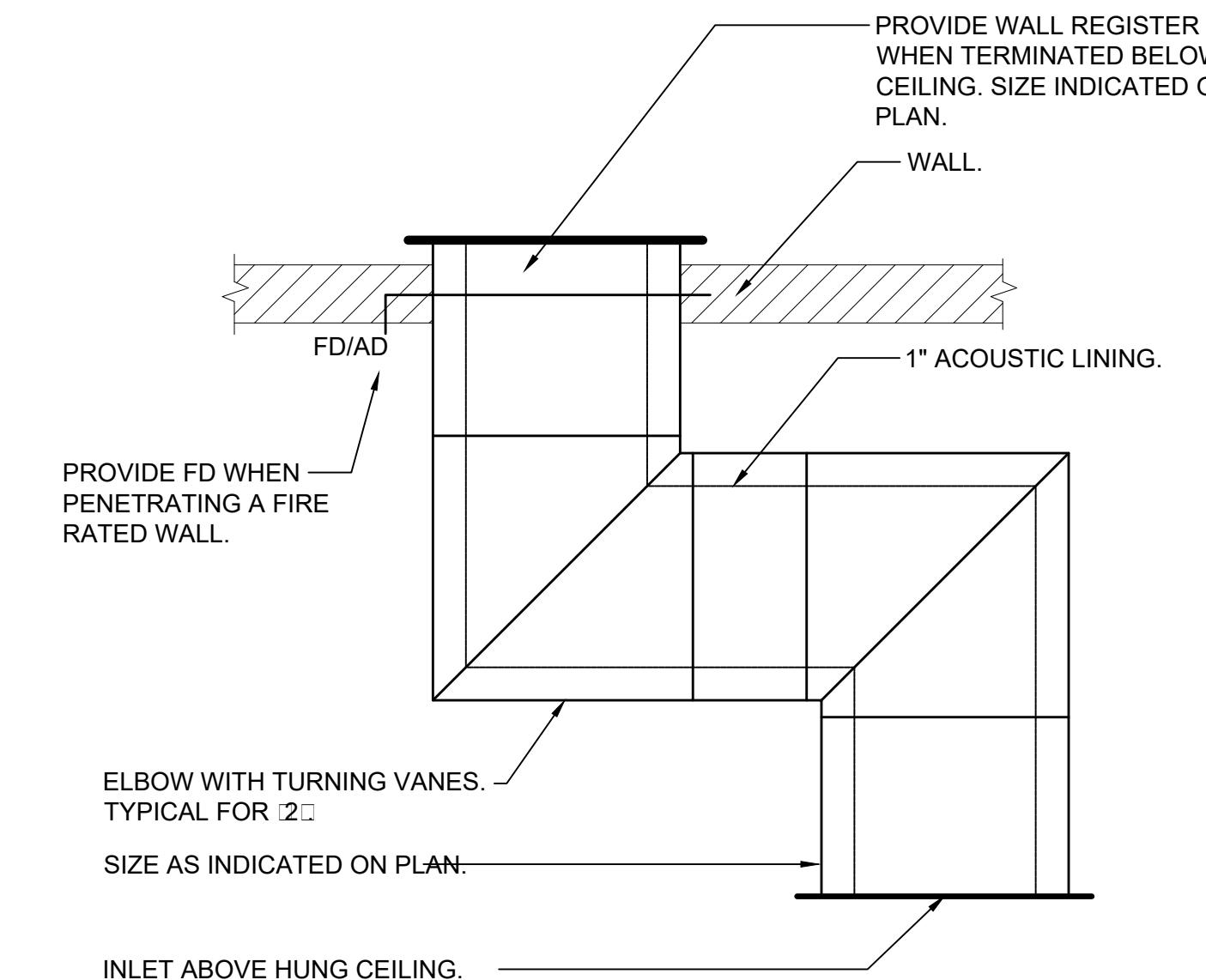
8 FLEXIBLE DUCT CONNECTION DETAIL
SCALE: NONE



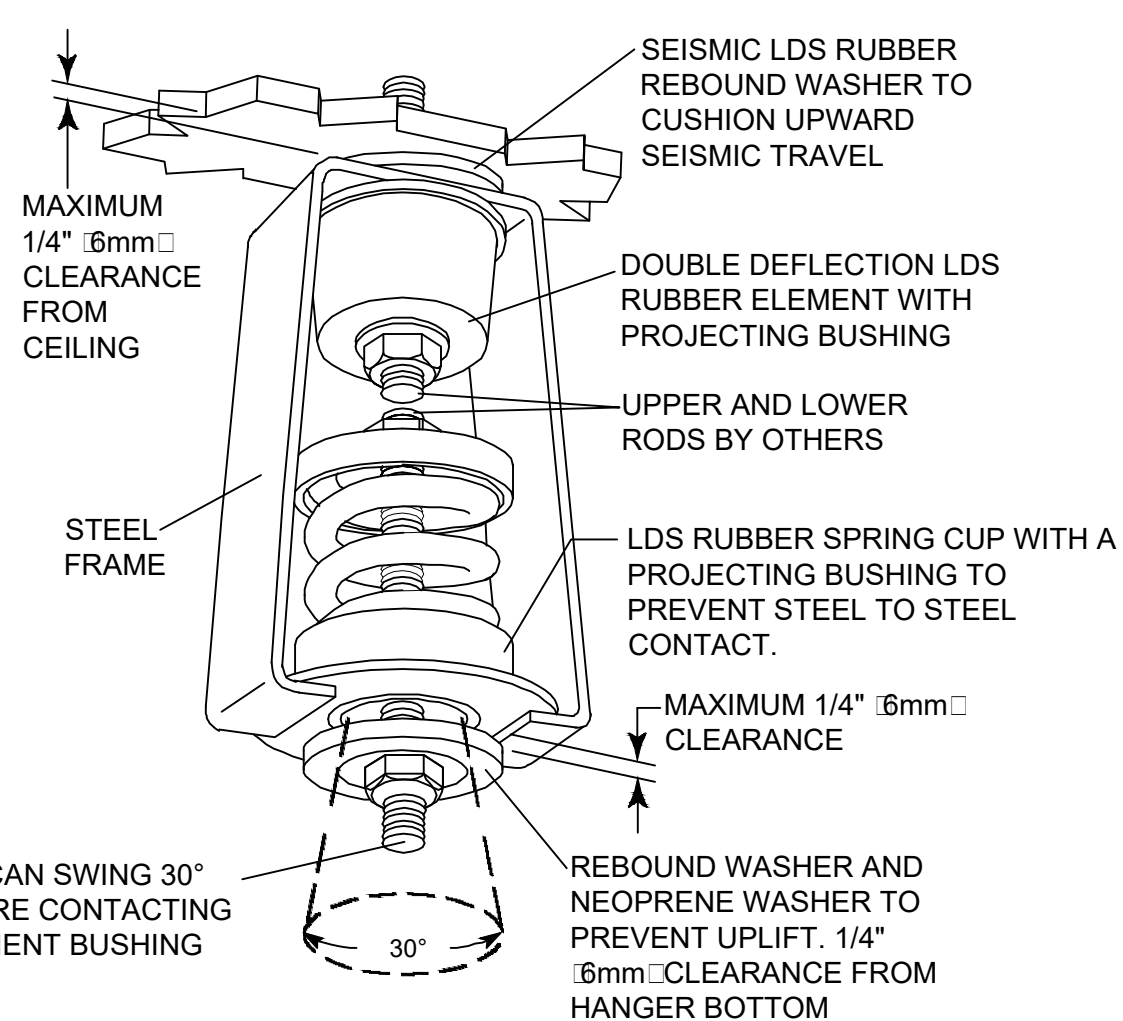
NOTES:

- 1. PREFABRICATED ROOF CURB AND BOX ASSEMBLY BASED ON CUSTOM CURB INC. MODEL CP8A-1 CUSTOM ROOF CURB BOX ASSEMBLY WITH 1.5 INCH THICK 3.5 POUND RIGID INSULATION, 18 GAGE GALVANIZED STEEL SHELL AND BASE PLATE, AND 0.050 ALUMINUM PIPE BOX.
- 2. CONTRACTOR SHALL PROVIDE ALL FLASHING, COUNTERFLASHING, AND ANY OTHER MATERIALS AND LABOR NECESSARY TO ENSURE A WATERTIGHT ROOF PENETRATION ENCLOSURE.

5 ROOF DUCT BOX DETAIL
SCALE: NONE

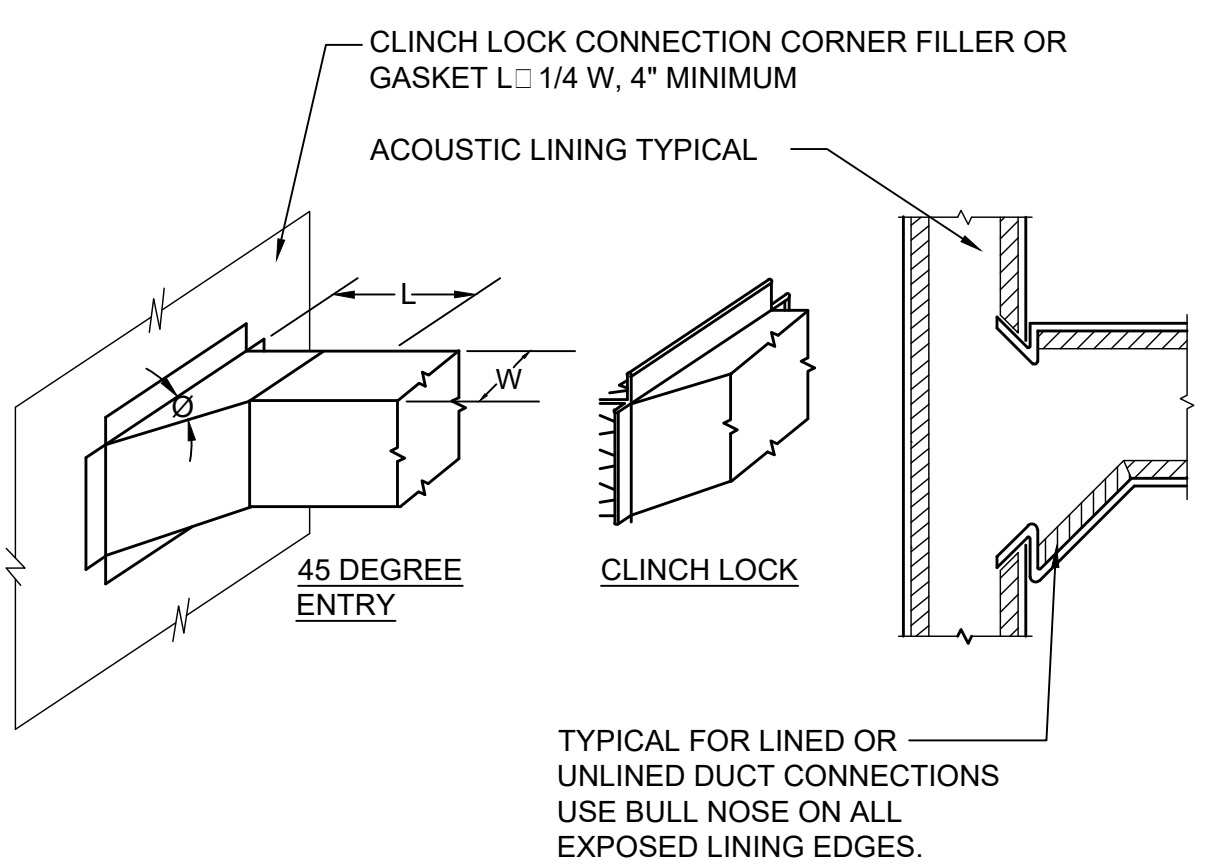


2 TRANSFER DUCT DETAIL
SCALE: NONE

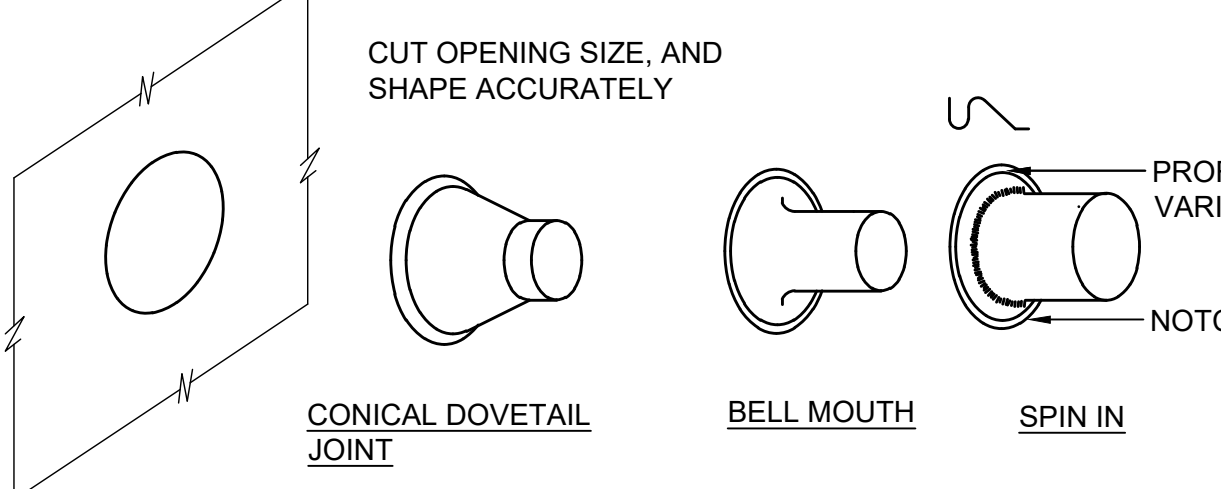


RW30N SPRING AND NEOPRENE HANGER WITH REBOUND WASHER
SPECIFICATION 10A

10 SEISMIC HANGER DETAIL
SCALE: NONE



CLOSE ALL OPENINGS AT CORNERS WITH FILLER PIECE OR GASKET.

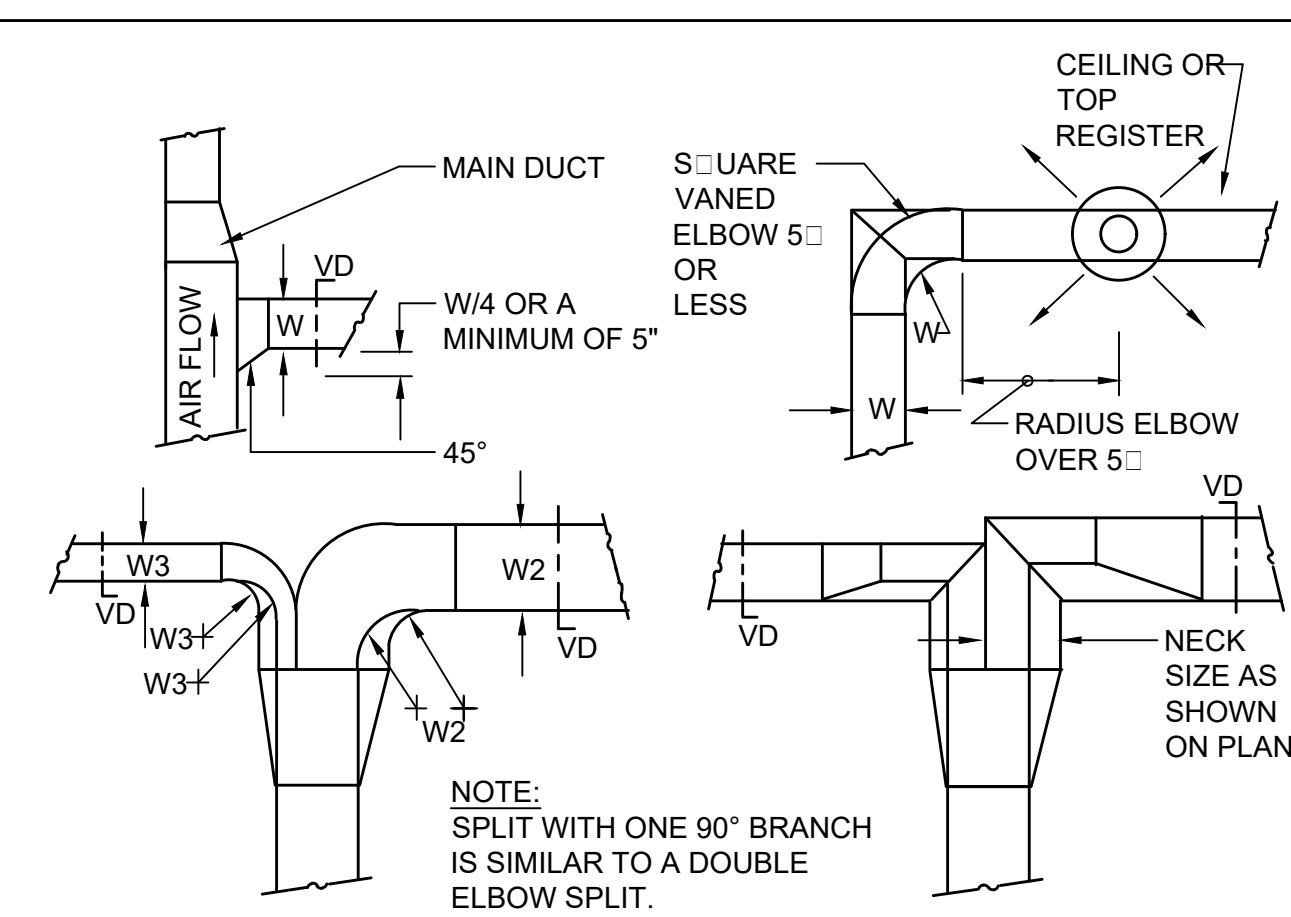


NOTES:

- 1. FOR DUCTS OVER 49\"/>

HANGER STRAP SCHEDULE		
DUCT SIZE	HANGER SIZE	MAXIMUM SPACING
UP TO 2 3/4\"/>		

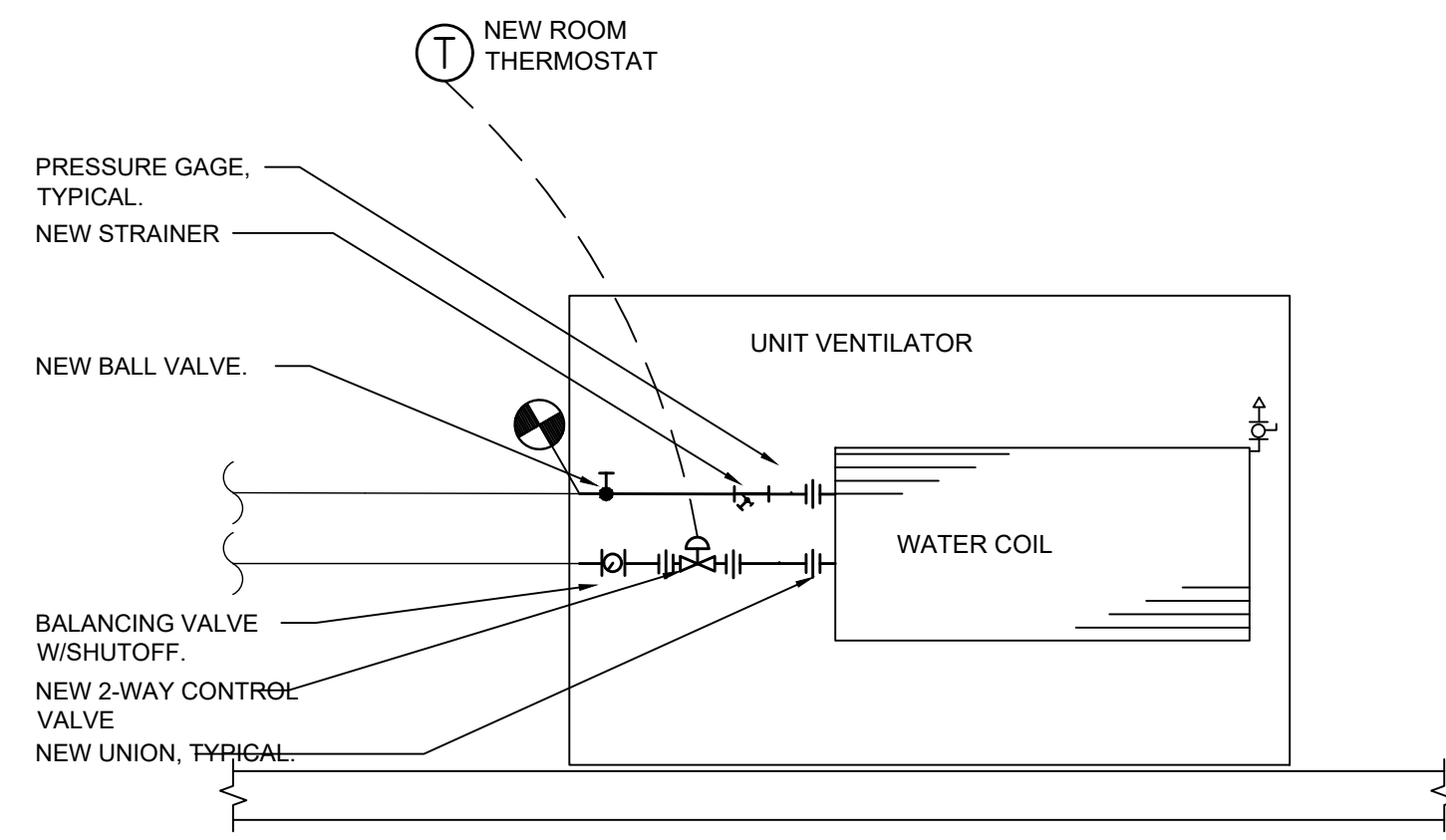
4 DUCT HANGER DETAIL
SCALE: NONE



NOTES:

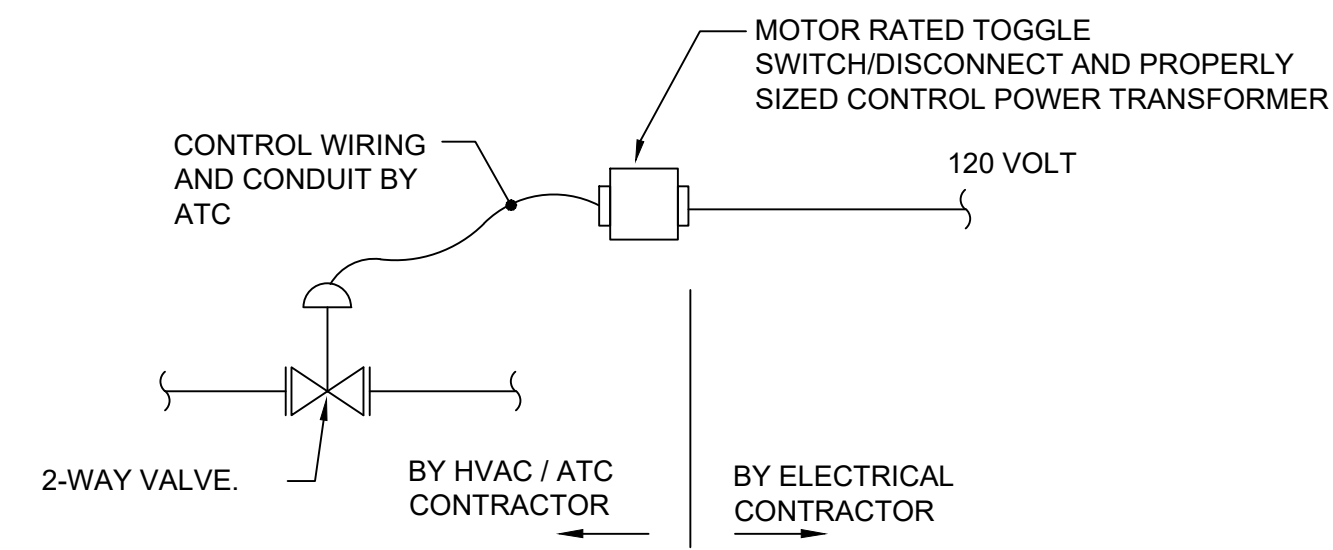
- 1. SINGLE LINE REPRESENTATIONS REFER TO DOUBLE LINE DETAILS.
- 2. USE RADIUS OR SQUARE VANED BENDS FOR BOTH ELBOWS AND SPLITS AS DETERMINED BY SPACE LIMITATIONS, AND THE DISTANCE FROM AIR OUTLETS.
- 3. ALL SQUARE ELBOWS SHALL HAVE FACTORY TURNING VANES, AND MAINTAIN A CONSTANT WIDTH.
- 4. WHERE DUCTS SPLIT, THE SOLID LINE REPRESENTATION IS PREFERRED, UNLESS PRECLUDED BY SPACE, OR OTHERWISE INDICATED.
- 5. USE ELBOW SPLIT FOR BRANCH CONNECTIONS ONLY WHERE NECK SIZE IS GIVEN.

1 DUCT BRANCH TAKE-OFF DETAIL
SCALE: NONE



NOTES:
1. SCHEMATIC IS TYPICAL FOR PIPING FED FROM BELOW OR FROM THE CEILING ABOVE.
2. BALANCE COILS AS PER SCHEDULE.

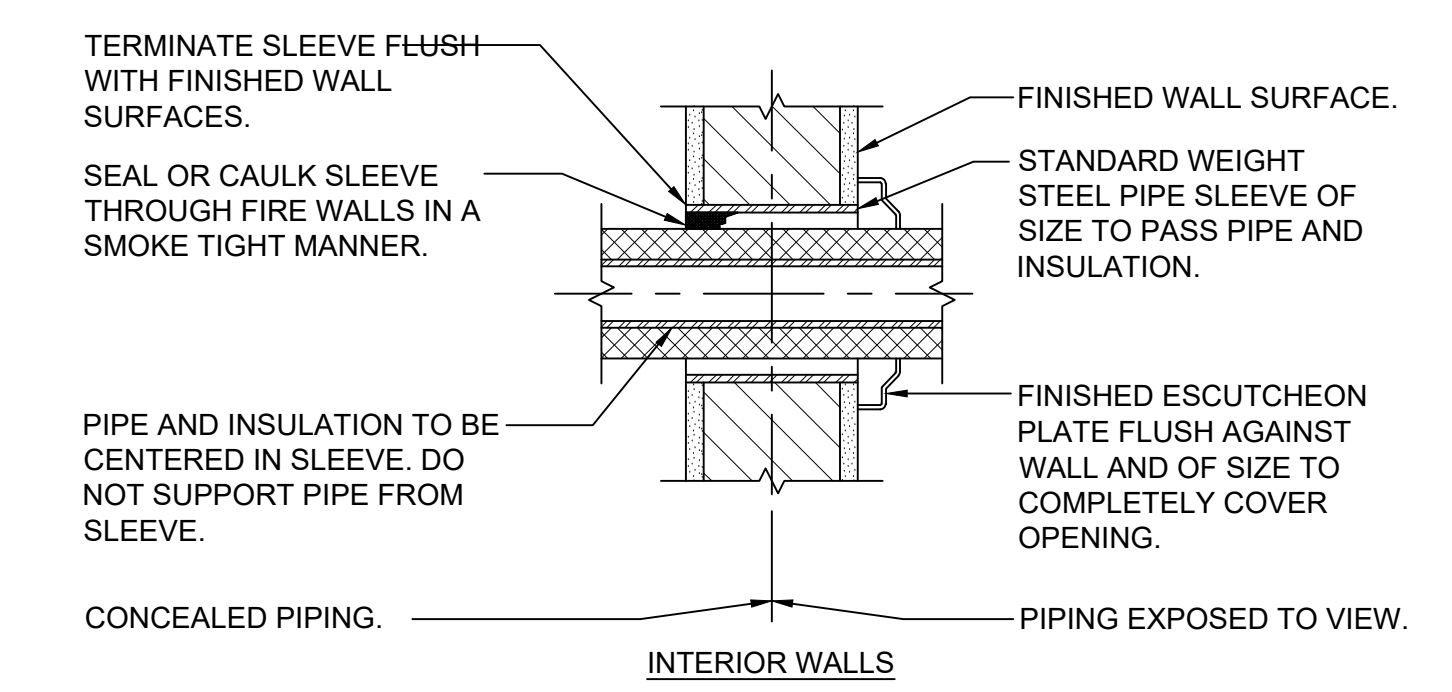
9 UNIT VENTILATOR PIPING SCHEMATIC
SCALE: NONE



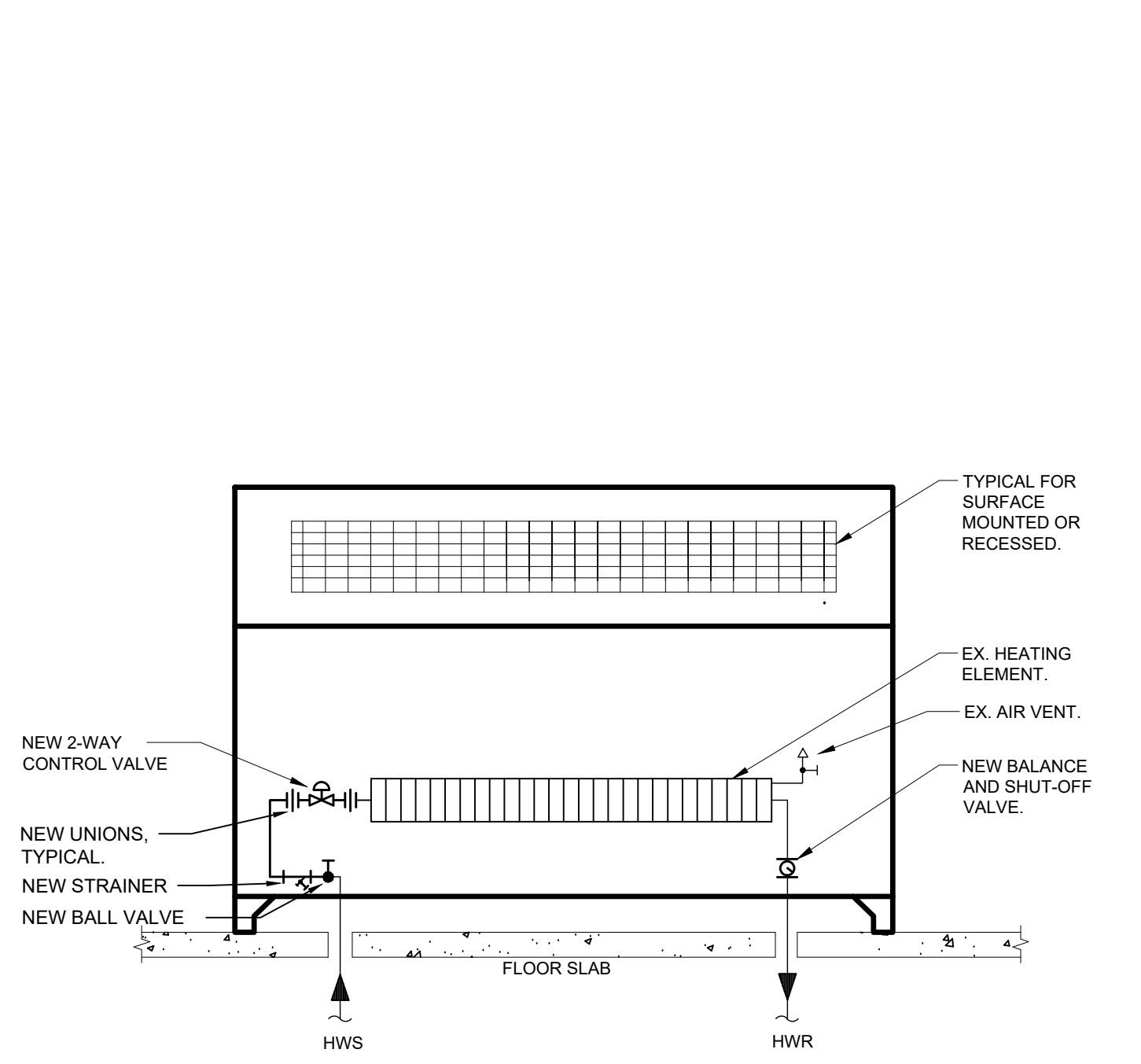
TYPICAL FOR ALL CONTROL VALVES, DAMPERS, VAV'S, ETC.

NOTE: MECHANICAL CONTRACTOR SHALL FURNISH MOTOR RATED TOGGLE SWITCH/DISCONNECT & PROPERLY SIZED TRANSFORMER TO BE INSTALLED & WIRED BY THE ELECTRICAL CONTRACTOR.

6 CONTROL VALVE WIRING SCHEMATIC
SCALE: NONE

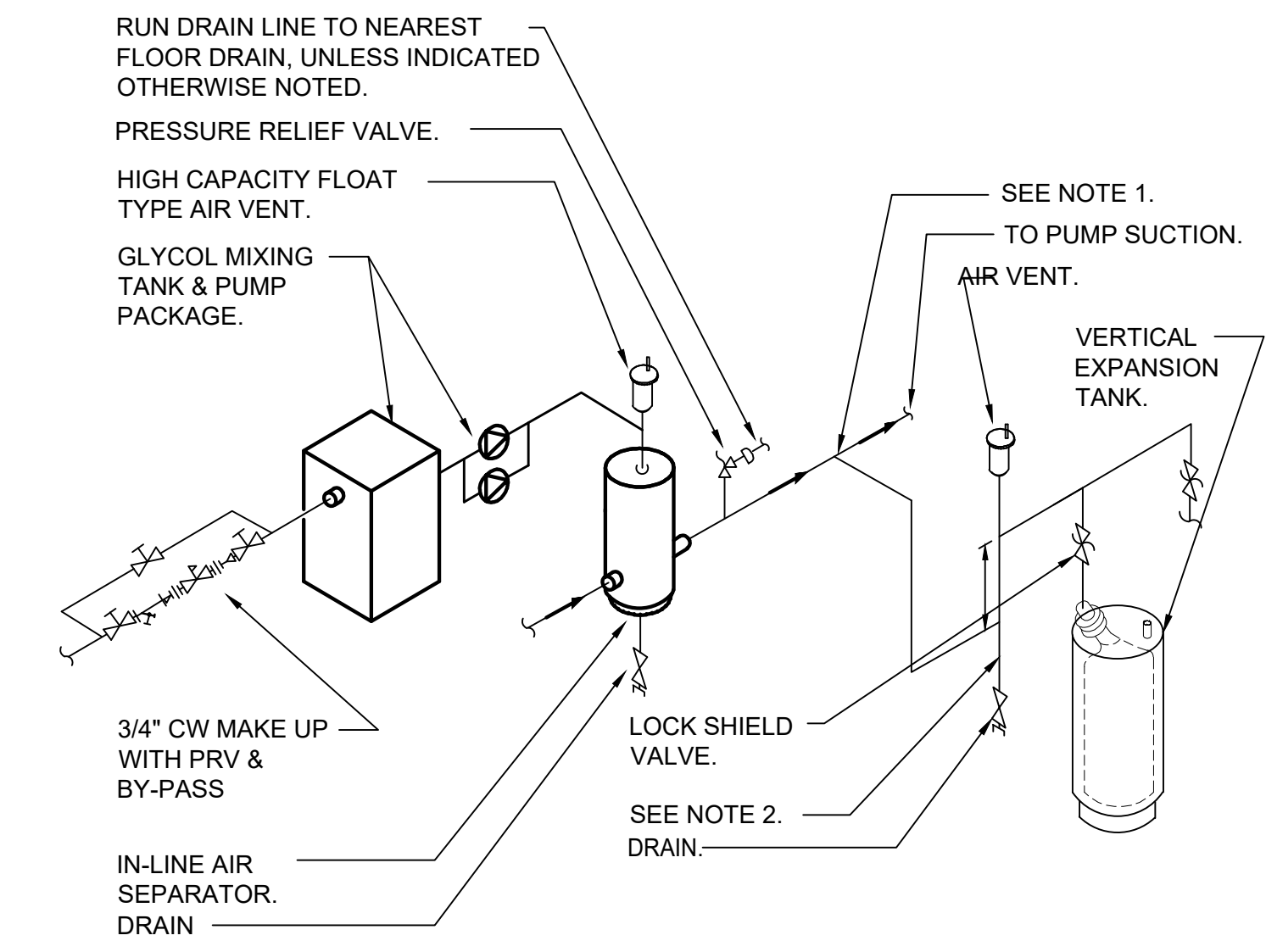


3 PIPE WALL SLEEVE DETAIL FOR INTERIOR WALLS
SCALE: NONE



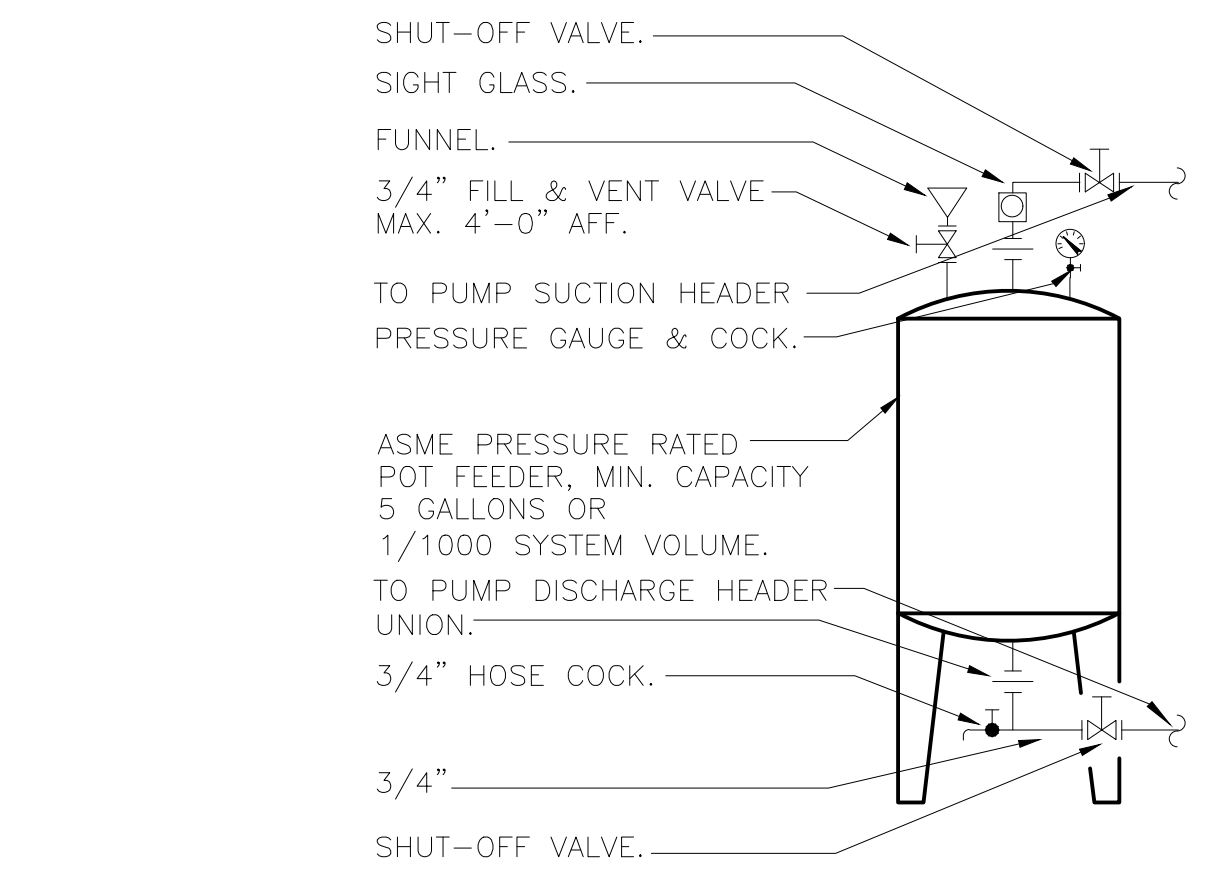
NOTES:
1. REFER TO PLANS FOR DIRECTION OF FEED AND LOCATION OF MAINS.
2. ARRANGEMENT IS SIMILAR FOR UP & DOWN FEED UNITS. COORDINATE VALVES WITH ACCESS PANELS.

8 CABINET CONVECTOR PIPING SCHEMATIC
SCALE: NONE



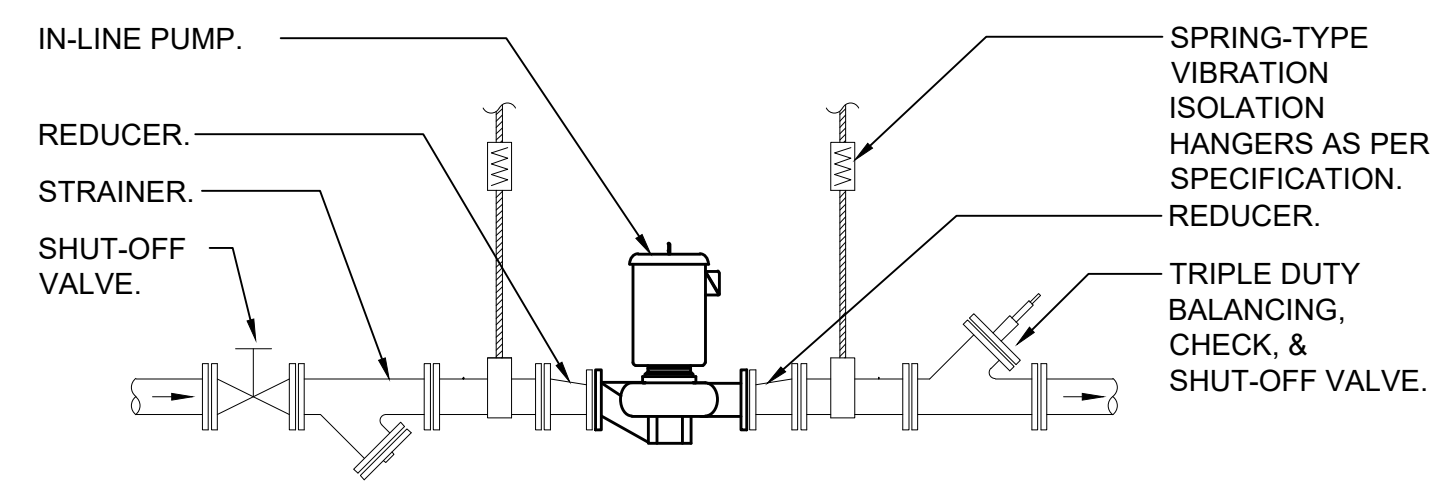
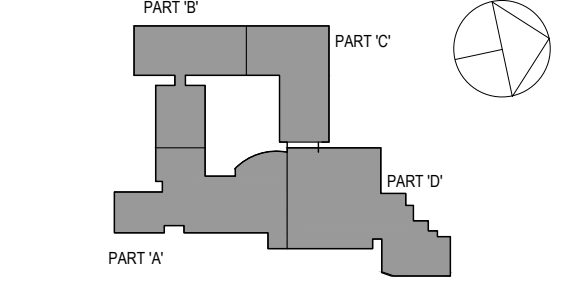
NOTES:
1. CONNECT TO SIDE OF MAIN TO PREVENT AIR OR DEBRIS FROM ENTERING PIPE TO TANK. TOP OR BOTTOM CONNECTION NOT PERMITTED.
2. PROVIDE 12" MINIMUM DROP ANTI-THERMOSYPHON LOOP TO PREVENT GRAVITY HEATING OF TANK.
3. PROVIDE STRAINER IN AIR SEPARATOR WHEN INDICATED IN THE EXPANSION TANK EQUIPMENT NOTE.
4. FOR HOT WATER AND CHILLED WATER SYSTEMS 2" AND SMALLER, USE AN IN-LINE AIR PURGER INSTEAD OF AN AIR SEPARATOR.
5. SET THE PRESSURE REDUCING VALVE SO THAT THE PRESSURE AT HIGHEST POINT IN THE SYSTEM IS 4 PSIG.
6. DASHED PIPING SHOWS BOTH HORIZONTAL AND VERTICAL DIAPHRAGM TYPE EXPANSION TANKS. PROVIDE ONLY THE TYPE OF TANK SELECTED AND THE ASSOCIATED PIPING.

5 EXPANSION TANK CONNECTION SCHEMATIC
SCALE: NONE



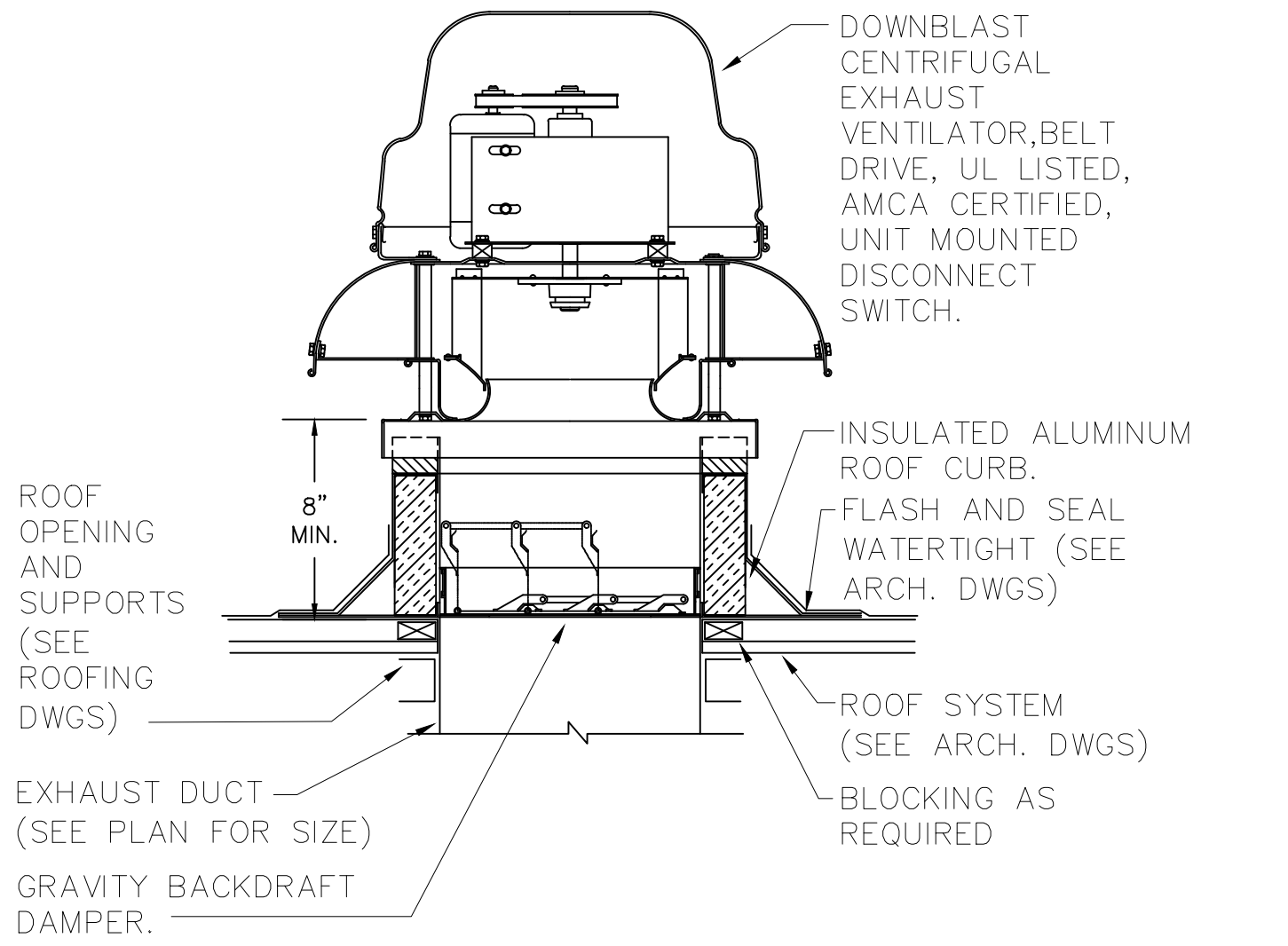
2 CHEMICAL POT FEEDER PIPING SCHEMATIC
SCALE: NONE

SPN 135-0278RR

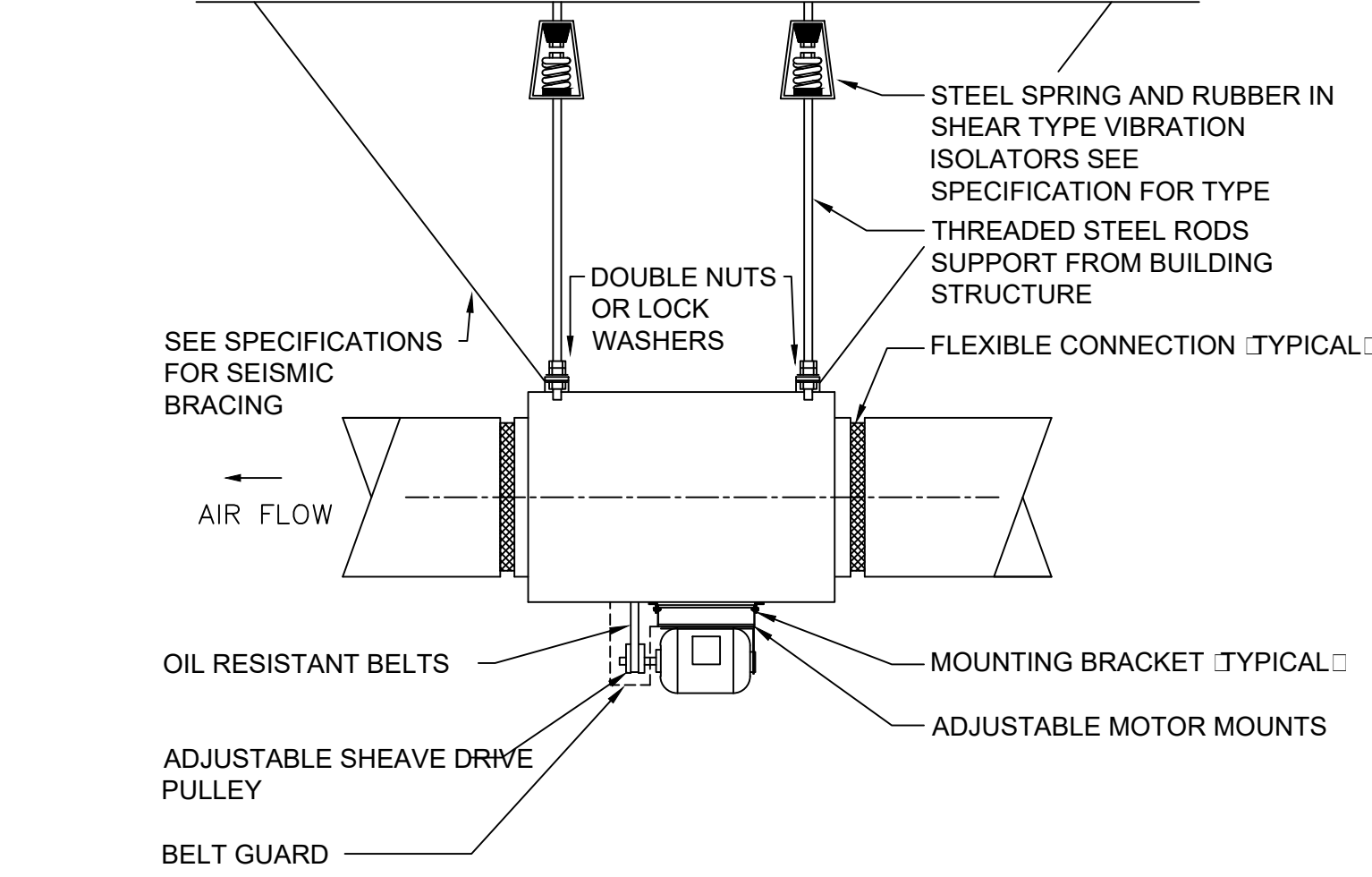


NOTES:
1. HANG IN-LINE PUMP FROM BUILDING STRUCTURE WITH VIBRATION ISOLATORS.
2. REFER TO PLANS FOR PIPE SIZES.

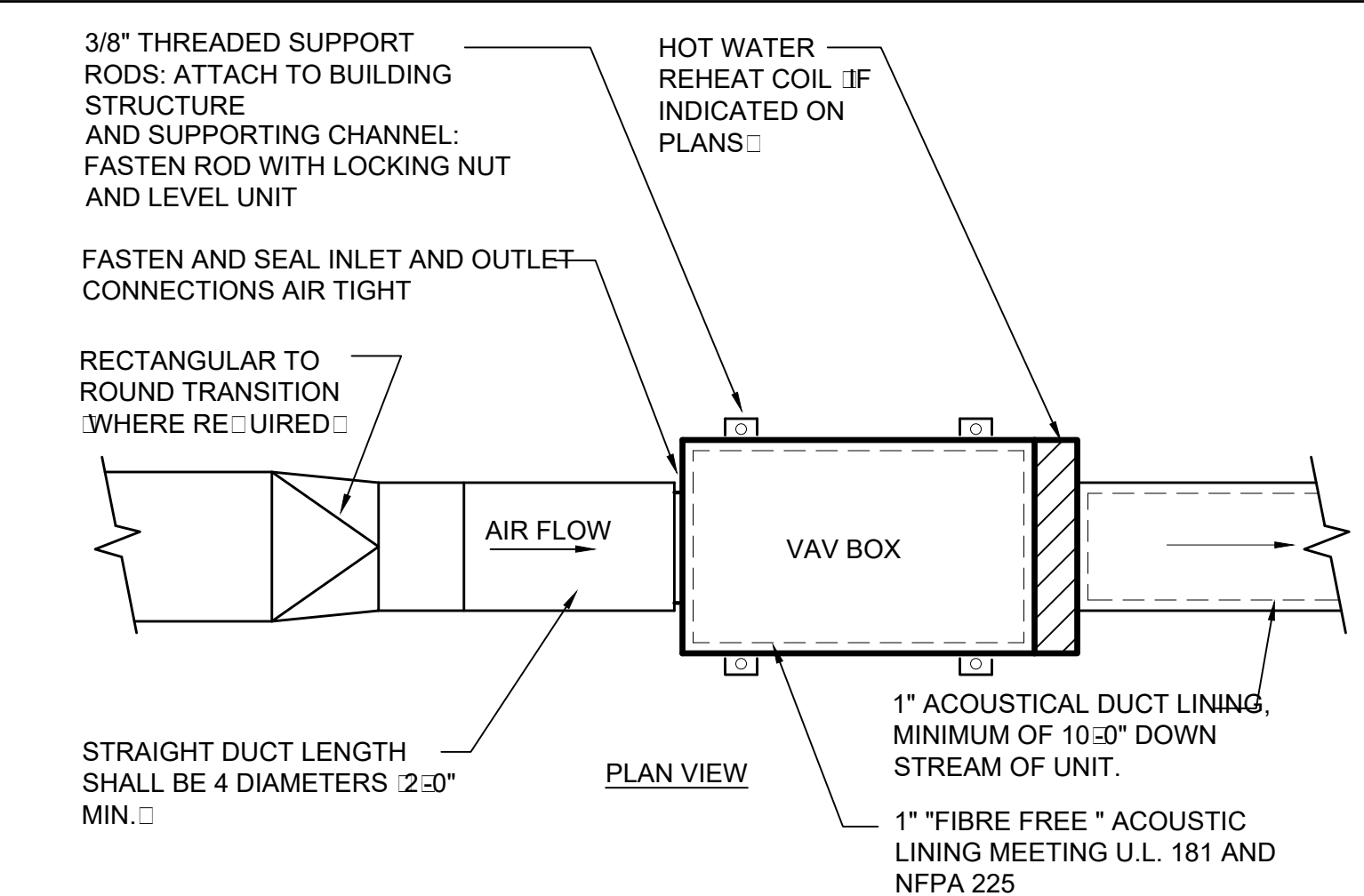
10 IN-LINE PUMP DETAIL
SCALE: NONE



7 TYPICAL EXHAUST FAN DETAIL
SCALE: NONE



4 IN-LINE FAN DETAIL
SCALE: NONE



NOTES:
1. THE OPERATION OF VARIABLE VOLUME TERMINAL UNITS ARE AFFECTED BY EXCESSIVE TURBULENCE ON THE ENTERING SIDE OF EACH TERMINAL UNIT. THEREFORE, TERMINAL UNITS MUST NOT BE INSTALLED TOO CLOSE TO MAIN DUCTS, ELBOWS AND FITTINGS.
2. WHEN MINIMUM UPSTREAM STRAIGHT DUCT CONNECTION TO TERMINALS AS INDICATED ABOVE CANNOT BE MAINTAINED, PROVIDE ORIFICE PLATE, STRAIGHTENING VANES OR OTHER DEVICE AS RECOMMENDED BY TERMINAL UNIT MANUFACTURER AND SUBMIT TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
3. TERMINAL UNITS SHALL BE PROVIDED WITH CONTROLS ON LEFT OR RIGHT SIDE AS REQUIRED BY FIELD CONDITIONS. FOR UNITS WITH ELECTRONIC CONTROLS FURNISH NEMA 1 RATED ENCLOSURE AND U.L. II TRANSFORMER AND DISCONNECT SWITCH.
4. ARRANGE ACCESS TO PERMIT EASY FIELD BALANCING AND MAINTENANCE.

PIPE SIZE SCHEDULE											
PIPE SIZE	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6
MAX. GPM	2	3.5	7	13	22	45	70	130	260	480	750

1 VARIABLE AIR VOLUME (VAV) BOX INSTALLATION DETAIL
SCALE: NONE

NOTE: ALL IDEAL, REGIONAL ARRANGEMENTS AND PLANS INDICATED OR REPRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF BARTER, GARDNER & LAMSON ARCHITECTS PC (BSGL) AND WERE CREATED FOR USE ON THIS PROJECT. NONE OF SUCH IDEAL, REGIONAL ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF BSGL.

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Professional Seal

No.	Date	Issue
3	8/6/2019	ISSUED FOR BID
2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING

MECHANICAL DETAILS

Job No. NKGD0206.00 Date 08/6/2019
Scale AS NOTED Drawn / Checked

Sheet Number

M703

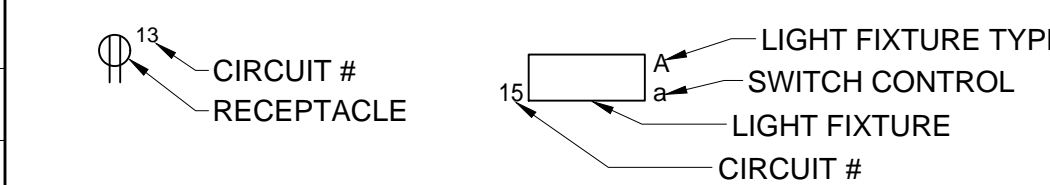
SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
	-	CONDUIT AND WIRING		-	PUSHBUTTON
	-	CONDUIT & WIRING TO BE REMOVED UON		EPO	EMERGENCY POWER OFF SWITCH
	-	BURIED CONDUIT		CB	CIRCUIT BREAKER
	-	OVERHEAD CONDUCTORS		-	ENCLOSED CIRCUIT BREAKER
	-	HOMERUN TO PANEL, ARROWS INDICATE # 1P		-	FUSED SWITCH
	-	MULTI-POLE HOMERUN		GND	GROUND AS PER LOCAL CODE
	-	ELECTRICAL EQUIPMENT AS INDICATED		-	GROUND BAR
	-	ELECTRICAL EQUIPMENT TO BE REMOVED UON		-	GROUND ROD
	-	ELECTRIC METER		XFMR	TRANSFORMER
	-	JUNCTION BOX		CT	CURRENT TRANSFORMER
	-	FUSED DISCONNECT SWITCH		-	UTILITY POLE
	-	UNFUSED DISCONNECT SWITCH		WM	WATER MAIN
	-	COMBINATION MOTOR STARTER/FUSED DISC.		-	SURFACE MOUNTED RACEWAY, DEVICES AS INDICATED
	-	MOTOR STARTER		B	BOILER BREAK GLASS STATION
	-	MOTOR		NC	NORMALLY CLOSED CONTACTS
	-	BATTERY PACK EMERGENCY LIGHT FIXTURE		NO	NORMALLY OPEN CONTACTS
	-	EXIT LIGHT, FACES-SHADED, CHEVRON-ARROW		CV	CONTROL VALVE
	-	SINGLE POLE SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)		LD	LEAK DETECTOR
	-	THREE WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)		MD	MOTORIZED DAMPER
	-	FOUR WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)		SD OR CFSD	SMOKE DAMPER
	-	DIMMER SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)		UH	UNIT HEATER
	-	MOTOR RATED TOGGLE SWITCH		VAV	VARIABLE AIR VOLUME BOX
	-	KEY OPERATED SINGLE POLE SWITCH		CLK	CLOCK
	-	WALL MOUNTED OCCUPANCY SENSOR	A	AMPERE(S)	
	-	CEILING MOUNTED OCCUPANCY SENSOR	AC	AIR CONDITIONER	
	-	CEILING MOUNTED PHOTOCCELL SENSOR	ACC	AIR CONDITIONER CONDENSER	
	-	DUPLEX RECEPTACLE (CT INDICATES COUNTERTOP RECEPTACLE)	AFF	ABOVE FINISHED FLOOR	
	-	DOUBLE DUPLEX RECEPTACLE	AF	AMPERAGE OF FUSE	
	-	SPECIAL RECEPTACLE	AGL	ABOVE GRADE LEVEL	
	-	TELEPHONE OUTLET	AHU	AIR HANDLING UNIT	
	-	DATA OUTLET (x - INDICATES # OF JACKS, 1 JACK UON)	AL	ALUMINIUM	
	-	COMBINATION TELEPHONE/DATA OUTLET	ARC	ARC FAULT INTERRUPTER	
	-	COMBINATION DATA & TV OUTLET	AS	AMPERAGE OF SWITCH	
	-	TV OUTLET (x - INDICATES # OF JACKS, 1 JACK U.O.N.)	ATS	AUTOMATIC TRANSFER SWITCH	
	-	FURNITURE CONNECTION POWER FEED	AWG	AMERICAN WIRE GAUGE	
	-	FURNITURE CONNECTION COMMUNICATION FEED	BCW	BARE COPPER WIRE	
	-	FIRE ALARM MANUAL PULL STATION	BLDG	BUILDING	
	-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (15/75 CD - STROBE) 'V' INDICATES VOICE SPEAKER	BMS	BUILDING MANAGEMENT SYSTEM	
	-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (110 CD - STROBE) 'V' INDICATES VOICE SPEAKER	C	CONDUIT	
	-	FIRE ALARM STROBE 15/75 CD	CD	CANDELA	
	-	FIRE ALARM STROBE 110 CD	CKT	CIRCUIT	
	-	FIRE ALARM COMBINATION BELL/STROBE AUDIO/VISUAL DEVICE.	CLG	CEILING	
	-	SMOKE DETECTOR. EL - ELEVATOR LOBBY; SH - SMOKE HATCH; SC - PLENUM RATED ABOVE CEILING	COL	COLUMN	
	-	DUCT MOUNTED SMOKE DETECTOR	CU	COPPER	
	-	HEAT DETECTOR	CUH	CABINET UNIT HEATER	
	-	CARBON MONOXIDE ALARM SB - SOUNDER BASE	DEM.	DEMOLISH AND REMOVE	
	-	FIRE ALARM BELL	DISC	DISCONNECT	
	-	CEILING MOUNTED FIRE ALARM SPEAKER	DIM	DIMMER	
	-	FIRE ALARM TAMPER SWITCH	DWG	DRAWING	
	-	FIRE ALARM WATER FLOW SWITCH	ELEV	ELEVATOR	
	-	FIRE ALARM DOOR RELEASE	EMT	ELECTRICAL METALLIC TUBING	
	-	FIRE ALARM ANNUNCIATOR PANEL	EM	EMERGENCY	
	CM	FIRE ALARM CONTROL MODULE	EX.	EXISTING TO REMAIN	
	MM	FIRE ALARM MONITORING MODULE	F	FLOOR	
	FACP	FIRE ALARM CONTROL PANEL	FBO	FURNISHED BY OTHERS	
	BPS	BOOSTER POWER SUPPLY	FC	FAN COIL UNIT	
	R	FIRE ALARM RELAY	GFI	GROUND FAULT INTERRUPTER	
	EOL	END OF LINE RESISTOR	HP	HORSEPOWER	
	-	CEILING MOUNTED SPEAKER STROBE	HVAC	HEATING VENTILATION AIR CONDITIONING	
	-	TIME CLOCK	IG	ISOLATED GROUND	
	-	CARD READER	IMC	INTERMEDIATE METAL CONDUIT	
	-	PANIC ALARM	KVA	KILO-VOLT-AMPERE	
	-	CEILING MOUNTED PUBLIC ADDRESS SPEAKER	KW	KILO-WATT	
			MAX	MAXIMUM	
			MCB	MAIN CIRCUIT BREAKER	
			MCC	MOTOR CONTROL CENTER	
			MIN	MINIMUM	
			MLO	MAIN LUG ONLY	
			MTS	MANUAL TRANSFER SWITCH	
			N	NEW DEVICE	
			NIC	NOT IN CONTRACT	
			NL	NIGHT LIGHT	
			NTS	NOT TO SCALE	

NOTES:
1.) ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE APPLICABLE FOR THIS PROJECT.
2.) SEE LIGHTING FIXTURE SCHEDULE FOR LIGHT FIXTURE SYMBOLS.

TYPICAL BRANCH CIRCUIT WIRING LEGEND

- 2-#12 & 1-#12 GND (1-1P-20A OR 1-1P-15A CB)
- 3-#12 & 1-#12 GND (3P-20A OR 3P-15A CB)
- 2-#12 & 1-#12 GND (2P-20A OR 2P-15A CB)



NOTES:
1.) EACH 120V AND 277V CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. SHARED NEUTRAL HOMERUNS ARE NOT PERMITTED.
2.) CONDUCTORS SHALL BE INCREASED FOR VOLTAGE DROP AND DERATING AS PER APPLICABLE ELECTRICAL CODE. FOR CIRCUITS THAT ARE BETWEEN 100' AND 150' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #10 AWG. FOR CIRCUITS THAT ARE BETWEEN 150' AND 225' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #8 AWG. FOR LENGTHS GREATER THAN 225' IN LENGTH, VERIFY CONDUCTOR SIZES WITH ENGINEER.

DEMOLITION NOTES

- CONTRACTOR SHALL VERIFY EXTENT OF DEMOLITION WORK IN THE FIELD PRIOR TO BID AND SHALL INCLUDE ALL LABOR AND MATERIALS IN BASE BID INCLUDING ALL TEMPORARY CONNECTIONS, CONDUIT AND WIRE IN ORDER TO ACCOMMODATE CONSTRUCTION AND PROVIDE CONTINUOUS SERVICE TO DEVICES AND SYSTEMS TO REMAIN, TEMPORARY AND PERMANENTLY.
- CIRCUIT BREAKER, CONDUIT AND CONDUCTOR SIZES INDICATED SHALL BE FIELD VERIFIED PRIOR TO BID.
- ALL EXISTING ELECTRICAL CIRCUITRY AND EQUIPMENT NO LONGER IN USE, SUCH AS DISCONNECT SWITCHES, MOTOR CONTROLLERS, MOTOR STARTER PANELS, ETC. SHALL BE REMOVED UON.
- ALL DISCONNECTED & REMOVED EXISTING ELECTRICAL ITEMS THAT ARE NOT BEING REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED.
- THE CONTRACTOR SHALL INCLUDE IN THE BASE BID FOR ALL MATERIAL & LABOR REQUIRED FOR THE EXTENSIONS, REROUTING & RELOCATION OF EXISTING SYSTEM COMPONENTS, EQUIPMENT, WIRING, CONDUITS & CABLING SO AS TO MAINTAIN OPERATION OF ALL SYSTEMS THROUGHOUT THE BUILDING DURING DEMOLITION & CONSTRUCTION PHASES.
- ALL FIBER OPTIC CABLING IN BUILDING SHALL REMAIN.
- ALL EXISTING DATA AND COAXIAL OUTLETS AND LOW VOLTAGE WIRING SHALL BE REMOVED, PROVIDE FACE PLATES WHERE REQUIRED.
- REFER TO IT DRAWINGS FOR ADDITIONAL DEMOLITION NOTES AND SCOPE OF WORK.

GENERAL NOTES

- THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION.
- ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY.
- ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".
- ELECTRONIC FILES OF THE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS ARE AVAILABLE TO THE CONTRACTOR. THE ENGINEER MAY GRANT THE CONTRACTOR A LIMITED LICENSE TO MAKE A DERIVATIVE WORK OF THE DATABASE FOR THE PURPOSE OF SHOP DRAWINGS, SUBMITTALS AND AS-BUILT DRAWINGS. UPON REQUEST, THE ENGINEER SHALL PROVIDE A RELEASE FORM THAT MUST BE SIGNED AND RETURNED BY THE CONTRACTOR PRIOR TO RELEASE OF THE ELECTRONIC FILES.
- CIRCUIT NUMBERS ARE FOR INFORMATION PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD.
- CORE DRILLING OR TRENCHING THROUGH AN EXISTING FLOOR SLAB, WHEN REQUIRED, SHALL BE COORDINATED WITH THE OWNER. FLOOR SLABS SHALL BE RADAR SCANNED PRIOR TO CORE DRILLING OR TRENCHING. USE EXTREME CAUTION DURING ANY CUTTING OPERATION TO AVOID DAMAGE TO EXISTING EQUIPMENT/SYSTEMS. ANY ITEMS DAMAGED AS A RESULT OF CORE DRILLING SHALL BE REPAIRED AT NO COST TO THE CLIENT. ALL CORES SHALL BE FIRE SEALED.
- FOR EACH WALL MOUNTED COMMUNICATIONS OUTLET, SECURITY CAMERA, AV OUTLET, PUBLIC ADDRESSABLE DEVICE (PA) INCLUDING VOLUME CONTROLLERS & HORNS, CALL SWITCHES, CARD READERS, ETC. PROVIDE A 1900 JUNCTION BOX WITH AN EXTENDER COLLAR AND CONDUIT SIZED AS INDICATED ON IT DRAWINGS WITH BUSHING AND DRAGLINE 6 INCHES ABOVE ACCESSIBLE CEILING FOR INSTALLATION OF CABLE BY OTHERS. REFER TO IT DRAWINGS FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.
- WHERE GFI RECEPTACLES ARE CIRCUITED WITH GENERAL CONVENIENCE RECEPTACLES, THE GFI RECEPTACLE SHALL BE THE LAST DEVICE ON THE CIRCUIT.
- INSTALL CONDUIT EXPANSION FITTINGS AT ALL LOCATIONS WHERE CONDUITS CROSS BUILDING OR STRUCTURE EXPANSION JOINTS.
- CEILING MOUNTED RECEPTACLES SHALL BE MOUNTED FLUSH TO CEILING.
- UNLESS OTHERWISE NOTED, DISCONNECT SWITCHES, STARTERS, HOAS AND MOTOR RATED TOGGLE SWITCHES FOR MECHANICAL PUMPS, CABINET AND UNIT HEATERS, RETURN FANS, ROOF FANS, VAV BOXES, COMPRESSORS, FAN COIL UNITS, AIR HANDLERS AND CONDENSERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE ALL WORK WITH THE MECHANICAL CONTRACTOR. SWITCHES NOT SHOWN ON PLANS UNLESS OTHERWISE INDICATED.
- DISCONNECT SWITCHES FOR MOTORIZED DAMPERS, CFSD/SD AND VAV BOXES SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. SWITCHES NOT SHOWN ON PLANS UNLESS OTHERWISE INDICATED.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, PAINTING, AND FINAL RESTORATION REQUIRED TO FACILITATE THE DEMOLITION AND INSTALLATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO PANELBOARDS, CONDUITS, WIRING, DEVICES, FIXTURES, ETC. INCLUDING ABOVE CEILINGS. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH WALLS, AS REQUIRED TO EXECUTE THE ELECTRICAL WORK.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING CEILINGS IN AREAS OF WORK WHERE THE CEILINGS ARE DUE TO REMAIN. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING TO REMAIN CEILINGS CAUSE BY THE ELECTRICAL SCOPE OF WORK.
- ALL COVER PLATES FOR REMOVED RECEPTACLES, DATA OUTLETS, ETC SHALL BE WHITE AND BRUSHED ALUMINIUM TO MATCH EXISTING.
- WHEREVER THERE MAY BE DISCREPANCY BETWEEN IT DRAWINGS AND ELECTRICAL DRAWINGS INVOLVING LOW VOLTAGE SCOPE OF WORK, THE SCOPE OF WORK INDICATED ON THE IT DRAWINGS SHALL BE FOLLOWED.
- ALL RECEPTACLES BEING REPLACED SHALL BE TAMPER PROOF.
- PRIOR TO DEMOLITION, THE E.C. SHALL SUB CONTRACT THE BUILDING FIRE ALARM VENDOR PERFORM A COMPLETE TEST OF THE SYSTEM AND PROVIDE A REPORT OF THE RESULTS TO THE ENGINEER, ARCHITECT AND OWNER.

DEFINITION OF TERMS

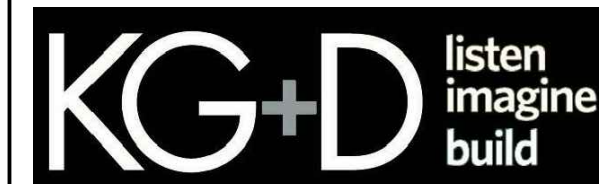
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" IS USED, IT MUST BE UNDERSTOOD THAT "NEW WESTOVER SCHOOL" IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ARCHITECT" IS USED, IT MUST BE UNDERSTOOD THAT "KG&D ARCHITECTS, P.C." IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT MUST BE UNDERSTOOD THAT "OLA CONSULTING ENGINEERS" IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "ELECTRICAL UTILITY" OR "POWER COMPANY" ARE USED, IT MUST BE UNDERSTOOD THAT "EVERSOURCE" IS INTENDED.
- "WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS, TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, COORDINATION AND SUPERVISION REQUIRED AND / OR REASONABLY NECESSARY TO PRODUCE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS.
- "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE.
- "INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING, APPLYING, SETTING, ERECTING, ANCHORING, SECURING, ETC.. CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE. INSTALLATION OF SPECIFIED ITEMS MUST BE COMPLETE IN ALL RESPECTS.
- "PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS DEFINED ABOVE.
- THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS:
A) "NO EXCEPTIONS TAKEN" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY COMMENCE.
B) "MAKE CORRECTIONS NOTED" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS, SUBJECT TO AND IN COMPLIANCE WITH THE ANNOTATIONS AND/OR CORRECTIONS INDICATED ON THE SHOP DRAWING. FABRICATION AND/OR PURCHASE MAY COMMENCE.
C) "AMEND AND RESUBMIT" MEANS THAT THE COMMENTS AND/OR CORRECTION ARE SO EXTENSIVE AND IMPORTANT THAT THE REVIEWER WANTS TO SEE HOW THE COMMENTS AND/OR CORRECTIONS ARE RESOLVED PRIOR TO RELEASE FOR FABRICATION AND/OR PURCHASE. FABRICATIONS AND/OR PURCHASE MAY NOT COMMENCE.
D) "REJECTED" MEANS THAT THE SHOP DRAWING DOES NOT COMPLY OR CONFORM TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY NOT COMMENCE.

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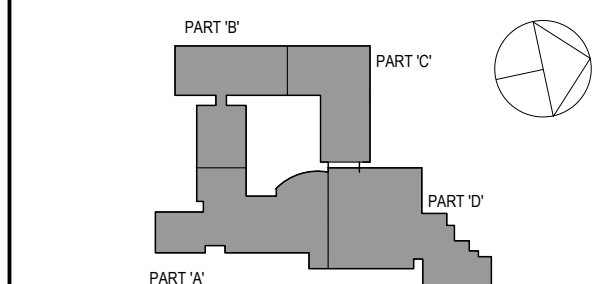
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CONSTRUCTION DOCUMENTS

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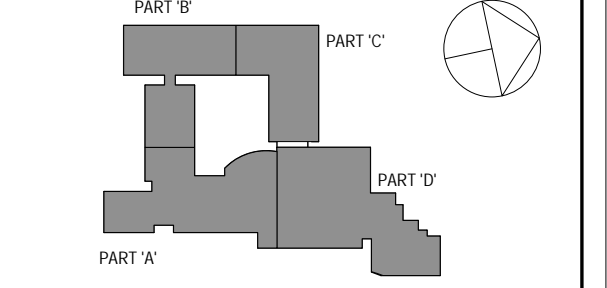
ELECTRICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES

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E001



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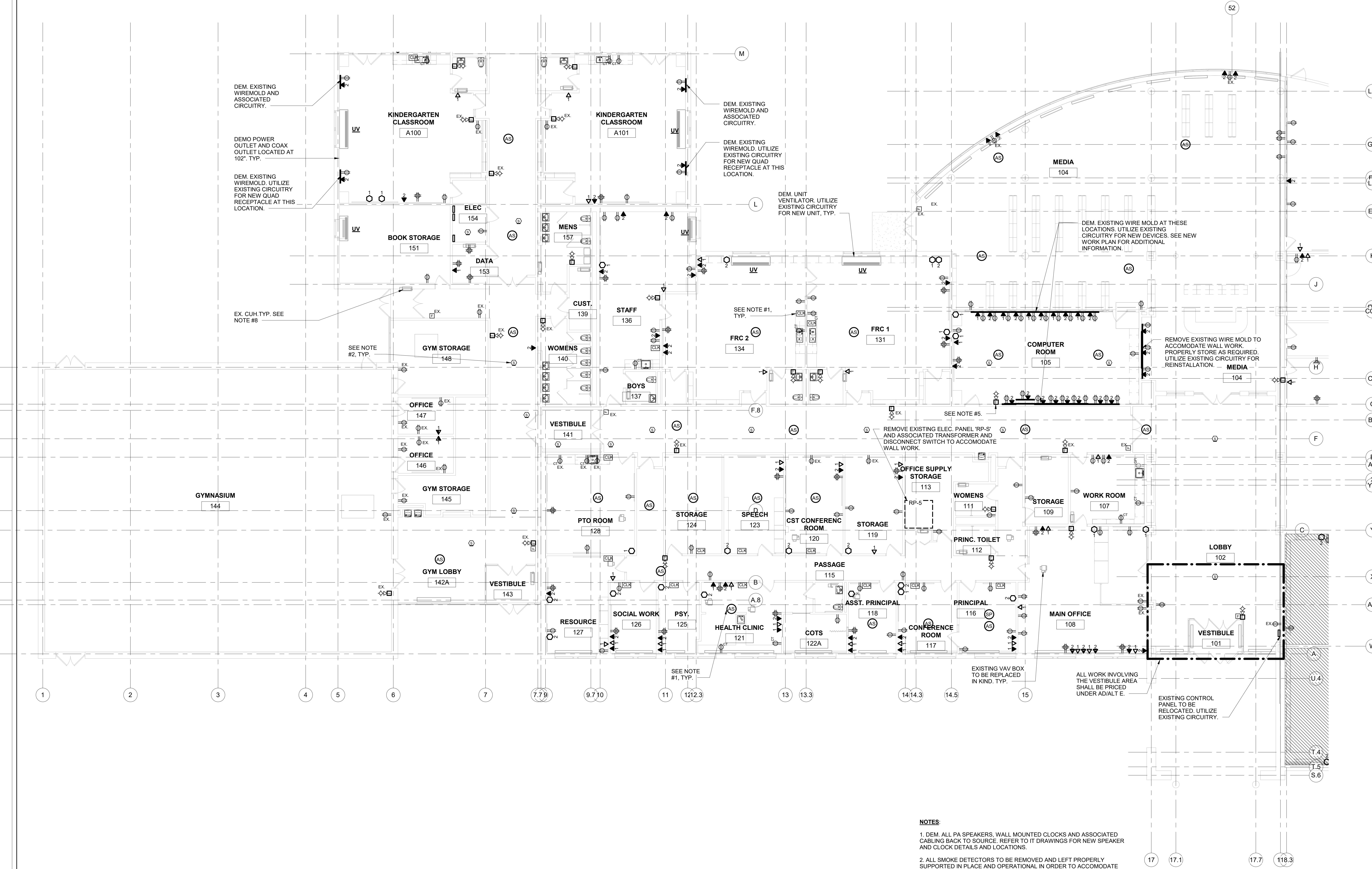
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ELECTRICAL 1ST FLOOR PART 'A'
DEMO PLAN

Job No.	NKGD0206.00	Date	08/08/2019
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Sheet Number

E101



- NOTES:**
1. DEM. ALL PA SPEAKERS, WALL MOUNTED CLOCKS AND ASSOCIATED CABLING BACK TO SOURCE. REFER TO IT DRAWINGS FOR NEW SPEAKER AND CLOCK DETAILS AND LOCATIONS.
 2. ALL SMOKE DETECTORS TO BE REMOVED AND LEFT PROPERLY SUPPORTED IN PLACE AND OPERATIONAL IN ORDER TO ACCOMMODATE DEMOLITION OF EXISTING CEILING. PROTECT AS REQUIRED. REINSTALL AT TIME OF NEW CONSTRUCTION.
 3. SEE DRAWING E-201 FOR LIGHTING SCOPE OF WORK.
 4. ALL WALL MOUNTED RECEPTACLES, DATA AND COAXIAL OUTLETS SHALL BE DEMOLISHED U.O.N. AS EXISTING TO REMAIN (EX) LEAVE IN PLACE AND UTILIZE EXISTING RECEPTACLE BACK BOXES FOR NEW CONSTRUCTION. EXISTING RECEPTACLE CIRCUITRY SHALL BE UTILIZED FOR NEW CONSTRUCTION. REMOVE ALL LOW VOLTAGE CABLING ASSOCIATED WITH DATA AND COAXIAL OUTLETS. REFER TO IT DRAWINGS FOR ADDITIONAL DATA AND LOW VOLTAGE REQUIREMENTS.
 5. ALL WALL MOUNTED FIRE ALARM DEVICES SHALL BE REMOVED, PROPERLY STORED AND REINSTALLED (RR) U.O.N. AS EXISTING TO REMAIN (EX).
 6. ALL WALL SCONES TO BE REMOVED AND REINSTALLED, WHETHER SHOWN ON PLANS OR NOT. VERIFY LOCATIONS IN FIELD. UTILIZE EXISTING CIRCUITRY.
 7. REFER TO IT DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
 8. REFER TO DRAWING E302 FOR WORK RELATED TO EXISTING CUH.

ELECTRICAL 1ST FLOOR PART 'A' DEMO PLAN
SCALE: 1/8" = 1'-0"
NORTH

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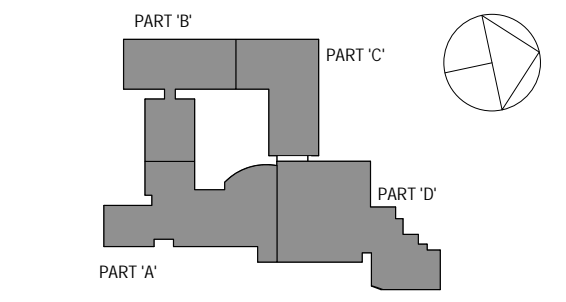
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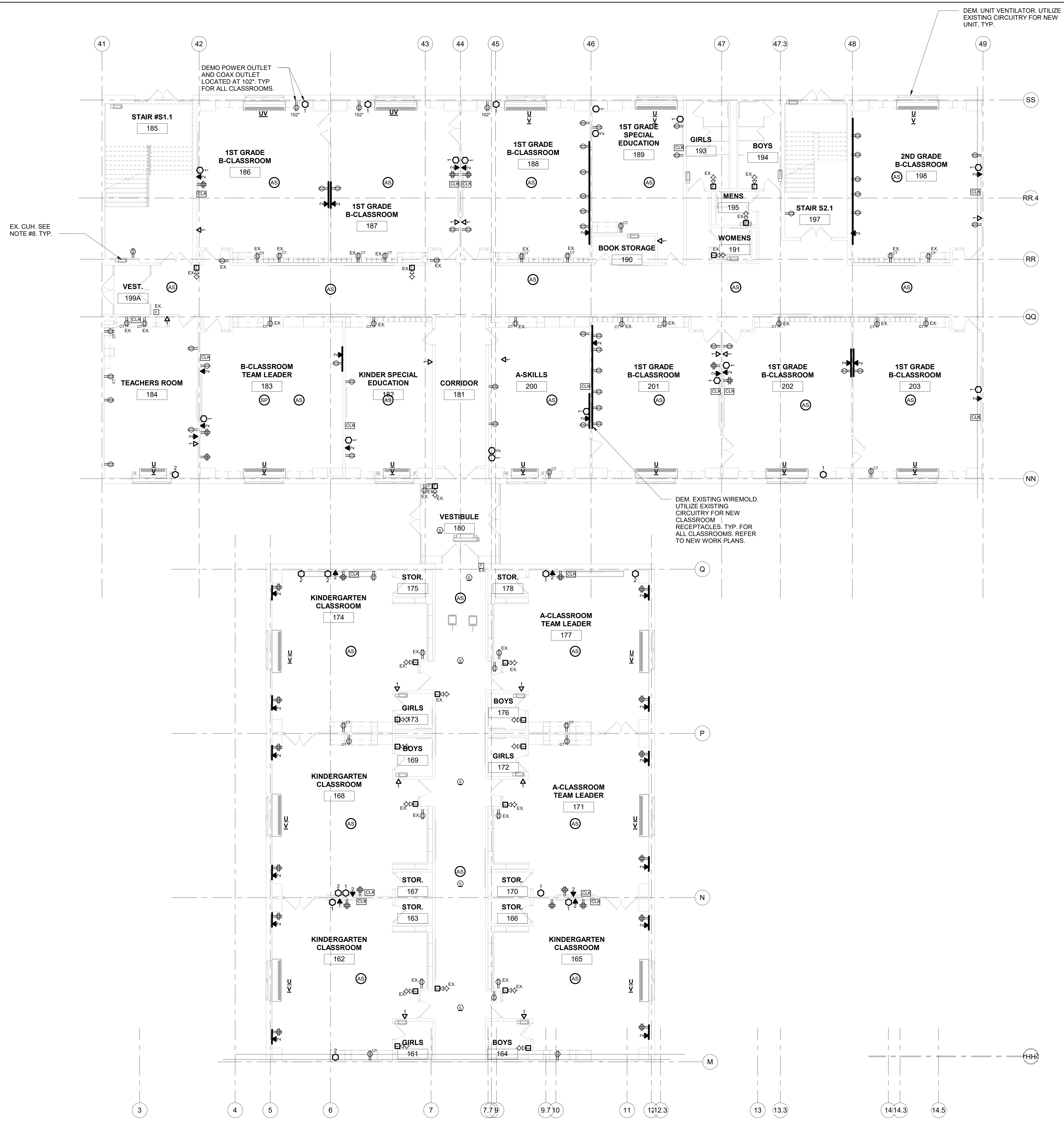
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ELECTRICAL 1ST FLOOR PART 'B' DEMO PLAN

Job No.	NKGD0206.00	Date	08/06/2019
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Sheet Number
E102



EX. CUH. SEE NOTE #8. TYP.

DEMO POWER OUTLET AND COAX OUTLET LOCATED AT 102" TYP FOR ALL CLASSROOMS.

DEM. UNIT VENTILATOR. UTILIZE EXISTING CIRCUITRY FOR NEW UNIT, TYP.

DEM. EXISTING WIREMOLD. UTILIZE EXISTING CIRCUITRY FOR NEW CLASSROOM RECEPTACLES. TYP. FOR ALL CLASSROOMS. REFER TO NEW WORK PLANS.

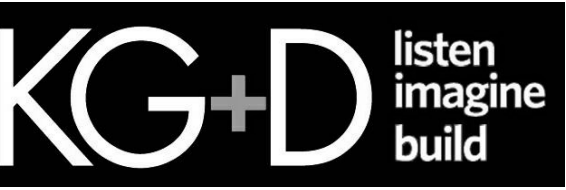
- NOTES:**
- DEM. ALL PA SPEAKERS, WALL MOUNTED CLOCKS AND ASSOCIATED CABLING BACK TO SOURCE. REFER TO IT DRAWINGS FOR NEW SPEAKER AND CLOCK DETAILS AND LOCATIONS.
 - ALL SMOKE DETECTORS TO BE REMOVED AND LEFT PROPERLY SUPPORTED IN PLACE AND OPERATIONAL IN ORDER TO ACCOMMODATE DEMOLITION OF EXISTING CEILING. PROTECT AS REQUIRED. REINSTALL AT TIME OF NEW CONSTRUCTION.
 - SEE DRAWING E-202 FOR LIGHTING SCOPE OF WORK.
 - ALL WALL MOUNTED RECEPTACLES, DATA AND COAXIAL OUTLETS SHALL BE DEMOLISHED U.O.N. AS EXISTING TO REMAIN (EX.) LEAVE IN PLACE AND UTILIZE EXISTING RECEPTACLE BACK BOXES FOR NEW CONSTRUCTION. EXISTING RECEPTACLE CIRCUITRY SHALL BE UTILIZED FOR NEW CONSTRUCTION. REMOVE ALL LOW VOLTAGE CABLING ASSOCIATED WITH DATA AND COAXIAL OUTLETS. REFER TO IT DRAWINGS FOR ADDITIONAL DATA AND LOW VOLTAGE REQUIREMENTS.
 - ALL WALL MOUNTED FIRE ALARM DEVICES SHALL BE REMOVED, PROPERLY STORED AND REINSTALLED (RR) U.O.N. AS EXISTING TO REMAIN (EX).
 - ALL WALL SCONCES TO BE REMOVED AND REINSTALLED, WHETHER SHOWN ON PLANS OR NOT. VERIFY LOCATIONS IN FIELD. UTILIZE EXISTING CIRCUITRY.
 - REFER TO IT DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
 - REFER TO DRAWING E303 FOR WORK RELATED TO EXISTING CUH.

1 ELECTRICAL 1ST FLOOR PART 'B' DEMO PLAN
SCALE: 1/8" = 1'-0"

Westover Magnet Elementary School

City of Stamford - Stamford Public Schools
412 Stillwater Ave, Stamford, CT. 06902

PROJECT # S-6722

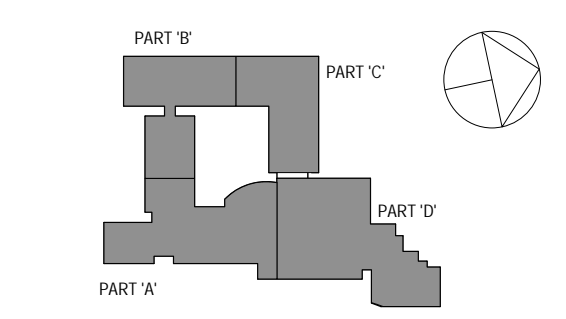


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CONSTRUCTION DOCUMENTS

SPN 135-0278RR



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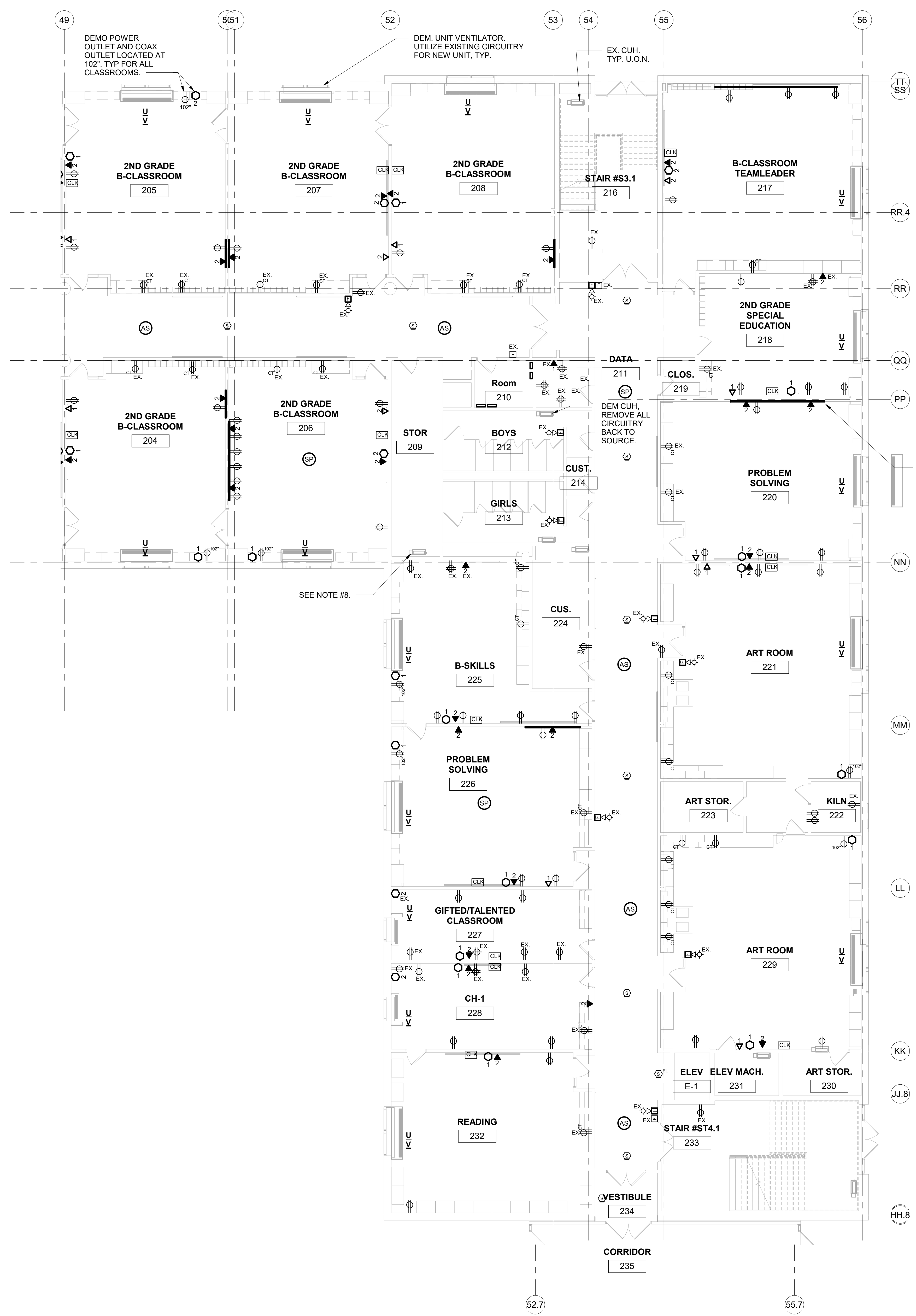
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- NOTES:**
1. DEM. ALL PA SPEAKERS, WALL MOUNTED CLOCKS AND ASSOCIATED CABLING BACK TO SOURCE. REFER TO IT DRAWINGS FOR NEW SPEAKER AND CLOCK DETAILS AND LOCATIONS.
 2. ALL SMOKE DETECTORS TO BE REMOVED AND LEFT PROPERLY SUPPORTED IN PLACE AND OPERATIONAL IN ORDER TO ACCOMMODATE DEMOLITION OF EXISTING CEILING. PROTECT AS REQUIRED. REINSTALL AT TIME OF NEW CONSTRUCTION.
 3. SEE DRAWING E-203 FOR LIGHTING SCOPE OF WORK.
 4. ALL WALL MOUNTED RECEPTACLES, DATA AND COAXIAL OUTLETS SHALL BE DEMOLISHED U.O.N. AS EXISTING TO REMAIN (EX.) LEAVE IN PLACE AND UTILIZE EXISTING RECEPTACLE BACK BOXES FOR NEW CONSTRUCTION. EXISTING RECEPTACLE CIRCUITRY SHALL BE UTILIZED FOR NEW CONSTRUCTION. REMOVE ALL LOW VOLTAGE CABLING ASSOCIATED WITH DATA AND COAXIAL OUTLETS. REFER TO IT DRAWINGS FOR ADDITIONAL DATA AND LOW VOLTAGE REQUIREMENTS.
 5. ALL WALL MOUNTED FIRE ALARM DEVICES SHALL BE REMOVED. PROPERLY STORED AND REINSTALLED (RR) U.O.N. AS EXISTING TO REMAIN (EX.).
 6. ALL WALL SCNCES TO BE REMOVED AND REINSTALLED, WHETHER SHOWN ON PLANS OR NOT. VERIFY LOCATIONS IN FIELD. UTILIZE EXISTING CIRCUITRY.
 7. REFER TO IT DRAWINGS FOR ADDITIONAL SCOPE OF WORK.
 8. REFER TO DRAWING E304 FOR WORK RELATED TO EXISTING CUH.

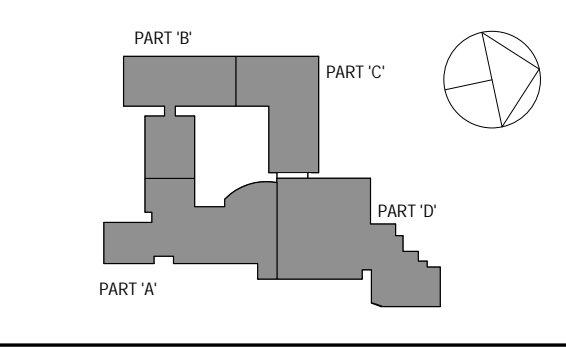
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3	8/6/2019	ISSUED FOR BID
2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING

ELECTRICAL 1ST FLOOR PART 'C' DEMO PLAN

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author / Checker
Sheet Number	E103		



ELECTRICAL 1ST FLOOR PART 'C' DEMO PLAN
SCALE: 1/8" = 1'-0"
NORTH



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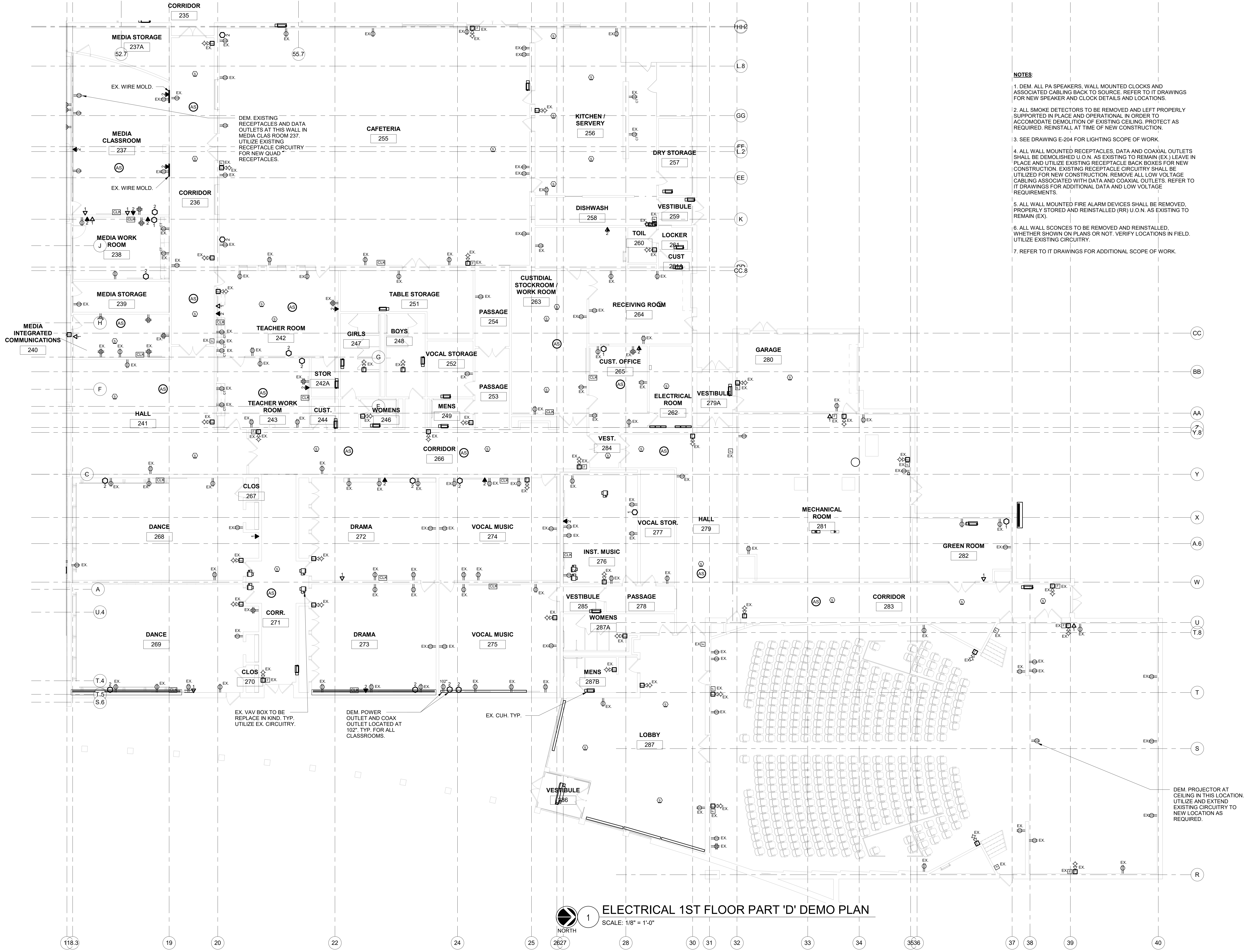
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No.	Date	Issue

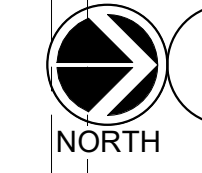
ELECTRICAL 1ST FLOOR PART 'D'
DEMO PLAN

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author Checker
Sheet Number	E104		

- NOTES:**
1. DEM. ALL PA SPEAKERS, WALL MOUNTED CLOCKS AND ASSOCIATED CABLING BACK TO SOURCE. REFER TO IT DRAWINGS FOR NEW SPEAKER AND CLOCK DETAILS AND LOCATIONS.
 2. ALL SMOKE DETECTORS TO BE REMOVED AND LEFT PROPERLY SUPPORTED IN PLACE AND OPERATIONAL IN ORDER TO ACCOMMODATE DEMOLITION OF EXISTING CEILING. PROTECT AS REQUIRED. REINSTALL AT TIME OF NEW CONSTRUCTION.
 3. SEE DRAWING E-204 FOR LIGHTING SCOPE OF WORK.
 4. ALL WALL MOUNTED RECEPTACLES, DATA AND COAXIAL OUTLETS SHALL BE DEMOLISHED U.O.N. AS EXISTING TO REMAIN (EX.) LEAVE IN PLACE AND UTILIZE EXISTING RECEPTACLE BACK BOXES FOR NEW CONSTRUCTION. EXISTING RECEPTACLE CIRCUITRY SHALL BE UTILIZED FOR NEW CONSTRUCTION. REMOVE ALL LOW VOLTAGE CABLING ASSOCIATED WITH DATA AND COAXIAL OUTLETS. REFER TO IT DRAWINGS FOR ADDITIONAL DATA AND LOW VOLTAGE REQUIREMENTS.
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 7. REFER TO IT DRAWINGS FOR ADDITIONAL SCOPE OF WORK.



1 ELECTRICAL 1ST FLOOR PART 'D' DEMO PLAN
SCALE: 1/8" = 1'-0"



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Westover Magnet Elementary School

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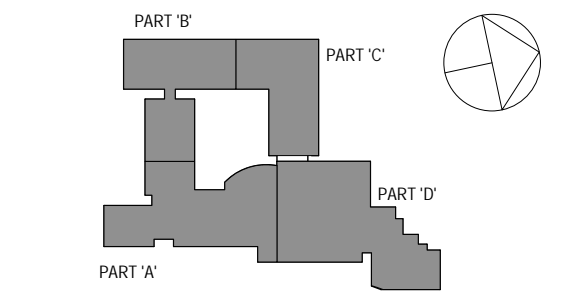
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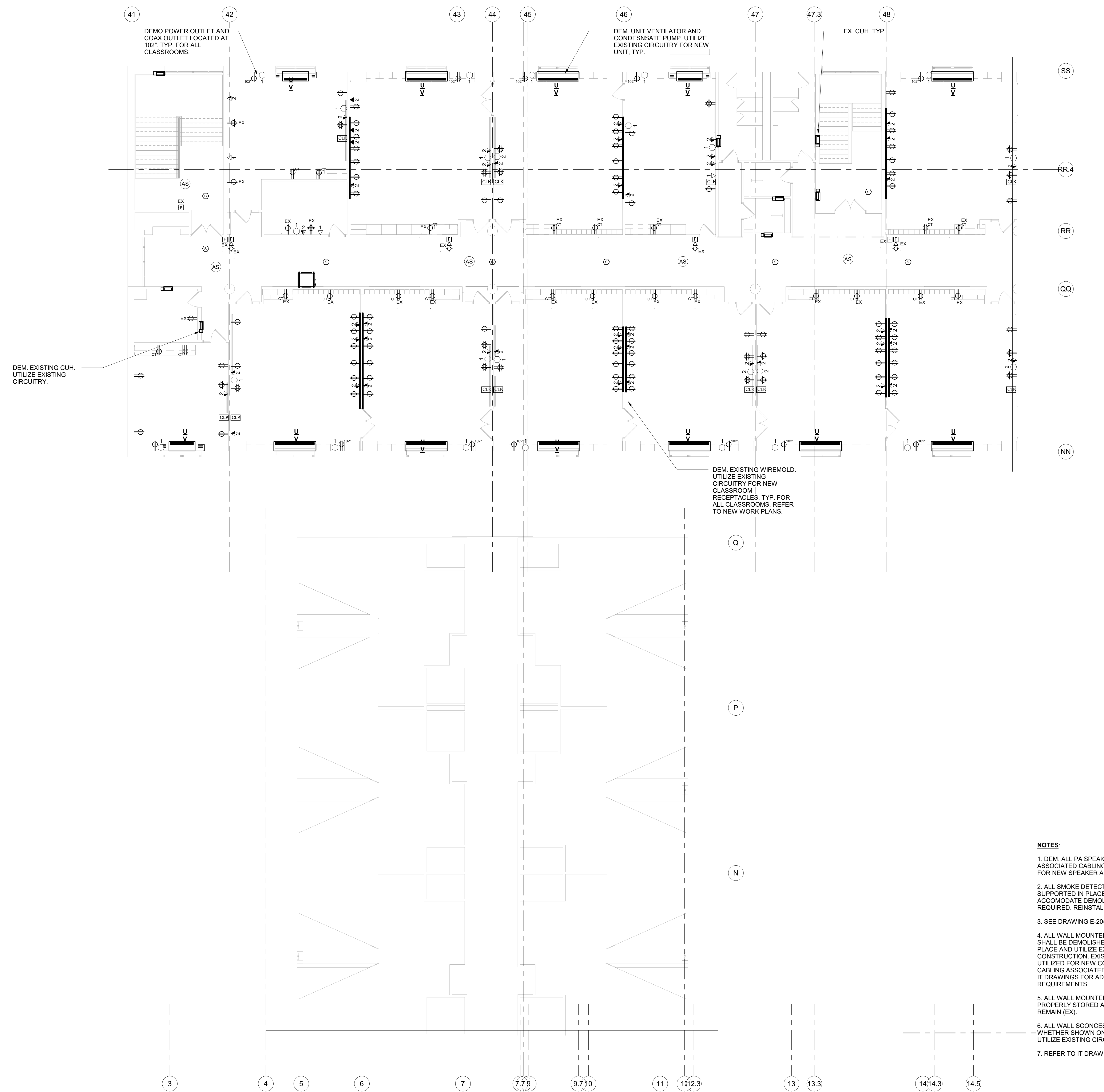
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Sheet Title
ELECTRICAL 2ND FLOOR PART 'B' DEMO PLAN

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author / Checker
Sheet Number	E105		



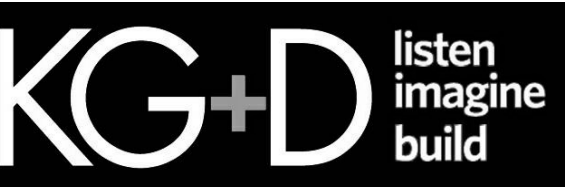
- NOTES:**
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 3. SEE DRAWING E-205 FOR LIGHTING SCOPE OF WORK.
 4. ALL WALL MOUNTED RECEPTACLES, DATA AND COAXIAL OUTLETS SHALL BE DEMOLISHED U.O.N. AS EXISTING TO REMAIN (EX.) LEAVE IN PLACE AND UTILIZE EXISTING RECEPTACLE BACK BOXES FOR NEW CONSTRUCTION. EXISTING RECEPTACLE CIRCUITRY SHALL BE UTILIZED FOR NEW CONSTRUCTION. REMOVE ALL LOW VOLTAGE CABLING ASSOCIATED WITH DATA AND COAXIAL OUTLETS. REFER TO IT DRAWINGS FOR ADDITIONAL DATA AND LOW VOLTAGE REQUIREMENTS.
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ELECTRICAL 2ND FLOOR PART 'B' DEMO PLAN
SCALE: 1/8" = 1'-0"
NORTH

Westover Magnet Elementary School

City of Stamford - Stamford Public Schools
412 Stillwater Ave, Stamford, CT. 06902

PROJECT # S-6722

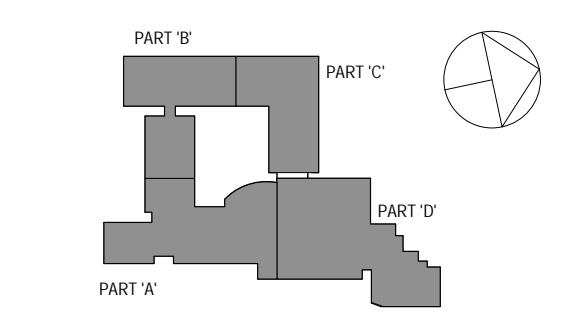


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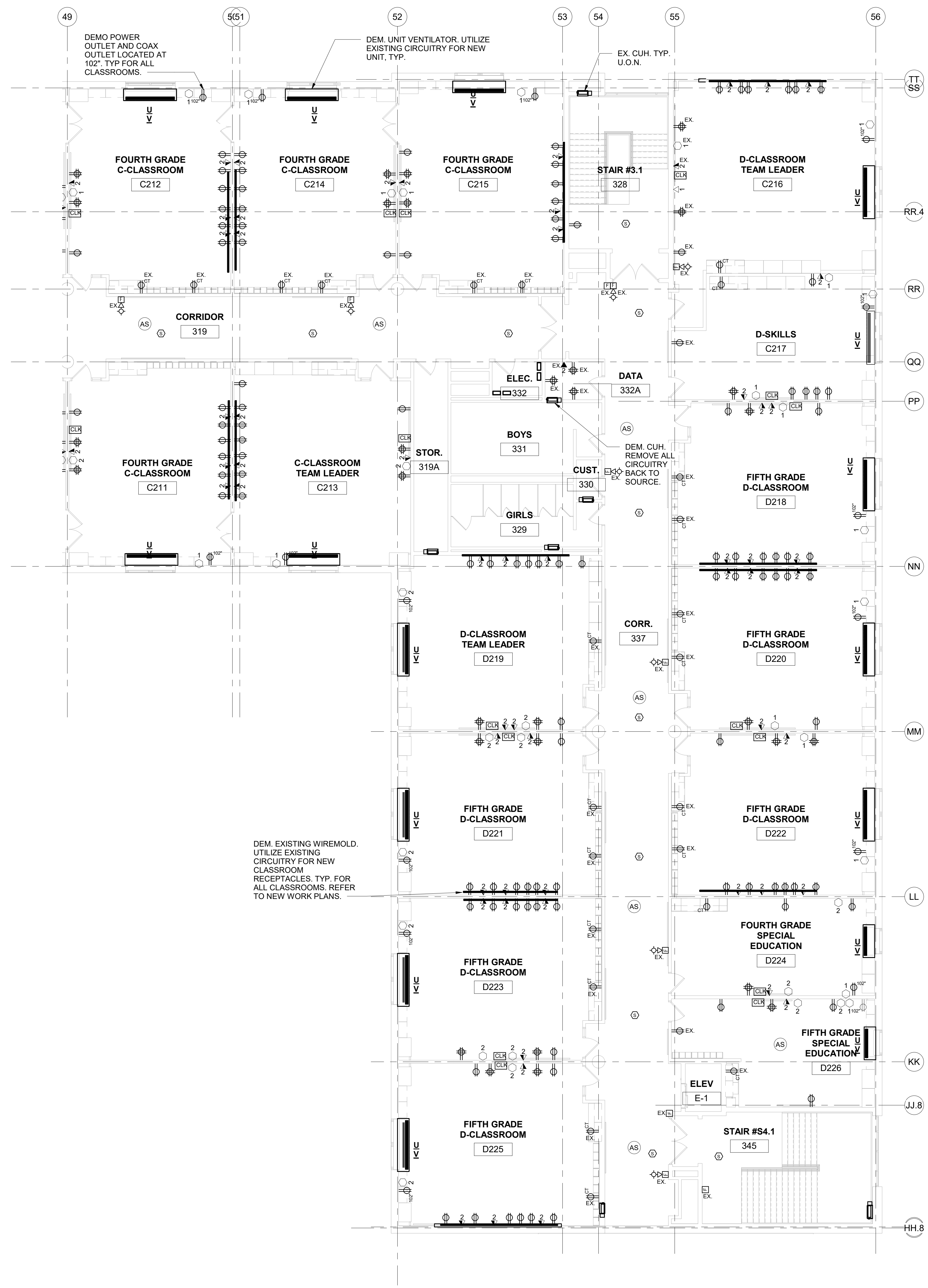
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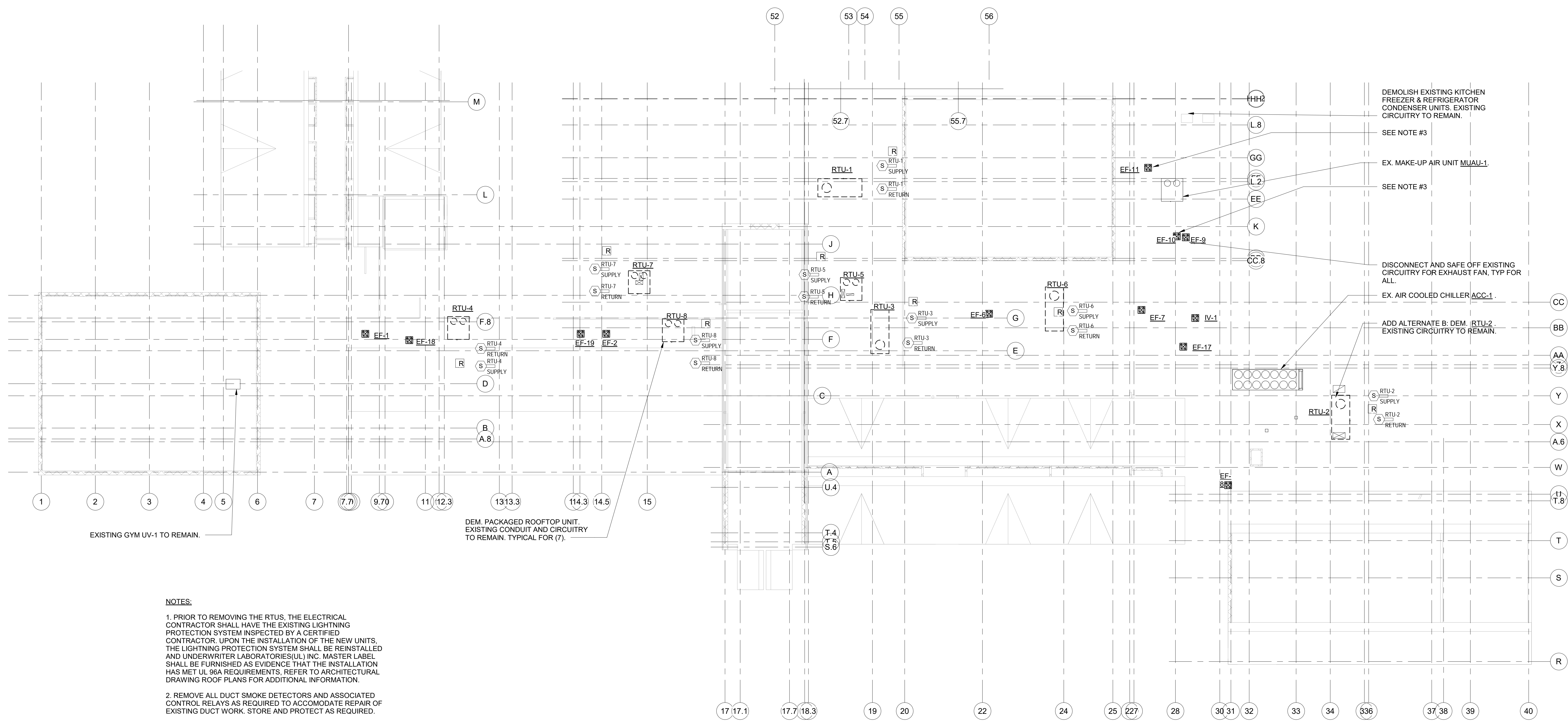
ELECTRICAL 2ND FLOOR PART 'C' DEMO PLAN

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author Checker
Sheet Number	E106		



- NOTES:**
1. DEM. ALL PA SPEAKERS, WALL MOUNTED CLOCKS AND ASSOCIATED CABLING BACK TO SOURCE. REFER TO IT DRAWINGS FOR NEW SPEAKER AND CLOCK DETAILS AND LOCATIONS.
 2. ALL SMOKE DETECTORS TO BE REMOVED AND LEFT PROPERLY SUPPORTED IN PLACE AND OPERATIONAL IN ORDER TO ACCOMMODATE DEMOLITION OF EXISTING CEILING. PROTECT AS REQUIRED. REINSTALL AT TIME OF NEW CONSTRUCTION.
 3. SEE DRAWING E-206 FOR LIGHTING SCOPE OF WORK.
 4. ALL WALL MOUNTED RECEPTACLES, DATA AND COAXIAL OUTLETS SHALL BE DEMOLISHED U.O.N. AS EXISTING TO REMAIN (EX.) LEAVE IN PLACE AND UTILIZE EXISTING RECEPTACLE BACK BOXES FOR NEW CONSTRUCTION. EXISTING RECEPTACLE CIRCUITRY SHALL BE UTILIZED FOR NEW CONSTRUCTION. REMOVE ALL LOW VOLTAGE CABLING ASSOCIATED WITH DATA AND COAXIAL OUTLETS. REFER TO IT DRAWINGS FOR ADDITIONAL DATA AND LOW VOLTAGE REQUIREMENTS.
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ELECTRICAL 2ND FLOOR PART 'C' DEMO PLAN
SCALE: 1/8" = 1'-0"

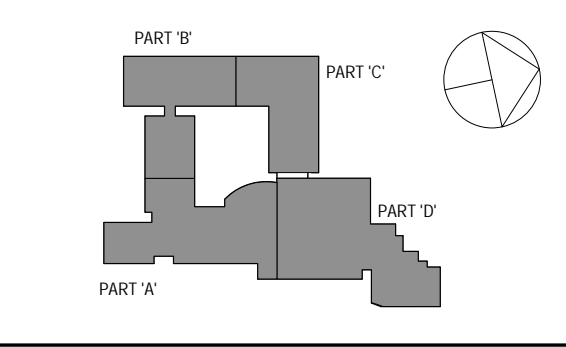


- NOTES:**
1. PRIOR TO REMOVING THE RTUS, THE ELECTRICAL CONTRACTOR SHALL HAVE THE EXISTING LIGHTNING PROTECTION SYSTEM INSPECTED BY A CERTIFIED CONTRACTOR. UPON THE INSTALLATION OF THE NEW UNITS, THE LIGHTNING PROTECTION SYSTEM SHALL BE REINSTALLED AND UNDERWRITER LABORATORIES(U/L) INC. MASTER LABEL SHALL BE FURNISHED AS EVIDENCE THAT THE INSTALLATION HAS MET UL 96A REQUIREMENTS. REFER TO ARCHITECTURAL DRAWING ROOF PLANS FOR ADDITIONAL INFORMATION.
 2. REMOVE ALL DUCT SMOKE DETECTORS AND ASSOCIATED CONTROL RELAYS AS REQUIRED TO ACCOMMODATE REPAIR OF EXISTING DUCT WORK. STORE AND PROTECT AS REQUIRED.
 3. EXISTING EXHAUST FANS EF-20 AND EF-11 SHALL BE REMOVED. SAFE OFF AND UTILIZE EXISTING CIRCUITRY.

ELECTRICAL ROOF DEMOLITION PLAN
SCALE: 1/16" = 1'-0"
NORTH

- DEMOLISH EXISTING KITCHEN FREEZER & REFRIGERATOR CONDENSER UNITS. EXISTING CIRCUITRY TO REMAIN.
- SEE NOTE #3
- EX. MAKE-UP AIR UNIT MUAU-1.
- SEE NOTE #3
- DISCONNECT AND SAFE OFF EXISTING CIRCUITRY FOR EXHAUST FAN, TYP FOR ALL.
- EX. AIR COOLED CHILLER ACC-1.
- ADD ALTERNATE B: DEM. RTU-2. EXISTING CIRCUITRY TO REMAIN.

SPN 135-0278RR



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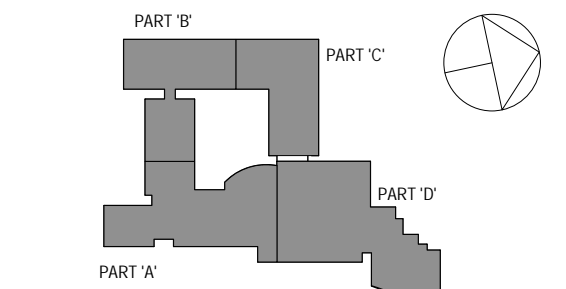
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3	8/6/2019	ISSUED FOR BID
2	6/5/2019	CLIENT REVIEW SET
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ELECTRICAL ROOF PLAN DEMO

Job No.	NKGD0206.00	Date	08/06/2019
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Sheet Title

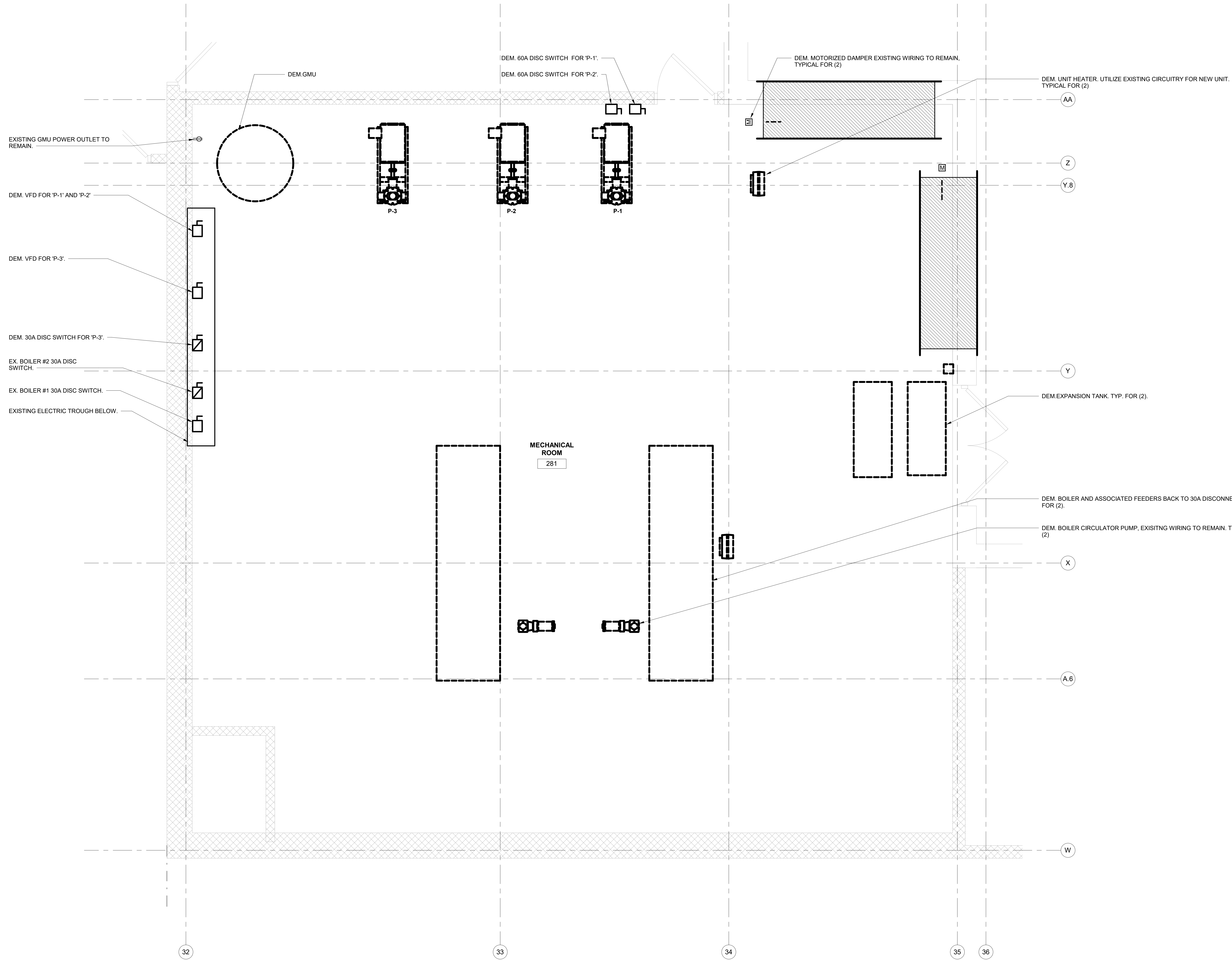
ELECTRICAL BOILER ROOM DEMOLITION PLAN - ALTERNATE A

Job No.	Date
NKGD0206.00	08/06/2019

Scale AS NOTED Drawn / Checked Author Checker

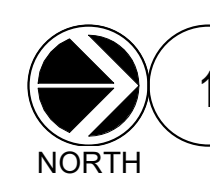
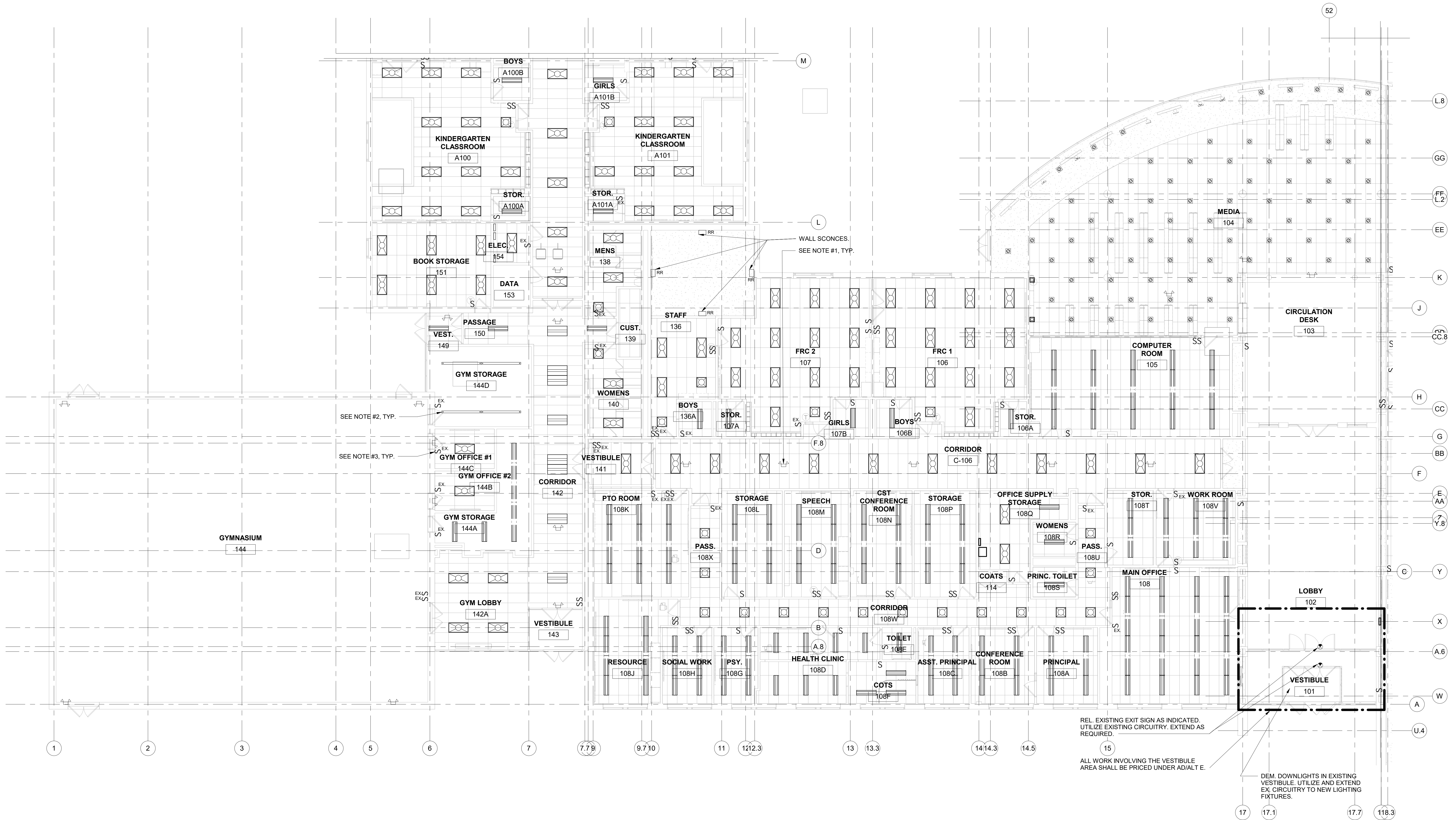
Sheet Number

E108



1 ELECTRICAL BOILER ROOM DEMOLITION PLAN - ALTERNATE A
SCALE: 1/2" = 1'-0"

- NOTES:**
- ALL CIRCUITRY AND CONDUIT ASSOCIATED WITH PUMPS P-1, P-2 AND P-3 SHALL BE REMOVED BACK TO FEEDER TAP IN ELECTRICAL TROUGH.
 - DEM. CIRCUITRY ASSOCIATED WITH EXISTING BOILERS BACK TO 30A DISCONNECT SWITCHES LOCATED AT TROUGH. UTILIZE EXISTING CONDUIT FOR NEW BOILERS.
 - ALL SCOPE OF WORK SHOWN ON THIS DRAWING SHALL BE PROCED UNDER ADD/ALT A.



ELECTRICAL 1ST FLOOR PART 'A' NEW WORK LIGHTING PLAN

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

- NOTES:**
- ALL 1'X1' EMERGENCY FIXTURES RECESSED IN CEILING TILE TO BE REMOVED, STORED, AND REINSTALLED WITH THE REPLACEMENT OF THE CEILING TILE.
 - ALL LIGHTING FIXTURES ARE EXISTING TO REMAIN AND SHALL BE LEFT IN PLACE U.O.N. AS REMOVE AND REINSTALL (RR).
 - ALL LIGHTING CONTROLS SHALL BE REMOVED AND REPLACE IN KIND U.O.N. AS EXISTING TO REMAIN (EX). UTILIZE EXISTING BACK BOXES.
 - ALL WALL SCONCES TO BE REMOVED, STORED AND REINSTALLED, WHETHER SHOWN ON PLANS OR NOT. VERIFY LOCATIONS IN FIELD. UTILIZE EXISTING CIRCUITRY.

REL. EXISTING EXIT SIGN AS INDICATED. UTILIZE EXISTING CIRCUITRY. EXTEND AS REQUIRED.

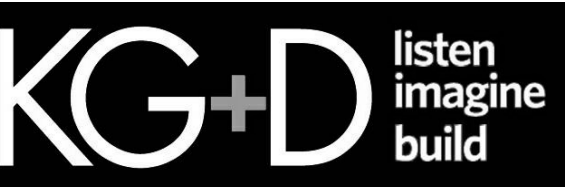
ALL WORK INVOLVING THE VESTIBULE AREA SHALL BE PRICED UNDER AD/ALTE.

DEM. DOWNLIGHTS IN EXISTING VESTIBULE. UTILIZE AND EXTEND EX. CIRCUITRY TO NEW LIGHTING FIXTURES.

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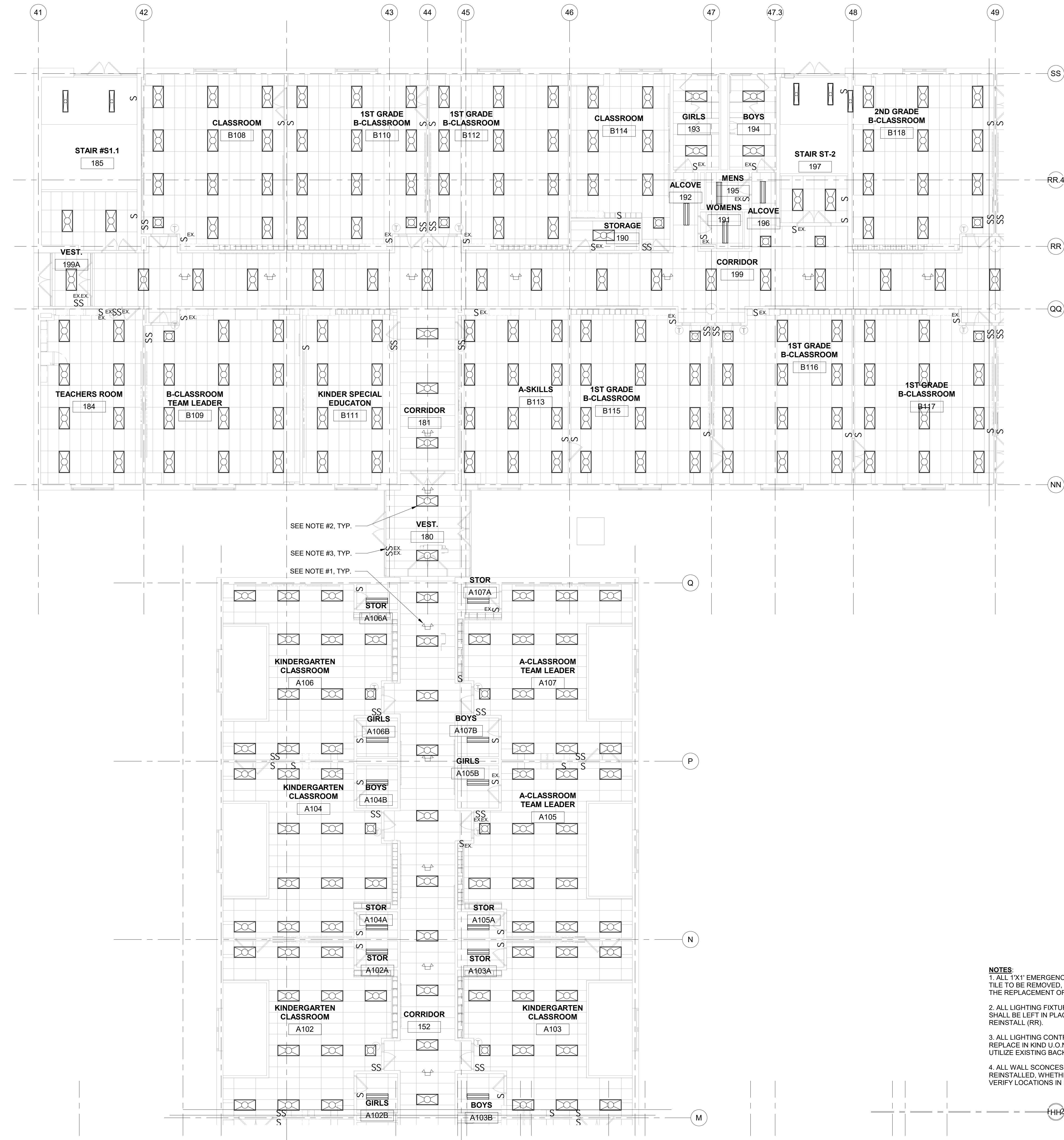
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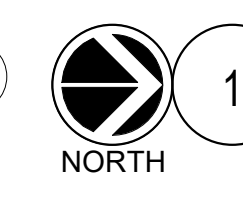


CONSTRUCTION DOCUMENTS



SEE NOTE #2, TYP.
SEE NOTE #3, TYP.
SEE NOTE #1, TYP.

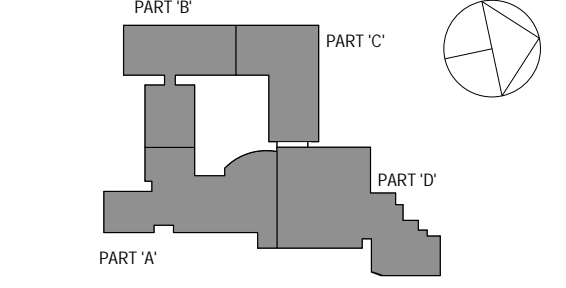
- NOTES:**
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ELECTRICAL 1ST FLOOR PART 'B' NEW WORK LIGHTING PLAN

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

SPN 135-0278RR



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ELECTRICAL 1ST FLOOR PART 'B' NEW WORK LIGHTING PLAN

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Sheet Number
E202

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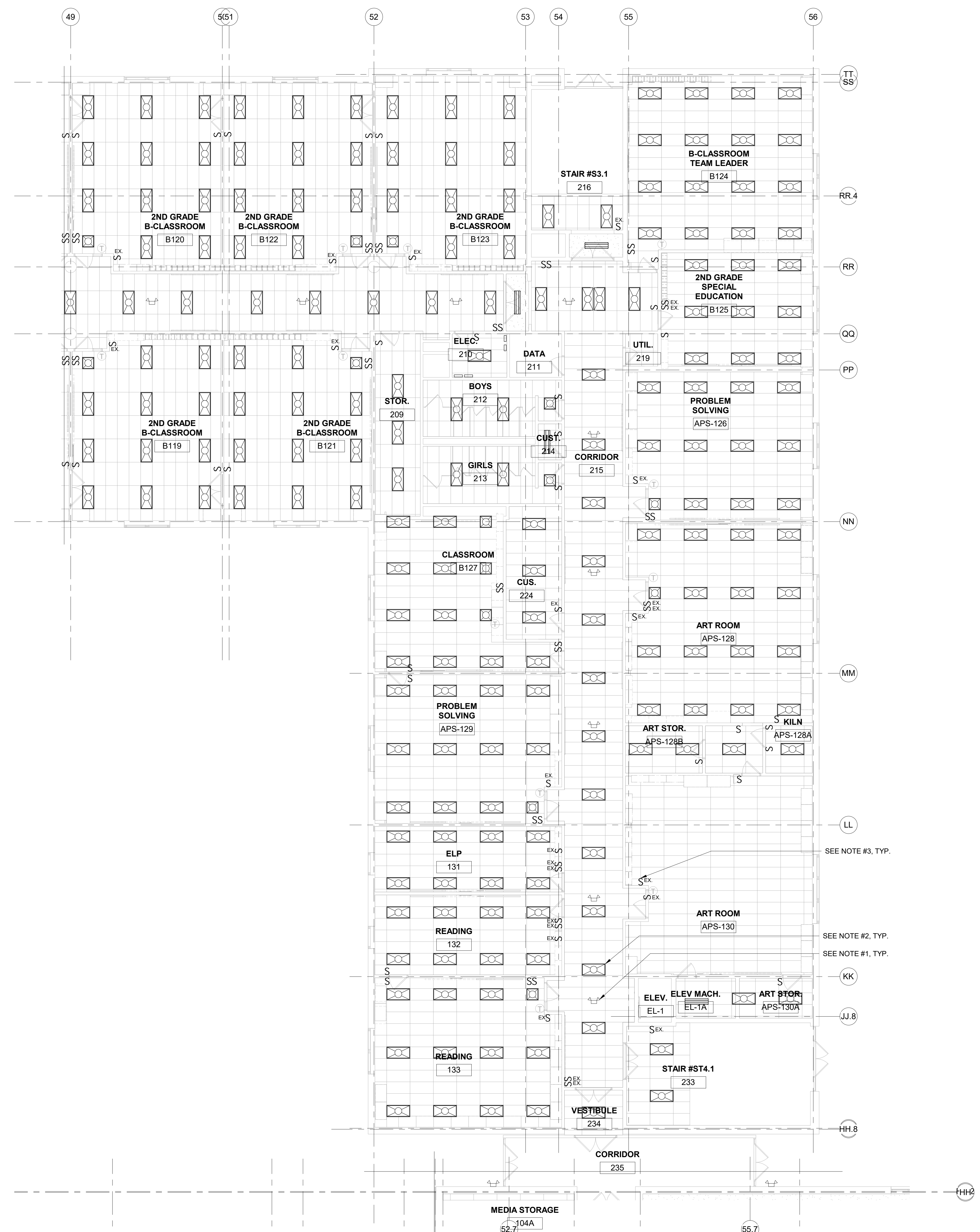
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PROJECT # S-6722

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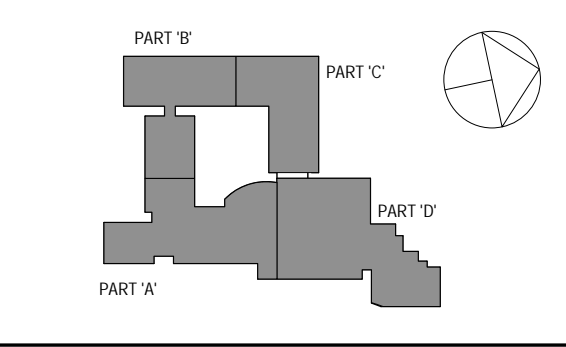
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CONSTRUCTION DOCUMENTS



- NOTES:**
1. ALL 1'X1' EMERGENCY FIXTURES RECESSED IN CEILING TILE TO BE REMOVED, STORED, AND REINSTALLED WITH THE REPLACEMENT OF THE CEILING TILE.
 2. ALL LIGHTING FIXTURES ARE EXISTING TO REMAIN AND SHALL BE LEFT IN PLACE U.O.N. AS REMOVE AND REINSTALL (RR).
 3. ALL LIGHTING CONTROLS SHALL BE REMOVED AND REPLACE IN KIND U.O.N. AS EXISTING TO REMAIN (EX). UTILIZE EXISTING BACK BOXES.
 4. ALL WALL SCONCES TO BE REMOVED, STORED AND REINSTALLED, WHETHER SHOWN ON PLANS OR NOT. VERIFY LOCATIONS IN FIELD. UTILIZE EXISTING CIRCUITRY.

SPN 135-0278RR



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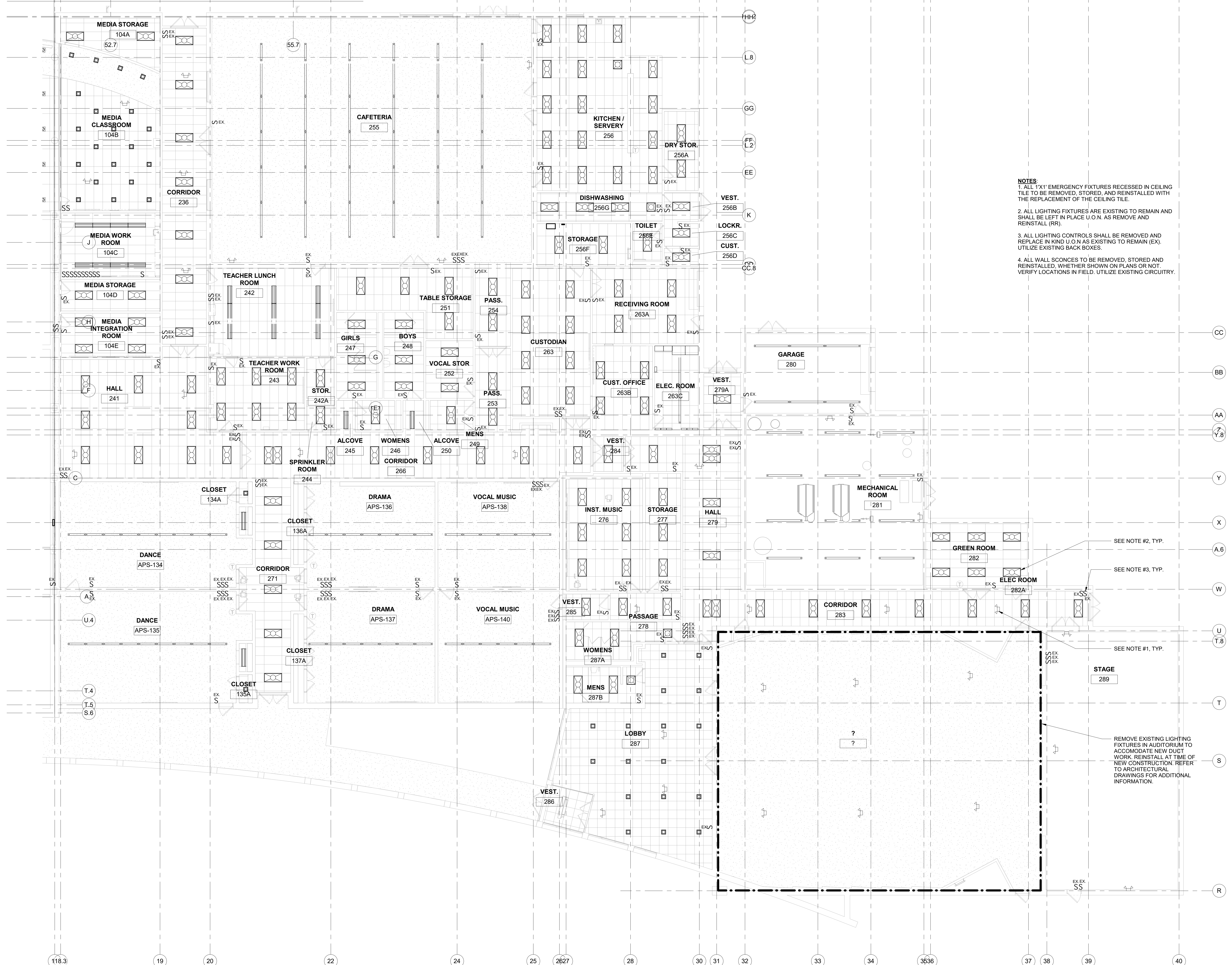
ELECTRICAL 1ST FLOOR PART 'C'
NEW WORK LIGHTING PLAN

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author / Checker

Sheet Number
E203

ELECTRICAL 1ST FLOOR PART 'C' NEW WORK LIGHTING PLAN
SCALE: 1/8" = 1'-0"

- NOTES:**
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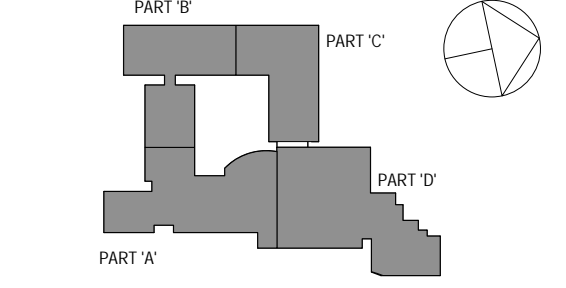
SEE NOTE #2, TYP.

SEE NOTE #3, TYP.

SEE NOTE #1, TYP.

REMOVE EXISTING LIGHTING FIXTURES IN AUDITORIUM TO ACCOMMODATE NEW DUCT WORK. REINSTALL AT TIME OF NEW CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

SPN 135-0278RR



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No.	Date	Issue

ELECTRICAL 1ST FLOOR PART 'D'
NEW WORK LIGHTING PLAN

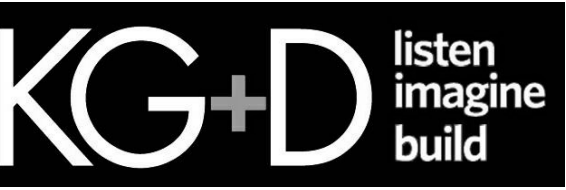
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Scale	AS NOTED	Drawn / Checked	Author Checker
Sheet Number	E204		

1 ELECTRICAL 1ST FLOOR PART 'D' NEW WORK LIGHTING PLAN
SCALE: 1/8" = 1'-0"

Westover Magnet Elementary School

City of Stamford - Stamford Public Schools
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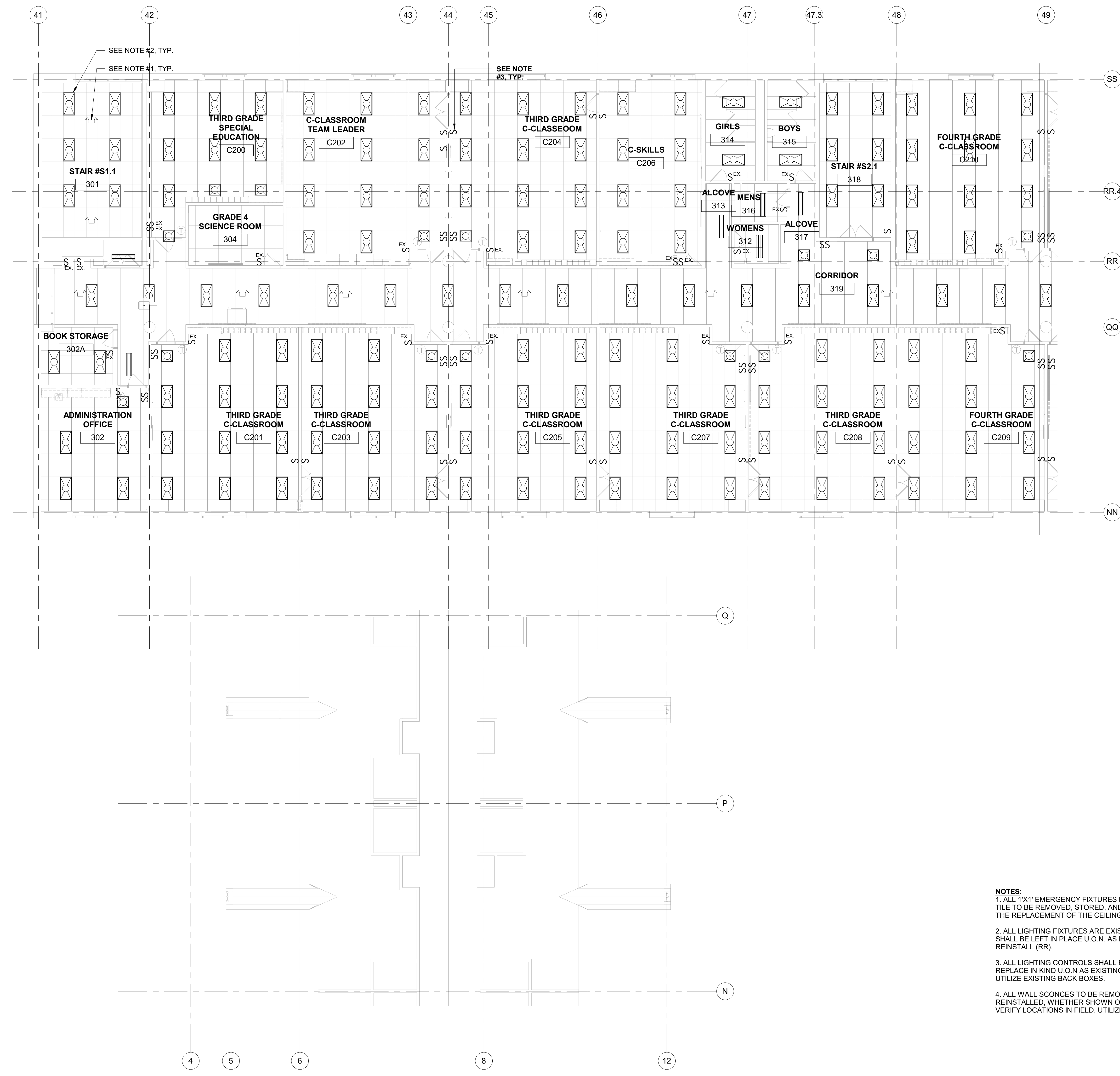
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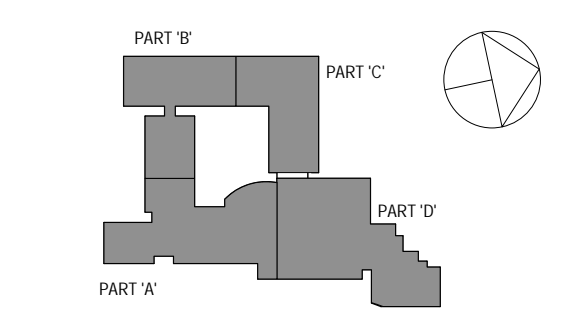
CONSTRUCTION DOCUMENTS



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1 ELECTRICAL 2ND FLOOR PART 'B' NEW WORK LIGHTING PLAN
SCALE: 1/8" = 1'-0"

SPN 135-0278RR



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ELECTRICAL 2ND FLOOR PART 'B'
NEW WORK LIGHTING PLAN

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author Checker

Sheet Number
E205

Westover Magnet Elementary School

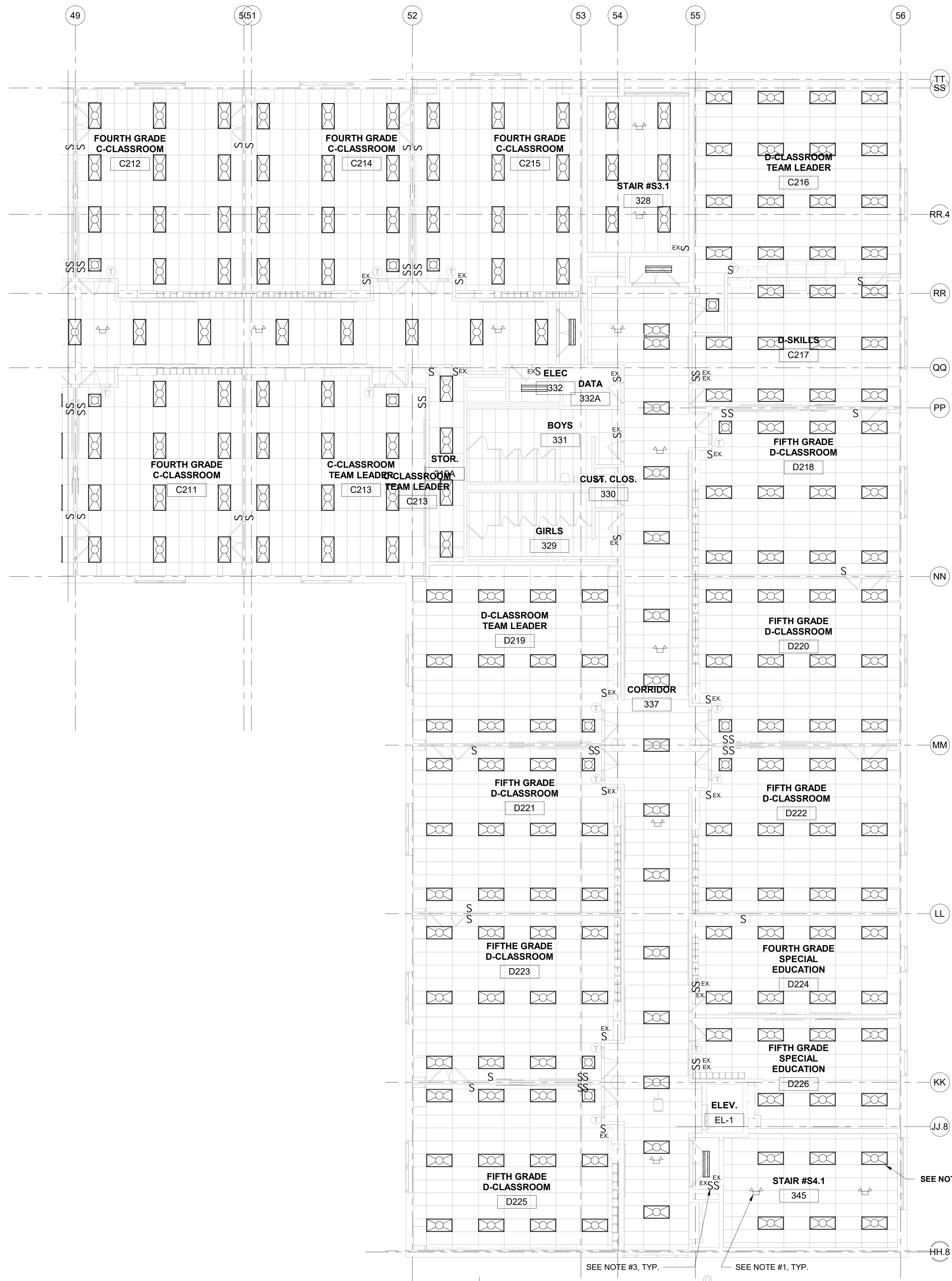
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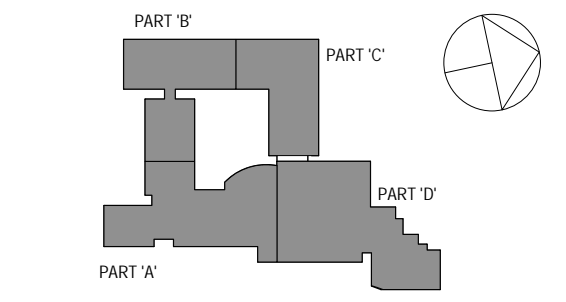
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CONSTRUCTION DOCUMENTS



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2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING

ELECTRICAL 2ND FLOOR PART 'C'
NEW WORK LIGHTING PLAN

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author Checker

Sheet Number
E206

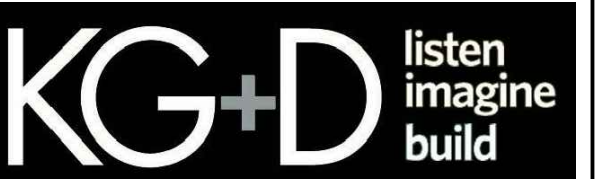
1 ELECTRICAL 2ND FLOOR PART 'C' NEW WORK LIGHTING PLAN
SCALE: 1/8" = 1'-0"

Westover Magnet Elementary School

City of Stamford - Stamford Public Schools

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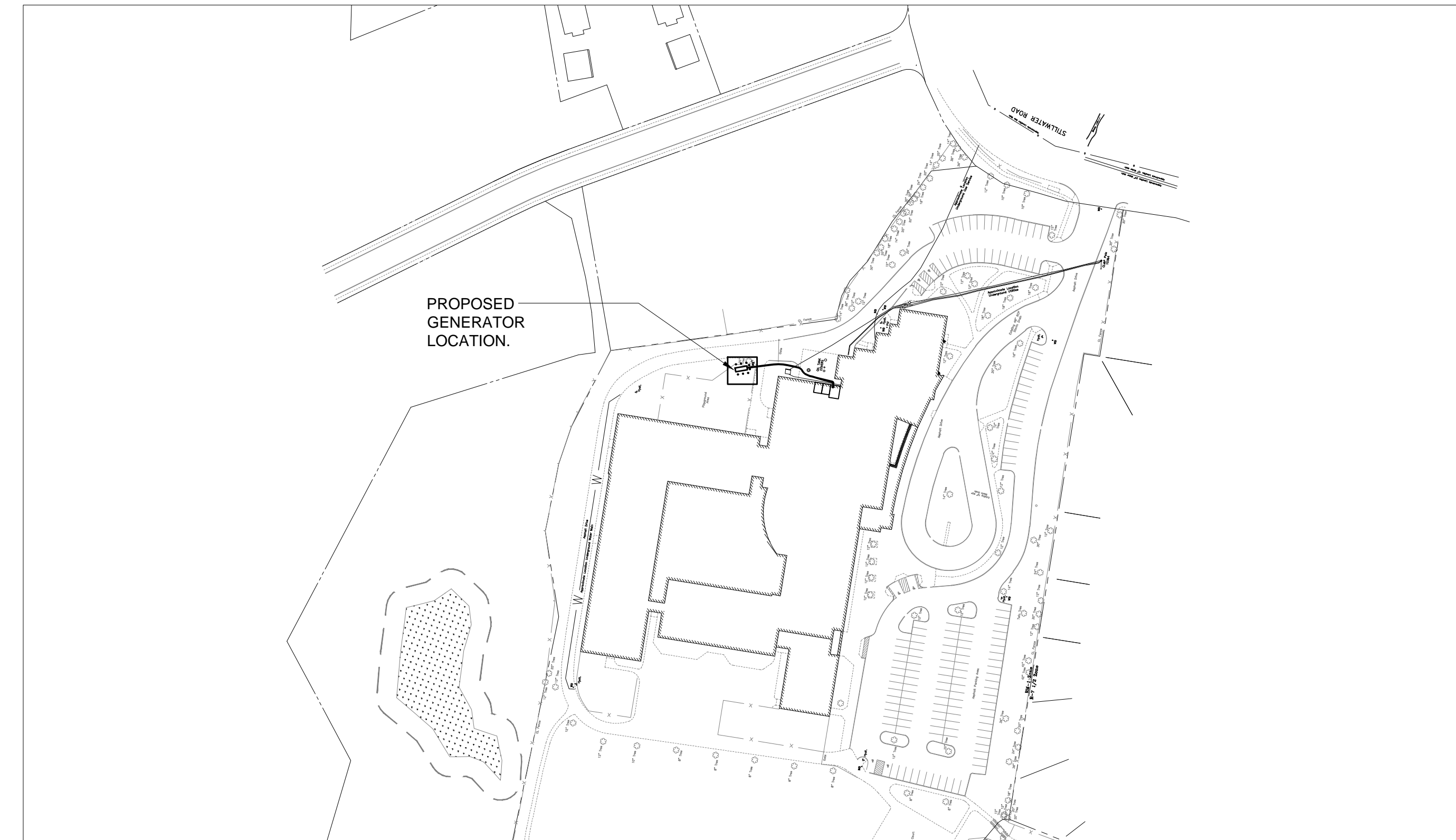
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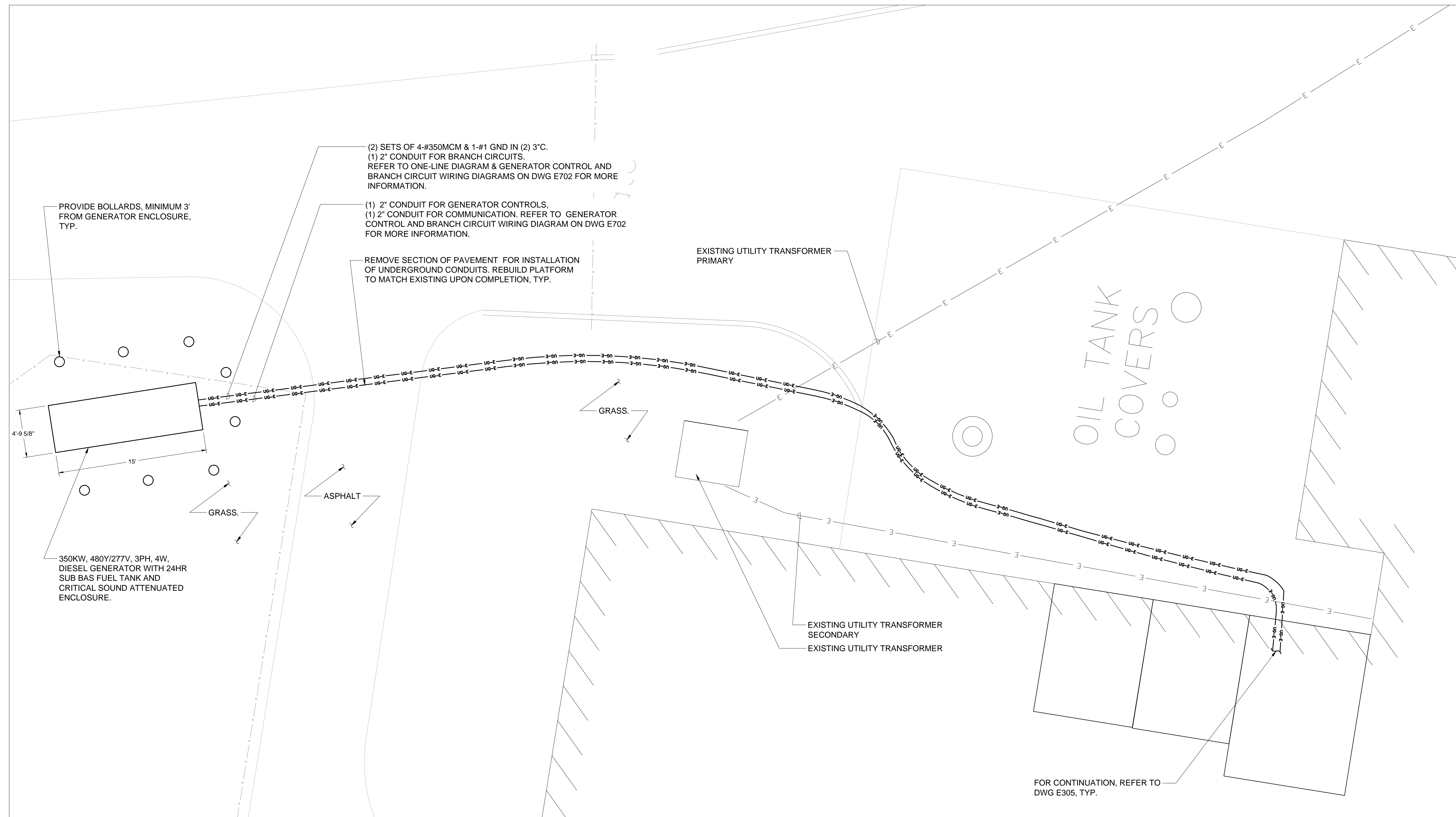
CONSTRUCTION DOCUMENTS



2 ELECTRICAL SITE KEY PLAN
SCALE: 1/128" = 1'-0"
NORTH

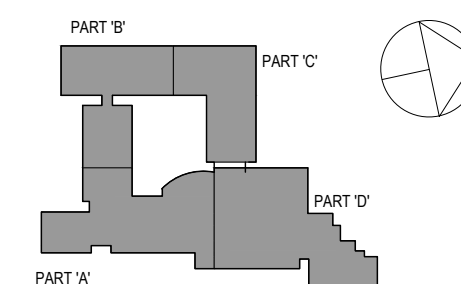
NOTES:

- 1.) ALL GENERATOR ENCLOSURE DIMENSIONS SHOWN ARE TO BE CONFIRMED BY GENERATOR MANUFACTURER.
- 2.) GENERATOR SHALL HAVE CRITICAL SOUND ATTENUATED WEATHERPROOF ENCLOSURE .
- 3.) GENERATOR CONCRETE PAD SHALL EXTRUDE AT LEAST 6" ABOVE GRADE AND EXTEND A MINIMUM OF 3' FROM ALL SIDES OF GENERATOR ENCLOSURE. FINAL LOCATION OF PAD SHALL BE DETERMINED IN FIELD.
- 4.) ELECTRICAL CONTRACTOR (E.C.) SHALL VERIFY DEPTH OF ALL EXISTING UNDERGROUND UTILITIES INCLUDING, BUT NOT LIMITED TO: PRIMARY AND SECONDARY UTILITY FEEDERS, OIL TANK, ETC.
- 5.) ALL UNDERGROUND CONDUITS SHALL BE CONCRETE ENCASED. SEE DWG E702 FOR ADDITIONAL INFORMATION.
- 6.) SCOPE OF WORK INVOLVING THE GENERATOR AND ASSOCIATED EQUIPMENT SHALL BE PRICED UNDER ADD/ALT C.



1 ELECTRICAL SITE PLAN
SCALE: 3/16" = 1'-0"
NORTH

SPN 135-0278RR



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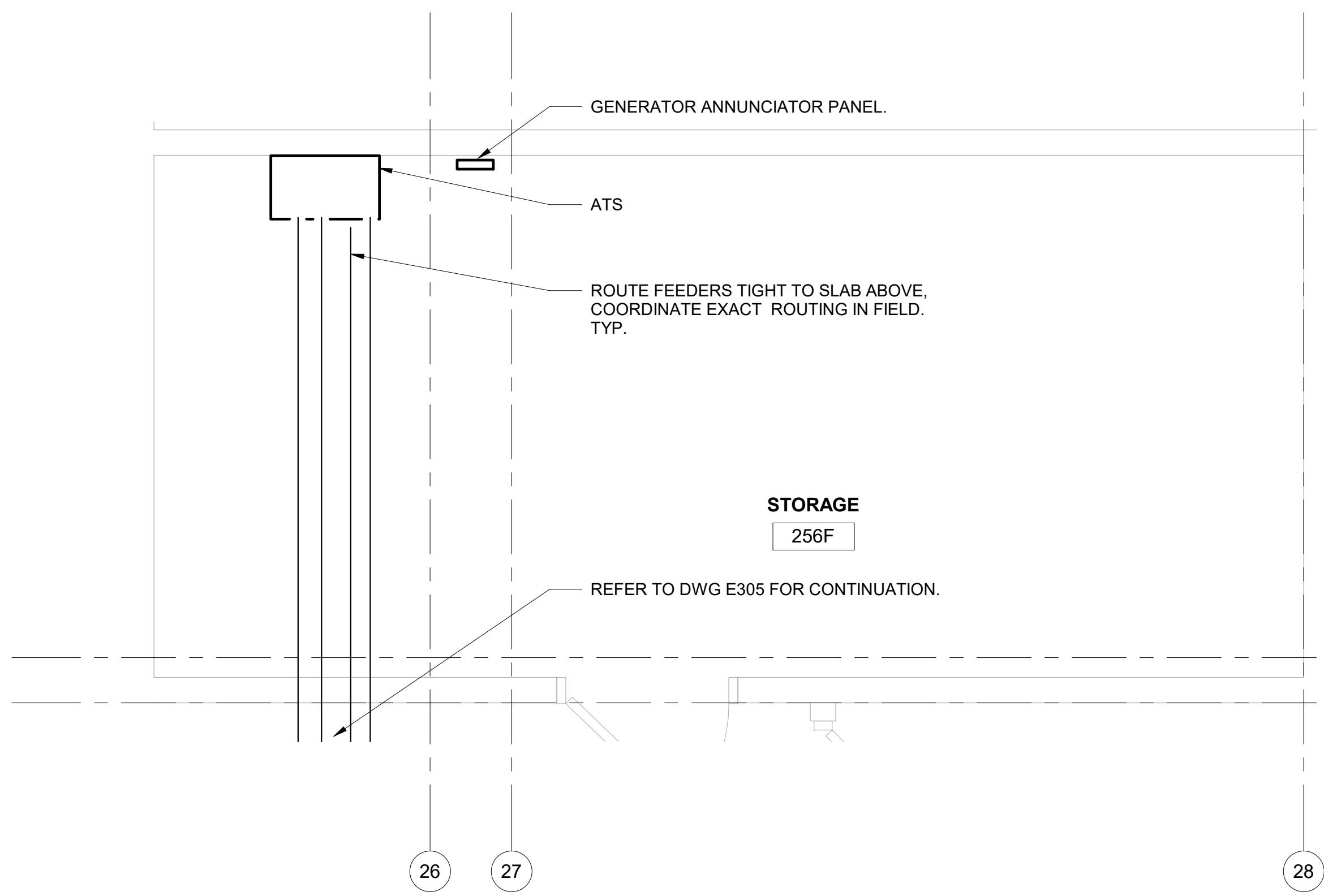
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Sheet Title
ELECTRICAL SITE PLAN

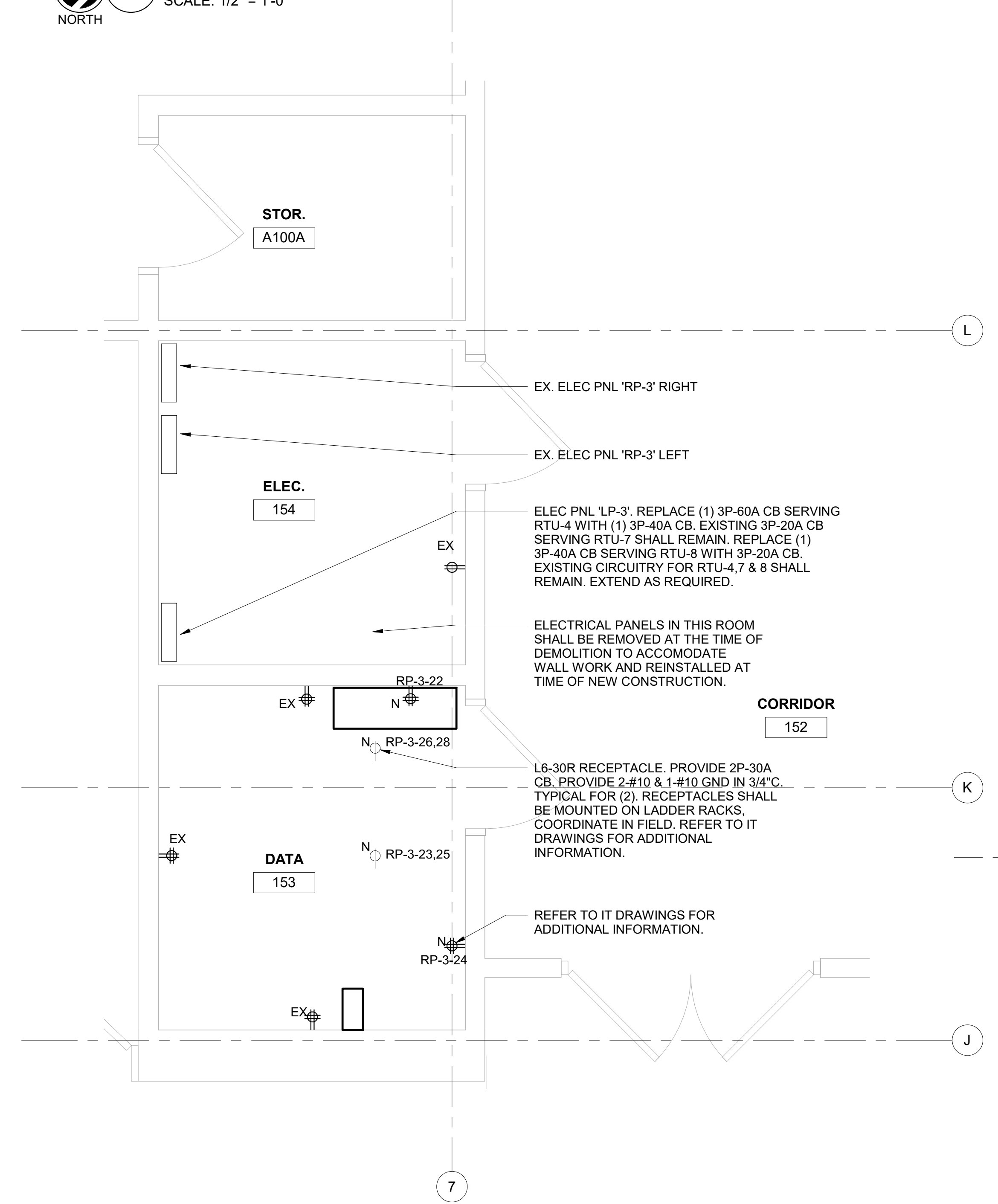
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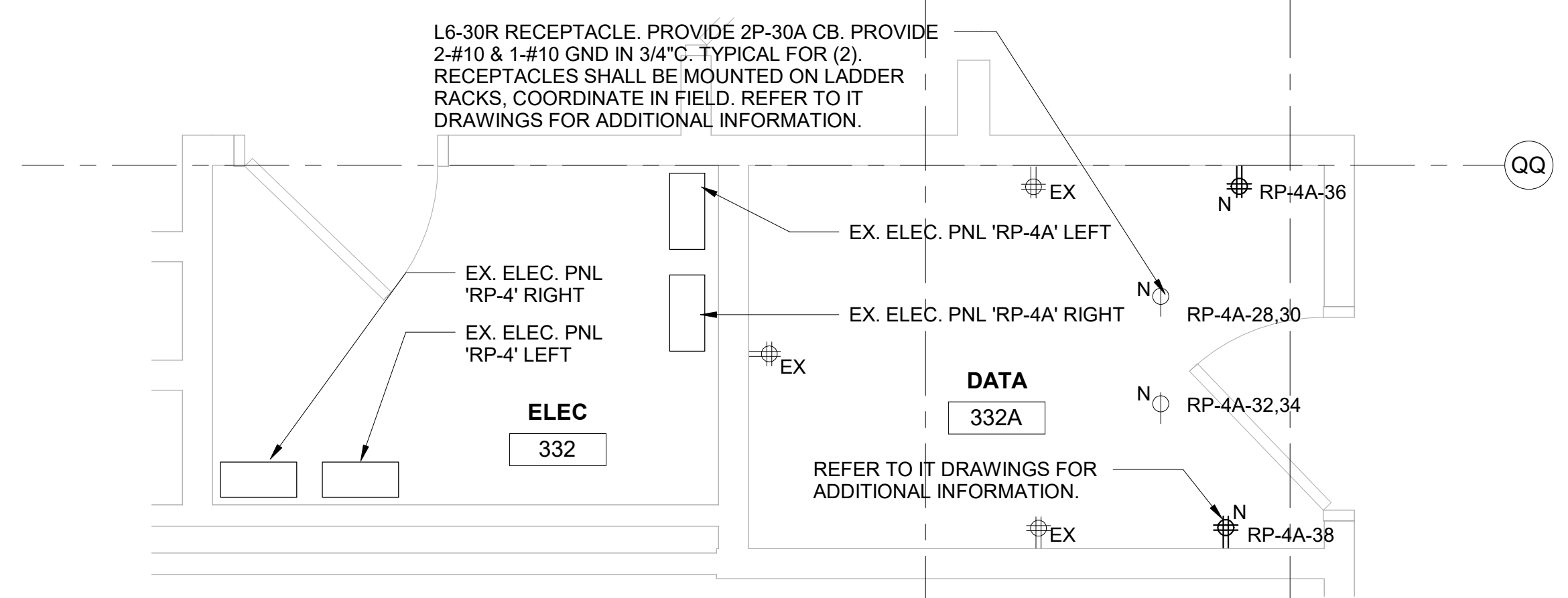
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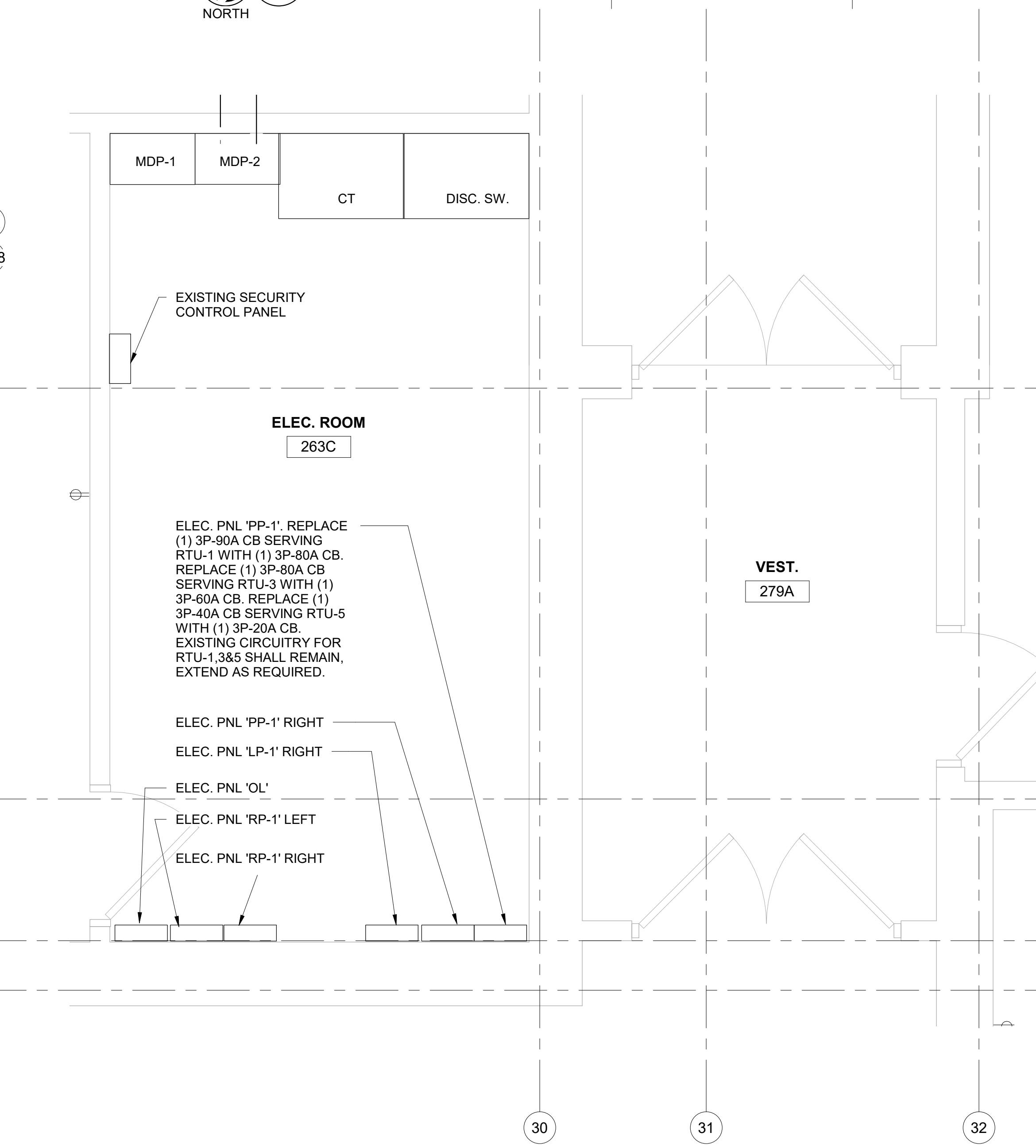
7 ELECTRICAL 1ST FLOOR PART PLAN 4 - ATS ROOM
SCALE: 1/2" = 1'-0"



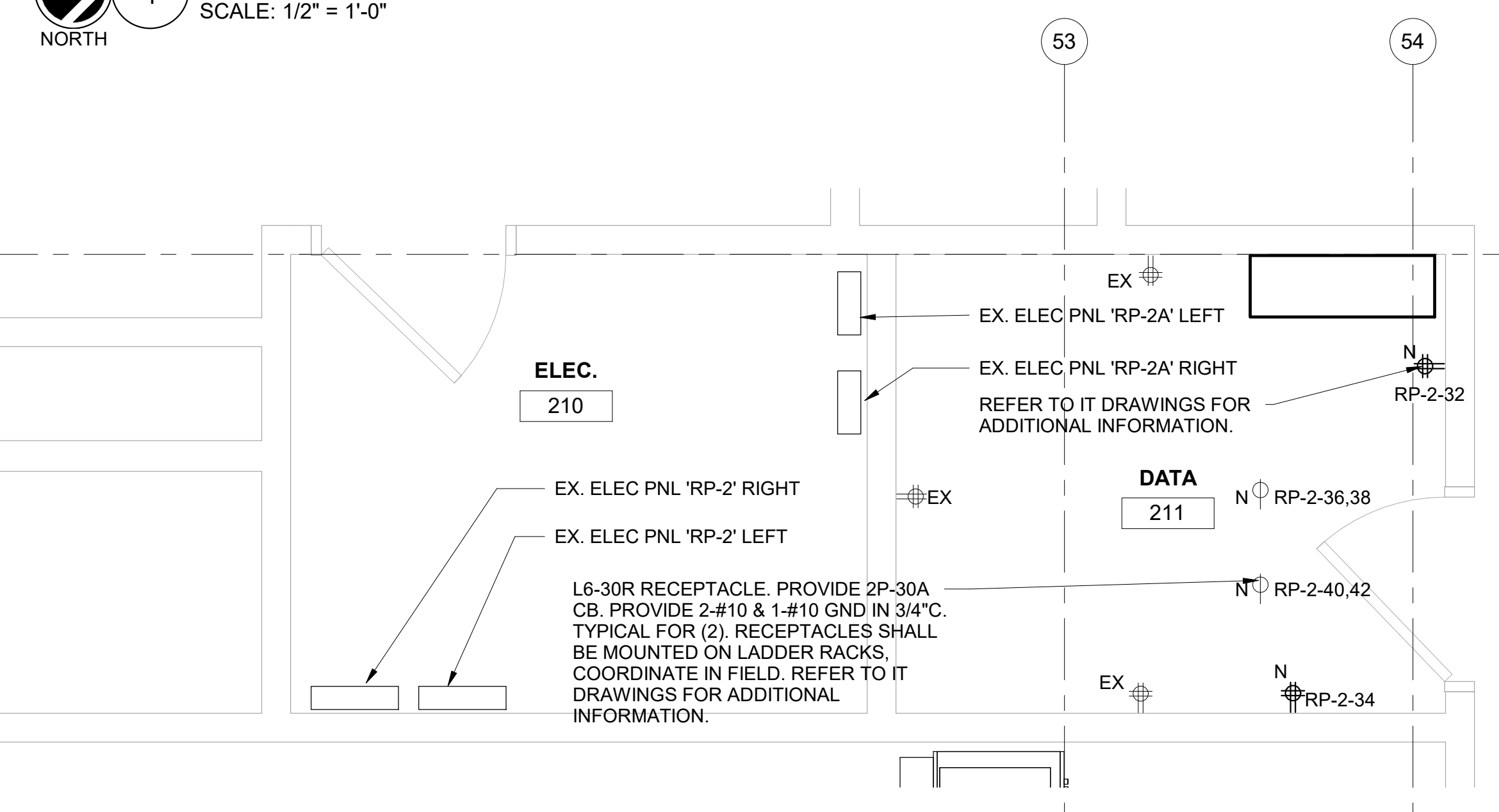
6 ELECTRICAL 1ST FLOOR PART PLAN 3
SCALE: 1/2" = 1'-0"



5 ELECTRICAL 2ND FLOOR PART PLAN 5
SCALE: 1/2" = 1'-0"

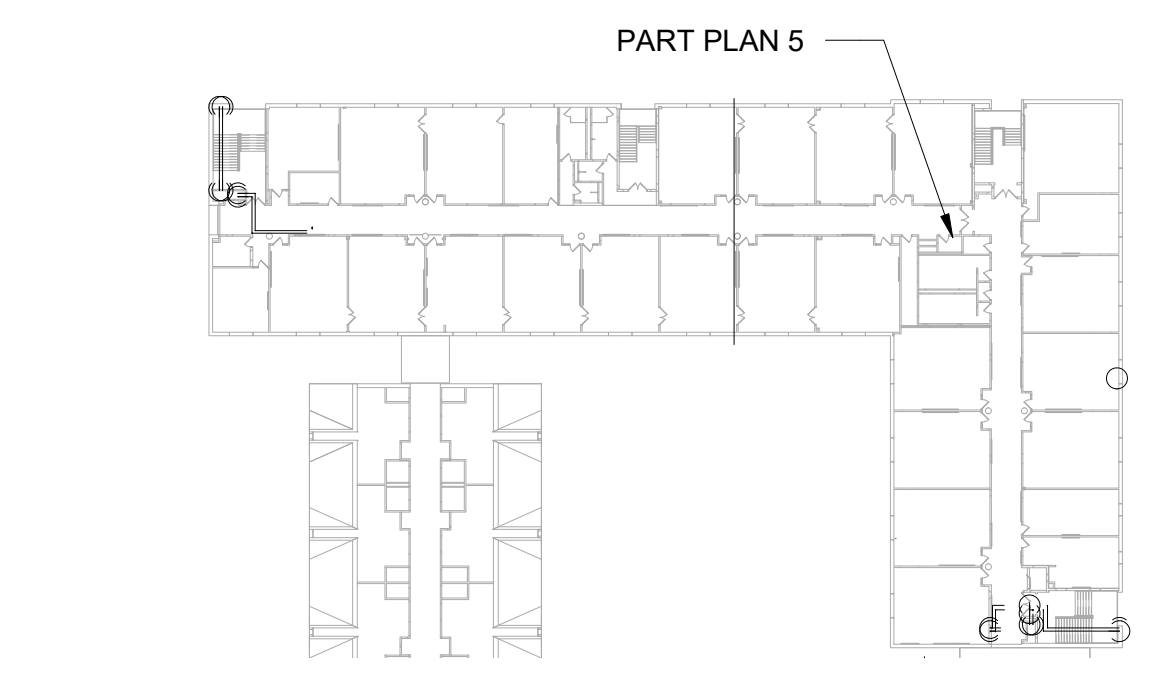


4 ELECTRICAL 1ST FLOOR PART PLAN 2 - MAIN ELECTRIC ROOM
SCALE: 1/2" = 1'-0"

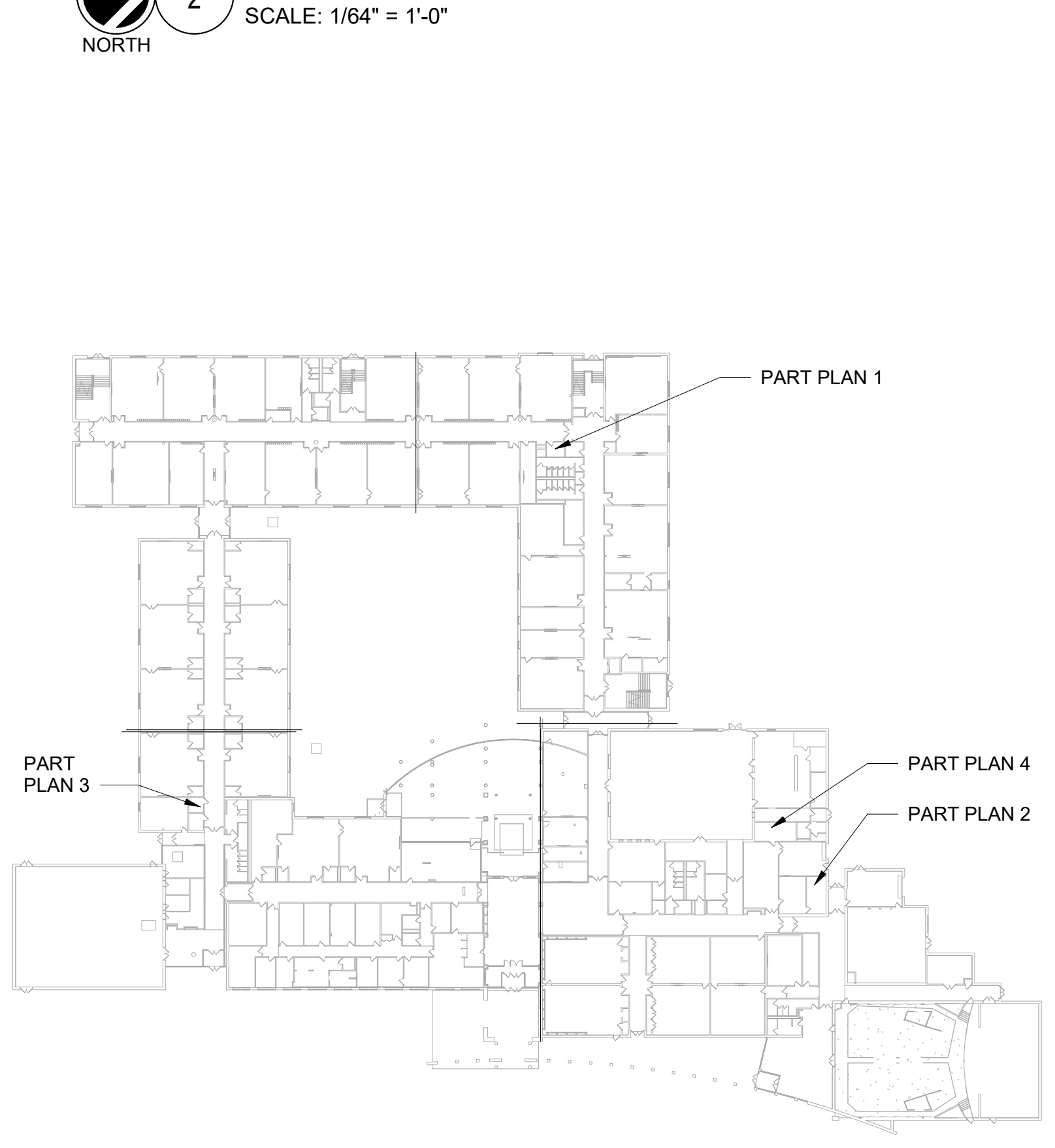


3 ELECTRICAL 1ST FLOOR PART PLAN 1
SCALE: 1/2" = 1'-0"

ELECTRICAL NOTES	
1	UNIT VENTILATORS ARE SERVED FROM EX. ELEC PANELS 'RP-2', 'RP-2A', 'RP-3', 'RP-4' & 'RP-4A'. REFER TO PART PLANS AND KEY PLANS FOR ELEC PNL LOCATIONS.
2	PROVIDE AS PART OF THE BASE CONTRACT (10) 1P-20A CIRCUITS ON THE FIRST FLOOR & (1) 1P-20A CIRCUITS ON THE SECOND FLOOR (150" LENGTH EACH) FOR BMS SYSTEM CONTROL PANELS. COORDINATE EXACT LOCATIONS WITH MECHANICAL.
3	SCOPE OF WORK INVOLVING THE GENERATOR AND ASSOCIATED EQUIPMENT SHALL BE PRICED UNDER AD/ALT C.
4	PROVIDE 2-#12 & 1-#12 GND IN 3/4" C AND 1P-20A CB IN EACH DATA CLOSET FOR AC UNIT CONDENSATE PUMPS. VERIFY CIRCUIT NUMBERS IN FIELD.
5	REPLACE (53) 1P-20 A CB'S SERVING UNIT VENTILATORS UV-1 & (14) 1P-20A CB'S SERVING UNIT VENTILATORS UV-2 WITH NEW 1P-15A CB'S.
6	ALL WORK SHOWN IN PART PLAN 7 SHALL BE PRICED UNDER AD/ALT C.

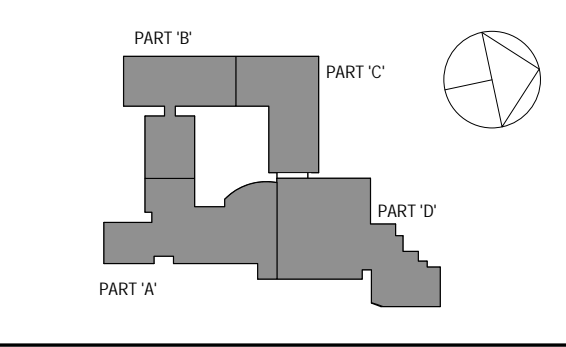


2 ELECTRICAL 2ND FLOOR KEYPLAN
SCALE: 1/64" = 1'-0"



1 ELECTRICAL 1ST FLOOR KEYPLAN
SCALE: 1/64" = 1'-0"

SPN 135-0278RR



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ELECTRICAL 1ST & 2ND FLOOR PART PLANS

Job No.	Date
NKGD0206.00	08/06/2019

Scale	Drawn / Checked
AS NOTED	Author / Checker

Sheet Number
E301

Westover Magnet Elementary School

City of Stamford - Stamford Public Schools

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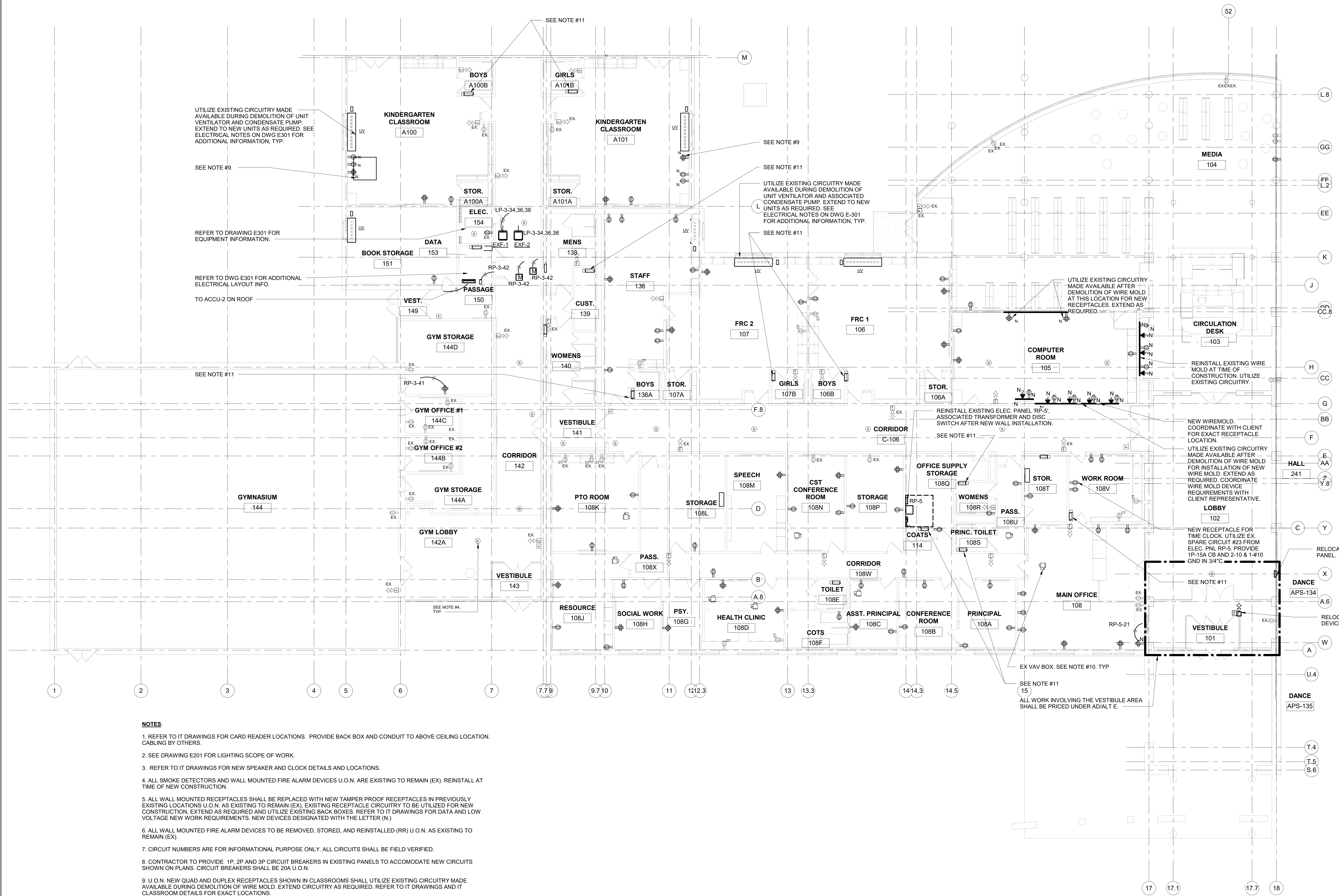
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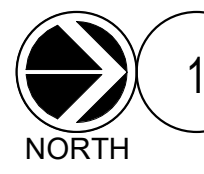
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NOTES:

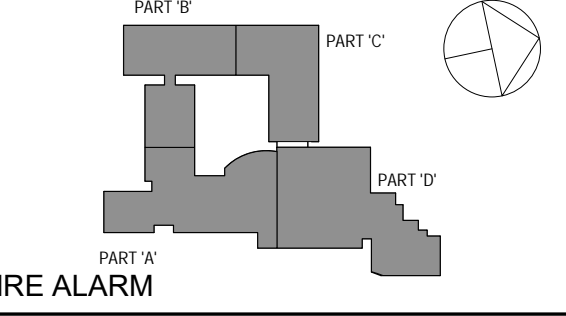
1. REFER TO IT DRAWINGS FOR CARD READER LOCATIONS. PROVIDE BACK BOX AND CONDUIT TO ABOVE CEILING LOCATION. CABLING BY OTHERS.
2. SEE DRAWING E201 FOR LIGHTING SCOPE OF WORK.
3. REFER TO IT DRAWINGS FOR NEW SPEAKER AND CLOCK DETAILS AND LOCATIONS.
4. ALL SMOKE DETECTORS AND WALL MOUNTED FIRE ALARM DEVICES U.O.N. ARE EXISTING TO REMAIN (EX). REINSTALL AT TIME OF NEW CONSTRUCTION.
5. ALL WALL MOUNTED RECEPTACLES SHALL BE REPLACED WITH NEW TAMPER PROOF RECEPTACLES IN PREVIOUSLY EXISTING LOCATIONS U.O.N. AS EXISTING TO REMAIN (EX). EXISTING RECEPTACLE CIRCUITRY TO BE UTILIZED FOR NEW CONSTRUCTION. EXTEND AS REQUIRED AND UTILIZE EXISTING BACK BOXES. REFER TO IT DRAWINGS FOR DATA AND LOW VOLTAGE NEW WORK REQUIREMENTS. NEW DEVICES DESIGNATED WITH THE LETTER (N.)
6. ALL WALL MOUNTED FIRE ALARM DEVICES TO BE REMOVED, STORED, AND REINSTALLED (RR) U.O.N. AS EXISTING TO REMAIN (EX).
7. CIRCUIT NUMBERS ARE FOR INFORMATIONAL PURPOSE ONLY. ALL CIRCUITS SHALL BE FIELD VERIFIED.
8. CONTRACTOR TO PROVIDE 1P, 2P AND 3P CIRCUIT BREAKERS IN EXISTING PANELS TO ACCOMMODATE NEW CIRCUITS SHOWN ON PLANS. CIRCUIT BREAKERS SHALL BE 20A U.O.N.
9. U.O.N. NEW QUAD AND DUPLEX RECEPTACLES SHOWN IN CLASSROOMS SHALL UTILIZE EXISTING CIRCUITRY MADE AVAILABLE DURING DEMOLITION OF WIRE MOLD. EXTEND CIRCUITRY AS REQUIRED. REFER TO IT DRAWINGS AND IT CLASSROOM DETAILS FOR EXACT LOCATIONS.
10. CONTRACTOR TO DISCONNECT EXISTING VAV BOXES AND RECONNECT NEW VAV BOXES.
11. DISCONNECT UNIT HEATER TO ALLOW WORK IN THE ROOM/AREA AND RECONNECT IN SAME LOCATION.
12. PROVIDE 3P-15A CB IN CIRCUIT POSITION INDICATED FOR EXF-1 & EXF-2.



ELECTRICAL 1ST FLOOR PART 'A' NEW WORK PLAN

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

CONTRACT # PN 135-0278RR



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Professional Seal

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2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING
No.	Date	Issue

ELECTRICAL 1ST FLOOR PART 'A' NEW WORK PLAN

Job No.	NKGD0206.00	Date	08/08/2019
Scale	AS NOTED	Drawn / Checked	Author / Checker
Sheet Number	E302		

Westover Magnet Elementary School

City of Stamford - Stamford Public Schools

412 Stillwater Ave, Stamford, CT. 06902

PROJECT # S-6722

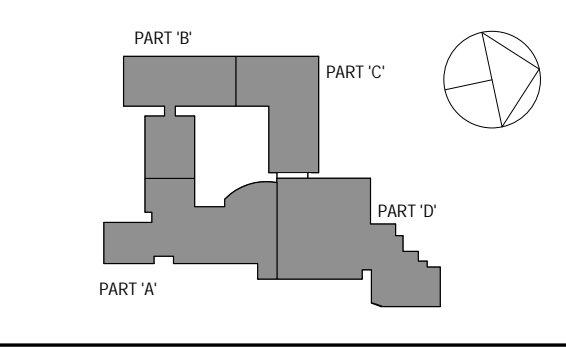


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SPN 135-0278RR



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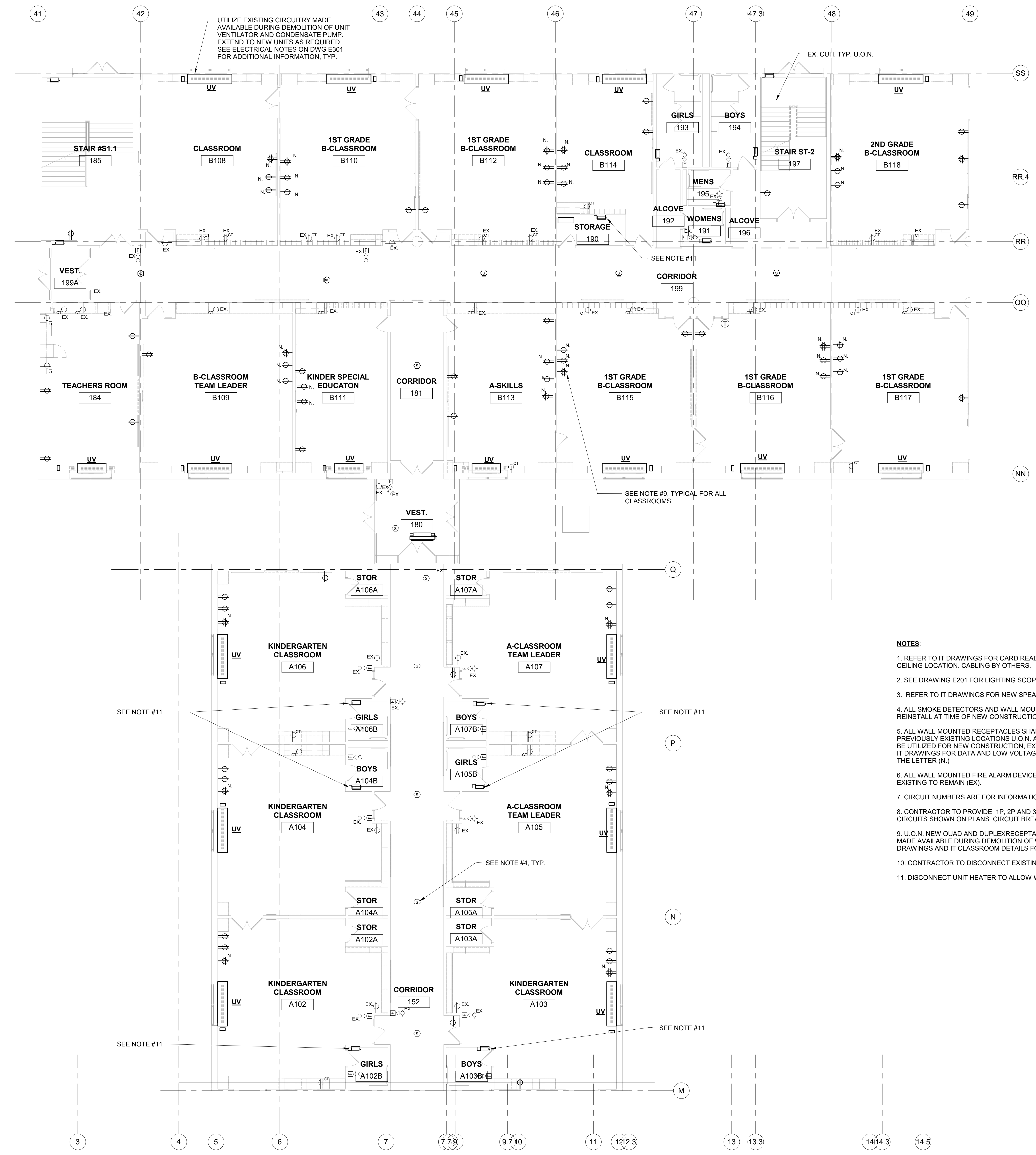
ELECTRICAL 1ST FLOOR PART 'B' NEW WORK PLAN

Job No. NKGD0206.00 Date 08/06/2019

Scale AS NOTED Drawn / Checked Author Checker

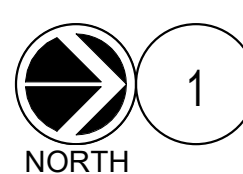
Sheet Number

E303



NOTES:

- REFER TO IT DRAWINGS FOR CARD READER LOCATIONS. PROVIDE BACK BOX AND CONDUIT TO ABOVE CEILING LOCATION. CABLING BY OTHERS.
- SEE DRAWING E201 FOR LIGHTING SCOPE OF WORK.
- REFER TO IT DRAWINGS FOR NEW SPEAKER AND CLOCK DETAILS AND LOCATIONS.
- ALL SMOKE DETECTORS AND WALL MOUNTED FIRE ALARM DEVICES U.O.N. ARE EXISTING TO REMAIN (EX). REINSTALL AT TIME OF NEW CONSTRUCTION.
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- CONTRACTOR TO DISCONNECT EXISTING VAV BOXES AND RECONNECT NEW VAV BOXES.
- DISCONNECT UNIT HEATER TO ALLOW WORK IN THE ROOM/AREA AND RECONNECT IN SAME LOCATION.



ELECTRICAL 1ST FLOOR PART 'B' NEW WORK PLAN

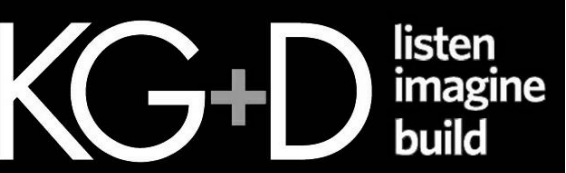
SCALE: 1/8" = 1'-0"

Westover Magnet Elementary School

City of Stamford - Stamford Public Schools

412 Stillwater Ave, Stamford, CT. 06902

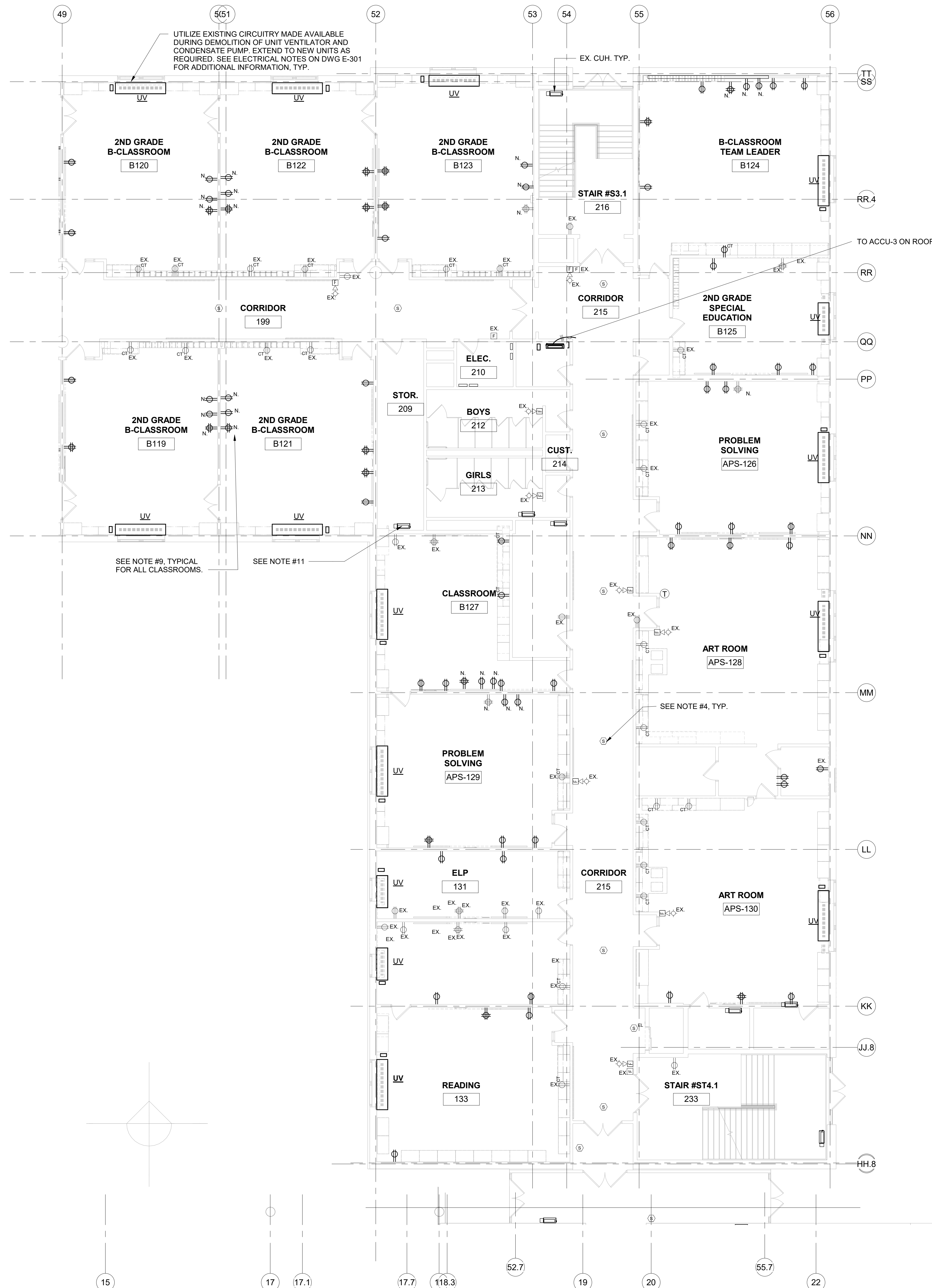
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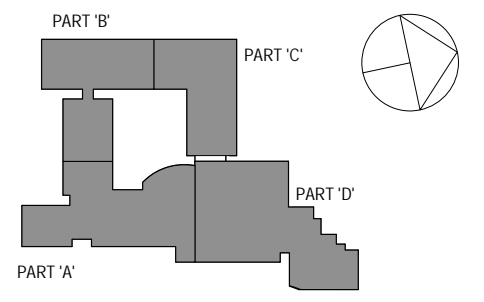
CONSTRUCTION DOCUMENTS



NOTES

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- DISCONNECT UNIT HEATER TO ALLOW WORK IN THE ROOM/AREA AND RECONNECT IN SAME LOCATION.

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No. Date Issue

ELECTRICAL 1ST FLOOR PART 'C' NEW WORK PLAN

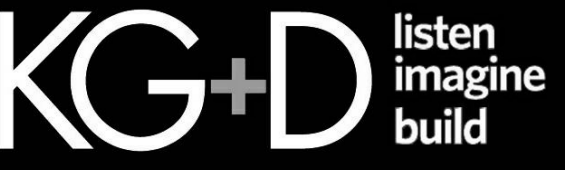
Job No. NKGD0206.00 Date 08/06/2019

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Sheet Number

E304

1 ELECTRICAL 1ST FLOOR PART 'C' NEW WORK PLAN
SCALE: 1/8" = 1'-0"
NORTH



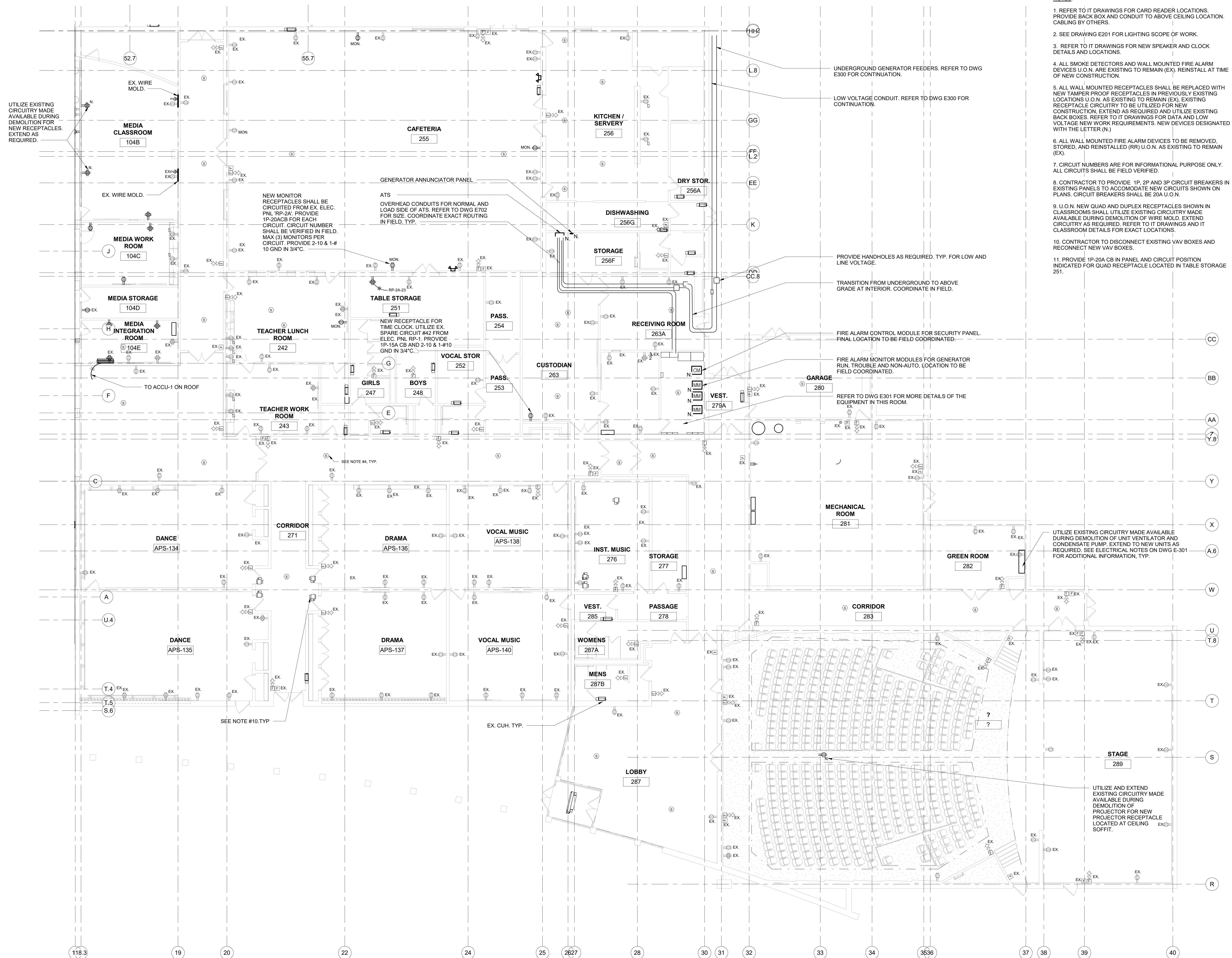
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CONSTRUCTION DOCUMENTS

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2. SEE DRAWING E201 FOR LIGHTING SCOPE OF WORK.
3. REFER TO IT DRAWINGS FOR NEW SPEAKER AND CLOCK DETAILS AND LOCATIONS.
4. ALL SMOKE DETECTORS AND WALL MOUNTED FIRE ALARM DEVICES U.O.N. ARE EXISTING TO REMAIN (EX); REINSTALL AT TIME OF NEW CONSTRUCTION.
5. ALL WALL MOUNTED RECEPTACLES SHALL BE REPLACED WITH NEW TAMPER PROOF RECEPTACLES IN PREVIOUSLY EXISTING LOCATIONS U.O.N. AS EXISTING TO REMAIN (EX); EXISTING RECEPTACLE CIRCUITRY TO BE UTILIZED FOR NEW CONSTRUCTION. EXTEND AS REQUIRED AND UTILIZE EXISTING BACK BOXES. REFER TO IT DRAWINGS FOR DATA AND LOW VOLTAGE NEW WORK REQUIREMENTS. NEW DEVICES DESIGNATED WITH THE LETTER (N).
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10. CONTRACTOR TO DISCONNECT EXISTING VAV BOXES AND RECONNECT NEW VAV BOXES.
11. PROVIDE 1P-20A CB IN PANEL AND CIRCUIT POSITION INDICATED FOR QUAD RECEPTACLE LOCATED IN TABLE STORAGE 251.



UTILIZE EXISTING CIRCUITRY MADE AVAILABLE DURING DEMOLITION FOR NEW RECEPTACLES. EXTEND AS REQUIRED.

NEW MONITOR RECEPTACLES SHALL BE CIRCUITED FROM EX. ELEC. PNL 'RP-2A'. PROVIDE 1P-20ACB FOR EACH CIRCUIT. CIRCUIT NUMBER SHALL BE VERIFIED IN FIELD. MAX (3) MONITORS PER CIRCUIT. PROVIDE 2-10 & 1-#10 GND IN 3/4" C.

ATS OVERHEAD CONDUITS FOR NORMAL AND LOAD SIDE OF ATS. REFER TO DWG E702 FOR SIZE. COORDINATE EXACT ROUTING IN FIELD. TYP.

NEW RECEPTACLE FOR TIME CLOCK. UTILIZE EX. SPARE CIRCUIT #42 FROM ELEC. PNL RP-1. PROVIDE 1P-15A CB AND 2-10 & 1-#10 GND IN 3/4" C.

UNDERGROUND GENERATOR FEEDERS. REFER TO DWG E300 FOR CONTINUATION.

LOW VOLTAGE CONDUIT. REFER TO DWG E300 FOR CONTINUATION.

PROVIDE HANDHOLES AS REQUIRED. TYP. FOR LOW AND LINE VOLTAGE.

TRANSITION FROM UNDERGROUND TO ABOVE GRADE AT INTERIOR. COORDINATE IN FIELD.

FIRE ALARM CONTROL MODULE FOR SECURITY PANEL. FINAL LOCATION TO BE FIELD COORDINATED.

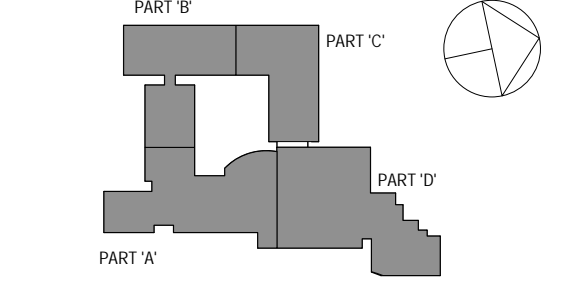
FIRE ALARM MONITOR MODULES FOR GENERATOR RUN, TROUBLE AND NON-AUTO. LOCATION TO BE FIELD COORDINATED.

REFER TO DWG E301 FOR MORE DETAILS OF THE EQUIPMENT IN THIS ROOM.

UTILIZE EXISTING CIRCUITRY MADE AVAILABLE DURING DEMOLITION OF UNIT VENTILATOR AND CONDENSATE PUMP. EXTEND TO NEW UNITS AS REQUIRED. SEE ELECTRICAL NOTES ON DWG E-301 FOR ADDITIONAL INFORMATION. TYP.

UTILIZE AND EXTEND EXISTING CIRCUITRY MADE AVAILABLE DURING DEMOLITION OF PROJECTOR FOR NEW PROJECTOR RECEPTACLE LOCATED AT CEILING SOFFIT.

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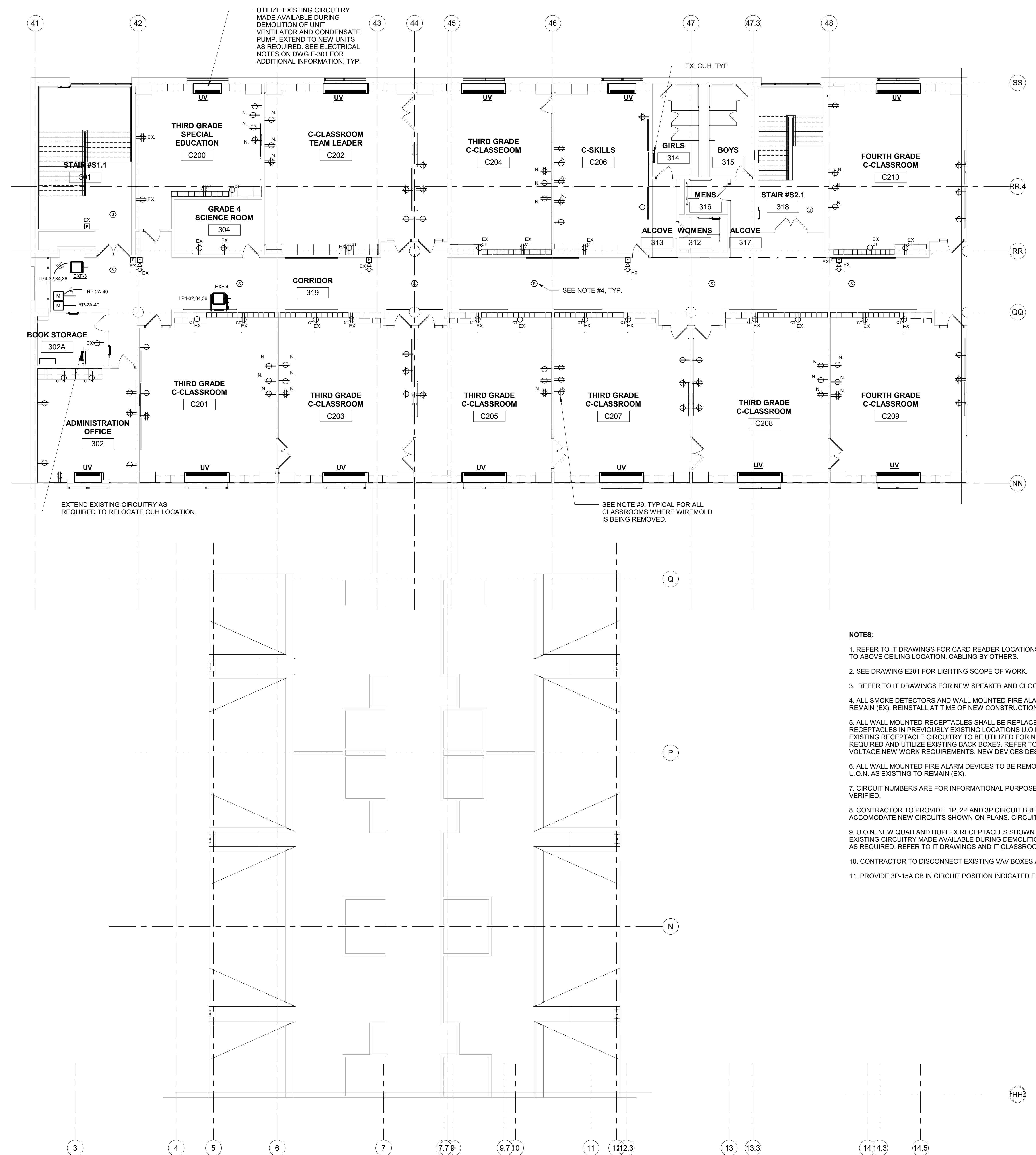
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ELECTRICAL 1ST FLOOR PART 'D' NEW WORK PLAN

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author / Checker

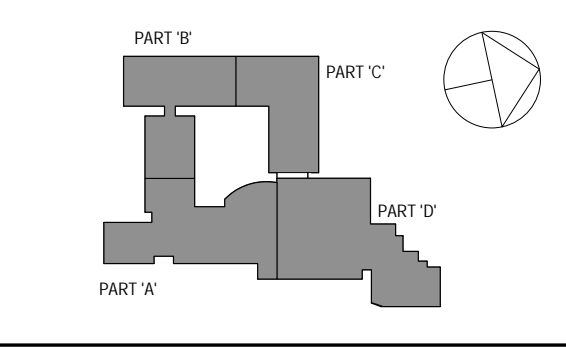
Sheet Number

E305



- NOTES:**
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 - CONTRACTOR TO DISCONNECT EXISTING VAV BOXES AND RECONNECT NEW VAV BOXES.
 - PROVIDE 3P-15A CB IN CIRCUIT POSITION INDICATED FOR EXF-1 & EXF-2.

SPN 135-0278RR



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ELECTRICAL 2ND FLOOR PART 'B' NEW WORK PLAN

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author / Checker

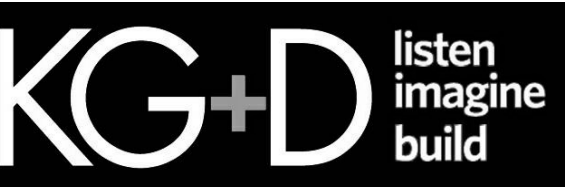
Sheet Number
E306

ELECTRICAL 2ND FLOOR PART 'B' NEW WORK PLAN
SCALE: 1/8" = 1'-0"

Westover Magnet Elementary School

City of Stamford - Stamford Public Schools
412 Stillwater Ave, Stamford, CT. 06902

PROJECT # S-6722

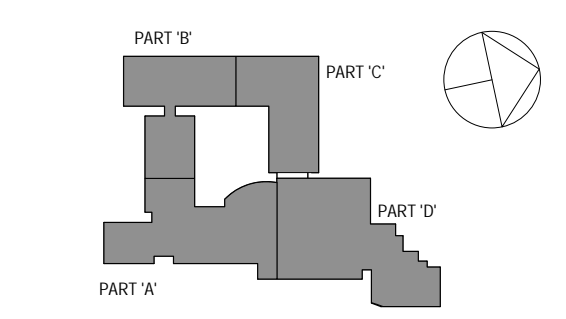


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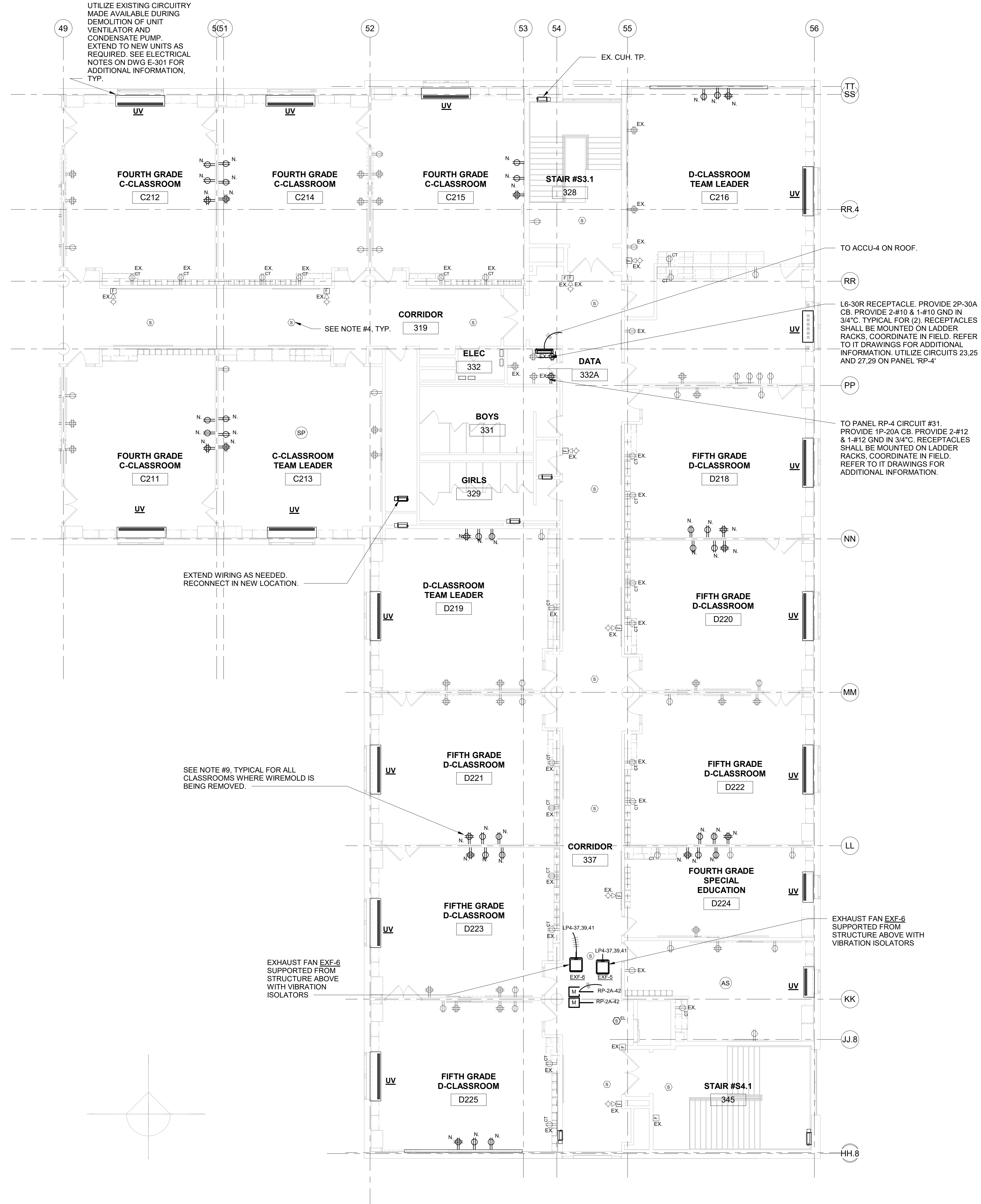
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2	6/5/2019	CLIENT REVIEW SET
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Sheet Title

ELECTRICAL 2ND FLOOR PART 'C' NEW WORK PLAN

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author Checker

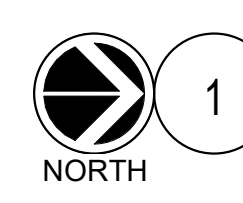
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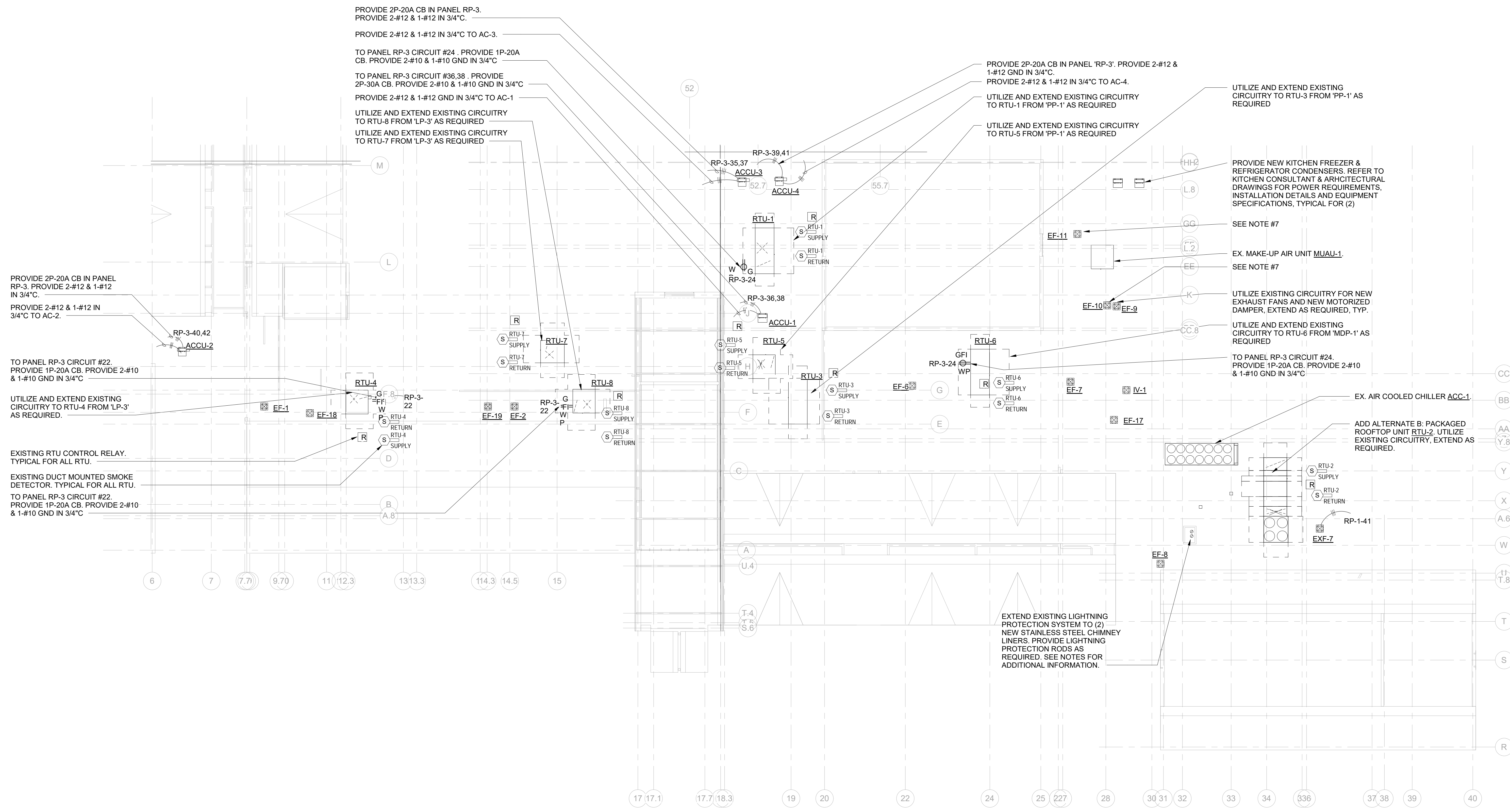


NOTES

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- CONTRACTOR TO DISCONNECT EXISTING VAV BOXES AND RECONNECT NEW VAV BOXES.
- PROVIDE 3P-15A CB IN CIRCUIT POSITION INDICATED FOR EXF-1 & EXF-2.

ELECTRICAL 2ND FLOOR PART 'C' NEW WORK PLAN
SCALE: 1/8" = 1'-0"

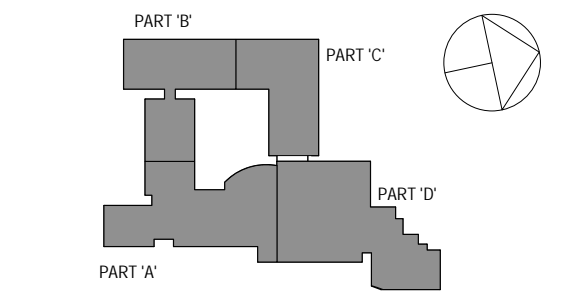




ELECTRICAL ROOF PLAN
SCALE: 1/16" = 1'-0"
NORTH

- NOTES:**
1. ALL ROOFTOP ELECTRICAL AND MECHANICAL DEVICES AND EQUIPMENT ARE NEW U.O.N. EXISTING TO REMAIN (EX.)
 2. DISCONNECT SWITCHES FOR RTUS FURNISHED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR. TYP. FOR (7)
 3. DISCONNECT SWITCHES NOT SHOWN ON PLANS, TYP FOR ALL MECHANICAL EQUIPMENT.
 4. REINSTALL ALL DUCT SMOKE DETECTORS AND ASSOCIATED CONTROL RELAYS AT TIME OF NEW CONSTRUCTION. COORDINATE WITH MECHANICAL. ALL DUCT SMOKE DETECTORS ARE EXISTING. U.O.N.
 5. UTILIZE EXISTING CIRCUITRY AND CONDUIT ASSOCIATED WITH RTU'S. SEE DWG E301 FOR CB INFORMATION.
 6. PRIOR TO REMOVING THE RTUS, THE ELECTRICAL CONTRACTOR SHALL HAVE THE EXISTING LIGHTNING PROTECTION SYSTEM INSPECTED BY A CERTIFIED CONTRACTOR. UPON THE INSTALLATION OF THE NEW UNITS, THE LIGHTNING PROTECTION SYSTEM SHALL BE REINSTALLED AND UNDERWRITER LABORATORIES(UL) INC. MASTER LABEL SHALL BE FURNISHED AS EVIDENCE THAT THE INSTALLATION HAS MET UL 96A REQUIREMENTS, REFER TO ARCHITECTURAL DRAWINGS ROOF PLANS FOR ADDITIONAL INFORMATION.
 7. REINSTALL EXISTING EXHAUST FANS EF-10 & EF-11. EXTEND EXISTING CIRCUITRY AS REQUIRED.

SPN 135-0278RR



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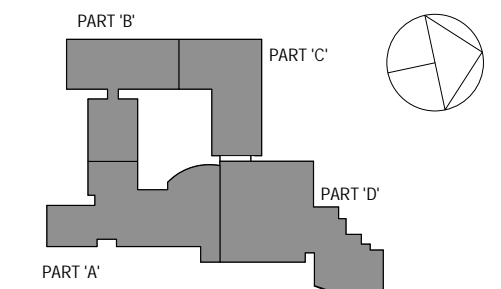
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No.	Date	Issue
3	8/6/2019	ISSUED FOR BID
2	6/5/2019	CLIENT REVIEW SET
1	5/15/2019	ISSUED FOR PRICING

ELECTRICAL ROOF PLAN NEW WORK

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	Author Checker

Sheet Number
E308



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1	5/15/2019	ISSUED FOR PRICING

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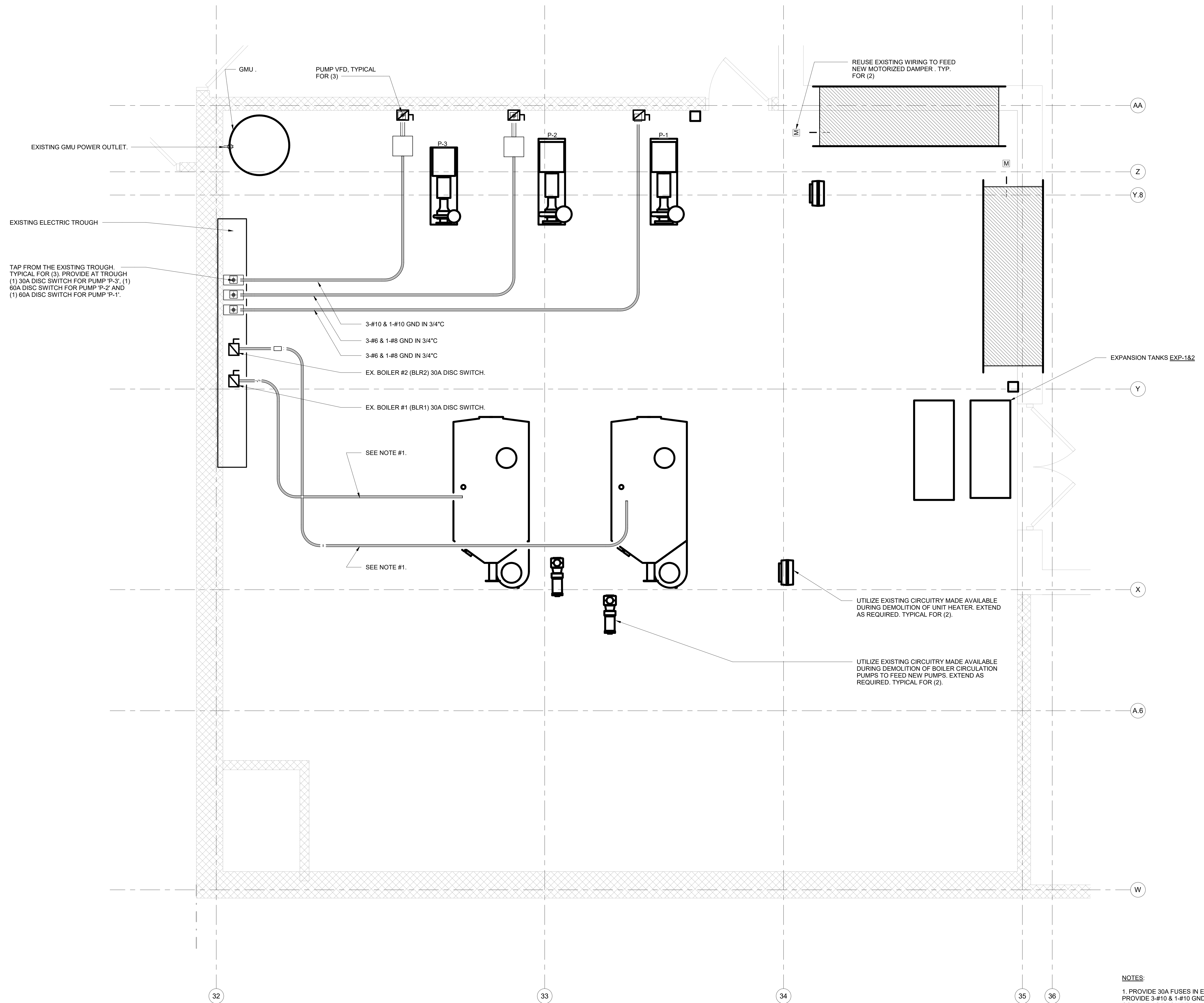
ELECTRICAL BOILER ROOM NEW
WORK PLAN - ALTERNATE A

Job No. NKGD0206.00 Date 08/06/2019

Scale AS NOTED Drawn / Checked Author Checker

Sheet Number

E309



1 ELECTRICAL BOILER ROOM NEW WORK PLAN - ALTERNATE A
SCALE: 1/2" = 1'-0"
NORTH

- NOTES:**
1. PROVIDE 30A FUSES IN EXISTING 30A DISC SWITCH FOR BOILER 'BLR1' AND 'BLR2'. PROVIDE 3-#10 & 1-#10 GND IN 3/4" FOR EACH UNIT. UTILIZE AND EXTEND EXISTING CONDUIT AS REQUIRED.
 2. REFER TO THE MECHANICAL DRAWING FOR EXACT LOCATION OF EQUIPMENT.
 3. ALL CIRCUITRY AND CONDUIT ASSOCIATED WITH PUMPS 'P-1', 'P-2' AND 'P-3' SHALL BE FED FROM ELECTRICAL TROUGH.
 4. ALL SCOPE OF WORK SHOWN ON THIS DRAWING SHALL BE PRICED UNDER AD/ALT A.

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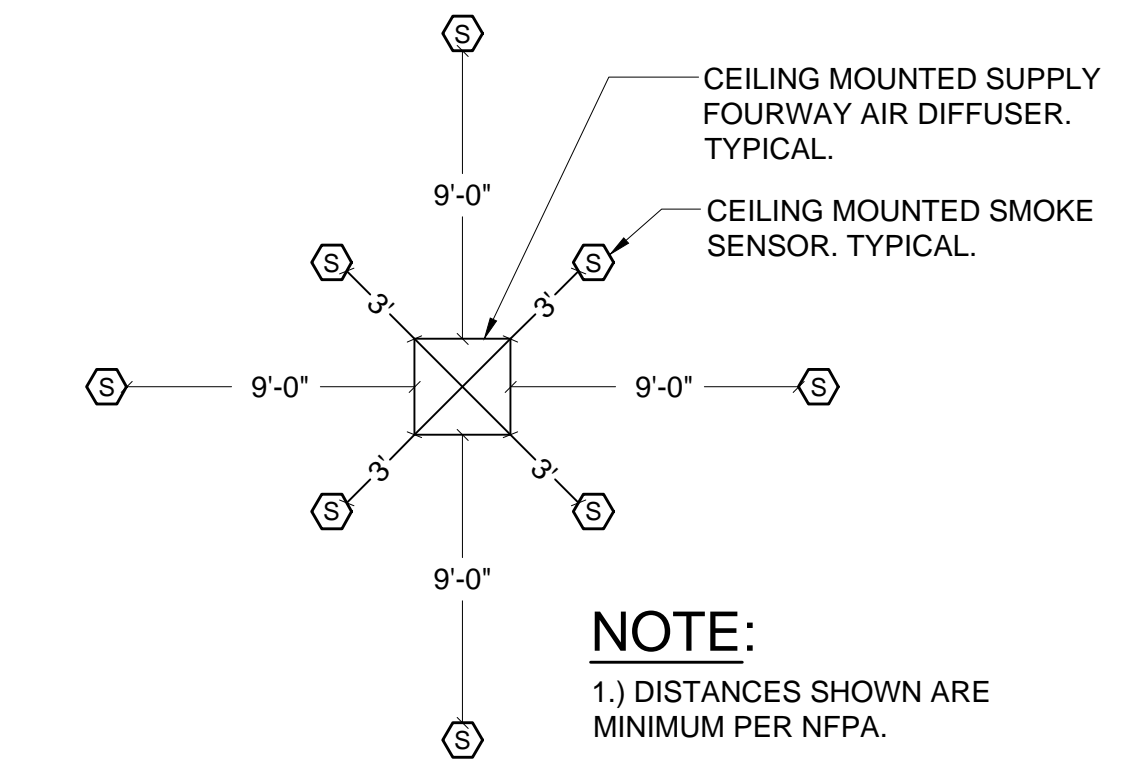
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ELECTRICAL DETAILS

Job No.	NKGD0206.00	Date	08/06/2019
Scale	AS NOTED	Drawn /	Checked

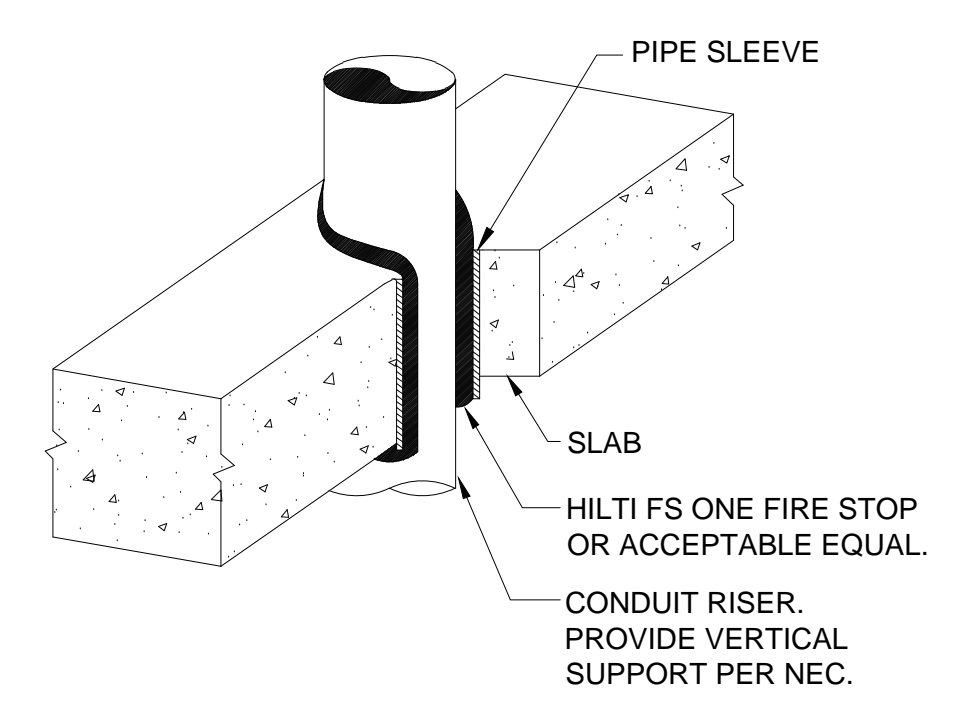
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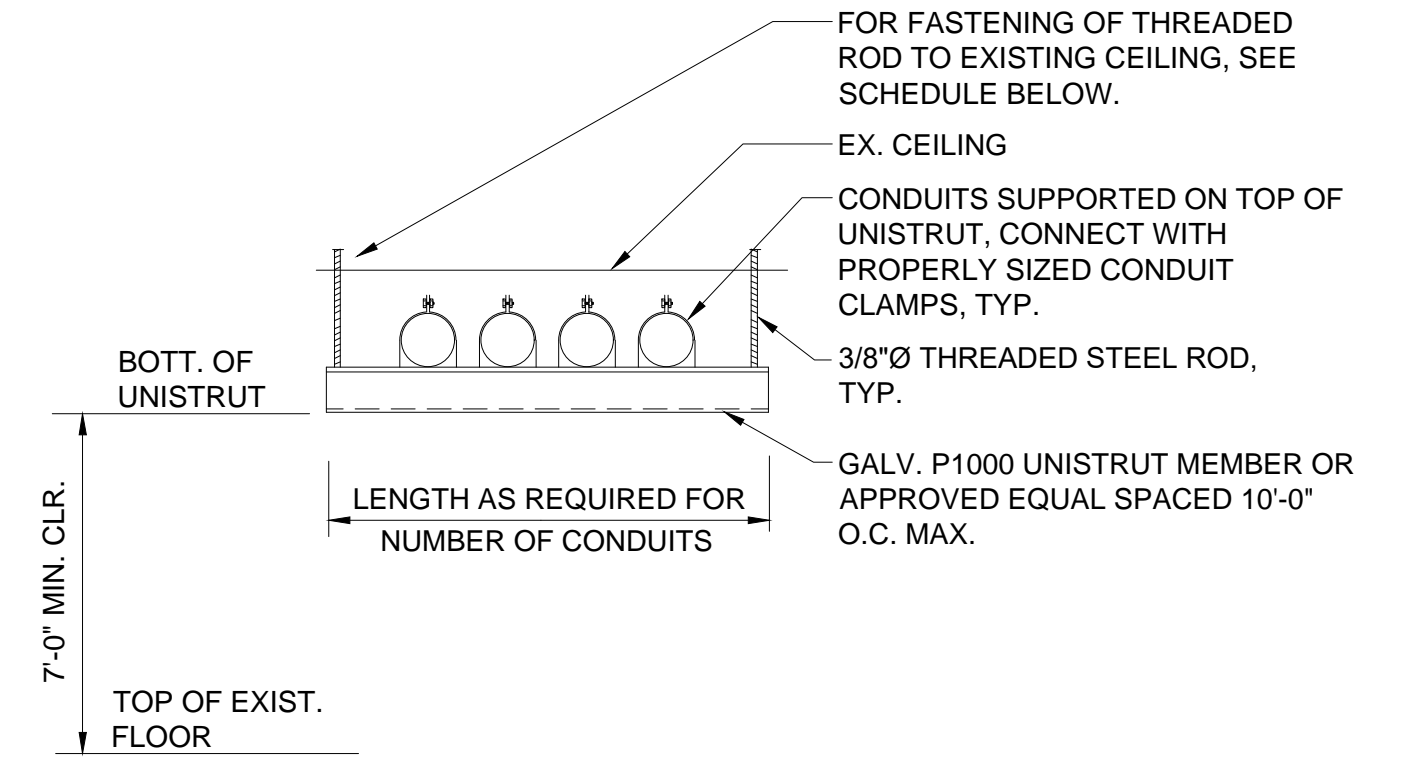


NOTE:
 1.) DISTANCES SHOWN ARE MINIMUM PER NFPA.

3 CEILING MOUNTED SMOKE DETECTOR LOCATION WITH RESPECT TO AIR DIFFUSER
 SCALE: NONE

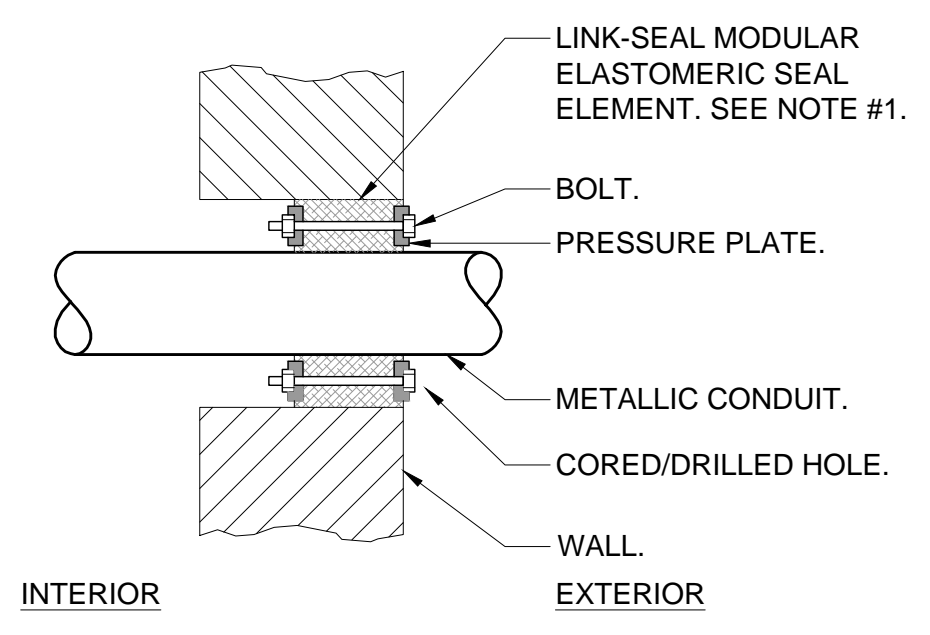


6 VERTICAL CONDUIT PENETRATION DETAIL
 SCALE: NONE



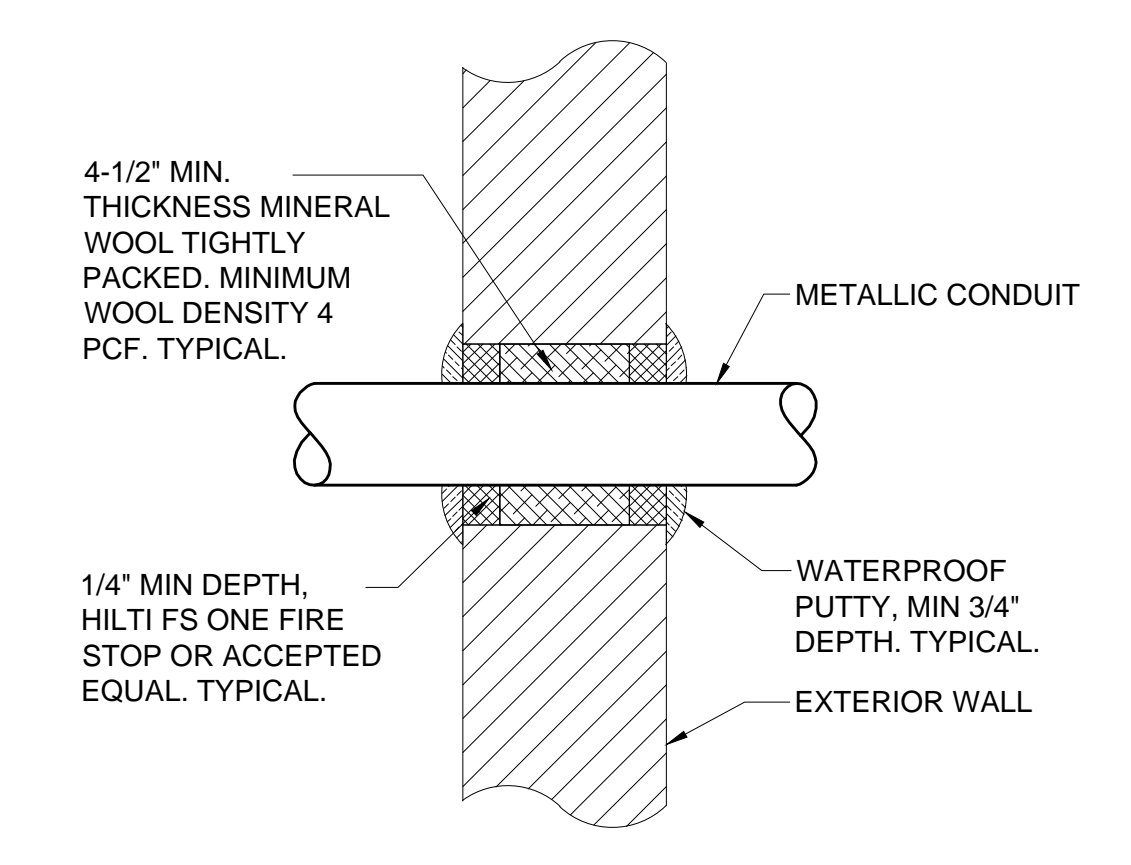
CEILING CONSTRUCTION	ANCHOR TYPE	EMBEDMENT
NORMAL WT. CONC	HILTI HDI DROP-IN ANCHOR	1" MIN.
CINDER CONCRETE	HILTI KWIK BOLT II	3" MIN.
HOLLOW CONSTRUCTION	TOGGLE BOLTS	NA

9 TRAPEZE SUPPORT DETAIL
 SCALE: NONE

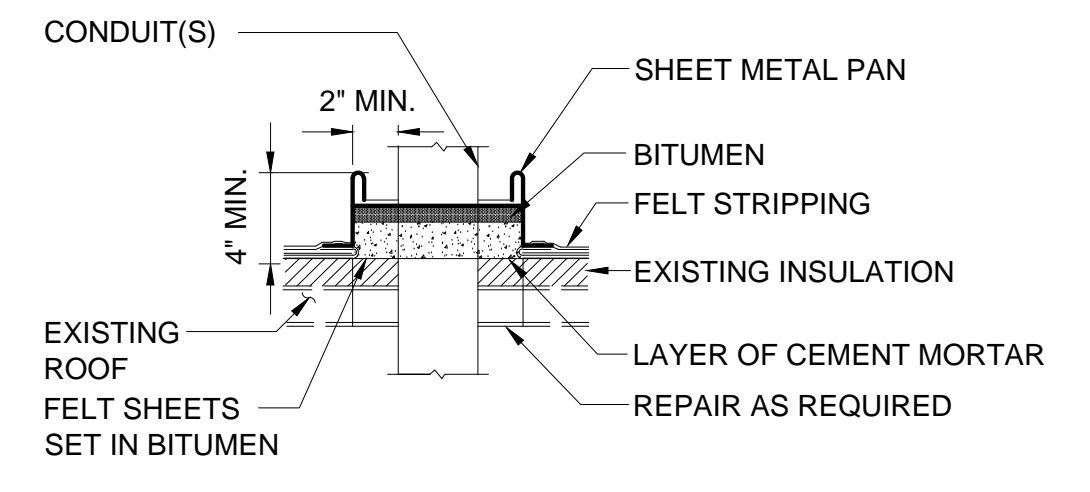


NOTES:
 1.) SEAL ASSEMBLY BASED ON THUNDERLINE MODEL "C" LINK-SEAL MODULAR SEAL, WITH EPDM SEAL ELEMENT, COMPOSITE PRESSURE PLATES, STEEL WITH 2-PART ZINC DICHROMATE & ORGANIC COATING NUTS AND BOLTS AND WITH A OPERATING TEMPERATURE RANGE OF -40°F TO +250°F.
 2.) PROVIDE AND INSTALL TWO SEALS WHEN PENETRATED WALL THICKNESS IS GREATER THAN 12".
 3.) PROVIDE SCHEDULE 80 WALL SLEEVE FOR NEW WALL CONSTRUCTION PER MANUFACTURER'S REQUIREMENTS.

12 TYPICAL BELOW GRADE CONDUIT EXTERIOR MASONRY WALL PENETRATION DETAIL
 SCALE: NONE

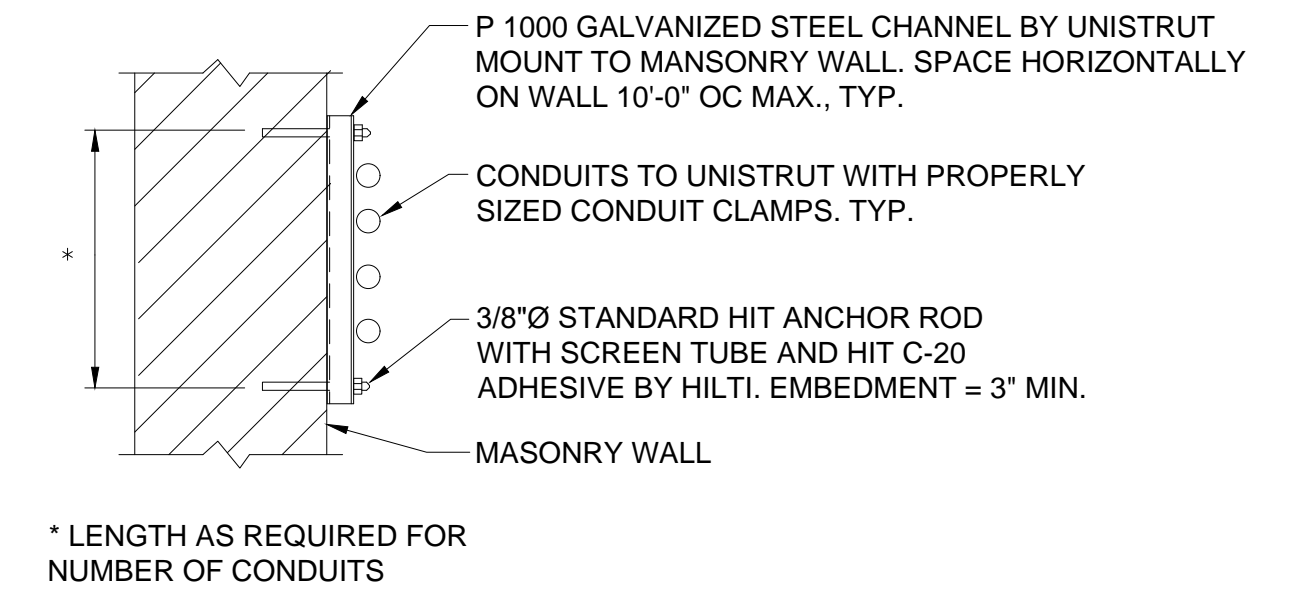


2 TYPICAL ABOVE GRADE CONDUIT EXTERIOR MASONRY WALL PENETRATION DETAIL
 SCALE: NONE

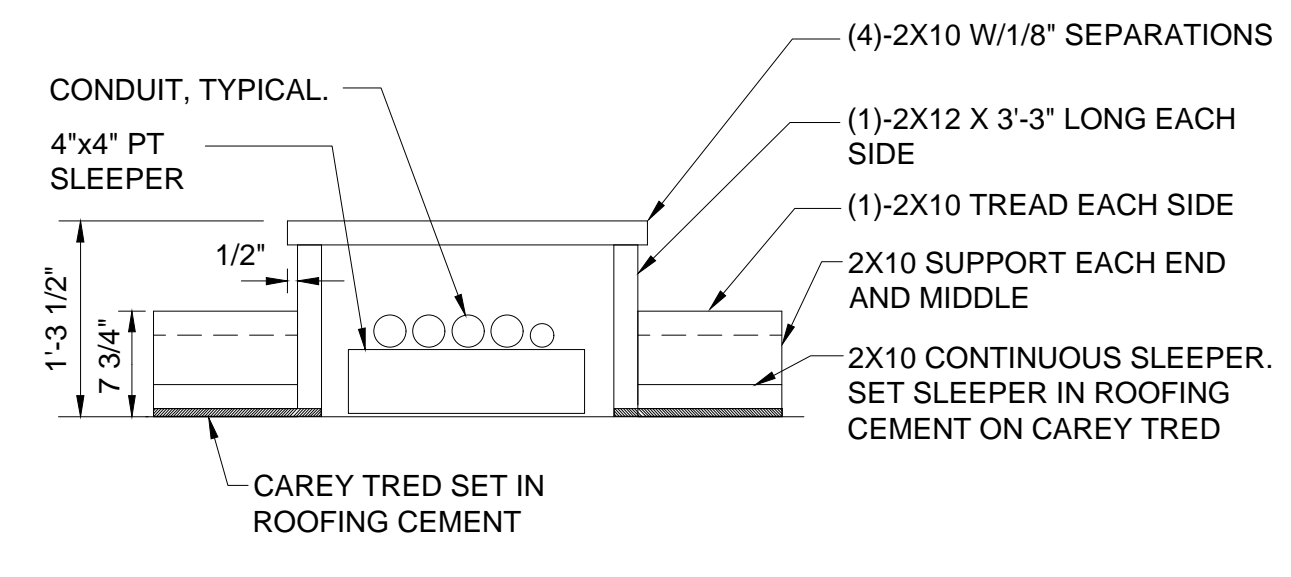


NOTE:
 1.) PRIOR TO UTILIZING ANY ROOFING MATERIALS, VERIFY WITH BUILDING REPRESENTATIVE FOR COMPATIBILITY WITH ROOFING SYSTEM.

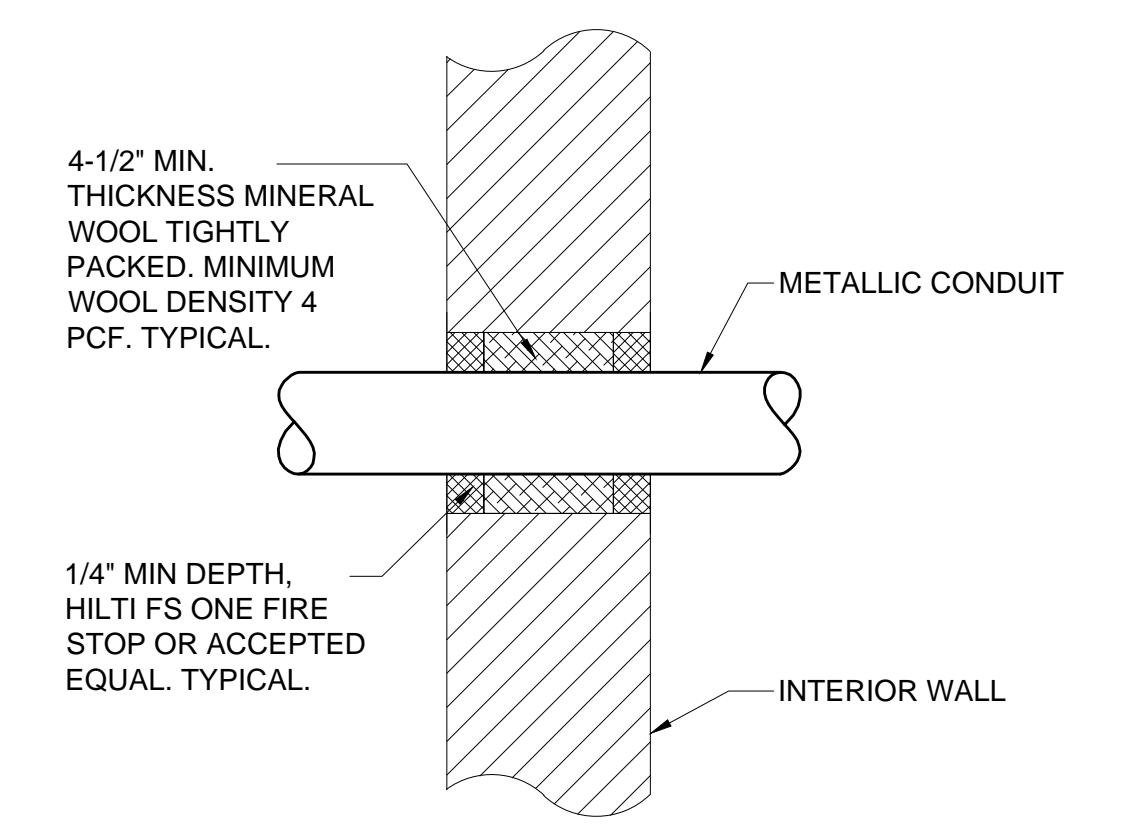
5 TYPICAL PITCH POCKET AROUND ROOF PENETRATIONS
 SCALE: NONE



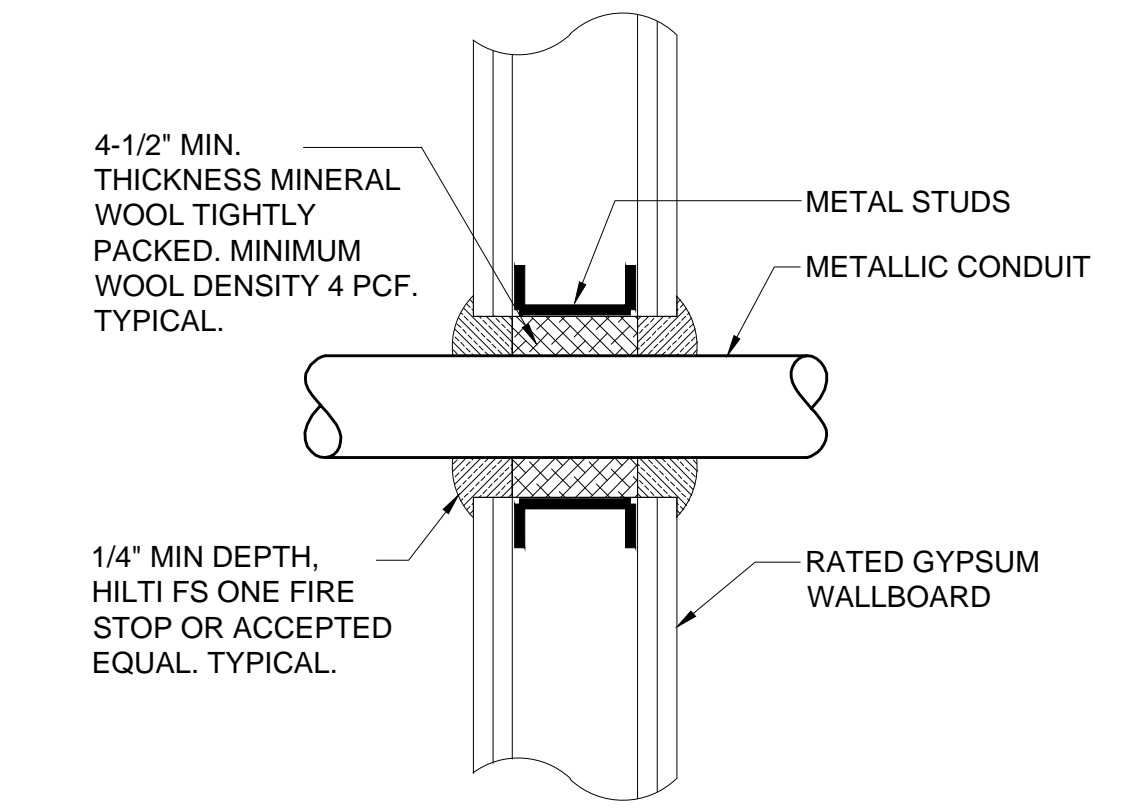
8 TYPICAL CONDUIT SUPPORT ON MASONRY
 SCALE: 1" = 1'-0"



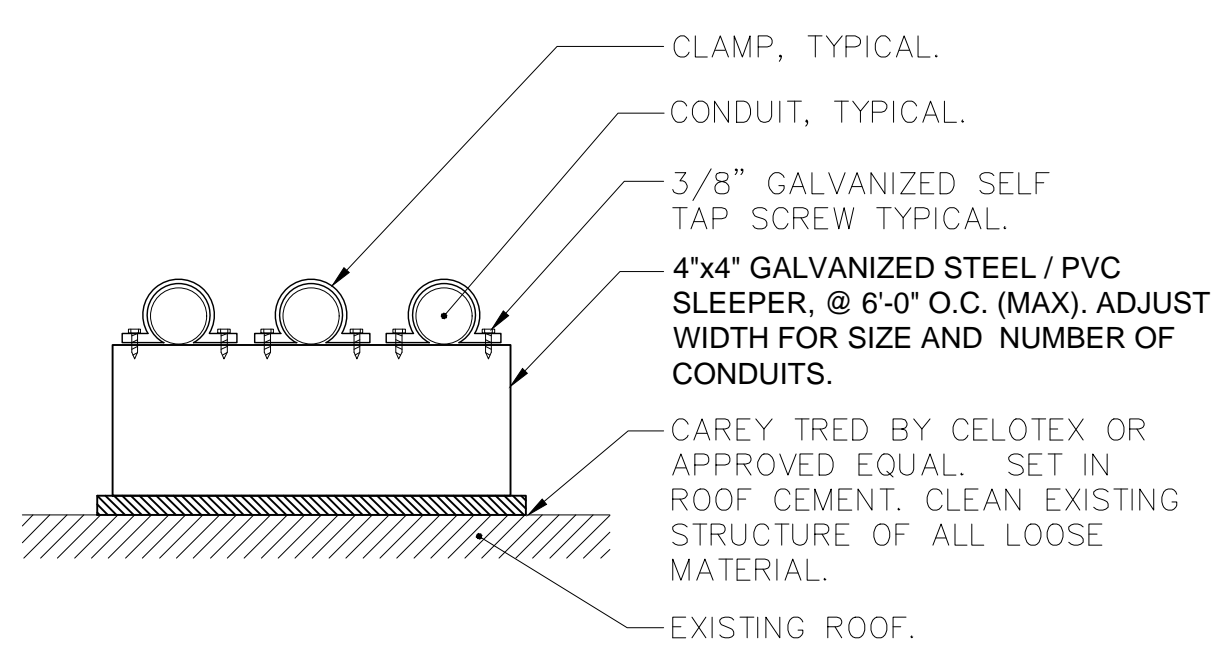
4 STEP OVER CONDUITS ON ROOF
 SCALE: 1" = 1'-0"



7 TYPICAL CONDUIT INTERIOR MASONRY WALL PENETRATION DETAIL
 SCALE: NONE

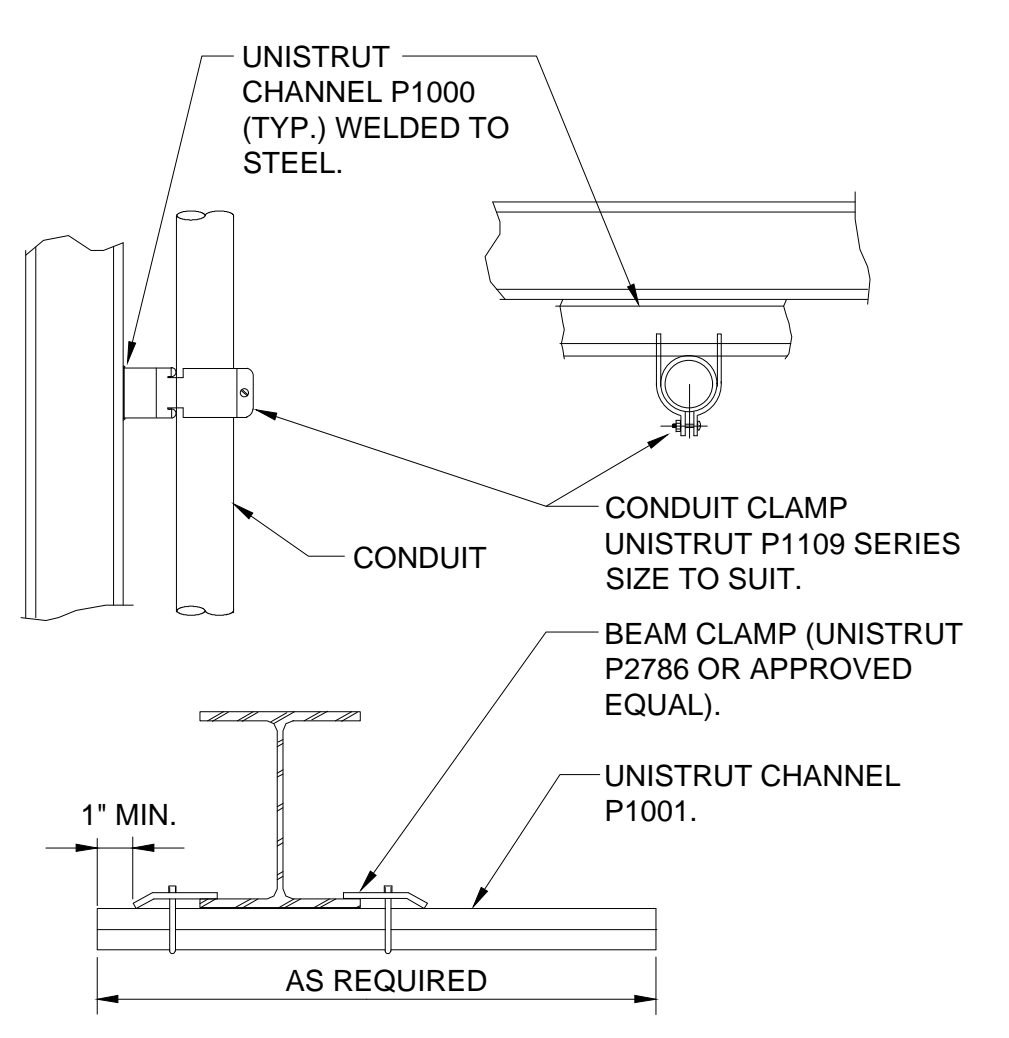


1 TYPICAL CONDUIT GYPSUM WALL PENETRATION DETAIL
 SCALE: NONE



NOTES:
 1.) PRIOR TO UTILIZING ANY ROOFING MATERIALS, VERIFY WITH BUILDING REPRESENTATIVE FOR COMPATIBILITY WITH ROOFING SYSTEM.
 2.) TYPICAL FOR ANY NUMBER OF CONDUITS.

11 TYPICAL CONDUIT ON ROOF SUPPORT DETAIL
 SCALE: NONE



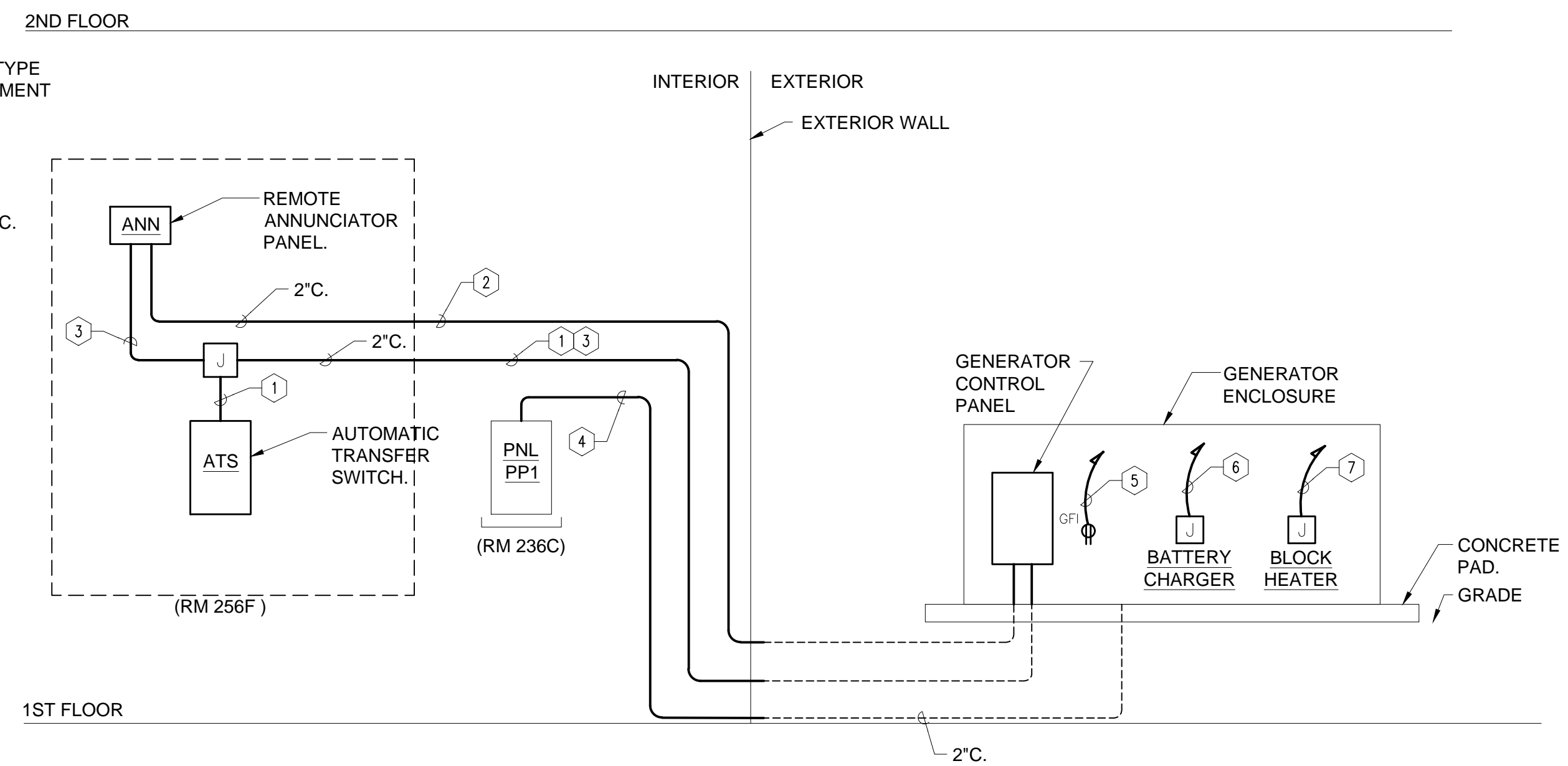
10 CONDUIT SUPPORTED FROM STRUCTURAL STEEL
 SCALE: NONE

NOTES:

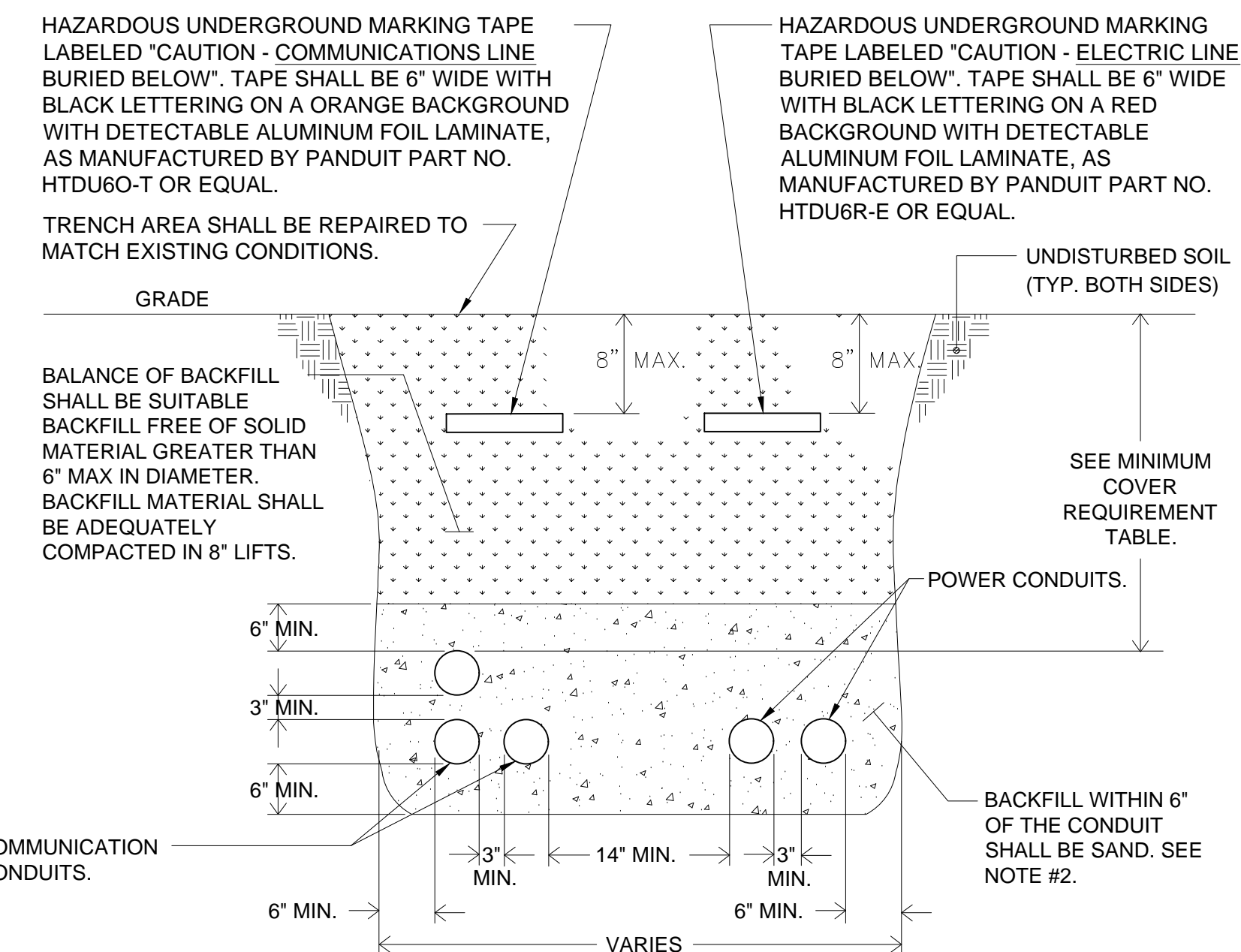
- 1.) WIRING ON THIS DETAIL SHOWN FOR INFORMATIONAL PURPOSES ONLY. COORDINATE EXACT SIZE, QUANTITY AND TYPE OF WIRING WITH MANUFACTURER'S SUGGESTION FOR EQUIPMENT PURCHASED.
- 2.) CONDUITS SHALL BE 2" U.O.N.
- 3.) SEE ONE-LINE DIAGRAM DETAIL #4 FOR POWER OUTPUT FEEDERS INFORMATION.
- 4.) SCOPE OF WORK INVOLVING THE GENERATOR AND ALL ASSOCIATED EQUIPMENT SHALL BE PRICED UNDER ADD/ALT C.

LEGEND:

- ① 4-#10 AWG. START CIRCUIT FROM AUTOMATIC TRANSFER SWITCH TO GENERATOR CONTROL PANEL.
- ② TWISTED SHIELDED PAIR - BELDEN #9941. COMMUNICATIONS CIRCUIT FROM GENERATOR CONTROL PANEL TO REMOTE ANNUNCIATOR.
- ③ 2-#10 AWG. POWER FROM GENERATOR SET BATTERY TO REMOTE ANNUNCIATOR.
- ④ POWER CONDUIT FOR BRANCH CIRCUITS TO GENERATOR SET. SEE CIRCUIT INFORMATION FOR ITEMS 5, 6 & 7 BELOW.
- ⑤ PP1-7, 2-#10 & 1-#10 GND.
- ⑥ PP1-9, 2-#10 & 1-#10 GND.
- ⑦ PP1-11, 2-#10 & 1-#10 GND.



3 GENERATOR CONTROL AND BRANCH CIRCUIT WIRING DIAGRAM
SCALE: NONE



2 TRENCHING DETAIL FOR CONDUIT
SCALE: NONE

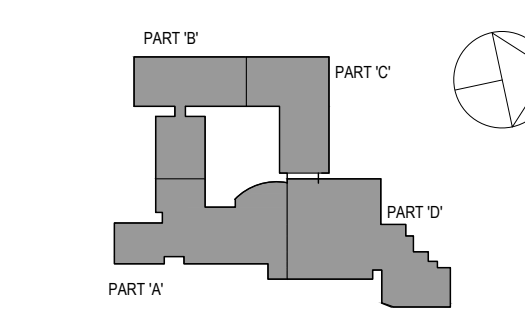
MINIMUM COVER REQUIREMENT TABLE

LOCATION	NONMETALLIC RACEWAYS LISTED FOR DIRECT BURIAL WITHOUT CONCRETE ENCASUREMENT OR OTHER APPROVED RACEWAYS
ALL LOCATION NOT SPECIFIED BELOW.	18"
IN TRENCH BELOW 2-IN. THICK CONCRETE OR EQUIVALENT.	12"
UNDER MINIMUM OF 4-IN. THICK CONCRETE EXTERIOR SLAB WITH NO VEHICULAR TRAFFIC AND THE SLAB EXTENDING NOT LESS THAN 6 IN. BEYOND THE UNDERGROUND INSTALLATION.	4" SEE NOTE #2.
UNDER STREETS, HIGHWAYS, ROADS, ALLEYS, DRIVEWAYS, AND PARKING LOTS.	24"

NOTES:

- 1.) DETAIL SHOWN FOR INFORMATION PURPOSES. SAME CONCEPT SHALL ALSO APPLY FOR SINGLE CONDUITS.
- 2.) SAND MAY BE OMITTED FOR INSTALLATIONS WHERE COVER REQUIREMENTS ARE 6" OR LESS.

SPN 135-0278RR



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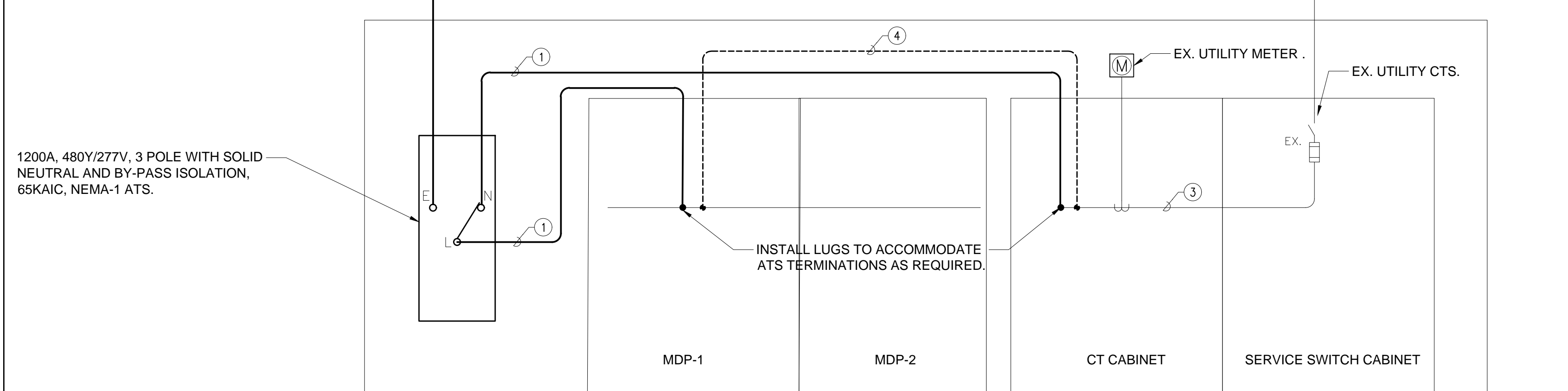
Job No.	NKGD0206.00	Date	08/6/2019
Scale	AS NOTED	Drawn / Checked	

Sheet Number
E702

WIRING/CONDUIT LEGEND:

- ① 3 SETS OF 4-#600MCM & 1-#3/0 GND IN (3) 3-1/2" C.
- ② 2 SETS OF 4-#350MCM & 1-#1 GND IN (2) 3" C.
- ③ EX. FEEDERS
- ④ DEM. FEEDERS

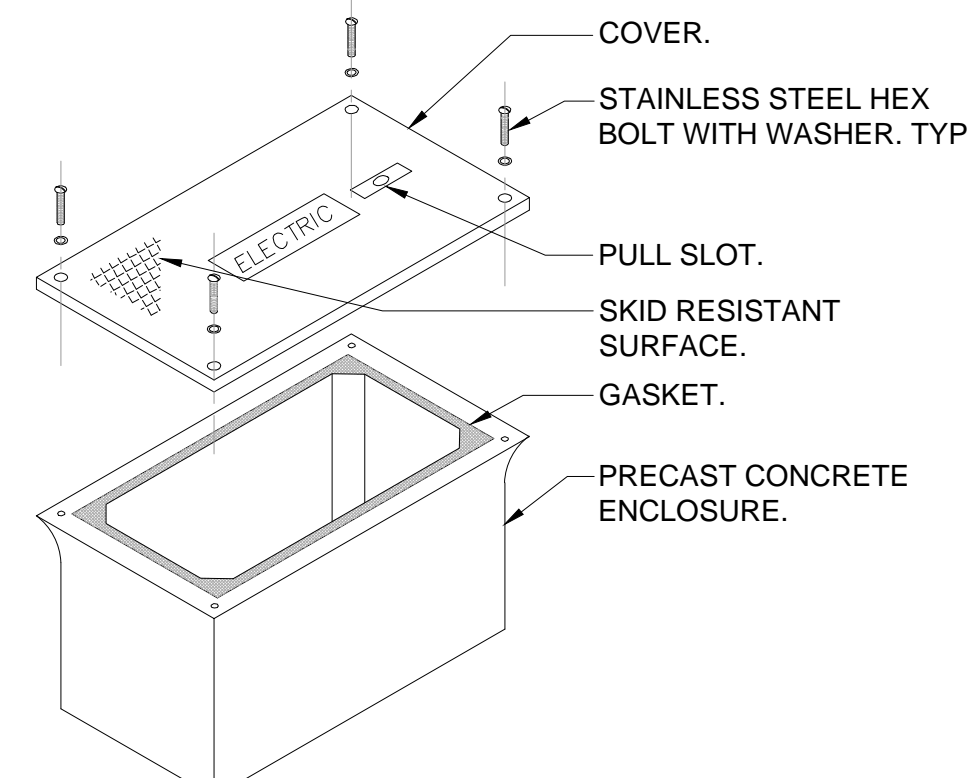
350KW DIESEL STANDBY GENERATOR WITH 480Y/277V, 3Ø, 4W OUTPUT.
OUTPUT CIRCUIT BREAKER



1 ELECTRICAL ONE-LINE DIAGRAM
SCALE: NONE

NOTES:

- 1.) DEM. EXISTING FEEDER FROM CT CABINET TO MDP-1/2 AND PROVIDE NEW FEEDERS TO FROM ATS AS INDICATED.
- 2.) EXISTING CHILLER SHALL BE SHUNTED PRIOR TO GENERATOR POWER TRANSFER VIA BMS. COORDINATE REQUIRED CONTROL COMPONENT WITH MECHANICAL.
- 3.) SCOPE OF WORK INVOLVING THE GENERATOR AND ALL ASSOCIATED EQUIPMENT SHALL BE PRICED UNDER ADD/ALT C.



NOTES:

- 1.) HAND HOLE SHALL BE 36" L x 24" W x 24" H WITH OPEN BOTTOM AND RATED FOR VEHICULAR TRAFFIC AS MANUFACTURED BY QUAZITE. EQUAL BOX SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- 2.) PROVIDE 6" OF GRAVEL BELOW BOX.
- 3.) COVER SHALL BE IMPRINTED WITH THE APPROPRIATE DESCRIPTION OF BOX CONTENTS (I.E. ELECTRIC, TELEPHONE, DATA, CABLE TV, ETC.).

4 HAND HOLE DETAIL
SCALE: NONE

**Westover Magnet
Elementary School**

City of Stamford - Stamford
Public Schools
412 Stillwater Ave, Stamford,
CT. 06902

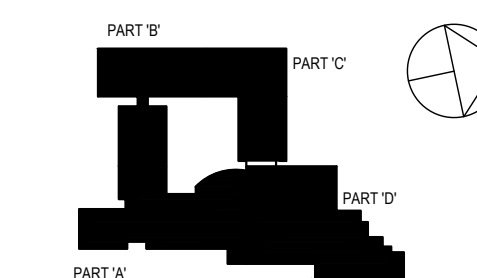
PROJECT # S-6722

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CONSTRUCTION DOCUMENTS

SPN 135-0278RR



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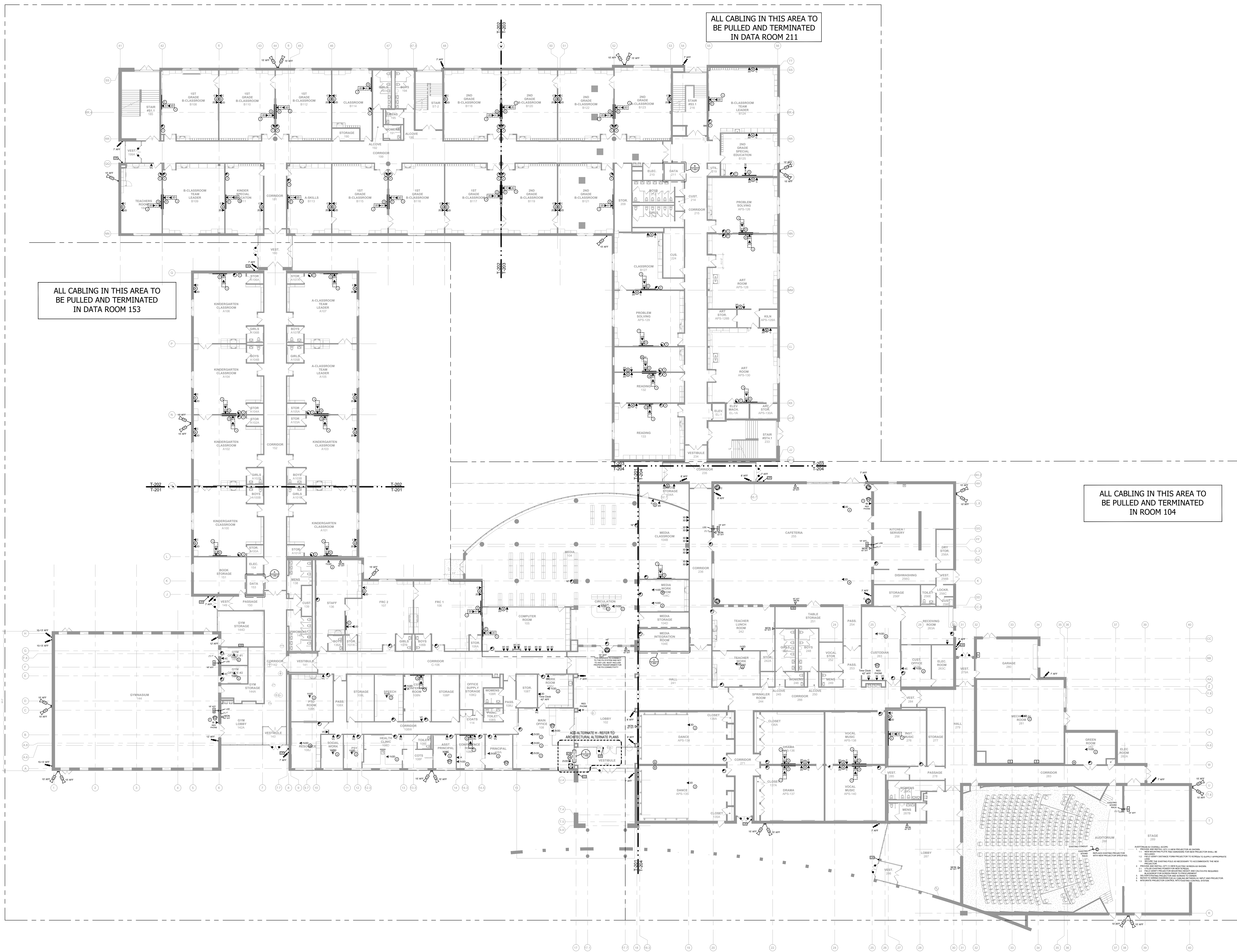
Sheet Title

**TECH-SECURITY
1ST FLOOR
OVERALL PLAN**

Job No. 2019-1016	Date 08/06/2019
Scale AS NOTED	Drawn / Checked JESSICA HUNTER

Sheet Number

T200



Westover Magnet Elementary School

City of Stamford - Stamford Public Schools
412 Stillwater Ave, Stamford, CT. 06902

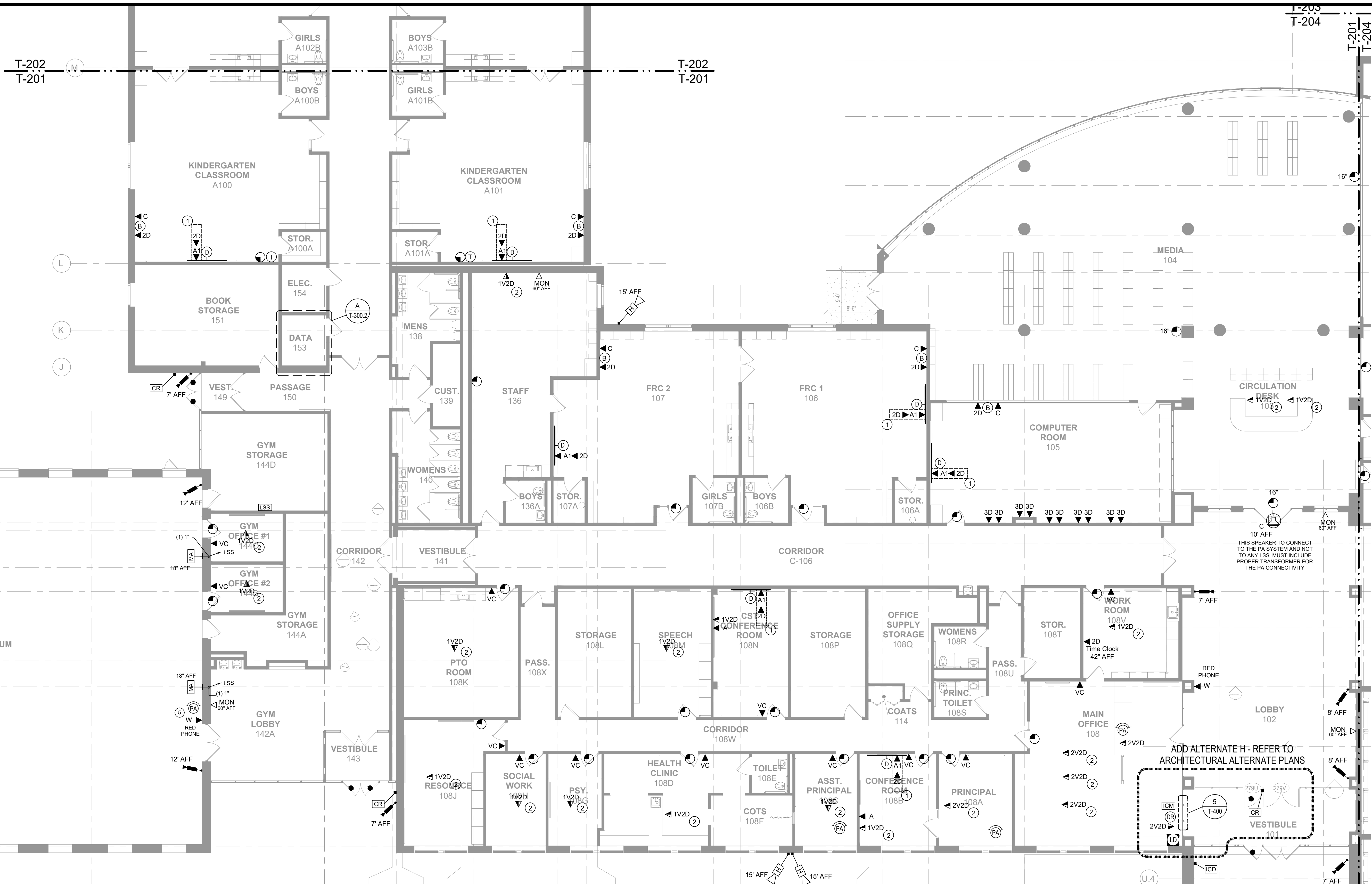
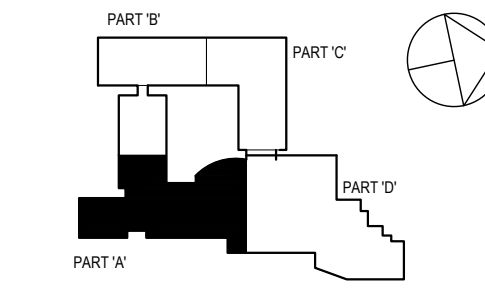
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CONSTRUCTION DOCUMENTS

SPN 135-0278RR



GENERAL NOTES

- DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT.
- ALL COMMUNICATION OUTLETS MUST COINCIDE WITH ELECTRICAL POWER DRAWINGS AND SECURITY DRAWINGS. THE CONTRACTOR MUST COORDINATE ALL LOCATIONS OF THE ELECTRICAL OUTLETS WITH THE DATA OUTLETS.
- DEVICE CABLING SHALL BE TERMINATED WITHIN THE INDICATED DATA ROOMS AND SHALL BE TERMINATED ONTO A 19" RACK MOUNTED, RJ45, CATEGORY 6 and 6A RATED PATCH PANEL.
- THE FOLLOWING CABLING SHALL BE TERMINATED ONTO ITS OWN DISCRETE AND SEPARATE CATEGORY 6A RATED, RACK MOUNTED PATCH PANELS. REFER TO RACK ELEVATION DETAILS.
 - ALL STUDENT AND CLASSROOM SPACES
 - ALL ADMINISTRATION AREAS AND OFFICES
 - ALL WIRELESS AP'S
 - ALL VIDEO SURVEILLANCE CAMERAS (REFER TO SECURITY DRAWINGS FOR PLACEMENT).
- SPEAKER CABLING SHALL BE INSTALLED FROM THE SPEAKER AND/OR SPEAKER ARRAY WITHIN EACH ROOM TO THE DATA ROOM INDICATED WITHIN THE PA WIRING DIAGRAMS.
- LOCATIONS OF EQUIPMENT FOR ALL OTHER TRADES SHALL BE COORDINATED BEFORE CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE LAYOUT LOCATIONS AND CLEARANCE OF ALL EQUIPMENT WITH OTHER TRADES AND ATTAIN OWNERS APPROVAL PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE ALL RACEWAYS, LOCATIONS, AND POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
- ALL VOICE AND DATA OUTLETS THAT DO NOT HAVE AN ELECTRICAL OUTLET WITHIN 3FT SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE PROJECT ARCHITECT, CONSTRUCTION MANAGER, AND TECHNOLOGY CONSULTANT PRIOR TO THE TIME OF INSTALLATION.
- PLACEMENT OF ALL EXTERIOR SECURITY VIDEO SURVEILLANCE CAMERA OUTLET BOXES AND PENETRATIONS MUST BE APPROVED BY THE SECURITY CONSULTANT AND/OR OWNER PRIOR TO CONSTRUCTION.
- ALL PATHWAYS, INCLUDING ALL WALL AND CEILING PENETRATIONS ARE REQUIRED TO INSTALL CABLING TO THE END DEVICE, AND SHALL BE COORDINATED BETWEEN THE LOW VOLTAGE AND SECURITY CONTRACTOR AND THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED AS PART OF THIS SECTION.
- ALL CABLING SHALL BE LABELED AT BOTH ENDS.
- SECURE ATTACHMENT OF TECHNOLOGY ITEMS TO ENSURE PROPER ATTACHMENT OF FIXTURES, FURNISHINGS & EQUIPMENT ITEMS, INCLUDING AND TECHNOLOGY ITEMS, WHERE "ITEMS" ARE ATTACHED TO WALL, CEILING, OVERHEAD STRUCTURE, AND/OR FLOOR, CONTRACTOR SHALL PROVIDE INFORMATION ADEQUATE FOR ARCHITECT TO VERIFY ITEMS, ATTACHED TO WALL, CEILING, AND/OR FLOOR ARE ATTACHED SECURELY AND PER MANUFACTURER'S RECOMMENDATIONS. ARCHITECT'S REVIEW MAY BE IMPLEMENTED DURING SUBMITTAL PROCESS. CONTRACTOR SHALL PROVIDE STRUTS, HANGERS, FASTENERS, SAFETY HARNESSES, CHANNELS, BOLTS, SCREWS, RODS, ETC TO SECURELY ATTACH ITEMS TO EXISTING STRUCTURE AS REQUIRED TO MEET FIELD CONDITIONS AND MEET APPLICABLE CODES.

KEY NOTES

- THESE OUTLETS SHALL BE INSTALLED INTO THE SAME "IN-WALL MOUNTING BOX", ALONGS WITH 2- DOUBLE DUPLEX, 120V OUTLETS, MOUNTING BOX TO BE CHIEF #PAC225FW, 8" x 14.25" x 3.5", WHITE IN-WALL BOX WITH FLANGE
- FIELD LOCATE OUTLETS IN ROOM TO BE ADJACENT TO POWER OUTLETS AND MOUNTED AT LOCATIONS WHERE DESKS WILL BE PLACED.
- FIELD LOCATE OUTLET WITH BMS. CONFIRM LOCATION WITH BMS INSTALLATION.
- FIELD LOCATE OUTLET FOR POS SYSTEMS.
- MOUNT PA HANDSET ONTO WALL MOUNTED PHONE PLATE AND JACK AT 48" A.F.F. OUTLET BOX, CONDUIT TO ACCESSIBLE CEILING AND WALL MOUNTING PLATE AS REQUIRED.

DEMOLITION NOTES

- DO NOT REMOVE ANY FIBER OPTIC CABLING. ALL FIBER OPTIC CABLING SHALL REMAIN ***
- ALL EXISTING CLOCKS SHALL BE REMOVED AND DISCARDED. THIS INCLUDES ALL POWER AND SIGNALING CABLING ASSOCIATED WITH THE CLOCKS.
- ALL EXISTING ETHERNET CABLING SHALL BE REMOVED AND DISCARDED.
- ALL EXISTING RACK MOUNTED PATCH PANELS SHALL BE REMOVED AND DISCARDED.
- ALL EXISTING COAXIAL CABLING SHALL BE REMOVED AND DISCARDED.
- ALL PUBLIC ADDRESS SPEAKERS, HORNS, BELLS AND ASSOCIATED CABLING SHALL BE REMOVED AND DISCARDED.

NOTE: ALL CEILING, DESKTOP, ARRANGEMENTS AND PLANS INDICATED OR REFERENCED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OF K&G+D ARCHITECTS PC. NO PART OF THIS DRAWING OR ANY INFORMATION CONTAINED HEREIN SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF K&G+D ARCHITECTS PC.

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Professional Seal

2	8/6/2019	ISSUED FOR BID
1	7/25/2019	CLIENT REVIEW SET
Sheet Title		

TECH-SECURITY 1ST FLOOR PLAN PART 'A'

Job No.	2019-1016	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	JESSICA HUNTER
Sheet Number	T201		

Westover Magnet Elementary School

City of Stamford - Stamford Public Schools
412 Stillwater Ave, Stamford, CT. 06902

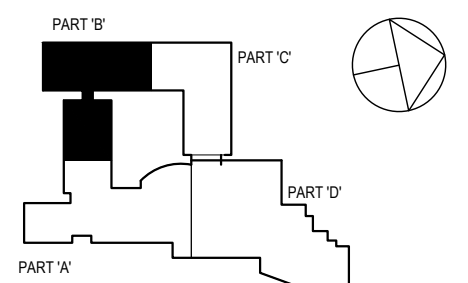
PROJECT # S-6722

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



CONSTRUCTION DOCUMENTS

SPN 135-0278RR



GENERAL NOTES

- DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT.
- ALL COMMUNICATION OUTLETS MUST COINCIDE WITH ELECTRICAL POWER DRAWINGS AND SECURITY DRAWINGS. THE CONTRACTOR MUST COORDINATE ALL LOCATIONS OF THE ELECTRICAL OUTLETS WITH THE DATA OUTLETS. DEVICE CABLING SHALL BE TERMINATED WITHIN THE INDICATED DATA ROOMS AND SHALL BE TERMINATED ONTO A 19" RACK MOUNTED, RJ45, CATEGORY 6 and 6A RATED PATCH PANEL.
- THE FOLLOWING CABLING SHALL BE TERMINATED ONTO ITS OWN DISCRETE AND SEPARATE CATEGORY 6A RATED, RACK MOUNTED PATCH PANELS. REFER TO RACK ELEVATION DETAILS.
 - ALL STUDENT AND CLASSROOM SPACES
 - ALL ADMINISTRATION AREAS AND OFFICES
 - ALL WIRELESS AP'S
 - ALL VIDEO SURVEILLANCE CAMERAS (REFER TO SECURITY DRAWINGS FOR PLACEMENT).
- SPEAKER CABLING SHALL BE INSTALLED FROM THE SPEAKER AND/OR SPEAKER ARRAY WITHIN EACH ROOM TO THE DATA ROOM INDICATED WITHIN THE PA WIRING DIAGRAMS.
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- CONTRACTOR SHALL COORDINATE LAYOUT LOCATIONS AND CLEARANCE OF ALL EQUIPMENT WITH OTHER TRADES AND OBTAIN OWNERS APPROVAL PRIOR TO CONSTRUCTION.
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- ALL VOICE AND DATA OUTLETS THAT DO NOT HAVE AN ELECTRICAL OUTLET WITHIN 3FT SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE PROJECT ARCHITECT, CONSTRUCTION MANAGER, AND TECHNOLOGY CONSULTANT PRIOR TO THE TIME OF INSTALLATION.
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Professional Seal

2	8/6/2019	ISSUED FOR BID
1	7/25/2019	CLIENT REVIEW SET
Sheet Title		

TECH-SECURITY 1ST FLOOR PLAN PART 'B'

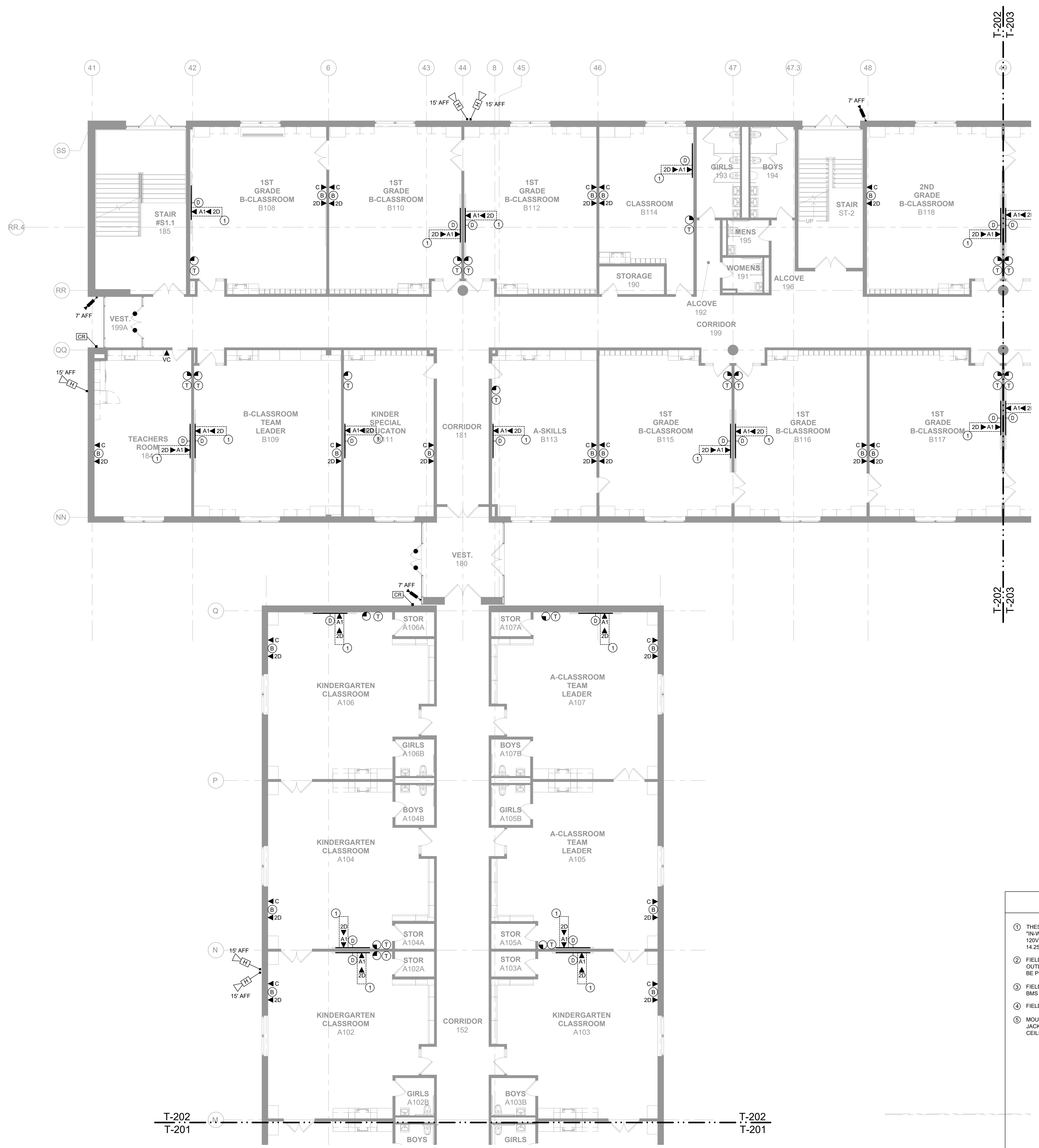
Job No.	2019-1016	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	JESSICA HUNTER
Sheet Number	T202		

KEY NOTES

- THESE OUTLETS SHALL BE INSTALLED INTO THE SAME "N"-WALL MOUNTING BOX, ALONG WITH 2- DOUBLE DUPLEX, 120V OUTLETS. MOUNTING BOX TO BE CHIEF #PAC225FW, 8" x 14.25" x 3.9", WHITE IN-WALL BOX WITH FLANGE
- FIELD LOCATE OUTLETS IN ROOM TO BE ADJACENT TO POWER OUTLETS AND MOUNTED AT LOCATIONS WHERE DESKS WILL BE PLACED.
- FIELD LOCATE OUTLET WITH BMS. CONFIRM LOCATION WITH BMS INSTALLATION.
- FIELD LOCATE OUTLET FOR POS SYSTEMS.
- MOUNT PA HANDSET ONTO WALL MOUNTED PHONE PLATE AND JACK AT 48" A.F.F. OUTLET BOX, CONDUIT TO ACCESSIBLE CEILING AND WALL MOUNTING PLATE AS REQUIRED.

DEMOLITION NOTES

- DO NOT REMOVE ANY FIBER OPTIC CABLING. ALL FIBER OPTIC CABLING SHALL REMAIN ***
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**Westover Magnet
Elementary School**

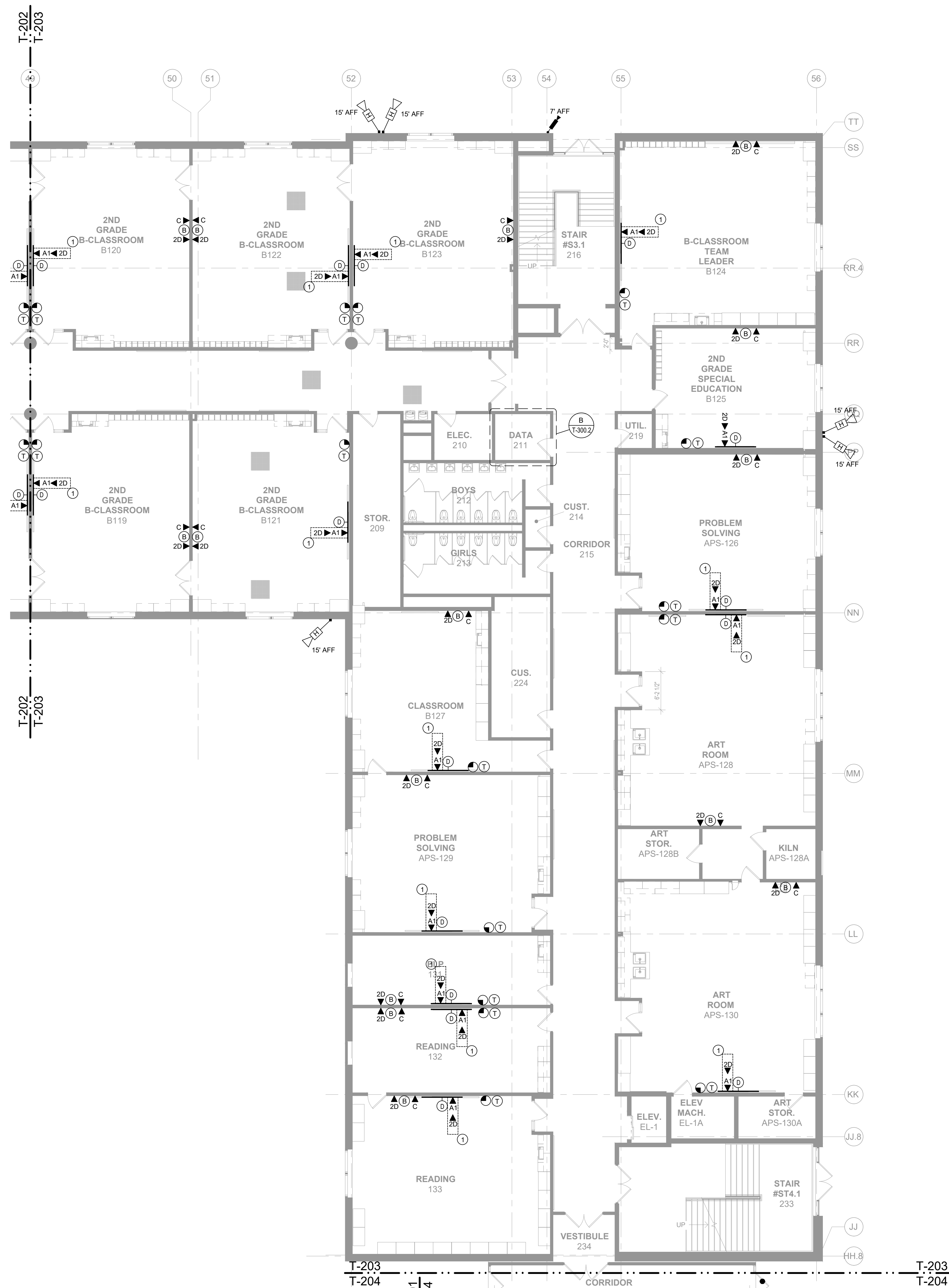
City of Stamford - Stamford
Public Schools
412 Stillwater Ave, Stamford,
CT. 06902

PROJECT # S-6722

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CONSTRUCTION DOCUMENTS



- ### KEY NOTES
- ① THESE OUTLETS SHALL BE INSTALLED INTO THE SAME "IN-WALL MOUNTING BOX", ALONG WITH 2- DOUBLE DUPLEX, 120V OUTLETS. MOUNTING BOX TO BE CHIEF #PAC228FW, 9" x 14.25" x 3.9", WHITE IN-WALL BOX WITH FLANGE
 - ② FIELD LOCATE OUTLETS IN ROOM TO BE ADJACENT TO POWER OUTLETS AND MOUNTED AT LOCATIONS WHERE DESKS WILL BE PLACED.
 - ③ FIELD LOCATE OUTLET WITH BMS. CONFIRM LOCATION WITH BMS INSTALLATION.
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 - ⑤ MOUNT PA HANDSET ONTO WALL MOUNTED PHONE PLATE AND JACK AT 48" A.F.F. OUTLET BOX, CONDUIT TO ACCESSIBLE CEILING AND WALL MOUNTING PLATE AS REQUIRED.

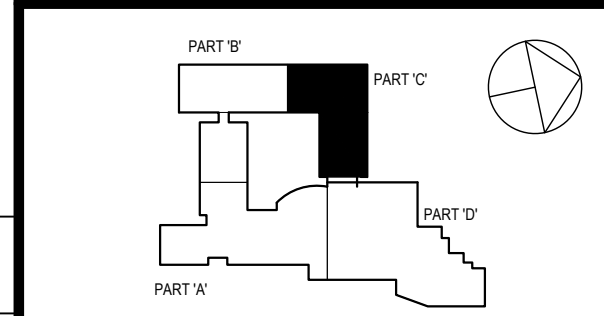
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 - 4.1. ALL STUDENT AND CLASSROOM SPACES
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12. ALL CABLEING SHALL BE LABELED AT BOTH ENDS.
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DEMOLITION NOTES

- 101. *** DO NOT REMOVE ANY FIBER OPTIC CABLEING. ALL FIBER OPTIC CABLEING SHALL REMAIN ***
- 102. ALL EXISTING CLOCKS SHALL BE REMOVED AND DISCARDED. THIS INCLUDES ALL POWER AND SIGNALING CABLEING ASSOCIATED WITH THE CLOCKS.
- 103. ALL EXISTING ETHERNET CABLEING SHALL BE REMOVED AND DISCARDED.
- 104. ALL EXISTING RACK MOUNTED PATCH PANELS SHALL BE REMOVED AND DISCARDED.
- 105. ALL EXISTING COAXIAL CABLEING SHALL BE REMOVED AND DISCARDED.
- 106. ALL PUBLIC ADDRESS SPEAKERS, HORNS, BELLS AND ASSOCIATED CABLEING SHALL BE REMOVED AND DISCARDED.

SPN 135-0278RR



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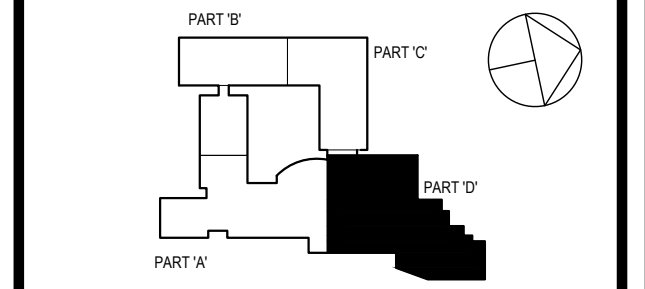
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1	7/25/2019	CLIENT REVIEW SET
Sheet Title		

TECH-SECURITY 1ST FLOOR PLAN PART 'C'

Job No.	2019-1016	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	JESSICA HUNTER
Sheet Number		T203	



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WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER DIMENSIONS SHOWN ON THIS DRAWING. ALL DIMENSIONS SHALL BE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHALL BE TO FACE UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHALL BE TO CENTER UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHALL BE TO THE CENTER UNLESS OTHERWISE NOTED. ALL DIMENSIONS SHALL BE TO THE CENTER UNLESS OTHERWISE NOTED.

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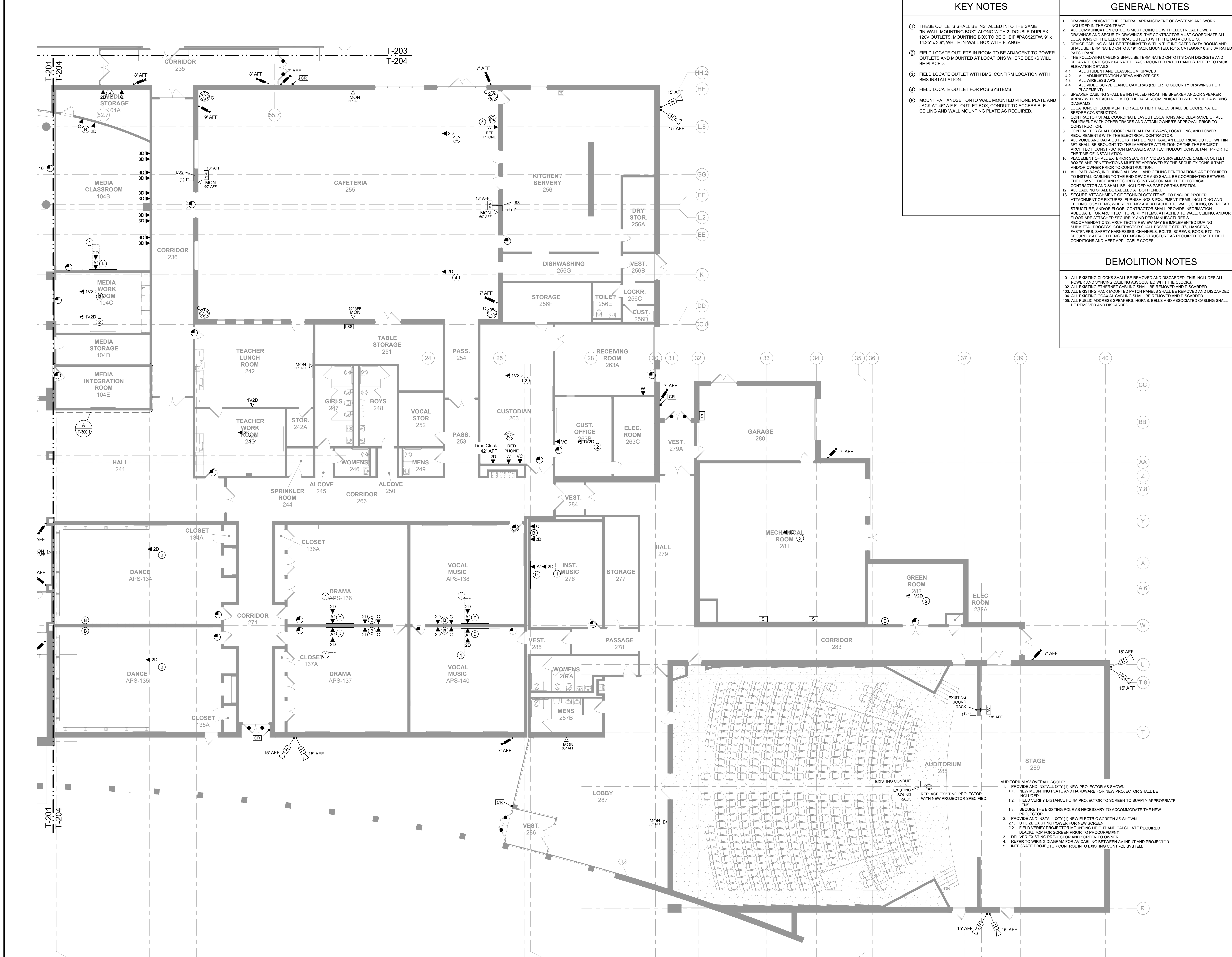
Professional Seal

2	8/6/2019	ISSUED FOR BID
1	7/25/2019	CLIENT REVIEW SET
Sheet Title		
TECH-SECURITY 1ST FLOOR PLAN PART 'D'		
Job No.	2019-1016	Date
Scale	AS NOTED	Drawn / Checked
Sheet Number	T204	

- KEY NOTES**
- THESE OUTLETS SHALL BE INSTALLED INTO THE SAME "IN-WALL MOUNTING BOX", ALONG WITH 2- DOUBLE DUPLEX, 120V OUTLETS, MOUNTING BOX TO BE CHEF #PACS25FW, 9" x 14 25" x 3.9", WHITE IN-WALL BOX WITH FLANGE
 - FIELD LOCATE OUTLETS IN ROOM TO BE ADJACENT TO POWER OUTLETS AND MOUNTED AT LOCATIONS WHERE DESKS WILL BE PLACED.
 - FIELD LOCATE OUTLET WITH BMS. CONFIRM LOCATION WITH BMS INSTALLATION.
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 - THE FOLLOWING CABLEING SHALL BE TERMINATED ONTO ITS OWN DISCRETE AND SEPARATE CATEGORY 6A RATED, RACK MOUNTED PATCH PANELS. REFER TO RACK ELEVATION DETAILS:
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 - ALL WIRELESS AP'S
 - ALL VIDEO SURVEILLANCE CAMERAS (REFER TO SECURITY DRAWINGS FOR PLACEMENT)
 - SPEAKER CABLEING SHALL BE INSTALLED FROM THE SPEAKER AND/OR SPEAKER ARRAY WITHIN EACH ROOM TO THE DATA ROOM INDICATED WITHIN THE PA WIRING DIAGRAMS.
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 - ALL PUBLIC ADDRESS SPEAKERS, HORNS, BELLS AND ASSOCIATED CABLEING SHALL BE REMOVED AND DISCARDED.



- AUDITORIUM AV OVERALL SCOPE:**
- PROVIDE AND INSTALL QTY (1) NEW PROJECTOR AS SHOWN.
 - NEW MOUNTING PLATE AND HARDWARE FOR NEW PROJECTOR SHALL BE INCLUDED.
 - FIELD VERIFY DISTANCE FROM PROJECTOR TO SCREEN TO SUPPLY APPROPRIATE LENS.
 - SECURE THE EXISTING POLE AS NECESSARY TO ACCOMMODATE THE NEW PROJECTOR.
 - PROVIDE AND INSTALL QTY (1) NEW ELECTRIC SCREEN AS SHOWN.
 - UTILIZE EXISTING POWER FOR NEW SCREEN.
 - FIELD VERIFY PROJECTOR MOUNTING HEIGHT AND CALCULATE REQUIRED BLACKDROPP FOR SCREEN PRIOR TO PROCUREMENT.
 - DELIVER EXISTING PROJECTOR AND SCREEN TO OWNER.
 - REFER TO WIRING DIAGRAM FOR AV CABLEING BETWEEN AV INPUT AND PROJECTOR.
 - INTEGRATE PROJECTOR CONTROL INTO EXISTING CONTROL SYSTEM.

**Westover Magnet
Elementary School**

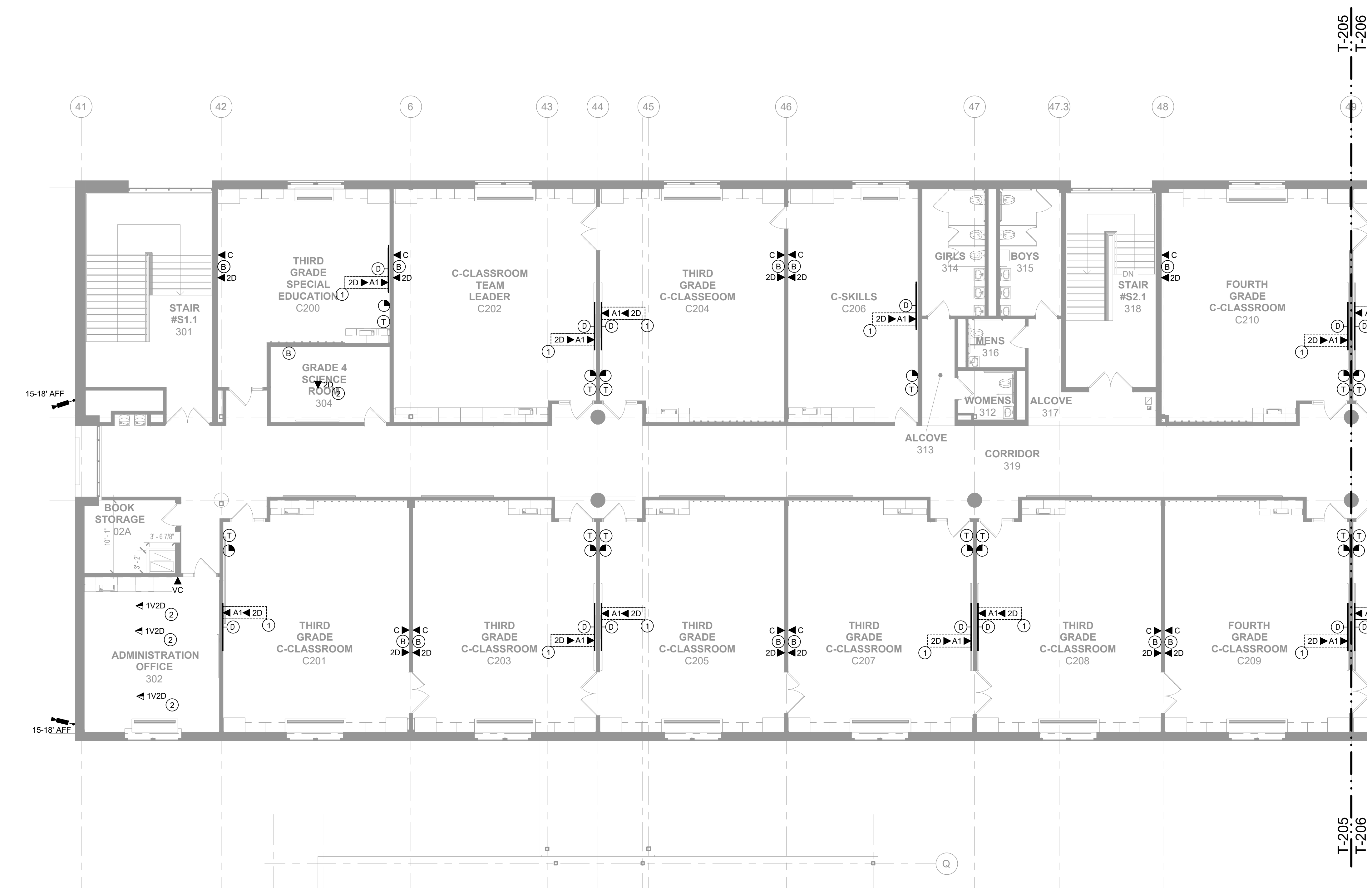
City of Stamford - Stamford
Public Schools
412 Stillwater Ave, Stamford,
CT. 06902

PROJECT # S-6722

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



CONSTRUCTION DOCUMENTS



- KEY NOTES**
- ① THESE OUTLETS SHALL BE INSTALLED INTO THE SAME 7"X11" MOUNTING BOX, ALONGS WITH 2" DOUBLE DUPLEX, 120V OUTLETS. MOUNTING BOX TO BE CHIEF #PAC282FW, 8" x 14.25" x 3.5". WHITE IN-WALL BOX WITH FLANGE
 - ② FIELD LOCATE OUTLETS IN ROOM TO BE ADJACENT TO POWER OUTLETS AND MOUNTED AT LOCATIONS WHERE DESKS WILL BE PLACED.
 - ③ FIELD LOCATE OUTLET WITH BMS. CONFIRM LOCATION WITH BMS INSTALLATION.
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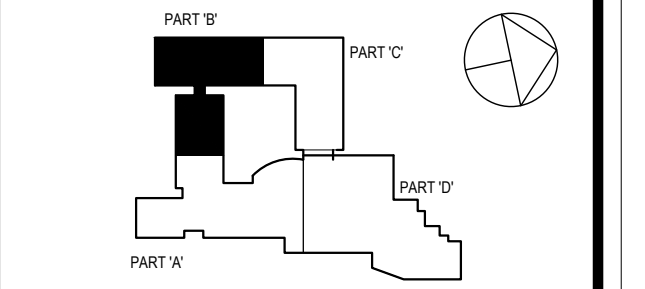
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10. PLACEMENT OF ALL EXTERIOR SECURITY VIDEO SURVEILLANCE CAMERA OUTLET BOXES AND PENETRATIONS MUST BE APPROVED BY THE SECURITY CONSULTANT AND/OR OWNER PRIOR TO CONSTRUCTION.
11. ALL PATHWAYS, INCLUDING ALL WALL AND CEILING PENETRATIONS ARE REQUIRED TO INSTALL CABLING TO THE END DEVICE, AND SHALL BE COORDINATED BETWEEN THE LOW VOLTAGE AND SECURITY CONTRACTOR AND THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED AS PART OF HIS SECTION.
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DEMOLITION NOTES

- 101. *** DO NOT REMOVE ANY FIBER OPTIC CABLING. ALL FIBER OPTIC CABLING SHALL REMAIN ***
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1	7/25/2019	CLIENT REVIEW SET
Sheet Title		

**TECH-SECURITY
2ND FLOOR PLAN
PART 'B'**

Job No.	2019-1016	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	JESSICA HUNTER
Sheet Number	T205		

Westover Magnet Elementary School

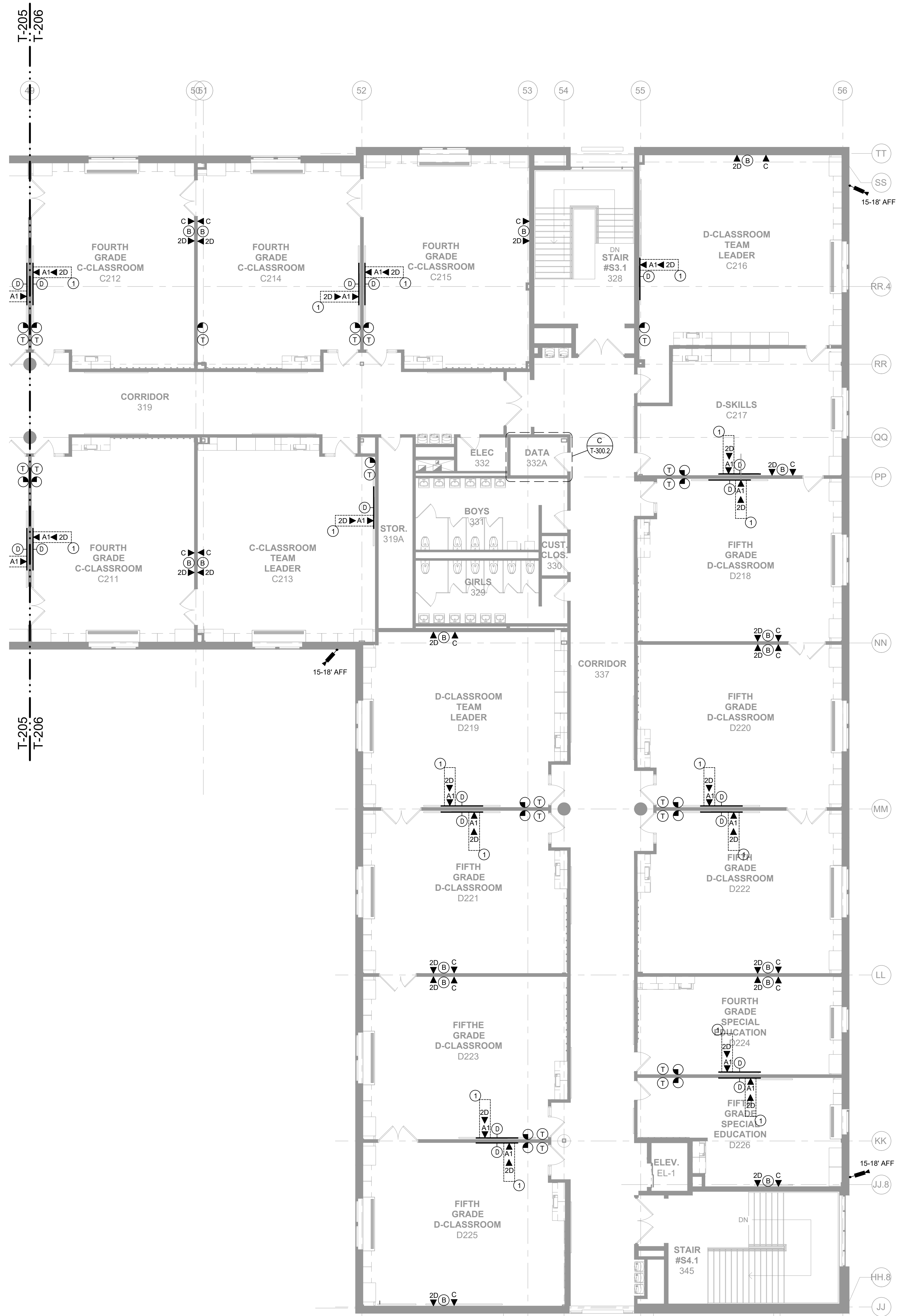
City of Stamford - Stamford Public Schools
412 Stillwater Ave, Stamford, CT. 06902

PROJECT # S-6722

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d'agostino & ASSOCIATES
Technology - Security - Audio Visual
1200 EAST MAIN STREET SUITE 700 STAMFORD, CT 06802
1000 LAFAYETTE BLVD. SUITE 1100 BRIDGEPORT, CT 06604
TEL: 203.338.6184 FAX: 203.338.6021

CONSTRUCTION DOCUMENTS



- ### KEY NOTES
- ① THESE OUTLETS SHALL BE INSTALLED INTO THE SAME "IN-WALL MOUNTING BOX", ALONG WITH 2- DOUBLE DUPLEX, 120V OUTLETS. MOUNTING BOX TO BE CHIEF #PAC228FW, 8" x 14.25" x 3.9", WHITE IN-WALL BOX WITH FLANGE
 - ② FIELD LOCATE OUTLETS IN ROOM TO BE ADJACENT TO POWER OUTLETS AND MOUNTED AT LOCATIONS WHERE DESKS WILL BE PLACED.
 - ③ FIELD LOCATE OUTLET WITH BMS. CONFIRM LOCATION WITH BMS INSTALLATION.
 - ④ FIELD LOCATE OUTLET FOR POS SYSTEMS.
 - ⑤ MOUNT PA HANDSET ONTO WALL MOUNTED PHONE PLATE AND JACK AT 48" A.F.F. OUTLET BOX, CONDUIT TO ACCESSIBLE CEILING AND WALL MOUNTING PLATE AS REQUIRED.

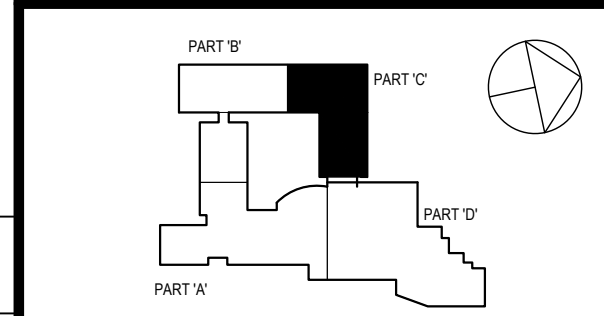
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3. DEVICE CABLEING SHALL BE TERMINATED WITHIN THE INDICATED DATA ROOMS AND SHALL BE TERMINATED ONTO A 19" RACK MOUNTED, RJ45, CATEGORY 6 and 6A RATED PATCH PANEL.
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 - 4.1. ALL STUDENT AND CLASSROOM SPACES
 - 4.2. ALL ADMINISTRATION AREAS AND OFFICES
 - 4.3. ALL WIRELESS AP'S
 - 4.4. ALL VIDEO SURVEILLANCE CAMERAS (REFER TO SECURITY DRAWINGS FOR PLACEMENT).
5. SPEAKER CABLEING SHALL BE INSTALLED FROM THE SPEAKER AND/OR SPEAKER ARRAY WITHIN EACH ROOM TO THE DATA ROOM INDICATED WITHIN THE PA WIRING DIAGRAMS.
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SPN 135-0278RR



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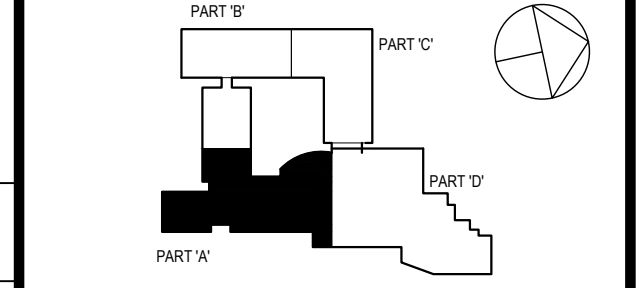
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2	8/6/2019	ISSUED FOR BID
1	7/25/2019	CLIENT REVIEW SET
Sheet Title		

TECH-SECURITY 2ND FLOOR PLAN PART 'C'

Job No.	2019-1016	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	JESSICA HUNTER
Sheet Number		T206	



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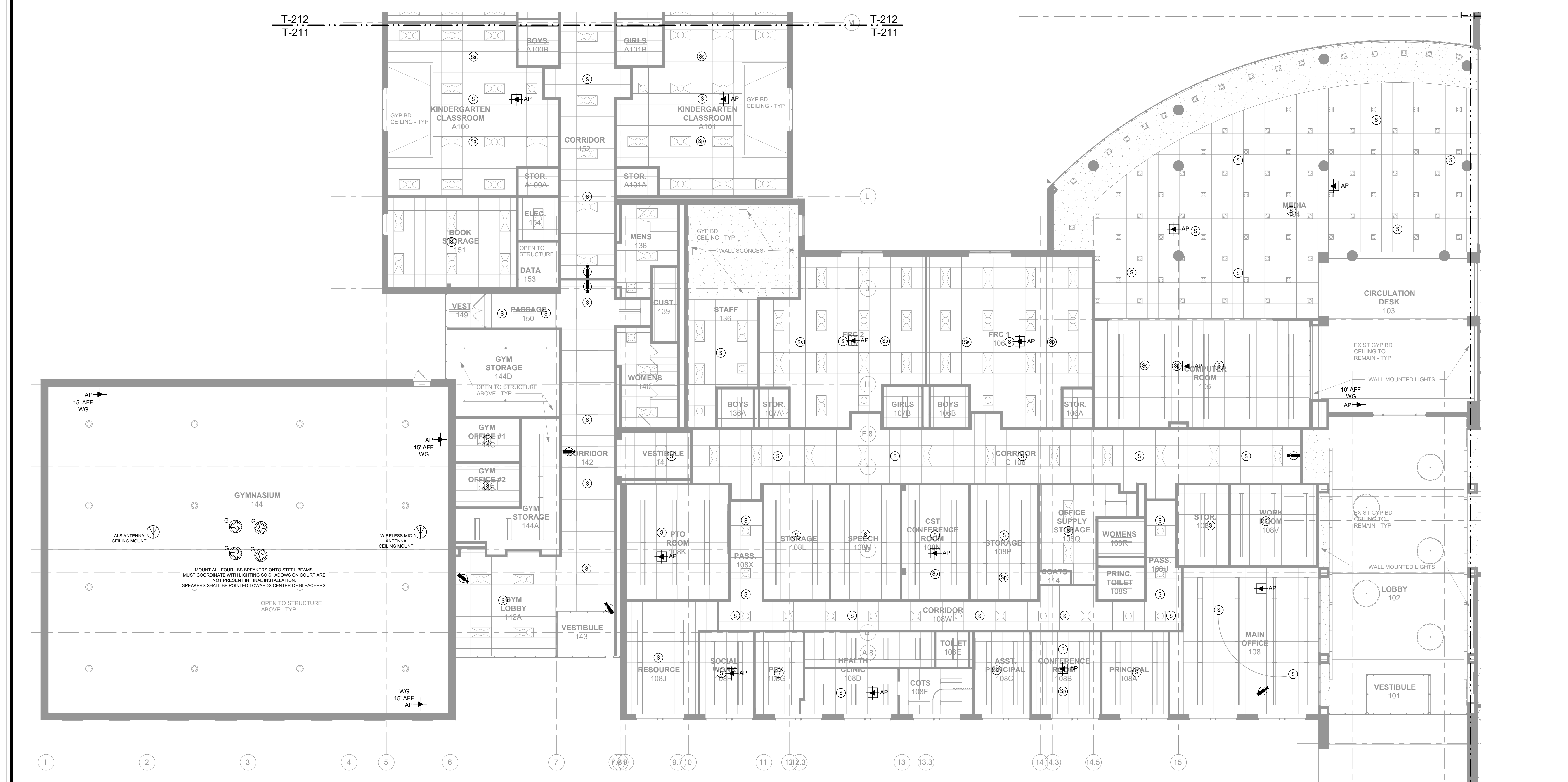
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2	8/6/2019	ISSUED FOR BID
1	7/25/2019	CLIENT REVIEW SET
Sheet Title		

**TECH-SECURITY
1ST FLOOR RCP
PART 'A'**

Job No.	2019-1016	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	JESSICA HUNTER
Sheet Number			



GENERAL NOTES

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Westover Magnet Elementary School

City of Stamford - Stamford Public Schools
412 Stillwater Ave, Stamford, CT. 06902

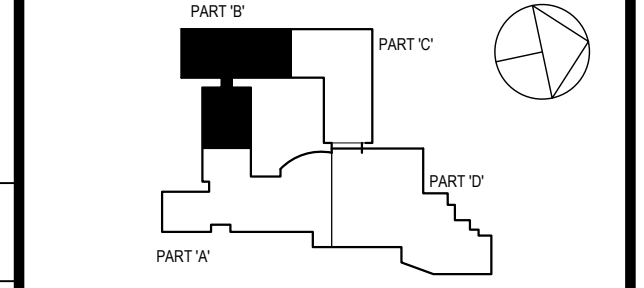
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TECH-SECURITY 1ST FLOOR RCP PART 'B'

Job No.	2019-1016	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	JESSICA HUNTER
Sheet Number	T212		



GENERAL NOTES

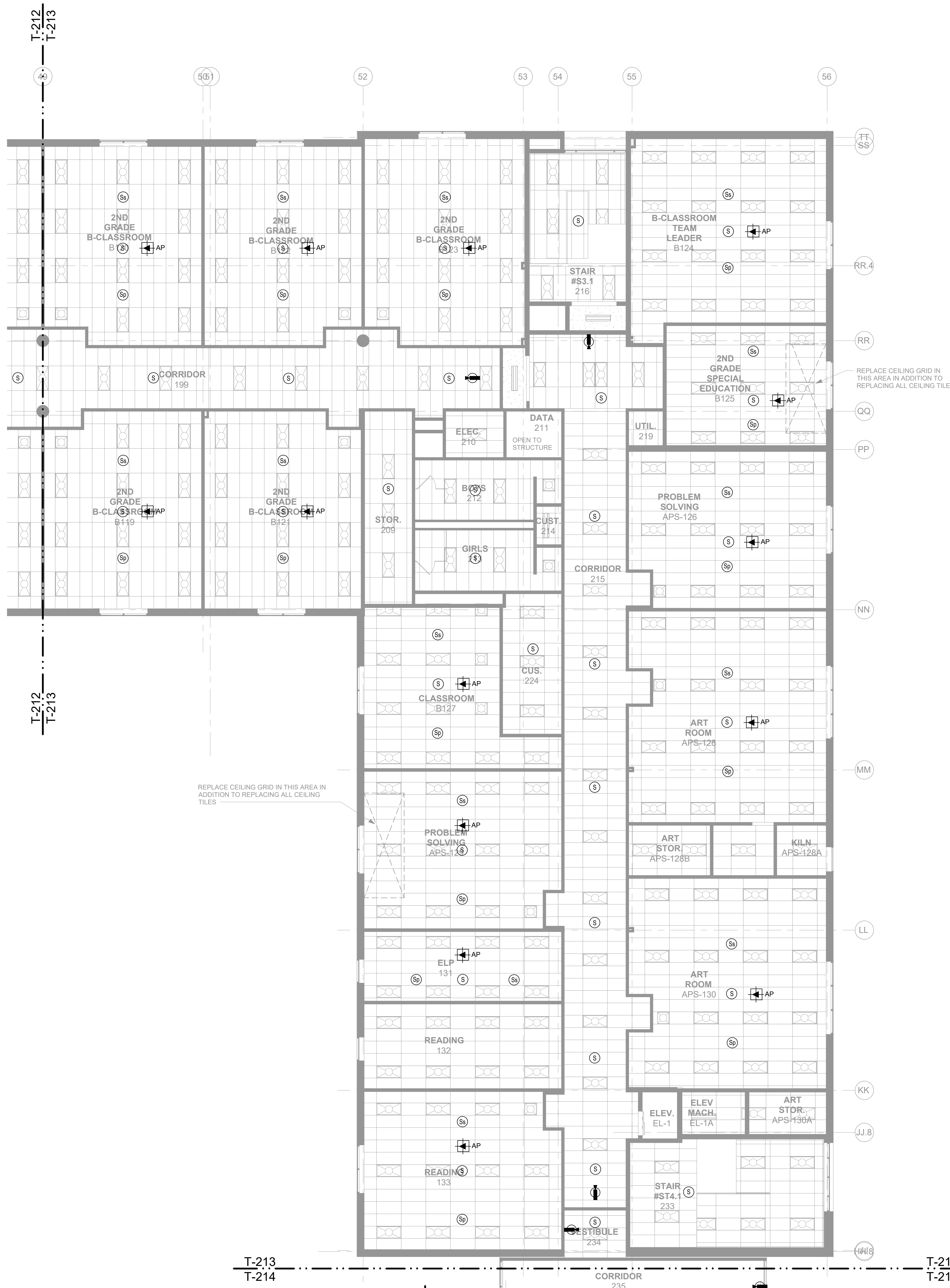
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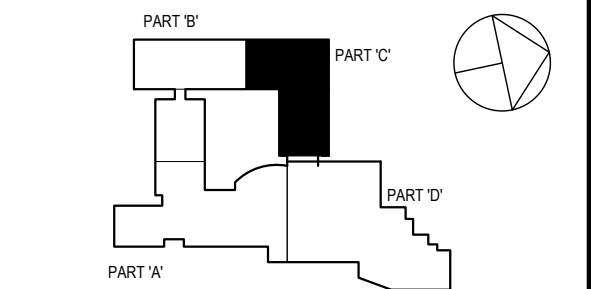
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SPN 135-0278RR



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- CONTRACTOR SHALL COORDINATE ALL RACEWAYS, LOCATIONS, AND POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
- ALL VOICE AND DATA OUTLETS THAT DO NOT HAVE AN ELECTRICAL OUTLET WITHIN 3FT SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE PROJECT ARCHITECT, CONSTRUCTION MANAGER, AND TECHNOLOGY CONSULTANT PRIOR TO THE TIME OF INSTALLATION.
- PLACEMENT OF ALL EXTERIOR SECURITY VIDEO SURVEILLANCE CAMERA OUTLET BOXES AND PENETRATIONS MUST BE APPROVED BY THE SECURITY CONSULTANT AND/OR OWNER PRIOR TO CONSTRUCTION.
- ALL PATHWAYS, INCLUDING ALL WALL AND CEILING PENETRATIONS ARE REQUIRED TO INSTALL CABLING TO THE END DEVICE AND SHALL BE COORDINATED BETWEEN THE LOW VOLTAGE AND SECURITY CONTRACTOR AND THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED AS PART OF THIS SECTION.
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KEY NOTES

- THESE OUTLETS SHALL BE INSTALLED INTO THE SAME "IN-WALL-MOUNTING BOX" ALONG WITH 2-DOUBLE DUPLEX, 120V OUTLETS. MOUNTING BOX TO BE CHIEF #PAC525FW, 9" x 14.25" x 3.9", WHITE, IN-WALL BOX WITH FLANGE.
- FIELD LOCATE OUTLETS IN ROOM TO BE ADJACENT TO POWER OUTLETS AND MOUNTED AT LOCATIONS WHERE DESKS WILL BE PLACED.
- FIELD LOCATE OUTLET WITH BMS. CONFIRM LOCATION WITH BMS INSTALLATION.
- FIELD LOCATE OUTLET FOR POS SYSTEMS.
- MOUNT PA HANDSET ONTO WALL MOUNTED PHONE PLATE AND JACK AT 46" A.F.F. OUTLET BOX, CONDUIT TO ACCESSIBLE CEILING AND WALL MOUNTING PLATE AS REQUIRED.

DEMOLITION NOTES

- DO NOT REMOVE ANY FIBER OPTIC CABLING. ALL FIBER OPTIC CABLING SHALL REMAIN ***
- ALL EXISTING CLOCKS SHALL BE REMOVED AND DISCARDED. THIS INCLUDES ALL POWER AND SYNCING CABLING ASSOCIATED WITH THE CLOCKS.
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2 8/6/2019 ISSUED FOR BID

1 7/26/2019 CLIENT REVIEW SET

Sheet Title

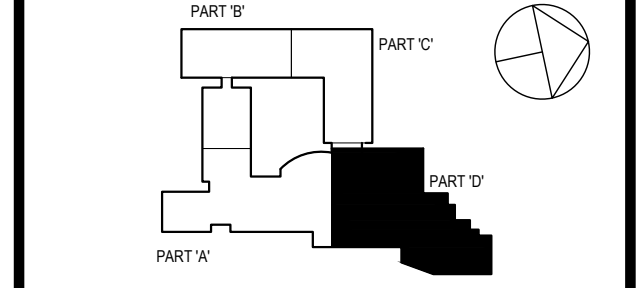
**TECH-SECURITY
1ST FLOOR RCP
PART 'C'**

Job No. 2019-1016 Date 08/06/2019

Scale AS NOTED Drawn / Checked JESSICA HUNTER

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T213



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ALTERATIONS BY ANY PERSON, IN ANY WAY, OF ANY ITEM CONTAINED ON THIS DOCUMENT (WHILE ACTIVE UNDER THE DIRECTION OF THE LICENSED ARCHITECT) WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF THE N.E.C.T. § 9-10 OF NEW HAVEN STATE LAW.
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Professional Seal

2	8/6/2019	ISSUED FOR BID
1	7/25/2019	CLIENT REVIEW SET

Sheet Title

**TECH-SECURITY
 1ST FLOOR RCP
 PART 'D'**

Job No.	2019-1016	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	JESSICA HUNTER

Sheet Number

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**Westover Magnet
Elementary School**

City of Stamford - Stamford
Public Schools
412 Stillwater Ave, Stamford,
CT. 06902

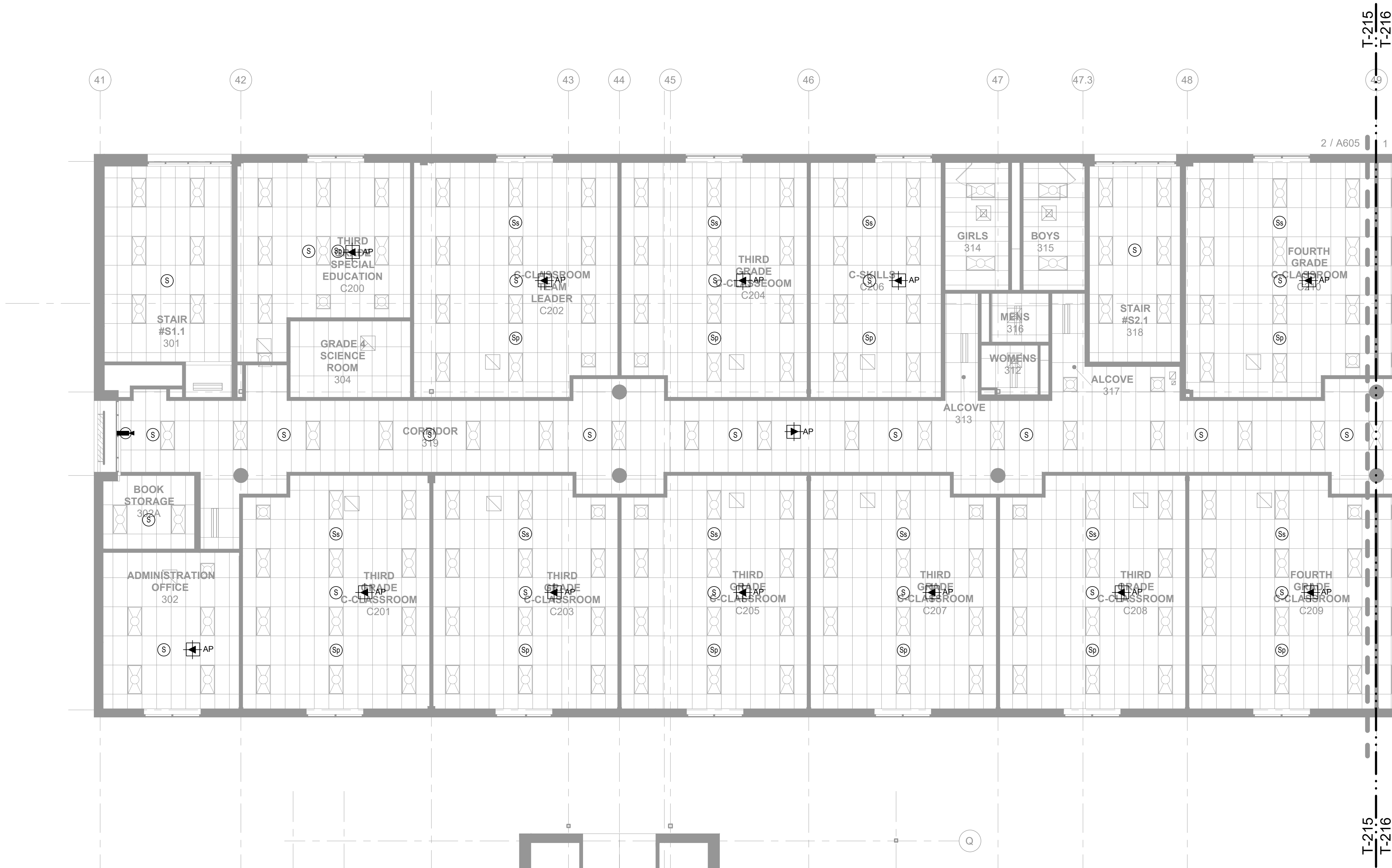
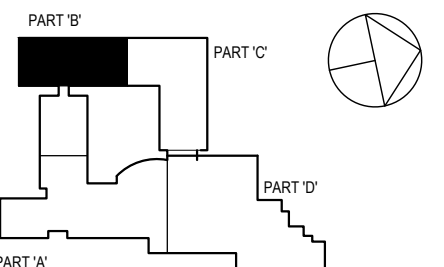
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CONSTRUCTION DOCUMENTS

SPN 135-0278RR



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Professional Seal

**TECH-SECURITY
2ND FLOOR RCP
PART 'B'**

Job No.	2019-1016	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	JESSICA HUNTER
Sheet Number	T215		

**Westover Magnet
Elementary School**

City of Stamford - Stamford
Public Schools
412 Stillwater Ave, Stamford,
CT. 06902

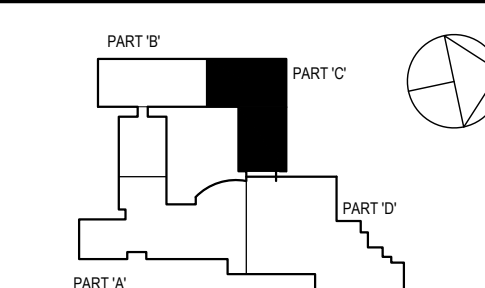
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d'agostino
& ASSOCIATES
Technology - Security - Audio Visual
1206 EAST MAIN STREET SUITE 1100
STAMFORD, CT 06902 BRIDGEPORT, CT 06604
TEL: 203.536.6104
FAX: 203.536.6001

CONSTRUCTION DOCUMENTS

SPN 135-0278RR



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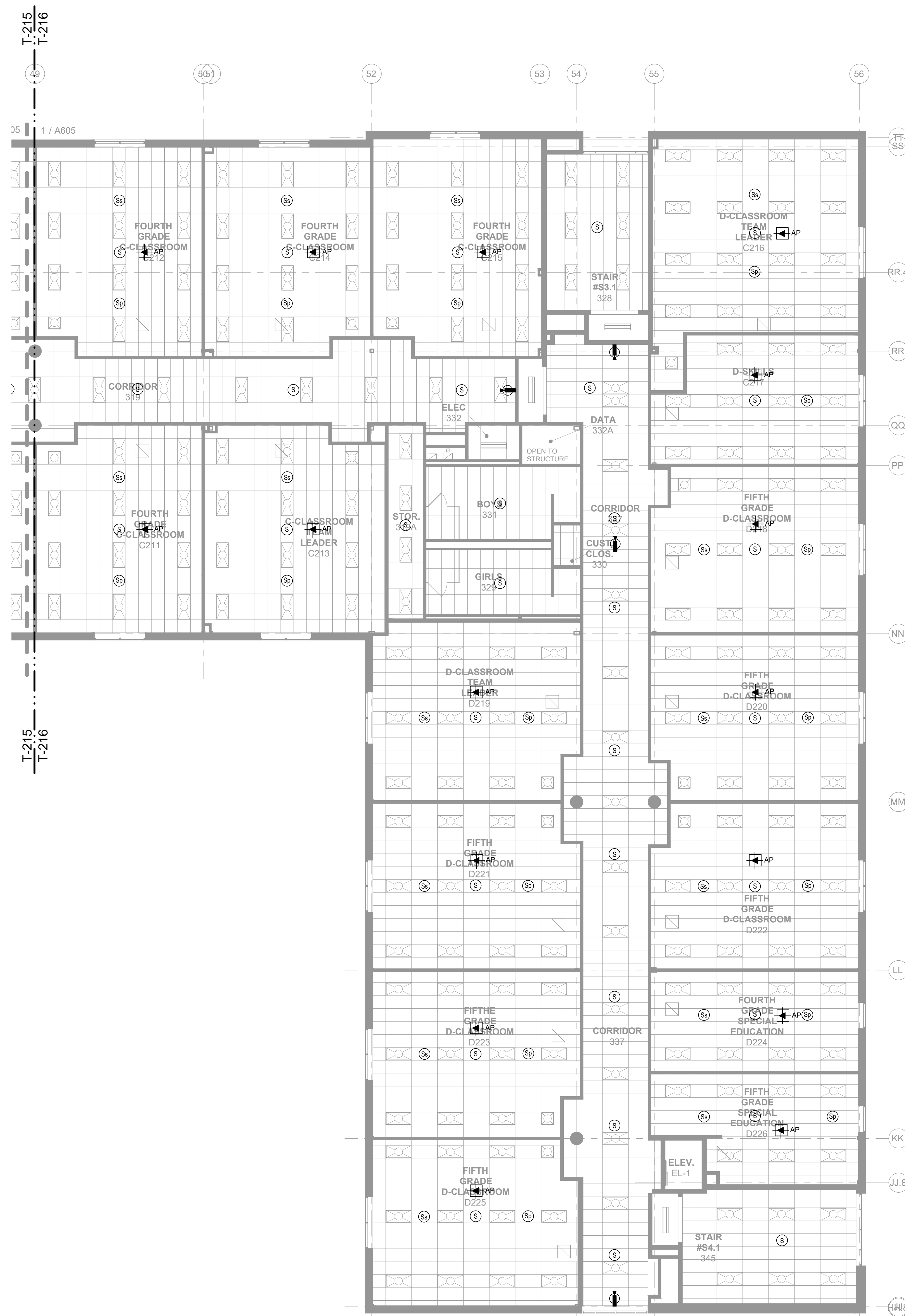
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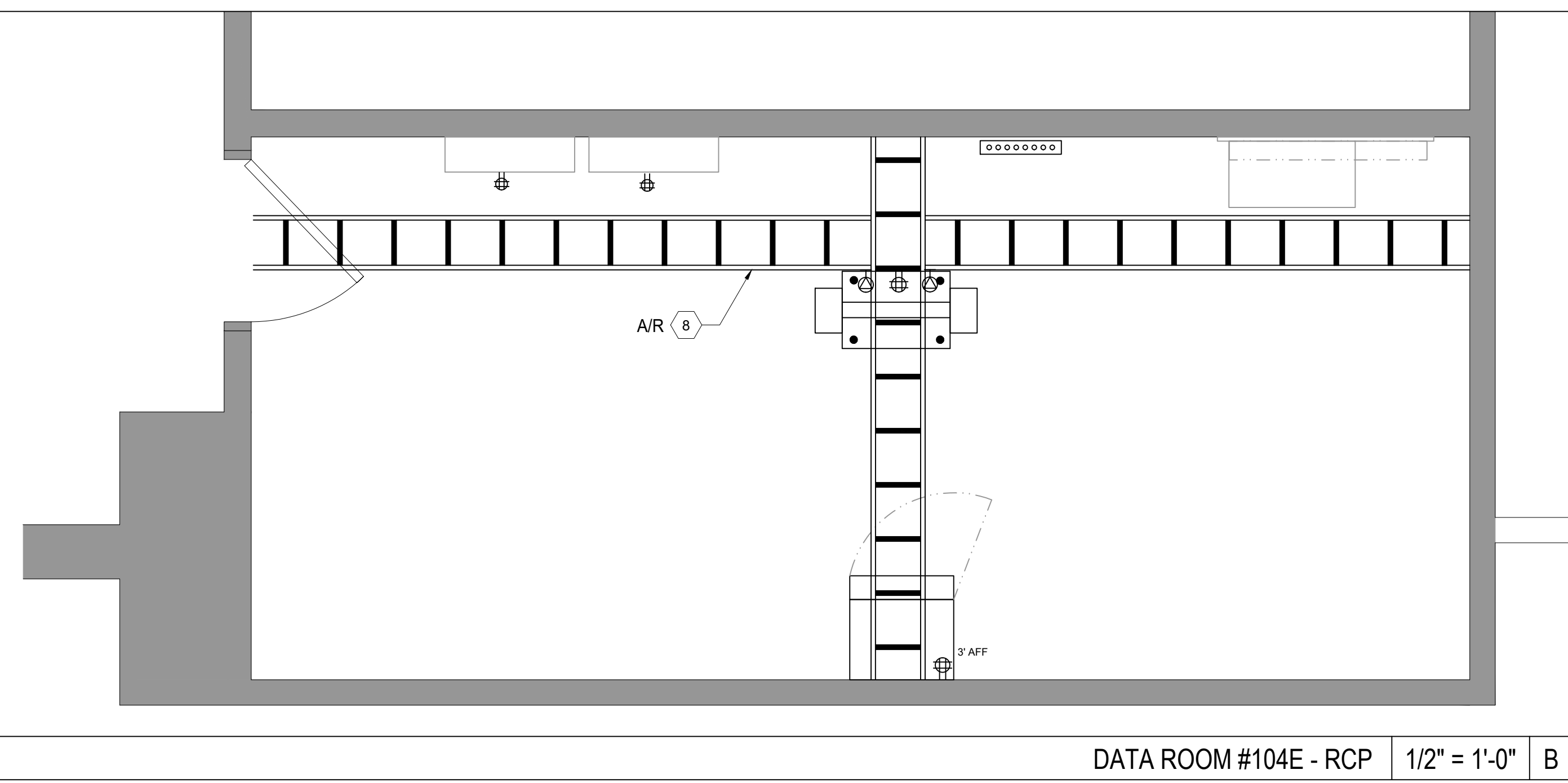
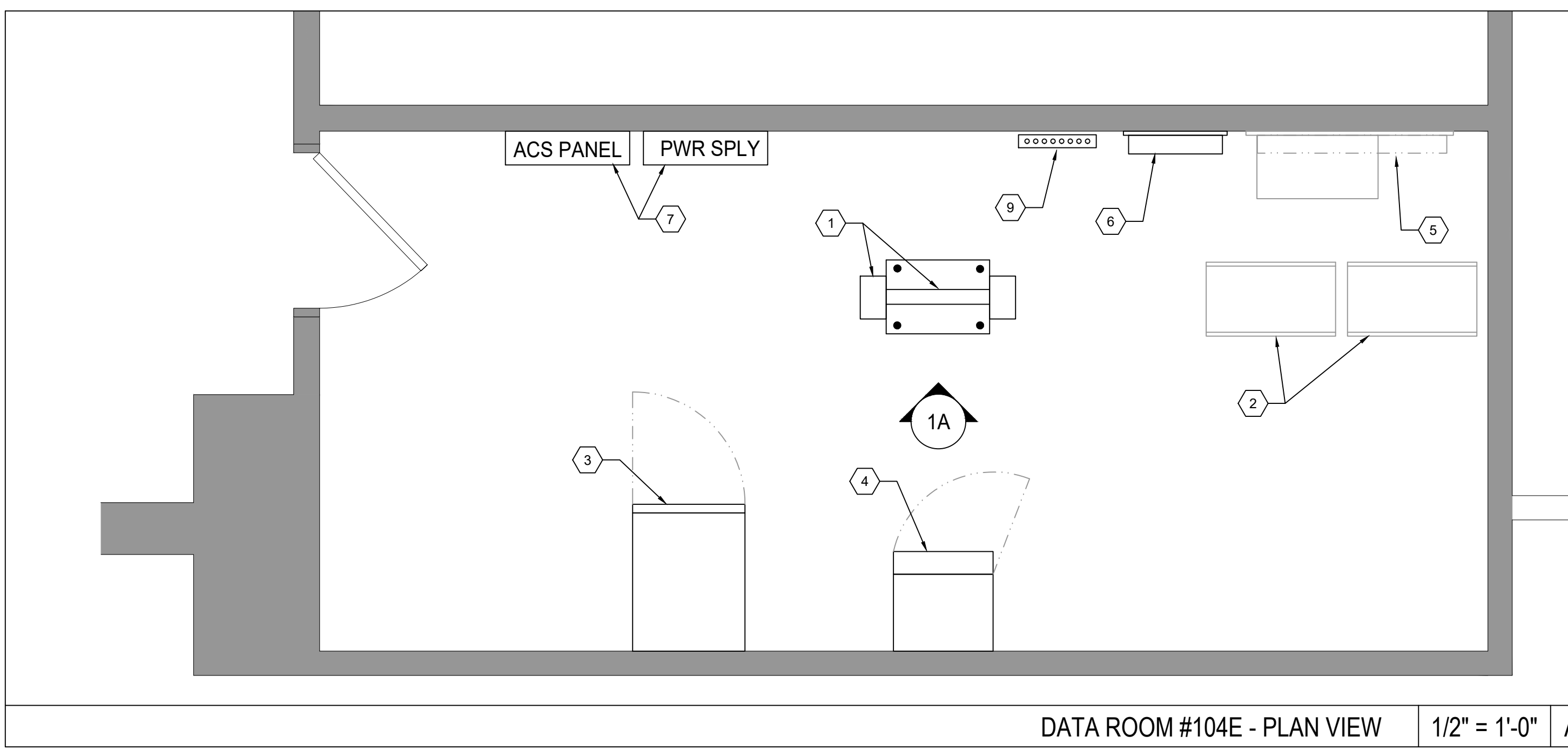
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**TECH-SECURITY
2ND FLOOR PLAN
PART 'C'**

Job No.	2019-1016	Date	08/06/2019
Scale	AS NOTED	Drawn / Checked	JESSICA HUNTER
Sheet Number	T216		





EXISTING RACK - MODIFICATIONS (1)

FIBER CABINET AND ALL FIBER TO REMAIN

HORIZONTAL WIRE MANAGER TO BE RELOCATED AS SHOWN BELOW

REMOVE AND DISCARD BOTH EXISTING VERTICAL WIRE MANAGER. REPLACE WITH 7" ON EACH SIDE

REMOVE AND DISCARD PATCH PANELS AND ALL ASSOCIATED CABLING

EXISTING FIBER, NETWORK SWITCH & HORIZONTAL POWER TO BE RELOCATED TO BELOW THE EXISTING FIBER CABINET SHOWN AT TOP OF THIS RACK.

UPS (NOT SHOWN) TO REMAIN

Photo 2
Secor Lan rack, West wall room 104E

AV CABINETS & DEVICES (2)

REMOVE AND DISCARD OF CABINETS AND ALL EQUIPMENT

Photo 4 - VHS rack west wall room 104E

PHONE WALL CABINET (3)

EXISTING CABINET TO REMAIN IN PLACE

ADD (6) NEW 24 PORT PATCH PANELS FOR COPPER BACKBONE. REFER TO DETAIL C & D THIS SHEET FOR CABLING AND TERMINATIONS

REMOVE AND DISCARD PATCH PANELS AND ALL ASSOCIATED CABLING

UPS TO BE DELIVERED TO STAMFORD BOE

Photo 5. East wall room 104E

SP DEMARC (5)

Photo 3a. Back west wall right side room 104E
Including phone and clock feeds

OBSOLETE EQUIPMENT (6)

REMOVE AND DISCARD 24X BACKER-BOARD, ALL ASSOCIATED CABLING AND ALL EQUIPMENT SHOWN. PATCH AND PAINT WALLS AS REQUIRED.

Photo 3b. Back west wall left side room 104E

EXISTING ACS PANEL (7)

REMOVE, DISCARD AND REPLACE WITH NEW ACS PANEL AS SPECIFIED. SECURITY CONTRACTOR TO DETERMINE IF EXISTING PANELS IS ADEQUATE TO BE RE-USED WITH ACS DEVICES.

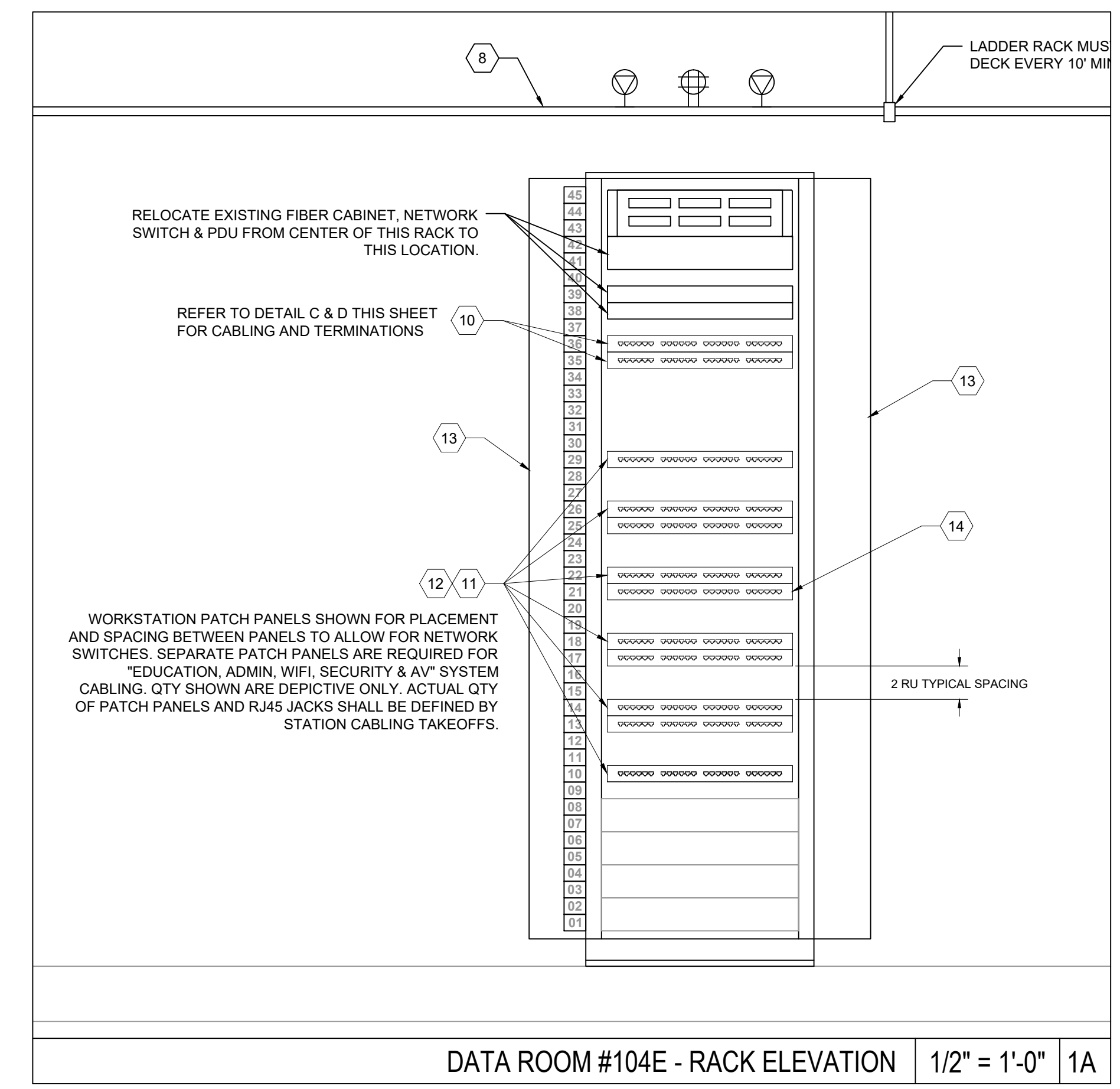
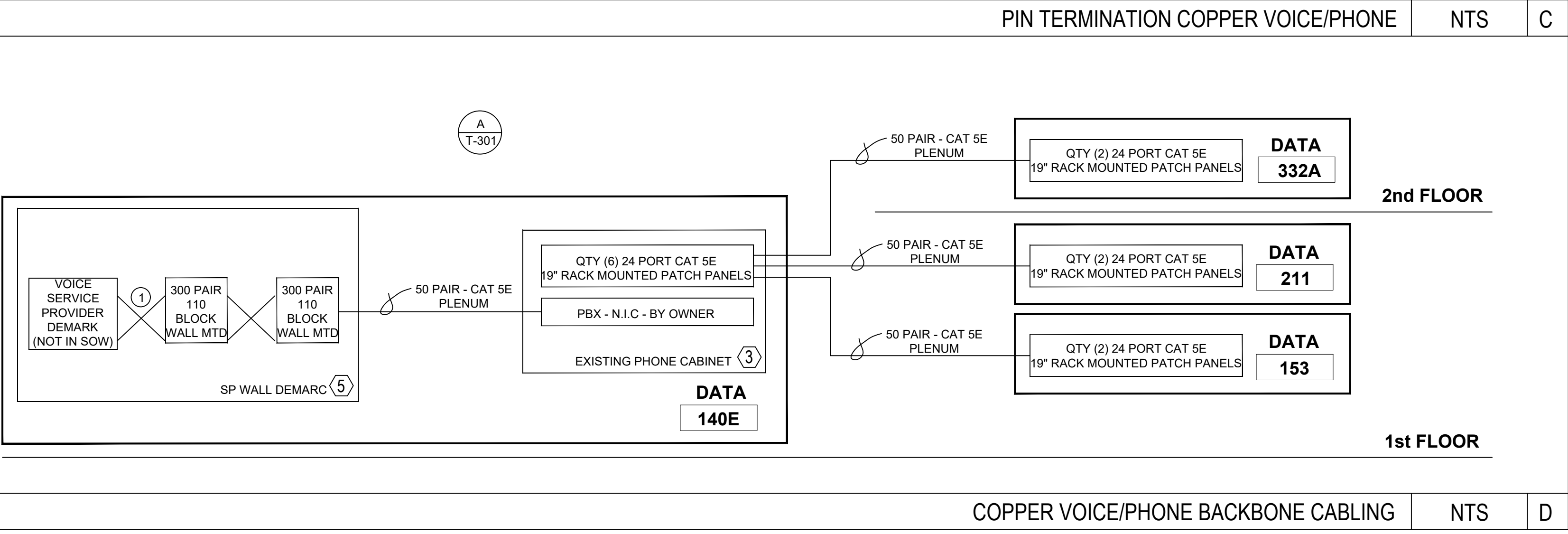
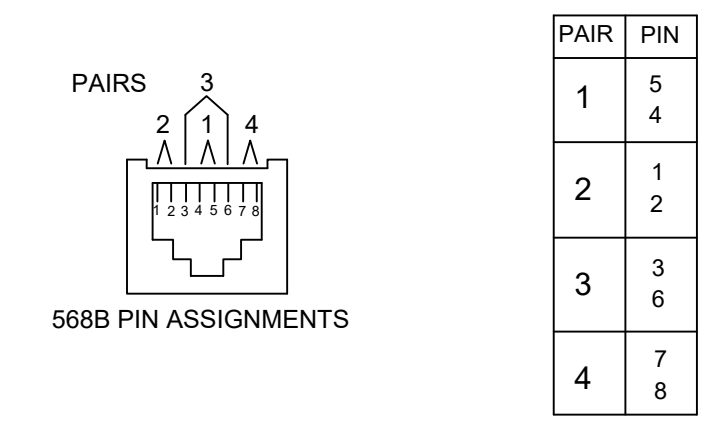
Photo 1
Johnson controls on west wall room 104E

KEYNOTE PICTURES

SPN 135-0278RR

PAIR #	COLOR	24 PORT PATCH PANEL
1	WHITE/BLUE - BLUE/WHITE	JACK 1, PAIR #1
2	WHITE/ORANGE - ORANGE/WHITE	JACK 2, PAIR #1
3	WHITE/GREEN - GREEN/WHITE	JACK 3, PAIR #1
4	WHITE/BROWN - BROWN/WHITE	JACK 4, PAIR #1
5	WHITE/GRAY - GRAY/WHITE	JACK 5, PAIR #1
6	RED/BLUE - BLUE/RED	JACK 6, PAIR #1
7	RED/ORANGE - ORANGE/RED	JACK 7, PAIR #1
8	RED/GREEN - GREEN/RED	JACK 8, PAIR #1
9	RED/BROWN - BROWN/RED	JACK 9, PAIR #1
10	RED/GRAY - GRAY/RED	JACK 10, PAIR #1
11		
11	BLACK/BLUE - BLUE/BLACK	JACK 11, PAIR #1
12	BLACK/ORANGE - ORANGE/BLACK	JACK 12, PAIR #1
13	BLACK/GREEN - GREEN/BLACK	JACK 13, PAIR #1

PAIR #	COLOR	24 PORT PATCH PANEL
14	BLACK/BROWN - BROWN/BLACK	JACK 14, PAIR #1
15	BLACK/GRAY - GRAY/BLACK	JACK 15, PAIR #1
16	YELLOW/BLUE - BLUE/YELLOW	JACK 16, PAIR #1
17	YELLOW/ORANGE - ORANGE/YELLOW	JACK 17, PAIR #1
18	YELLOW/GREEN - GREEN/YELLOW	JACK 18, PAIR #1
19	YELLOW/BROWN - BROWN/YELLOW	JACK 19, PAIR #1
20	YELLOW/GRAY - GRAY/YELLOW	JACK 20, PAIR #1
21	VIOLET/BLUE - BLUE/VIOLET	JACK 21, PAIR #1
22	VIOLET/ORANGE - ORANGE/VIOLET	JACK 22, PAIR #1
23	VIOLET/GREEN - GREEN/VIOLET	JACK 23, PAIR #1
24	VIOLET/BROWN - BROWN/VIOLET	JACK 24, PAIR #1
25	VIOLET/GRAY - GRAY/VIOLET	SPARE - COIL @ PANEL



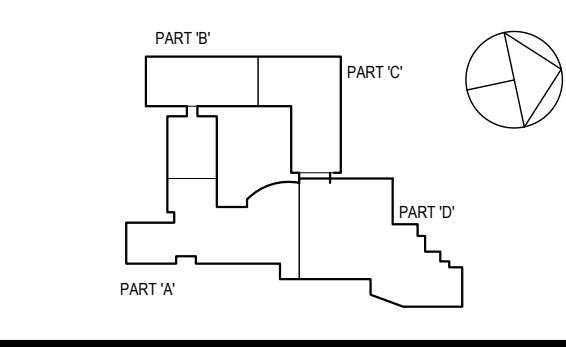
POWER LEGEND - SHOWN AS REFERENCE

⊕ L6-30R, 208V DEDICATED CKT - MOUNTED ONTO LADDER RACK

⊕ NEMA 5-20R DOUBLE-DUPEX, 120V DEDICATED CKT - WALL MOUNTED

- GENERAL NOTES**
- EACH RACK/CABINET IS TO BE SEPARATELY CONNECTED TO THE GROUND BAR USING NO. 6 AWG, GREEN JACKETED CABLE TERMINATED AT BOTH ENDS WITH 2-HOLE LUGS.
 - OVERHEAD HORIZONTAL CABLE TRAY AND VERTICAL LADDER RACK ARE TO BE CONNECTED TO THE GROUND BAR USING NO. 4 AWG, GREEN JACKETED CABLE TERMINATED AT BOTH ENDS WITH 2-HOLE LUGS.
 - ALL SLEEVES AND PENETRATIONS INTO THESE IDF ROOMS SHALL BE FIRE-STOPPED WITH APPROVED FIRE STOPPING MATERIAL.

- KEY NOTES**
- EXISTING 2-POST RACK - TO REMAIN IN ITS EXISTING LOCATION. REMOVE ALL PATCH PANELS, CABLING AND DEVICES AS NOTED.
 - EXISTING AV RACKS & EQUIPMENT. REMOVE AND DISCARD ALL EQUIPMENT, RACKS AND ASSOCIATED CABLING IN ITS ENTIRETY.
 - EXISTING AVAYA PHONE WALL MOUNTED CABINET TO REMAIN. REMOVE AND DISCARD ALL PATCH PANELS AND ASSOCIATED CABLING FOR NEW STAMFORD BOE. THE EXISTING UPS SHALL BE DELIVERED TO THE STAMFORD BOE.
 - PUBLIC ADDRESS WALL CABINET AND EQUIPMENT - INSTALL AT SPECIFIED.
 - EXISTING SERVICE PROVIDER DEMARCATION WALL TO REMAIN.
 - OBSOLETE EQUIPMENT. REMOVE AND DISCARD OF 24X BACKER-BOARD AND ALL EQUIPMENT MOUNTED TO THIS BOARD.
 - ACCESS CONTROL DOOR PANEL. REMOVE AND DISCARD IN ITS ENTIRETY. REPLACE WITH NEW ACS PANEL AND POWER SUPPLY AS REQUIRED TO POWER ACS DOORS AS SPECIFIED IN SECTION 08.
 - NEW 12" WIDE LADDER RACK, CPI #11275-X12 WITH ALL ASSOCIATED MOUNTING HARDWARE - OR EQUIVALENT.
 - GROUNDING BUSS BAR AS SPECIFIED.
 - 24 PORT VOICE DISTRIBUTION PATCH PANEL: CATEGORY 5E, 1RU HUBBELL #HPSE24 or EQUIV.
 - 24 PORT WORKSTATION PATCH PANEL: EMPTY, 1RU HUBBELL #HUDX24E or EQUIV.
 - DATA JACK - COLOR (AS REQUIRED BELOW), CLARITY 6 TRACJACK, T568B COLOR OF RJ45 JACK TO MATCH WORKSTATION END:
- EDUCATION: WHITE
- ADMINISTRATION: BLUE
- VOICE: ORANGE
- WIFI, AV & SECURITY TO BE VERIFIED BY OWNER.
 - 6" WIDE VERTICAL WIRE MANAGEMENT - 84"HIGH - 45 RUs - CPI or EQUIV.
 - NETWORK SWITCHES - PROVIDED BY STAMFORD BOE



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2 8/6/2019 ISSUED FOR BID

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Sheet Title

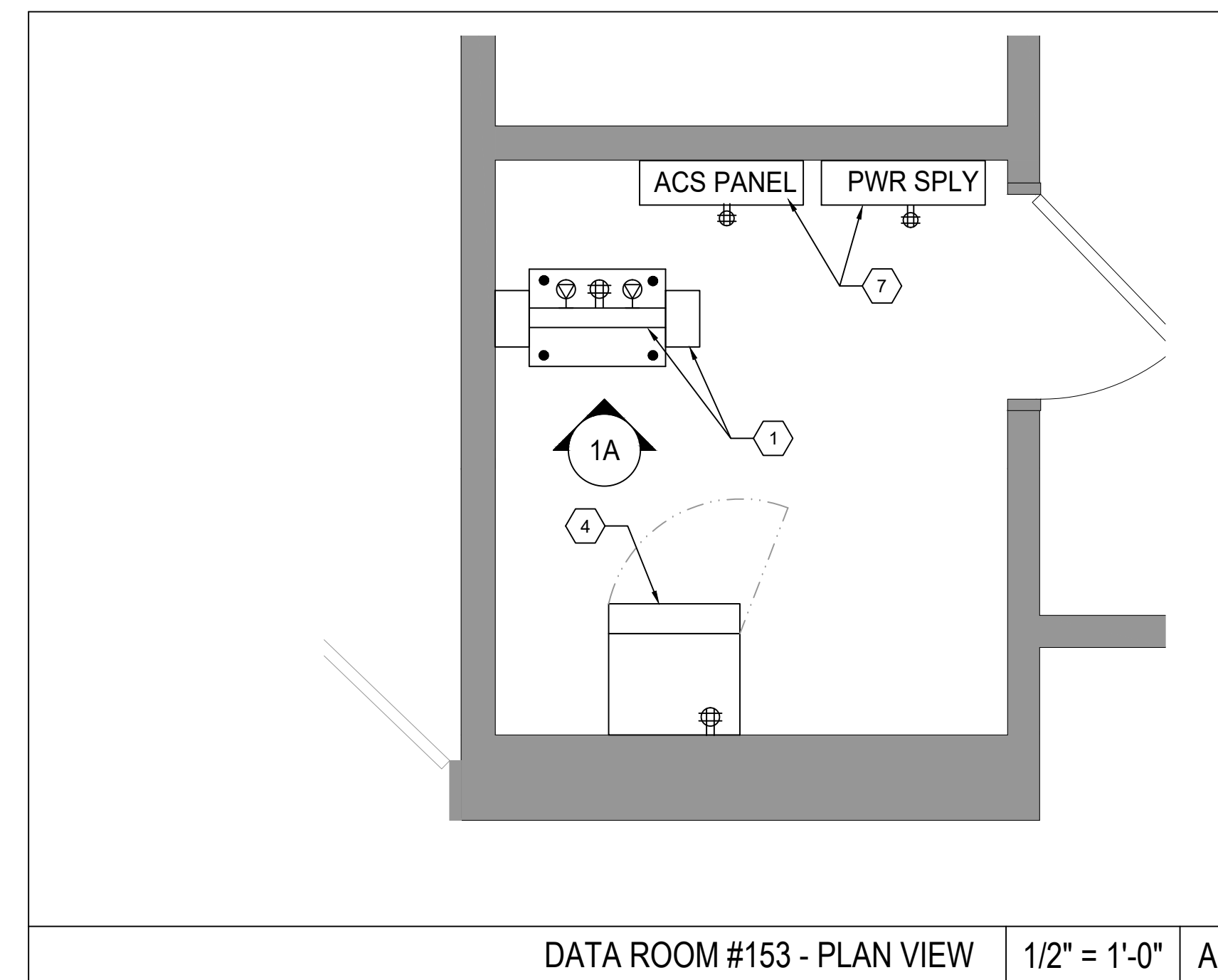
DATA ROOM DETAILS

Job No. 2019-1016 Date 08/06/2019

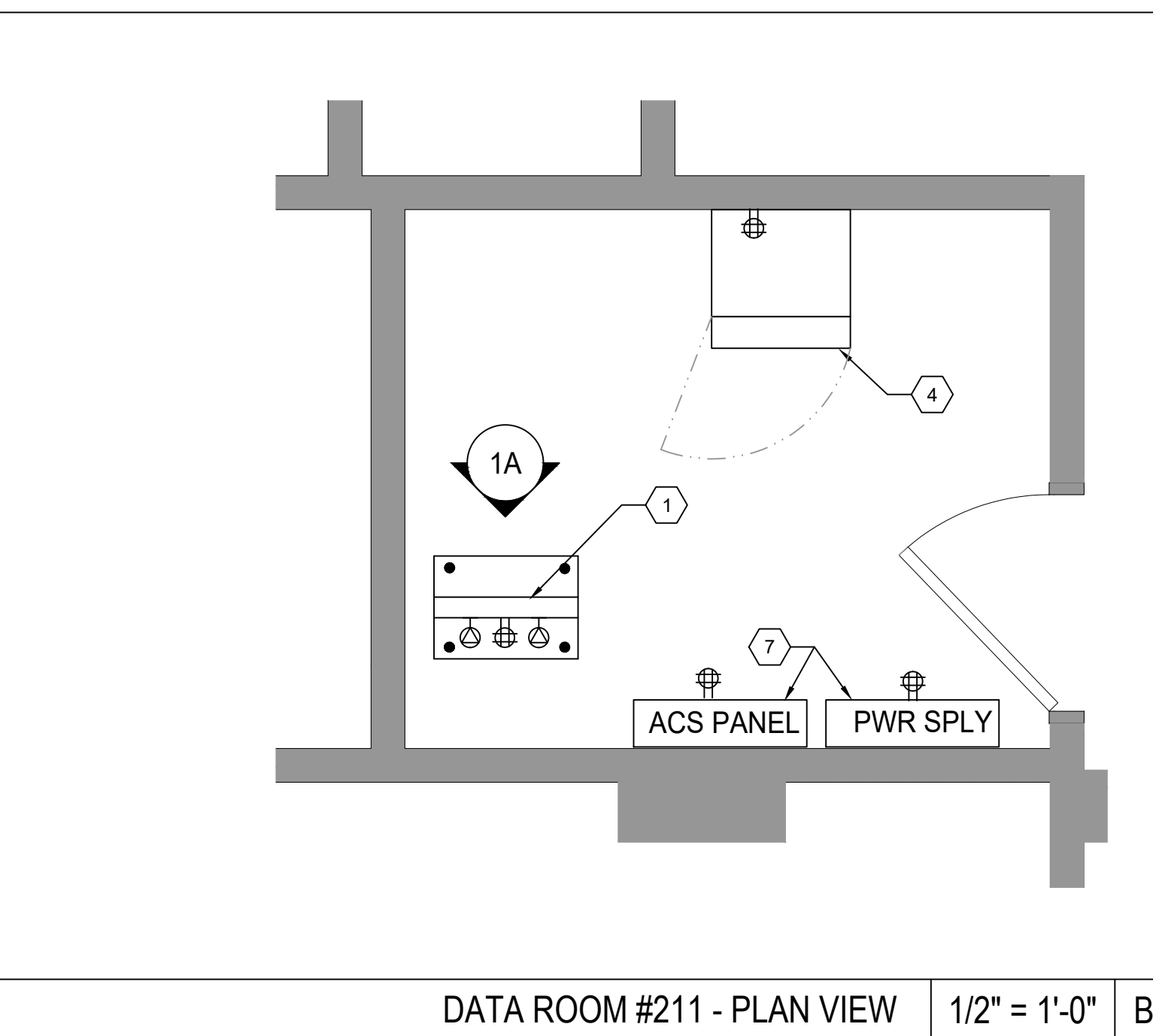
Scale AS NOTED Drawn / Checked JESSICA HUNTER

Sheet Number

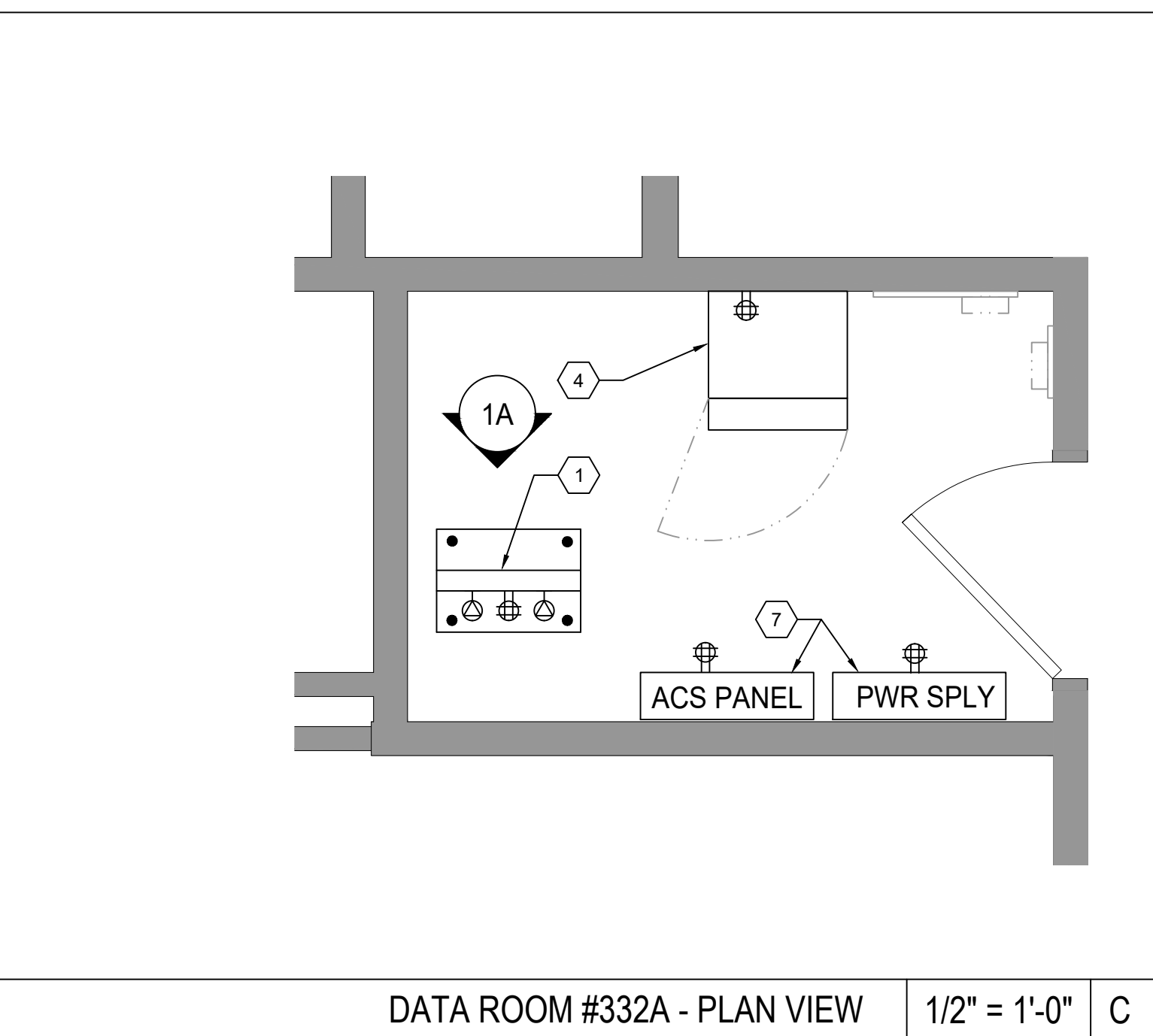
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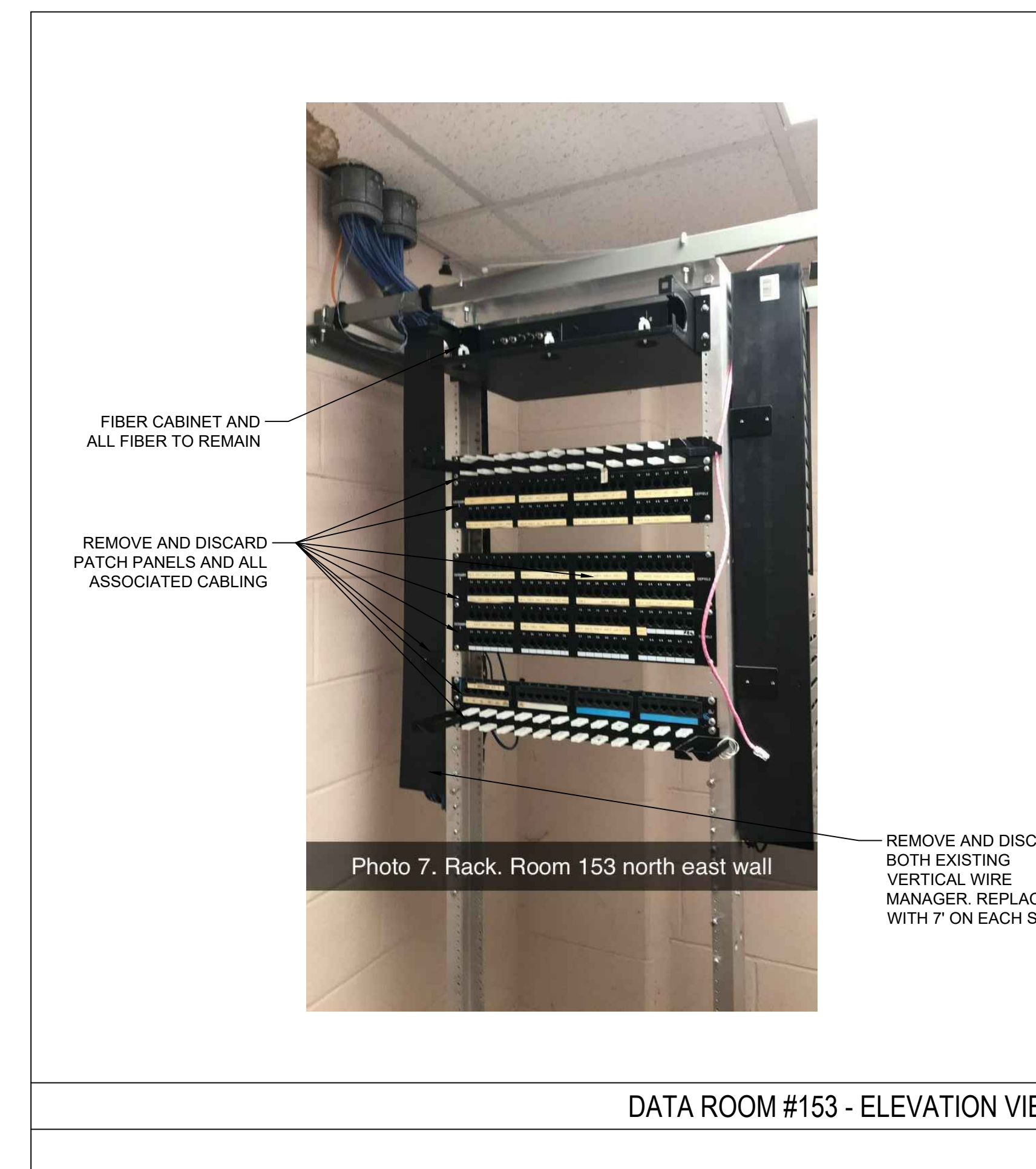
DATA ROOM #153 - PLAN VIEW 1/2" = 1'-0" A



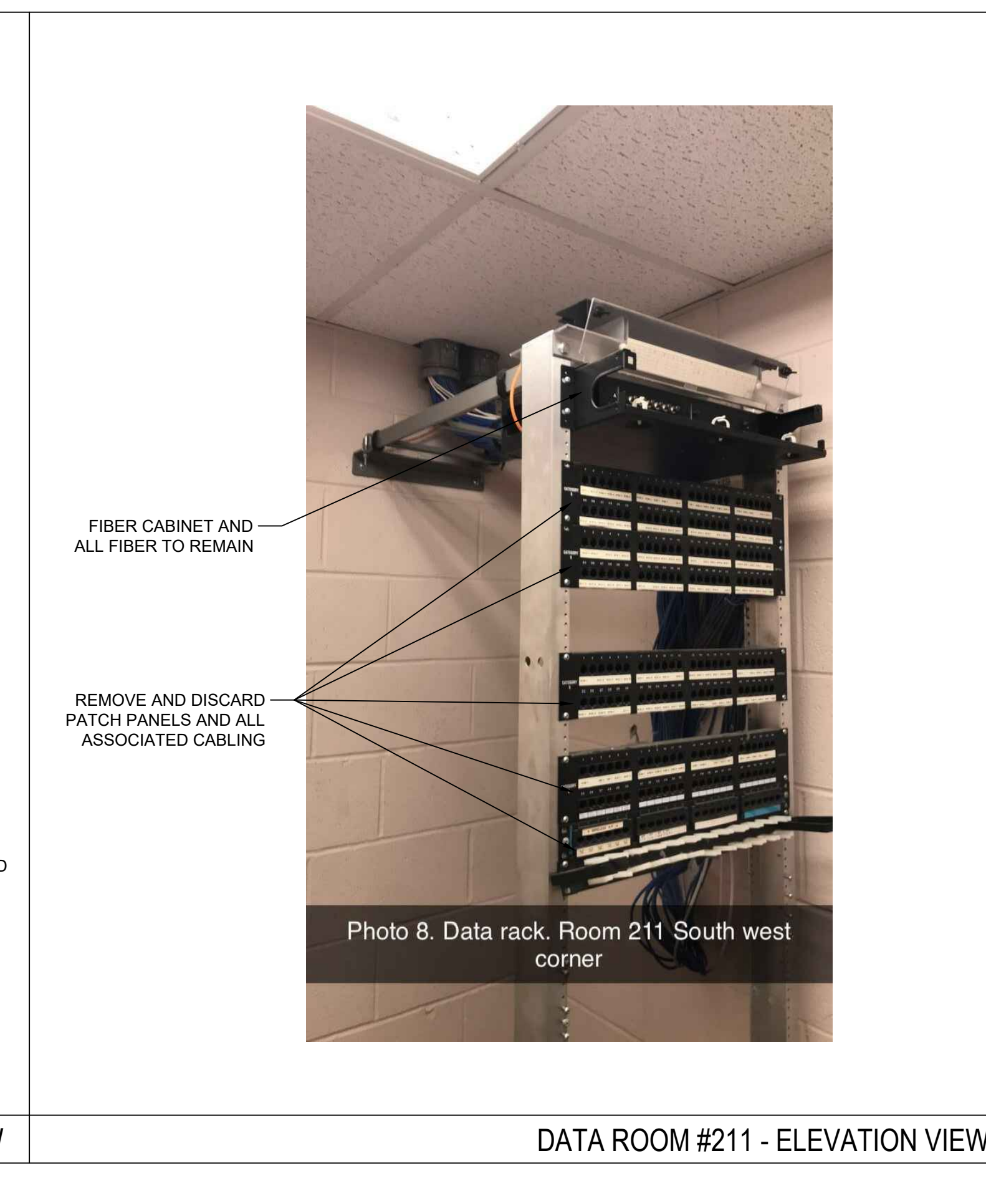
DATA ROOM #211 - PLAN VIEW 1/2" = 1'-0" B



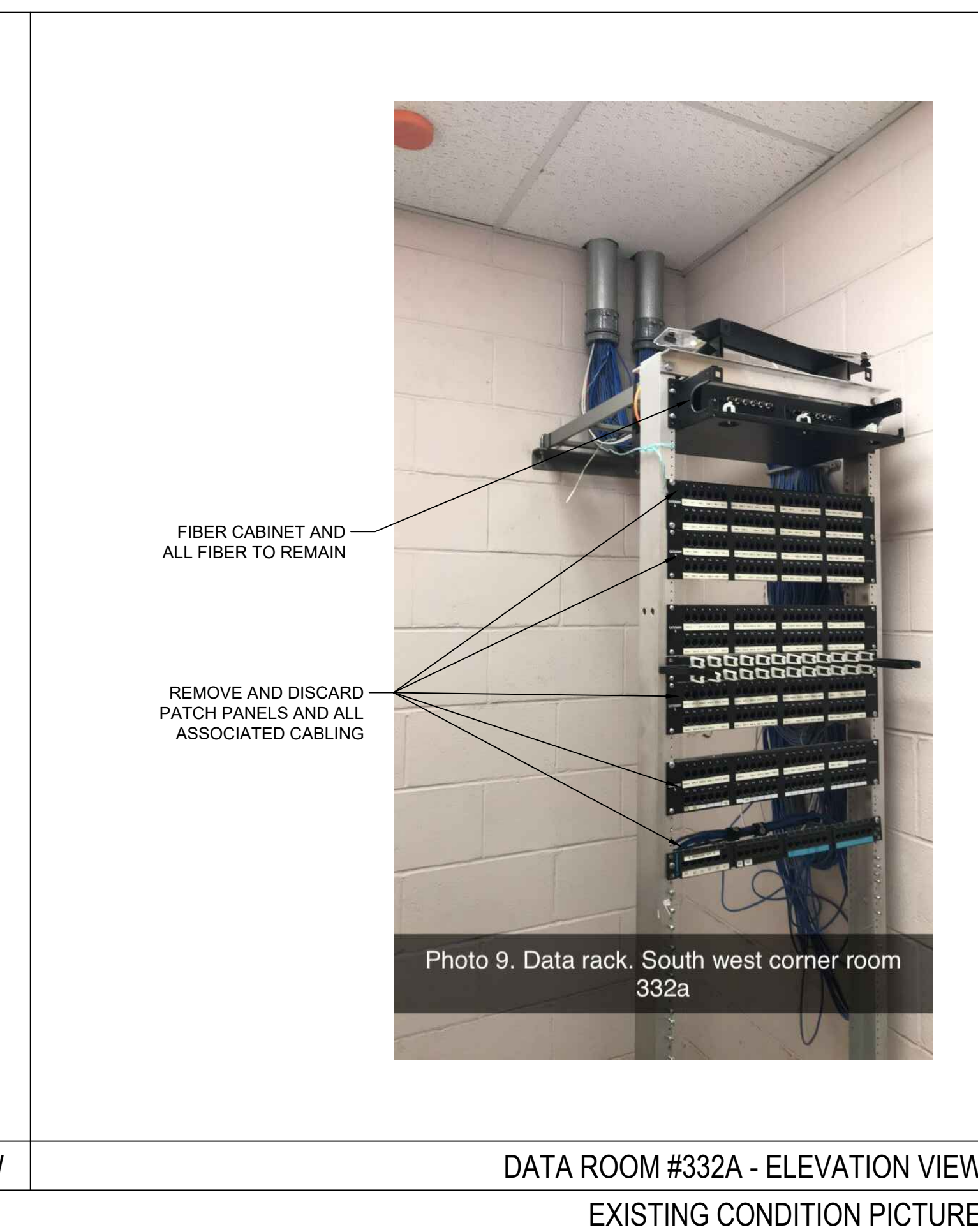
DATA ROOM #332A - PLAN VIEW 1/2" = 1'-0" C



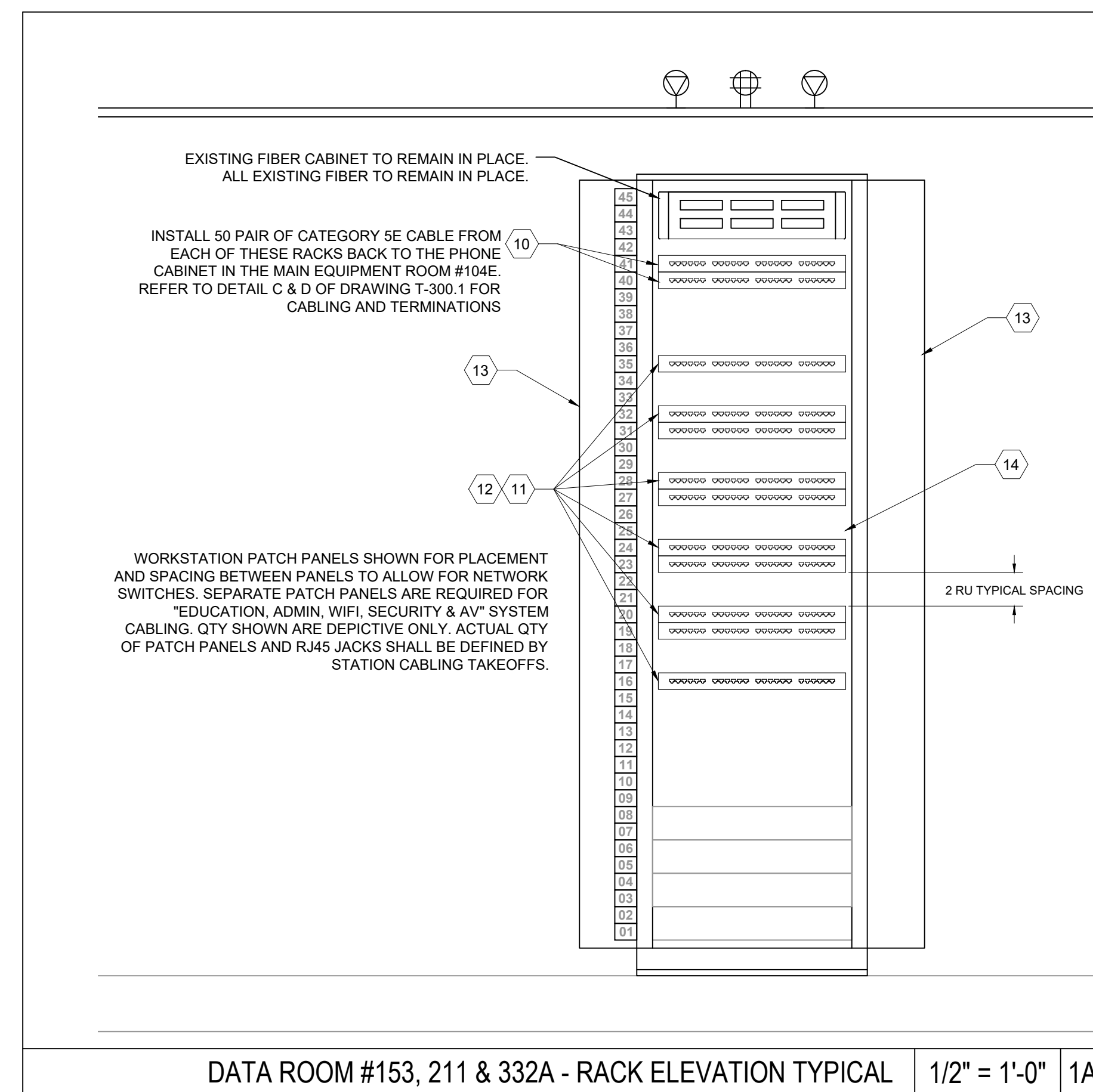
DATA ROOM #153 - ELEVATION VIEW



DATA ROOM #211 - ELEVATION VIEW



DATA ROOM #332A - ELEVATION VIEW
EXISTING CONDITION PICTURES



DATA ROOM #153, 211 & 332A - RACK ELEVATION TYPICAL 1/2" = 1'-0" 1A

- POWER LEGEND - SHOWN AS REFERENCE**
- ⊕ L6-30R, 208V DEDICATED CKT - MOUNTED ONTO LADDER RACK
 - ⊕ NEMA 5-20R DOUBLE-POLE, 120V DEDICATED CKT - WALL MOUNTED

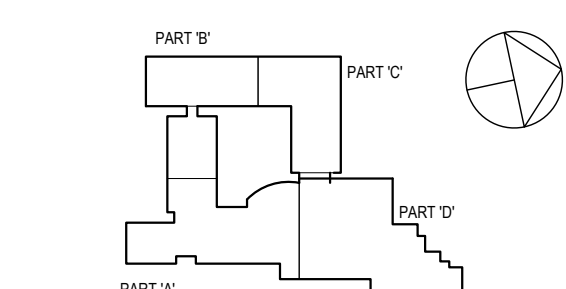
GENERAL NOTES

- 1 EACH RACK/CABINET IS TO BE SEPARATELY CONNECTED TO THE GROUND BAR USING No. 6 AWG, GREEN JACKETED CABLE TERMINATED AT BOTH ENDS WITH 2-HOLE LUGS.
- 2 OVERHEAD HORIZONTAL CABLE TRAY AND VERTICAL LADDER RACK ARE TO BE CONNECTED TO THE GROUND BAR USING No. 4 AWG, GREEN JACKETED CABLE TERMINATED AT BOTH ENDS WITH 2-HOLE LUGS.
- 3 ALL SLEEVES AND PENETRATIONS INTO THESE IDF ROOMS SHALL BE FIRE-STOPPED WITH APPROVED FIRE STOPPING MATERIAL.

KEY NOTES

- 1 EXISTING 2-POST RACK - TO REMAIN IN ITS EXISTING LOCATION. REMOVE ALL PATCH PANELS, CABLING AND DEVICES AS NOTED.
- 2 EXISTING AV RACKS & EQUIPMENT. REMOVE AND DISCARD ALL EQUIPMENT, RACKS AND ASSOCIATED CABLING IN ITS ENTIRETY.
- 3 EXISTING AVAYA PHONE WALL MOUNTED CABINET. REMOVE AND DISCARD ALL PATCH PANELS AND ASSOCIATED CABLING. THE UPS AND WALL CABINET SHALL BE DELIVERED TO THE STAMFORD BOE, AS NOTED.
- 4 PUBLIC ADDRESS WALL CABINET AND EQUIPMENT - INSTALL AT SPECIFIED.
- 5 EXISTING SERVICE PROVIDER DEMARCATION WALL TO REMAIN.
- 6 OBSOLETE EQUIPMENT. REMOVED AND DISCARD OF 2X4 BACKER-BOARD AND ALL EQUIPMENT MOUNTED TO THIS BOARD.
- 7 ACCESS CONTROL DOOR PANEL. REMOVE AND DISCARD IN ITS ENTIRETY. REPLACE WITH NEW ACS PANEL AND POWER SUPPLY AS SPECIFIED.
- 8 NEW 12" WIDE LADDER RACK. CPI #11275-X12 WITH ALL ASSOCIATED MOUNTING HARDWARE - OR EQUIVALENT.
- 9 GROUNDING BUSS BAR AS SPECIFIED.
- 10 24 PORT VOICE DISTRIBUTION PATCH PANEL. CATEGORY 5E, 1RU HUBBELL #HPSE24 or EQUIV.
- 11 24 PORT WORKSTATION PATCH PANEL. EMPTY, 1RU HUBBELL #HUDX24E or EQUIV.
- 12 DATA JACK - COLOR (AS REQUIRED BELOW), CLARITY 6 TRACJACK, T568B COLOR OF RJ45 JACK TO MATCH WORKSTATION END:
- EDUCATION: WHITE
- ADMINISTRATION: BLUE
- VOICE: ORANGE
- WIFI, AV & SECURITY TO BE VERIFIED BY OWNER.
- 13 6" WIDE VERTICAL WIRE MANAGEMENT - 84" HIGH - 45 RU'S - CPI or EQUIV.
- 14 NETWORK SWITCHES - PROVIDED BY STAMFORD BOE

SPN 135-0278RR



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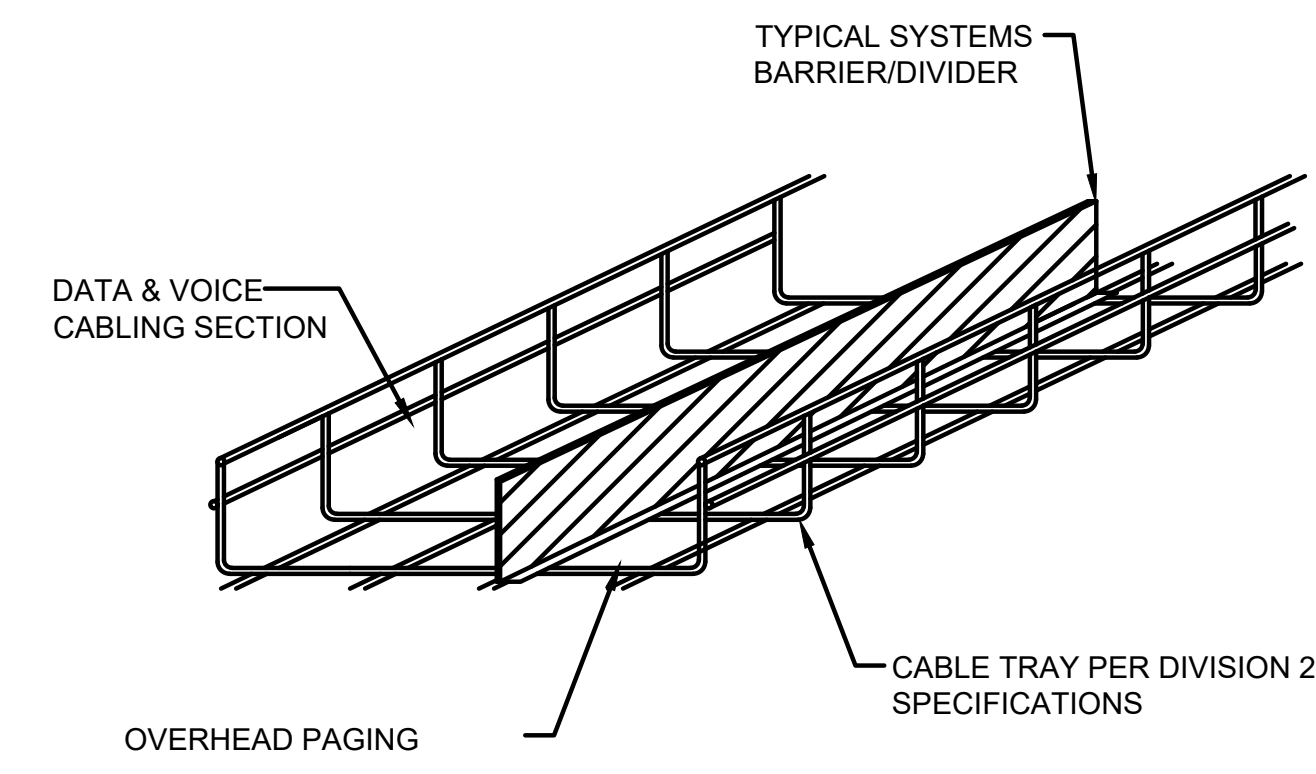
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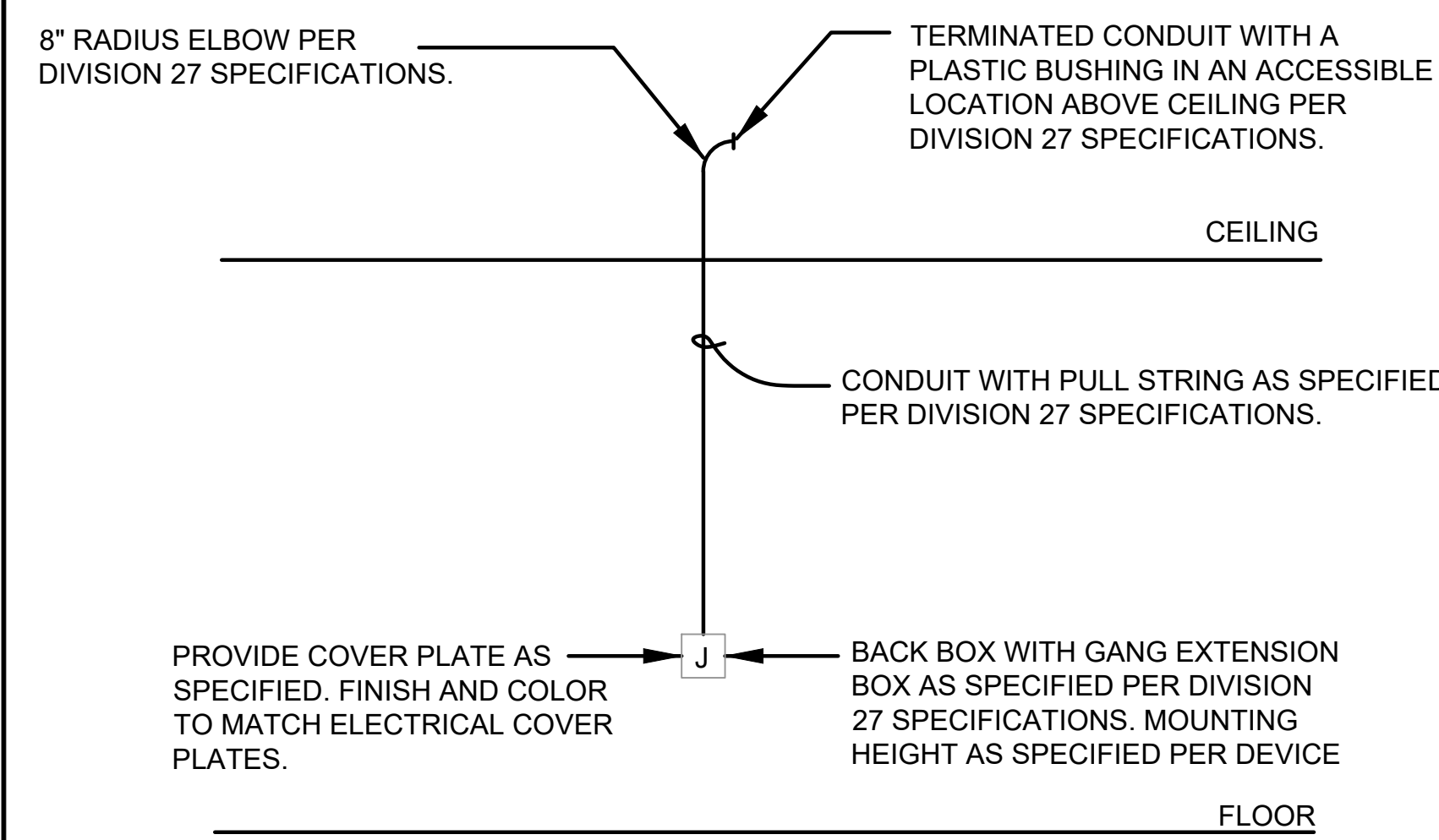
Sheet Title	Date	Issued For
2	8/6/2019	ISSUED FOR BID
1	7/25/2019	CLIENT REVIEW SET

DATA ROOM DETAILS	
Job No.	2019-1016
Date	08/06/2019
Scale	AS NOTED
Drawn / Checked	JESSICA HUNTER
Sheet Number	T-300.2



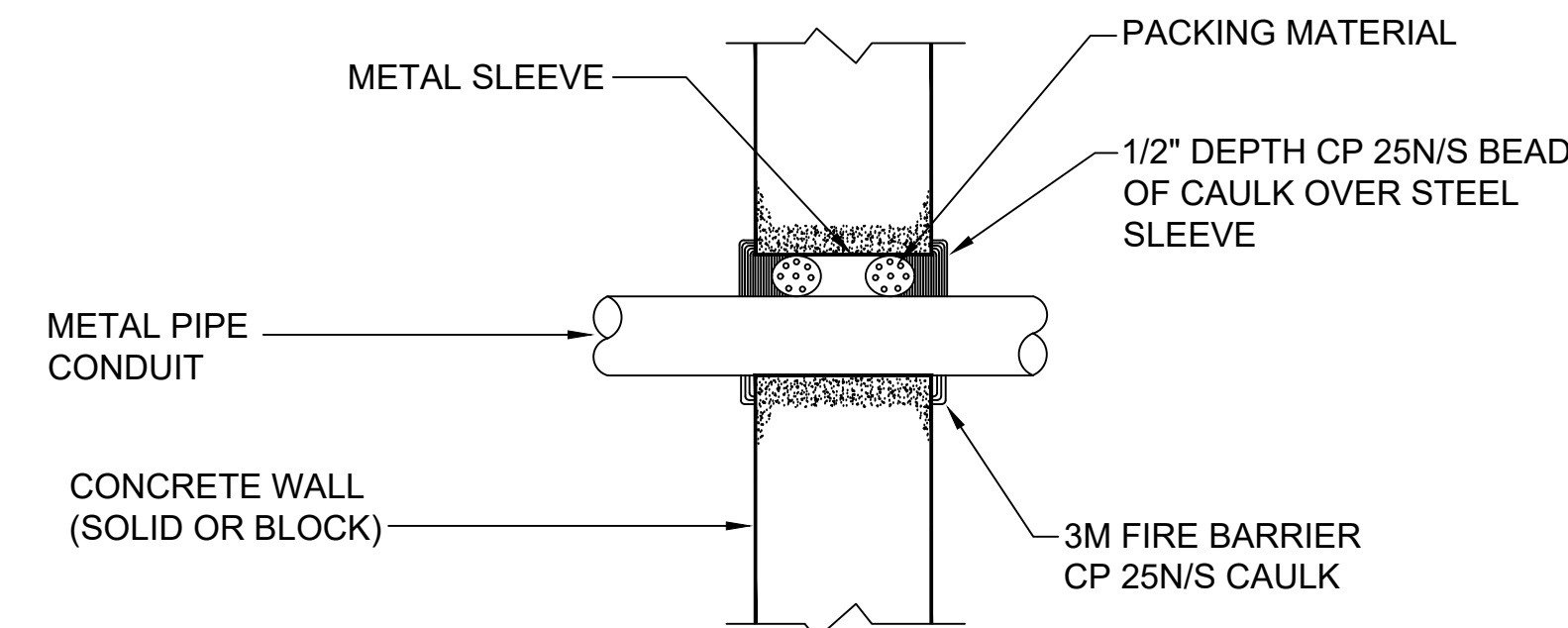
ALL OF THE CORRIDORS CURRENTLY HAVE EXISTING CABLE TRAY INSTALLED DOWN THE CENTER OF THE CORRIDOR. IF THIS CABLE TRAY IS TO SUPPORT ANY ELECTRICAL CIRCUITS, A SECOND BARRIER/DIVIDER MUST BE INSTALLED TO KEEP ALL CABLING SEPARATED.

1 PRIMARY PATHWAY - CABLE TRAY DETAIL
SCALE: NONE



NOTE:
1. PENETRATIONS IN STAIRWELLS ARE TO BE SEALED WITH A RATED SEALANT. SEE DETAIL 3 THIS SHEET.

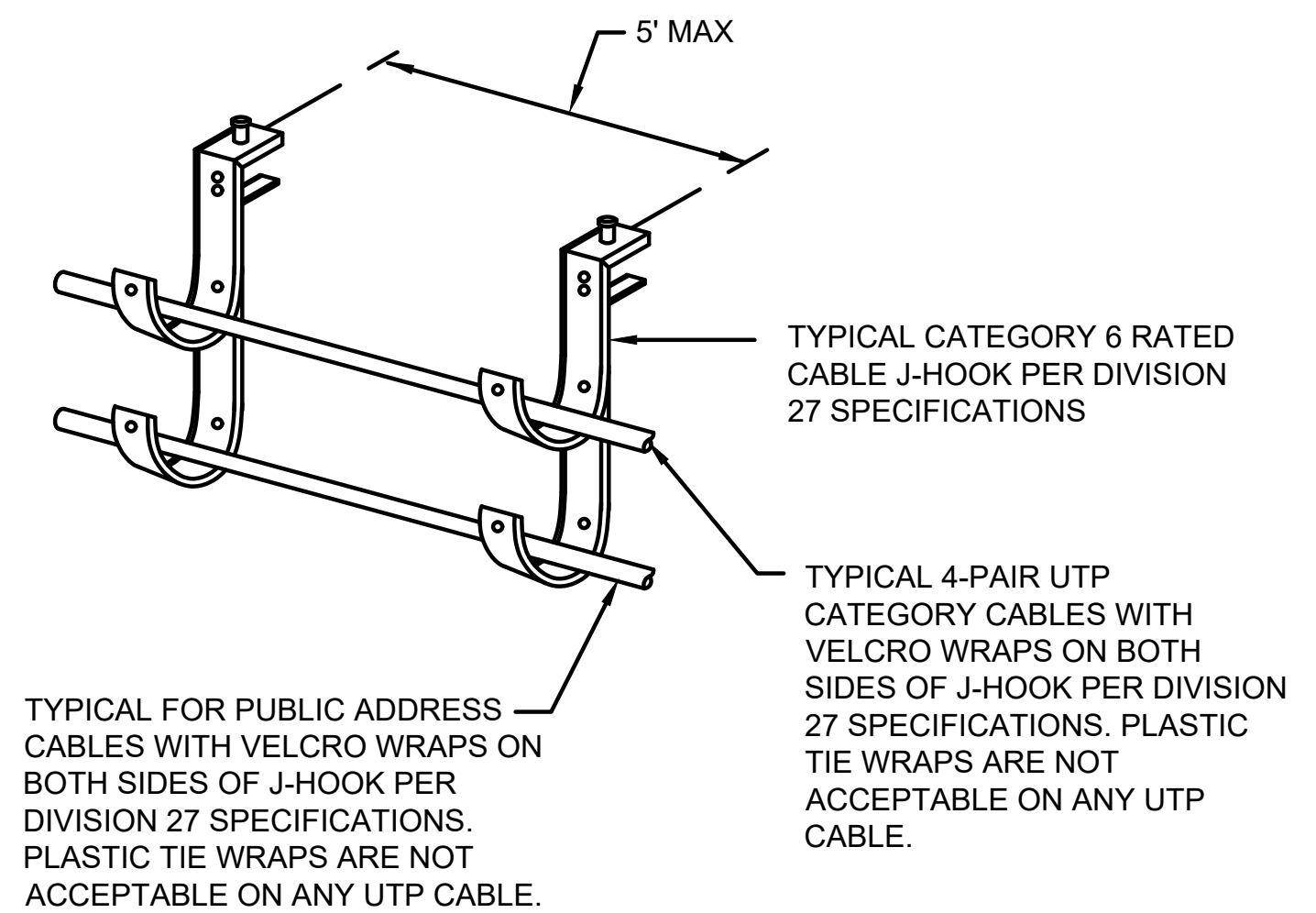
2 VOICE/DATA/AUDIO/VIDEO TYP OUTLET RECESSED RACEWAY DETAIL
SCALE: NONE



NO DRAWING ISSUED - ONLY VERBIAGE IN ADD-2

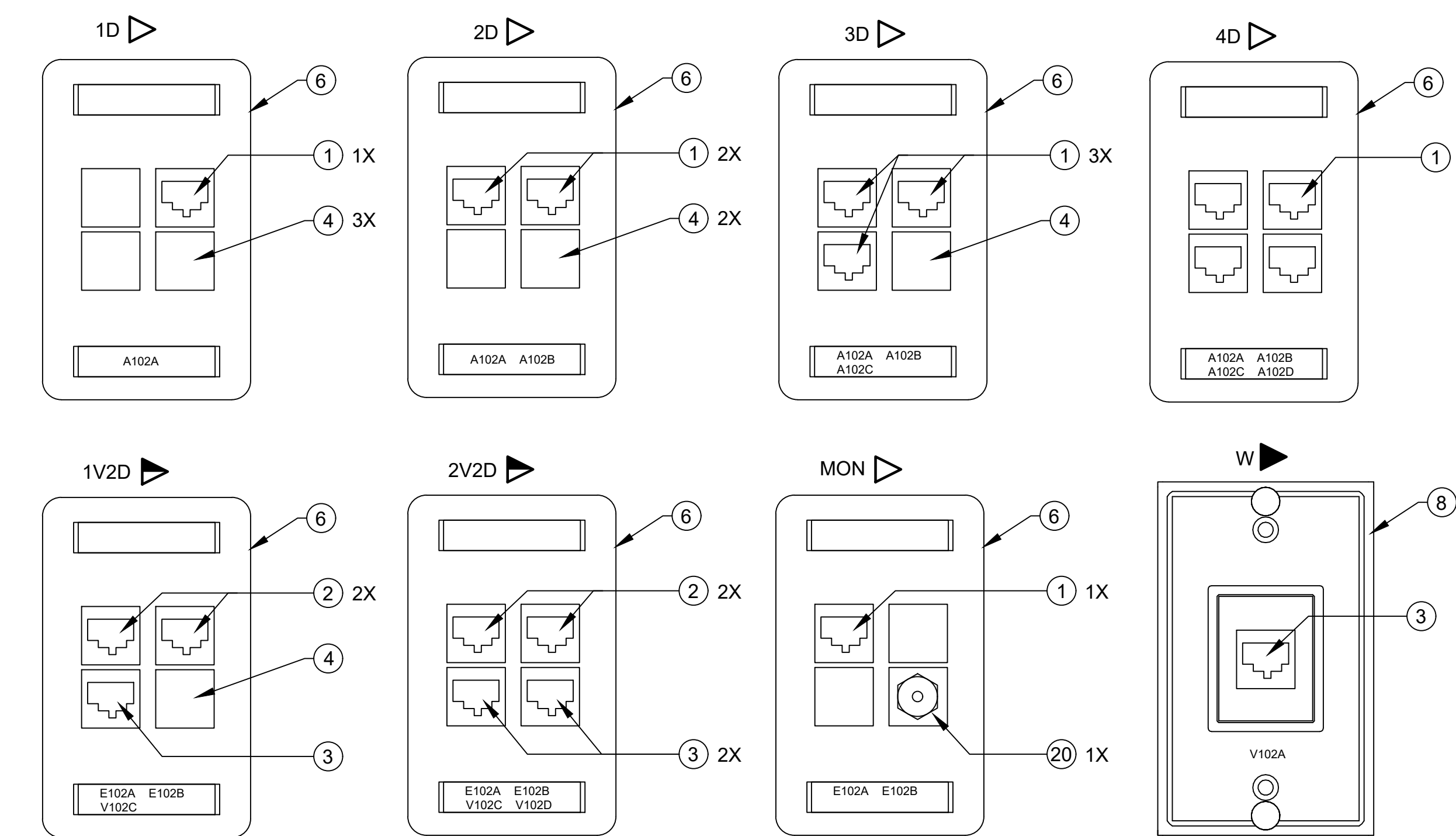
NOTES:
1. FIRESTOP SHALL BE INSTALLED ON ALL WALL AND FLOOR PENETRATIONS WHEN THE WALL SPANS FLOOR TO FLOOR AND/OR ROOM TO ROOM.
2. FIRESTOP ASSEMBLY AND INSTALLATION MUST MEET OR EXCEED THE WALL RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR WALL AND FLOOR RATINGS.
3. INSTALLATION CONTRACTOR SHALL PROVIDE TECHNICAL BULLETINS FOR ALL FIRE STOPPING TO BE INSTALLED.

3 PENETRATION FIRESTOP DETAIL
SCALE: NONE



TYPICAL FOR PUBLIC ADDRESS CABLES WITH VELCRO WRAPS ON BOTH SIDES OF J-HOOK PER DIVISION 27 SPECIFICATIONS. PLASTIC TIE WRAPS ARE NOT ACCEPTABLE ON ANY UTP CABLE.

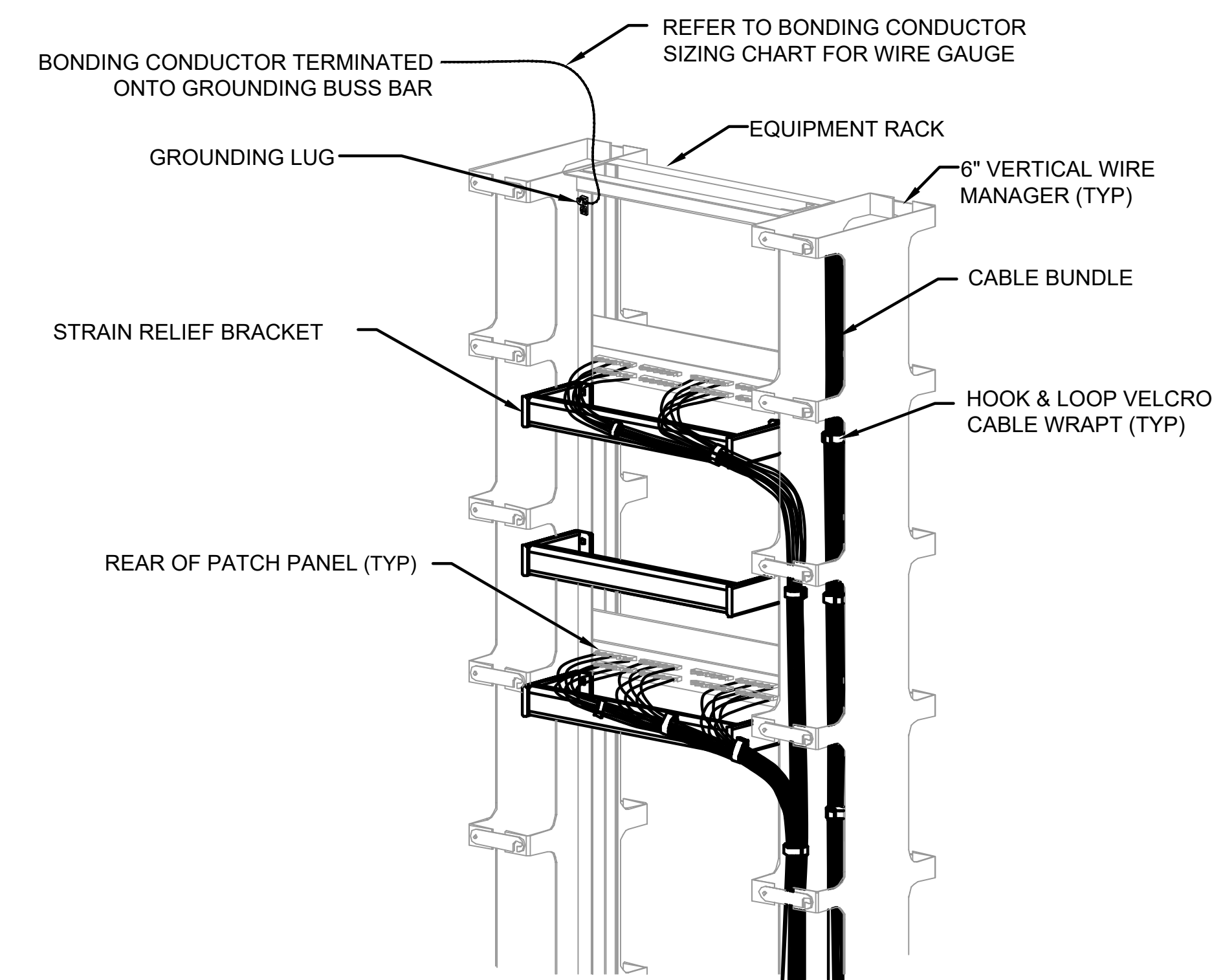
4 TYPICAL VOICE/DATA J-HOOK INSTALLATION
SCALE: NONE



PRODUCT DESCRIPTION		
ITEM	DESCRIPTION	MANUFACTURER #
1	DATA JACK - COLOR (WHITE), CLARITY 6 TRACJACK, T568B - EDUCATION	HUBBELL #HXJ6W
2	DATA JACK - COLOR (BLUE), CLARITY 6 TRACJACK, T568B - ADMIN	HUBBELL #HXJ6B
3	DATA JACK - COLOR (ORANGE), CLARITY 6 TRACJACK, T568B - VOICE	HUBBELL #HXJ6O
4	BLANK INSERT	HUBBELL #SFB10
5	SINGLE GANG FACEPLATE, TWO-PORT OPENING	HUBBELL #IFP120W
6	SINGLE GANG FACEPLATE, FOUR-PORT OPENING	HUBBELL #IFP140W
7	106 TYPE FRAME TO MOUNT DATA JACKS	HUBBELL #Q1060
8	WALL MOUNTING, PHONE PLATE	HUBBELL #P630S1G
9	RJ45 PLUG FOR WIRELESS ACCESS POINT, CATEGORY 6, T568B	HUBBELL #BRMOD4PSN25
10	DUAL GANG FACEPLATE	HUBBELL #IMF2xx
11	VGA WITH 3.5MM OVER 110	HUBBELL #IM15311015W
12	3.5 mm STEREO JACK	HUBBELL #SF35FFW
13	KEYSTONE FLAT 2-PORT 1 UNIT	HUBBELL #IM2K1W
14	HDMI FEMALE CONNECTOR	HUBBELL #SFHC14
15	DATA JACK (GREEN), CLARITY 6 TRACJACK, T568B - FOR USB	HUBBELL #HXJ6G
16	KEYSTONE FLAT, 2-PORT, 1 UNIT HIGH	HUBBELL #IM1K1XX
17	CLASSROOM AV VOLUME CONTROL	OWI #MC4
18	IN WALL AUDIO VIDEO BOX WITH FLANGE 9" x 14.25" x 3.9" - COLOR: WHITE	CHIEF #PAC525FW
19	KEYSTONE FLAT 1-PORT 1 UNIT	HUBBELL #IM1K1W
20	KEYSTONE "F" CONNECTOR PASS-THRU COUPLER, 1-PORT 1 UNIT	HUBBELL #SFFBX

NOTES:

- 2-POST RACK SHOWN IN ILLUSTRATION BUT SAME DETAIL APPLIES TO ALL WALL MOUNTED RACKS AND CABINETS (TYP)
- PROVIDE VELCRO CABLE WRAPS MINIMUM 12" CENTERS IN VERTICAL WIRE MANAGERS.
- CABLES SHALL BE BUNDLED INTO LOGICAL GROUPS, CABLES SHALL BE SECURED TO STRAIN RELIEF BRACKET.
- ATTACH CABLE LABEL BETWEEN STRAIN RELIEF BRACKET AND PATCH PANEL SO THAT LABEL CAN BE READ AND CORRELATED TO PATCH PANEL PORT WITHOUT UNBUNDLING ADJACENT CABLES.
- ROUTE ALL CABLE BUNDLES TO AVOID SHARP BENDS AND PINCH POINTS. ALLOW LATCH OPERATION ON VERTICAL WIRE MANAGERS.
- STRAIN RELIEF BRACKET SHALL BE A MINIMUM OF 6" BEHIND PATCH PANEL.



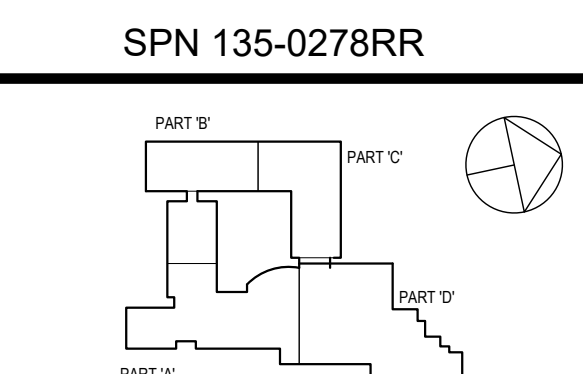
BONDING CONDUCTOR SIZING CHART		
LENGTH (FEET)	SIZE (AWG)	
LESS THAN (<) 13'	# 6	# 4
14' - 20'	# 4	# 3
21' - 26'	# 3	# 2
27' - 33'	# 2	# 1
34' - 41'	# 1	# 1/0
42' - 52'	# 1/0	# 2/0
53' - 66'	# 2/0	# 3/0
GREATER THAN (>) 66'	# 3/0	

LABELING REQUIREMENTS

- ALL LABELING SHALL BE DESCRIBED BY THE OWNER PRIOR TO INSTALLATION.

5 COMMUNICATION OUTLET CONFIGURATION
SCALE: NONE

6 CABLE STRAIN RELIEF DETAIL
SCALE: NONE



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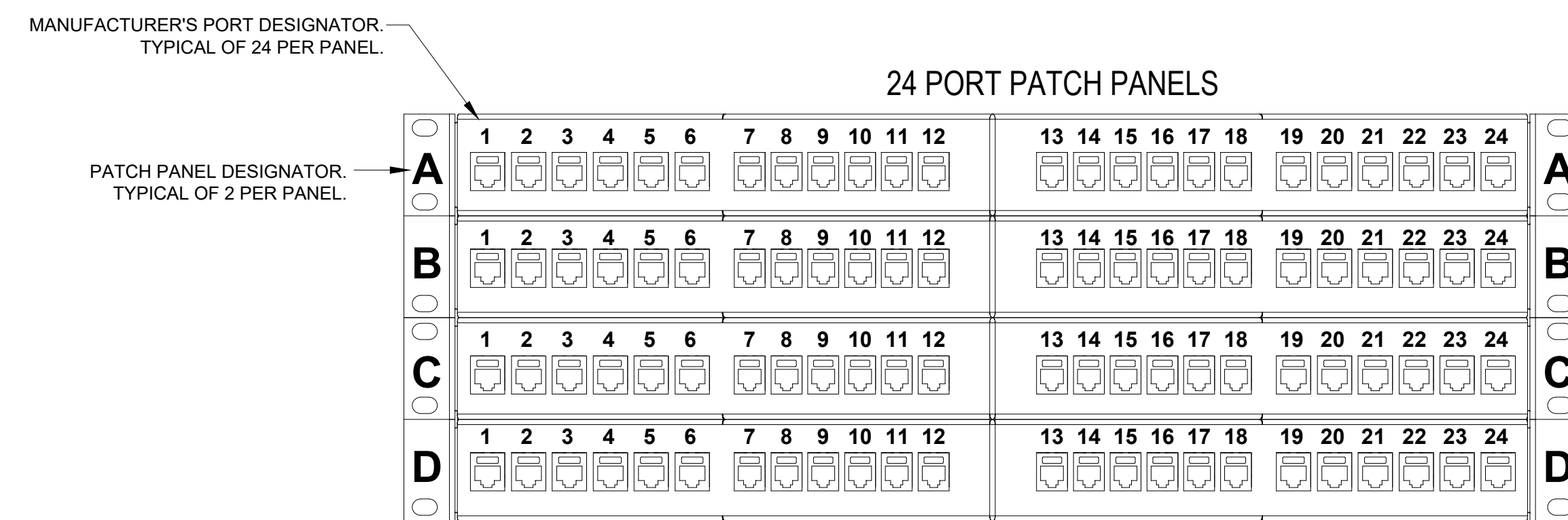
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Rev	Date	Description
1	7/25/2019	CLIENT REVIEW SET
2	8/6/2019	ISSUED FOR BID

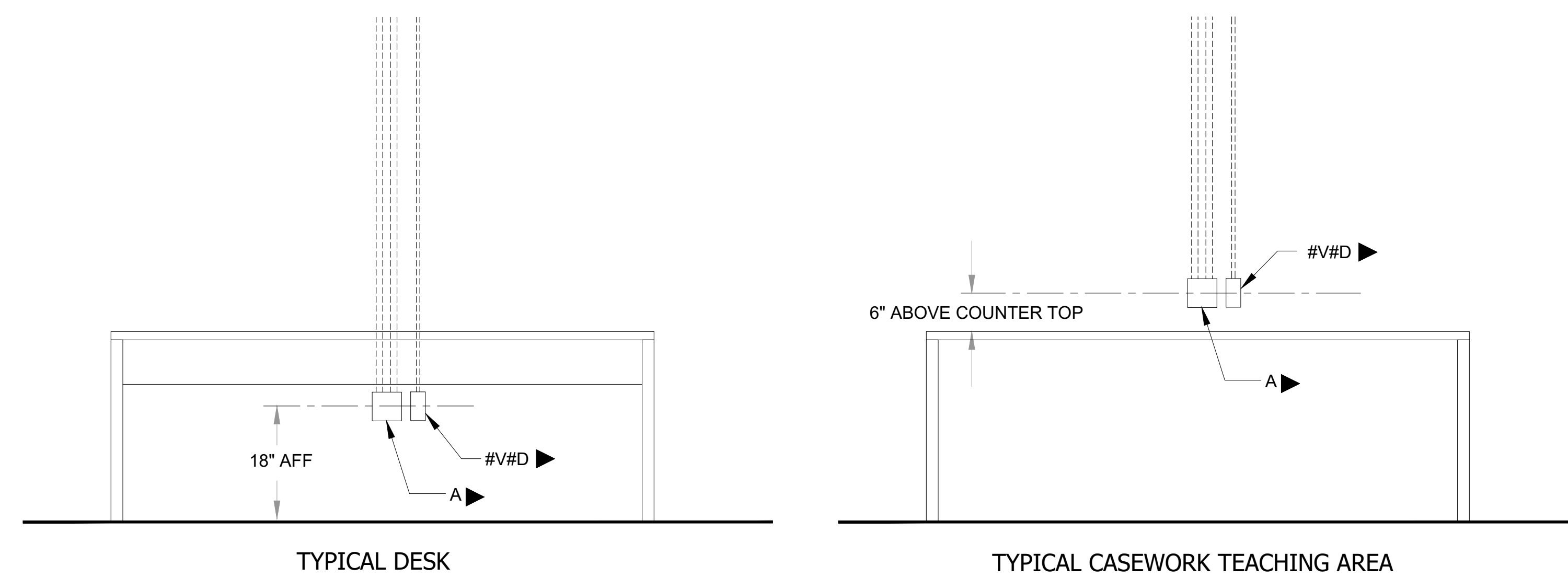
DETAILS AND OUTLET CONFIGURATIONS

Job No.	Date
2019-1016	08/06/2019
Scale	Drawn / Checked
AS NOTED	JESSICA HUNTER
Sheet Number	

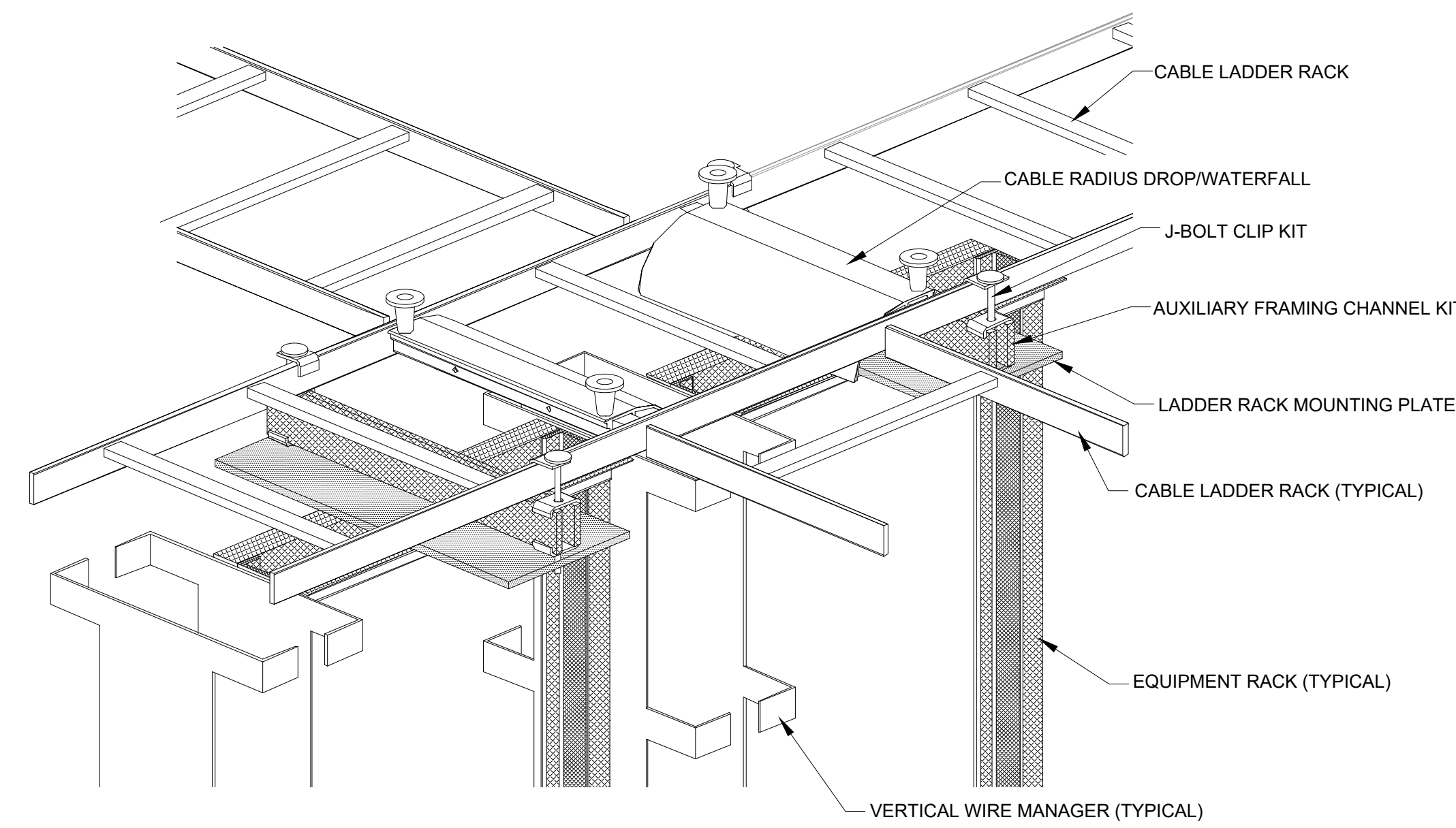


- NOTES:
1. LABEL PATCH PANELS FROM TOP TO BOTTOM AS: "A", "B", "C", "D" AS REQUIRED. REQUIRED ON LEFT AND RIGHT SIDE OF PATCH PANEL AS SHOWN.
 2. CONTRACTOR MUST CONFIRM LABELING SCHEME WITH THE OWNER PRIOR TO TESTING AND FINAL LABELING OF ALL VOICE, DATA, SECURITY AND AUDIO VISUAL CABLING.

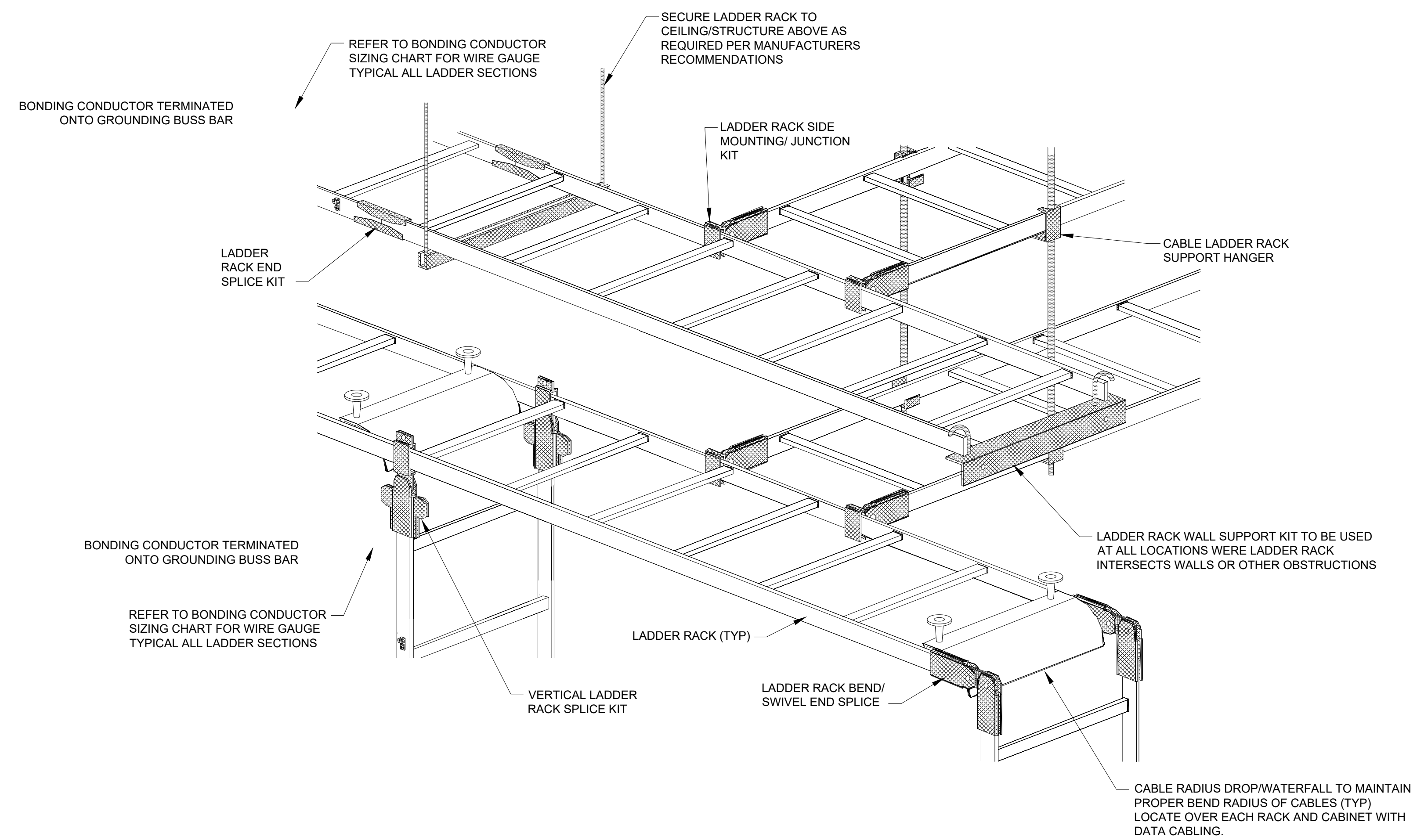
1 COMMUNICATION PATCH PANEL - DATA LABELING
SCALE: NONE



2 TYP ELEVATION - TEACHERS OUTLET CONFIGURATION
SCALE: 3/4" = 1'0"



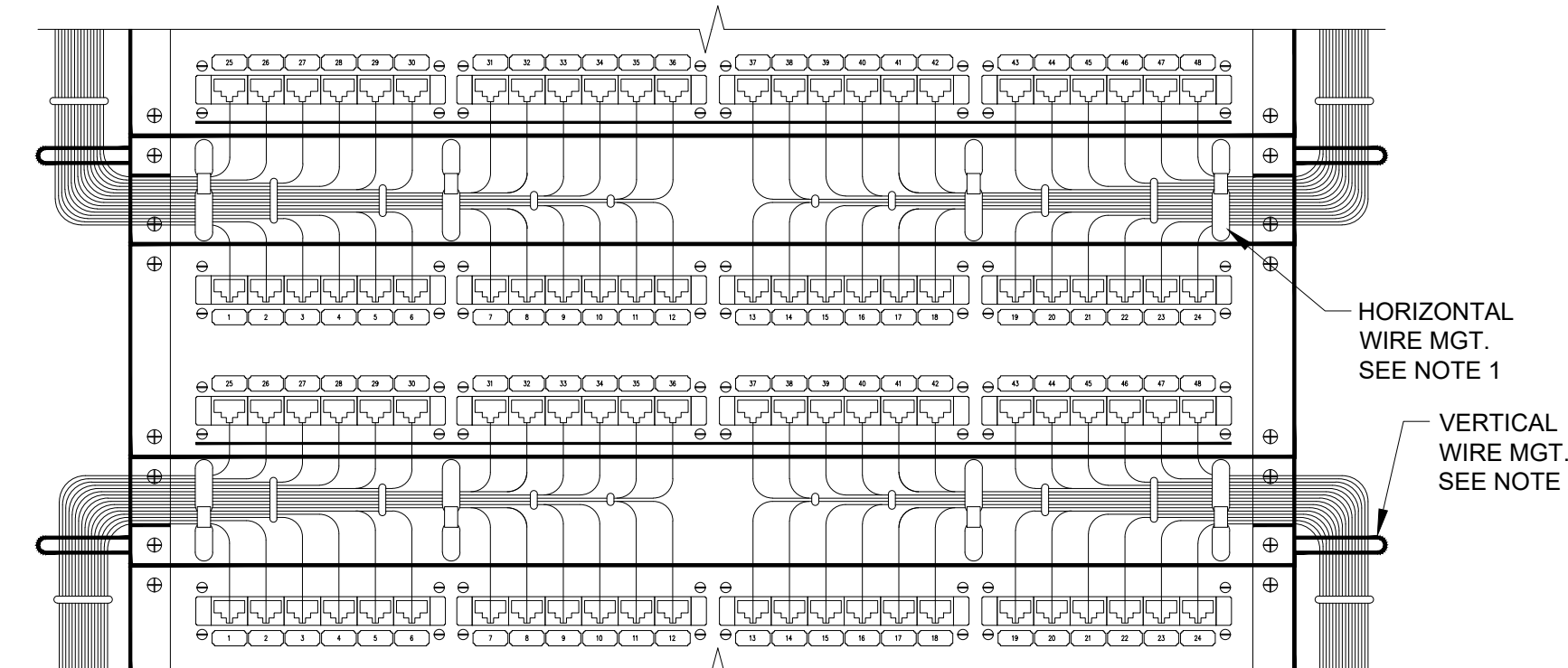
3 TYPICAL LADDER RACK INSTALLED ABOVE EQUIPMENT DETAIL
NOT TO SCALE



- NOTE:
1. ALL CONNECTION HARDWARE, PARTS AND PIECES ARE TO BE OF THE SAME MANUFACTURER AS THE LADDER RACK AND APPROVED BY THE MANUFACTURER AS APPROPRIATE FOR THIS APPLICATION.

BONDING CONDUCTOR SIZING CHART

LENGTH (FEET)	SIZE (AWG)
LESS THAN (<) 13'	# 6
14' - 20'	# 4
21' - 26'	# 3
27' - 33'	# 2
34' - 41'	# 1
42' - 52'	# 1/0
53' - 66'	# 2/0
GREATER THAN (>) 66'	# 3/0

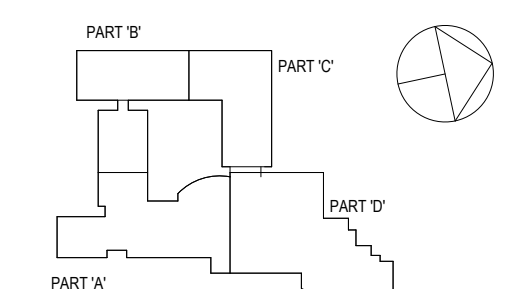


- NOTES:
1. PROVIDE HORIZONTAL WIRE MANAGEMENT (SIZED AS SHOWN ON RACK ELEVATION DETAILS) ABOVE AND BELOW EACH PATCH PANEL. SECURE CABLING WITH HOOK AND LOOP TYPE VELCRO STRAPS.
 2. PROVIDE VERTICAL WIRE MANAGEMENT AS SHOWN IN THE RACK ELEVATION DETAILS. SECURE CABLING WITH HOOK AND LOOP TYPE VELCRO STRAPS.
 3. CABLING SHALL BE NEATLY ORGANIZED AND SUPPORTED. SPLIT ROUTING OF CABLES TO PRESENT A NEAT EVEN APPEARANCE FOR IMPROVED SERVICE ABILITY AND CABLE SUPPORT SIMILAR TO ABOVE. WEIGHT OF CABLES SHALL BE SUPPORTED BY WIRE MANAGEMENT DEVICES AND NOT BY THE CABLE CONNECTION.
 4. THIS ARRANGEMENT IS TYPICAL FOR THE FRONT AND REAR OF THE RACK.
 5. PROVIDE STRAIN RELIEF AT ALL CABLE CONNECTIONS.

4 PATCH PANEL WIRING MANAGEMENT DETAIL
NOT TO SCALE

5 TYPICAL LADDER RACK CONNECTION DETAIL
NOT TO SCALE

SPN 135-0278RR



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2 8/6/2019 ISSUED FOR BID
1 7/25/2019 CLIENT REVIEW SET
Sheet Title

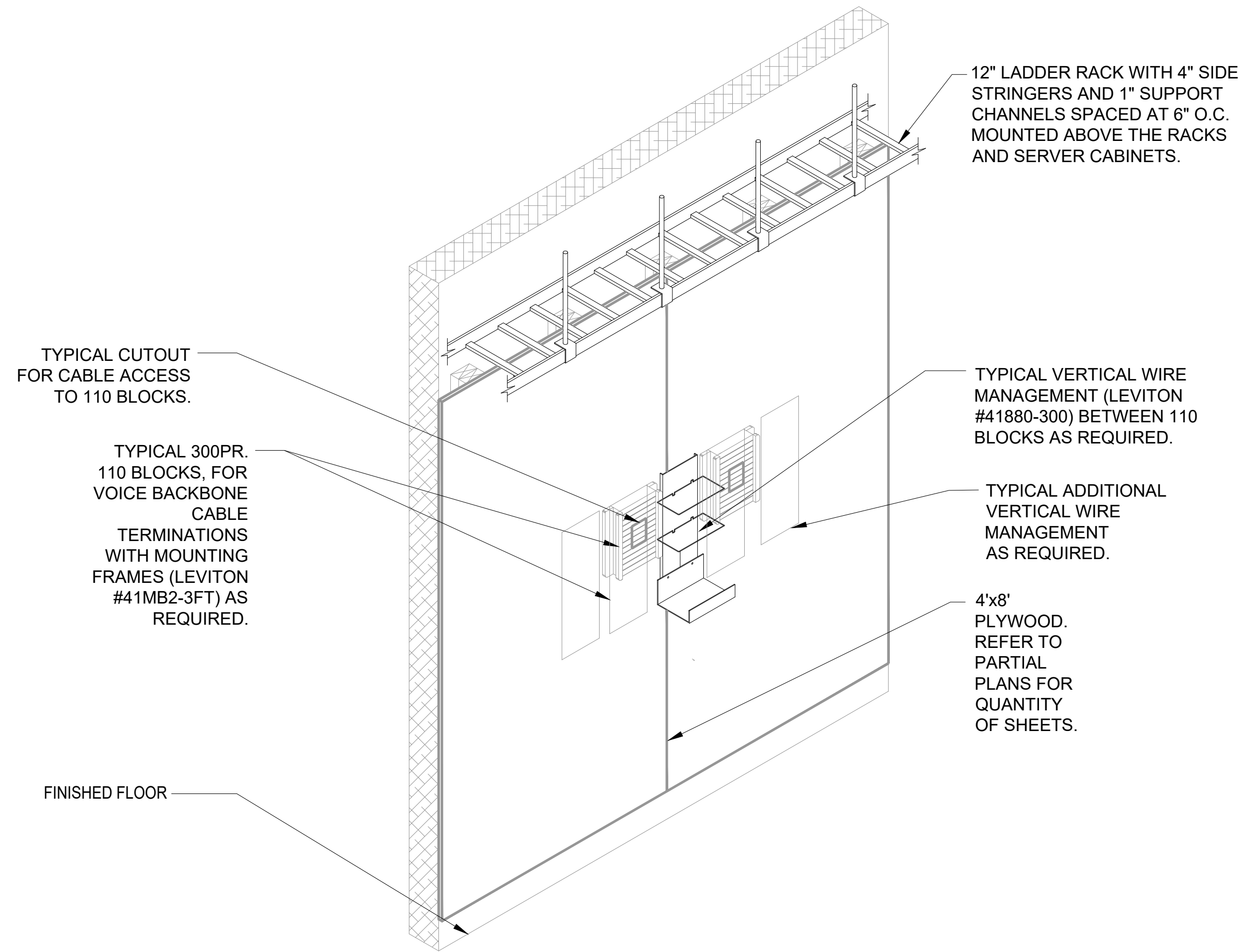
DETAILS

Job No. 2019-1016 Date 08/06/2019

Scale AS NOTED Drawn / Checked JESSICA HUNTER

Sheet Number

T-302



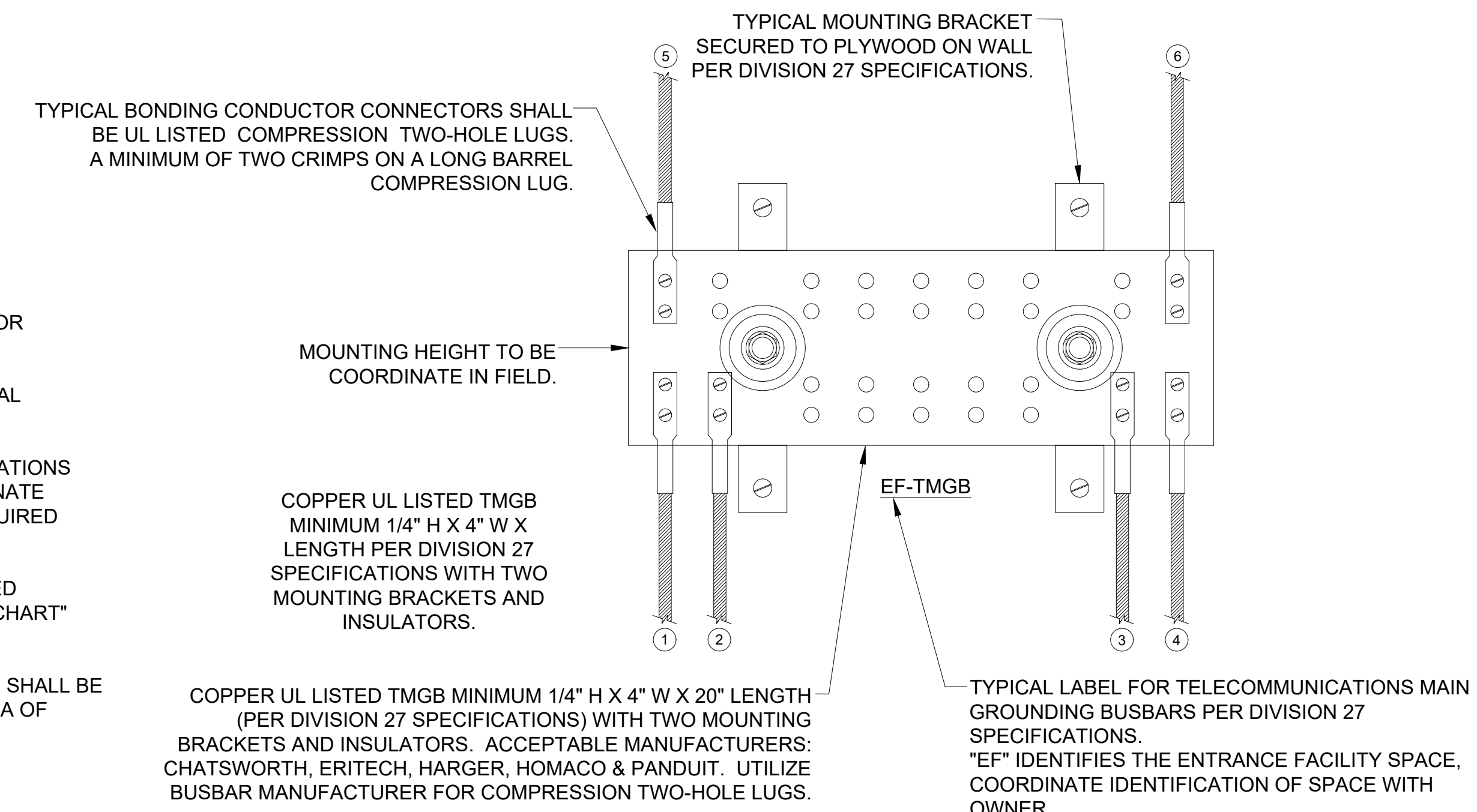
- NOTES:**
- REFER TO TELECOMMUNICATIONS ROOM PARTIAL PLANS FOR VOICE WALLFIELD LOCATIONS AND MOUNTING SURFACES.
 - GENERAL CONTRACTOR TO PROVIDE CUTOUTS AND COORDINATE WITH CABLE CONTRACTOR ON LOCATIONS AND SIZES WITHIN THE PLYWOOD BACKBOARD FOR CABLE ACCESS TO VOICE TERMINATION FIELDS.
 - CABLE CONTRACTOR TO ROUTE ALL HORIZONTAL AND BACKBONE VOICE CABLING DOWN BACKSIDE OF PLYWOOD BACKBOARD, ROUTE THROUGH CUTOUT AND TERMINATE. MOUNT 300PR 110 BLOCKS OVER THE CUT.
 - THIS DETAIL IS FOR BASIC WALLFIELD CONFIGURATIONS ONLY, CABLE CONTRACTOR TO PROVIDE ALL NECESSARY EQUIPMENT TO ENSURE A NEAT AND WORKMANLIKE INSTALLATION OF ALL VOICE CABLING.

1 MER VOICE WALLFIELD ON PLYWOOD BACKBOARD
SCALE: NONE

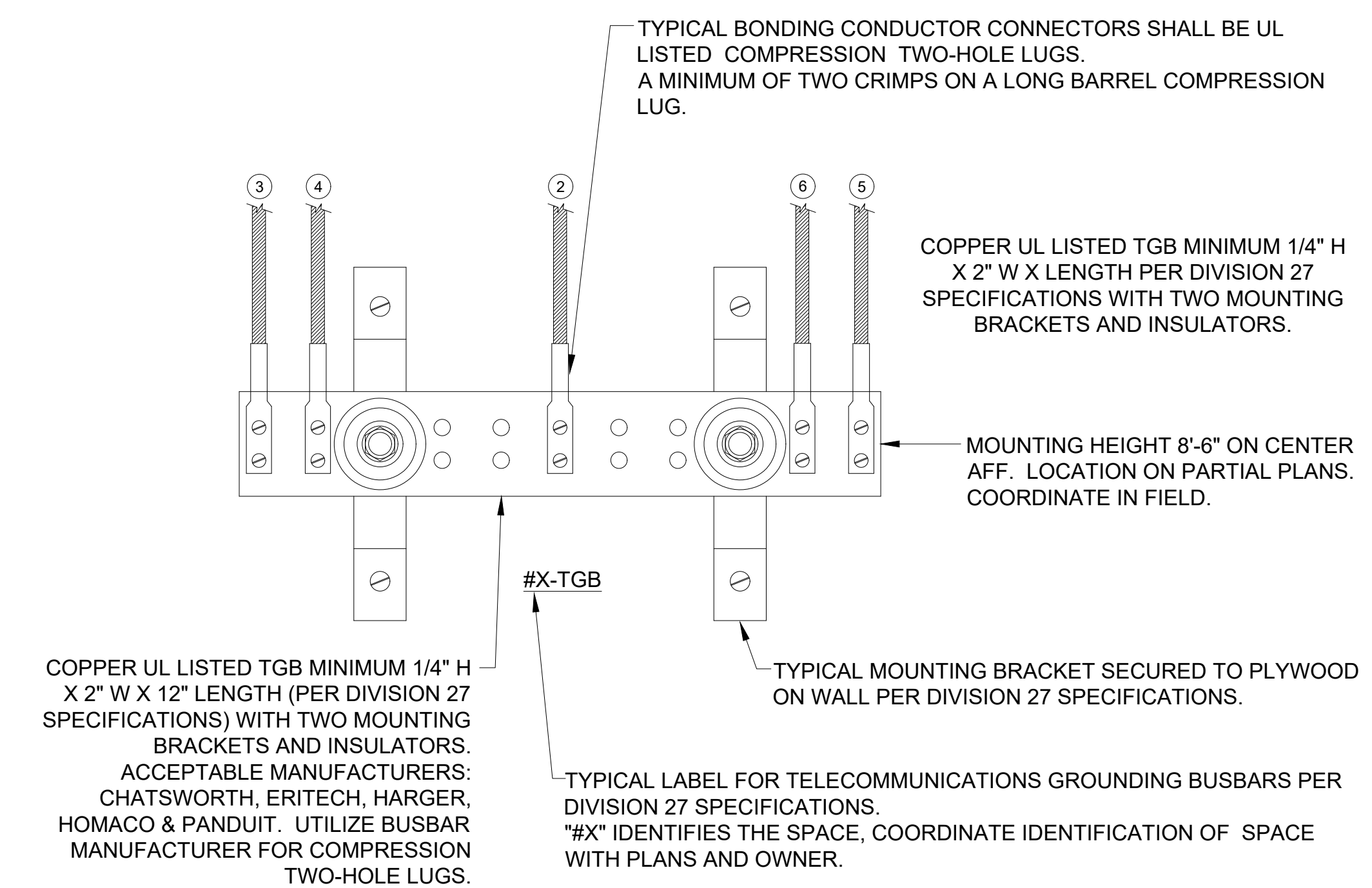
BONDING CONDUCTOR SIZING CHART	
LENGTH (FEET)	SIZE (AWG)
LESS THAN (<) 13'	# 6
14' - 20'	# 4
21' - 26'	# 3
27' - 33'	# 2
34' - 41'	# 1
42' - 52'	# 1/0
53' - 66'	# 2/0
GREATER THAN (>) 66'	# 3/0

GROUNDING & BONDING RISER/DETAIL NOTES

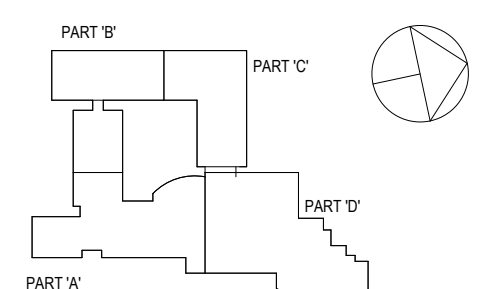
- REFER TO GROUNDING AND BONDING DIVISION 27 SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- REFER TO GROUNDING AND BONDING RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- PROVIDED 2" C SLEEVE PATHWAY AT EACH FLOOR AND WALL PENETRATIONS FOR THE TELECOMMUNICATION BONDING BACKBONE (TBB). COORDINATE PROPER METHODS FOR PENETRATIONS WITH FIRESTOPPING AS REQUIRED PER DIVISION 07 SPECIFICATIONS.
- BONDING CONDUCTORS SHALL BE #3/0 AWG COLOR GREEN INSULATED COPPER CONDUCTOR OR SIZED PER "BONDING CONDUCTOR SIZING CHART" (ANSI J-STD-607-A) IN PATHWAY.
- FASTENING BONDING CONNECTOR TWO-HOLE LUGS TO ALL BUSBARS SHALL BE CLEANED AND APPLY A COPPER ANTI-OXIDANT TO THE CONTACT AREA OF BOTH THE CONNECTOR LUG AND THE BUSBAR.
- BONDING CONDUCTORS AND BUSBARS SHALL BE LABELED WITH IDENTIFICATION IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI/TIA/EIA-606-A.
- BONDING CONDUCTORS SHALL BE LABELED WITH IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-607-A) "IF THIS CONNECTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
- CONTINUITY TESTING MEASUREMENTS OF THE GROUNDING RESISTANCE TO NOT EXCEED 0.1 OHM BETWEEN:
 - THE TMGB AND THE NEAREST GROUNDING ELECTRODE.
 - EACH TGB AND THE NEAREST GROUNDING ELECTRODE.
 - EACH TGB AND PATHWAY(S), RACK(S), CABINET(S) AND APPLICABLE EQUIPMENT.



- BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) TO BUILDING GROUNDING ELECTRODE. REFER TO RISER DIAGRAM.
- BCT TO NEAREST BUILDING STEEL STRUCTURE, IF APPLICABLE. UTILIZE EXOTHERMIC WELDING CONNECTION TO BUILDING STEEL.
- BCT TO NEAREST BUILDING ELECTRICAL PANELBOARD GROUND BAR. UTILIZE LISTED CONNECTOR TO PANELBOARD GROUND BUS.
- TELECOMMUNICATION BONDING BACKBONE (TBB) FOR GROUNDING EQUALIZER (GE), IF APPLICABLE. REFER TO RISER DIAGRAM.
- TYPICAL TBB(S) THAT INTERCONNECTS ALL TGB(S) WITH THE TMGB. REFER TO RISER DIAGRAM.
- BCT TO TELECOMMUNICATIONS CABLE RUNWAY(S), RACK(S), CABINET(S) AND APPLICABLE EQUIPMENT. DAISY CHAINING OF BCT AT RELAY IS NOT ACCEPTABLE. EACH RACK IS TO HAVE A BCT TO A COMPRESSION LUG TAP TO THE DEDICATED HOMERUN BCT BACK TO THE TGB. SEE DETAILS.



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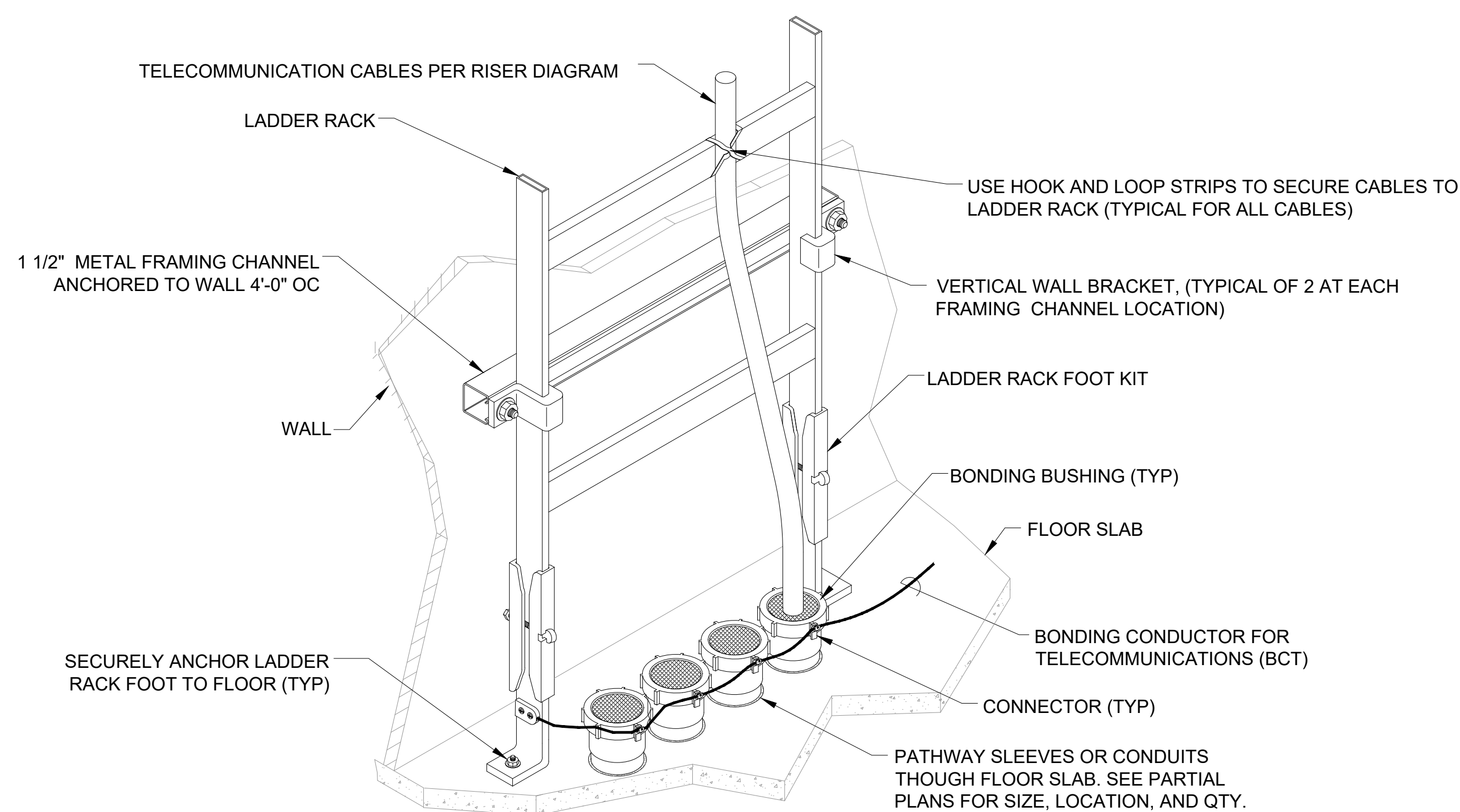
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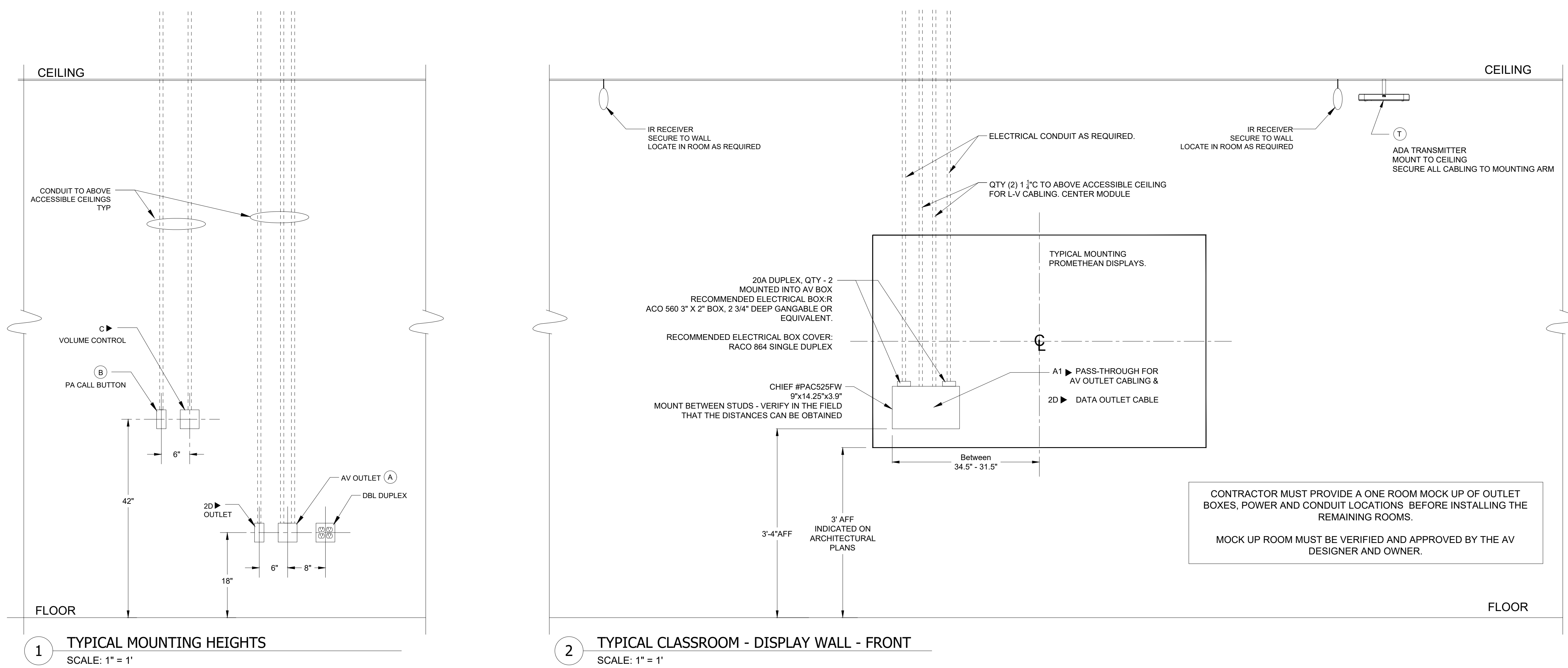
**DETAILS
GROUNDING
AND BONDING**

Job No. 2019-1016 Date 08/06/2019
Scale AS NOTED Drawn / Checked JESSICA HUNTER
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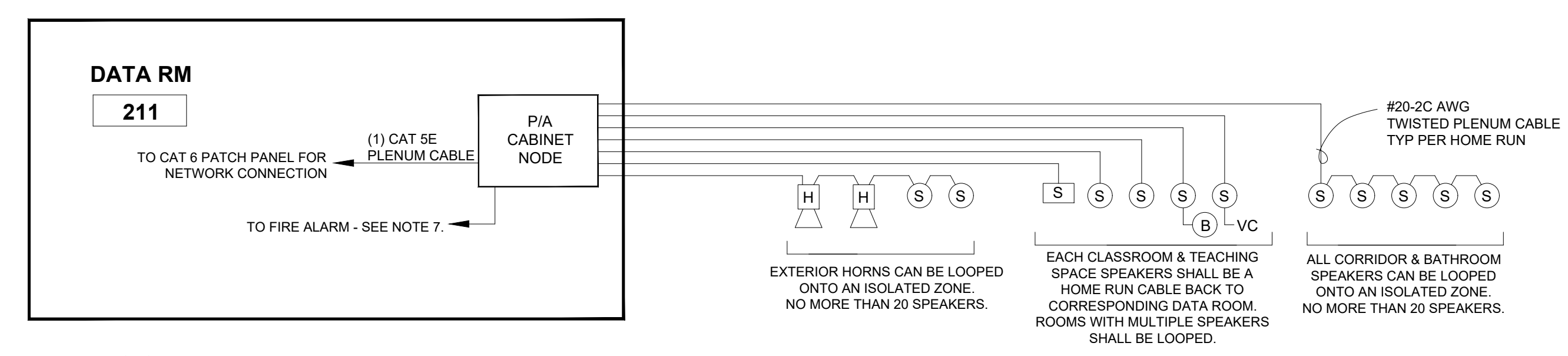
2 VERTICAL LADDER RACK INSTALLATION DETAIL
SCALE: NONE

3 TELECOMMUNICATIONS PATHWAY GROUNDING AND BONDING DETAILS
SCALE: NONE

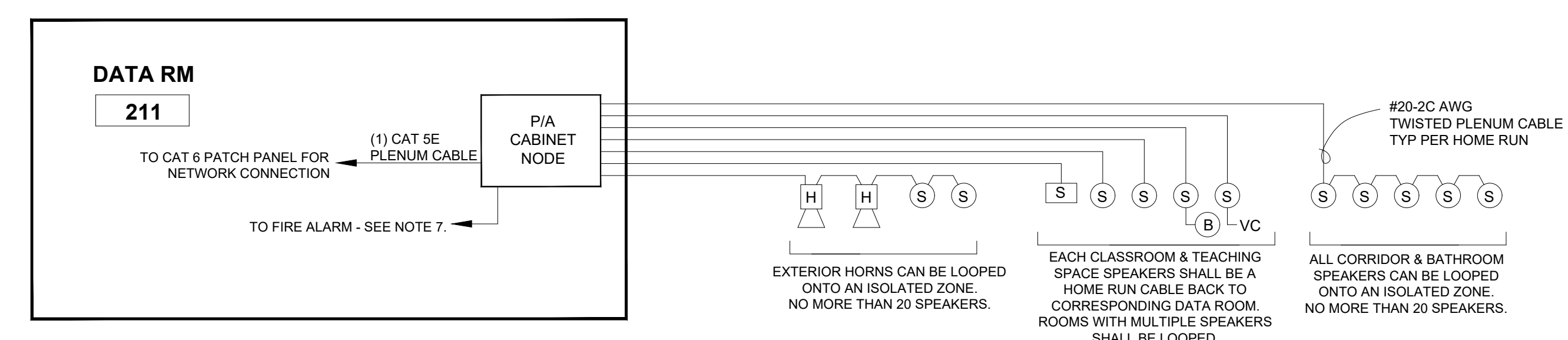


1 TYPICAL MOUNTING HEIGHTS
SCALE: 1" = 1'

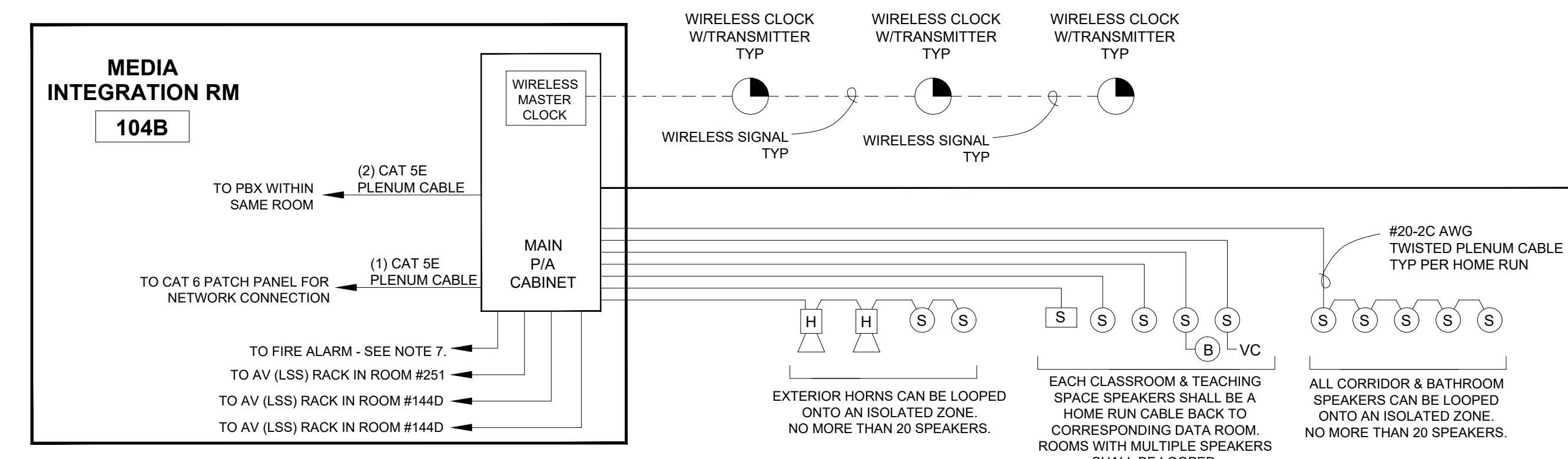
2 TYPICAL CLASSROOM - DISPLAY WALL - FRONT
SCALE: 1" = 1'



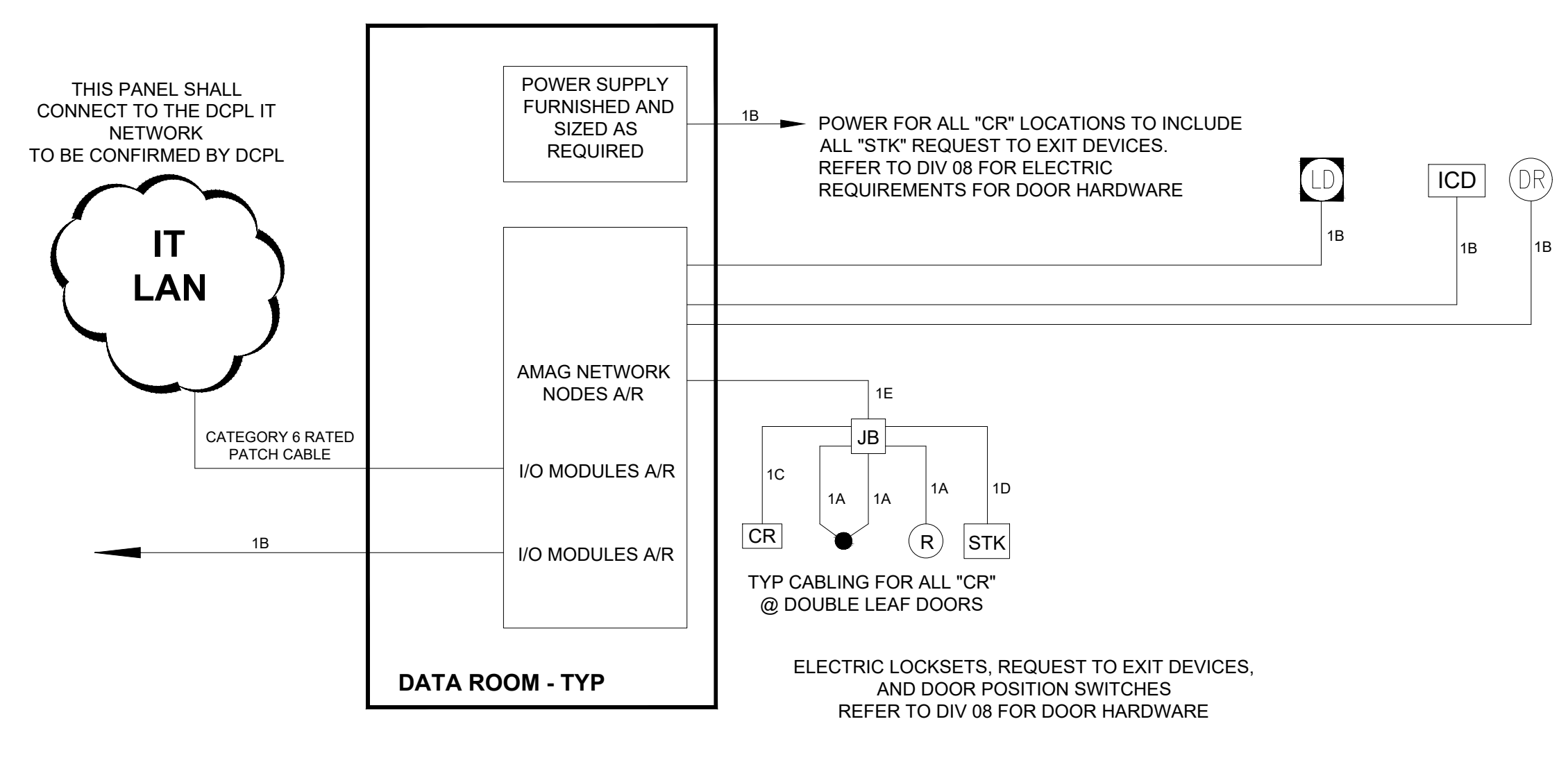
2nd FLOOR



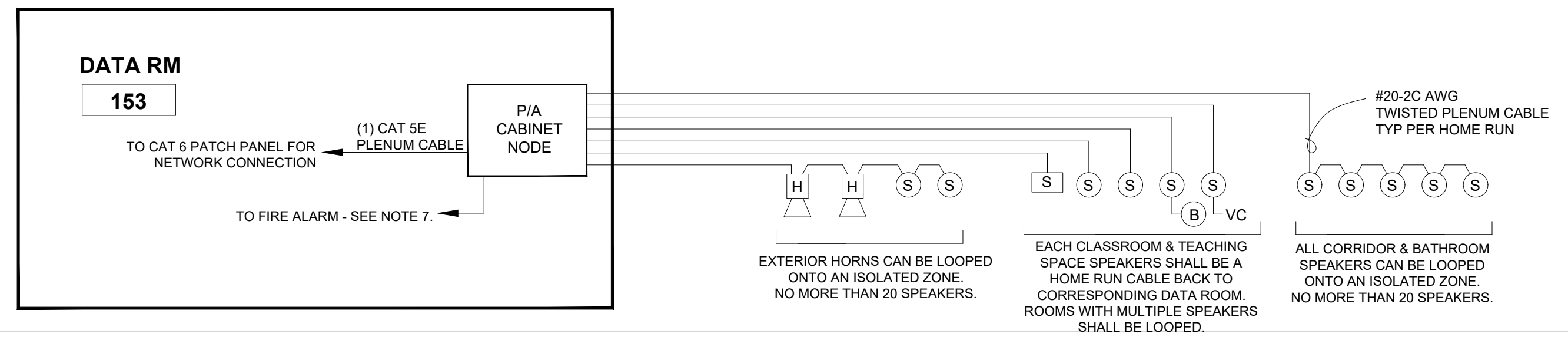
1st FLOOR



3 WIRING DIAGRAM - TYPICAL - PUBLIC ADDRESS SYSTEM
SCALE: NONE



4 ACCESS CONTROL WIRING DIAGRAM
SCALE: NONE



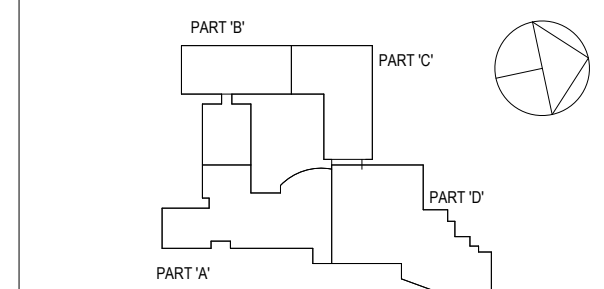
1st FLOOR

- NOTES:
- THIS RISER DIAGRAM INDICATES THE PUBLIC ADDRESS DEVICES WHICH ARE TO BE INSTALLED FROM EACH BUILDING SECTION AND CABLED TO THE CORRESPONDING DATA ROOMS AS SPECIFIED.
 - ACTUAL QUANTITIES OF DEVICES ARE DESCRIBED WITHIN THE PLAN DRAWINGS. CONTRACTOR SHALL PROVIDE A COMPLETE RISER DIAGRAM TO INCLUDE EACH DEVICE AND REQUIRED FIELD WIRING FOR APPROVAL BEFORE INSTALLATION.
 - REFER TO SPECIFICATIONS FOR SYSTEM DESCRIPTION, SEQUENCE OF OPERATION OF THE PUBLIC ADDRESS SYSTEM AND ALL WIRING.
 - SPEAKER CONDUCTORS INSTALLED IN ROOMS OF INSTRUCTION AND OFFICES SHALL BE ONE CONTINUOUS HOME RUN TO THE CENTRAL CONTROL MODULES WITHIN THE DATA ROOMS. ROOMS WITH MULTIPLE SPEAKERS SHALL BE LOOPED ONTO A SINGLE ISOLATED ZONE.
 - NO SPLICES OF HOME-RUN WIRING SHALL BE ALLOWED.
 - THE CONTRACTOR MUST GROUND ALL DEVICES AND CABINET PER MANUFACTURER RECOMMENDATIONS TO BUILDING GROUND.
 - THE PA CONTRACTOR SHALL CONFIRM FUNCTIONALITY BETWEEN THE PUBLIC ADDRESS SYSTEM AND THE FIRE ALARM WITH THE OWNER, FIRE ALARM CONTRACTOR, TECHNOLOGY AND SECURITY CONSULTANT. REFER TO FIRE ALARM RISER DIAGRAM ON ELECTRICAL PLANS.

DESIGNATION	WIRE TYPE
1A	#22 - 2C, PLENUM
1B	CABLE A/R PER DEVICES & MANUFACTURER RECOMMENDATIONS
1C	#18-6C SHLD, PLENUM
1D	#18 - 2C SHLD, PLENUM
1E	BELDEN #658AFJ COMPOSITE CABLE PLENUM or Equiv. #18-6C SHLD, 22-2C, 22-4C, 18-4C
1G	#22-4C UNSHIELDED, SOLID, PLENUM

- NOTES:
- QTY OF AMAG NETWORK NODES SHALL BE PER CARD READER QUANTITIES ON PLANS.
 - ALL REQUIRED CONTROL CABLING FROM THE DATA ROOMS TO EACH ACCESS CONTROL DEVICE IS REQUIRED AS PART OF HIS BID MANUAL.
 - ALL REQUIRED POWER CABLING TO EACH LOW VOLTAGE DEVICE AT EACH DOOR RECEIVING A CARD READER IS REQUIRED AS PART OF HIS BID MANUAL.
 - REFER TO DIVISION 08, DOOR HARDWARE SPECIFICATION TO ENSURE ALL REQUIRED POWER SUPPLIES / LOCKS AND REQUEST TO EXIT DEVICES WHICH ARE BUILT INTO THE DEVICES.
 - ALL FINAL TERMINATIONS, CONFIGURATION AND TESTING SHALL BE PERFORMED BY THE CONTRACTOR.
 - THIS ACCESS CONTROL SYSTEM SHALL INTEGRATE TO THE AMAG CONTROLLER AS SPECIFIED.
 - THE EXISTING CONTROLLER AND NODES SHALL BE RELOCATED TO THE NEW MER.
 - THE EXISTING ACCESS CONTROL DOORS SHALL RECEIVE NEW ACCESS CONTROL CABLING, PULLED TO THE MER, FOR INTEGRATION INTO THE EXISTING CONTROLLER.
 - THIS INSTALLATION SHALL BE A PHASED APPROACH, AND AT NO TIME SHALL AN EXISTING ACCESS CONTROL DOOR NOT BE FUNCTIONAL.
 - THE INTERCOM DOOR RELEASE AND DOOR RELEASE BUTTONS SHALL RELEASE THE DOORS FROM THE AMAG PANEL.

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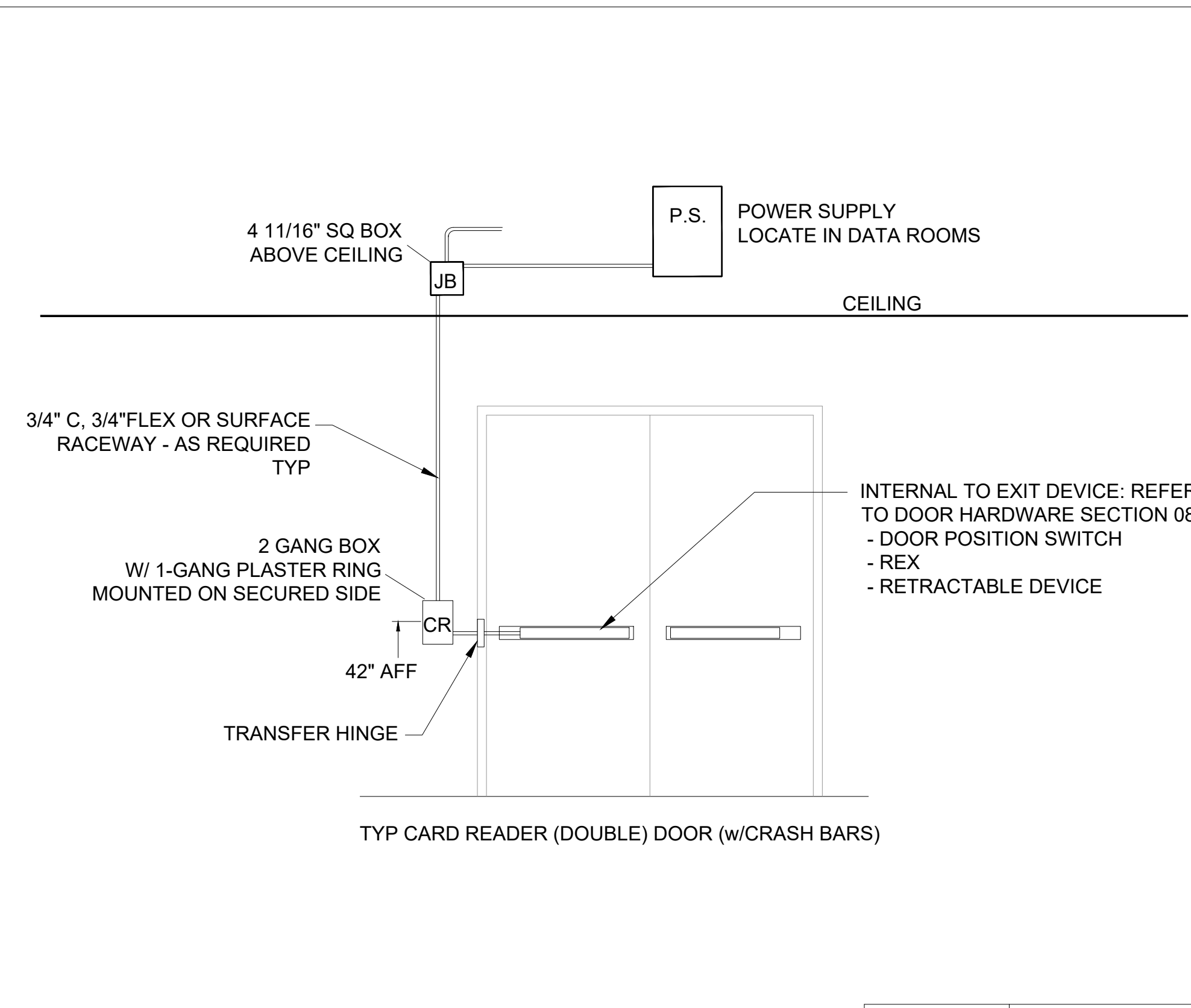
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2	8/6/2019	ISSUED FOR BID

Sheet Title

DETAILS & WIRING
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SECURITY

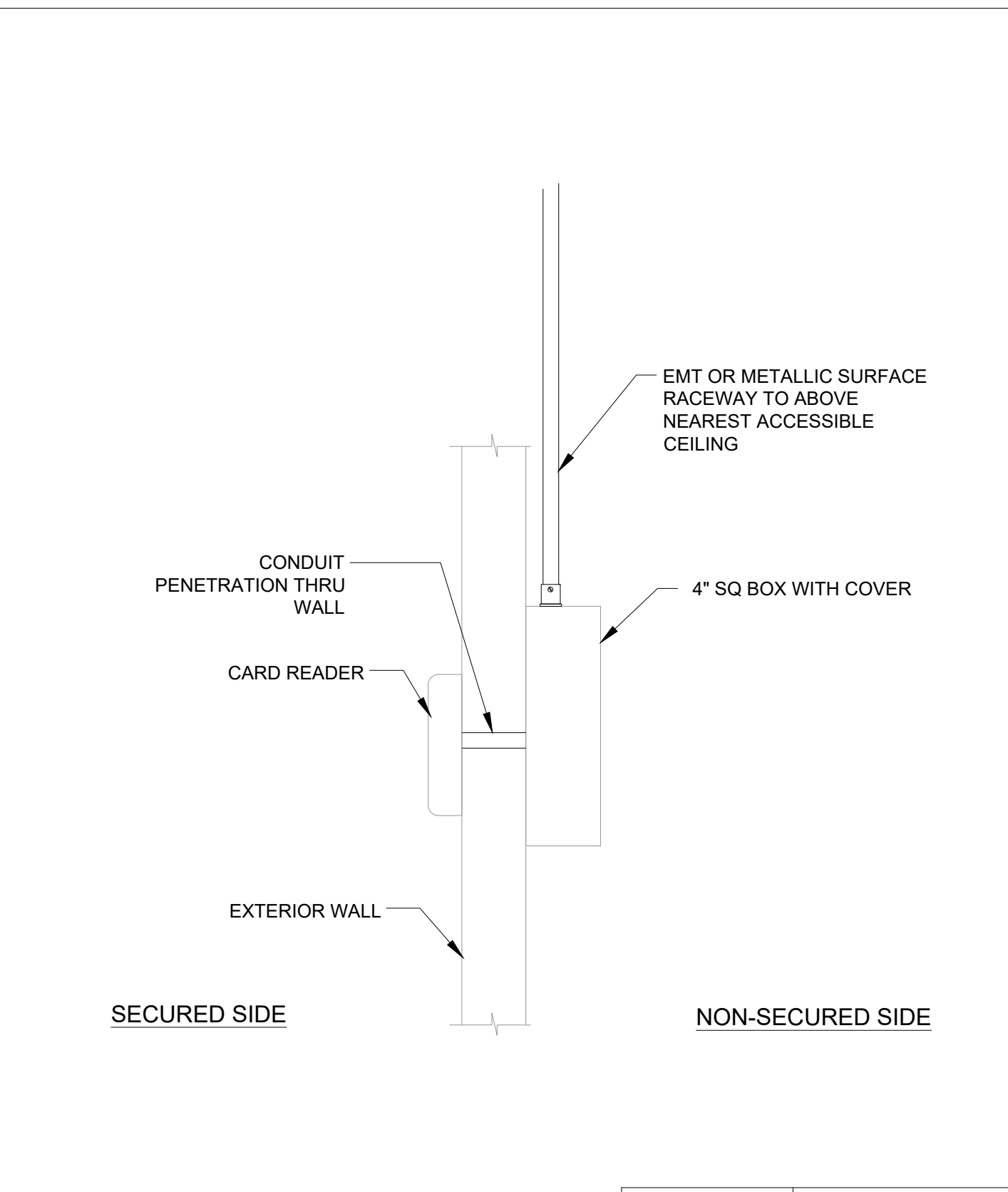
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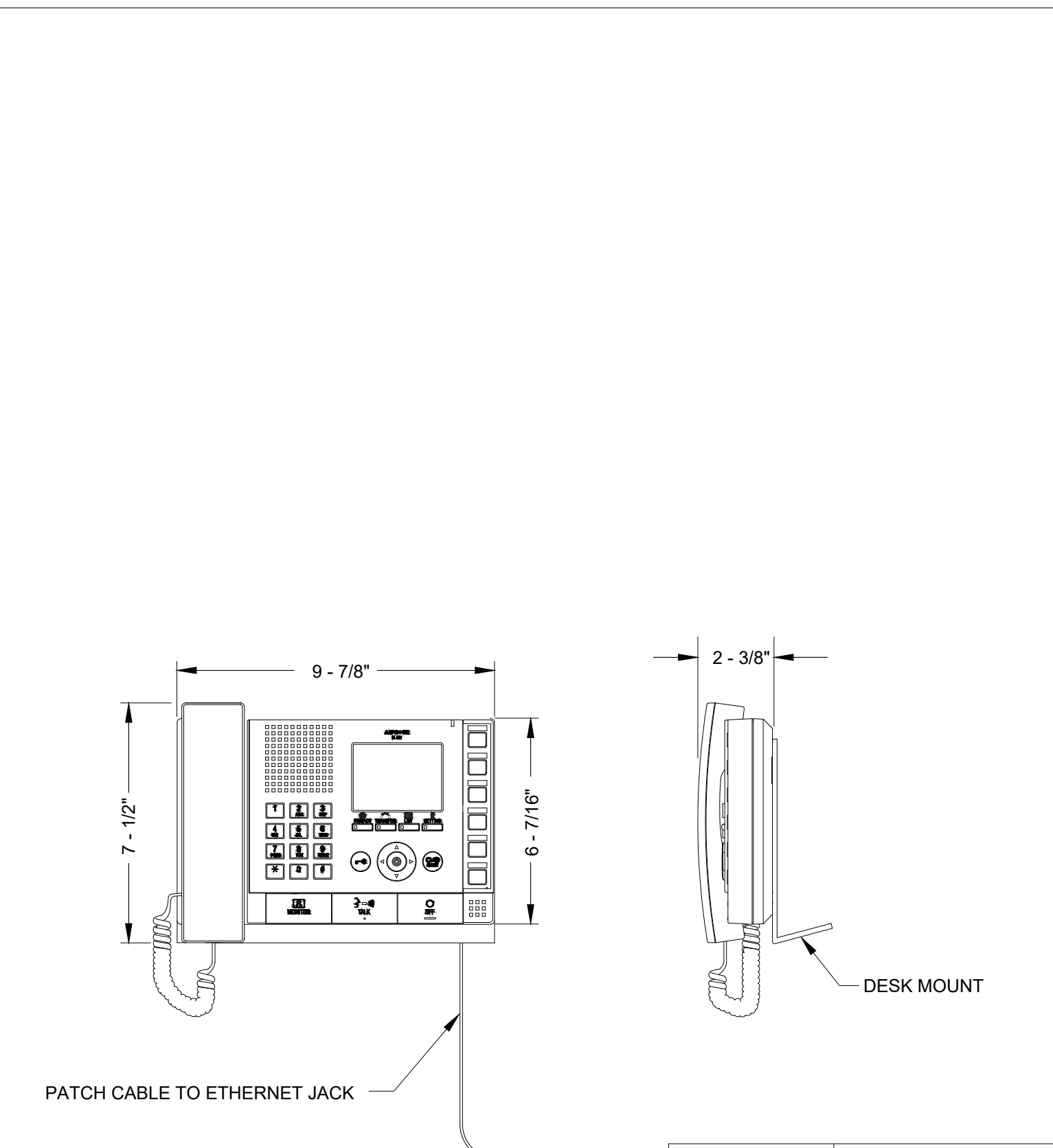
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ACCESS CONTROL OUTLET BOX LOCATION DETAIL NTS 1



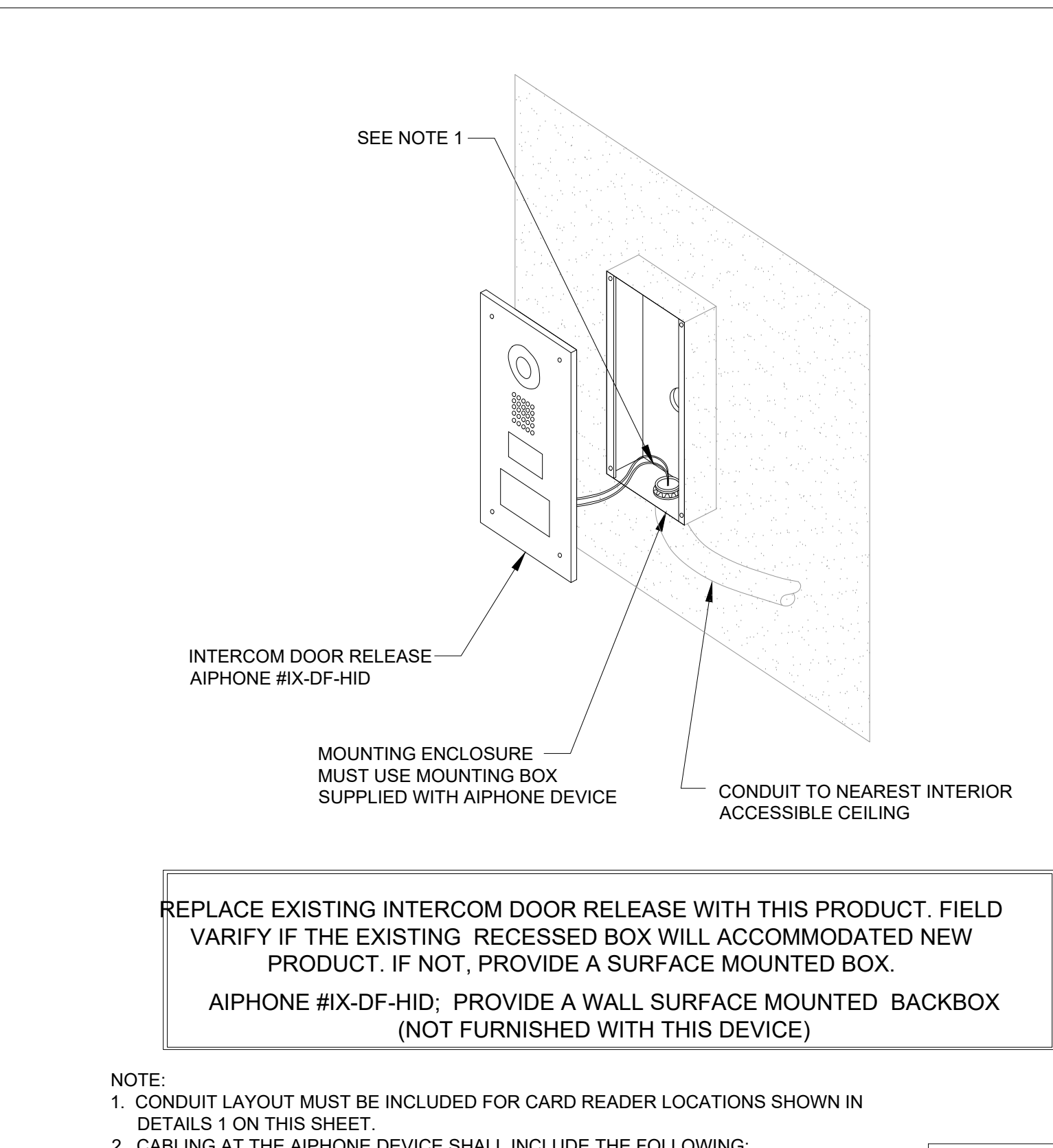
SYMBOL:	CR
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ACCESS CONTROL OUTLET BOX ASSEMBLY DETAIL NTS 2



SYMBOL:	ICM
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INTERCOM DOOR RELEASE MASTER STATION NTS 3



SYMBOL:	ICD
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INTERCOM-VIDEO-STATION NTS 4

Specifications

Main Kit IMU-100

- Power source: DC 24 V
- Current consumption: 120 mA (standby) 780 mA (maximum)
- Operating temperature: 0°C to 40°C (+32°F to +104°F)
- Communication: Voice-actuated communication
- Headset: Transmit output: 3 W 4 Ω Receive output: 1.5 W 16 Ω
- External speaker: Rated input: 40 mW or more Maximum input: 100 mW or more
- Paging speaker: Rated input: 3 W or more Maximum input: 6 W or more
- Housing: Main unit MU-100: Approx. 1.3 kg (2.87 lbs.)

Gooseneck Microphone IME-100

- Microphone: Condenser microphone, uni-directional
- Weight: Approx. 190 g (0.42 lbs.)

Acoustic Tube IAX-100

- Housing: Aluminum
- Weight: Approx. 650 g (1.43 lbs.)

Acoustic Interface Kit IAI-100

- Operating temperature: 0°C to 40°C (+32°F to +104°F)
- Acoustic output: Impedance: 4 Ω Rated input: 4.5 W
- Microphone: Condenser microphone, non-directional
- Housing: Aluminum
- Weight: Driver unit DR-100: Approx. 300 g (0.66 lbs.)

Optional Microphone IME-150

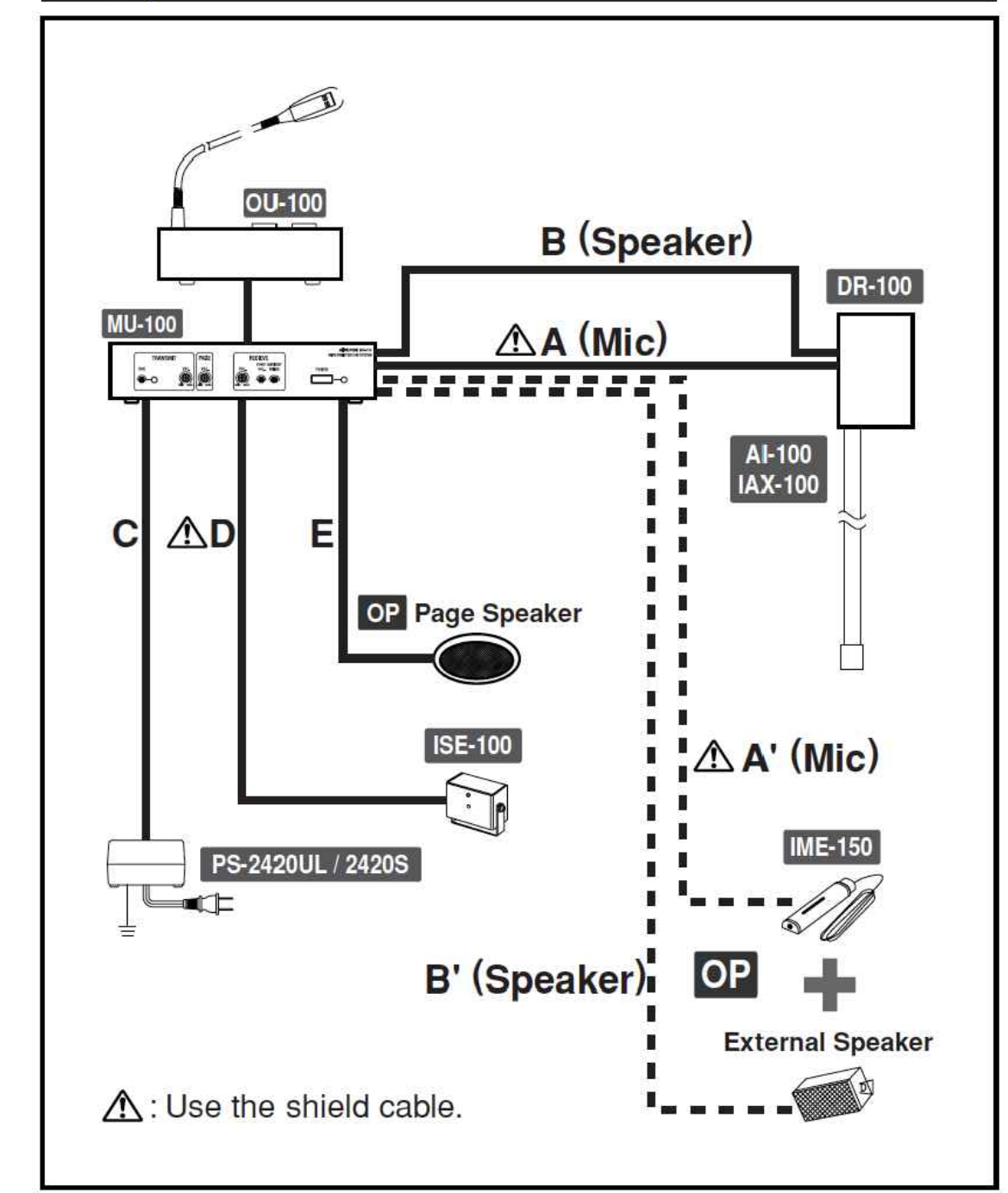
- Microphone: Condenser microphone, non-directional
- Weight: Approx. 150 g (0.31 lbs.)

Sensor ISE-100

- Power source: DC 24 V
- Current consumption: 5 mA (standby) 13 mA (maximum)
- Housing: Aluminum
- Weight: Approx. 120 g (0.26 lbs.)

DEVICE SPECIFICATIONS

Wiring distance

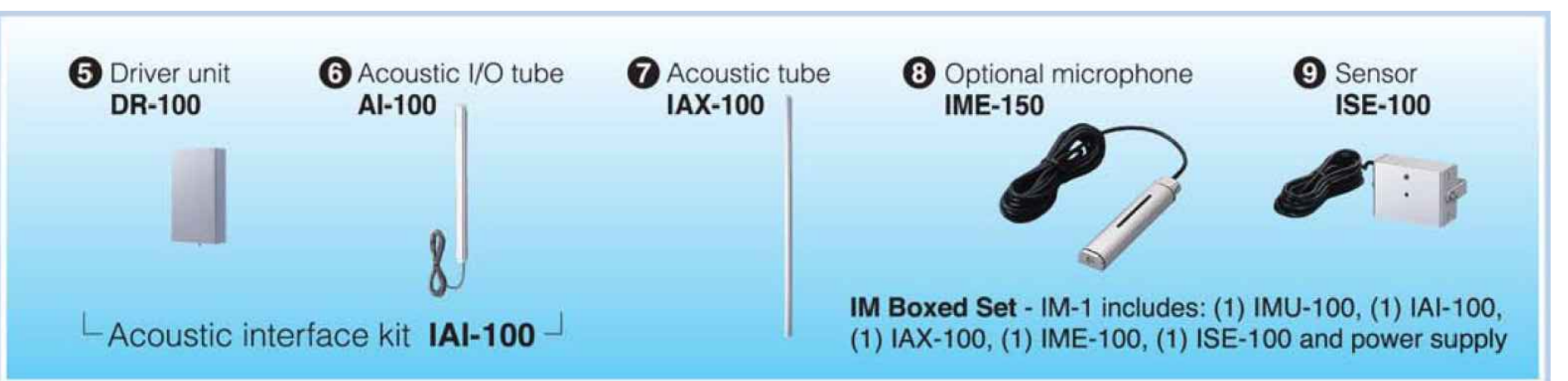
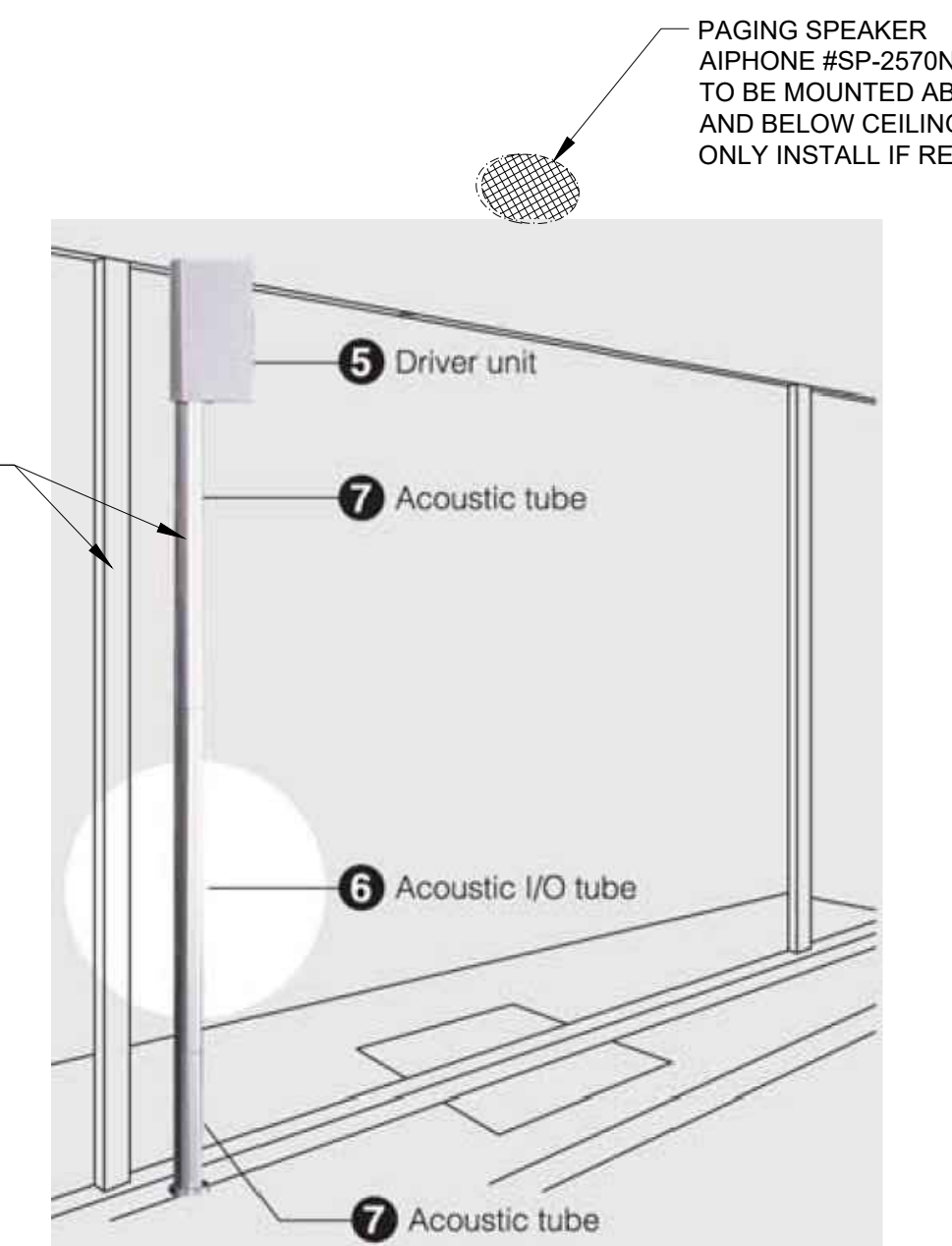


	Ø0.65-1.2 mm	AWG22-AWG16
A	20 m (max.)	66(max.)
A'	20 m (max.)	66(max.)
D	20 m (max.)	66(max.)
	Ø0.9-1.2 mm	AWG19-AWG16
B	20 m (max.)	66(max.)
B'	20 m (max.)	66(max.)
C	20 m (max.)	66(max.)
E	20 m (max.)	66(max.)

WIRING DIAGRAM - CABLING LENGTHS

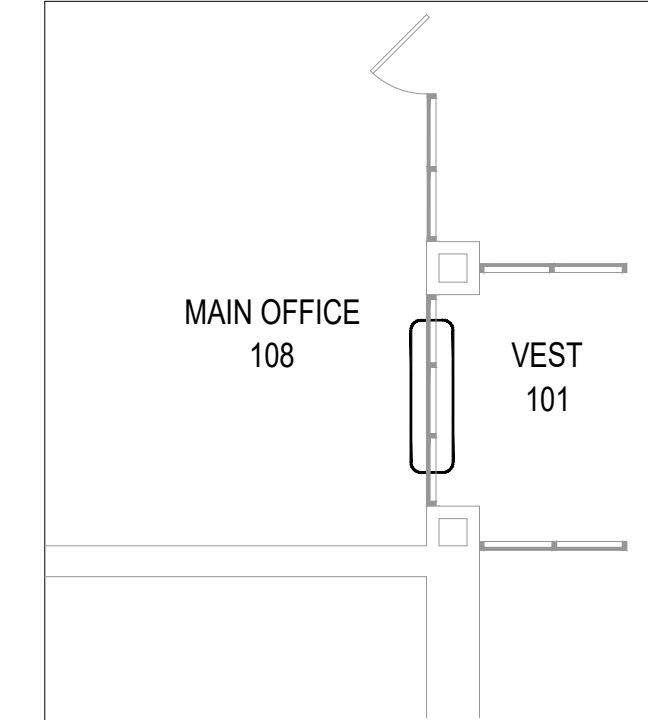


MAIN OFFICE 108 SIDE



SECURE ENTRY VEST 101 SIDE

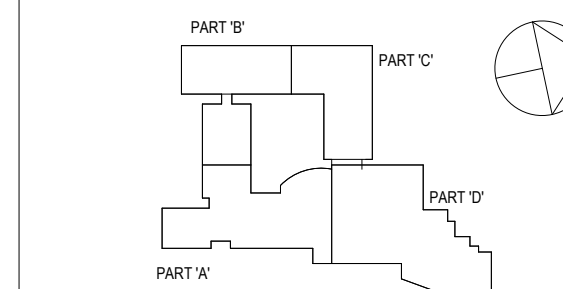
- NOTES:
1. AIPHONE #IM MODEL SHALL BE INSTALLED INTO THIS AREA.
 2. SECURITY CONTRACTOR MUST COORDINATE ALL ASSEMBLY WITH THE WINDOW FRAME AND WINDOW INSTALLATION CONTRACTOR.
 3. INSTALLATION, WIRING AND CONFIGURATION OF ALL DEVICES MUST BE PER THE MANUFACTURER INSTRUCTIONS.



ADD ALTERNATE H - REFER TO ARCHITECTURAL ALTERNATE PLANS

VISITOR / SECURITY COMMUNICATION WINDOW NTS 5

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DETAILS SECURITY

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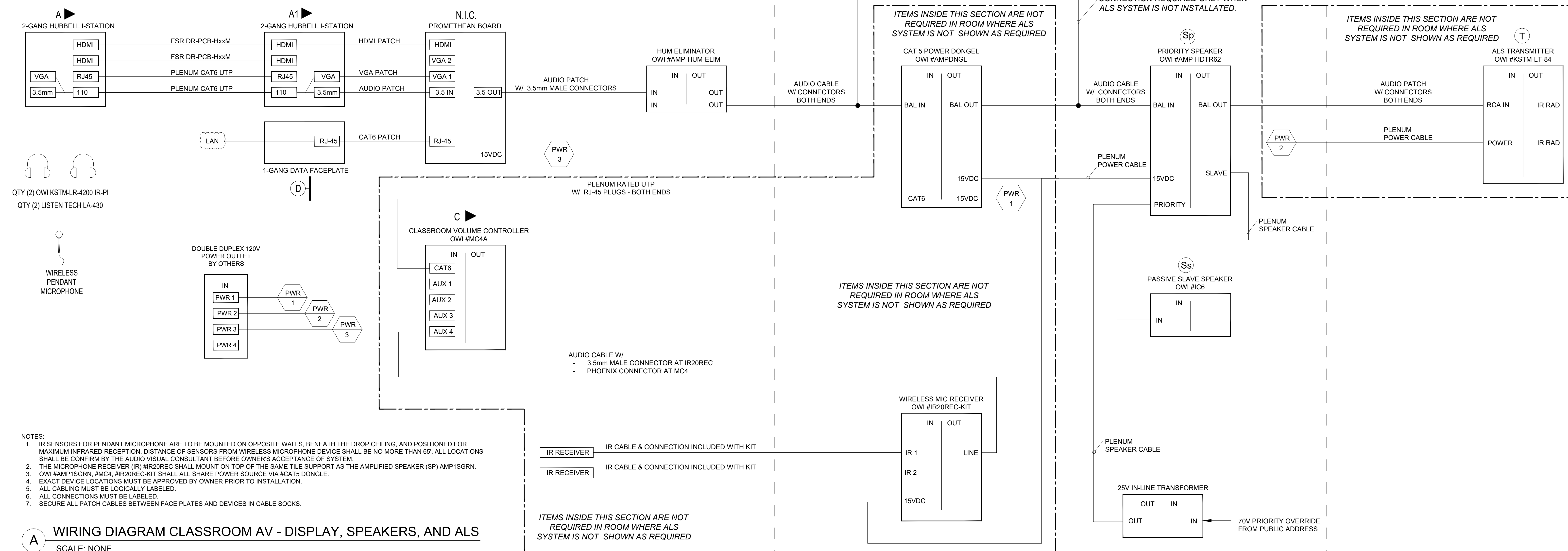
T-400

TEACHERS STATION

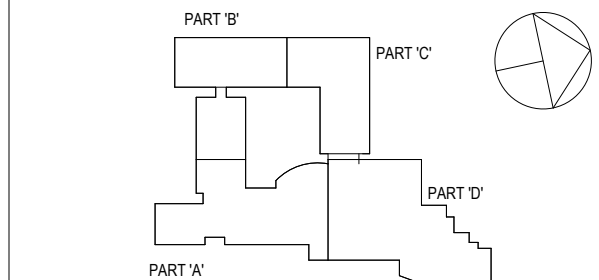
DISPLAY WALL

CEILING

DISPLAY WALL



A WIRING DIAGRAM CLASSROOM AV - DISPLAY, SPEAKERS, AND ALS
SCALE: NONE



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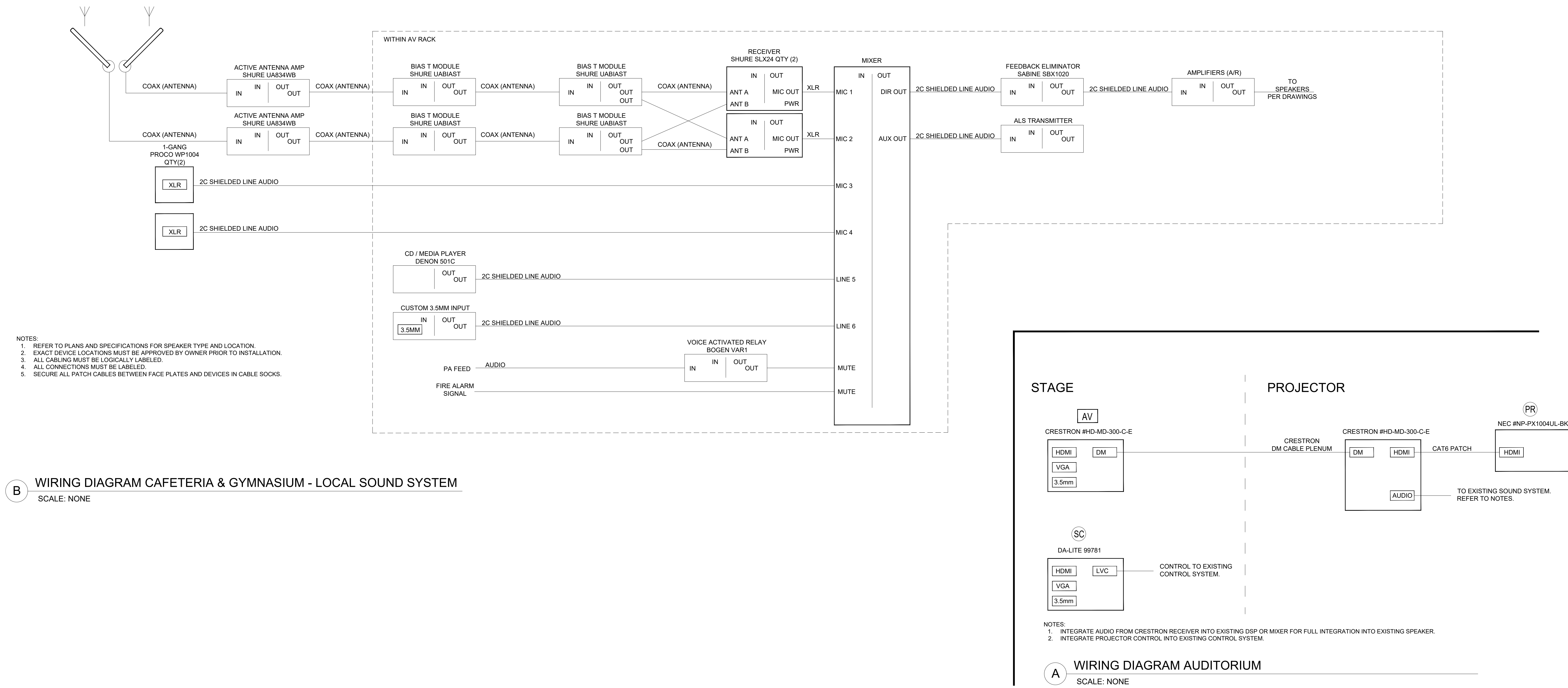
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AUDIO VISUAL WIRING DIAGRAMS

Job No. 2019-1016 Date 08/06/2019
Scale AS NOTED Drawn / Checked JESSICA HUNTER

Sheet Number

B WIRING DIAGRAM CAFETERIA & GYMNASIUM - LOCAL SOUND SYSTEM
SCALE: NONE



A WIRING DIAGRAM AUDITORIUM
SCALE: NONE