# FIRST FLOOR CLASSROOM A/C IMPROVEMENTS at NORTH KINGSTOWN HIGH SCHOOL 150 Fairway Drive, North Kingstown, Rhode Island 02852

# North Kingstown Public School Department 100 Romano Vineyard Way, Suite 120, North Kingstown, RI Bid No. 2022-10



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BUILDING ENGINEERING RESOURCES, INC.

PLUMBING, MECHANICAL, ELECTRICAL, & FIRE PROTECTION ENGINEERS Warwick, Rhode Island

## PARE CORPORATION

STRUCTURAL ENGINEERS Lincoln, Rhode Island

CAVANAUGHTOCCI ASSOCIATES, INC.

ACUSTICAL CONSULTANT Sudbury, Massachusetts





## March 4, 2022

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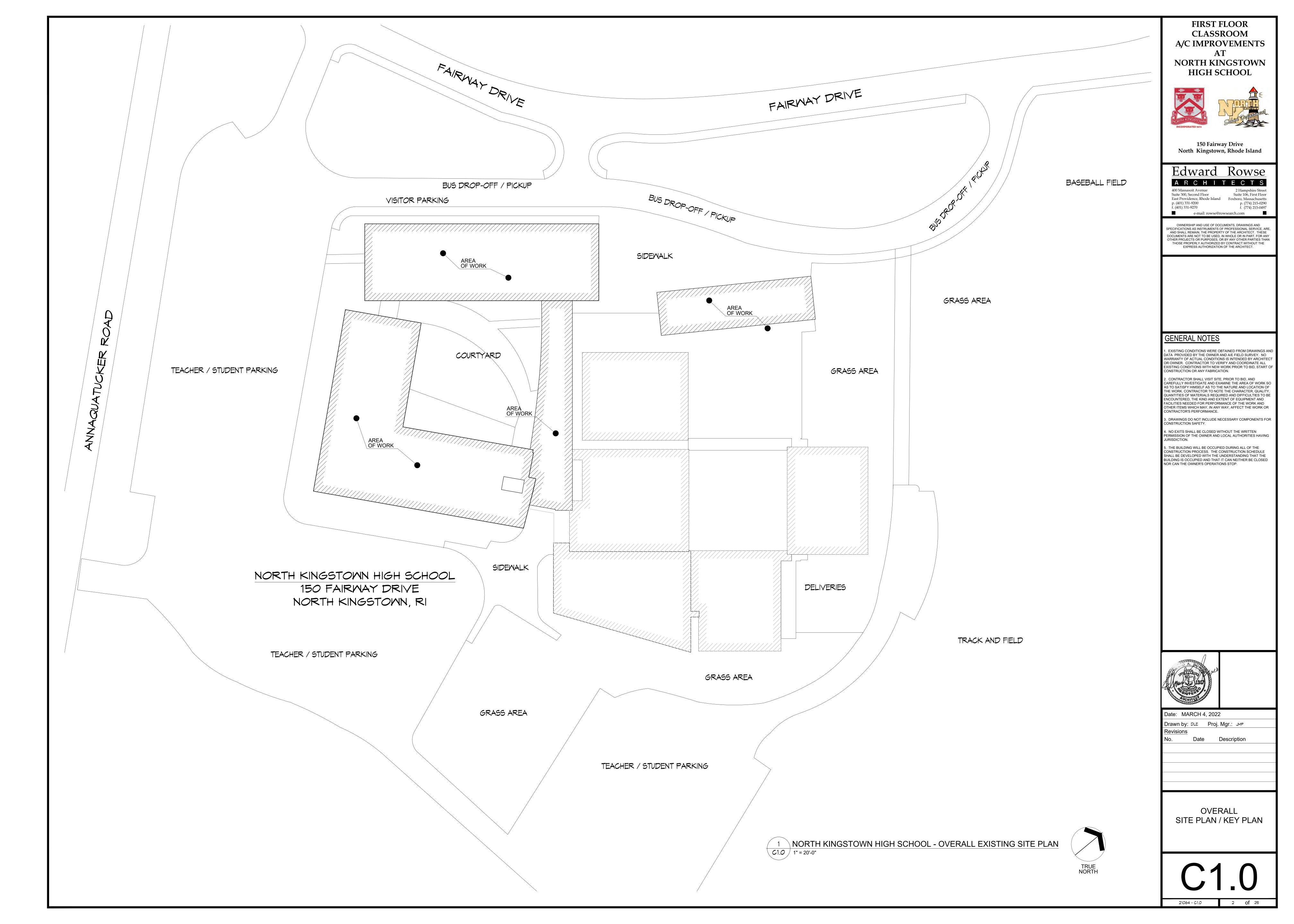
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## ARD ABBREVIATIONS

PVC

QT

PVMT

PAVEMENT

QUARRY TILE

POLYVINYL CHLORIDE

LIST	OF STANDA
A/C ACT AFF ALT ALUM ANC BLT APPROX ARCH ARGB ASPH	AIR CONDITIONING ACOUSTICAL TILE ABOVE FINISH FLOOR ALTERNATE ALUMINUM ANCHOR BOLT APPROXIMATE ARCHITECT ABUSE RESISTANT GB ASPHALT
BC BD BITUM BLDG BLK BLKG BM BOF BOF BOF BOF BRG BRK BS BSMT	BRICK COURSE BOARD BITUMINOUS BUILDING BLOCK BLOCKING BENCH MARK BOTTOM OF FOOTING BOTTOM BEARING BRICK BRICK SHELF BASEMENT
CAB CB CDM CH CIP CJ CL CLC CLC CLC CLC CLC CLC CLC CLC C	CABINET CEMENT BOARD CAVITY DRAINAGE MATERIAL CEILING HEIGHT CAST IN PLACE CONTROL JOINT CENTER LINE CLOSET OF CHAIN LINK CEILING CLOSET CLEAR CONCRETE MASONRY UNIT
CNTR CO COL COMP CONC CONST CONT CONY CORR COORD CPT CT CD CW	MADUNER COUNTER CASED OPENING COLUMN COMPOSITION CONCRETE CONSTRUCTION CONTINUOUS CONVECTOR CORRIDOR COORDINATE CARPET CERAMIC TILE CLOTHES DRYER CLOTHES WASHER
D DBL DEMO DI DIAG DIAM DIM DL DN D-PART DR DS DTL DWG DW EA EF	DRYER DOUBLE DEMOLITION DRAIN INLET DIAGONAL DIAMETER DIMENSION DRAIN LEADER DOWN DEMOUNTABLE PARTITION DOOR DOWNSPOUT DETAIL DRAWING DISHWASHER EACH EACH EACH FACE
EHD EIFS EJ ELC ELLEV ENCL EPPX EQUIP ERXIST EXP EXP EXT	ELECTRIC HAND DRYER EXTERIOR INSULATED FINISH SYSTEM EXPANSION JOINT ELECTRIC ELEVATION ELEVATOR EMERGENCY ENCLOSURE ELECTRICAL PANEL EPOXY SEALING SYSTEM EQUAL EQUIPMENT EXISTING TO REMAIN EXHAUST EXISTING EXPANSION EPOXY PAINT EXTERIOR
EW EWC FACP FB FD FE FFF FFE FIN FG FLASH FLR FLUOR FOC FOM FOS FP	EACH WAY ELECTRIC WATER COOLER FIRE ALARM CONTROL PANEL FIRE BLANKET FLOOR DRAIN FIRE EXTINGUISHER FINISH FLOOR FINISH FLOOR ELEVATION FINISH FIBERGLASS FLASHING FLOOR FLUORESCENT FOUNDATION FACE OF CONCRETE FACE OF FINISH FACE OF FINISH FACE OF STUD FIREPROOFING

GA GB	GAUGE
	GAUGE
GB	
	GYPSUM BOARD
GC	GENERAL CONTRACTOR
GALV	GALVANIZED
GL	GLASS
GLAZ	GLAZED BLOCK
GLB	GLASS BLOCK
GN	GOOSENECK
GNB	GYPSUM WALL BOARD
GYP	GYPSUM WALL BOARD
Un	OTT SUPPRALE DOARD
HC	HANDICAP
HD	HEAVY DUTY
HDWR	HARDWARE
HM	HOLLOW METAL
HOR	HORIZONTAL
HP	HIGH POINT
ΗT	HEIGHT
HTR	HEATER
HVAC	HEATING, VENTILATING,
	AIR CONDITIONING
D	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
JST	JOIST
TL	JOINT
1	IENGTH
L	LENGTH
LAM	LAMINATE
LAV	LAVATORY
LBL	LABEL
LC	LEAD COATED
LCC	LEAD COATED COPPER
LP	LOW POINT
LSC	LIFE SAFETY CODE
LT	LINOLEUM COMPOSITION TILE
MAS	MASONRY
MAX	MAXIMUM
MB	MARKER BOARD
MBL	MARBLE TILE
MC	MEDICINE CABINET
MDF	MEDIUM DENSITY
	FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
ML	MATCH LINE
MO	MASONRY OPENING
MRGB	MOISTURE RESISTANT GB
	METAL STUD
MS	
MTD	MOUNTED
MTD MTL	MOUNTED METAL
MTD MTL MTP	MOUNTED METAL METAL TOILET PARTITION
MTD MTL	MOUNTED METAL METAL TOILET PARTITION MOLDED WOOD
MTD MTL MTP	MOUNTED METAL METAL TOILET PARTITION
MTD MTL MTP MWF	MOUNTED METAL METAL TOILET PARTITION MOLDED WOOD FIBERBOARD
MTD MTL MTP	MOUNTED METAL METAL TOILET PARTITION MOLDED WOOD FIBERBOARD MULTI-COLOR
MTD MTL MTP MWF	MOUNTED METAL METAL TOILET PARTITION MOLDED WOOD FIBERBOARD
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R R R R BD F FUR & & & & & & & & & & & & & & & & & & &	REMOVE & DISPOSE REMOVE & REPLACE REMOVE & SALVAGE RADIUS/RISER RUBBER MAT ROOF DRAIN REFRIGERATOR REFURBISH REINFORCEMENT REQUIRED RIGHT HAND RHODE ISLAND STATE BUILDING CODE ROOF LADDER ROOM ROUGH OPENING RUBBER TILE RUBBER TREAD AND RISER ROOF TOP UNIT
S SCH SCH SC SD SF M D SN SC ST D ST C ST ST ST ST ST ST ST ST ST ST ST ST ST	SEALANT SEAT COVER DISPENSER SCHEDULE SHOWER CURTAIN ROD SOLID CORE WOOD SOAP DISPENSER SECTION SQUARE FEET SIMILAR SANITARY NAPKIN DISPOSA SANITARY NAPKIN VENDOR SPECIFICATION SQUARE STAINLESS STEEL STRINGER STANDARD STEEL STORAGE STRUCTURE OF STRUCTURAL SUSPENDED OF SUSPENSION SHEET VINYL
T THE TE BA TE D THE TE BE TO THE ADD	TREAD TOP AND BOTTOM TACK BOARD TO BE ABANDONED TILE BACKER BOARD TO BE DETERMINED TELEPHONE THICK OR THICKNESS THRESHOLD TOP OF CURB TOP OF CURB TOP OF LANDING TOP OF PLATE TOP OF STEEL TOP OF STEEL TOP OF WALL TRASH BASKET TUBULAR STEEL TOILET TISSUE DISPENSER TO WEATHER TYPICAL
UC UNO UV	UNDERCUT UNLESS NOTED OTHERWISE UNIT VENTILATOR
VB VCT VEST VIF VPB VS VT VTS VWB VWC	VINYL WALL BASE VINYL COMPOSITION TILE VERTICAL VESTIBULE VERIFY IN FIELD VENEER PLASTER BASE VENT STACK VINYL TREAD VINYL TRANSITION STRIP VINYL WALL BASE VINYL WALL COVERING
X X X B X D P F G P G Y F X X X D D P F G P G Y X X X X X X X X X X X X X X X X X X	WASHER WITH WITHOUT WRITING (WHITE) BOARD WATER CLOSET WOOD WOOD PANELING WIRE FABRIC WIRE GLASS WORK POINT WATERPROOF(ING) WOOD STUD WEIGHT WELDED WIRE FABRIC

## **GRAPHIC SYMBOLS**

FOOTING

FURRING

FIRE RETARDENT

FR

FTG

FUR

22 A2.12	WALL S OR EXT
22 A2.12	BUILDI
22 A2.12	DETAIL
2 5 A2.12 3 A2.12 3 4	INTERIO
	MASON
	CMU W
	EXISTI TO BE
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52525252	BATT IN ATTENU
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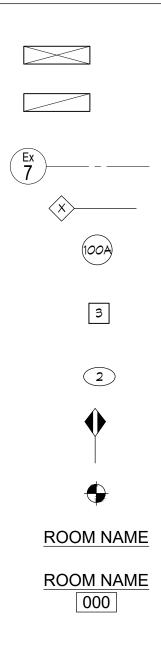
## SECTION, DETAIL, FERIOR ÉLEVATIÓN ING SECTION IOR ELEVATION NRY CAVITY WALL VALL ING CONSTRUCTION DEMOLISHED ING CONSTRUCTION MAIN SURFACES NSULATION / SOUND SEMI-RIGID INSULATION

RETE

CLE BOARD / MDF

DOD / MDO

I WOOD



### WOOD STUDS / BLOCKING (DIMENSIONAL LUMBER) WOOD BLOCKING (NON-DIMENSIONAL)

EXISTING COLUMN GRID

WALL TYPE DOOR NUMBER

### SPECIFIC DEMOLITION NOTE - REFER TO DWGS D1.0, D2.0 & D3.0 SPECIFIC CONSTRUCTION NOTE - REFER TO DWGS A1.0, A2.0 & A3.0

CONTROL JOINT

DATUM

EXISTING ROOM NAME

NEW ROOM NAME & NUMBER

## GENERAL DEMOLITION NOTES:

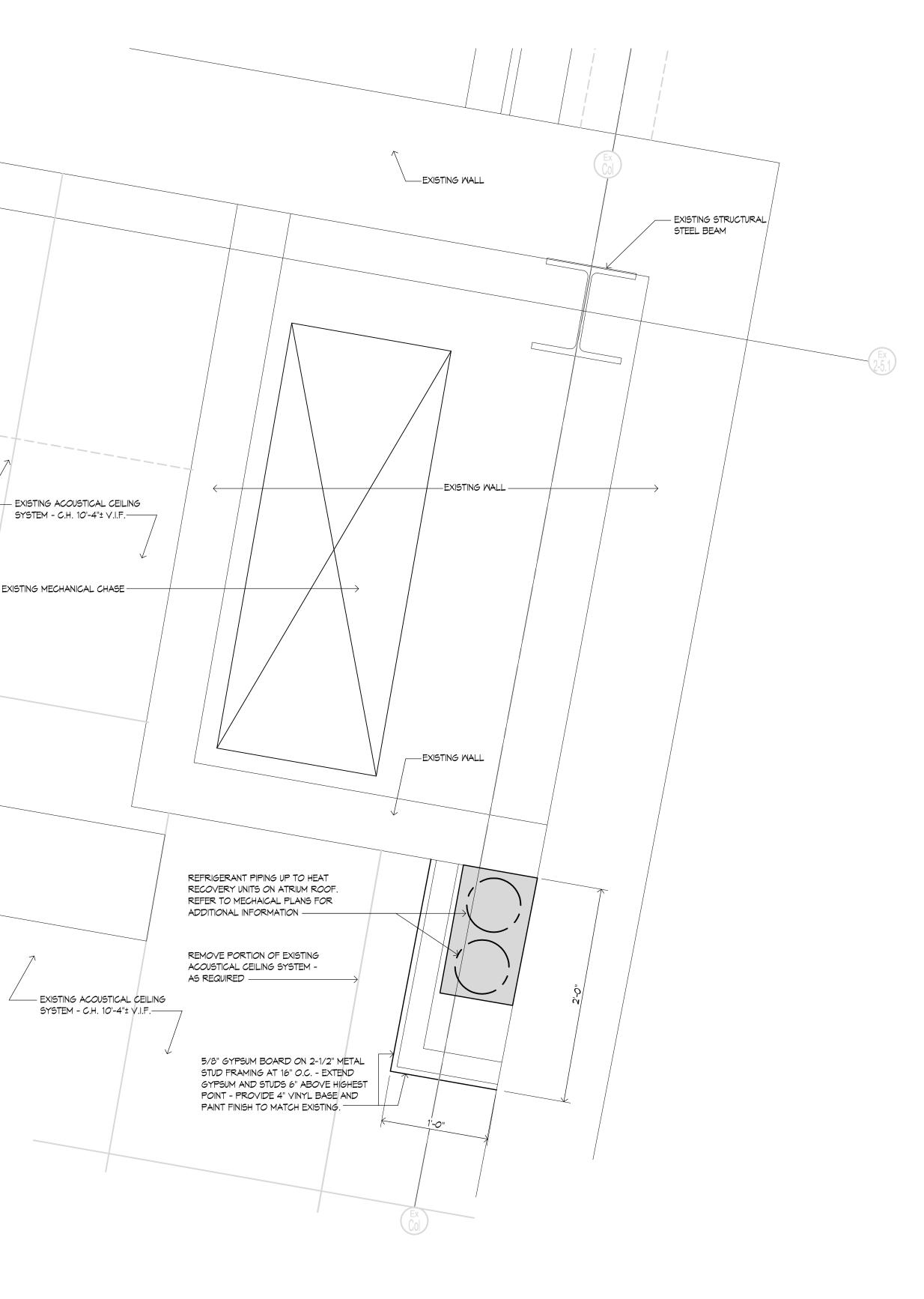
DISPOSAL".

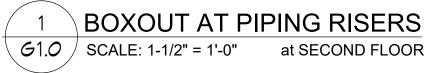
- 1. CONTRACTOR SHALL VISIT THE SITE TO VERIFY AND BE FULLY AWARE OF EXISTING CONDITIONS PRIOR TO START OF WORK. CONTRACTOR SHALL IDENTIFY ALL EXISTING ITEMS OF WORK SCHEDULED TO REMAIN OR SALVAGED FOR REUSE. 2. ALL DEMOLITION WORK AND DISPOSAL OF ALL DEMOLISHED MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL STATE AND LOCAL REGULATIONS. CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED DEMOLITION PERMITS. COORDINATE ALL DISPOSAL WORK WITH SPECIFICATION SECTION 01 74 19 "CONSTRUCTION WASTE MANAGEMENT AND
- 3. COORDINATE ALL DEMOLITION OPERATIONS WITH OWNER FOR SHUTDOWN PERIODS AND SEQUENCE OF WORK. ARRANGE WITH OWNER AND / OR APPROPRIATE UTILITIES FOR SERVICE SHUTOFFS BEFORE BEGINNING DEMOLITION OPERATIONS. PROVIDE TEMPORARY DUST PARTITIONS, BARRICADES AND PROTECTIVE ENCLOSURES REQUIRED TO PROPERLY SECURE, ISOLATE AND WEATHERPROOF AREAS OF WORK AND EXISTING AREAS AND ELEMENTS TO REMAIN. CONTRACTOR SHALL PERFORM THE WORK IN A MANNER THAT CAUSES NO DISRUPTION TO THE CONTINUOUS OCCUPATION OF THE BUILDING AND SITE FOR ITS INTENDED PURPOSE. PROVIDE ADDITIONAL MEASURES TO PREVENT THE MIGRATION OF DUST INTO ADJACENT SPACES.
- 4. THE BUILDING WILL BE OCCUPIED DURING THE ENTIRE CONSTRUCTION PERIOD. THE CONTRACTOR'S CONSTRUCTION SCHEDULE SHALL BE DEVELOPED WITH THE UNDERSTANDING THAT THE BUILDING IS OCCUPIED AND THAT IT CAN NEITHER BE CLOSED NOR CAN THE OWNER'S OPERATIONS STOP. FIRE ALARM & FIRE PROTECTION SYSTEMS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION TO PROVIDE PROTECTION AND NOTIFICATION TO THE BUILDING OCCUPANTS. CONTRACTOR SHALL PROVIDE A FIRE WATCH DURING ALL SHUTDOWNS INCLUDING 24 HOUR SERVICE IF NECESSARY.
- 5. ALL ITEMS SCHEDULED TO BE SALVAGED FOR REUSE SHALL BE REMOVED WITH CARE, STORED AND PROTECTED FROM DAMAGE UNTIL INCORPORATED INTO THE NEW WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE AND / OR RESTORE ANY ITEMS SCHEDULED FOR SALVAGE AND REUSE THAT ARE DAMAGED DURING THE COURSE OF CONTRACT OPERATIONS. THE OWNER SHALL BE THE SOLE JUDGE OF SUITABILITY OF ITEMS SALVAGED FOR REUSE IN THE WORK.
- 6.IT IS NOT THE INTENT TO SHOW EVERY PIECE OR ITEM TO BE REMOVED IN DEMOLITION WORK. MECHANICAL, ELECTRICAL, PLUMBING AND OTHER WORK RELATED TO A WALL OR OTHER DEMOLITION ITEM SHALL BE REMOVED WHETHER INDICATED OR NOT 7. EXISTING CEILING ITEMS (i.e. INCLUDING BUT NOT LIMITED TO SMOKE DETECTORS, SPEAKERS, ETC.) SCHEDULED TO REMAIN AND
- TO REMAIN OPERATIONAL DURING CONSTRUCTION SHALL BE TEMPORARILY SUPPORTED. 8. THE EXTENT OF ALL SPECIFIC CONSTRUCTION WORK SHALL BE COORDINATED WITH THE CONTRACT DOCUMENTS. 9. CONTRACTOR TO PATCH, REPAIR AND REFINISH ALL SURFACES EXPOSED BY DEMOLITION WORK WITH MATERIALS AND METHODS
- TO MATCH THE EXISTING FINISH AND MAKE FLUSH WITH THE EXISTING ADJACENT SURFACES. WORK SHALL INCLUDE ALL LABOR AND MATERIALS ON ALL SURFACES REQUIRED TO RENDER SUBSTRATES ACCEPTABLE TO RECEIVE NEW FINISHES SPECIFIED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS. 10. WHERE EXISTING FINISHES ARE INDICATED TO REMAIN AS BASE MATERIAL SURFACES FOR INSTALLATION OF NEW FINISHES,

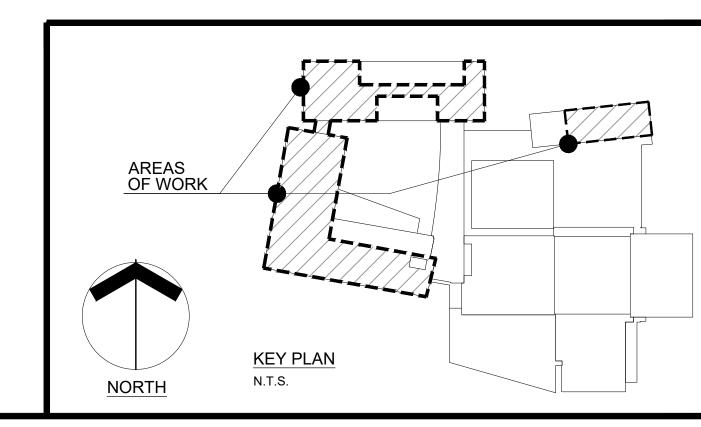
REMOVE ALL PROJECTIONS AND VOIDS AND SECURE OR REMOVE AND REPLACE ANY EXISTING LOOSE OR OTHERWISE UNSUITABLE SUBSTRATE MATERIAL 11. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY CONDITIONS WIHICH WOULD PREVENT THE EXECUTION OF THE PROPOSED WORK INDICATED.

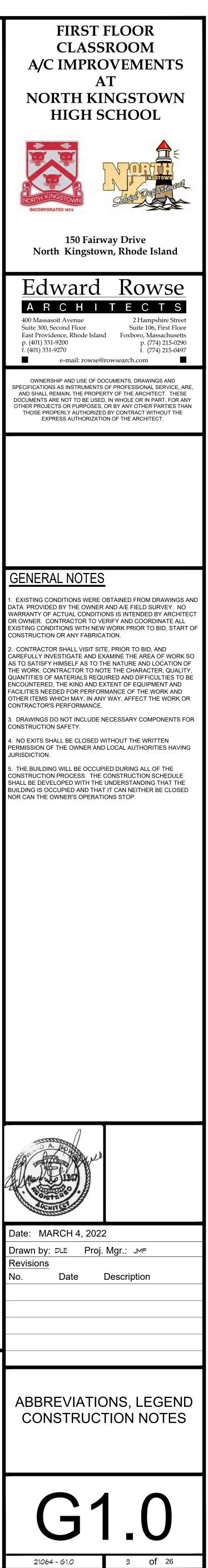
## SPECIFIC DEMOLITION / CONSTRUCTION NOTES:

- 1 REMOVE EXISTING SUSPENDED ACOUSTIC CEILING TILES AND GRID SYSTEM AT LOCATIONS IDENTIFIED ON THE ARCHITECTURAL DRAWINGS (A1.3, A1.4, A1.5, AND A1.6) AS NECESSARY TO ACCOMMODATE INSTALLATION OF MECHANICAL CEILING VRF CONSOLE CASSETTE EQUIPMENT ASSEMBLY, AS SHOWN ON MECHANICAL AND ELECTRICAL DRAWINGS. REMOVE AND SALVAGE CEILING TILES AND GRID FOR RE-INSTALLATION.
- PROVIDE TEMPORARY SUPPORT(S) AS NECESSARY FOR ALL EXISTING CEILING MOUNTED ITEMS TO REMAIN IN PLACE DURING CONSTRUCTION WORK FOR THIS PROJECT. THE CEILING SPACE CONTAINS MISCELLANEOUS ITEMS SUCH AS, BUT NOT LIMITED TO, WIRING, CONDUITS, PIPING, ETC. WHICH SHALL BE TEMPORARILY SUPPORTED AND PROTECTED DURING CONSTRUCTION OPERATIONS AND SHALL BE OPERABLE AFTER MECHANICAL AND ELECTRICAL WORK IS COMPLETED.
- 3 REMOVE AND RE-INSTALL EXISTING SUSPENDED ACOUSTIC CEILING SYSTEM TILES AT LOCATIONS IDENTIFIED ON THE ARCHITECTURAL REFLECTED CEILING PLANS. EXISTING CEILING GRID AND/OR CEILING TILES THAT ARE DAMAGED SHALL BE REPLACED TO MATCH EXISTING (REFER TO SPECIFICATION SECTION 09 51 13 "ACOUSTICAL PANEL CEILINGS") AT NO COST TO THE OWNER. CONTRACTOR SHALL CARRY COST IN THEIR BID TO REPLACE UP TO 5% OF THE TOTAL ACOUSTICAL CEILING TILES AND GRID THAT WILL BE REMOVED AND RE-INSTALLED.
- PROVIDE TEMPORARY PROTECTION AT EXISTING CEILING, WALL AND FLOOR FINISHES AS OCCURS TO PREVENT DAMAGE DUE TO CONSTRUCTION OPERATIONS. FINISHES THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO SATISFACTION OF THE OWNER. 5 REMOVE EXISTING GYPSUM BOARD CEILING AND STEEL STUD FRAMING ASSEMBLY AS
- NECESSARY TO ACCOMMODATE INSTALLATION OF MECHANICAL AND/OR ELECTRICAL WORK AFTER MECHANICAL AND/OR ELECTRICAL WORK IS COMPLETED, INFILL OPENINGS WITH NEW PROPOSED STEEL STUD FRAMING (PROVIDE 2-1/2", 20GA. STEEL STUDS AT 16" O.C.) AND 5/8" GYPSUM BOARD TO MATCH EXISTING. PAINT ENTIRE CEILING AREA WITH "NO VOC" PAINT SYSTEM - REFER TO SPECIFICATION SECTION 09 91 00 "PAINTING" - FIELD VERIFY CEILING PAINT SHEEN AND COLOR TO MATCH EXISTING.
- 6 PREPARE, PATCH AND PAINT WALL AT LOCATION AS REQUIRED AT PROPOSED MECHANICAL THERMOSTAT INSTALLATION. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION FOR THERMOSTAT LOCATIONS. PAINT WALL AREA WITH "NO VOC" PAINT SYSTEM REFER TO SPECIFICATION SECTION OF 100 "PAINTING" FIELD VERIFY EXISTING WALL PAINT SHEEN AND COLOR TO MATCH EXISTING.
- 7 CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARILY MOVING ALL NON-FIXED CLASSROOM FURNITURE AND EQUIPMENT AS REQUIRED TO INSTALL PROVIDED MECHANICAL AND/OR ELECTRICAL WORK AND MOVE ALL NON-FIXED FURNITURE AND EQUIPMENT BACK TO THEIR ORIGINAL LOCATIONS ONCE THE WORK IS COMPLETED.
- 8 PROVIDE FIRE-STOP ASSEMBLY AT ALL FLOOR SLAB / ROOF DECK PENETRATIONS AT NEW MECHANICAL AND/OR ELECTRICAL PIPING PENETRATIONS ASSOCIATED WITH PROPOSED VRF RISER WORK AS SHOWN ON THE MECHANICAL AND ELECTRICAL DRAWINGS. REFER TO SPECIFICATION SECTION 07 84 13 "PENETRATION FIRE-STOPPING" FOR ADDITIONAL INFORMATION.
- ) ALL CORRIDOR GYPSUM BOARD / METAL STUD WALL PARTITION ASSEMBLIES ARE SMOKE PARTITIONS ALL PROPOSED MECHANICAL AND/OR ELECTRICAL PIPING PENETRATIONS SHALL BE SELEVIN AT THEIR PERIMETER WITH MINERAL WOOL AND ACOUSTIC SEALANT AT EACH SIDE OF THE WALL. (10)
- ALL CLASSROOM GYPSUM BOARD / METAL STUD PARTY WALL PARTITION ASSEMBLIES ARE ACOUSTIC PARTITIONS ALL PROPOSED MECHANICAL AND/OR ELECTRICAL PIPING PENETRATIONS SHALL BE SEALED AT THEIR PERIMETER WITH MINERAL WOOL AND ACOUSTIC SEALANT AT EACH SIDE OF THE WALL.
- PROVIDE FIRE-STOP ASSEMBLY AT ALL EXISTING FIRE RATED WALL PENETRATIONS AT NEW MECHANICAL AND/OR ELECTRICAL PIPING PENETRATIONS. REFER TO SPECIFICATION SECTION 07 84 13 "PENETRATION FIRE-STOPPING" FOR ADDITIONAL INFORMATION. 12 REMOVE AND DISPOSE OF A SECTION OF EXISTING FULLY ADHERED TPO ROOF SYSTEM WITH FIBER BOARD PROTECTION, TAPERED RIGID INSULATION AS OCCURS DOWN TO EXISTING GYPSUM SHEATHING FULL LENGTH OF SPECIFIED SLEEPER DIMENSION AS SHOWN ON DETAIL 3/A1.7.
- ) PROVIDE NEW CONTINUOUS CARLISE SURE-WELD WALKWAY AROUND PERIMETER OF ALL NEW EQUIPMENT LOCATIONS (CUT AS REQUIRED, I.E. DRAINS, SUPPORTS, ETC.) AS INDICATED ON DRAWING A1.7 - PROVIDE CONTINUOUS PRIMER PAD UNDER NEW WALKWAY AND CLEAN/ PREP EXISTING TPO MEMBRANE IN ACCORDANCE WITH CARLISE SURE-WELD'S WRITTEN INSTRUCTIONS.









			<u>D. 9</u>			
	ALL METHODS OF CONSTRUCTION, DETAILS, NOTES, E CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.	TC., INDICATED ON THE DRAWINGS ARE TO BE	1.	DESIGN FABRICATION AND ERECTION SH		SPECIFICATION FOR B
	CONSTRUCTION SHALL BE MADE FROM APPROVED SHO	P DRAWINGS ONLY.	2.	NEW STRUCTURAL STEEL SHALL CONFOR A) STRUCTURAL STEEL	M TO THE FOLLOWING: A572 OR A992 GR. 50	Fy=50 KSI
•	ANY DISCREPANCIES ON THESE PLANS WITH REGARD TO THE ATTENTION OF THE ENGINEER BEFORE PROCEE			B) TYPICAL PLATES AND ANGLES C) STRUCTURAL TUBING	ASTM A36 ASTM A500, GR. B	Fy=36 KSI Fy=46 KSI
	ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REG FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFE BUILDING CODE.			D) HIGH STRENGTH BOLTS E) CAST-IN-PLACE ANCHOR RODS F) HEADED STUDS G) DRILL & EPOXY ANCHOR RODS	ASTM F3125 (GR. A325 TYPE I) F1554 (GRADE 36) A108 GR. 50 A449	Fy=92 KS Fy=36 KS Fy=50 KS Fy=92 KS
	THE LATEST EDITION OF THE FOLLOWING LISTED COD RIGID REQUIREMENTS AND CODES SHALL GOVERN.	ES SHALL APPLY. IN CASE OF CONFLICT, THE MORE	3. 4.	SHAPES NOTED "GALV." ON DRAWINGS S	OT SPECIFICALLY DETAILED ON THE	PLANS SHALL BE DES
	* RHODE ISLAND STATE BUILDING CODE (STAT EDITION AND ITS APPLICABLE REFERENCED S	TANDARDS.		IN ACCORDANCE WITH THE CURRENT ED DESIGN (ASD)". DESIGN FOR ALL CONNE CONTRACTOR AND SUBMITTED TO THE A DESIGNED TO DEVELOP (1/2) OF MEMBER	CTIONS SHALL BE STAMPED BY A RI RCHITECT/ENGINEER FOR REVIEW PR	PROFESSIONAL ENGINIOR TO FABRICATION
	* AMERICAN INSTITUTE OF STEEL CONSTRUCTI PRACTICE (AISC)	ON SPECIFICATIONS AND ITS CODE OF STANDARD	5.	ALL BOLTED CONNECTIONS SHALL USE 3	/4" DIA., A-325-N TYPE I BOLTS, UNLI	ESS NOTED OTHERWI
).	THE DESIGN LOADS ARE RESISTED BY THE COMPLETED SHALL DESIGN AND PROVIDE ANY AND ALL TEMPORAR' REINFORCEMENT NECESSARY TO RESIST LOADS IMPOS THROUGHOUT ALL STAGES OF CONSTRUCTION. THE S	Y BRACING, SHORING, OR ADDITIONAL ED ON ANY PORTION OF THE STRUCTURE	6.	ALL NEW STRUCTURAL STEEL SHALL BE O MANUFACTURER'S RECOMMENDATIONS, I BEAMS THAT RECEIVE SHEAR STUDS. SH SURFACES) OR SSPC-SP6 (EXTERIOR SUF	JNLESS NOTED OTHERWISE (SEE NOT OP PAINTING OF STRUCTURAL STEEL	FE 8 BELOW). DO NO
	LOADS AND ANY APPLICABLE CONSTRUCTION LOADS.		7.	AFTER ERECTION IS COMPLETE, TOUCH-L ALL FIELD WELDS USING THE SAME PAIN		D DURING TRANSPOR
	ENGINEER. NOTES AND TYPICAL DETAILS APPLY TO ALL STRUCTUR	AL WORK UNLESS OTHERWISE NOTED. FOR	8.	ANY STRUCTURAL STEEL TO RECEIVE SPE COATINGS. COORDINATE WITH THE ARC		
	CONDITIONS NOT SPECIFICALLY SHOWN PROVIDE DET SUBMITTING SHOP DRAWINGS FOR REVIEW.		9. 10.	ALL EXPOSED STRUCTURAL STEEL AND C		
N	PLANS SHALL NOT BE SCALED FOR DIMENSIONS. ARCHITECTURAL AND MEP DRAWINGS MUST BE USED I		201	WITH AISC SPECIFICATION FOR STRUCTU THE ELEMENT TURNED IN TIGHTENING.		
~ •	DURING ALL PHASES OF CONSTRUCTION.	SOUGHOUTON THE STRUCTURAL DRAWINDS	11.	WELDS SHALL BE MADE ONLY BY OPERAT WELDING SOCIETY.	ORS CERTIFIED BY THE STANDARD Q	UALIFICATION PROCE
, г	DESIGN LOADS		12.	WELDING: IN ACCORDANCE WITH LATES SERIES ELECTRODES UNLESS NOTED OTH		ELDING IN BUILDING
	GENERAL:		13.	FIELD WELDING OF STRUCTURAL MEMBER		FICALLY INDICATED.
	BUILDING RISK CATEGORY		14.	FURNISH AND INSTALL ONE WASHER ANI INDICATED.	O ONE HEAVY HEX NUT WITH ASTM F1	.554 ANCHOR BOLTS
•	ROOF LIVE LOADS (SNOW): IMPORTANCE FACTOR GROUND SNOW LOAD (Pg)		15.	PROVIDE FITTED WELDED 3/8" WEB STIF OTHERWISE.	FENER PLATES ON EACH SIDE OF ALL	BEAMS SEATED ON V
	GROUND SNOW LOAD (Pg) FLAT ROOF SNOW LOAD (Pf) EXPOSURE FACTOR (Ce). THERMAL FACTOR (Ct).		16.	FIELD CUTTING OR MODIFICATION OF ST FROM THE ENGINEER.	RUCTURAL STEEL IS PROHIBITED UNL	ESS PRIOR WRITTEN
	WIND LOADS: ULTIMATE WIND DESIGN SPEED (Vult)	147 mph	17.	SURFACES OF GALVANIZED MEMBERS TO UP AFTER WELDING.	BE WELDED SHALL BE GROUND TO B	ARE METAL PRIOR TO
	NOMINAL DESIGN WIND SPEED (Vasd) EXPOSURE CATEGORY. ENCLOSED BUILDING (Gcpi).	······ 114 mph		MINIMUM FILLET WELD (LEG) SIZE SHALL		
	EARTHQUAKE LOADS: IMPORTANCE FACTOR		19.	SHEARED ENDS OF GALVANIZED PRETEN IN ACCORDANCE WITH ASTM A780 AFTER		IALL BE TOUCHED UP
2 <u>.</u> S	TEEL DECKS	EQUIVALENT LATERAL FORCE PROCEDURE STRUCTURAL STEEL SYSTEM NOT SPECIFICALLY DESIGNED FOR SEISMIC RESISTANCE (R=3)	ADI ARC BOF CFM CIP CLR COL CON CMI CJ	CH ARCHITECT BOTTOM OF FOOTING IF COLD FORMED METAL FRAMING CAST-IN-PLACE CLEAR COLUMN NC. CONCRETE J CONCRETE MASONRY UNIT CONTROL JOINT	LONG.LONGITUDINALL.W.LONG WAYMAX.MAXIMUMM.C.MOMENT CONNECTIONMECHMECHANICALMIN.MINIMUMMTLMETALNFNEAR FACENTSNOT TO SCALEO.C.ON CENTERR & DREMOVE AND DISPOSE	
	ALL STEEL DECKING SHALL CONFORM TO THE STEEL DI AND REQUIREMENTS. INSTALLATION SHALL BE PER TH ACCORDANCE WITH SDI SPECIFICATIONS. PROVIDE SI THICKNESS (SEE TYPICAL DETAILS).	E MANUFACTURER'S RECOMMENDATIONS IN	COI DIA DW DW	IST. JT. CONSTRUCTION JOINT IT. CONTINUOUS DIAMETER L'S DOWELS G DRAWING	R & DREINFORCINGREINF.REINFORCINGSJSAWN JOINTTOCTOP OF CONCRETETOFTOP OF FOOTINGTOWTOP OF WALLTSLTOP OF SLAB	
	STEEL DECK SHALL TYPICALLY BE STORED OFF THE GREELE DECK SHALL TYPICALLY BE STORED FOR THE GREELE DECK SHALL TYPICALLY BE STORED FOR THE GREE DECK SHALL TYPICALLY BE STORED FOR THE GREE DECK SHALL TYPICALLY SHALL TYPICALLY BE STORED FOR THE GREE DECK SHALL TYPICALLY SHALLY SHALLY SHALL TYPICALLY SHALLY SHAL		EA. E.F. E.W EL. EQ.	EACH WAY ELEVATION	TST TOP OF SLAB TST TOP OF STEEL TYP. TYPICAL U.N.O. UNLESS NOTED OTHERWISE V.I.F. VERIFY IN FIELD	
	DECK SHEETS SHALL BE PLACED IN ACCORDANCE WITH FASTENING SCHEDULE) SUPPLIED BY THE DECK MANUF MANUFACTURER'S STANDARDS. UNLESS NOTED OTHEF SHALL NOT BE LESS THAN 2" MINIMUM.	ACTURER AND IN CONFORMANCE WITH THE	FFE FNC FTG GA. GAL	FINISH FLOOR ELEVATION FOUNDATION FOOTING GAUGE V. GALVANIZED	WWF WELDED WIRE FABRIC W/ WITH W.P. WORKING POINT	
1.	ALL STEEL TO BE USED FOR DECKING SHALL BE GALVA	NIZED.	HOF HSS I.F.	HOLLOW STRUCTURAL SHAPE		
5.	DECK GAUGE, DEPTH, AND TYPE SHALL BE AS INDICAT	ED ON THE DRAWINGS.				
	SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL					
•	DECK SPANS ARE DESIGNED TO MINIMIZE SHORING RE FOR ACCOMPLISHING ANY SHORING REQUIRED TO RES	IST CONSTRUCTION LOADS ON THE STEEL DECKS.				
	ROOF DECK WAS SELECTED ASSUMING TRIPLE SPAN CO PROVIDE 20 GA., GALV. STEEL PLATES AT ALL RIDGES,			Le SUPPORT Le SUPPO	RT & SUPPORT	E SUPPO
0.	DIRECTION FOR CONTINUOUS EVEN SURFACE. USE WELD WASHERS WHERE RECOMMENDED BY THE D	ECK MANUFACTURER.			PROVIDE L4x4x3/8 UNDER	
1.	USE FM-APPROVED STEEL ROOF DECK. FASTENING PA CLASS I-90 AND AS INDICATED BELOW (TYPICAL UNLE				ALL CURBS (SEE CURB SUPPORT DETAIL)	
	1 1/2" ROOF DECK: SUPPORTS: 5/8" PUDDLE WELD, 36/7 PATTER SIDE LAPS: #10 TEK SCREWS @ 6" O.C. (MA)					
				PROVIDE L4x4x3/8 AT ALL DUCTS —		MECHANICA (SEE MECH I
					<u>PLAN</u>	
						MECHAN

R BUILDINGS.

ESIGNED BY THE CONTRACTOR - ALLOWABLE STRENGTH GINEER ENGAGED BY THE ION. CONNECTIONS SHALL BE NOTED OTHERWISE.

IED IN ACCORDANCE WITH NOT PAINT TOP FLANGES OF TO SSPC-SP2 (INTERIOR

ORT AND ERECTION, AND PRIME

ANY PRIMER OR PAINT ED TO FIREPROOFING.

APPROVED PAINT SYSTEM.

THE BOLT IN CONFORMANCE ONE HARDENED WASHER UNDER

OCEDURE OF THE AMERICAN

ING CONSTRUCTION. USE E70

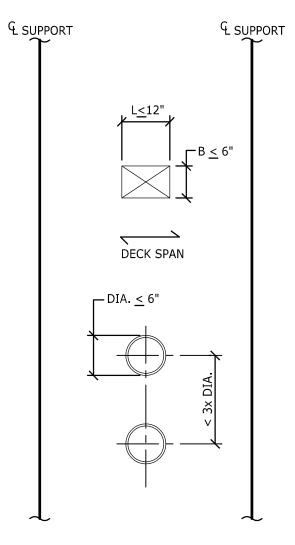
TS UNLESS OTHERWISE

N WALLS UNLESS NOTED

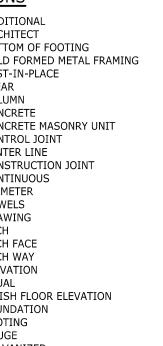
TEN APPROVAL IS RECEIVED

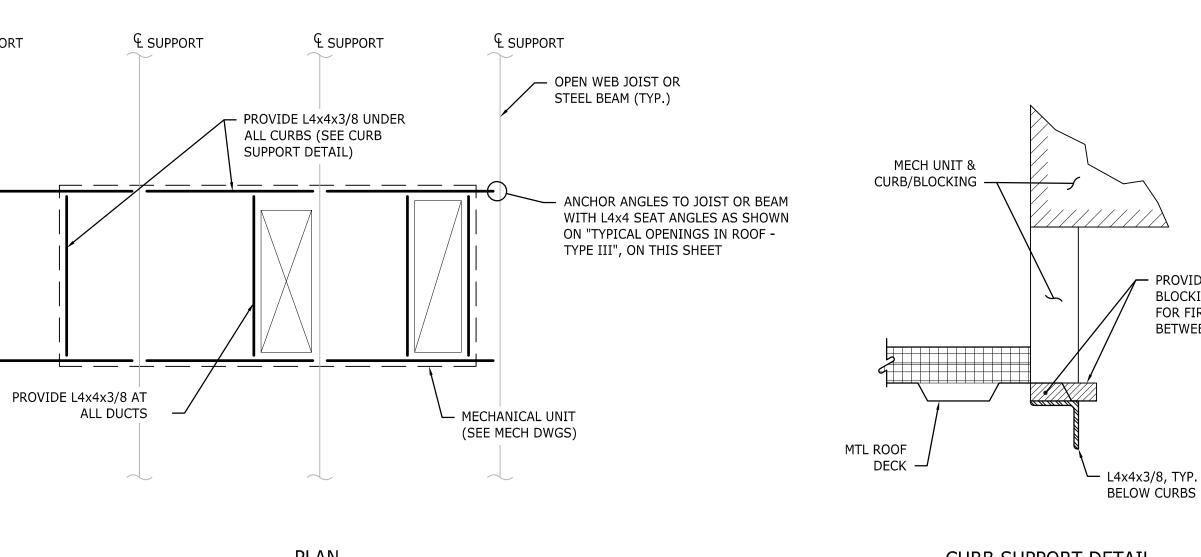
R TO WELDING, AND TOUCHED

UP WITH A ZINC RICH PRIMER



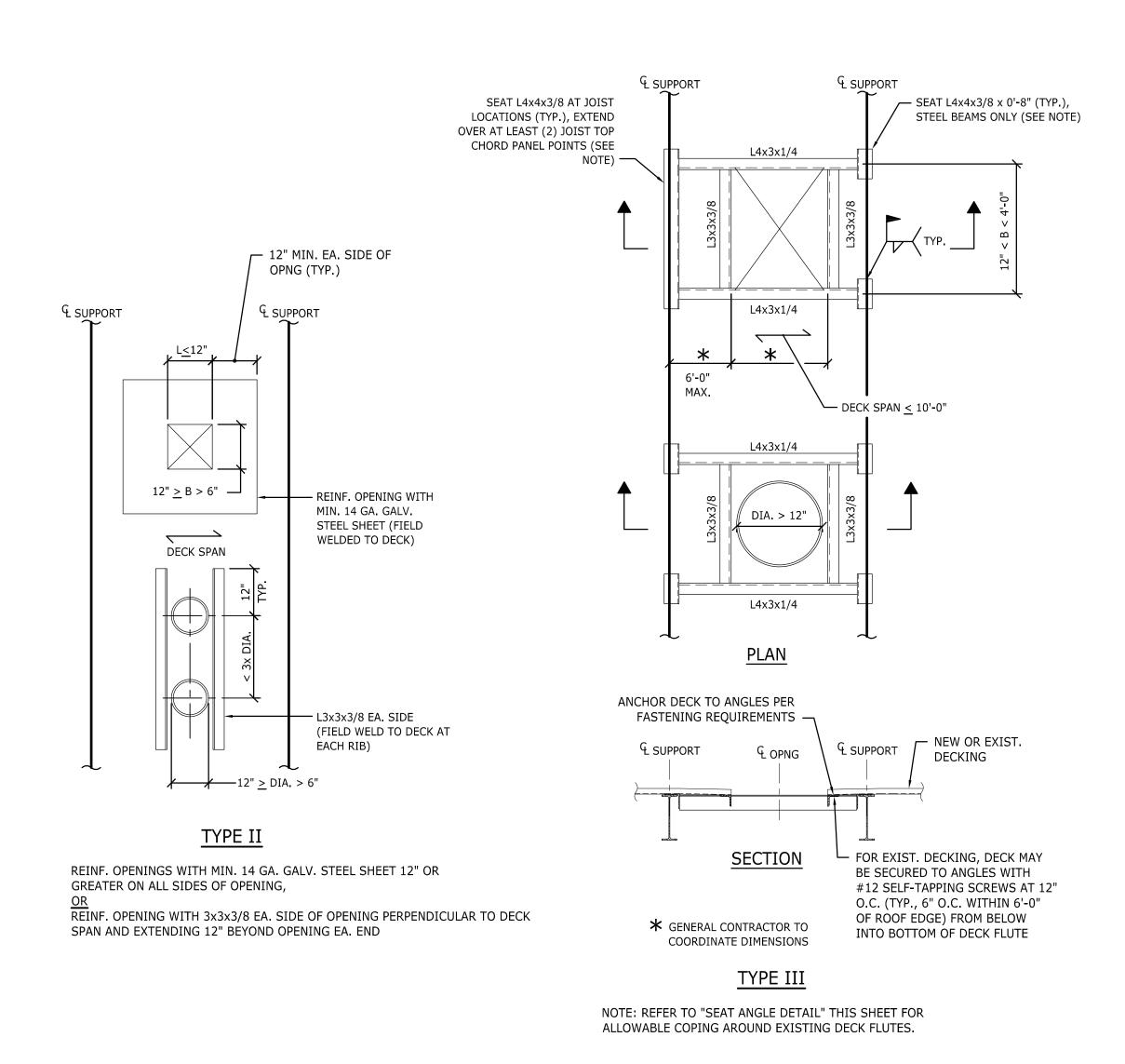
<u>TYPE I</u> NO REINF. REQ'D FOR OPENINGS (METAL DECK CONTRACTOR SHALL PROVIDE DECK CLOSURE AT ALL PIPE CHASES)





### ANICAL UNIT SUPPORT DETAILS NOT TO SCALE

CURB SUPPORT DETAIL



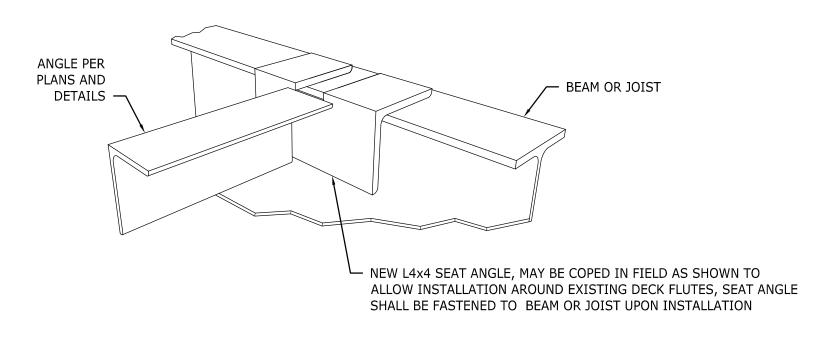
### TYPICAL OPENINGS IN ROOF NOT TO SCALE

GENERAL NOTES:

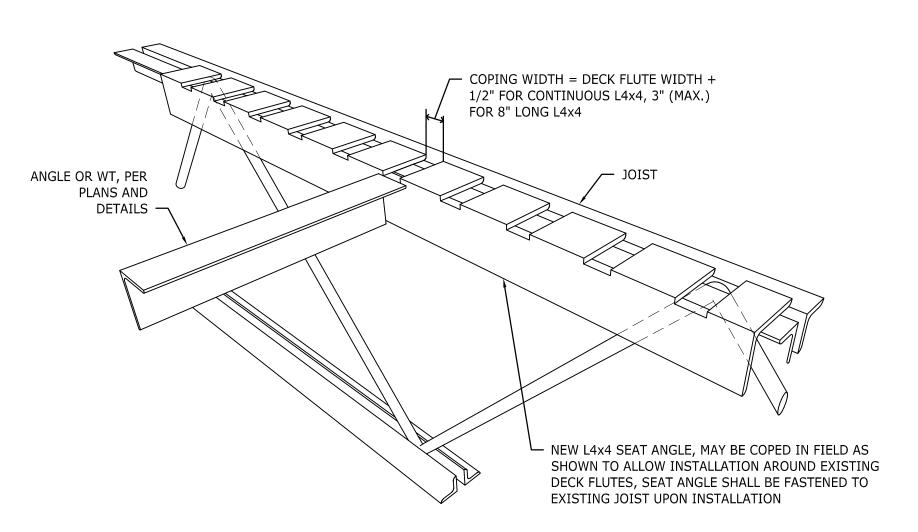
EQUIPMENT, SKYLIGHTS, HATCHES, ETC.

1. OPENINGS OUTSIDE THE LIMITS ABOVE SHALL BE FRAMED WITH STRUCTURAL STEEL. OPENING SIZES AND LOCATIONS TO BE SUBMITTED TO STRUCTURAL ENGINEER.

2. PROVIDE SOLID P.T. BLOCKING WITHIN ROOF DECK RIBS UNDER ALL CURBS FOR ROOFTOP

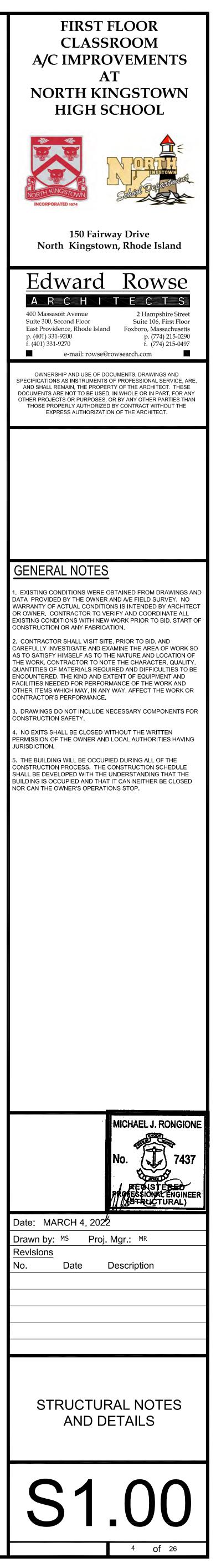


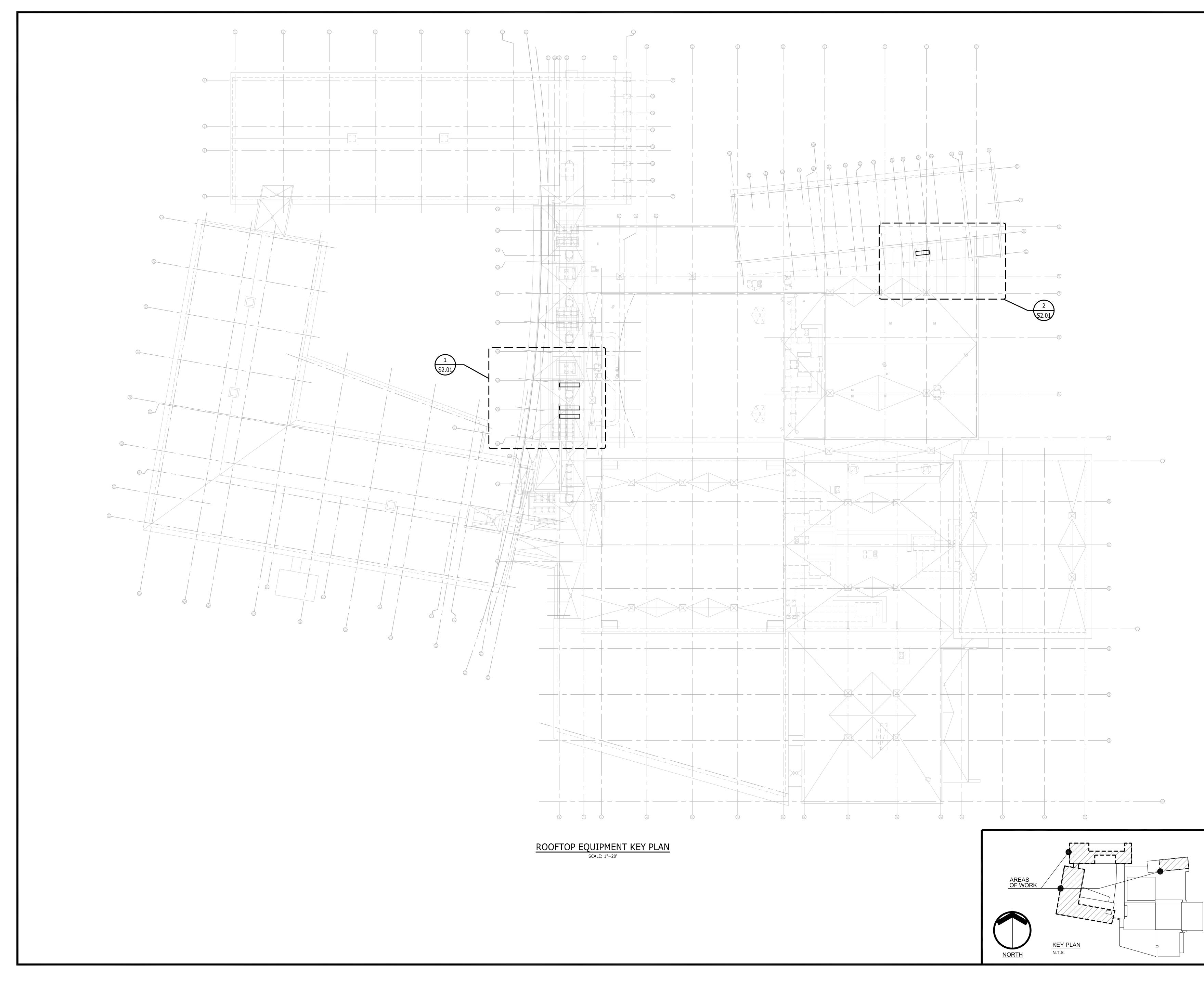
SEAT ANGLE AT BEAM DETAIL NOT TO SCALE

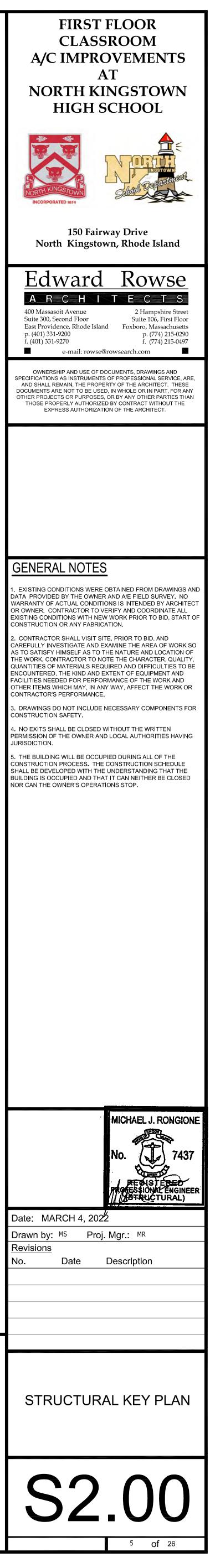


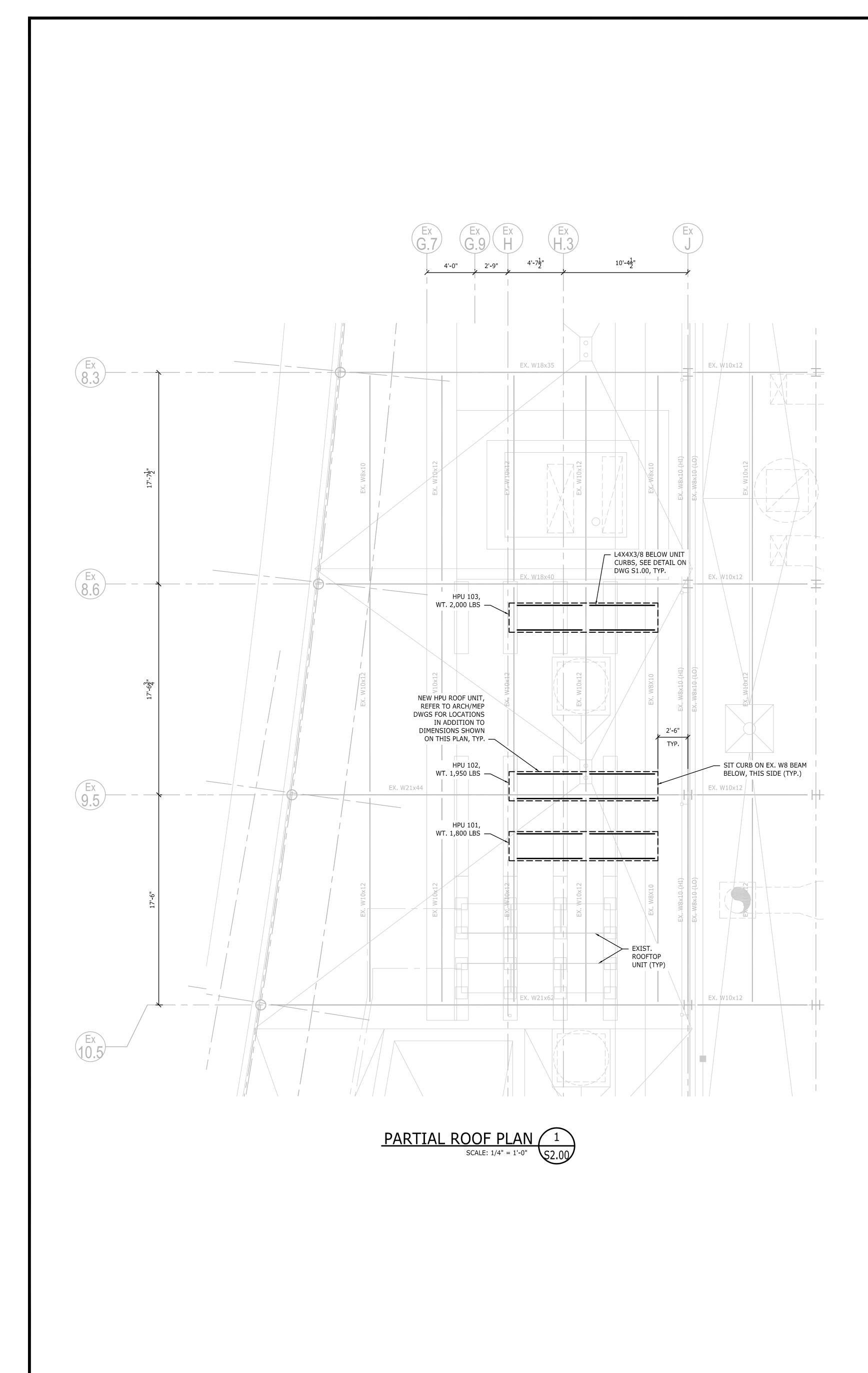
SEAT ANGLE AT JOIST DETAIL NOT TO SCALE

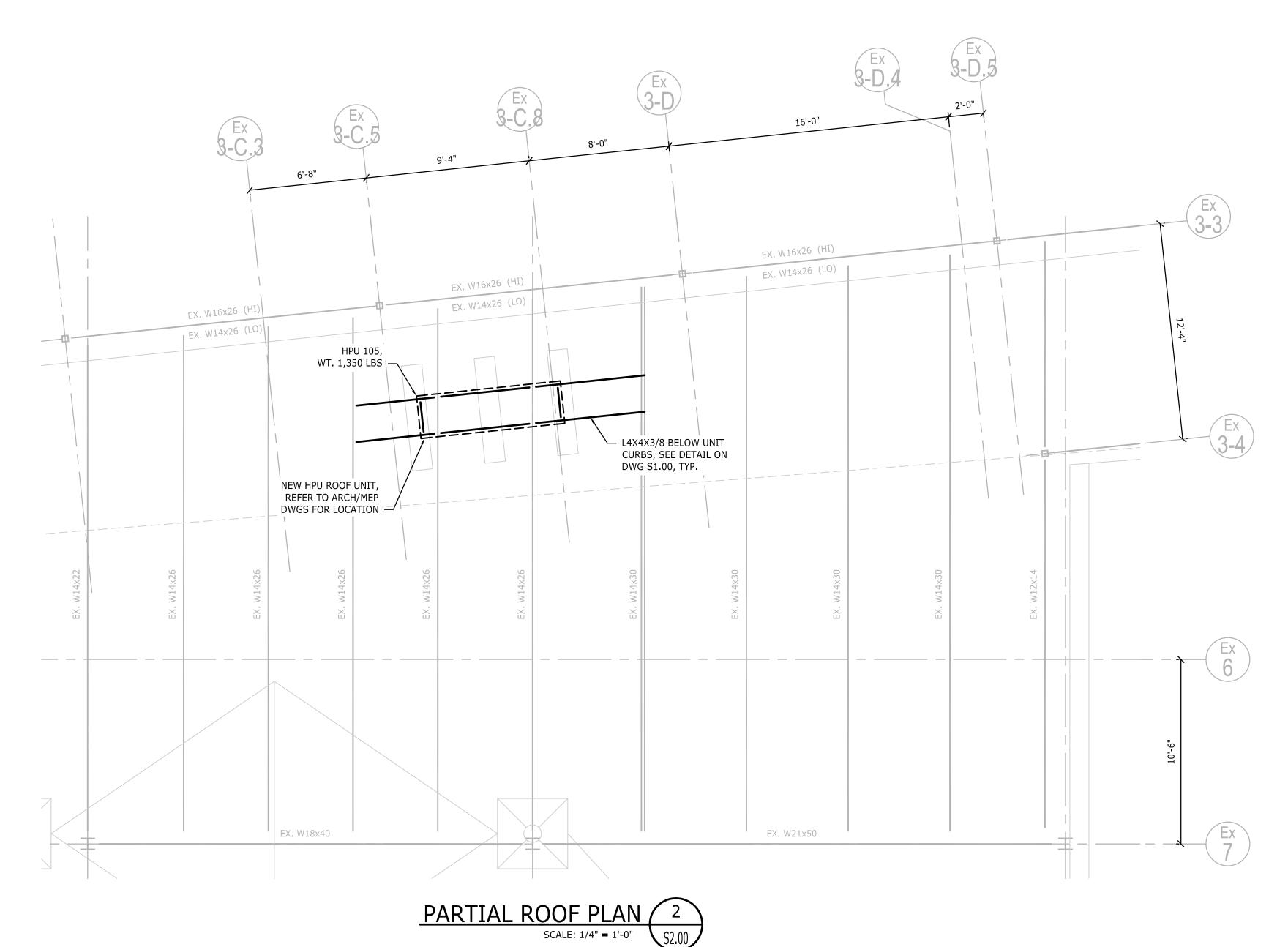
PROVIDE P.T. WOOD BLOCKING IN DECK RIBS FOR FIRM BEARING BETWEEN CURB AND ANGLE

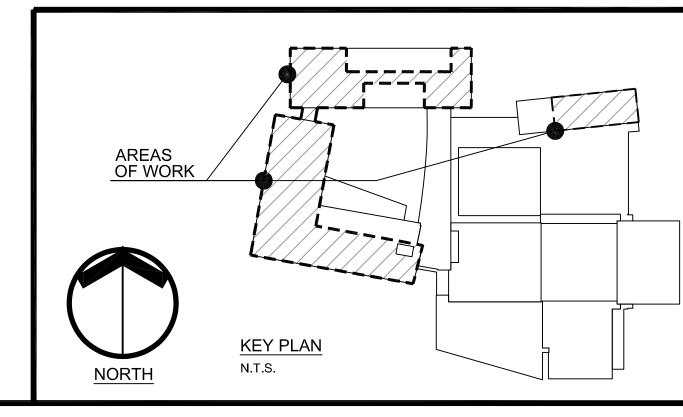


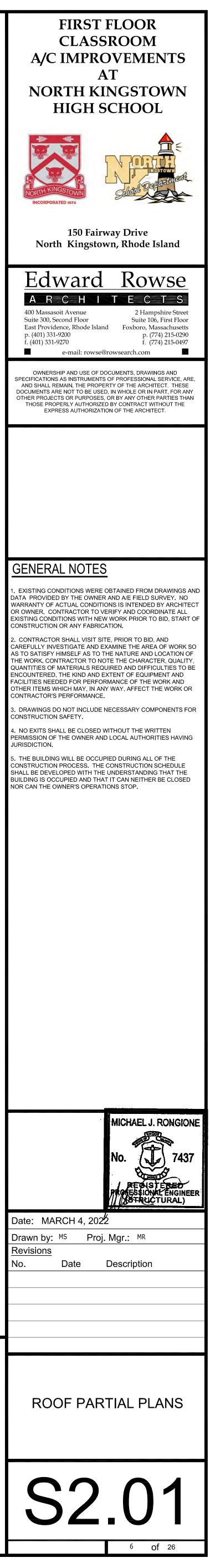




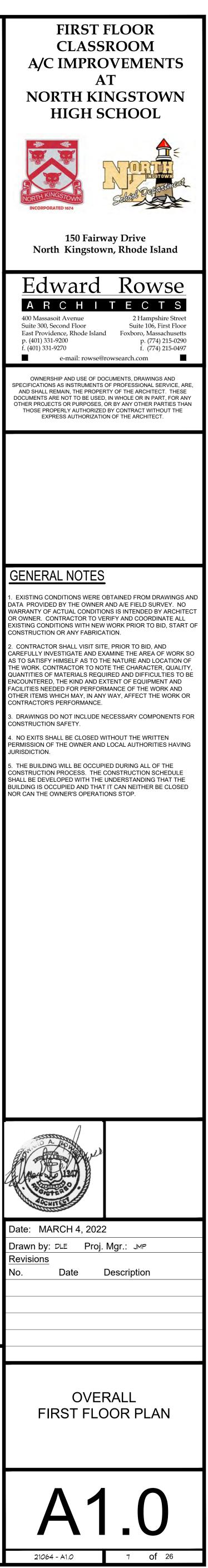


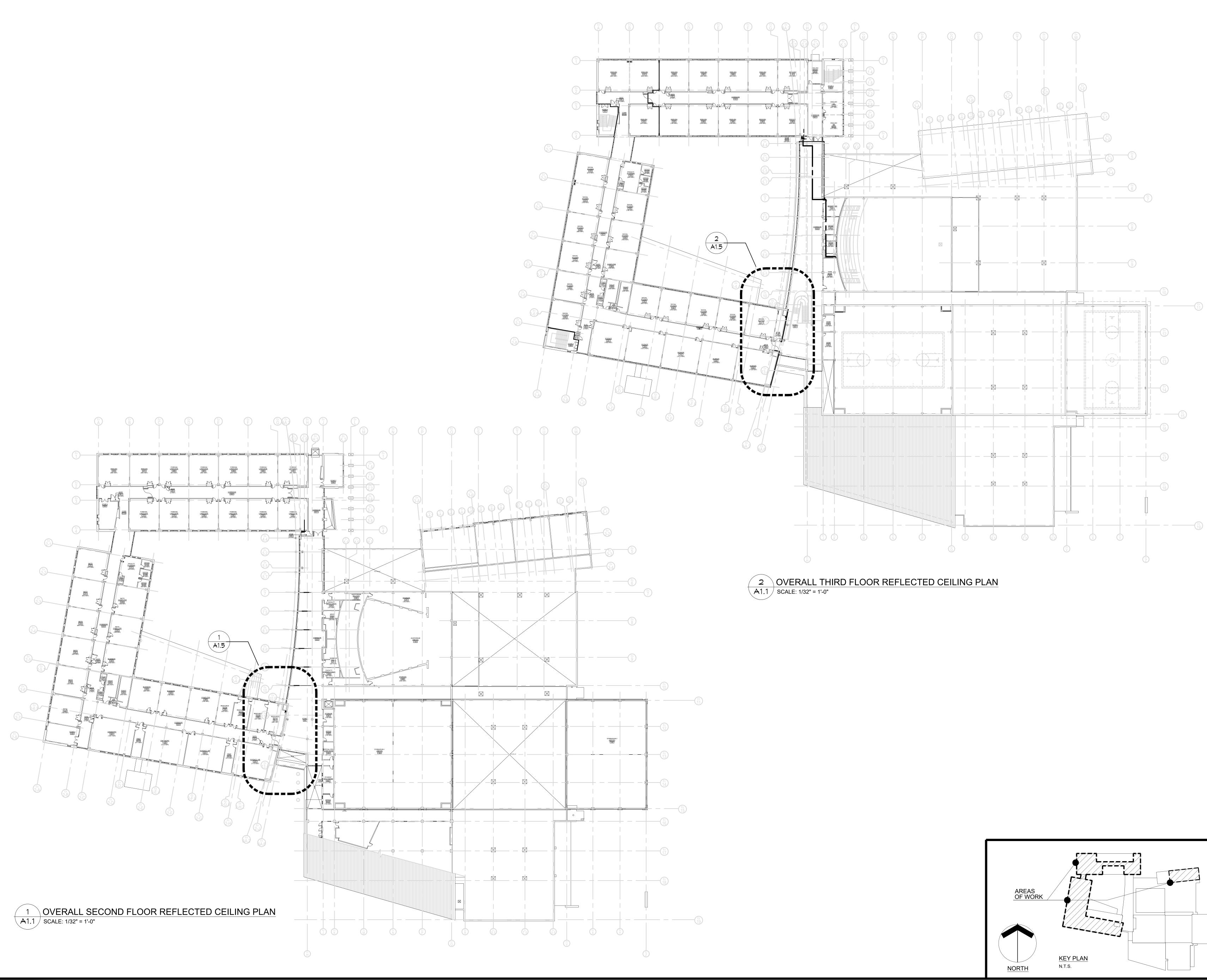


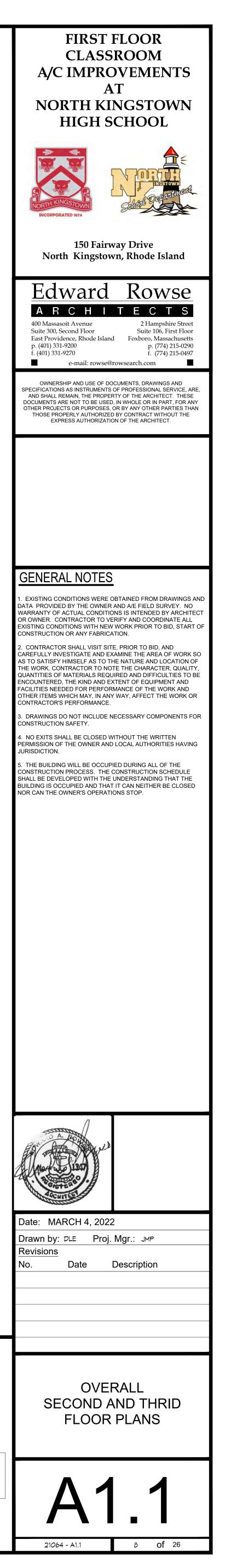


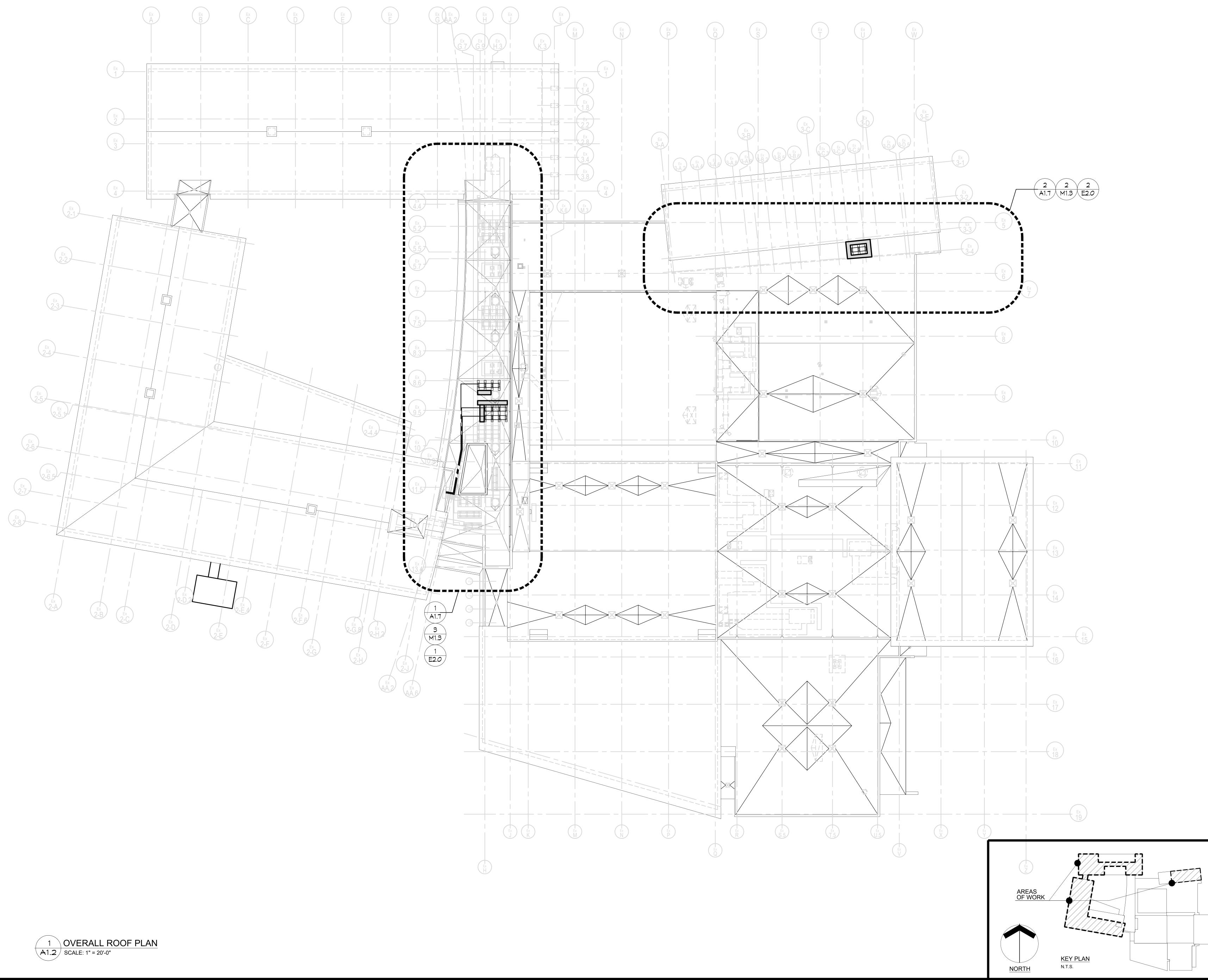


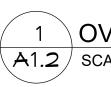


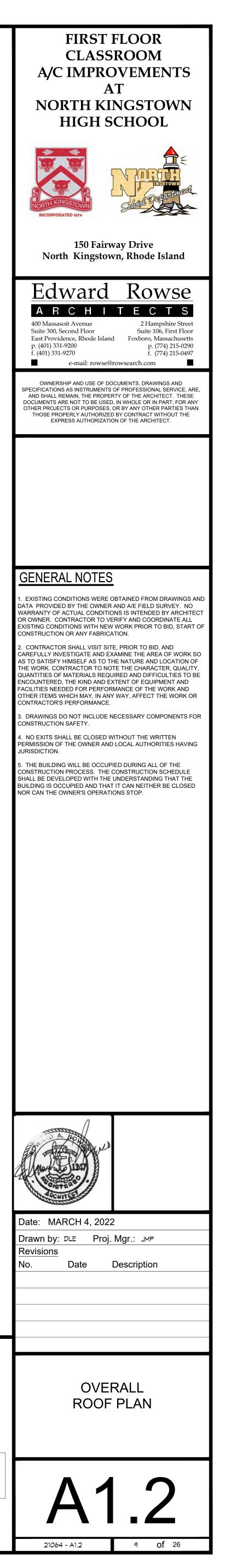


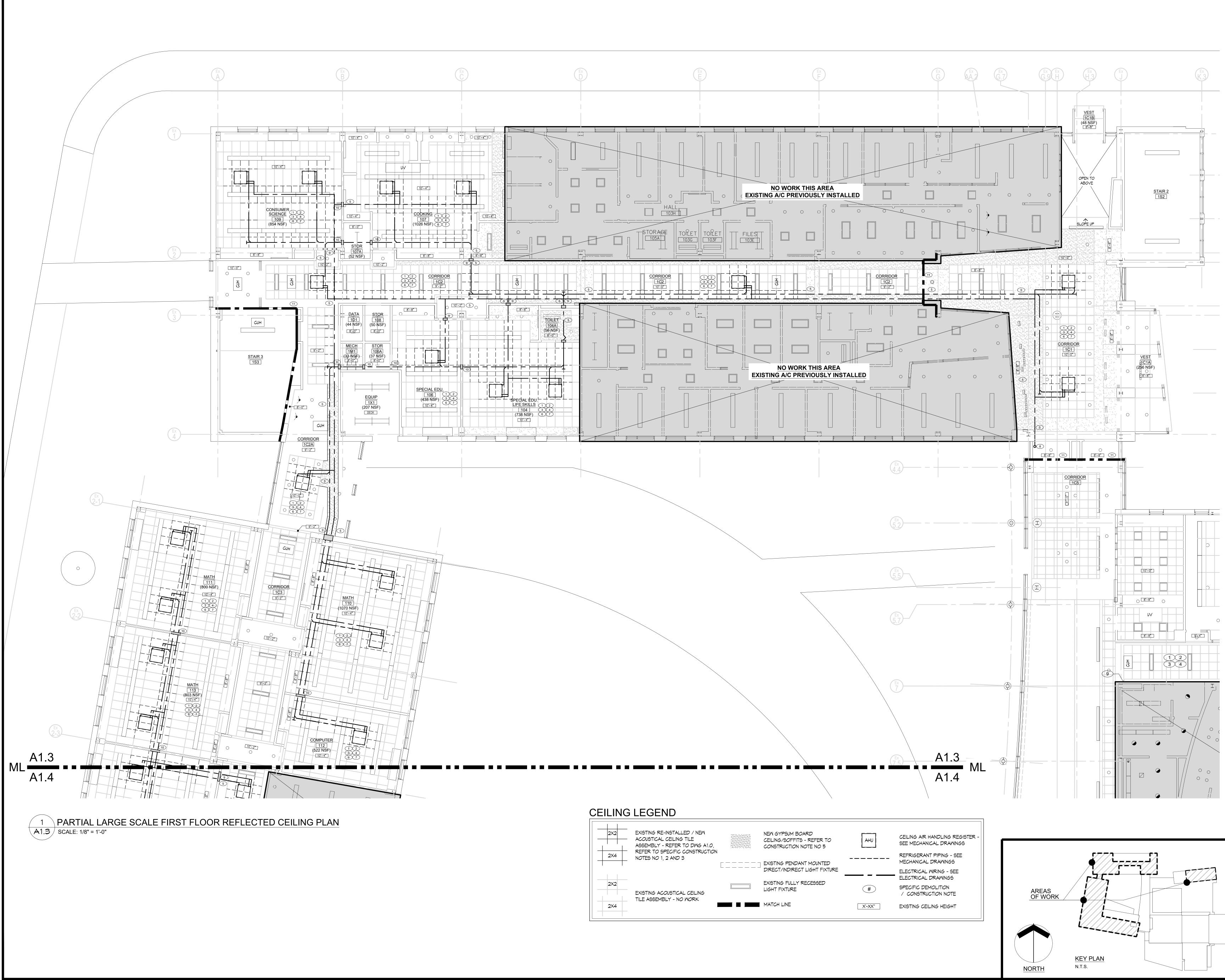




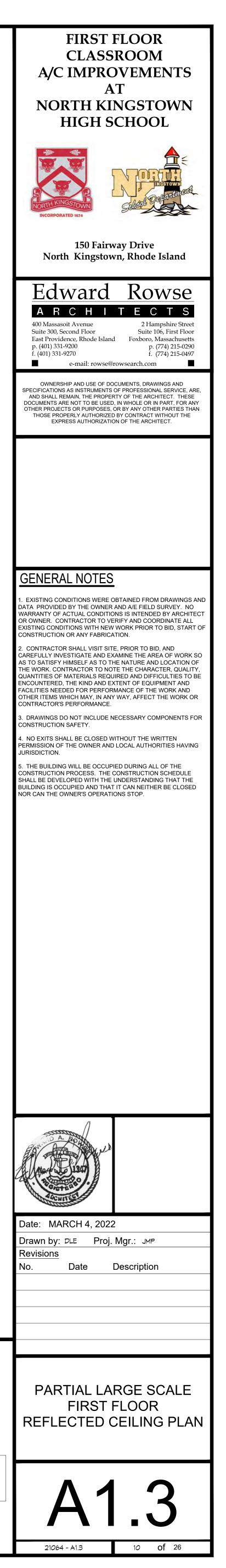


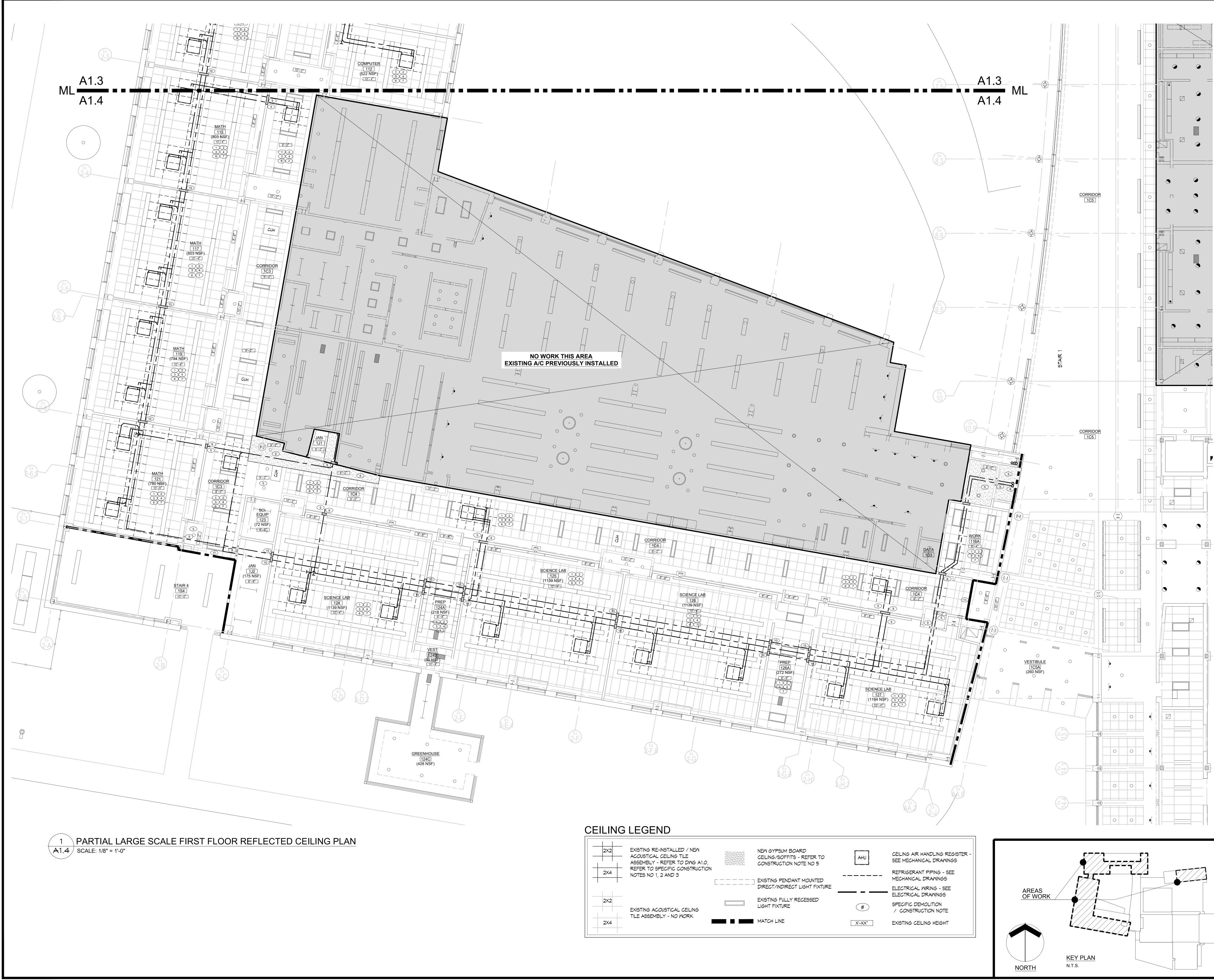




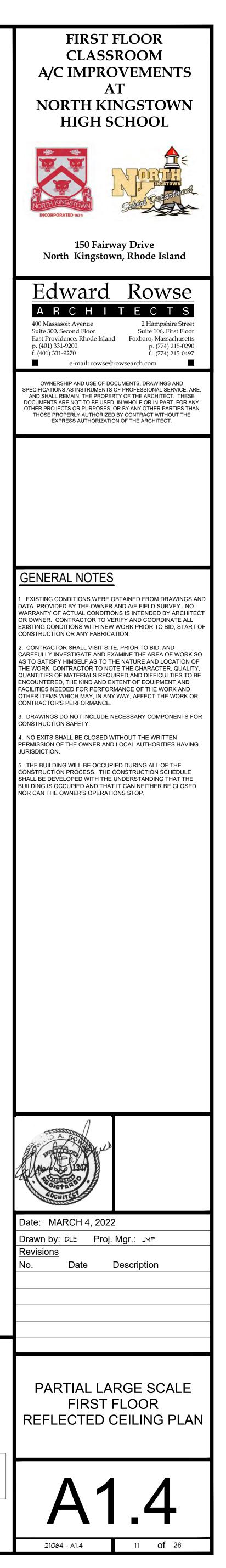


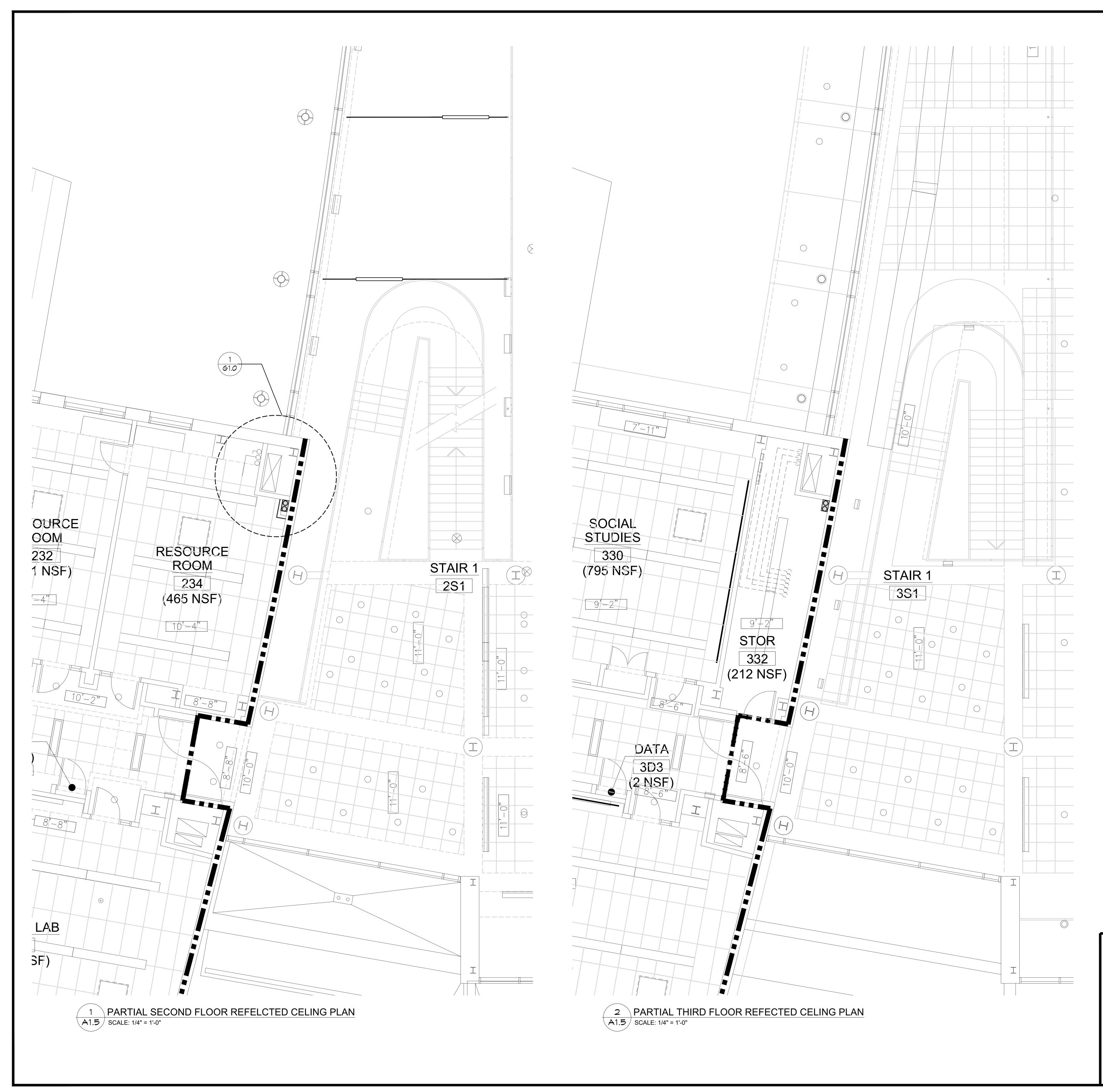
2X2	EXISTING RE-INSTALLED / NEW ACOUSTICAL CEILING TILE ASSEMBLY - REFER TO DWG A1.0, REFER TO SPECIFIC CONSTRUCTION	NEW GYPSUM E CEILING/SOFFI CONSTRUCTIOI
	NOTES NO 1, 2 AND 3	EXISTING PENI DIRECT/INDIRE
2X2	EXISTING ACOUSTICAL CEILING	EXISTING FULL LIGHT FIXTURE
2X4	TILE ASSEMBLY - NO WORK	MATCH LINE

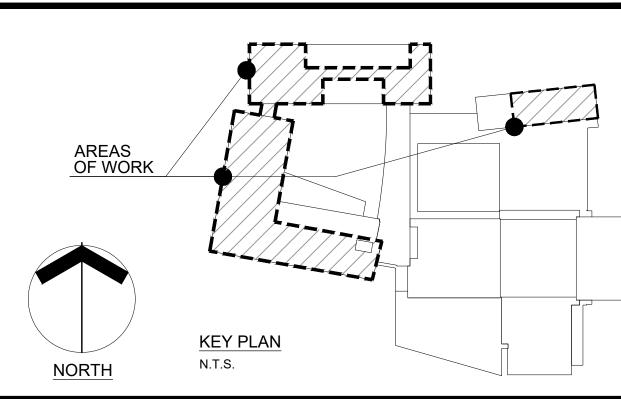


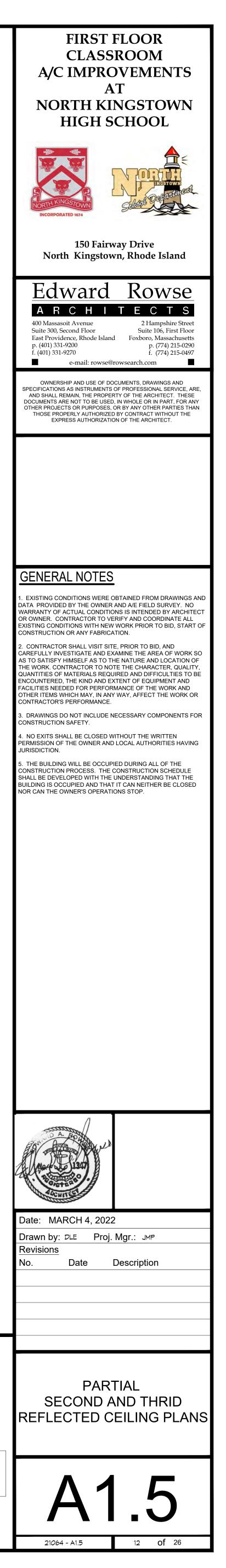


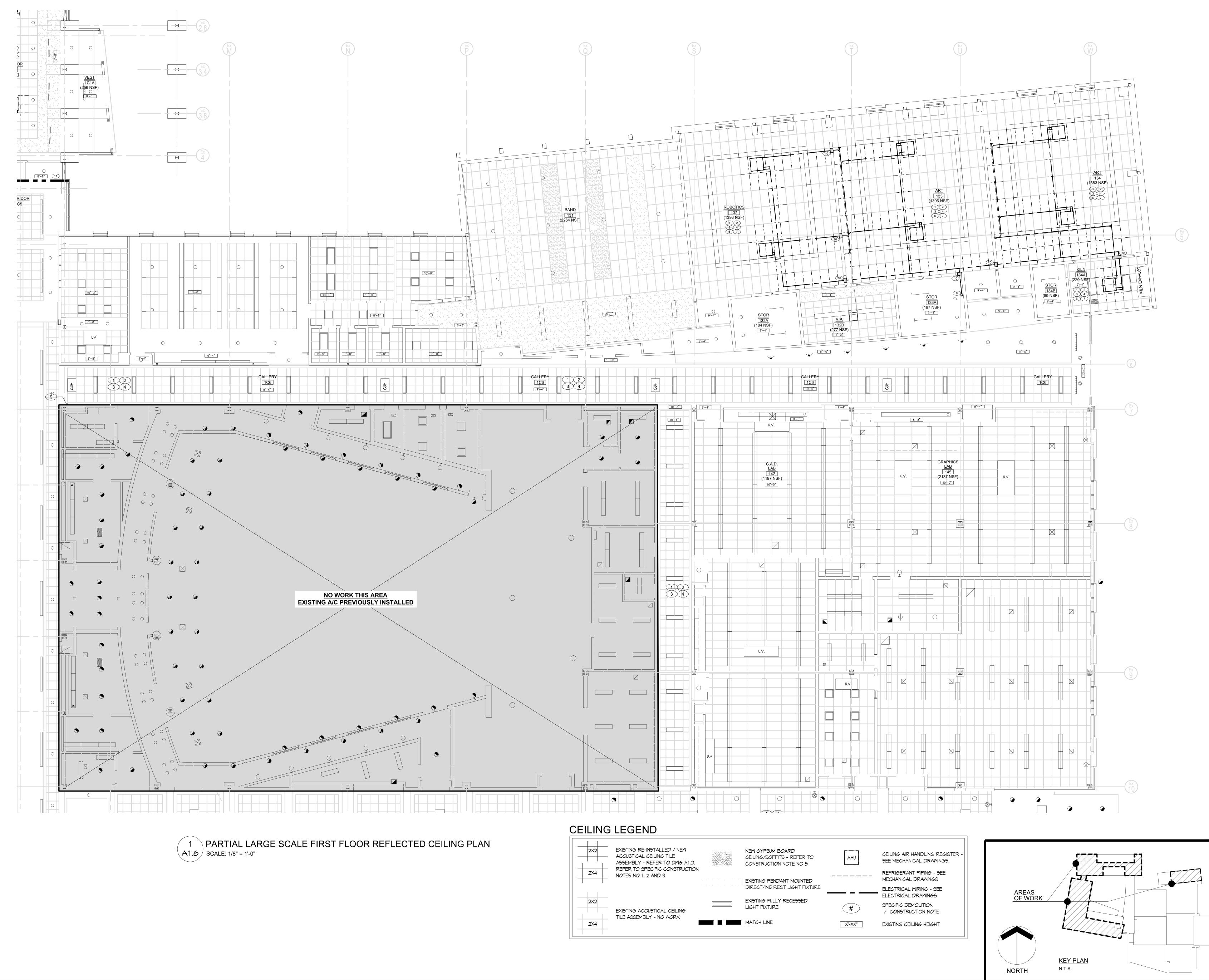
2X2 2X4	EXISTING RE-INSTALLED / NEW ACOUSTICAL CEILING TILE ASSEMBLY - REFER TO DWG A1.0, REFER TO SPECIFIC CONSTRUCTION NOTES NO 1, 2 AND 3	NEW GYPSUM BOA CEILING/SOFFITS CONSTRUCTION NO
		EXISTING PENDAN DIRECT/INDIRECT
2X2	EXISTING ACOUSTICAL CEILING	EXISTING FULLY R LIGHT FIXTURE
2X4	TILE ASSEMBLY - NO WORK	 MATCH LINE

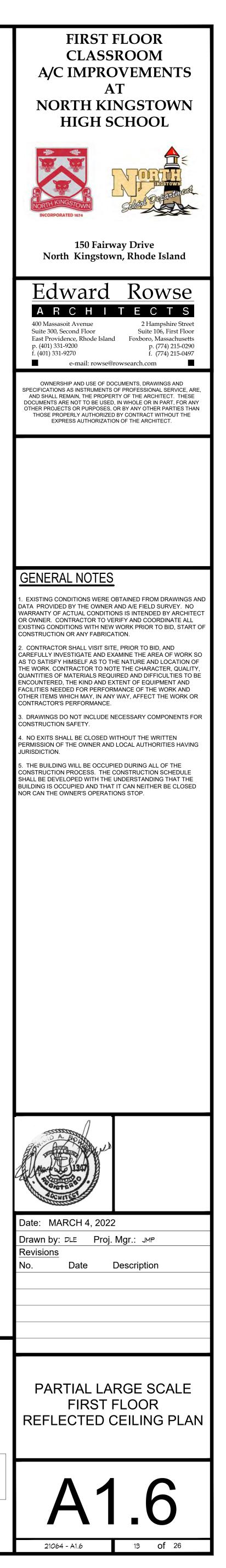


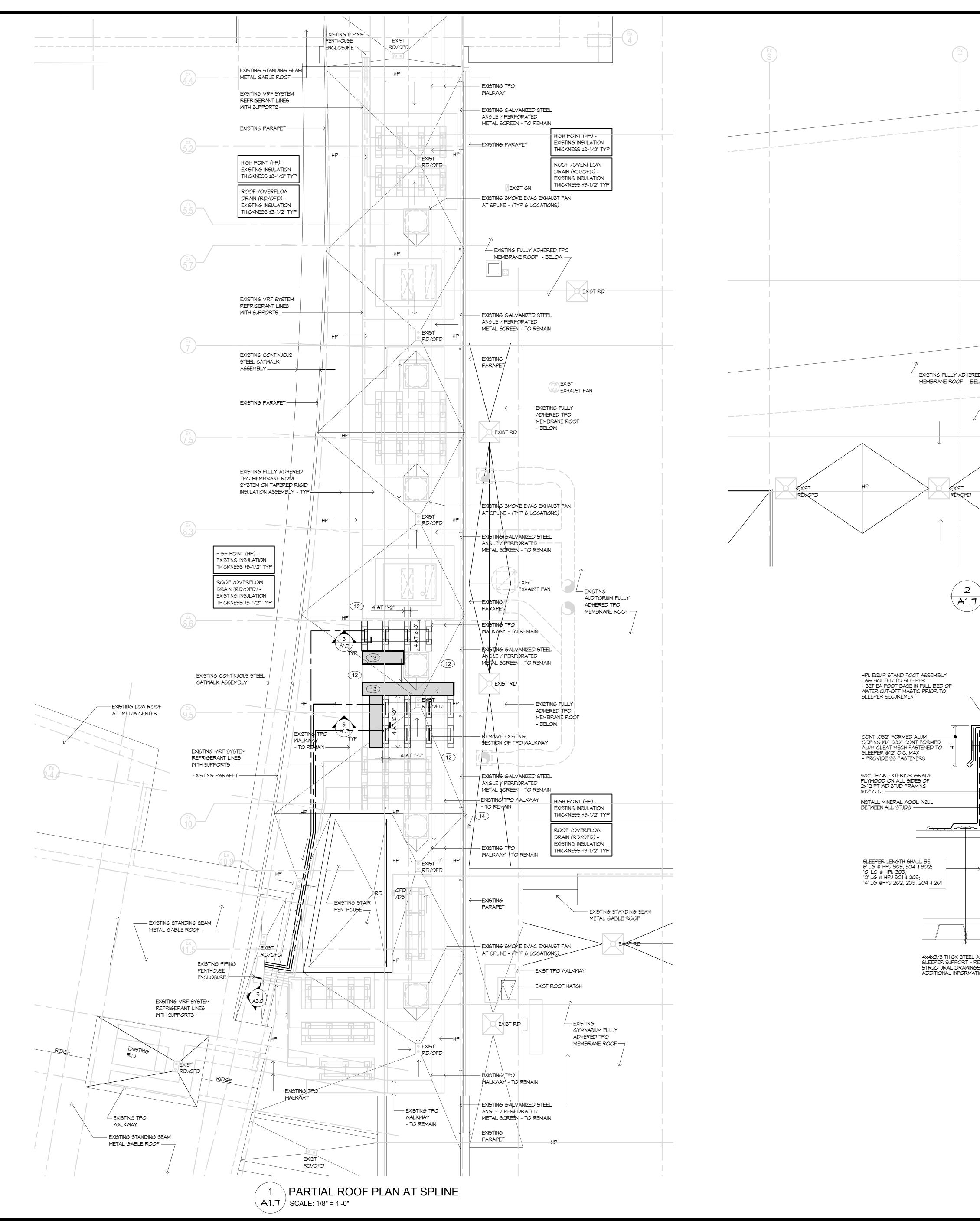


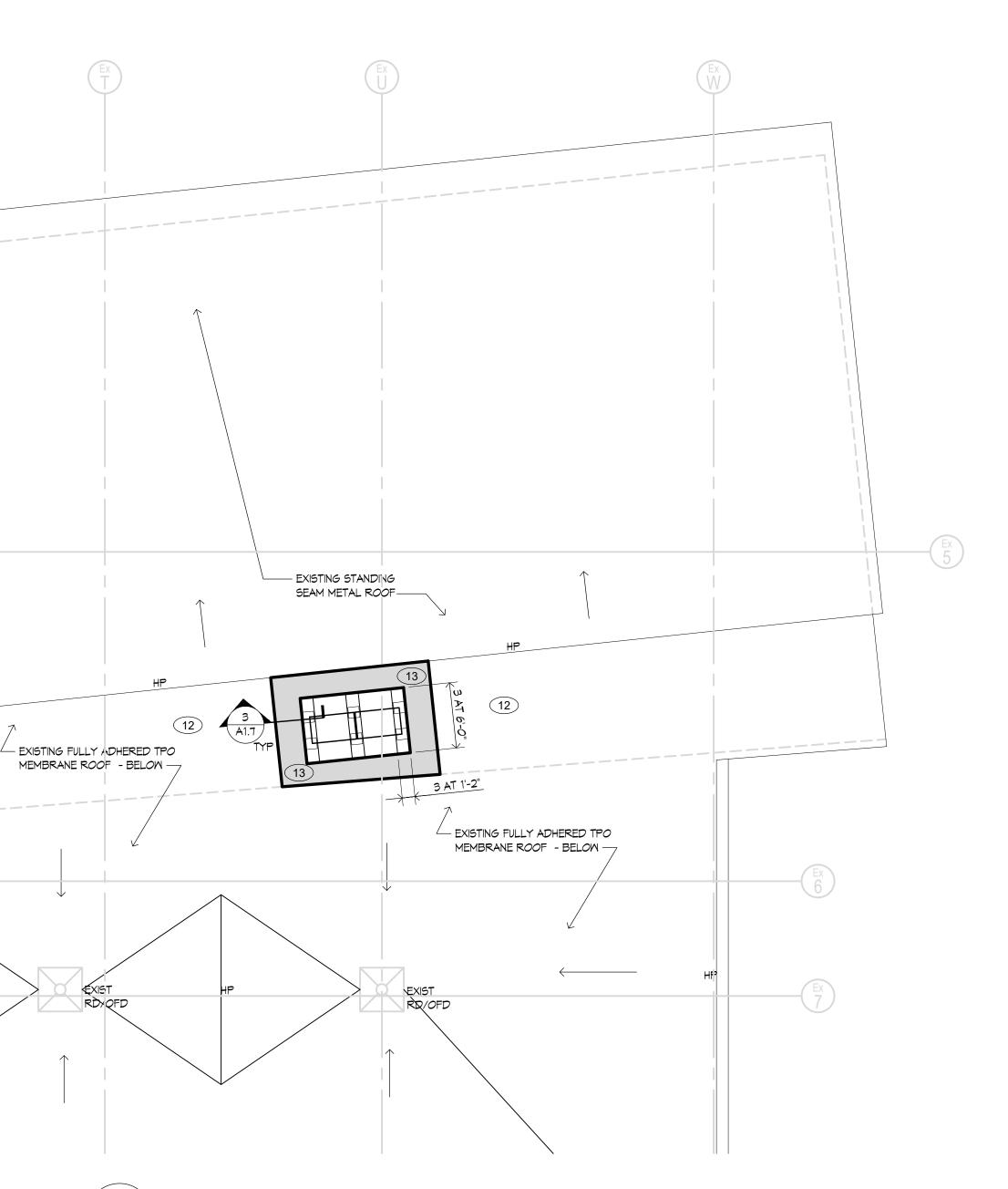




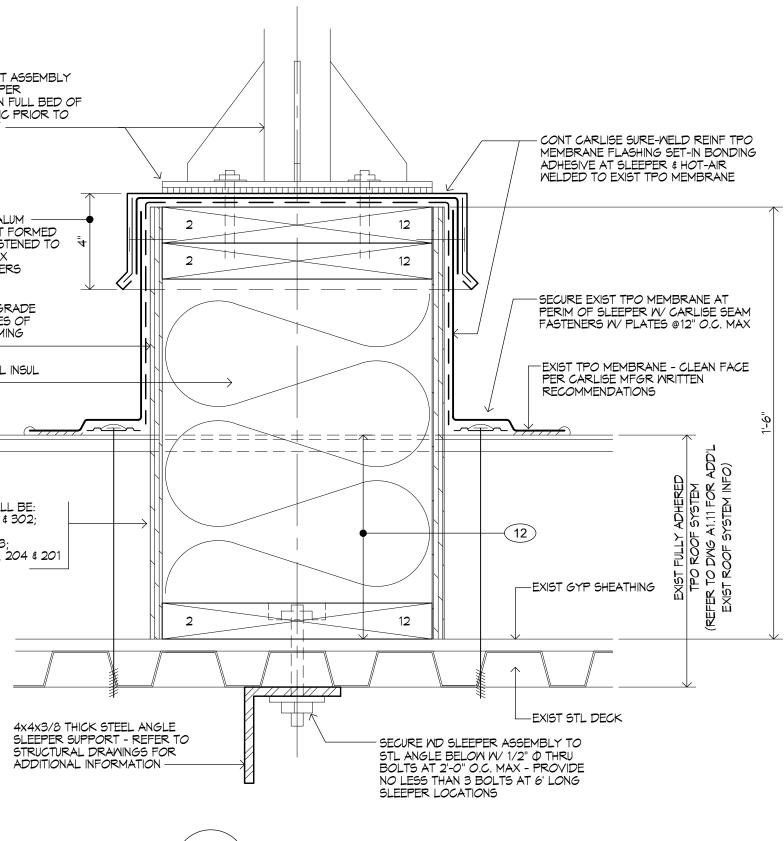




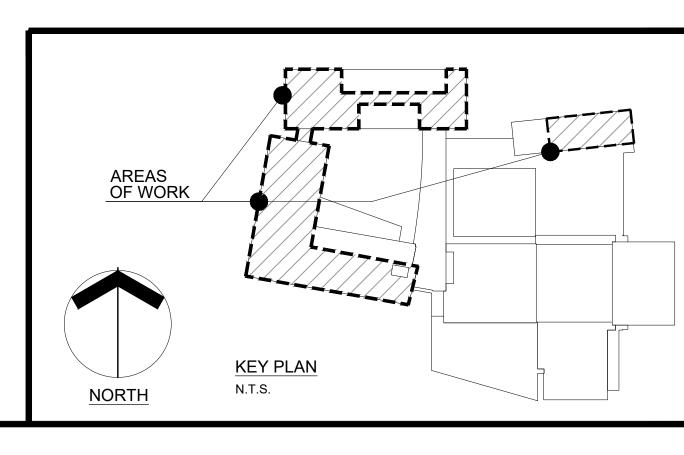


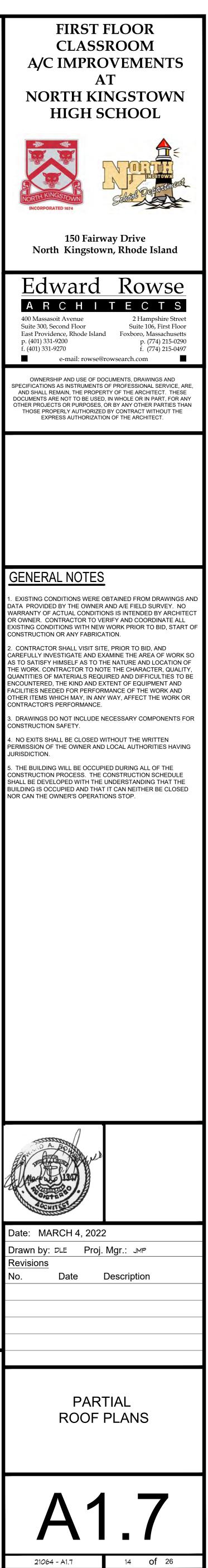


<sup>2</sup> PARTIAL ROOF PLAN AT ART WING A1.7 / SCALE: 1/8" = 1'-0"









ABBREVIATION	ABBREVIATIONS
ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
AH AHJ	AIR HANDLER AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
APD ATC	AIR PRESSURE DROP AUTOMATIC TEMPERATURE CONTROL
BHP	BREAK HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU/HOUR
CU CAP	BUILDING MANAGEMENT SYSTEM CAPACITY
CON	COOLING COIL CONDENSATE
COP	COEFFICIENT OF PERFORMANCE
CFM	CUBIC FEET PER MINUTE
BMS dB	CONDENSING UNIT DECIBELS
DN	DOWN
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE (DRY BULB)
EDB EER	ENTERING DRY BULB TEMPERATURE ENERGY EFFICIENCY RATIO
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB TEMPERATURE
EWT •F	ENTERING WATER TEMPERATURE DEGREES FAHRENHEIT
FT	FEET
FT WG	FEET WATER GAUGE
FLA	FULL LOAD AMPS
FPM HP	FEET PER MINUTE HORSEPOWER
HPU	HEAT PUMP UNIT
HSPF	HEATING SEASON PERFORMANCE FACTOR
IN	
IPLV IN WG	INTEGRATED PART LOAD VALUE INCHES WATER GAUGE
ĸw	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LDB LWB	LEAVING DRY BULB LEAVING WET BULB
MAX	MAXIMUM
мвн	THOUSANDS OF BTU / HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MIN MOP	MINIMUM MAXIMUM OVERCURRENT PROTECTION
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA OAT	OUTSIDE AIR OUTSIDE AIR TEMPERATURE (DRY BULB)
ODB	OUTSIDE DRY BULB TEMPERATURE
OWB	OUTSIDE WET BULB TEMPERATURE
P PH	PUMP PHASE
PH PSIG	PHASE POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
REF	REFRIGERANT
RF RFG	RETURN FAN REFRIGERANT HOT GAS
RFL	REFRIGERANT LIQUID
RFS	REFRIGERANT SUCTION
RPM	REVOLUTIONS PER MINUTE
rtu Seer	ROOFTOP UNIT SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SP	STATIC PRESSURE
SPD	STATIC PRESSURE DROP
tsp typ	TOTAL STATIC PRESSURE TYPICAL
UOI	UNLESS OTHERWISE INDICATED
VAV	VARIABLE AIR VOLUME
VD VED	
VFD VRV	VARIABLE FREQUENCY DRIVE VARIABLE REFRIGERANT VOLUME
¥1\¥	

	DUCTWORK PLAN LEGEND
YMBOL	DESCRIPTION
-	AIR LEAVING OPENING
– REF ——	REFRIGERANT PIPING
– CON ——-	COOLING COIL CONDENSATE PIPING
<b></b> ،	ELBOW UP
c <b>s</b>	ELBOW DOWN
<del></del>	TEE DOWN
<b>s</b>	TEE UP
$\left\langle \begin{array}{c} -\\ -\end{array} \right\rangle$	EQUIPMENT TAG
\$	SWITCH
1	THERMOSTAT OR TEMPERATURE SENSOR
1	THERMOSTAT GUARD W/ KEY LOCK
	CONTROL CONNECTION

### GENERAL MECHANICAL NOTES

I. MECHANICAL EQUIPMENT AND SUCH OTHER APPARATUS AS MAY REQUIRE MAINTENANCE AND OPERATION FROM TIME TO TIME SHALL BE MADE EASILY ACCESSIBLE. ALTHOUGH THE EQUIPMENT MAY BE SHOWN ON THE DRAWINGS IN CERTAIN LOCATIONS, THE CONSTRUCTION MAY DISCLOSE THAT SUCH LOCATIONS DO NOT MAKE ITS POSITION READILY ACCESSIBLE. IN SUCH CASES, THE OWNER OR HIS REPRESENTATIVE SHALL BE NOTIFIED BEFORE ADVANCING THE CONSTRUCTION TO A STAGE WHERE A CHANGE WILL REFLECT ADDITIONAL EXPENSE.

2. THE DRAWINGS SHOW THE LAYOUT OF THE MECHANICAL SYSTEMS AND INDICATE THE APPROXIMATE LOCATIONS OF DUCTWORK, PIPING, BRANCHES AND ELBOWS, AND EQUIPMENT. THE RUNS AND QUANTITY OF DUCTWORK, PIPING, OFFSETS AND ELBOWS AS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. THE EXACT ROUTING OF QUANTITY DUCTWORK, PIPING, OFFSETS AND ELBOWS SHALL BE DETERMINED BY THE STRUCTURAL CONDITIONS, POSSIBLE OBSTRUCTIONS AND COORDINATION DRAWINGS. THIS SHALL NOT BE CONSTRUED TO MEAN THAT THE DESIGN OF THE SYSTEMS MAY BE CHANGED, BUT REFERS ONLY TO EXACT RUNS BETWEEN GIVEN POINTS.

3. IT SHALL BE THE RESPONSIBILITY OF THE HVAC CONTRACTOR TO STUDY ALL DRAWINGS AND DETAILS SO THAT THE INSTALLATION OF ALL NEW WORK CAN BE FULLY COORDINATED. COORDINATE WITH ALL TRADES TO AVOID INTERFERENCE OF EQUIPMENT.

4. HVAC WORK IS INDICATED DIAGRAMMATICALLY. EXACT LOCATION OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS. EQUIPMENT, DUCTS OR PIPES INTERFERING WITH OTHER INSTALLATIONS SHALL BE RELOCATED AS REQUIRED.

5. HVAC CONTRACTOR SHALL COORDINATE ALL WALL, CEILING, FLOOR, ROOF AND BEAM PENETRATIONS WITH ARCHITECT AND STRUCTURAL ENGINEER.

6. PRODUCTS REQUIRED BY CONSTRUCTION BUT NOT SPECIFICALLY DESCRIBED HEREIN SHALL BE AS SELECTED BY THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE A/E.

7. PROVIDE ALL MATERIALS, LABOR, AND ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEMS AND AS REQUIRED BY THE EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS.

8. INSTALL ALL MATERIALS, ACCESSORIES AND EQUIPMENT ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR A COMPLETE AND OPERABLE SYSTEMS AS INDICATED ON THE DRAWINGS MANUFACTURERS INSTRUCTIONS.

9. ALL MISCELLANEOUS STRUCTURAL SUPPORTS REQUIRED FOR HVAC EQUIPMENT INSTALLATION SHALL BE PROVIDED BY MECHANICAL CONTRACTOR.

10. INSTALL ALL PIPING BELOW DUCTWORK UNLESS CLEARANCE CONDITION REQUIRES PIPING TO BE ABOVE.

11. ALL CEILING MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A WAY THAT LIGHTS, PIPING, AND DUCTWORK DO NOT BLOCK ACCESS TO UNITS AND RELATED ACCESSORIES.

12. INSTALL ROOM THERMOSTATS OR SENSORS 54" (MAXIMUM) ABOVE FINISHED FLOOR OR AS OTHERWISE DIRECTED BY THE ARCHITECT.

13. GRAVITY DRAIN COOLING COIL CONDENSATE PIPING SHALL BE PITCHED DOWNWARD TO DRAIN AT MINIMUM 1/4" PER FOOT. COOLING COIL CONDENSATE PIPING WITHIN THE BUILDING SHALL TERMINATE ABOVE AN INDIRECT WASTE RECEIVER, WITH A MINIMUM 2" AIR GAP ABOVE THE FLOOD RIM OF THE RECEIVER. JANITORS SINKS MAY BE USED AS RECEIVERS. WHERE THERE ARE NO JANITORS SINKS WITHIN THE VICINITY FOR PROPER GRAVITY DRAINAGE, PROVIDE TRAPPED, VENTED, AND PRIMED INDIRECT WASTE RECEIVERS CONNECTED TO THE BUILDING PLUMBING SYSTEM AS REQUIRED.

GENERAL SYSTEM PERFORMANCE			MANCE		SYSTEM INDIVIDUAL MODULE DATA												SYSTEM PHYSICAL		REMARKS								
	NOMINAL			MODULE #1					MODULE #2					MODULE #3				MANUFACTURER	WEIGHT								
IAG		LOCATION	LOCATION	TONS	EER	COP -	MCA	MOP	VOLTAGE	PHASE	WEIGHT (LBS)	МСА	MOP	VOLTAGE	PHASE	WEIGHT (LBS)	MCA	MOP	VOLTAGE	PHASE	WEIGHT (LBS)	MODEL	(LBS)	TYPE RAT	RATINGS	ATINGS FEATURES	INSTALL
HPU-101	ROOF	26	11.7	3.63	19	25	480	3	629	19	25	480	3	629	11	15	480	3	512	trane/mitsubishi Tuhy-p4084bn40a	1770			12	12		
HPU-102	ROOF	32	11.2	3.45	22	30	480	3	675	19	25	480	3	629	19	25	480	3	629	TRANE/MITSUBISHI TUHY-P3844BN40A	1933			12	12		
HPU-103	ROOF	34	10.9	3.38	22	30	480	3	675	22	30	480	3	675	19	25	480	3	629	TRANE/MITSUBISHI TUHY-P4084BN40A	1979			12	12		
HPU-104	ROOF	16	13.6	4.06	15	20	480	3	605	15	20	480	3	605	-	-	-	_	_	TRANE/MITSUBISHI TUHY-P1924BN40A	1210	1		12	12		

MODULES AND REQUIRE INDIVIDUAL ELECTRICAL FEEDS

2 18" EQUIPMENT STAND

CONDENSATE PUMP SCHEDULE														
	Pl		CE		ELECTRICAL	-		PHYSICAL	REMARKS					
TAG	GPH	TDH (FT WG)	SHUT-OFF HEAD (FT WG)	HP	VOLTAGE	PHASE	TANK VOLUME (GALLONS)	MANUFACTURER MODEL	TYPE	RATINGS	FEATURES	INSTALL		
CP-1	125 10 14 1/50 115 1				1.0	LITTLE GIANT VCL-14ULS			123	12				
$\sim$	1 COMMERCIAL GRADE AUTOMATIC       1 6' POWER CORD       1       1       6' POWER CORD       1													
1 PLENU	M RATED UL	LISTED						-						

	1		PERFOR	RMANCE		0.155.5 -	DELIST		ELEC	TRICAL		PHYSICAL		REM	ARKS	
TAG	NOMINAL COOLING	nominal Heating MBH		FAN		outside Air	Relief Exhaust	MCA	мор	VOLTAGE	PHASE	MANUFACTURER	TYPE	RATINGS	FEATURES	INS
	MBH		CFM	ESP (IN WG)	SPEED	SUPPLY CFM	AIR CFM					MODEL				
								HPU	-101	1				1	1	17
U-1101	30.0	34.0	636	-	LOW	-	-	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P030EM140A			123	1
U-1102	30.0	34.0	636	-	LOW	-	-	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P030EM140A	1		123	
U-1103	30.0	34.0	636	-	LOW	-	-	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P030EM140A	1		123	
U-1104	30.0	34.0	636	-	LOW	-	-	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P030EM140A			123	0
J-1105	30.0	34.0	636	-	LOW	-	-	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P030EM140A	1		123	
J—1106	30.0	34.0	636	-	LOW	-	-	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P030EM140A	1		123	Γ
J-1107	30.0	34.0	636	-	LOW	-	_	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P030EM140A			123	
J-1108	30.0	34.0	636	-	LOW	-	-	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P030EM140A	1	(1)	123	
J-1109	24.0	27.0	812	_	HIGH	_	_	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P024EM140A	1		123	$\uparrow$
J-1110	24.0	27.0	812	_	HIGH	_	_	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P024EM140A			123	
J-1111	24.0	27.0	812	_	HIGH	_	_	0.57	15	208	1	TRANE/MITSUBISHI	1		123	
								HPU-	-102							<u> </u>
J-1201	30.0	34.0	636	_	LOW	_	-	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P030EM140A			123	
J-1202	30.0	34.0	636	_	LOW	_	-	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P030EM140A	1		123	$\uparrow$
J—1203	30.0	34.0	636	_	LOW	_	_	0.57	15	208	1	TRANE/MITSUBISHI			123	$\uparrow$
-1204	30.0	34.0	636	_	LOW	_	-	0.57	15	208	1	TPLFY-P030EM140A TRANE/MITSUBISHI			123	$\uparrow$
J—1205	30.0	34.0	636	_	LOW	_	_	0.57	15	208	1	TPLFY-P030EM140A TRANE/MITSUBISHI			123	(
J—1206	30.0	34.0	636	_	LOW	_	_	0.57	15	208	1	TPLFY-P030EM140A TRANE/MITSUBISHI			123	$\uparrow$
J-1207	30.0	34.0	636	_	LOW	_	_	0.57	15	208	1	TPLFY-P030EM140A TRANE/MITSUBISHI			123	
–1207 –1208	30.0	34.0	636		LOW	_	_	0.57	15	208	1	TPLFY-P030EM140A TRANE/MITSUBISHI			123	+
J-1208	30.0	34.0	636									TPLFY-P030EM140A TRANE/MITSUBISHI				(
				-	LOW	-	-	0.57	15	208	1	TPLFY-P030EM140A TRANE/MITSUBISHI				+
J-1210	30.0	34.0	636	-	LOW	-	-	0.57	15	208	1	TPLFY-P030EM140A TRANE/MITSUBISHI				(
J—1211	30.0	34.0	636	-	LOW	-	-	0.57	15	208	1	TPLFY-P030EM140A TRANE/MITSUBISHI			123	$\left  \right\rangle$
J-1212	30.0	34.0	636	-	LOW	-	-	0.57	15	208	1	TPLFY-P030EM140A TRANE/MITSUBISHI			123	
J—1213	24.0	27.0	812	-	HIGH	-	-	0.57	15	208	1	TPLFY-P024EM140A			123	
									-103			TRANE/MITSUBISHI				$\top$
J-1301	24.0	27.0	812	-	HIGH	-	-	0.57	15	208	1	TPLFY-P024EM140A TRANE/MITSUBISHI			123	
J-1302	24.0	27.0	812	-	HIGH	-	-	0.57	15	208	1	TPLFY-P024EM140A TRANE/MITSUBISHI			123	(
J-1303	24.0	27.0	812	-	HIGH	-	-	0.57	15	208	1	TPLFY-P024EM140A			123	
J-1304	30.0	34.0	636	-	LOW	-	-	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P030EM140A	1		123	
J-1305	30.0	34.0	636	-	LOW	-	-	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P030EM140A			123	
J-1306	24.0	27.0	636	-	LOW	-	-	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P024EM140A	1		123	(
J-1307	24.0	27.0	636	-	LOW	-	-	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P024EM140A	1		123	
J—1308	24.0	27.0	812	-	HIGH	-	-	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P024EM140A			123	
J—1309	24.0	27.0	636	-	LOW	-	-	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P024EM140A			123	
J—1310	30.0	34.0	636	-	LOW	-	-	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P030EM140A	1		123	(
J-1311	30.0	34.0	636	-	LOW	-	-	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P030EM140A	1		123	
J—1312	30.0	34.0	636	-	LOW	-	-	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P030EM140A	1	(1)	123	
J-1313	30.0	34.0	636	-	LOW	_	-	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P030EM140A	1		123	
J-1314	30.0	34.0	636	_	LOW	_	_	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P030EM140A	1		123	$\uparrow$
J-1315	30.0	34.0	636	_	LOW	_	_	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P030EM140A			123	
	I		L	I		I		HPU-	 104	1	<u> </u>	<u> </u> 11 ET = PUJUEMT4UA	I	1	1	1
J—1401	30.0	34.0	812	_	HIGH	_	_	0.57	15	208	1	TRANE/MITSUBISHI TPLFY-P030EM140A			123	(
J—1402	30.0	34.0	812	_	HIGH	_	_	0.57	15	208	1	TRANE/MITSUBISHI			123	
J—1403	30.0	34.0	812	_	HIGH	_	_	0.57	15	208	1	TPLFY-P030EM140A TRANE/MITSUBISHI			123	
J-1404	30.0	34.0	812	_	HIGH	_	_	0.57	15	208	1	TPLFY-P030EM140A TRANE/MITSUBISHI			123	(
J-1405	30.0	34.0	812	_	HIGH	_	_	0.57	15	208	1	TPLFY-P030EM140A TRANE/MITSUBISHI			123	
J-1406	30.0	34.0	812	_	HIGH	_	_	0.57	15	208	1	TPLFY-P030EM140A TRANE/MITSUBISHI			123	
J-1400	18.0	20.0	812	_	HIGH	_	_	0.57	15	208	1	TPLFY-P030EM140A TRANE/MITSUBISHI			123	
∙ т <b>∪</b> /	10.0	20.0	012	_			_	0.01		200		TPLFY-P018EM140A				

1 RATED PER AHRI

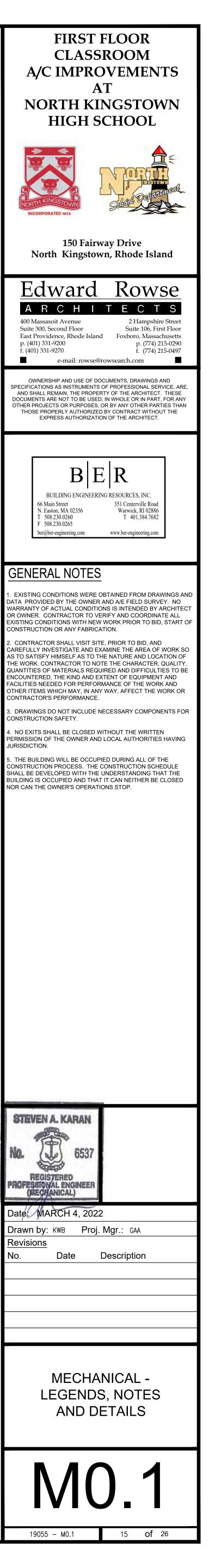
THE THIRD FLOOR. PROVIDE A NEW TOUCH SCREEN CENTRAL CONTROLLER WITH BACNET INTERFACE IF THE SYSTEM IS SUBSTITUTED FOR ANOTHER MANUFACTURER.

ARCHITECT AND PROVIDE ACCESS PANELS WHERE REQUIRED. (2) REFER TO HPU SYSTEM REFRIGERANT PIPING DIAGRAM ON DRAWING M2.2

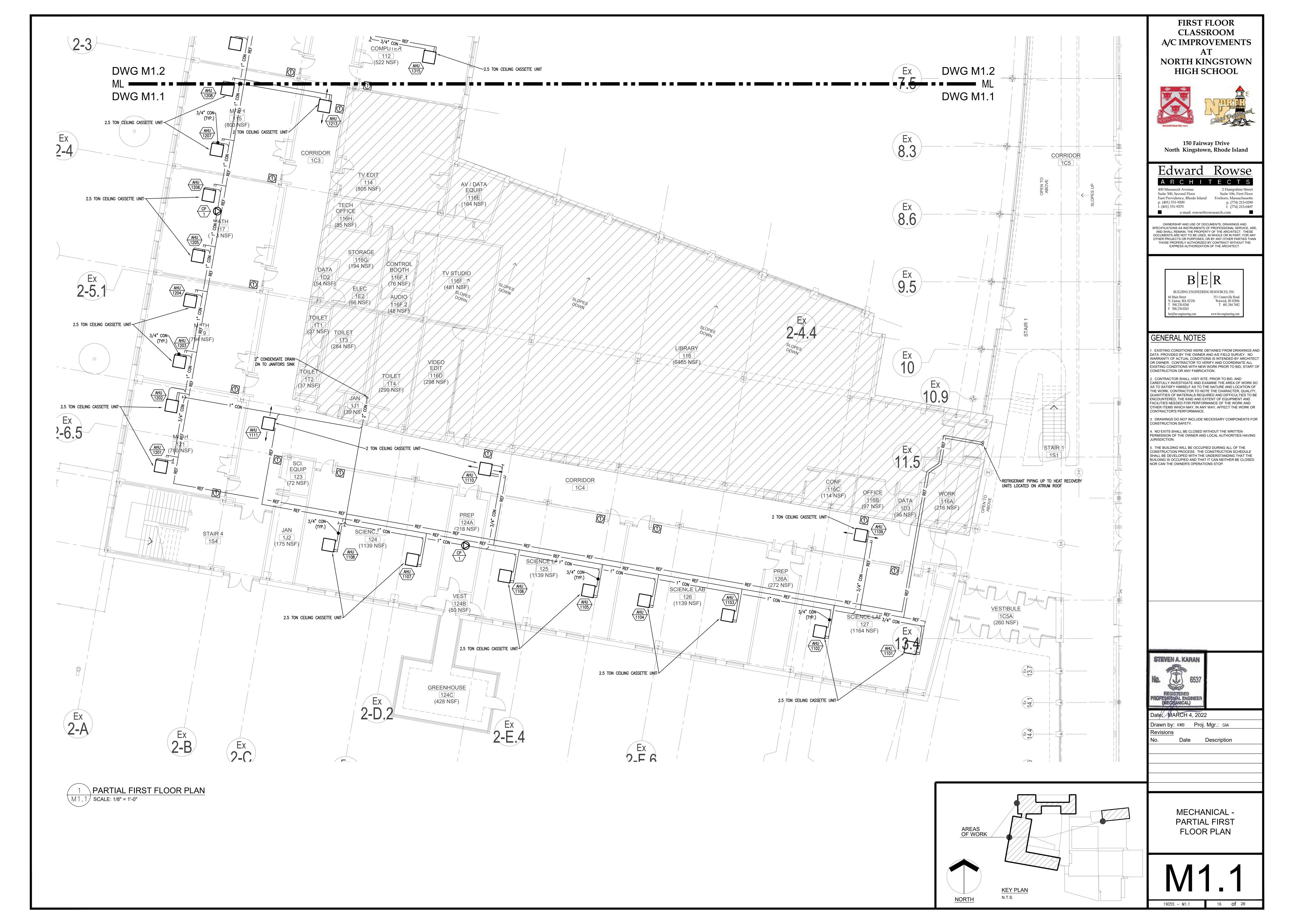
③ PROVIDE AND INSTALL CONDENSATE OVERFLOW SWITCH DEVICE AT EACH UNIT CONFORMING TO UL-508 TO SHUT OFF

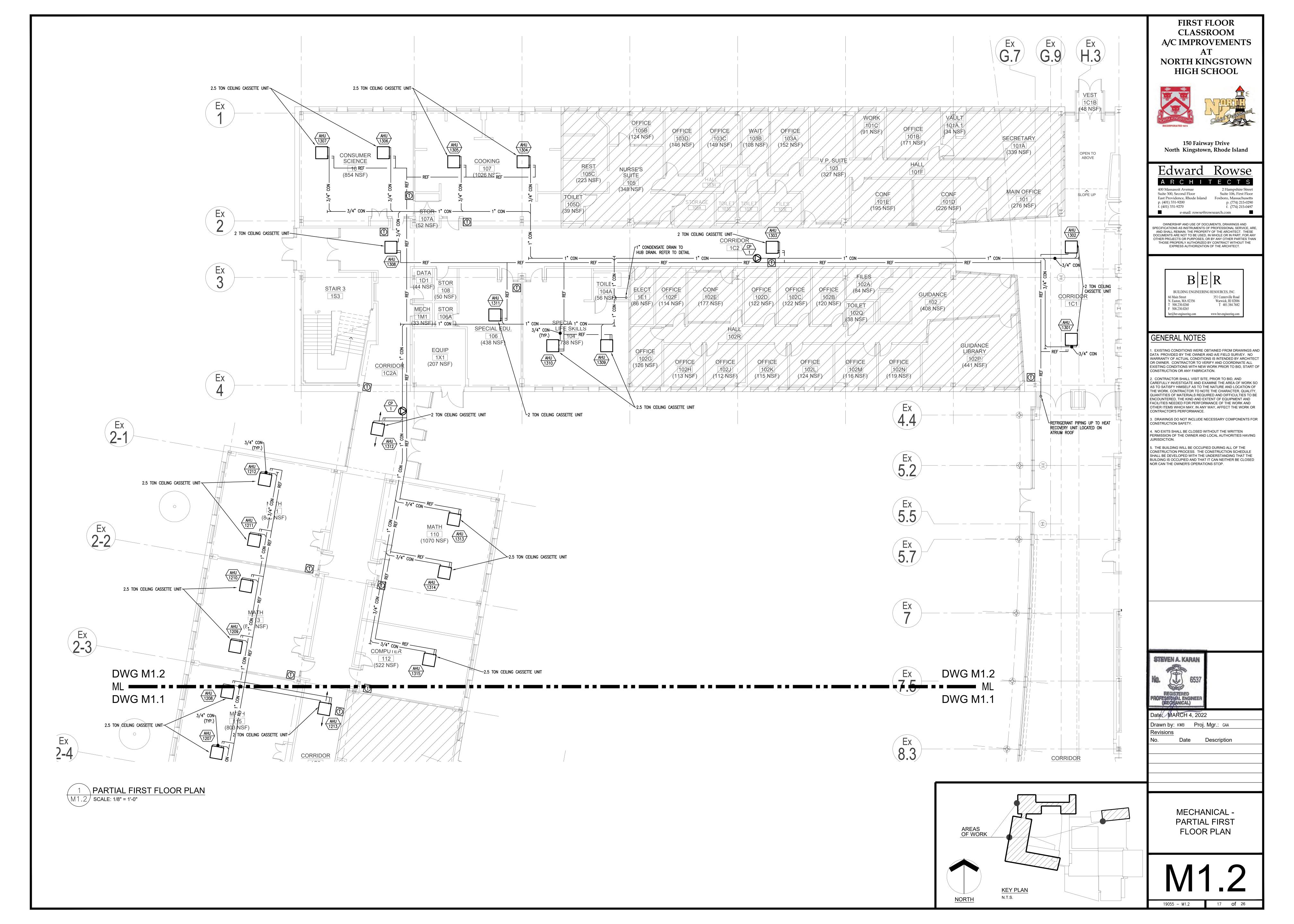
THE UNIT IN THE EVENT THAT THE PRIMARY DRAIN IS BLOCKED. (4) REFER TO ARCHITECTS RCP FOR EXACT LOCATION OF RECESSED CEILING CASSETTE UNITS. FIELD VERIFY AND

COORDINATE EXACT LOCATION PRIOR TO INSTALLATION OF UNIT (5) UNIT SHALL BE SET TO LOW SPEED AND TEMPERATURE SENSING SHALL BE SET TO BE AT THE WALL THERMOSTAT,

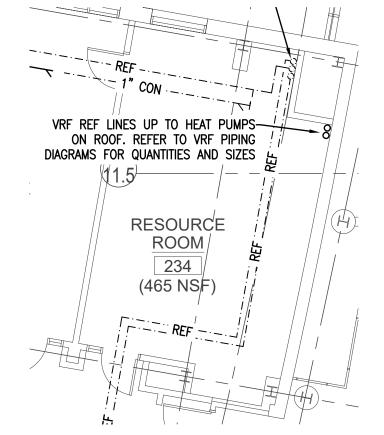


COMPRESSOR UNIT, SIZED AND CONFIGURED PER THE MANUFACTURER'S RECOMMENDATIONS. ROUTE PIPING CONCEALED TO THE GREATEST EXTENT POSSIBLE. REFER TO PIPING DIAGRAM. (2) MOUNT ON 18" EQUIPMENT STANDS SECURED TO ROOF STRUCTURE TYPICAL TO QUICKSLING SUPER STAND TYPES. REFER TO DETAIL.



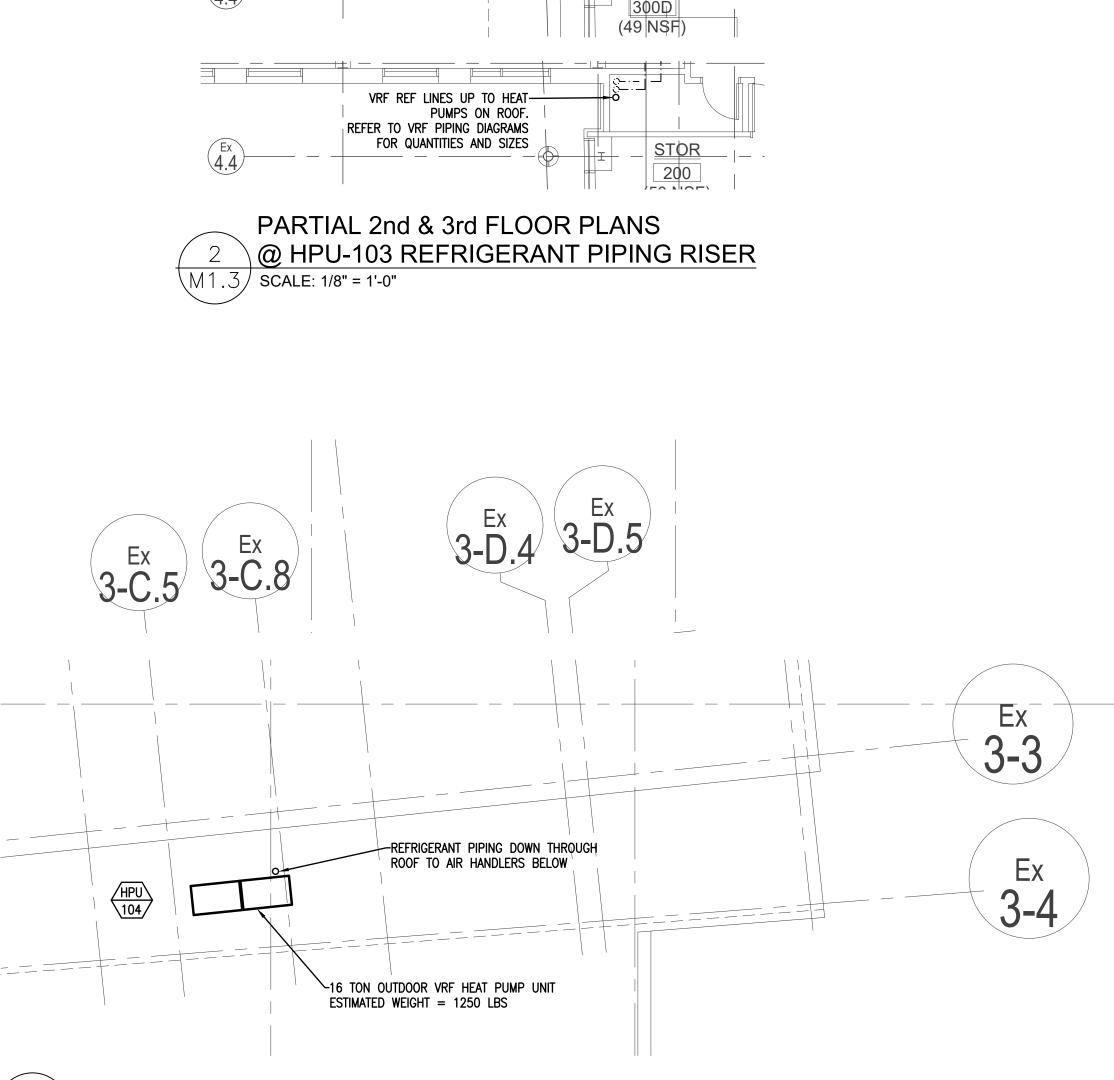


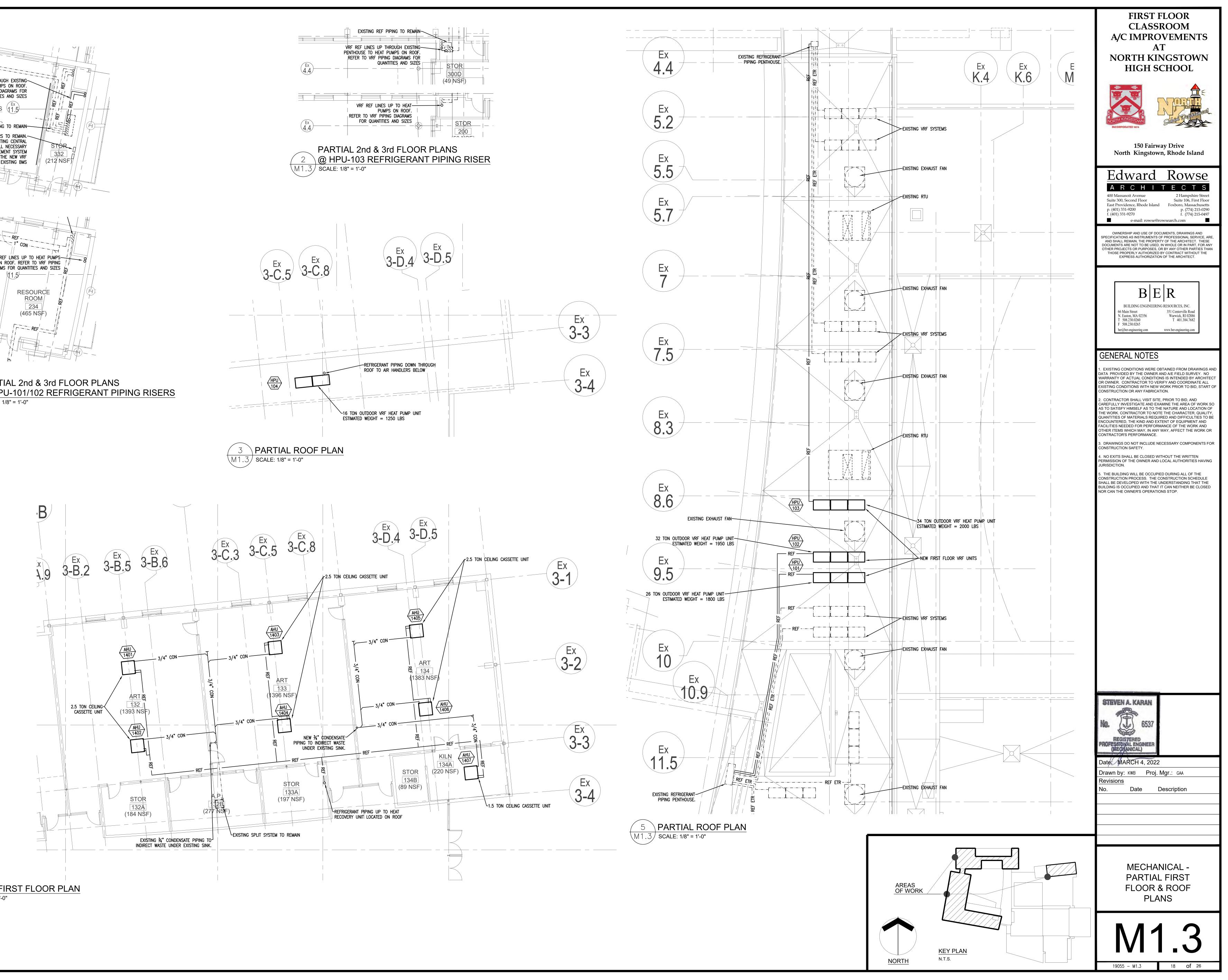
VRF REF LINES UP THROUGH EXISTING PENTHOUSE TO HEAT PUMPS ON ROOF. REFER TO VRF PIPING DIAGRAMS FOR QUANTITIES AND SIZES SOCIAL STUDIES (11.5) 330 1705 NOF EXISTING REF PIPING TO REMAIN-EXISTING VRF CENTRAL CONTROLLERS TO REMAIN.-CONNECT NEW VRF SYSTEMS TO EXISTING CENTRAL CONTROLLER. PROVIDE ANY AND ALL NECESSARY PROGRAMMING AND BUILDING MANAGEMENT SYSTEM 332 EXPANSION CARDS TO INTEGRATE THE NEW VRF (212 NSF) SYSTEMS INTO THE EXISTING BMS



·B

## PARTIAL 2nd & 3rd FLOOR PLANS @ HPU-101/102 REFRIGERANT PIPING RISERS M1.3 SCALE: 1/8" = 1'-0"





4 PARTIAL FIRST FLOOR PLAN (M1.3) SCALE: 1/8" = 1'-0"

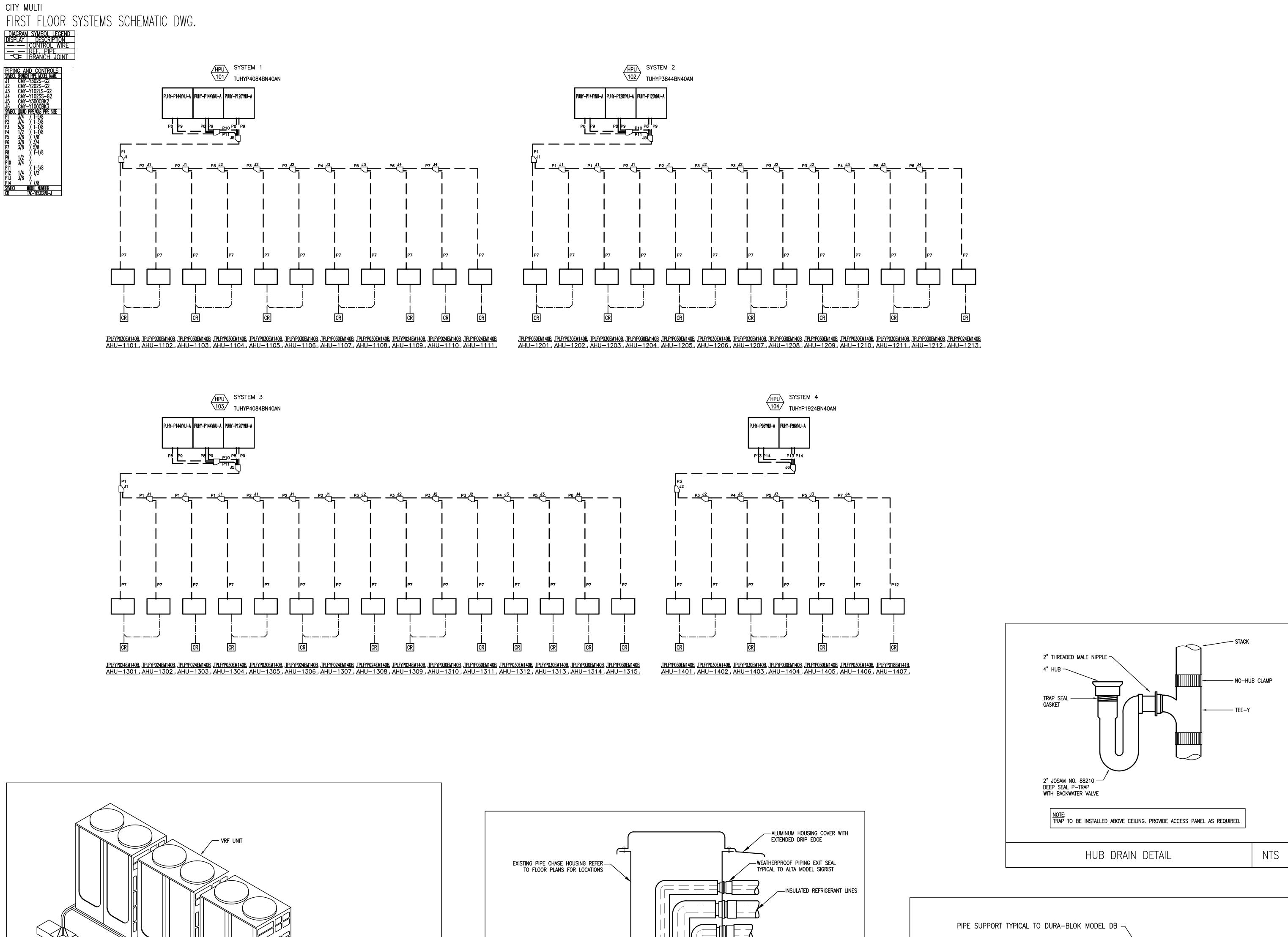


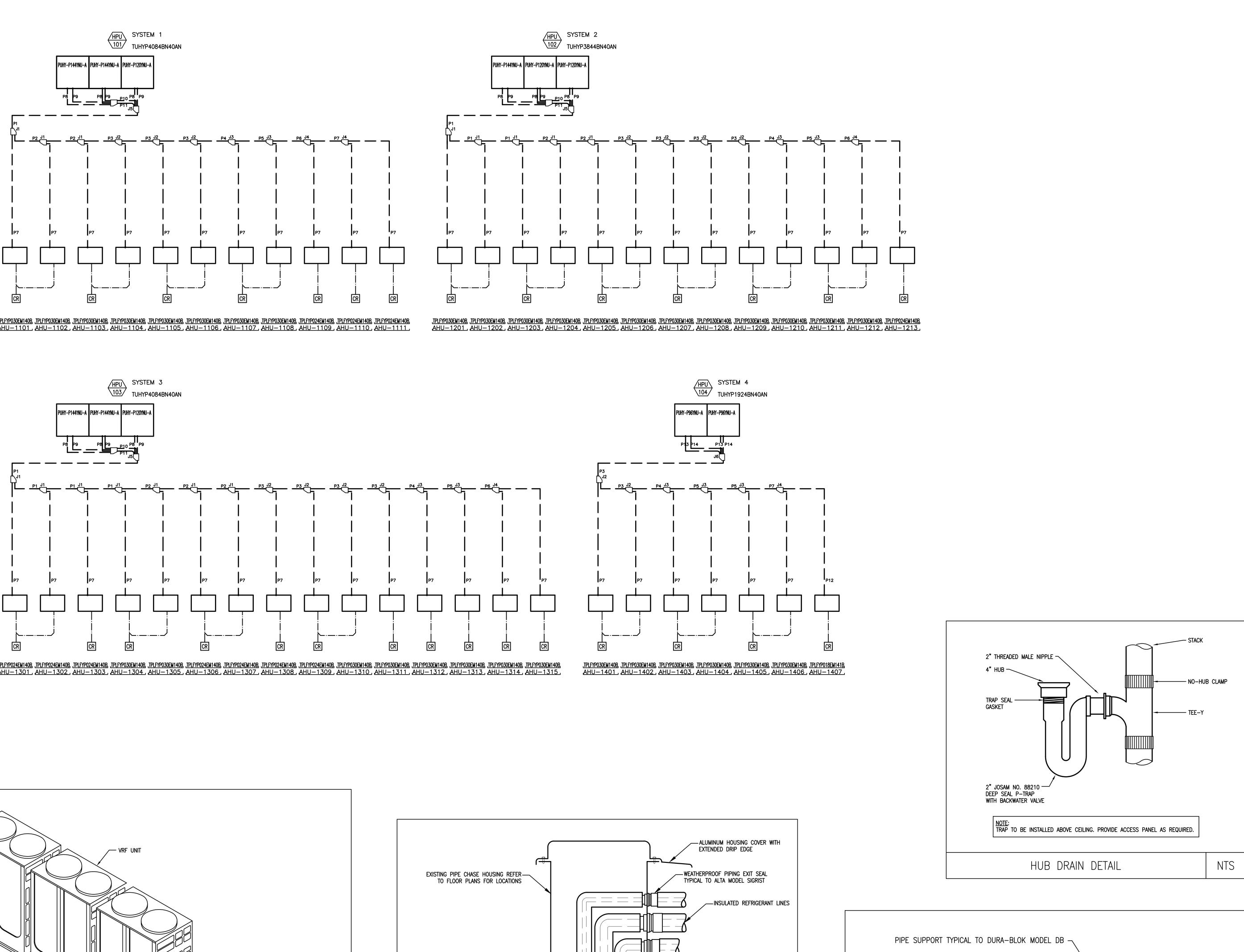


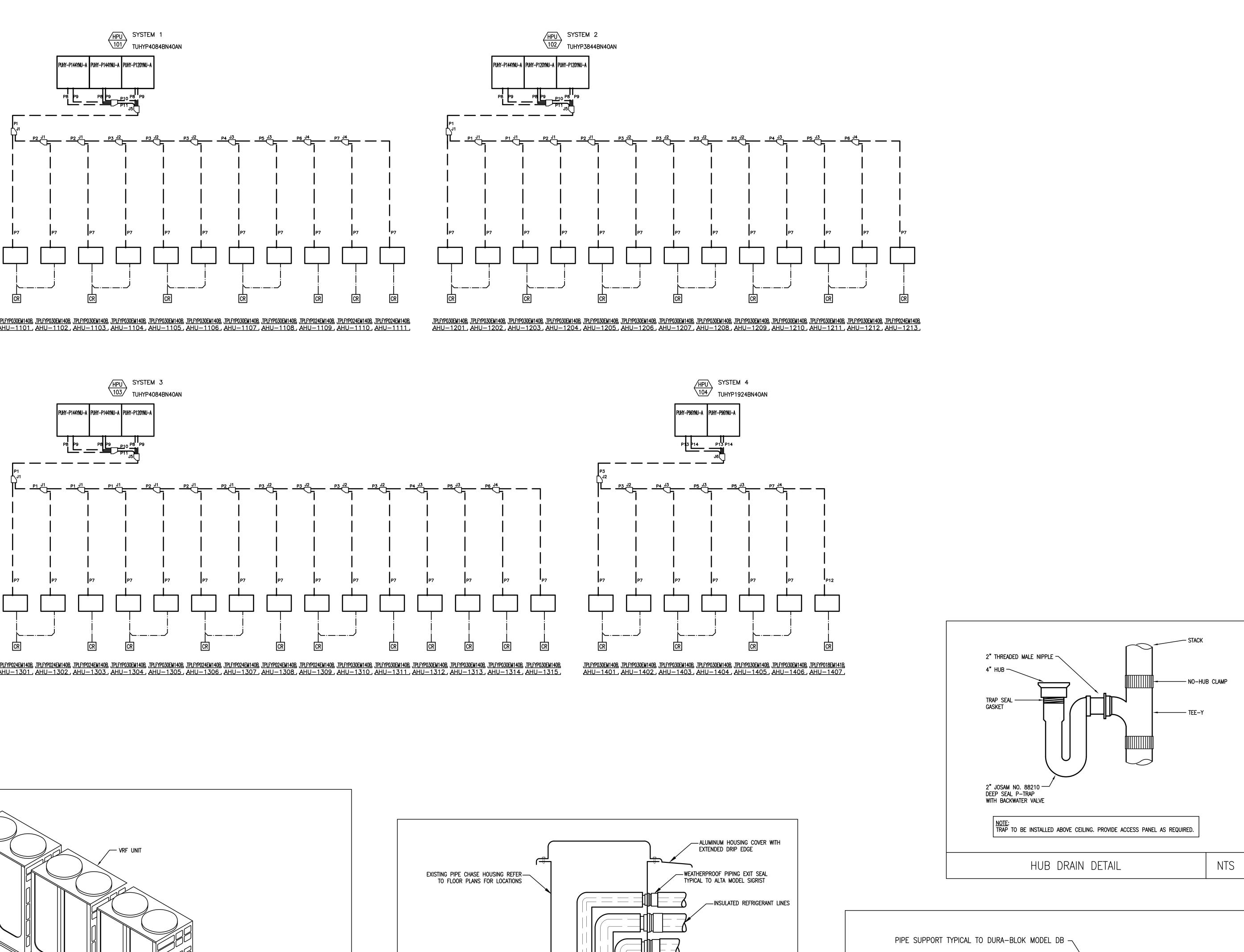


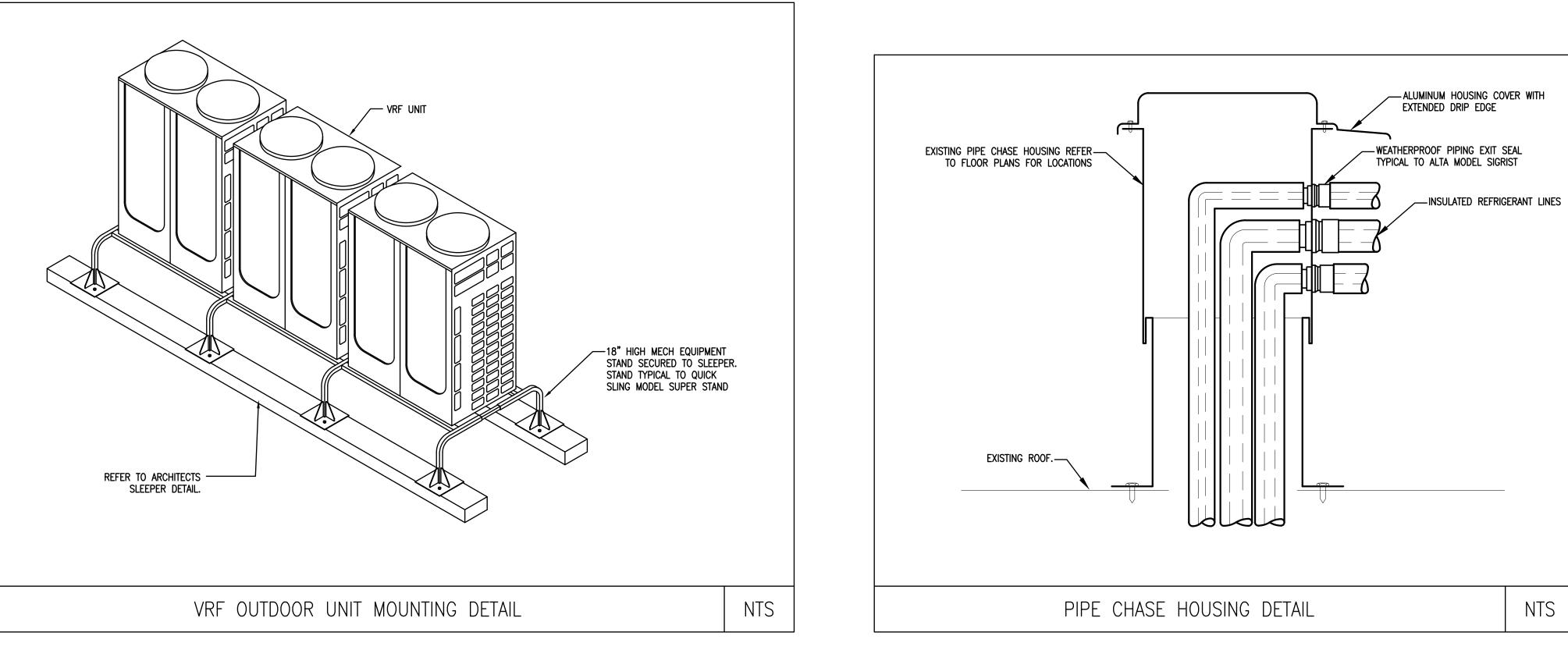


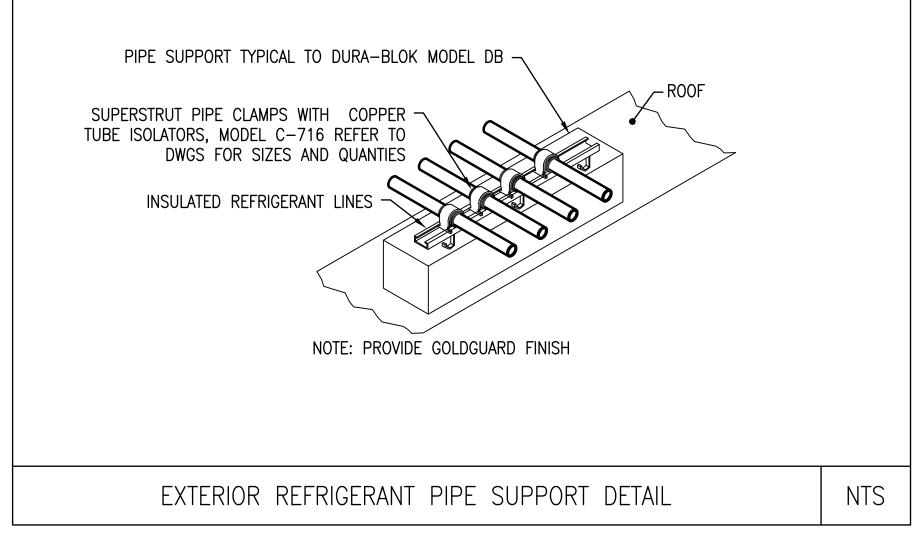


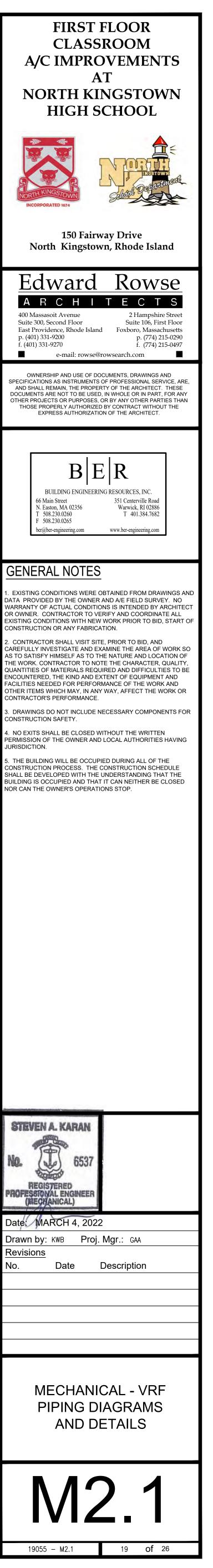


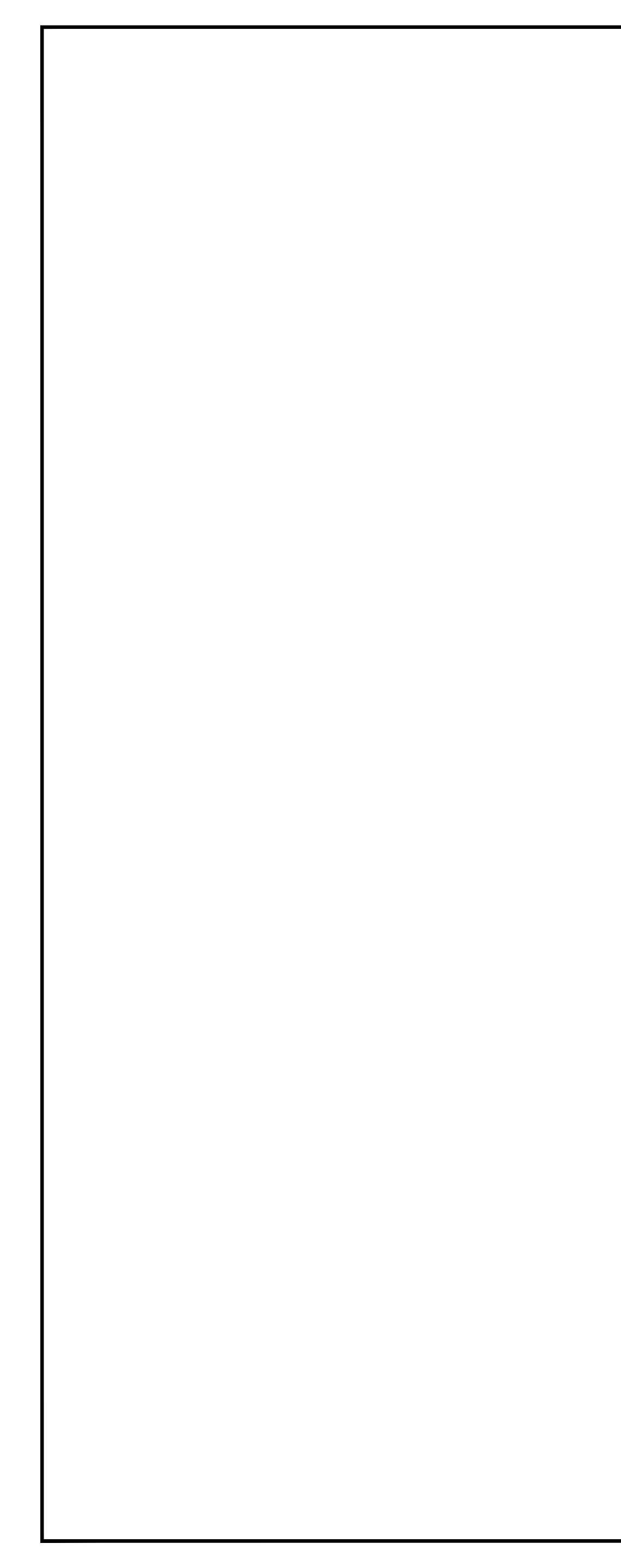












LEGE	ND	MISC	ELLANEOUS	DEMOLITION AN
* MOUNTIN	G HEIGHTS SHALL BE AS INDICATED SHOWN OTHERWISE ON ELECTRICAL	J~•	JUNCTION BOX WITH FLEXIBLE CONNECTION	A. REMOVE ALL ELECTRICAL
DRAWING	S OR ARCHITECTURAL ELEVATIONS IBOLS MAY NOT BE SHOWN ON PLANS	É	TO EQUIPMENT EXHAUST FAN	WORK AS REQUIRED. DISC FEEDING DEVICES WHICH
		ŒF	EXTAUSI FAN	CONDUCTORS NO LONGER CEILING AND PLUG BOTH
RACE	WAYS AND WIRING	ABBF	REVIATIONS	BY THIS ALTERATION. REM OUTLETS. REMOVE MATERIA
P4-1,3,5		3R	NEMA 3R RATING	DIRECTED. B. WHEREVER IT IS REQUIREI
╾╸╢╢╢	DENOTES NUMBER OF #12AWG CONDUCTORS IN MINIMUM 3/4"C. NO SLASH	4X	NEMA 4X RATING	AN EXISTING CIRCUIT, IMM REESTABLISH SERVICE IN
P4-		A	AMPERES	C. THE WORK SHALL ALSO II
		AFF	ABOVE FINISHED FLOOR	DIRECTED. PRIOR TO REM PROJECT SITE, THE BUILD
	NOTES:	AFG	ABOVE FINISHED GRADE	AND ADVISE WHICH ITEM D. WHERE EXISTING RECEPTA
	<ol> <li>GREEN GROUND CONDUCTOR NOT INDICATED BUT SHALL BE INCLUDED IN EACH RACEWAY. SIZE SHALL BE #12AWG UNLESS INDICATED OTHERWISE.</li> </ol>	AIC	AMPERE INTERRUPTING CAPACITY	COLUMNS AND/OR EXTERI REMOVE RECEPTACLE AND
RECE	PTACLES (mounted 18" aff or as indicated on architectural plans)	ARCH	ARCHITECT	PARTITIONS TO BE REMOV REMOVED AS WELL.
	DUPLEX RECEPTACLE, "2" DENOTES CIRCUIT NUMBER,	ATS	AUTOMATIC TRANSFER SWITCH	E. WHERE PRESENT WORK IS
<sup>IG</sup> ⊕ <sup>2</sup> GFI ⊕ ₩P	"GFI" DENOTES GROUND FAULT CIRCUIT INTERRUPTER TYPE DEVICE, "IG" DENOTES ISOLATED GROUND TYPE	AWG	AMERICAN WIRE GAUGE	CONTRACT, OR WHERE OP CONDUITS, EQUIPMENT, OF
	DEVICE, "WP" DENOTES WEATHER PROOF COVER	C	CONDUIT	OR CLOSED UP TO CORRI FINISH WITH THAT OR SIM
Ŧ	DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP OR AS INDICATED ON ARCHITECTURAL PLANS	C/B	CIRCUIT BREAKER	CALLED FOR. F. SHOULD ANY DAMAGE DUE
Ŧ	DOUBLE DUPLEX RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP OR AS INDICATED ON THE ARCHITECTURAL PLANS	C.T.	CURRENT TRANSFORMER	OCCUR TO THE FURNITUR APPARATUS, SUCH DAMAG
Ħ	DOUBLE DUPLEX RECEPTACLE	CAT	CATALOG	THE SUPPLY OF NEW ART CHARGE.
P	DUPLEX RECEPTACLE ONE HALF SWITCH CONTROLLED	CKT CU	CIRCUIT	G. WHERE REMOVAL OF EXIS
⊕ <sup>EWC</sup>	GFI DUPLEX RECEPTACLE FOR ELECTRIC WATER COOLER	DWG	DRAWING	OUTAGES IN AREA NOT TO COORDINATE IN ADVANCE
$\Phi$	DUPLEX RECEPTACLE FLOOR MOUNTED	E	WIRED ON EMERGENCY CIRCUIT	MANAGER OR OWNER.
▲ <sup>L6-30</sup>	SPECIAL PURPOSE RECEPTACLE, "L6–30" DENOTES TYPE, SEE POWER PLANS FOR EXACT TYPES USED	EC	ELECTRICAL CONTRACTOR	BRANCH CIRCL
12	FACTORY WIRED, FIELD ASSEMBLED UL LISTED, MULTIOUTLET ASSEMBLY.	EM	EMERGENCY	1. WIRING IS SHOWN ON
	"12" DENOTES SINGLE RECEPTACLES MOUNTED ON 12" CENTERS	ETD	EXISTING TO BE DEMOLISHED	CONDITIONS.
	FIELD WIRED, UL LISTED, OF MULTIOUTLET ASSEMBLY, QUANTITY AND TYPE DEVICES AS INDICATED	ETR	EXISTING TO REMAIN	2. WIRING AND CONDUIT S CIRCUIT NUMBERS AND
Φ	SINGLE RECEPTACLE	ETRL	EXISTING TO BE RELOCATED	3. ALL SWITCH CONTROLS
Φ <sup>T</sup>	TAMPER RESISTANT DUPLEX RECEPTACLE	ETRP	EXISTING TO BE REPLACED	REQUIRED.
PP	POWER POLE ASSEMBLY	G	GROUND	4. ALTHOUGH ALL BRANCH INTENT OF THESE DOCI
$\underline{\P  \nabla  \P  \nabla}$	SURFACE MOUNTED RACEWAY, DIVIDED RACEWAY WITH DATA AND DUPLEX RECEPTACLES AS INDICATED	GC	GENERAL CONTRACTOR	BE INSTALLED.
		GFI	GROUND FAULT INTERRUPTER	5. A GREEN GROUNDING ( CONDUIT SIZE TO ENSU GROUND CONDUCTORS.
POWE	R DISTRIBUTION EQUIPMENT	HVAC	HEATING, VENTILATION, AIR CONDITIONING CONTRACTOR	6. ALL 15A AND 20A, 12
	DISTRIBUTION PANEL	IG	ISOLATED GROUND	SHALL BE GFCI PROTEC
-	PANELBOARD, SURFACE MOUNTED	KCMIL	ONE THOUSAND CIRCULAR MILS	FIRE ALARM S`
-	PANELBOARD, FLUSH MOUNTED	KVA	KILOVOLT-AMPERES	
J	JUNCTION BOX, SIZED PER NEC	KVAR	KILOVOLT-AMPERES REACTIVE	(AIM) ADDRESSABLE II
2	MOTOR, "2" DENOTES HORSEPOWER	KW	KILOWATTS	(AOM) ADDRESSABLE C
$\boxtimes$	MAGNETIC MOTOR STARTER WITH ENCLOSURE, MINIMUM SIZE NEMA 1	МСВ	MAIN CIRCUIT BREAKER	
₹ <sup>P</sup>	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD.	MCC	MOTOR CONTROL CENTER	
	"P" DENOTES PILOT LIGHT	MLO	MAIN LUGS ONLY	
	NON-FUSED DISCONNECT SWITCH: "30/3" DENOTES 30 AMP/3 POLE SWITCH	NC	NORMALLY CLOSED	
Ŋ	FUSED DISCONNECT SWITCH: "30/20/3" DENOTES	NEC	NATIONAL ELECTRICAL CODE	
30/20/3	30 AMP/3 POLE SWITCH, 20 AMP FUSES	NL	NIGHT LIGHT	
$\boxtimes$	COMBINATION MAGNETIC STARTER AND FUSED DISCONNECT SWITCH. SIZE OF STARTER, SWITCH	NO	NORMALLY OPEN	
_	AND FUSE AS REQUIRED	NTS	NOT TO SCALE	
Ť	GROUND ROD, REFER TO PLANS FOR EXACT SIZE	ø	PHASE	
		Р	POLE	
	IANICAL EQUIPMENT	PC	PLUMBING CONTRACTOR	
TAG A	ABBREVIATIONS	P.T.	POTENTIAL TRANSFORMER	
AH	— DENOTES EQUIPMENT TYPE	PVC	POLYVINYL CHLORIDE	
	- DENOTES UNIT NUMBER	RL	NEW LOCATION OF RELOCATED DEVICE	
ACC	AIR-COOLED CONDENSER	SM	SURFACE MOUNT	
AHU	AIR HANDLING UNIT	ST	SHUNT TRIP	
В	BOILER	T/D	TEL/DATA	
СН	CHILLER CARINET LINIT HEATER	TEL	TELEPHONE	
CUH	CABINET UNIT HEATER	UG	UNDERGROUND	
EBB	ELECTRIC BASEBOARD	UNO	UNLESS NOTED OTHERWISE	
EF	EXHAUST FAN EXHAUST HOOD	V	VOLT	
EWH	ELECTRIC WALL HEATER	VIF	VERIFY IN FIELD	
FC	FAN COIL	W	WATT	
10				

WEATHERPROOF

TRANSFORMER

WP

XFMR

FAN COIL

PUMP

HEAT PUMP

MAKE-UP AIR UNIT

VARIABLE AIR VOLUME BOX

ELECTRIC WATER HEATER

ROOF TOP UNIT

UNIT HEATER

MAU

rtu

VAV

WH

## AND REMOVAL WORK

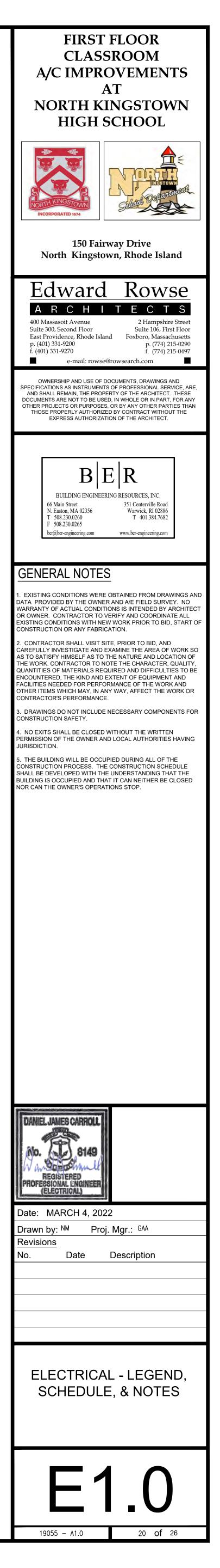
- CAL EQUIPMENT, WIRING, AND OTHER ELECTRICAL DISCONNECT LOAD AND LINE END OF CONDUCTORS CH ARE TO BE REMOVED OR ABANDONED, REMOVE IGER IN USE. CUT BACK TO FLOOR, WALL, OR OTH ENDS OF CONCEALED CONDUITS MADE OBSOLETE REMOVE EXPOSED OR ABANDONED CIRCUITS AND TERIAL AND EQUIPMENT AND DISPOSE OF AS
- UIRED TO DISCONNECT OR REMOVE ANY PART OF IMMEDIATELY RECONNECT THAT CIRCUIT OR IN THE REMAINING PORTION OF THE CIRCUIT.
- ) INCLUDE THE REMOVAL OF MATERIALS AS REMOVING EQUIPMENT AND MATERIAL FROM JILDING MANAGER OR OWNER WILL INSPECT ITEMS WILL BE STORED.
- PTACLES AND/OR SWITCHES ARE LOCATED IN (TERIOR WALLS, AND ARE NOT TO BE REUSED, AND CAP OUTLET BOX. RECEPTACLES SHOWN ON MOVED SHALL HAVE ALL WIRING AND CONDUIT
- K IS DAMAGED IN THE EXECUTION OF THIS OPENINGS ARE LEFT DUE TO THE REMOVAL OF I, OR APPARATUS, THE SAME SHALL BE REPAIRED ORRESPOND IN MATERIAL, QUALITY, SHAPE, AND SIMILAR AND ADJOINING WORK, UNLESS OTHERWISE
- DUE TO THE EXECUTION OF THIS CONTRACT TURE, FIXTURES, OR ANY OTHER EQUIPMENT OR MAGES SHALL BE PROPERLY REPAIRED WITH ARTICLES AND MADE GOOD WITHOUT EXTRA
- EXISTING ELECTRICAL EQUIPMENT WILL RESULT IN T TO BE DEMOLISHED, THIS CONTRACTOR SHALL NCE AND OBTAIN THE APPROVAL OF THE BUILDING

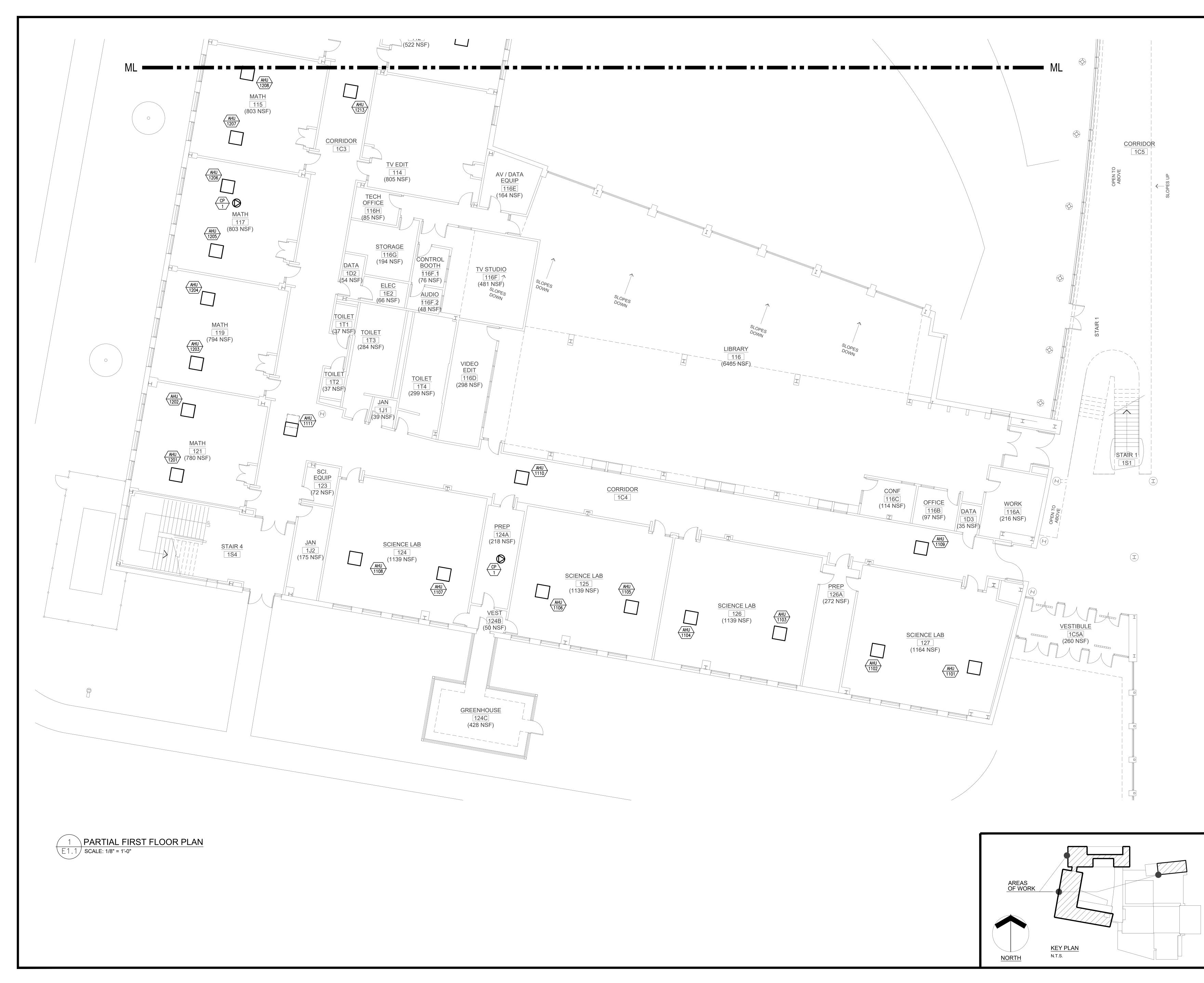
CUIT WIRING NOTES:

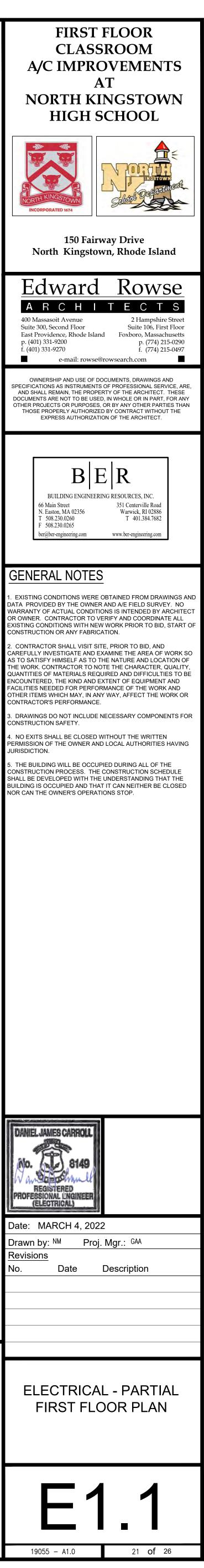
- ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL T SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH
- AND PANEL DESIGNATIONS.
- ROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS
- ANCH CIRCUIT WIRING AND CONDUIT IS NOT SHOWN, IT IS THE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM
- NG CONDUCTOR SHALL BE RUN WITH ALL CIRCUITS. VERIFY ENSURE IT CAN ACCOMMODATE ALL PHASE, NEUTRAL AND
- 125V RECEPTACLES IN NON-DWELLING TYPE OCCUPANCIES ROTECTED PER NEC ARTICLE 210.8(B).

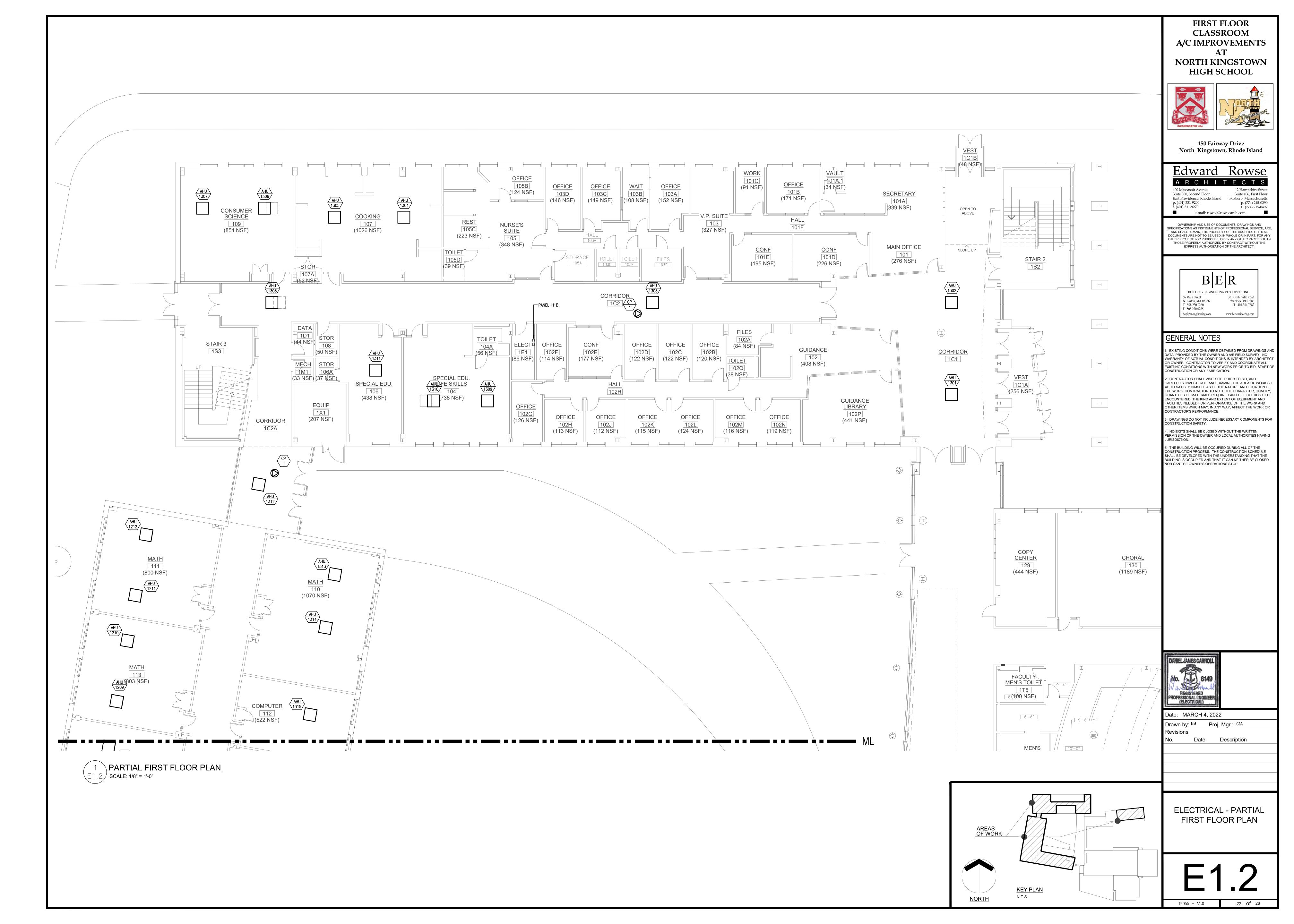
SYSTEM

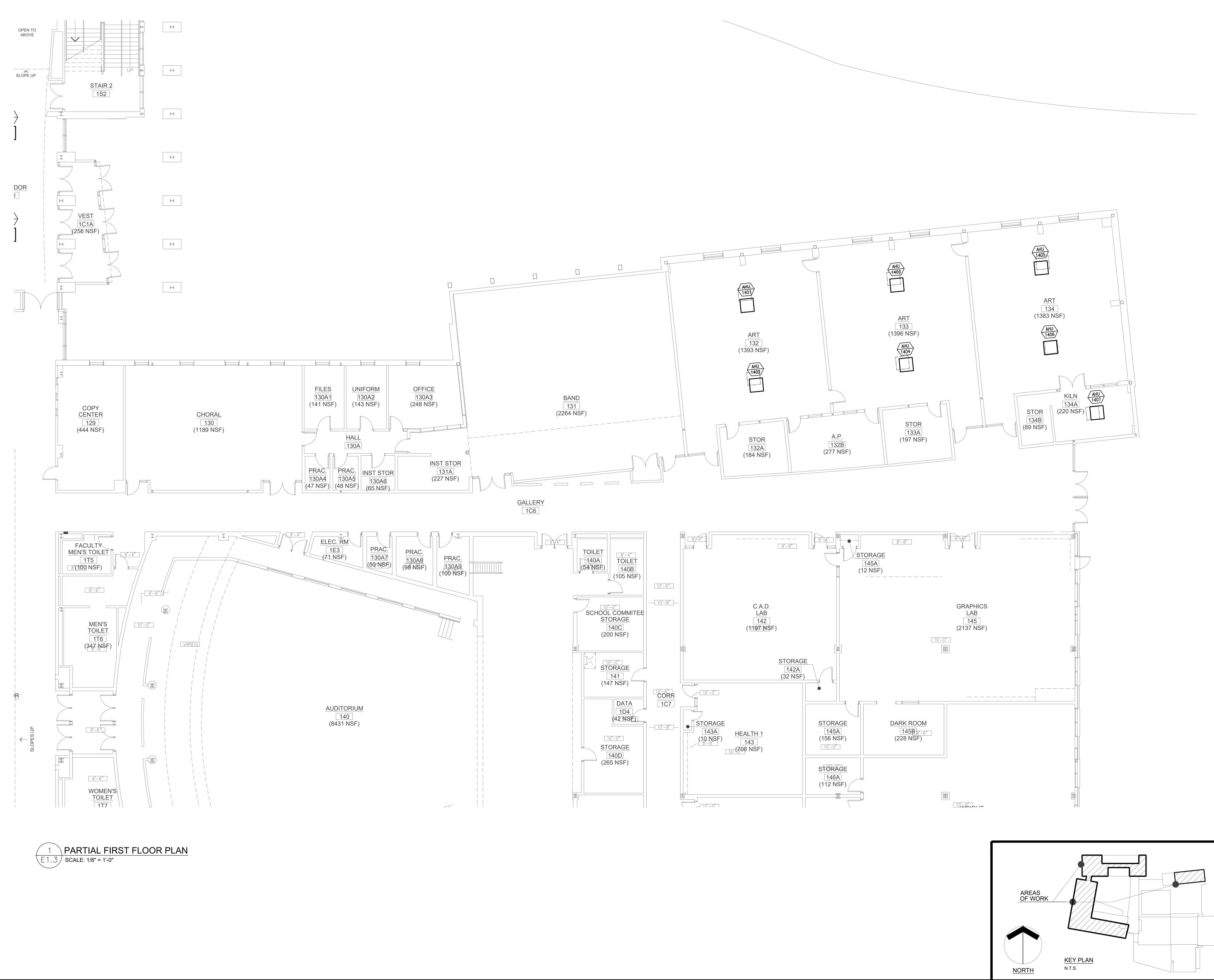
- INPUT MONITOR MODULE
- OUTPUT CONTROL MODULE

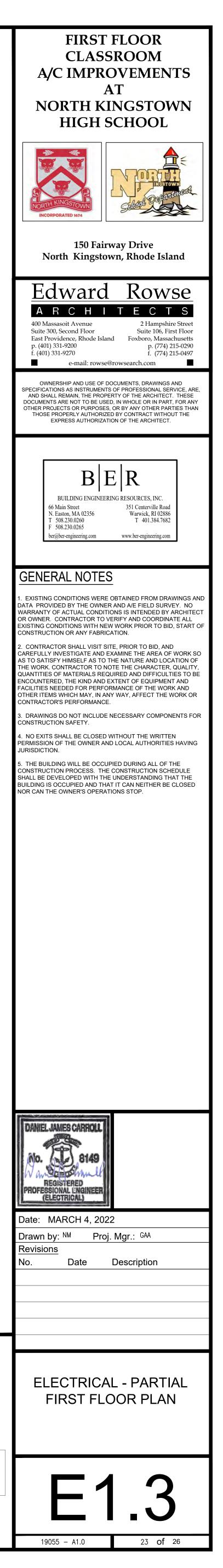


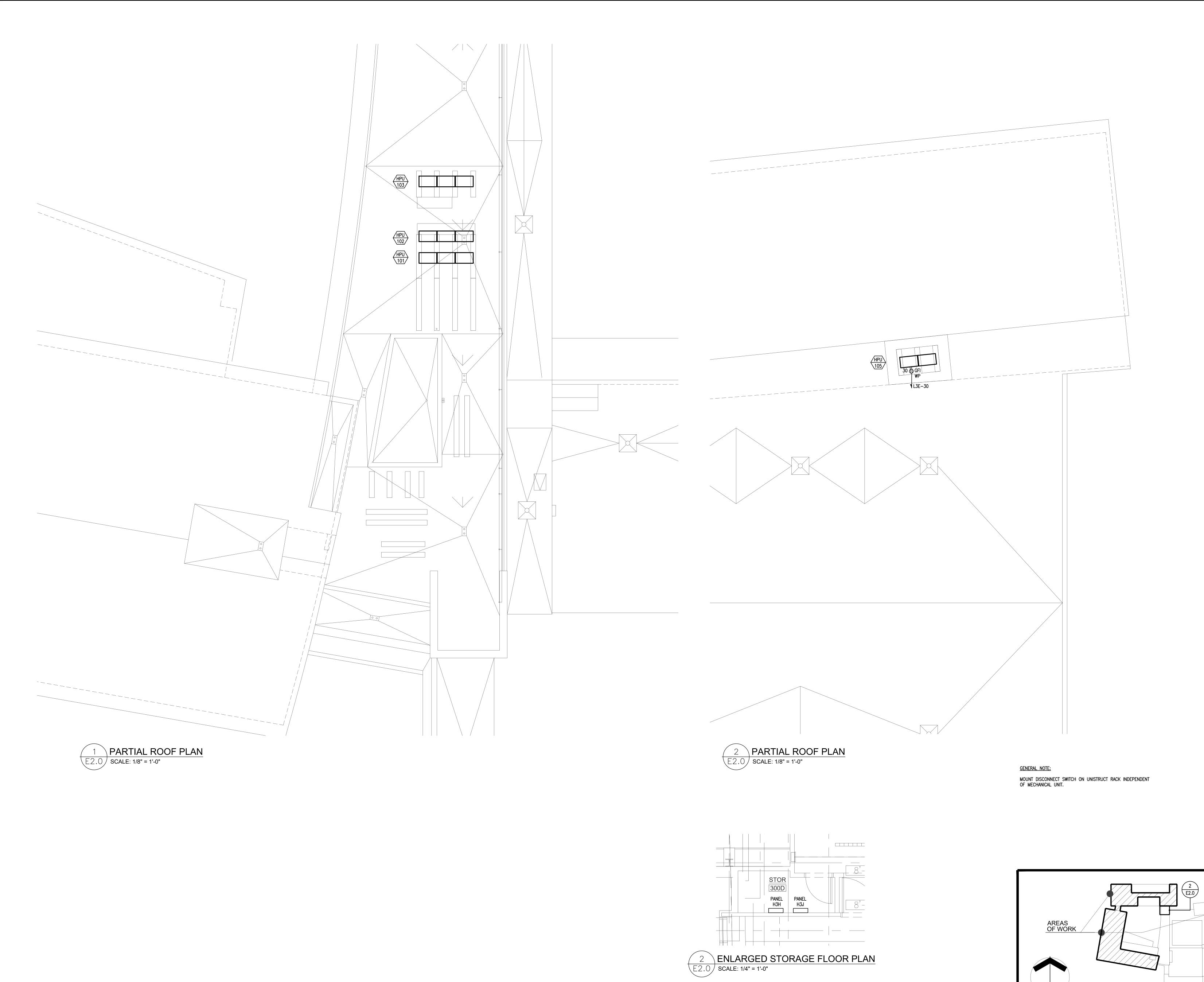


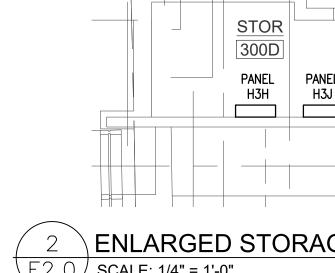






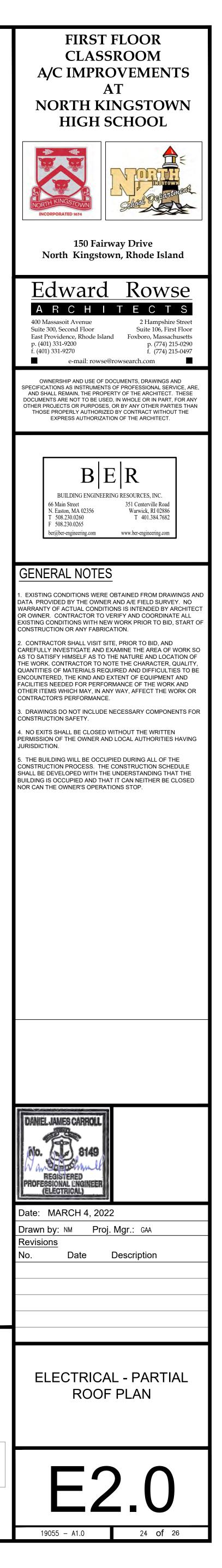


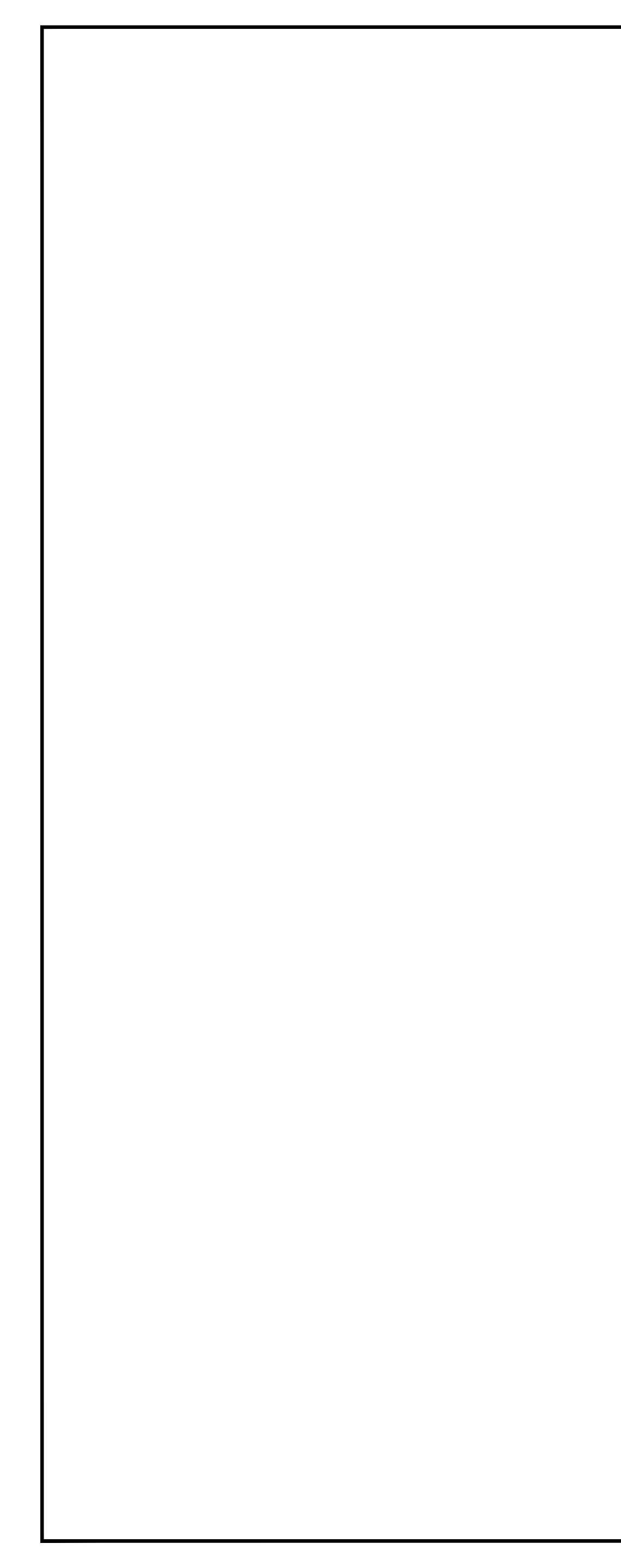




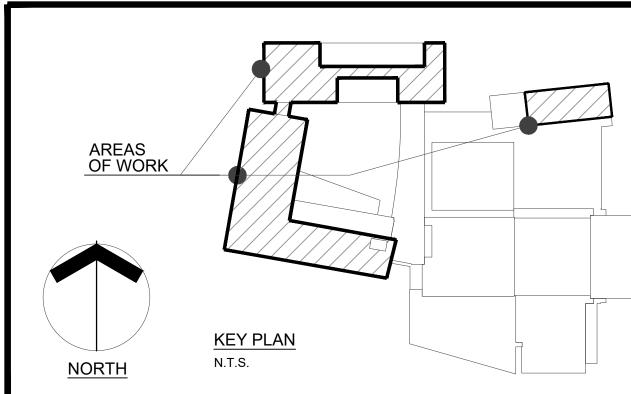
KEY PLAN N.T.S.

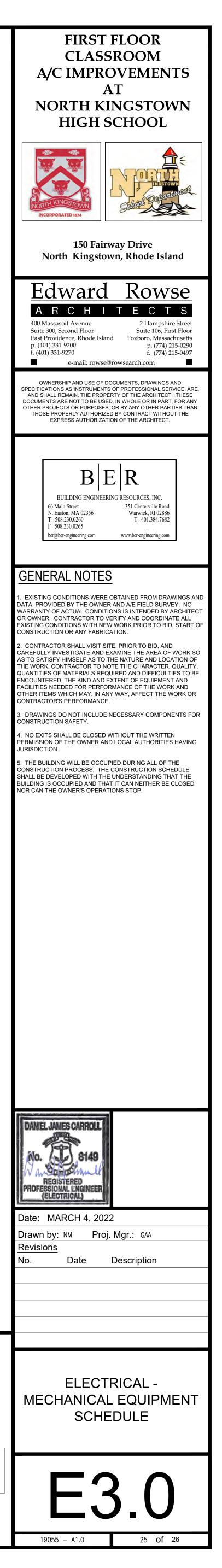
<u>NORTH</u>

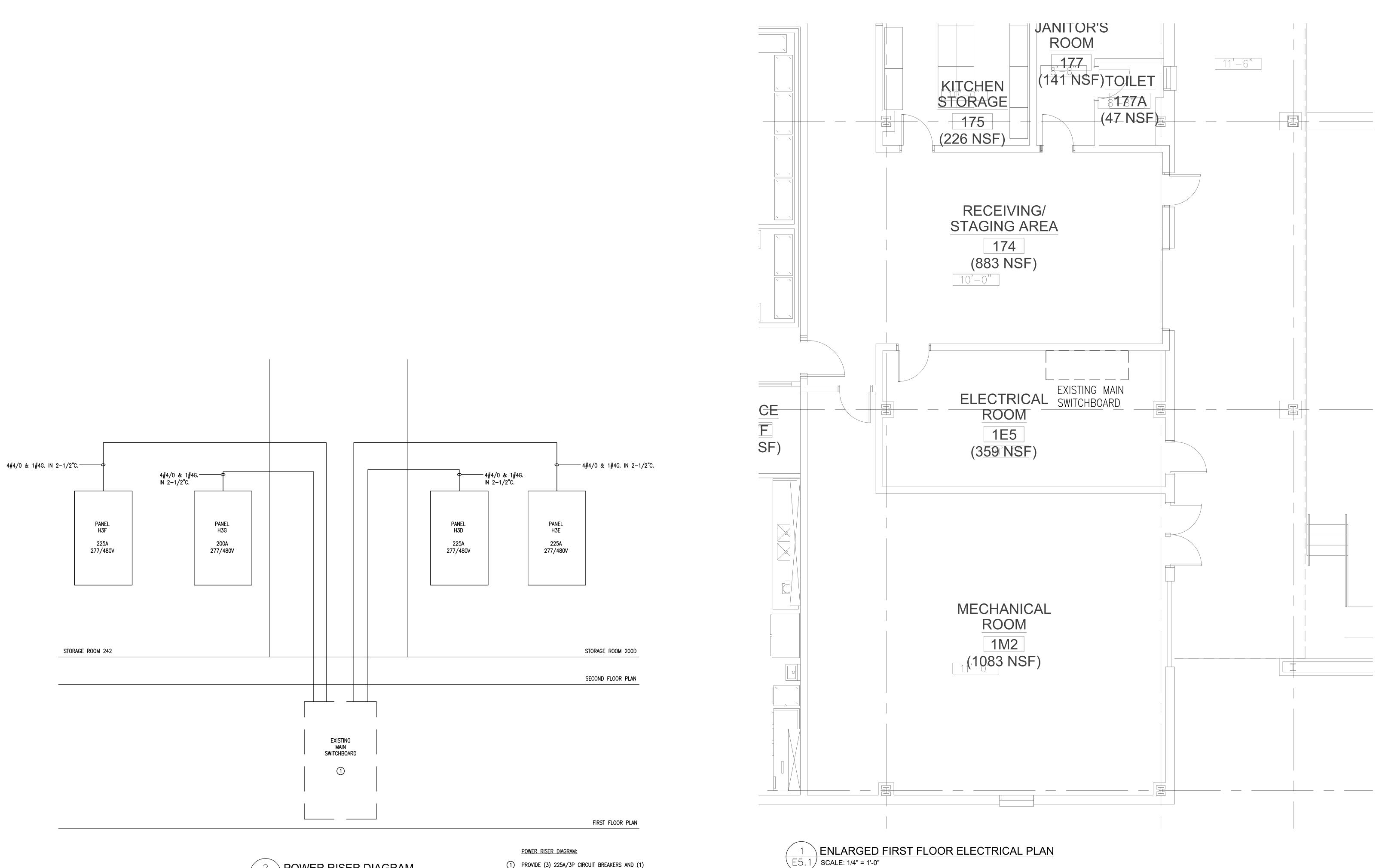




													<u> </u>					
TAG	DESCRIPTION	CHARACTERISTICS/LOAD		CHEDULE OF M	CIRCUIT		CONNECTIONS		MARKS	TAG	DESCRIPTION	CHARACTERISTICS/		CHEDULE OF M PANEL CIRCUIT	CIRCUIT		CONNECTIONS REQU	
NAME		MCA: 10			BREAKER	\$		<u>~</u> ₩₽ /			-			CIRCUIT	BREAKER		▼         ⊠         ⊡         ~           √         ✓         ✓         ✓	
HPU-101	MODULE 1	MOP: 25	480 3	H3H–1,3,5	25A/3P					AHU 2501		MOP: 15 MCA: .57	208 1	_		2#12 & 1#12G. IN 3/4"C.		
	MODULE 2	MOP: 25	480 3	H3H–7,9,11	25A/3P					AHU 2502		MOP: 15	208 1	_		2#12 & 1#12G. IN 3/4"C.		
	MODULE 3	MOP: 20	480 3	H3H-13,15,17						AHU 2503		MOP: 15	208 1	_		2#12 & 1#12G. IN 3/4"C.		
HPU-102	MODULE 1	MUP: 30	480 3	H3H-19,21,23	30A/3P					AHU 2504	AIR HANDLING	MUP: 15	208 1	_		2#12 & 1#12G. IN 3/4"C.		
	MODULE 2	MOP: 25	480 3	H3H-25,27,29	25A/3P	3#10 & 1#10G. IN 3/4"C.				AHU 2505	AIR HANDLING	MUP: 15	208 1	_		2#12 & 1#12G. IN 3/4"C.	$\checkmark$	
	MODULE 3	MUP: 25	480 3	H3H-31,33,35	25A/3P	3#10 & 1#10G. IN 3/4"C.		$\checkmark$		AHU 2506	AIR HANDLING	MUP: 15	208 1			2#12 & 1#12G. IN 3/4"C.	$\checkmark$	
HPU-103	MODULE 1	MCA: 22 MOP: 30	480 3	H3J-1,3,5	30A/3P	3#10 & 1#10G. IN 3/4"C.				AHU 2507	, AIR HANDLING	MCA: .57 MOP: 15	208 1			2#12 & 1#12G. IN 3/4"C.	$\checkmark$	
-	MODULE 2	MCA: 22 MOP: 30	480 3	H3J-7,9,11	25A/3P	3#10 & 1#10G. IN 3/4"C.		$\checkmark$		AHU 2508	AIR HANDLING	MCA: .57 MOP: 15	208 1	H1B-38,40	20A/2P	2#12 & 1#12G. IN 3/4"C.	$\checkmark$	
-	MODULE 3	MCA: 19 MOP: 25	480 3	H3J-13,15,17	20A/3P	3#12 & 1#12G. IN 3/4"C.				AHU 2509	AIR HANDLING	MCA: .57 MOP: 15	208 1			2#12 & 1#12G. IN 3/4"C.		
HPU-104	MODULE 1	MCA: 15 MOP: 20	480 3	H3J-19,21,23	25A/3P	3#10 & 1#10G. IN 3/4"C.				AHU 2510	AIR HANDLING	MCA: .57 MOP: 15	208 1	_		2#12 & 1#12G. IN 3/4"C.		
_	MODULE 2	MCA: 15 MOP: 20	480 3	H3J-25,27,29	25A/3P	3#10 & 1#10G. IN 3/4"C.		/		AHU 2511		MCA: .57 MOP: 15	208 1	_	2	2#12 & 1#12G. IN 3/4"C.		
AHU 1101	AIR HANDLING		208 1			2#12 & 1#12G. IN 3/4"C.		/		AHU 2512		NCA. 57	208 1	_		2#12 & 1#12G. IN 3/4"C.	· · · · ·	
AHU 1102	AIR HANDLING	101 57	208 1	-		2#12 & 1#12G. IN 3/4"C.	,	/		AHU 2513			208 1	_		2#12 & 1#12G. IN 3/4"C.	v v	
AHU 1103	AIR HANDLING	MCA: E7	208 1	_		2#12 & 1#12G. IN 3/4"C.	,			AHU 2514		1004 E7	208 1			2#12 & 1#12G. IN 3/4"C.		
AHU 1104	AIR HANDLING	MCA: 57	208 1	_		2#12 & 1#12G. IN 3/4"C. /	, , , , , , , , , , , , , , , , , , ,	/		AHU 2515		MCA: .39	208 1	_		2#12 & 1#12G. IN 3/4"C.	V V	
AHU 1105	AIR HANDLING	MCA: .57	208 1	_		2#12 & 1#12G. IN 3/4"C. /	,	/		2515 AHU 2516		MOP: 15 MCA: .39	208 1	_		2#12 & 1#12G. IN 3/4"C.		
1105 AHU 2106	AIR HANDLING	MCP: 15 MCA: .57	208 1	 H1B–30,32	20A/2P		,	/		2516 AHU 2517		MCA: .39	208 1	_		2#12 & 1#12G. IN 3/4"C.	$\overline{}$	
	AIR HANDLING	MCP: 15 MCA: .57	208 1		20/9/21	2#12 & 1#12G. IN 3/4"C.	, N			2517		MOP: 15					$\vee$       $\vee$	
AHU 1107 AHU	AIR HANDLING	MOP: 15 MCA: .57	208 1	_		2#12 & 1#12G. IN 3/4°C.	, , , , , , , , , , , , , , , , , , ,	$\frac{\sqrt{1}}{1}$										
AHU 1108		MOP: 15		_			/ N						PANELBOARD	SCHEDULE				
AHU 1109	AIR HANDLING	MOP: 15	208 1	_		2#12 & 1#12G. IN 3/4"C.	, , , , , , , , , , , , , , , , , , , ,			NOL		MAINS MLO: MAIN LUGS ONL' MCB: MAIN CKT. BKR	BRANCH D	EVICES SI SI	ACE BUS	ADDITIONAL		
AHU 1110	AIR HANDLING	MOP: 15	208 1	_		2#12 & 1#12G. IN 3/4"C.	/			PANEL	VOLTS PHASE WIRES	BUS OVERCURREN	BREAKER	AMPS DI I	E: FLUSH GROUND BUS	BRANCH REMARKS C.B.'S		
AHU 1111	AIR HANDLING	MOP: 15	208 1			2#12 & 1#12G. IN 3/4"C.				8		SIZE FRAME TRIP AMPS AMPS		0 50 60 70 🖌	- ₩ - ₩			
AHU 1201	AIR HANDLING	MUP: 15	208 1	_		2#12 & 1#12G. IN 3/4"C.				НЗН	277/480 3 4	- 225 225		42	S ✓			
AHU 1202	AIR HANDLING	MOP: 15	208 1	_		2#12 & 1#12G. IN 3/4"C.							3         1         3         2           1         -         -         -					
AHU 1203	AIR HANDLING	MCA: .57 MOP: 15	208 1			2#12 & 1#12G. IN 3/4"C.	′	$\checkmark$		H3J	277/480 3 4	– 225 225	2 – 3 2 2 1	42	S ✓			
AHU 1204	AIR HANDLING	MCA: .57 MOP: 15	208 1			2#12 & 1#12G. IN 3/4"C.		$\checkmark$		* INC	CLUDES SPACES							
AHU 1205	AIR HANDLING	MCA: .57 MOP: 15	208 1			2#12 & 1#12G. IN 3/4"C.	, \											
AHU 1206	AIR HANDLING	MCA: .57 MOP: 15	208 1			2#12 & 1#12G. IN 3/4"C.	,,,,,,,,											
AHU 1207	AIR HANDLING	MCA: .57 MOP: 15	208 1	_		2#12 & 1#12G. IN 3/4"C.	,											
AHU 1208	AIR HANDLING		208 1	– H1B–31,33	20A/2P	2#12 & 1#12G. IN 3/4"C.	,											
AHU 1209	AIR HANDLING	MCA: .57	208 1	_		2#12 & 1#12G. IN 3/4"C. /	, , , , , , , , , , , , , , , , , , ,	/										
AHU 1210	AIR HANDLING	MOP: 15 MCA: .57	208 1	_		2#12 & 1#12G. IN 3/4"C.	,	/										
1210 AHU 1211	AIR HANDLING	MCA: .57	208 1	_		2#12 & 1#12G. IN 3/4"C.	, N											
	AIR HANDLING	MCA: .57	208 1	_		2#12 & 1#12G. IN 3/4"C.	, N											
AHU 1212 AHU		MUP: 15		_			,											
AHU 1213	AIR HANDLING	MOP: 15	208 1			2#12 & 1#12G. IN 3/4"C.	/ N											
AHU 1301	AIR HANDLING	MOP: 15	208 1	_		2#12 & 1#12G. IN 3/4"C.	, , , , , , , , , , , , , , , , , , , ,											
AHU 1302	AIR HANDLING	MOP: 15	208 1	_		2#12 & 1#12G. IN 3/4"C.	, ,											
AHU 1303	AIR HANDLING	MUP: 15	208 1	_		2#12 & 1#12G. IN 3/4"C.												
AHU 1304	AIR HANDLING	MUP: 15	208 1	_		2#12 & 1#12G. IN 3/4"C.		$\checkmark$										
AHU 1305	AIR HANDLING	MUP: 15	208 1			2#12 & 1#12G. IN 3/4"C.		$\sqrt{ }$										
AHU 1306	AIR HANDLING	MUP: 15	208 1			2#12 & 1#12G. IN 3/4"C.												
AHU 1307	AIR HANDLING	MCA: .57 MOP: 15	208 1			2#12 & 1#12G. IN 3/4"C.												
AHU 1308	AIR HANDLING	MCA: .57 MOP: 15	208 1			2#12 & 1#12G. IN 3/4"C.												
AHU 1309	AIR HANDLING	MCA: .57 MOP: 15	208 1	H1B-34,36	20A/2P													
AHU 1310	AIR HANDLING	MCA: .57 MOP: 15	208 1			2#12 & 1#12G. IN 3/4"C.	/											
AHU 1311	AIR HANDLING	101 57	208 1			2#12 & 1#12G. IN 3/4"C.												
AHU 1312	AIR HANDLING		208 1	-		2#12 & 1#12G. IN 3/4"C.		<u>,</u>										
AHU 1313	AIR HANDLING	NOA 57	208 1	-		2#12 & 1#12G. IN 3/4"C.		<u>v</u>										
AHU 1314	AIR HANDLING	MCA: .57	208 1	-		2#12 & 1#12G. IN 3/4"C.		<u>v</u>										
1314 AHU 1315	AIR HANDLING	MCA: .57	208 1	-		2#12 & 1#12G. IN 3/4"C.		<u>v</u>										
	AIR HANDLING	MCA: .57	208 1			2#12 & 1#126. IN 3/4"C.		✓										
AHU 1401 AHU		MOP: 15 MCA: .57		_			, , , , , , , , , , , , , , , , , , ,	$\frac{\sqrt{1}}{1}$										
AHU 1402 AHU	AIR HANDLING	MOP: 15	208 1	_		2#12 & 1#12G. IN 3/4"C.		$\sqrt{ }$										
AHU 1403	AIR HANDLING	MOP: 15	208 1	_		2#12 & 1#12G. IN 3/4"C.		$\sqrt{ }$										
AHU 1404	AIR HANDLING	MOP: 15	208 1	H1B–35,37	20A/2P	2#12 & 1#12G. IN 3/4"C.												
AHU 1405	AIR HANDLING	MUP: 15	208 1	_		2#12 & 1#12G. IN 3/4"C.												
AHU 1406	AIR HANDLING	MUP: 15	208 1			2#12 & 1#12G. IN 3/4"C.												
AHU 1407	AIR HANDLING	MCA: .54 MOP: 15	208 1			2#12 & 1#12G. IN 3/4"C.												
CP-1	AIR HANDLING	MCA: .80 MOP: 15	120 1			2#12 & 1#12G. IN 3/4"C.												
CP-1	AIR HANDLING	MCA: .80 MOP: 15	120 1			2#12 & 1#12G. IN 3/4"C.												
CP-1	AIR HANDLING	MOA: 80	120 1	— H1B–41	20A/1P	2#12 & 1#12G. IN 3/4"C.												
CP-1	AIR HANDLING	MOA: 80	120 1	-		2#12 & 1#12G. IN 3/4"C.		v										
					<u> </u>			<b>V</b>								EAS	7	







2 POWER RISER DIAGRAM E5.1 SCALE: NOT TO SCALE POWER RISER DIAGRAM:
 PROVIDE (3) 225A/3P CIRCUIT BREAKERS AND (1)
 200A/3P CIRCUIT BREAKER.
 <u>NOTE:</u>

SEE ARCHITECTURAL DRAWINGS FOR PROPOSED CONDUIT ROUTING AND CEILING TILE REMOVAL.

