

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

March 4, 2022

Construction Documents

Edward Rowse ARCHITECTS

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 East Providence, RI 02914

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

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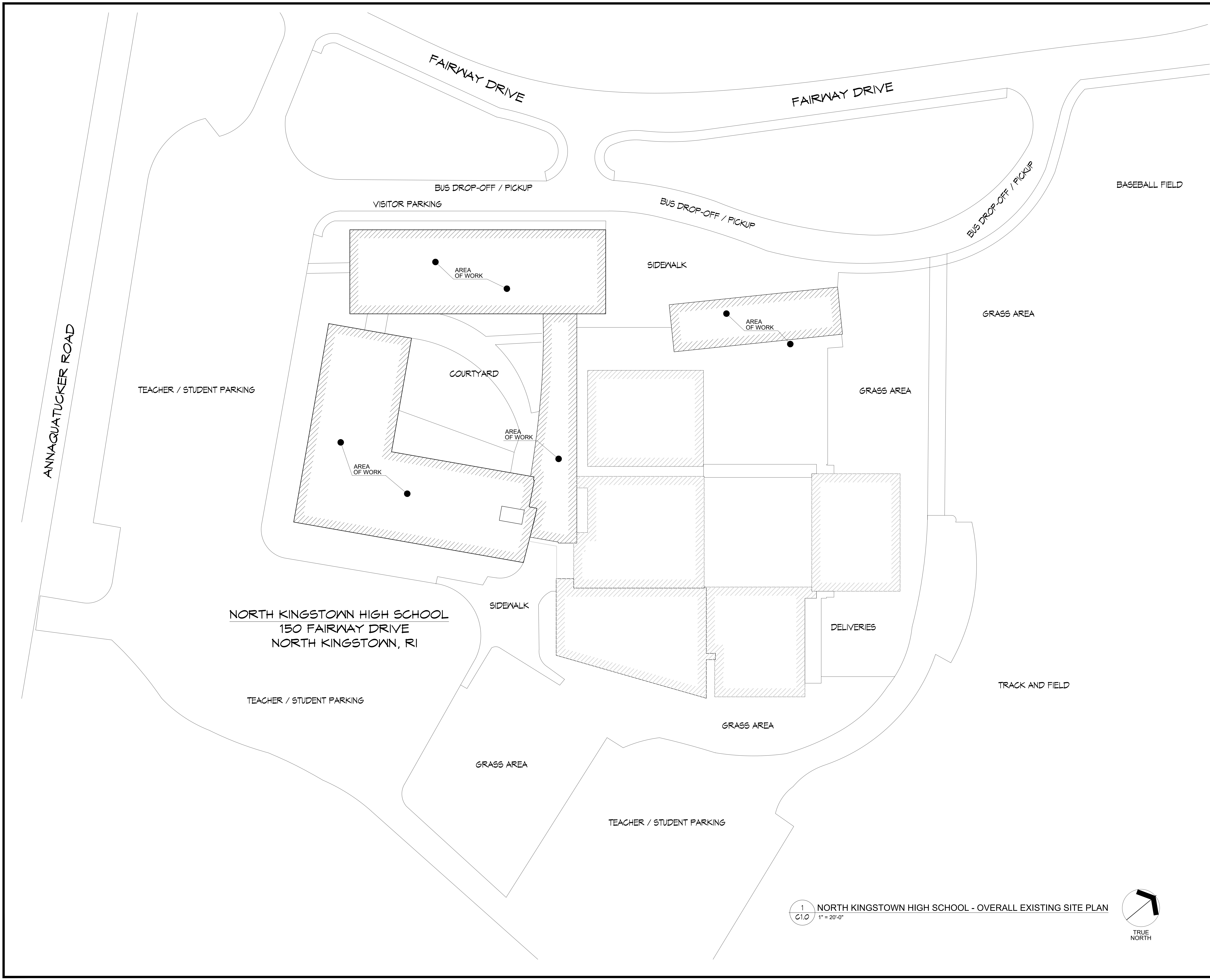
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Revisions

No.	Date	Description

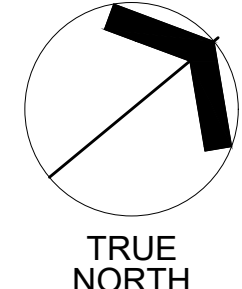
**OVERALL
SITE PLAN / KEY PLAN**

C1.0



**NORTH KINGSTOWN HIGH SCHOOL
150 FAIRWAY DRIVE
NORTH KINGSTOWN, RI**

1 NORTH KINGSTOWN HIGH SCHOOL - OVERALL EXISTING SITE PLAN
C1.0 1" = 20'-0"



A. GENERAL STRUCTURAL REQUIREMENTS

- ALL METHODS OF CONSTRUCTION, DETAILS, NOTES, ETC., INDICATED ON THE DRAWINGS ARE TO BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.
- CONSTRUCTION SHALL BE MADE FROM APPROVED SHOP DRAWINGS ONLY.
- ANY DISCREPANCIES ON THESE PLANS WITH REGARD TO DIMENSIONS OR CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PORTION OF WORK.
- ALL APPLICABLE FEDERAL, STATE, AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT AND THE RHODE ISLAND STATE BUILDING CODE.
- THE LATEST EDITION OF THE FOLLOWING LISTED CODES SHALL APPLY. IN CASE OF CONFLICT, THE MORE RIGID REQUIREMENTS AND CODES SHALL GOVERN.
 - RHODE ISLAND STATE BUILDING CODE (STATE CODE): INTERNATIONAL BUILDING CODE, 2015 EDITION AND ITS APPLICABLE REFERENCED STANDARDS.
 - AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS AND ITS CODE OF STANDARD PRACTICE (AISC)
- THE DESIGN LOADS ARE RESISTED BY THE COMPLETED STRUCTURE ACTING AS A UNIT. THE CONTRACTOR SHALL DESIGN AND PROVIDE ANY AND ALL TEMPORARY BRACING, SHORING, OR ADDITIONAL REINFORCEMENT NECESSARY TO RESIST LOADS IMPOSED ON ANY PORTION OF THE STRUCTURE THROUGHOUT ALL STAGES OF CONSTRUCTION. THE SHORING SHALL BE DESIGNED TO RESIST ALL DEAD LOADS AND ANY APPLICABLE CONSTRUCTION LOADS.
- ALL SHORING DESIGNS AND PLANS SHALL BE STAMPED BY A RHODE ISLAND REGISTERED PROFESSIONAL ENGINEER.
- NOTES AND TYPICAL DETAILS APPLY TO ALL STRUCTURAL WORK UNLESS OTHERWISE NOTED. FOR CONDITIONS NOT SPECIFICALLY SHOWN PROVIDE DETAILS OF SIMILAR NATURE. VERIFY APPLICABILITY BY SUBMITTING SHOP DRAWINGS FOR REVIEW.
- PLANS SHALL NOT BE SCALED FOR DIMENSIONS.
- ARCHITECTURAL AND MEP DRAWINGS MUST BE USED IN CONJUNCTION WITH THE STRUCTURAL DRAWINGS DURING ALL PHASES OF CONSTRUCTION.

B. DESIGN LOADS

GENERAL:	
BUILDING RISK CATEGORY.....	III
FROST DEPTH	3'-4"
ROOF LIVE LOADS (SNOW):	
IMPORTANCE FACTOR.....	1.1
GROUND SNOW LOAD (Pg).....	30 psf
FLAT ROOF SNOW LOAD (Pf).....	30 psf
EXPOSURE FACTOR (Ce).....	1.0
THERMAL FACTOR (Ct).....	1.0
WIND LOADS:	
ULTIMATE WIND DESIGN SPEED (Vult).....	147 mph
NOMINAL DESIGN WIND SPEED (Vas0).....	114 mph
EXPOSURE CATEGORY.....	C
ENCLOSED BUILDING (Gcpl).....	+/-0.18
EARTHQUAKE LOADS:	
IMPORTANCE FACTOR.....	1.25
MAPPED SPECTRAL RESPONSE ACCELERATIONS (Ss, S1).....	0.167, 0.059
SITE CLASS.....	D
DESIGN SPECTRAL RESPONSE COEFFICIENTS (Sds, Sd1).....	0.178, 0.094
SEISMIC DESIGN CATEGORY.....	B
DESIGN PROCEDURE.....	EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL FORCE RESISTING SYSTEMS.....	STRUCTURAL STEEL SYSTEM NOT SPECIFICALLY DESIGNED FOR SEISMIC RESISTANCE (R=3)

C. STEEL DECKS

- ALL STEEL DECKING SHALL CONFORM TO THE STEEL DECK INSTITUTE (SDI) APPLICABLE SPECIFICATIONS AND REQUIREMENTS. INSTALLATION SHALL BE PER THE MANUFACTURER'S RECOMMENDATIONS IN ACCORDANCE WITH SDI SPECIFICATIONS. PROVIDE SHEET METAL POUR STOPS WITH 16 GAUGE MINIMUM THICKNESS (SEE TYPICAL DETAILS).
- STEEL DECK SHALL TYPICALLY BE STORED OFF THE GROUND AT THE JOB SITE, AND BE PROTECTED FROM THE ELEMENTS WITH A WATERPROOF COVERING WHERE REQUIRED.
- DECK SHEETS SHALL BE PLACED IN ACCORDANCE WITH APPROVED ERECTION LAYOUT DRAWING (INCLUDING FASTENING SCHEDULE) SUPPLIED BY THE DECK MANUFACTURER AND IN CONFORMANCE WITH THE MANUFACTURER'S STANDARDS. UNLESS NOTED OTHERWISE, END LAPS SHALL OCCUR OVER SUPPORTS, AND SHALL NOT BE LESS THAN 2" MINIMUM.
- ALL STEEL TO BE USED FOR DECKING SHALL BE GALVANIZED.
- DECK GAUGE, DEPTH, AND TYPE SHALL BE AS INDICATED ON THE DRAWINGS.
- SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- DECK SPANS ARE DESIGNED TO MINIMIZE SHORING REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR ACCOMPLISHING ANY SHORING REQUIRED TO RESIST CONSTRUCTION LOADS ON THE STEEL DECKS.
- ROOF DECK WAS SELECTED ASSUMING TRIPLE SPAN CONDITION.
- PROVIDE 20 GA., GALV. STEEL PLATES AT ALL RIDGES, VALLEYS AND LOCATIONS WHERE DECK CHANGES DIRECTION FOR CONTINUOUS EVEN SURFACE.
- USE WELD WASHERS WHERE RECOMMENDED BY THE DECK MANUFACTURER.
- USE FM-APPROVED STEEL ROOF DECK. FASTENING PATTERN TO CONFORM TO FM-APPROVAL GUIDE FOR CLASS 1-90 AND AS INDICATED BELOW (TYPICAL UNLESS NOTED OTHERWISE):

1 1/2" ROOF DECK:
SUPPORTS: 5/8" RIDGILE WELD, 36/7 PATTERN
SIDE LAPS: #10 TEK SCREWS @ 6" O.C. (MAX.)

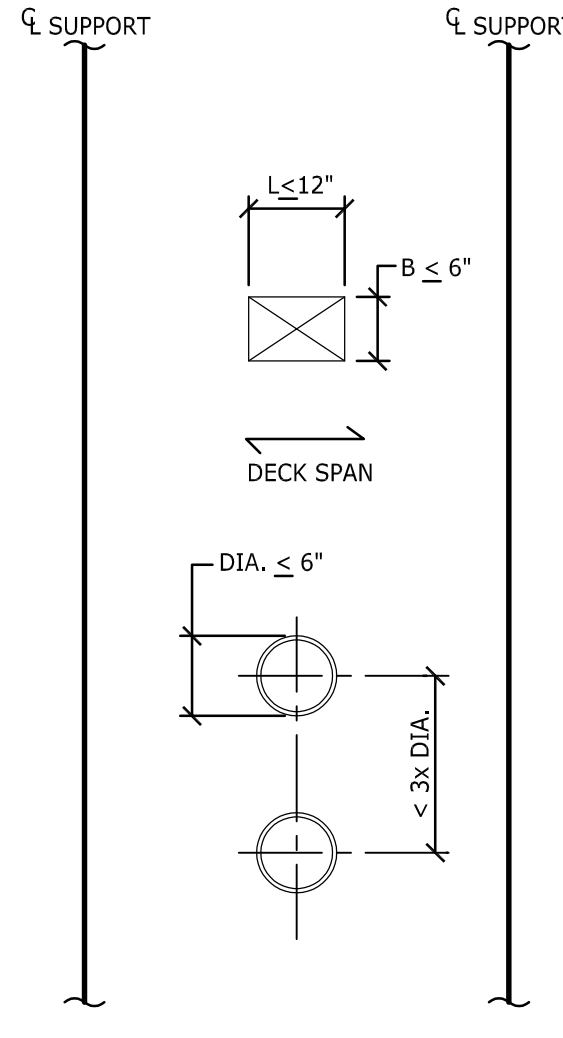
D. STRUCTURAL STEEL

- DESIGN FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH AISC SPECIFICATION FOR BUILDINGS.
- NEW STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:

A) STRUCTURAL STEEL	A572 OR A992 GR. 50	Fy=50 KSI
B) TYPICAL PLATES AND ANGLES	ASTM A36	Fy=36 KSI
C) STRUCTURAL TUBING	ASTM A500, GR. B	Fy=46 KSI
D) HIGH STRENGTH BOLTS	ASTM F1554 (GR. A325 TYPE I)	Fy=92 KSI
E) CAST-IN-PLACE ANCHOR RODS	F1554 (GRADE 36)	Fy=36 KSI
F) HEADED STUDS	A108 GR. 50	Fy=50 KSI
G) DRILL & EPOXY ANCHOR RODS	A449	Fy=92 KSI
- SHAPES NOTED "GALV." ON DRAWINGS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123.
- ALL STRUCTURAL STEEL CONNECTIONS NOT SPECIFICALLY DETAILED ON THE PLANS SHALL BE DESIGNED BY THE CONTRACTOR IN ACCORDANCE WITH THE CURRENT EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRENGTH DESIGN (ASD)". DESIGN FOR ALL CONNECTIONS SHALL BE STAMPED BY A RI PROFESSIONAL ENGINEER ENGAGED BY THE CONTRACTOR AND SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION. CONNECTIONS SHALL BE DESIGNED TO DEVELOP (1/2) OF MEMBER'S TOTAL UNIFORM LOAD CAPACITY, TYPICAL UNLESS NOTED OTHERWISE.
- ALL BOLTED CONNECTIONS SHALL USE 3/4" DIA., A-325-N TYPE I BOLTS, UNLESS NOTED OTHERWISE.
- ALL NEW STRUCTURAL STEEL SHALL BE GIVEN ONE COAT OF AN APPROVED SHOP PRIMER APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, UNLESS NOTED OTHERWISE (SEE NOTE 8 BELOW). DO NOT PAINT TOP FLANGES OF BEAMS THAT RECEIVE SHEAR STUDS. SHOP PAINTING OF STRUCTURAL STEEL SHALL CONFORM TO SSPC-SP2 (INTERIOR SURFACES) OR SSPC-SP6 (EXTERIOR SURFACES).
- AFTER ERECTION IS COMPLETE, TOUCH-UP ALL SHOP PRIMED COATS DAMAGED DURING TRANSPORT AND ERECTION, AND PRIME ALL FIELD WELDS USING THE SAME PAINT USED FOR SHOP PRIMING.
- ANY STRUCTURAL STEEL TO RECEIVE SPRAY-ON FIREPROOFING SHALL BE FABRICATED WITHOUT ANY PRIMER OR PAINT COATINGS. COORDINATE WITH THE ARCHITECT REGARDING ADDITIONAL INFORMATION RELATED TO FIREPROOFING.
- ALL EXPOSED STRUCTURAL STEEL AND CONNECTORS SHALL BE PRIMED AND PAINTED WITH AN APPROVED PAINT SYSTEM.
- HIGH STRENGTH BOLTS SHALL BE TORQUED TO 70% OF THE MINIMUM TENSILE STRENGTH OF THE BOLT IN CONFORMANCE WITH AISC SPECIFICATION FOR STRUCTURAL JOINTS USING A-325-N TYPE I BOLTS. PROVIDE ONE HARDENED WASHER UNDER THE ELEMENT TURNED IN TIGHTENING.
- WELDS SHALL BE MADE ONLY BY OPERATORS CERTIFIED BY THE STANDARD QUALIFICATION PROCEDURE OF THE AMERICAN WELDING SOCIETY.
- WELDING: IN ACCORDANCE WITH LATEST EDITION OF AWS D1.1 CODE FOR WELDING IN BUILDING CONSTRUCTION. USE E70 SERIES ELECTRODES UNLESS NOTED OTHERWISE.
- FIELD WELDING OF STRUCTURAL MEMBERS IS NOT PERMITTED UNLESS SPECIFICALLY INDICATED.
- FURNISH AND INSTALL ONE WASHER AND ONE HEAVY HEX NUT WITH ASTM F1554 ANCHOR BOLTS UNLESS OTHERWISE INDICATED.
- PROVIDE FITTED WELDED 3/8" WEB STIFFENER PLATES ON EACH SIDE OF ALL BEAMS SEATED ON WALLS UNLESS NOTED OTHERWISE.
- FIELD CUTTING OR MODIFICATION OF STRUCTURAL STEEL IS PROHIBITED UNLESS PRIOR WRITTEN APPROVAL IS RECEIVED FROM THE ENGINEER.
- SURFACES OF GALVANIZED MEMBERS TO BE WELDED SHALL BE GROUND TO BARE METAL PRIOR TO WELDING, AND TOUCHED UP AFTER WELDING.
- MINIMUM FILLET WELD (LEG) SIZE SHALL BE 3/16", UNLESS NOTED OTHERWISE.
- SHEARED ENDS OF GALVANIZED PRETENSIONED TWIST-OFF SPLINE BOLTS SHALL BE TOUCHED UP WITH A ZINC RICH PRIMER IN ACCORDANCE WITH ASTM A780 AFTER INSTALLATION.

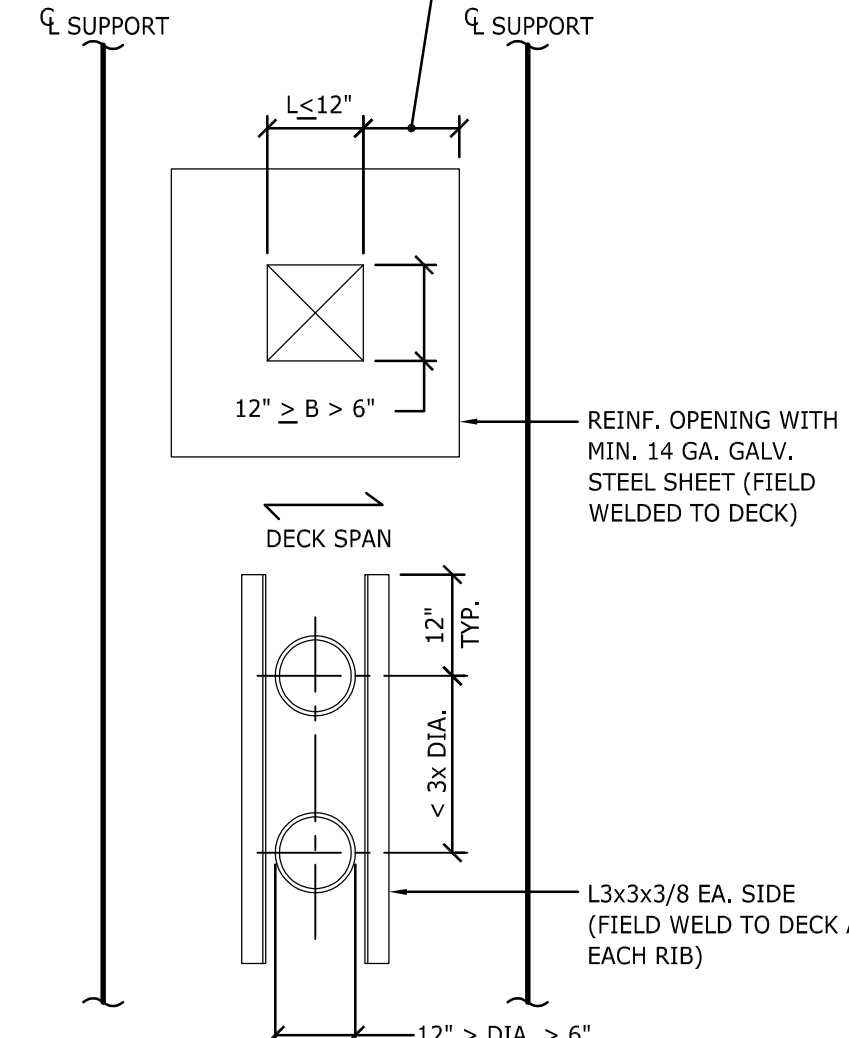
ABBREVIATIONS

ADD'L	ADDITIONAL	LONG.	LONGITUDINAL
ARCH	ARCHITECT	L.W.	LONG WAY
BOF	BOTTOM OF FOOTING	MAX.	MAXIMUM
CMF	COLD FORMED METAL FRAMING	M.C.	MOMENT CONNECTION
CIP	CAST-IN-PLACE	MECH	MECHANICAL
CLR	CLEAR	MIN.	MINIMUM
COL	COLUMN	MTL	METAL
CONC.	CONCRETE	NF	NEAR FACE
CMU	CONCRETE MASONRY UNIT	NTS	NOT TO SCALE
CJ	CONTROL JOINT	O.C.	ON CENTER
CL	CENTER LINE	R & D	REMOVE AND DISPOSE
CONSTR. JT.	CONSTRUCTION JOINT	REINF.	REINFORCING
CONT.	CONTINUOUS	SJ	SAWN JOINT
DIA	DIAMETER	TCC	TOP OF CONCRETE
DWL'S	DOWELS	TOP	TOP OF FOOTING
DWS	DRAWING	TOW	TOP OF WALL
EA.	EACH	TSL	TOP OF SLAB
E.F.	EACH FACE	TST	TOP OF STEEL
E.W.	EACH WAY	TYP.	TYPICAL
ELEV.	ELEVATION	UNO.	UNLESS NOTED OTHERWISE
EQ.	EQUAL	V.I.F.	VERIFY IN FIELD
F.FE	FINISH FLOOR ELEVATION	WWF	WELDED WIRE FABRIC
FND	FOUNDATION	W/	WITH
FOOTING	FOOTING	W.P.	WORKING POINT
GA.	GAUGE		
GALV.	GALVANIZED		
HORIZ.	HORIZONTAL		
HSS	HOLLOW STRUCTURAL SHAPE		
I.F.	INSIDE FACE		



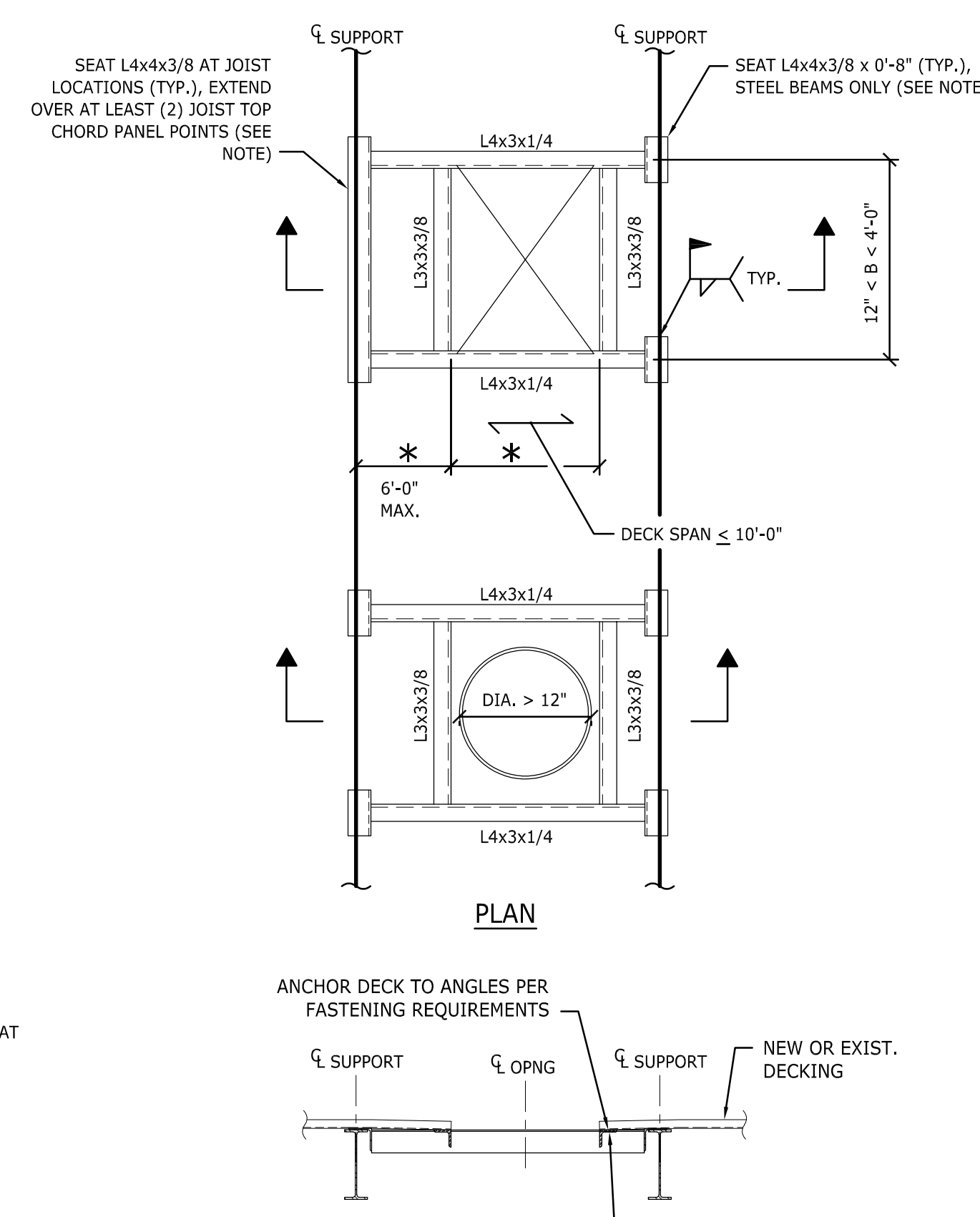
TYPE I

NO REINF. REQ'D FOR OPENINGS (METAL DECK CONTRACTOR SHALL PROVIDE DECK CLOSURE AT ALL PIPE CHASES)



TYPE II

REINF. OPENINGS WITH MIN. 14 GA. GALV. STEEL SHEET 12" OR GREATER ON ALL SIDES OF OPENING, OR REINF. OPENING WITH 3x3x3/8 EA. SIDE OF OPENING PERPENDICULAR TO DECK SPAN AND EXTENDING 12" BEYOND OPENING EA. END



SECTION

TYPE III

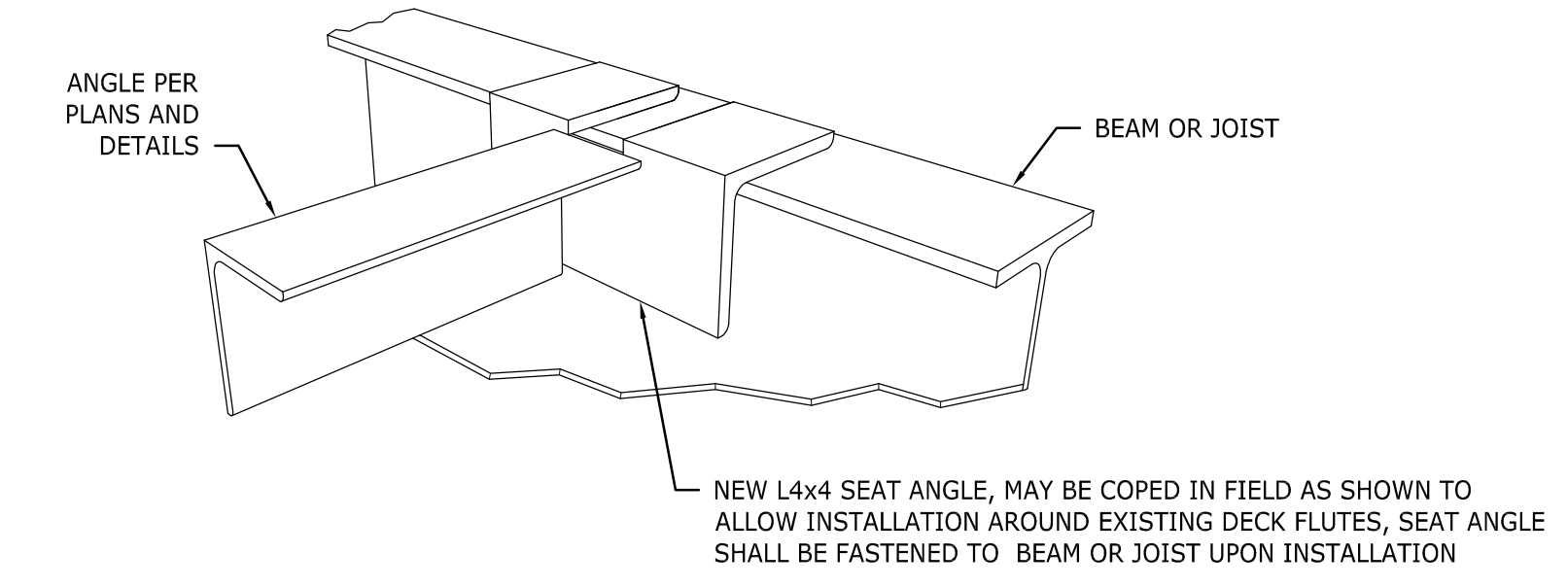
* GENERAL CONTRACTOR TO COORDINATE DIMENSIONS
FOR EXIST. DECKING, DECK MAY BE SECURED TO ANGLES WITH #12 SELF-TAPPING SCREWS AT 12" O.C. (TYP., 6" O.C. WITHIN 6'-0" OF ROOF EDGE) FROM BELOW INTO BOTTOM OF DECK FLUTE

TYPICAL OPENINGS IN ROOF

NOT TO SCALE

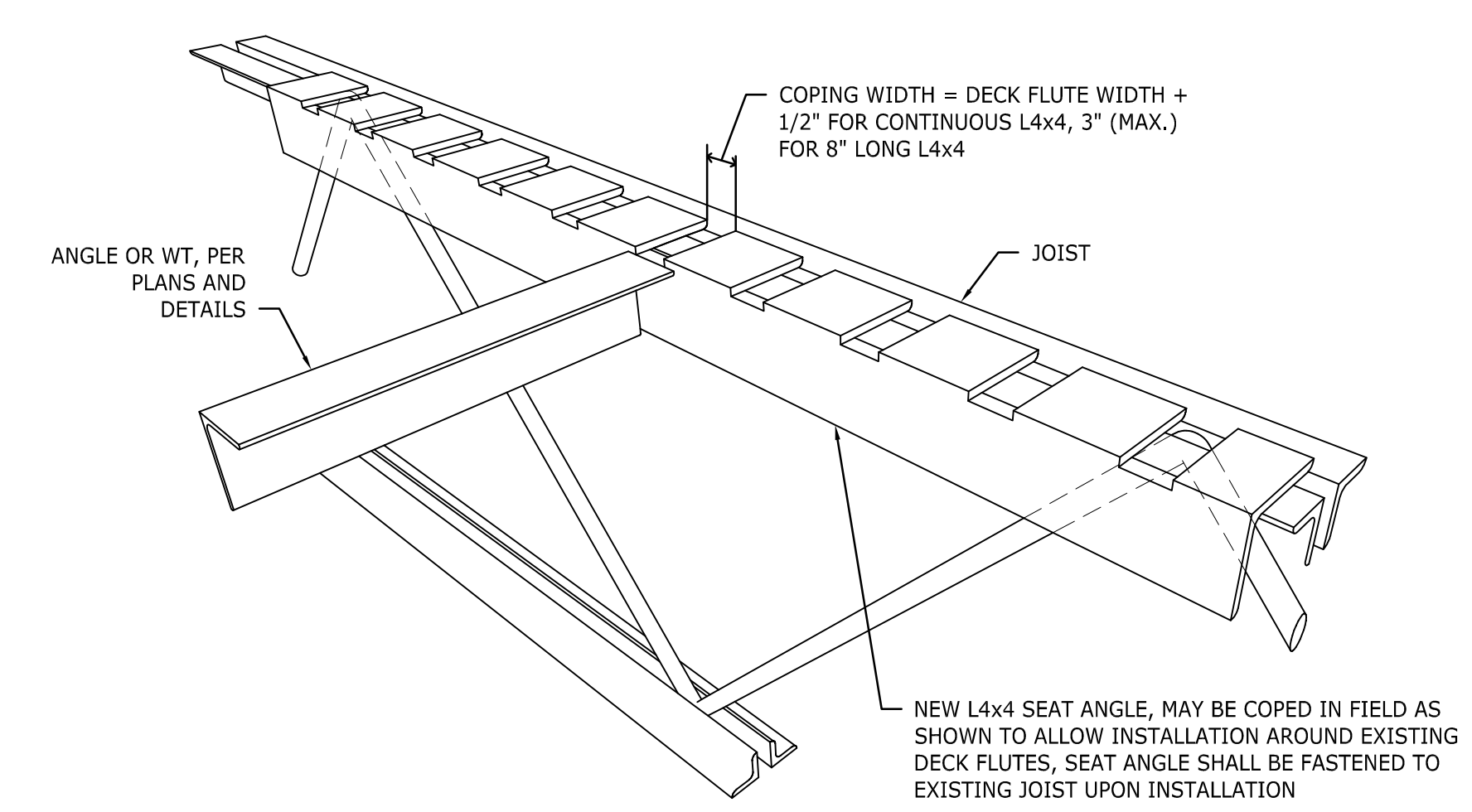
GENERAL NOTES:

- OPENINGS OUTSIDE THE LIMITS ABOVE SHALL BE FRAMED WITH STRUCTURAL STEEL. OPENING SIZES AND LOCATIONS TO BE SUBMITTED TO STRUCTURAL ENGINEER.
- PROVIDE SOLID P.T. BLOCKING WITHIN ROOF DECK RIBS UNDER ALL CURBS FOR ROOFTOP EQUIPMENT, SKYLIGHTS, HATCHES, ETC.



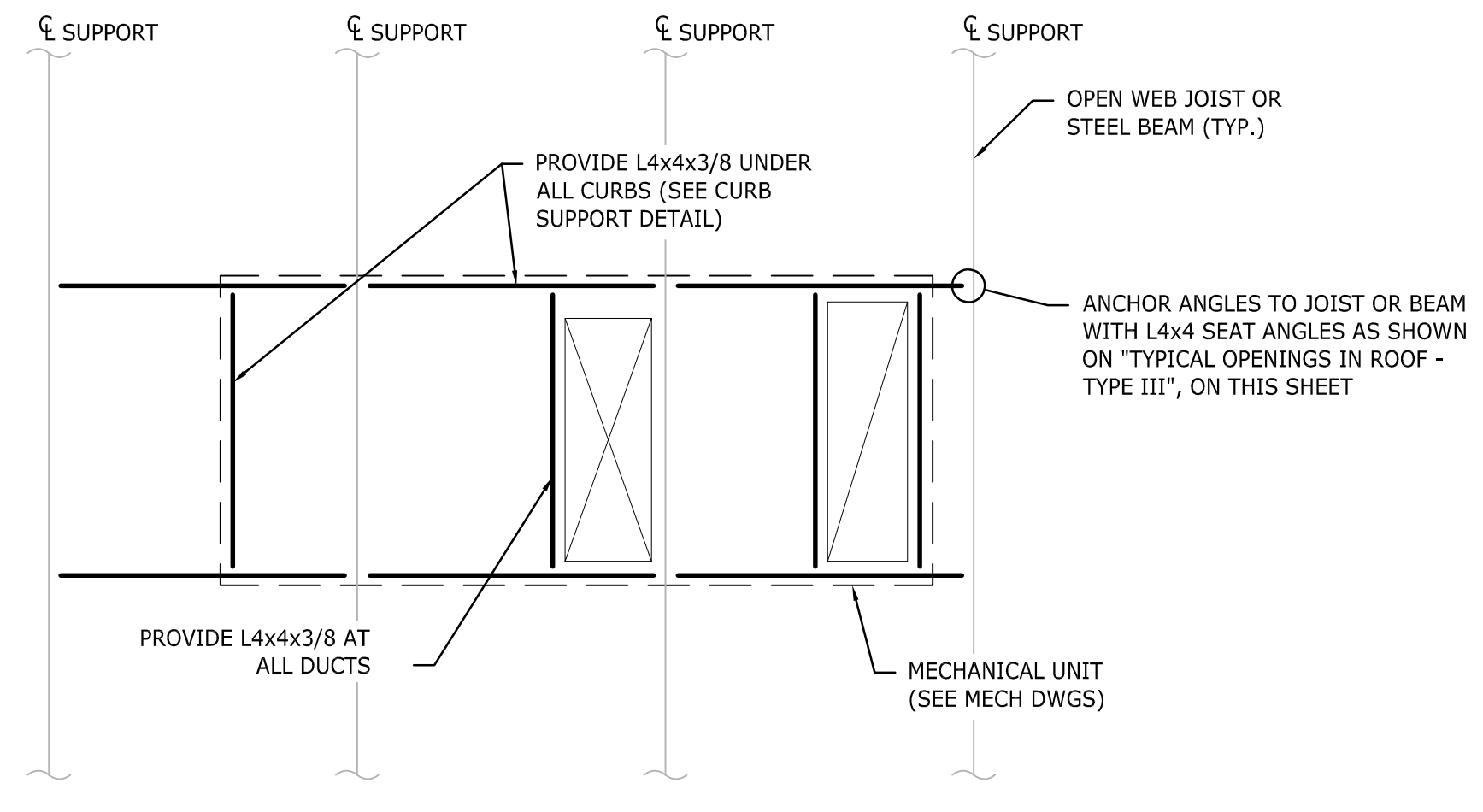
SEAT ANGLE AT BEAM DETAIL

NOT TO SCALE



SEAT ANGLE AT JOIST DETAIL

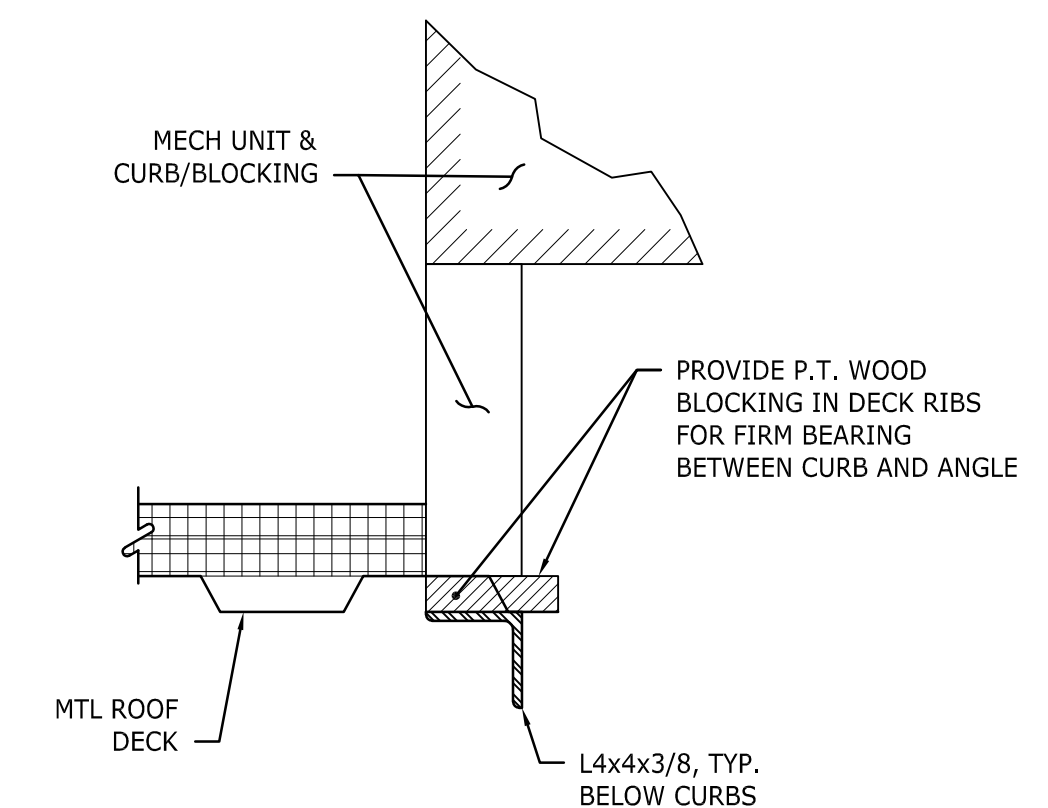
NOT TO SCALE



PLAN

MECHANICAL UNIT SUPPORT DETAILS

NOT TO SCALE



CURB SUPPORT DETAIL

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MICHAEL J. RONGIONE
No. 7437
REGISTERED PROFESSIONAL ENGINEER (STRUCTURAL)

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Drawn by: MS Proj. Mgr.: MR
Revisions
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STRUCTURAL NOTES AND DETAILS

\$1.00

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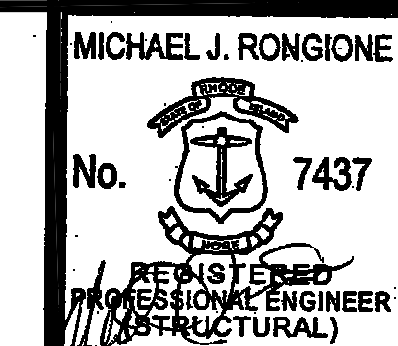
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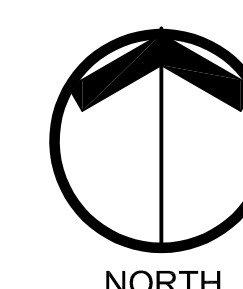
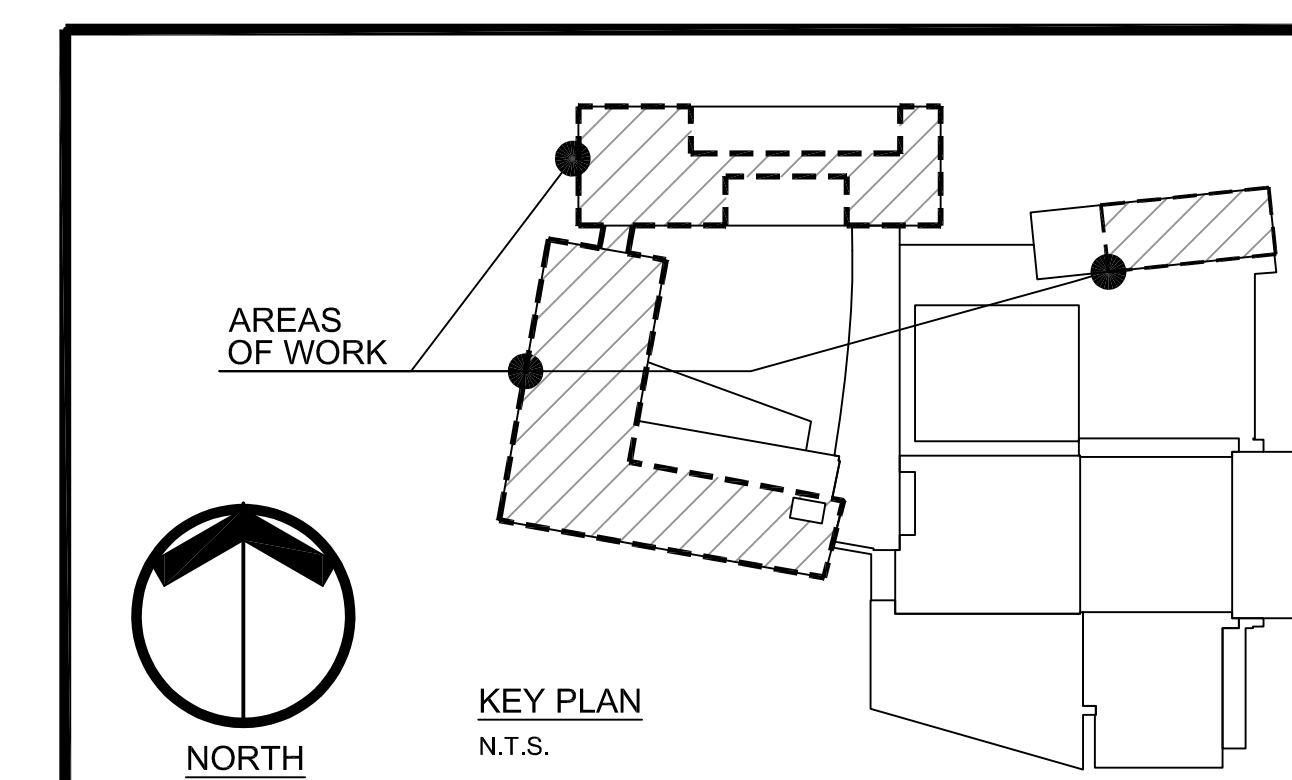
STRUCTURAL KEY PLAN

S2.00



ROOFTOP EQUIPMENT KEY PLAN

SCALE: 1"=20'



KEY PLAN
N.T.S.

**FIRST FLOOR
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A/C IMPROVEMENTS
AT
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150 Fairway Drive
North Kingstown, Rhode Island

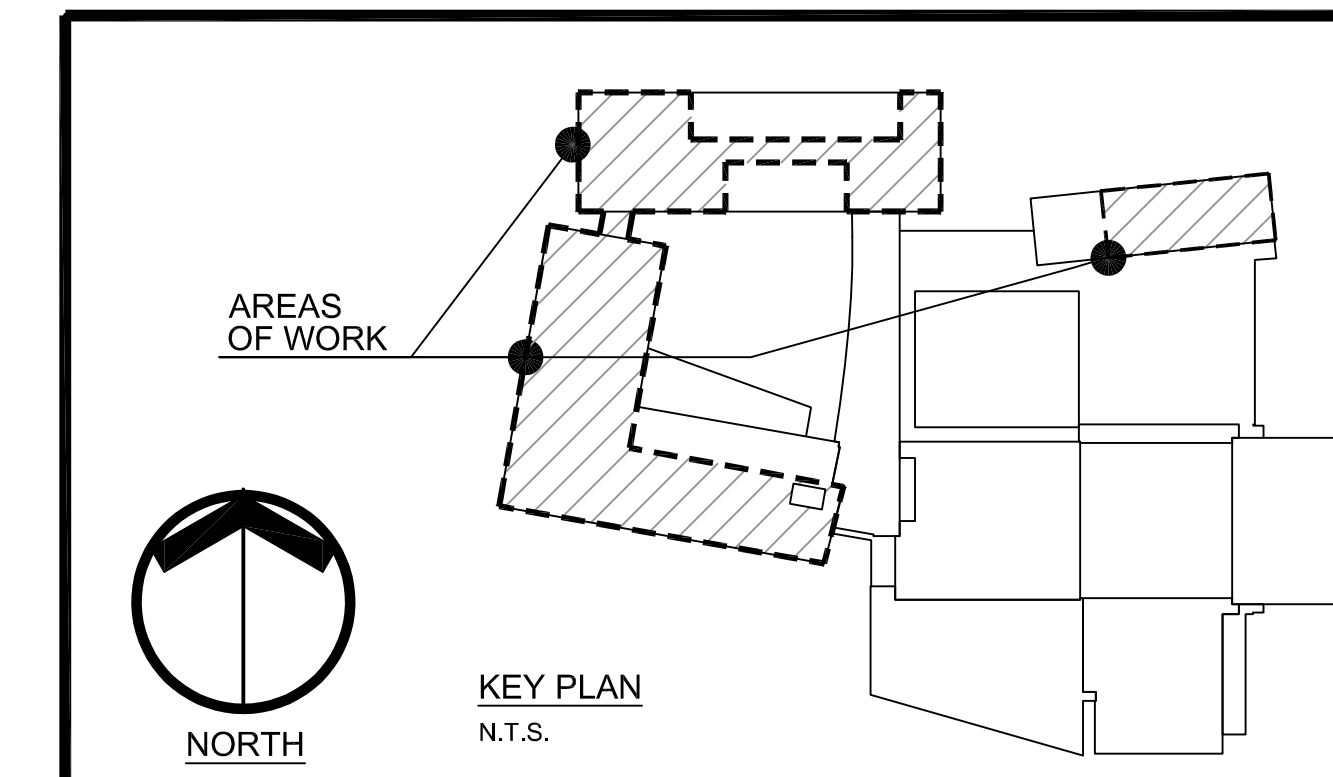
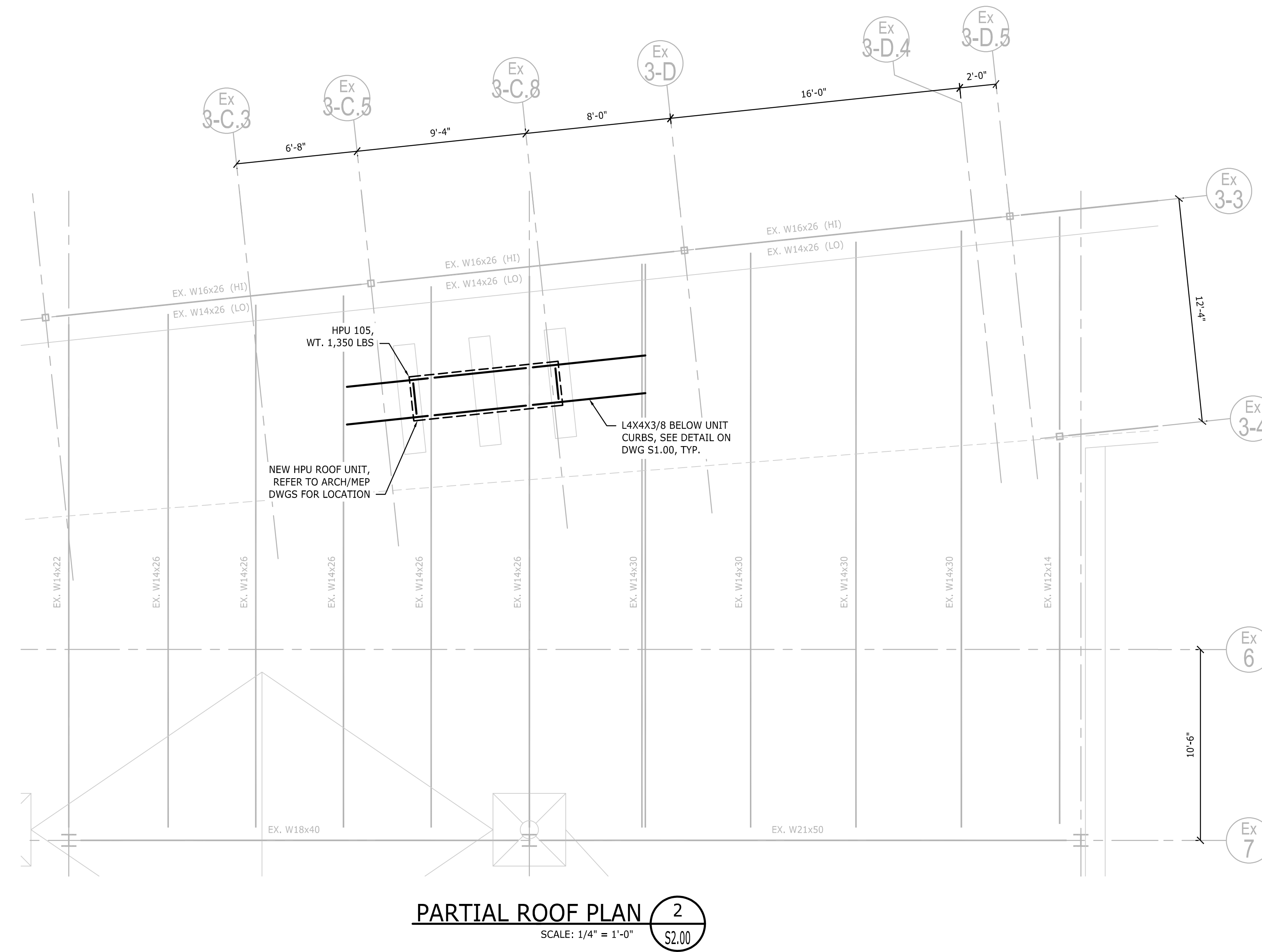
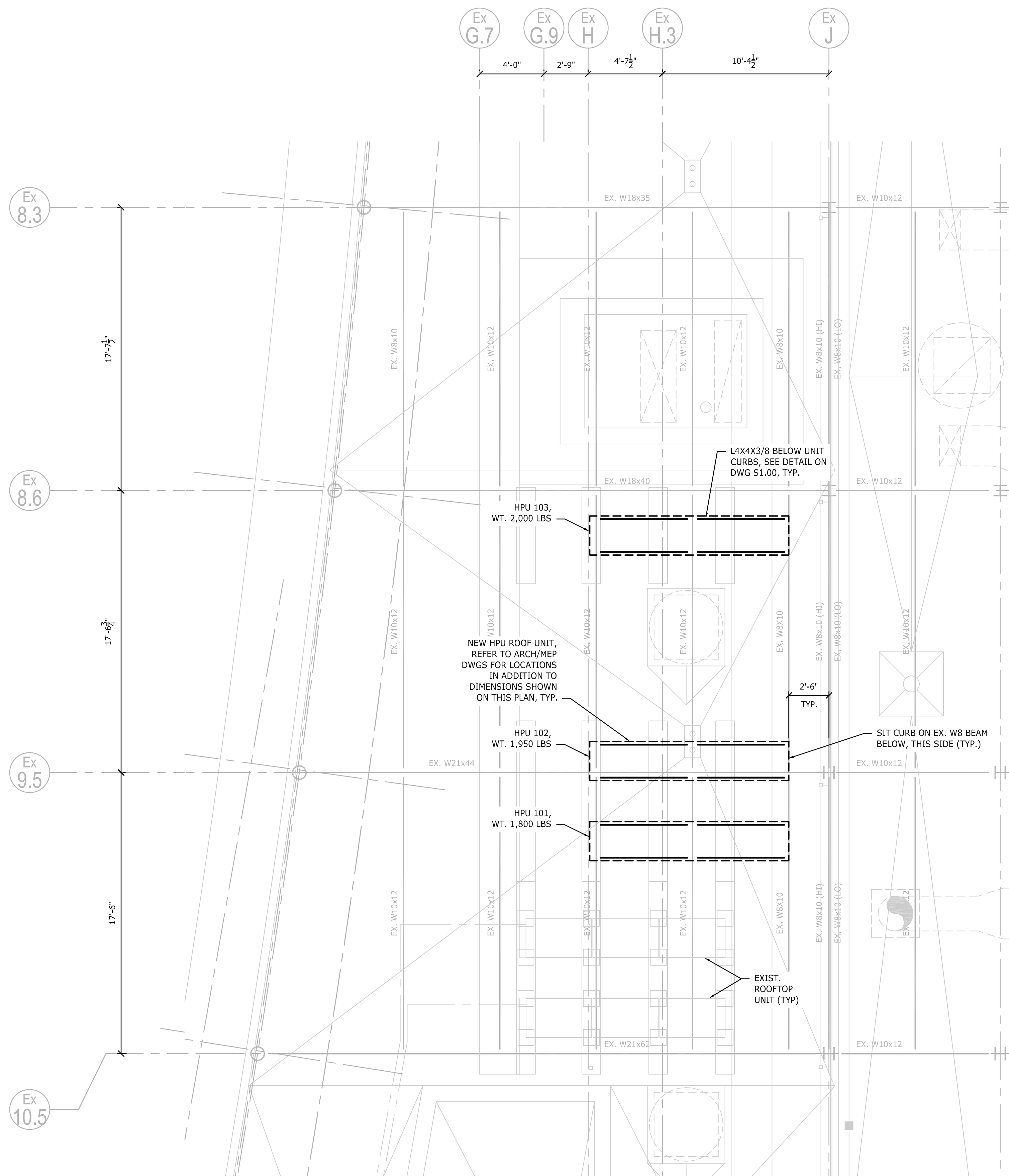
**Edward Rowse
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ROOF PARTIAL PLANS

S2.01

**FIRST FLOOR
CLASSROOM
A/C IMPROVEMENTS
AT
NORTH KINGSTOWN
HIGH SCHOOL**



150 Fairway Drive
North Kingstown, Rhode Island

**Edward Rowe
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Date: MARCH 4, 2022

Drawn by: DLE Proj. Mgr.: JHP

Revisions

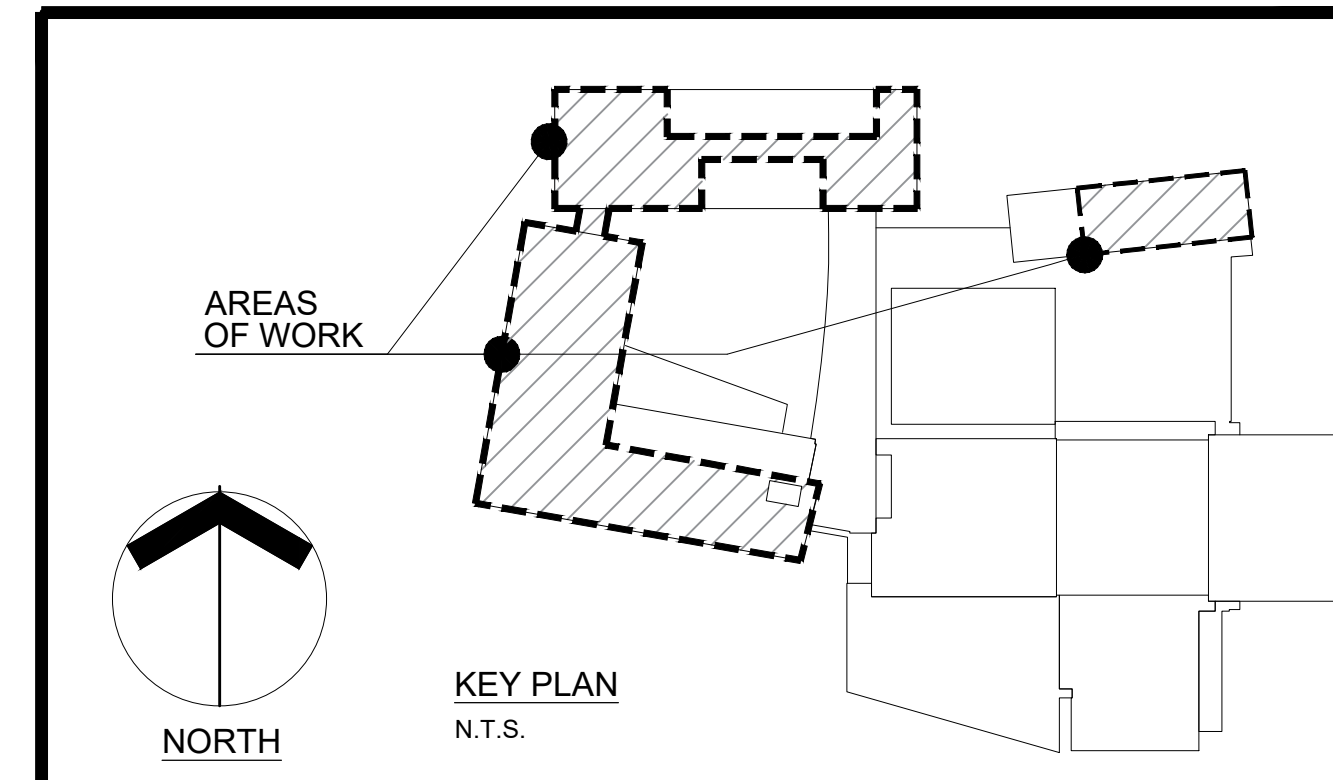
No.	Date	Description

**OVERALL
FIRST FLOOR PLAN**

A1.0



1 OVERALL FIRST FLOOR PLAN
SCALE: 1" = 20'-0"



**FIRST FLOOR
CLASSROOM
A/C IMPROVEMENTS
AT
NORTH KINGSTOWN
HIGH SCHOOL**



150 Fairway Drive
North Kingstown, Rhode Island

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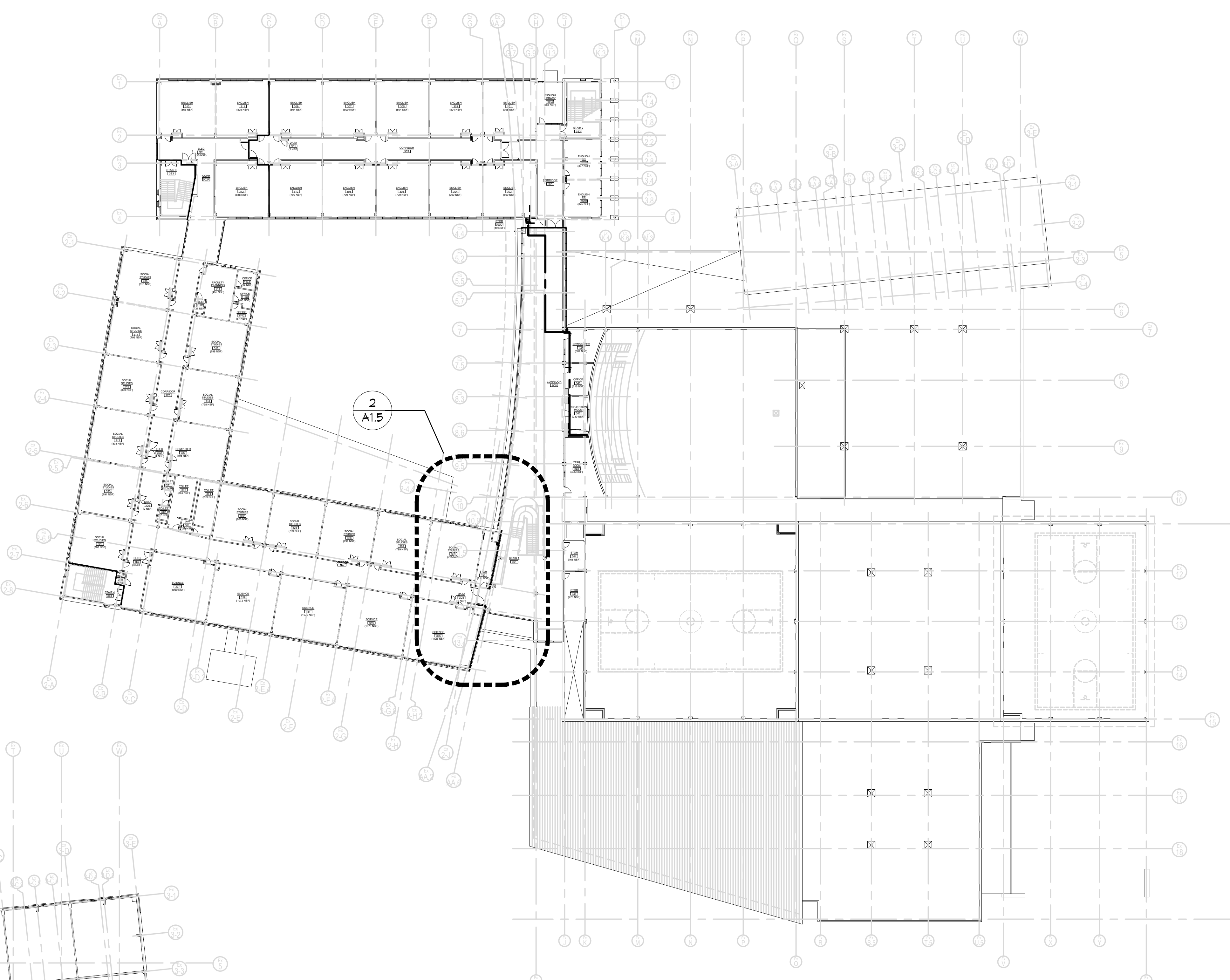
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Revisions

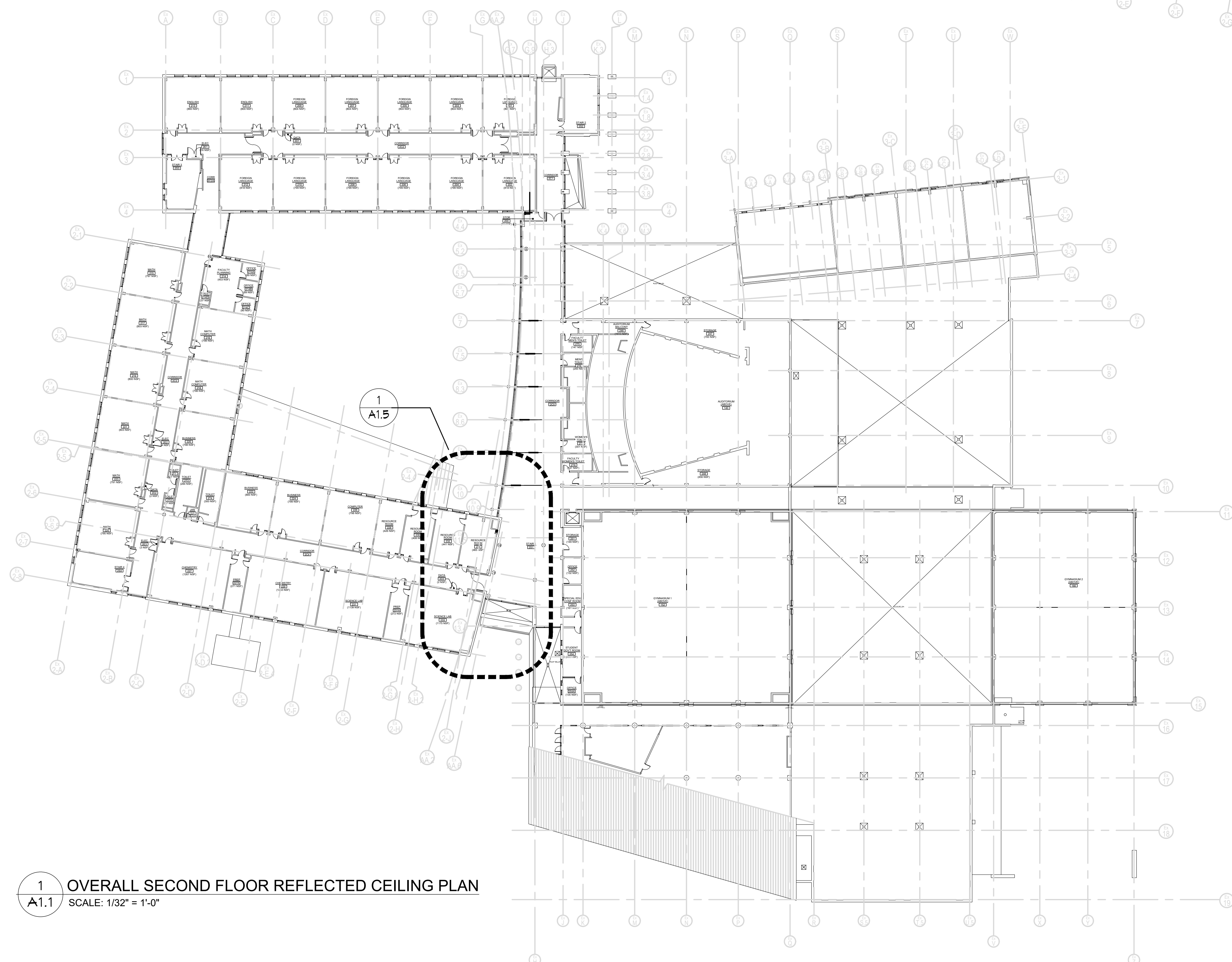
No.	Date	Description

**OVERALL
SECOND AND THIRD
FLOOR PLANS**

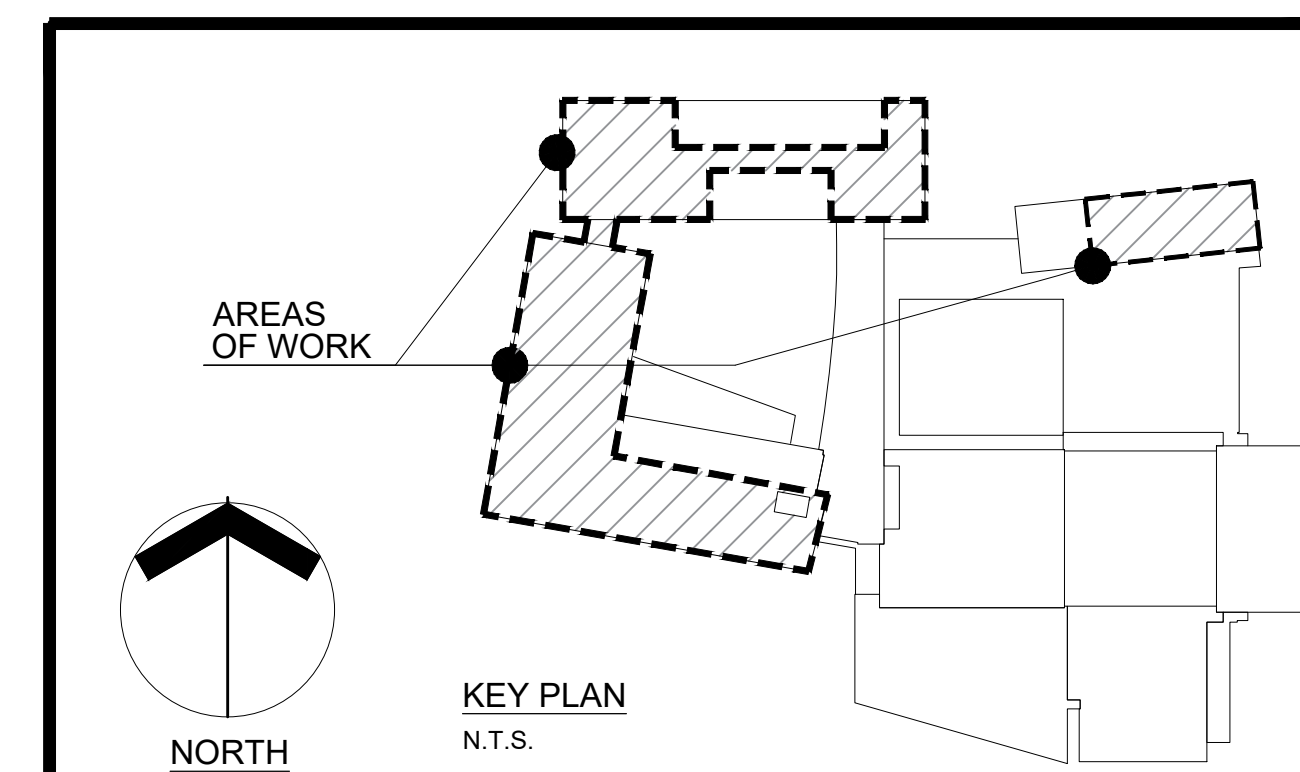
A1.1



2 OVERALL THIRD FLOOR REFLECTED CEILING PLAN
A1.1 SCALE: 1/32" = 1'-0"



1 OVERALL SECOND FLOOR REFLECTED CEILING PLAN
A1.1 SCALE: 1/32" = 1'-0"



KEY PLAN
N.T.S.

**FIRST FLOOR
CLASSROOM
A/C IMPROVEMENTS
AT
NORTH KINGSTOWN
HIGH SCHOOL**



150 Fairway Drive
North Kingstown, Rhode Island

**Edward Rowse
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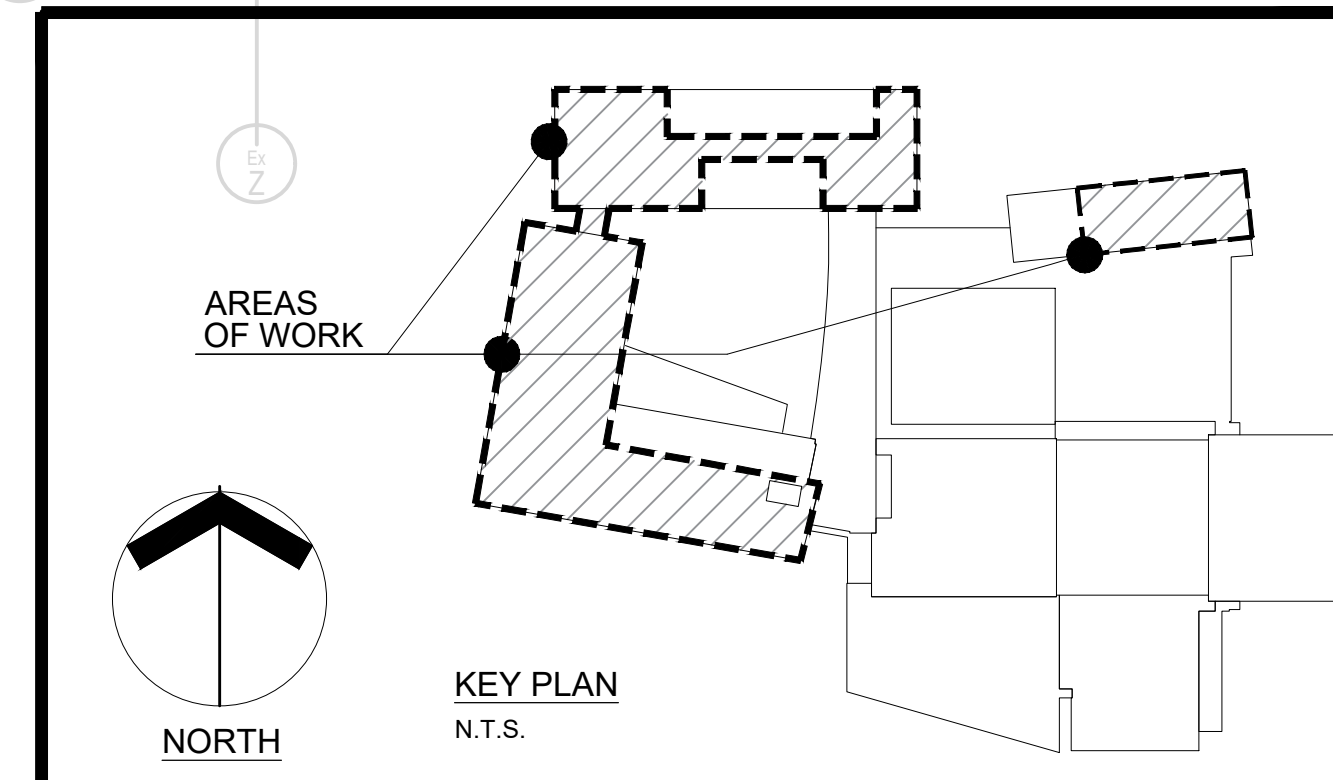
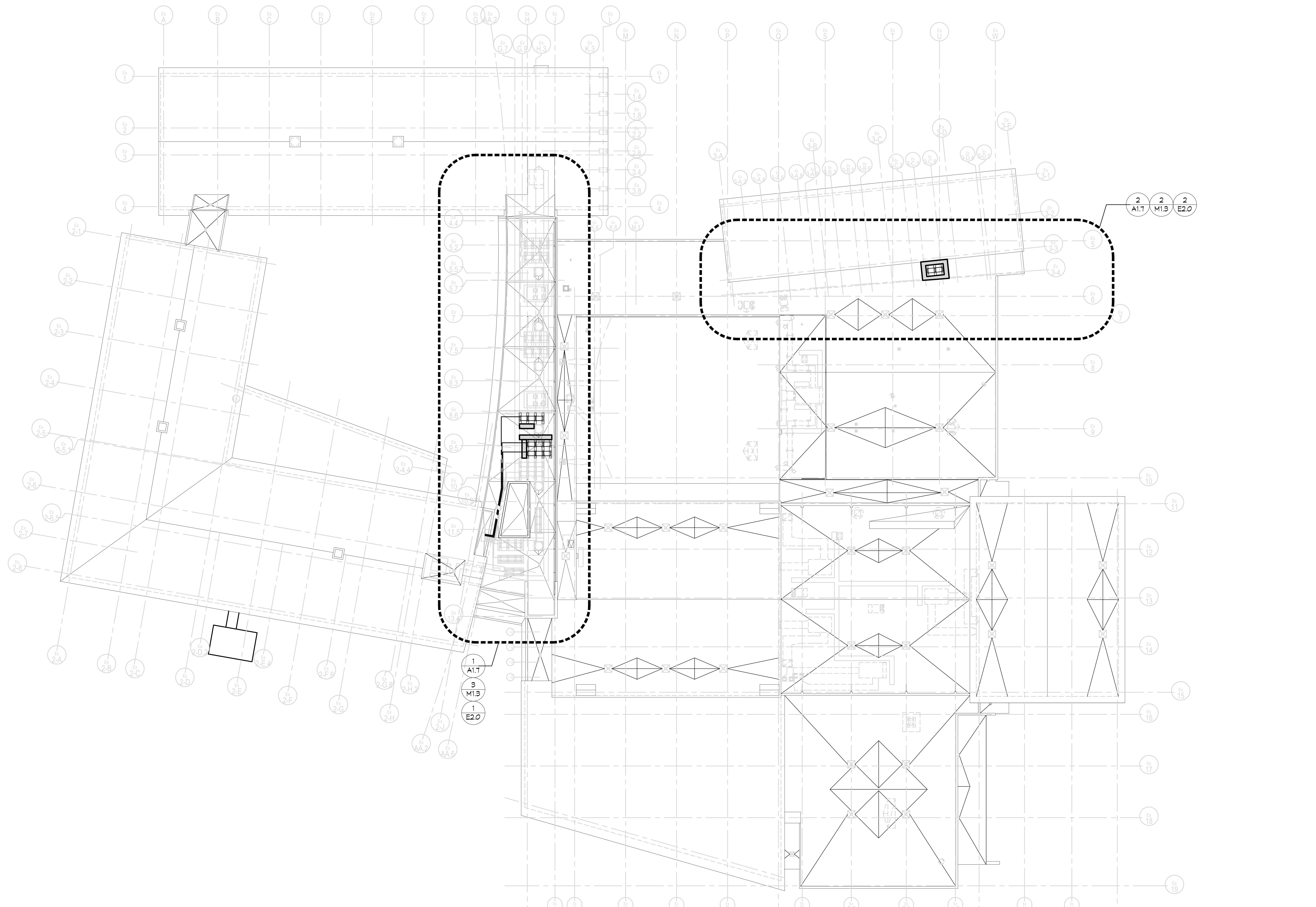


Date: MARCH 4, 2022

Drawn by: DLE Proj. Mgr.: JMF

Revisions

No.	Date	Description



1 OVERALL ROOF PLAN
A1.2 SCALE: 1" = 20'-0"

**OVERALL
ROOF PLAN**

A1.2

**FIRST FLOOR
CLASSROOM
A/C IMPROVEMENTS
AT
NORTH KINGSTOWN
HIGH SCHOOL**



150 Fairway Drive
North Kingstown, Rhode Island

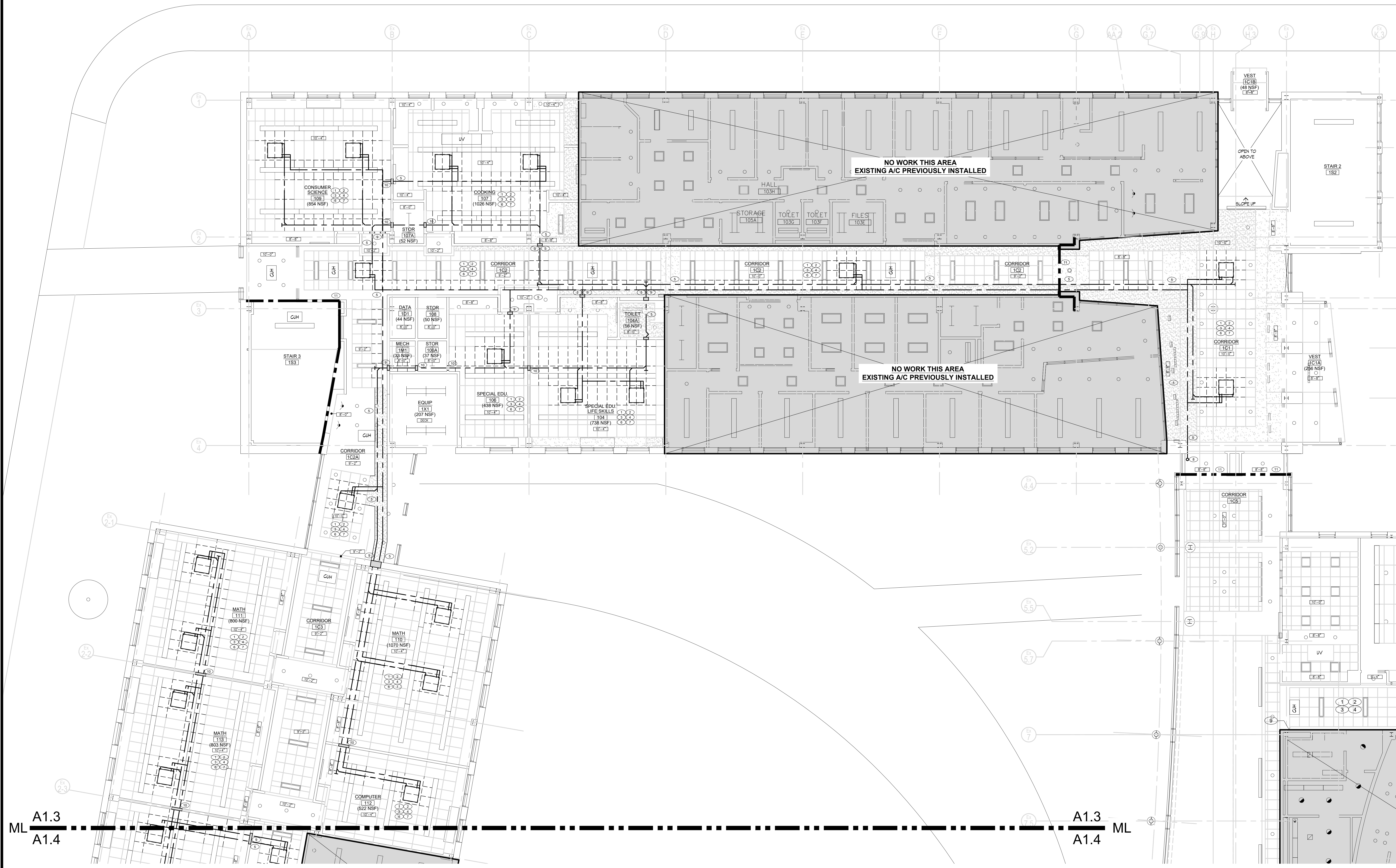
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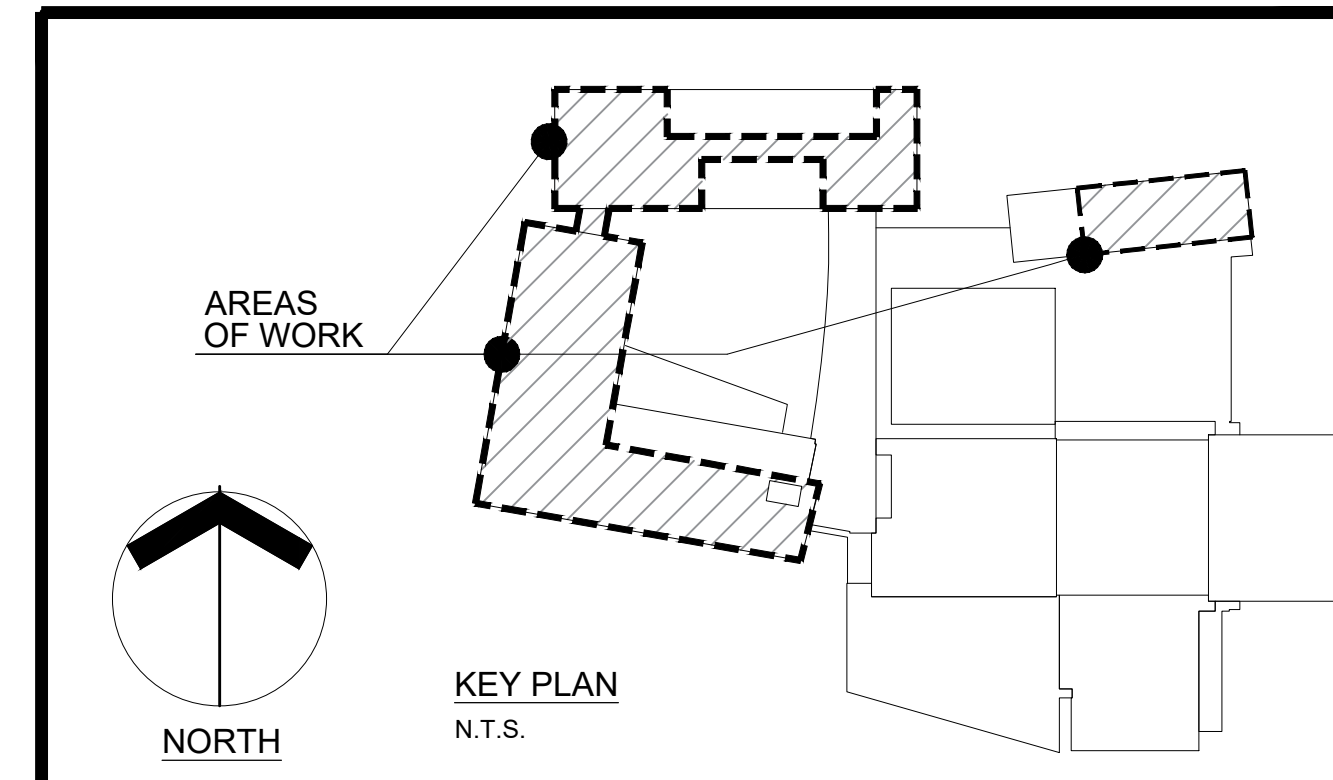


A1.3
A1.4 ML

1 PARTIAL LARGE SCALE FIRST FLOOR REFLECTED CEILING PLAN
A1.3 SCALE: 1/8" = 1'-0"

CEILING LEGEND

2x2	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 BOARD CEILING/SOFFITS - REFER TO CONSTRUCTION NOTE NO 5	AHU	CEILING AIR HANDLING REGISTER - SEE MECHANICAL DRAWINGS
2x4	EXISTING ACOUSTICAL CEILING TILE ASSEMBLY - NO WORK	EXISTING PENDANT MOUNTED DIRECT/INDIRECT LIGHT FIXTURE	---	REFRIGERANT PIPING - SEE MECHANICAL DRAWINGS
2x2		EXISTING FULLY RECESSED LIGHT FIXTURE	#	ELECTRICAL WIRING - SEE ELECTRICAL DRAWINGS
2x4		MATCH LINE	X-XX"	SPECIFIC DEMOLITION / CONSTRUCTION NOTE
				EXISTING CEILING HEIGHT



Date: MARCH 4, 2022
Drawn by: DLE Proj. Mgr.: JHP
Revisions

No.	Date	Description

**PARTIAL LARGE SCALE
FIRST FLOOR
REFLECTED CEILING PLAN**

A1.3

**FIRST FLOOR
CLASSROOM
A/C IMPROVEMENTS
AT
NORTH KINGSTOWN
HIGH SCHOOL**



150 Fairway Drive
North Kingstown, Rhode Island

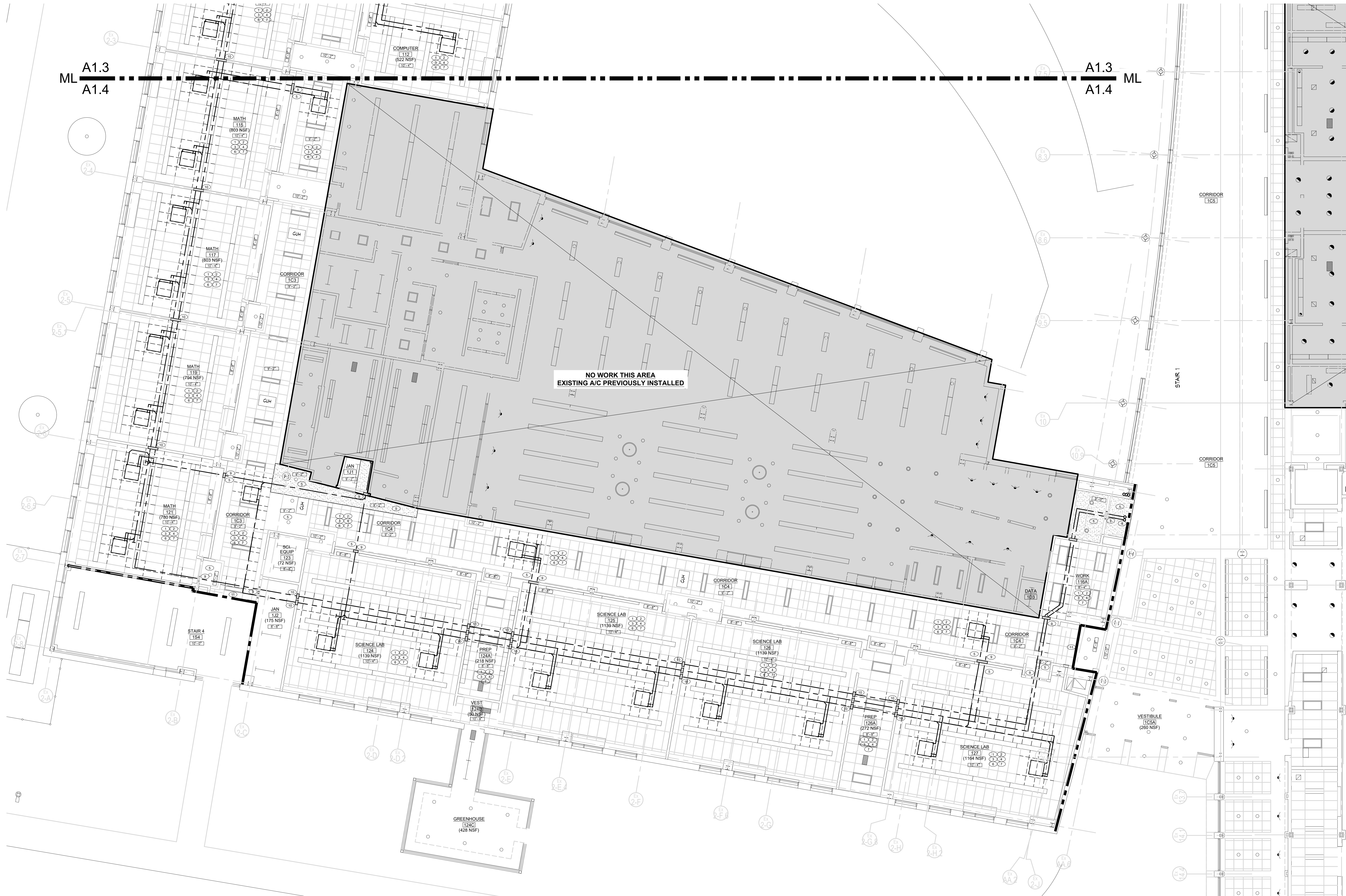
**Edward Rowse
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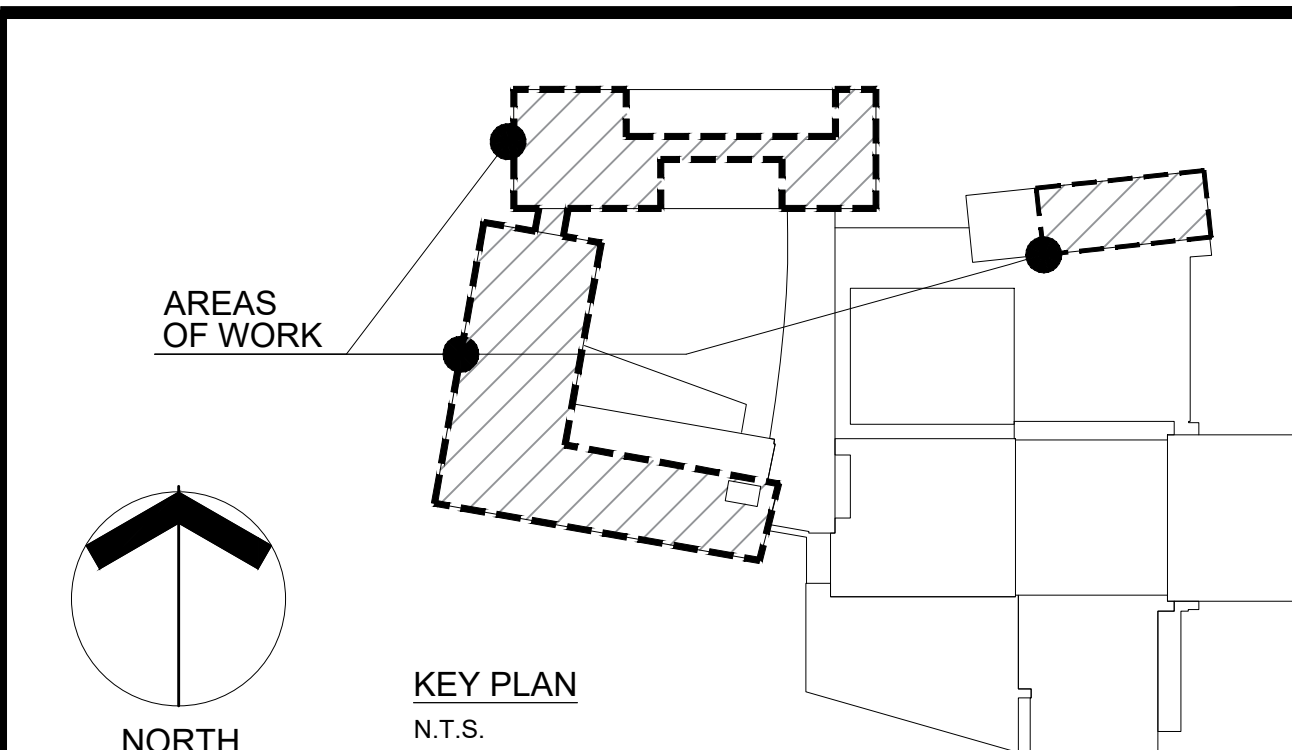


NO WORK THIS AREA
EXISTING A/C PREVIOUSLY INSTALLED

1 PARTIAL LARGE SCALE FIRST FLOOR REFLECTED CEILING PLAN
A1.4 SCALE: 1/8" = 1'-0"

CEILING LEGEND

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2x4	EXISTING ACOUSTICAL CEILING TILE ASSEMBLY - NO WORK	MATCH LINE	#	SPECIFIC DEMOLITION / CONSTRUCTION NOTE
			X-XX"	EXISTING CEILING HEIGHT



Date: MARCH 4, 2022
Drawn by: DLE Proj. Mgr.: JMF

Revisions	No.	Date	Description

**PARTIAL LARGE SCALE
FIRST FLOOR
REFLECTED CEILING PLAN**

A1.4

**FIRST FLOOR
CLASSROOM
A/C IMPROVEMENTS
AT
NORTH KINGSTOWN
HIGH SCHOOL**



150 Fairway Drive
North Kingstown, Rhode Island

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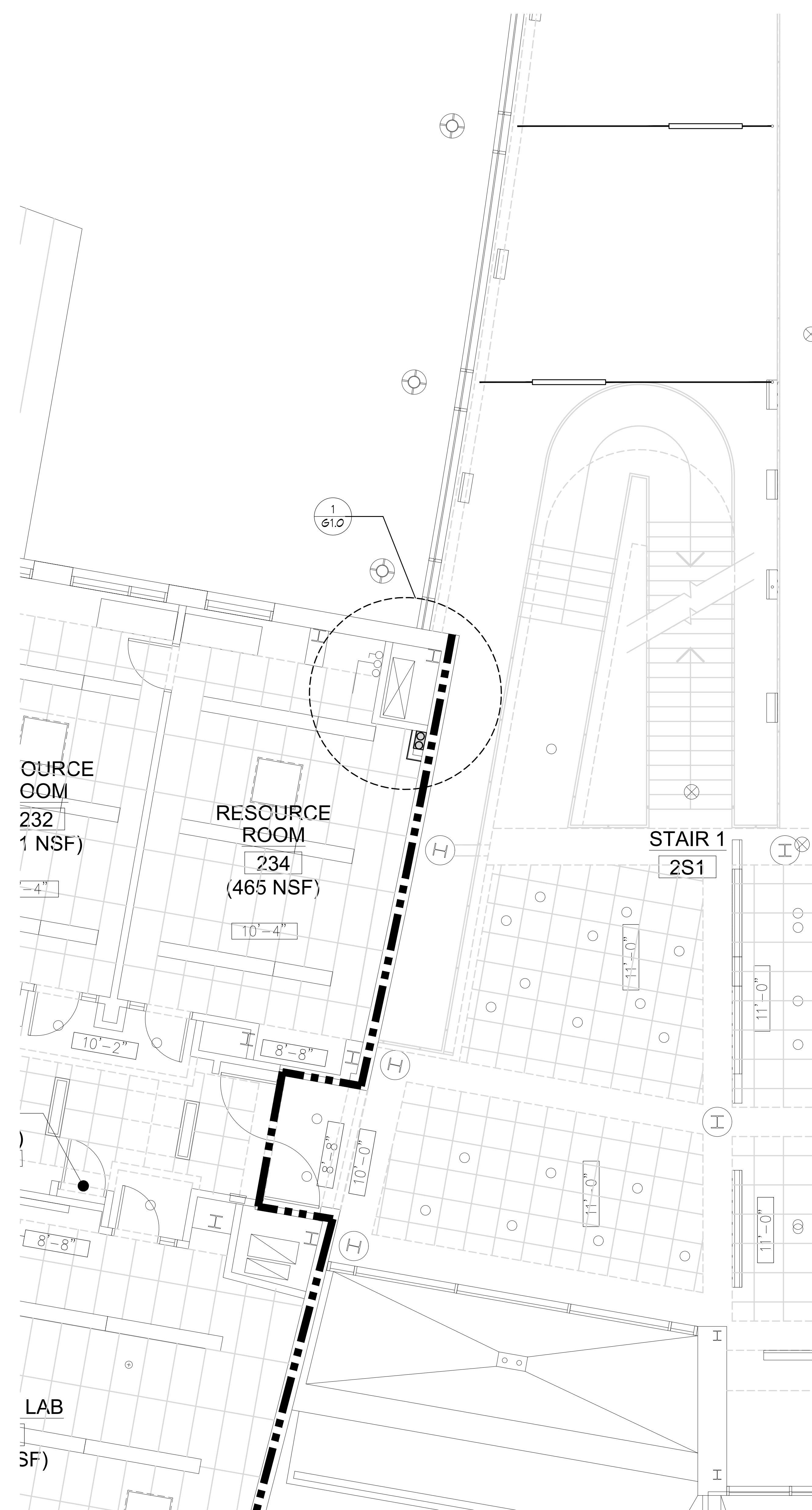
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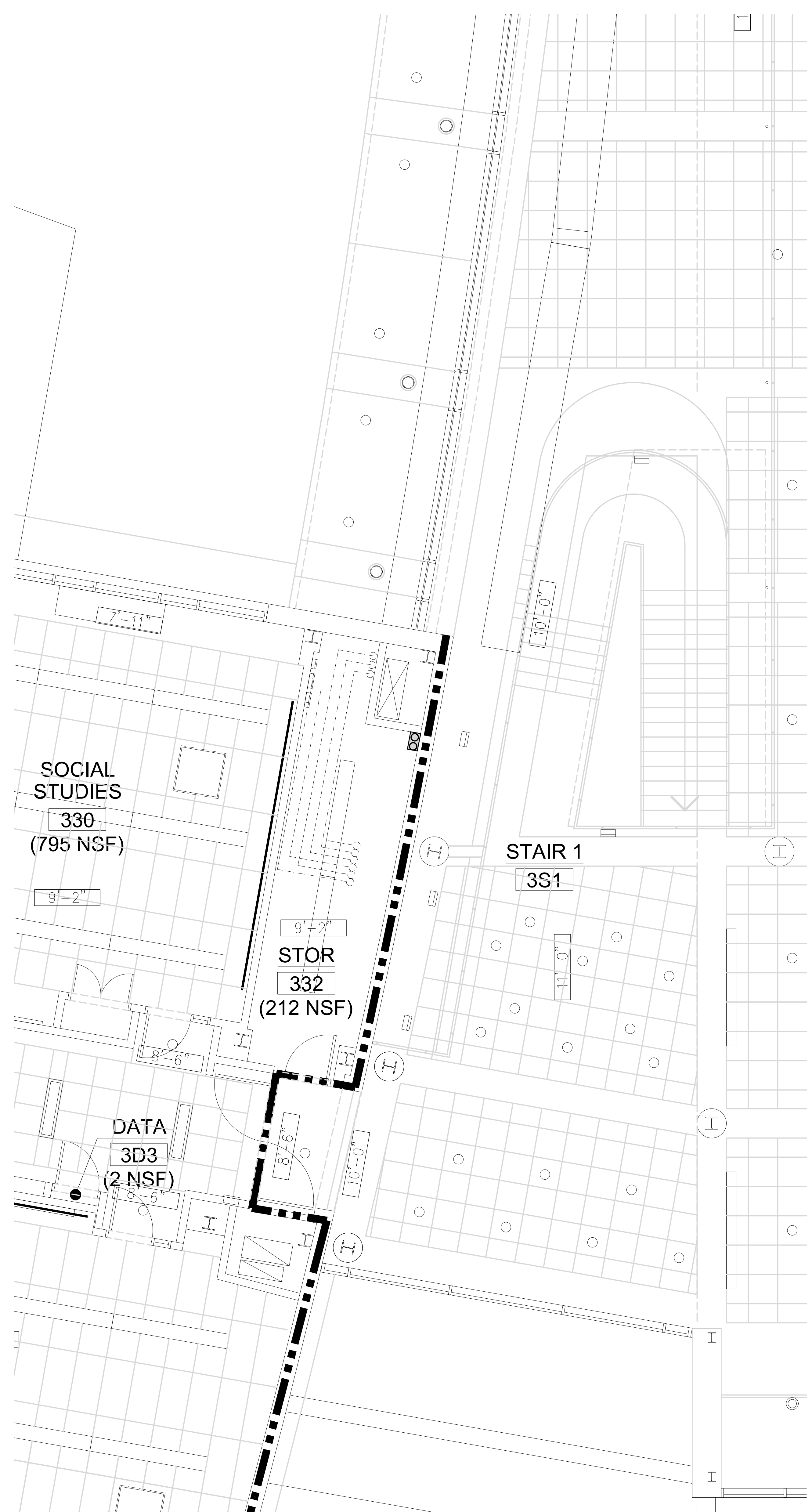
No.	Date	Description

**PARTIAL
SECOND AND THRD
REFLECTED CEILING PLANS**

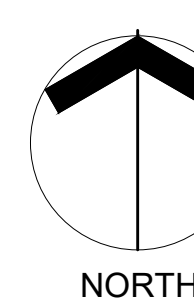
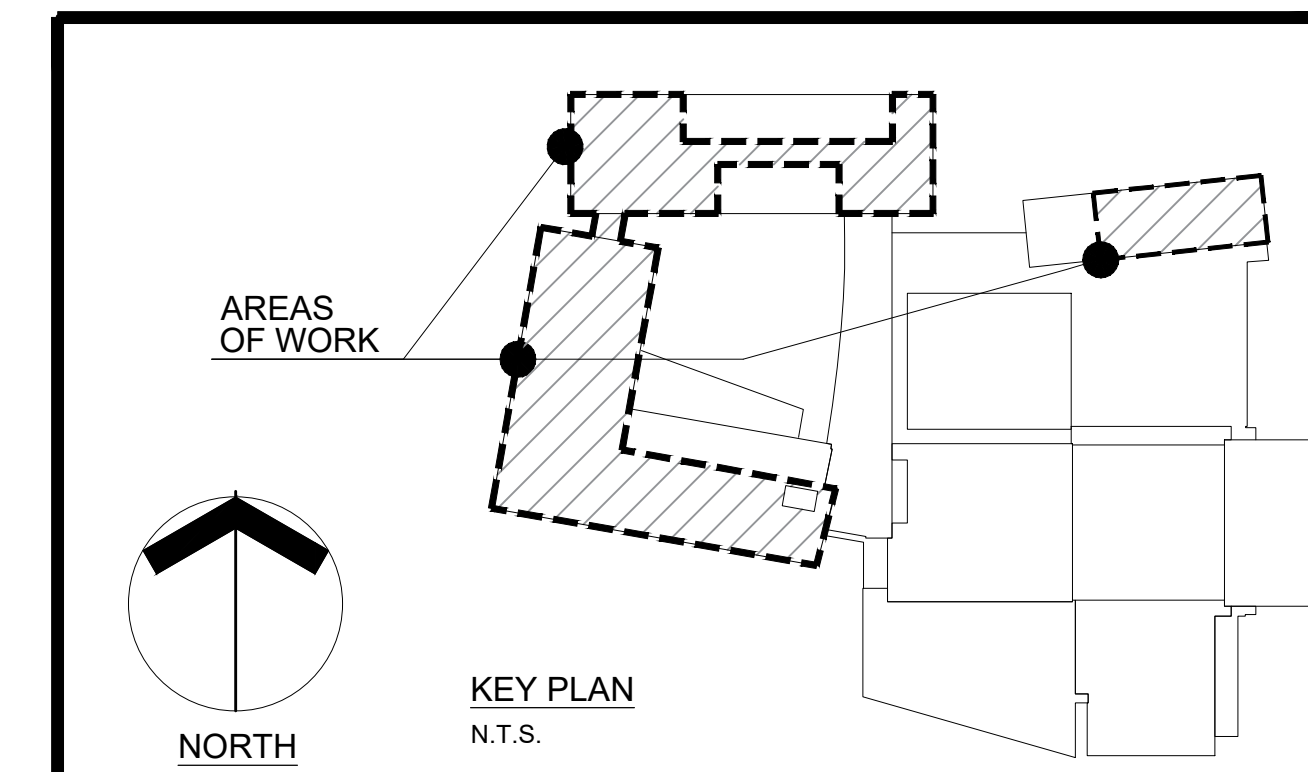
A1.5



1 PARTIAL SECOND FLOOR REFELCTED CEILING PLAN
A1.5 SCALE: 1/4" = 1'-0"



2 PARTIAL THIRD FLOOR REFECTED CEILING PLAN
A1.5 SCALE: 1/4" = 1'-0"



KEY PLAN
N.T.S.

**FIRST FLOOR
CLASSROOM
A/C IMPROVEMENTS
AT
NORTH KINGSTOWN
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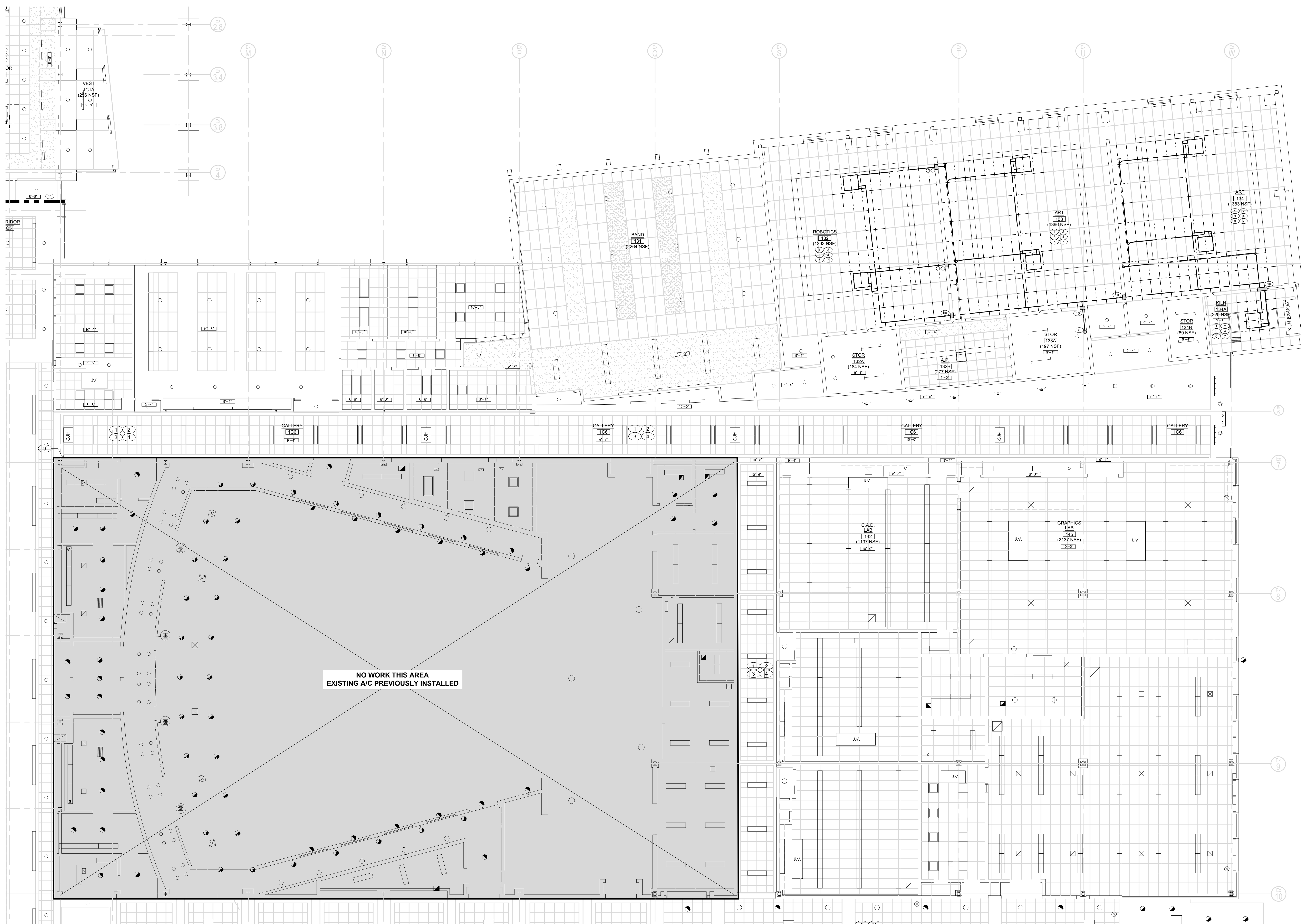


Date: MARCH 4, 2022
Drawn by: DLE Proj. Mgr.: JHP
Revisions

No.	Date	Description

**PARTIAL LARGE SCALE
FIRST FLOOR
REFLECTED CEILING PLAN**

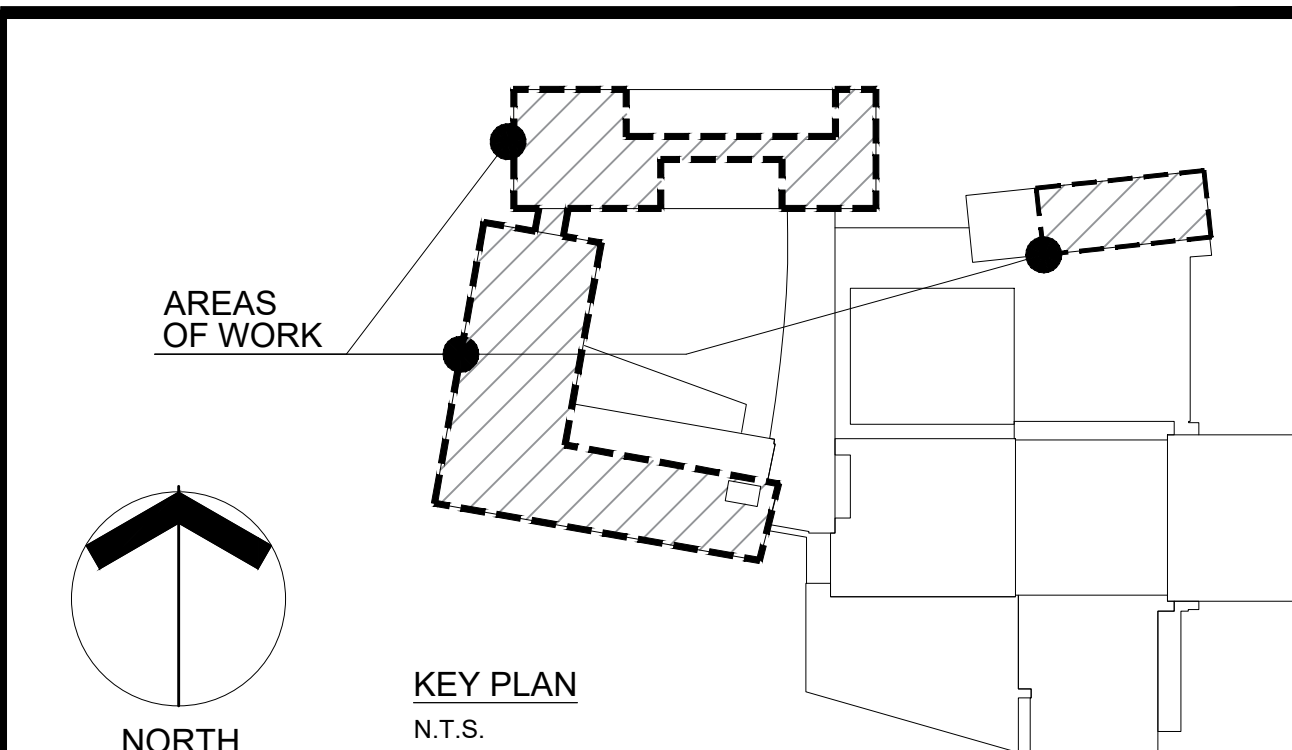
A1.6



NO WORK THIS AREA
EXISTING A/C PREVIOUSLY INSTALLED

CEILING LEGEND

2x2	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 BOARD CEILING/SOFFITS - REFER TO CONSTRUCTION NOTE NO 5	AHU	CEILING AIR HANDLING REGISTER - SEE MECHANICAL DRAWINGS
2x4	EXISTING ACOUSTICAL CEILING TILE ASSEMBLY - NO WORK	EXISTING PENDANT MOUNTED DIRECT/INDIRECT LIGHT FIXTURE	---	REFRIGERANT PIPING - SEE MECHANICAL DRAWINGS
2x2	EXISTING ACOUSTICAL CEILING TILE ASSEMBLY - NO WORK	EXISTING FULLY RECESSED LIGHT FIXTURE	#	ELECTRICAL WIRING - SEE ELECTRICAL DRAWINGS
2x4	EXISTING ACOUSTICAL CEILING TILE ASSEMBLY - NO WORK	MATCH LINE	X-XX	SPECIFIC DEMOLITION / CONSTRUCTION NOTE
				EXISTING CEILING HEIGHT



1 PARTIAL LARGE SCALE FIRST FLOOR REFLECTED CEILING PLAN
A1.6
SCALE: 1/8" = 1'-0"

FIRST FLOOR CLASSROOM A/C IMPROVEMENTS AT NORTH KINGSTOWN HIGH SCHOOL



150 Fairway Drive
North Kingstown, Rhode Island

Edward Rowse ARCHITECTS

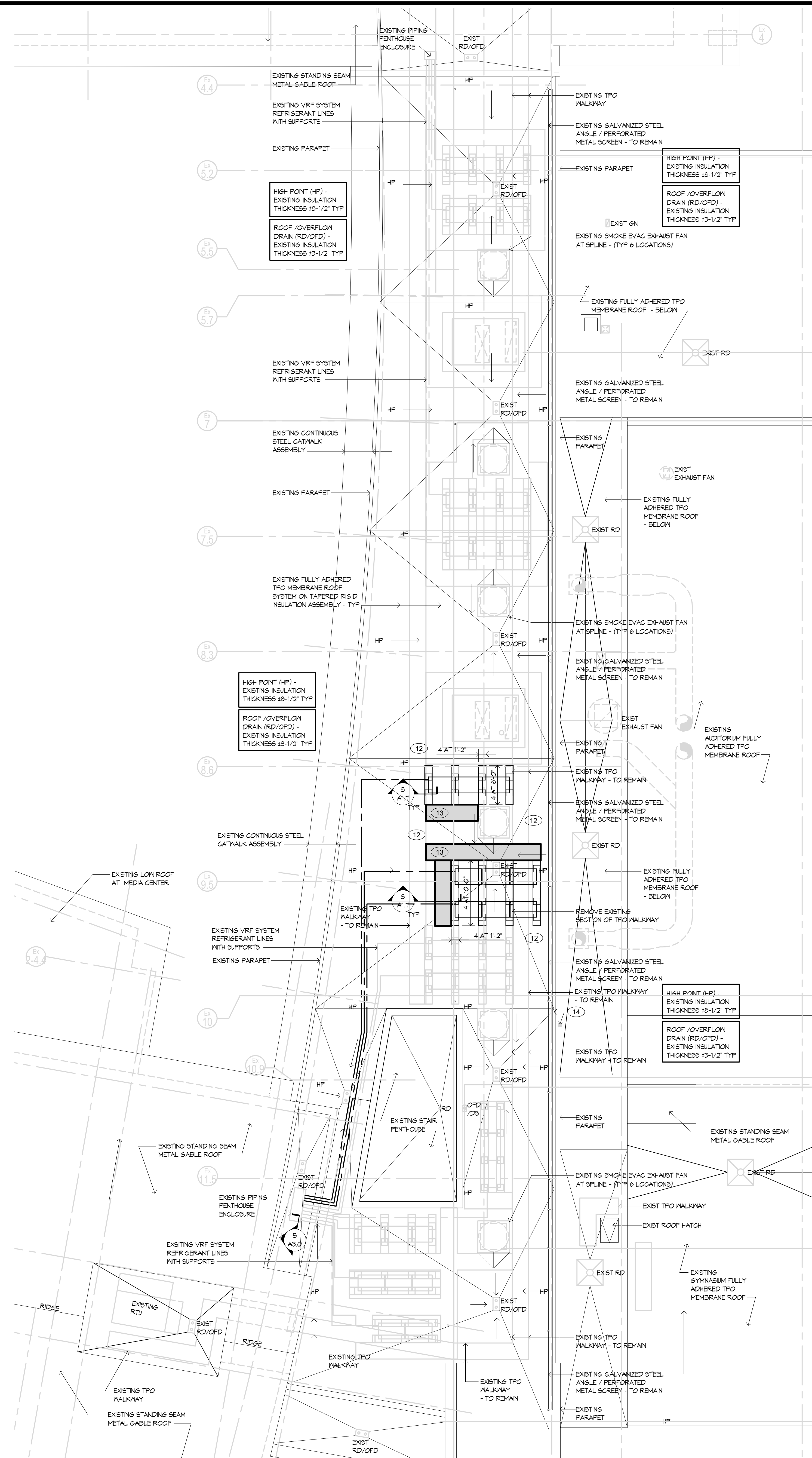
400 Massachusetts Avenue Suite 300, Second Floor East Providence, Rhode Island p. (401) 331-9000 f. (401) 331-9270 e-mail: rowse@rowsearch.com

211 Main Street Suite 106, First Floor Foxboro, Massachusetts p. (774) 215-0000 f. (774) 215-0007

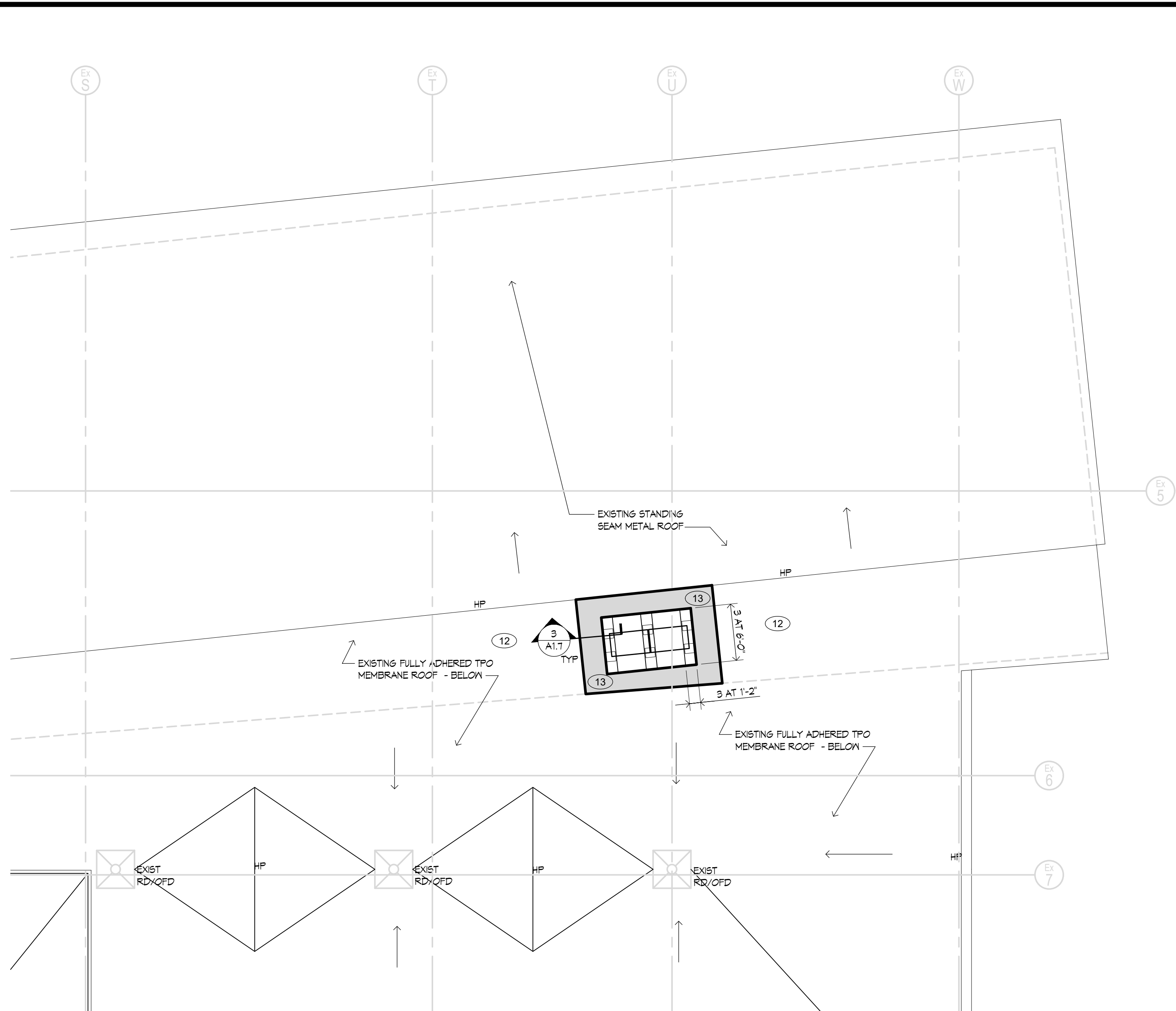
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GENERAL NOTES

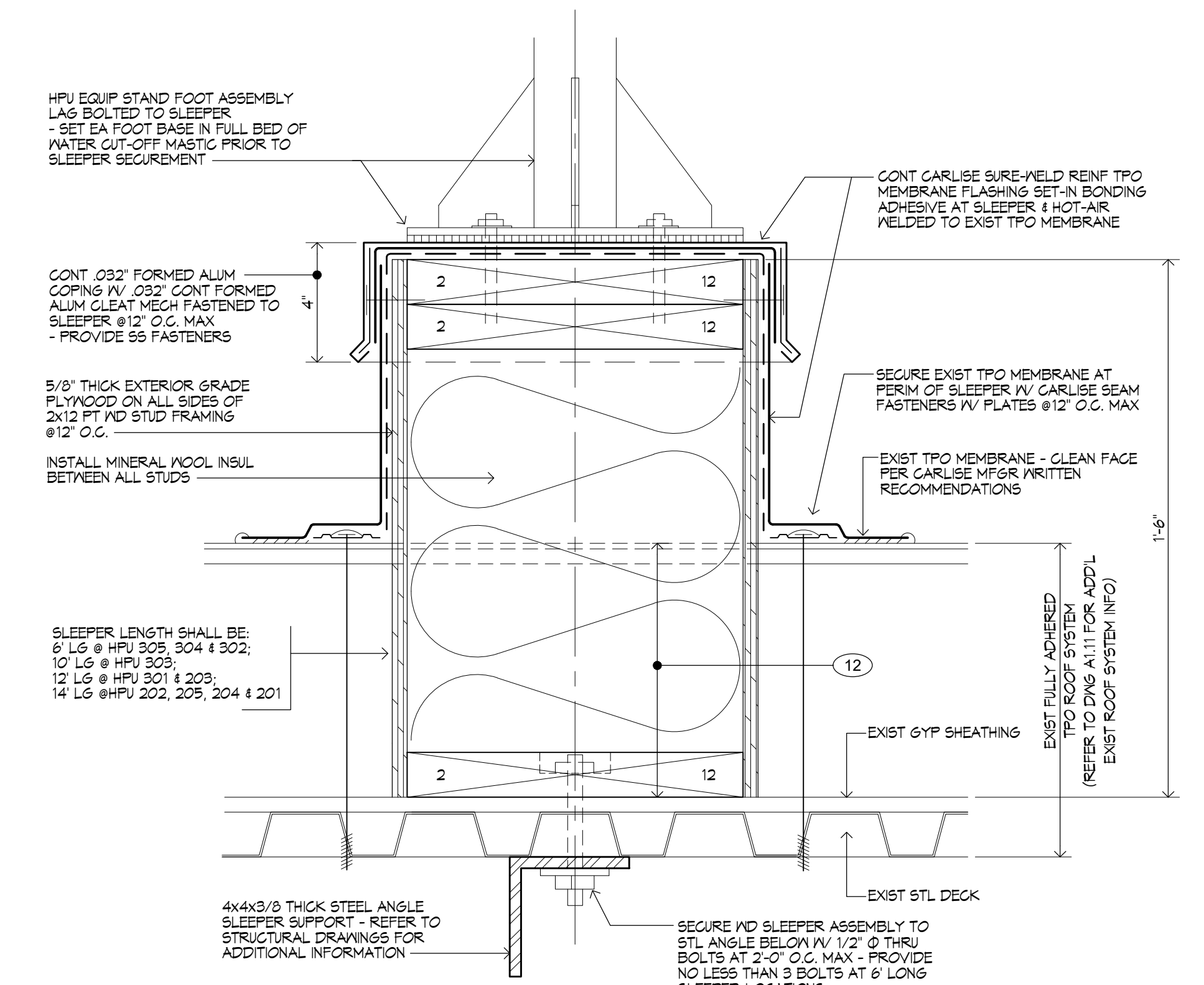
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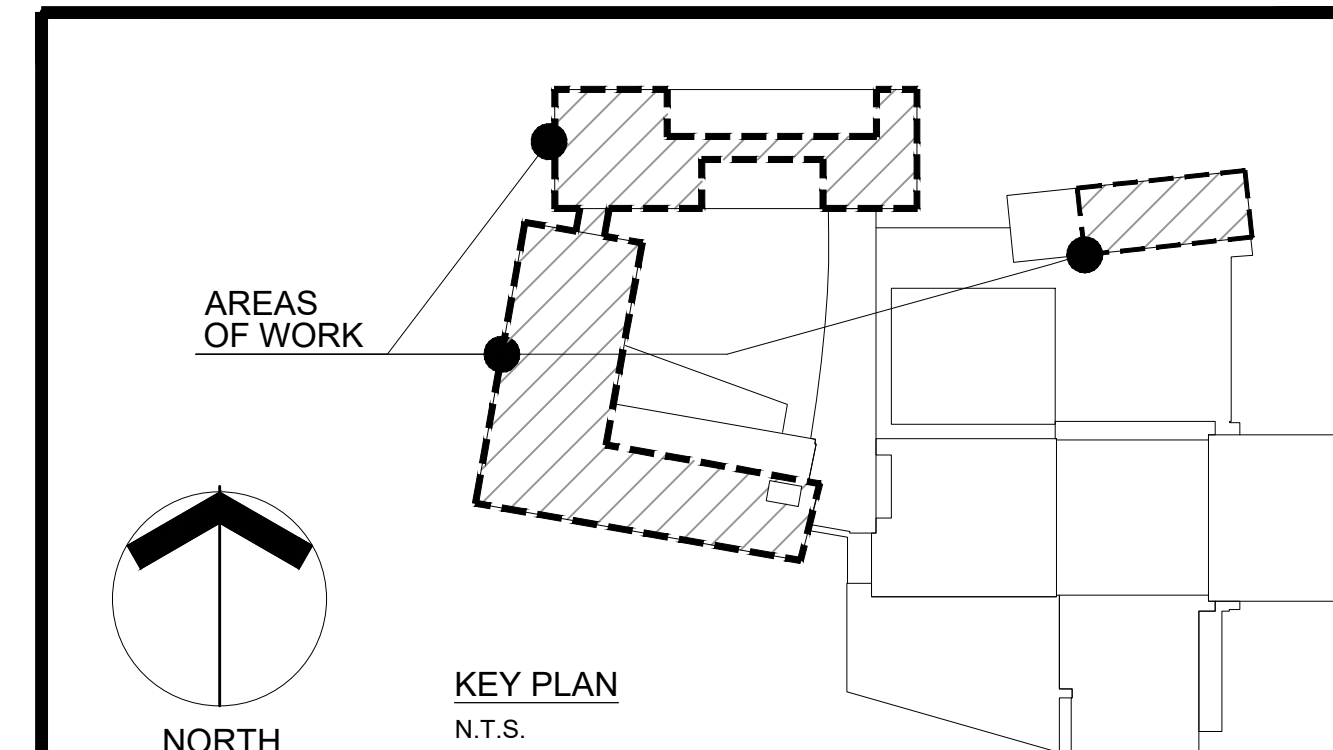
1 PARTIAL ROOF PLAN AT SPLINE
A1.7 SCALE: 1/8" = 1'-0"



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



3 SLEEPER DETAIL
A1.7 3" = 1'-0"



Date: MARCH 4, 2022
Drawn by: DLE Proj. Mgr.: JHP

No.	Date	Description

PARTIAL ROOF PLANS

A1.7

**FIRST FLOOR
CLASSROOM
A/C IMPROVEMENTS
AT
NORTH KINGSTOWN
HIGH SCHOOL**



150 Fairway Drive
North Kingstown, Rhode Island

**Edward Rowe
ARCHITECTS**

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B | E | R

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GENERAL NOTES

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STEVEN A. KARAN

No. 6537

REGISTERED
PROFESSIONAL ENGINEER
(MECHANICAL)

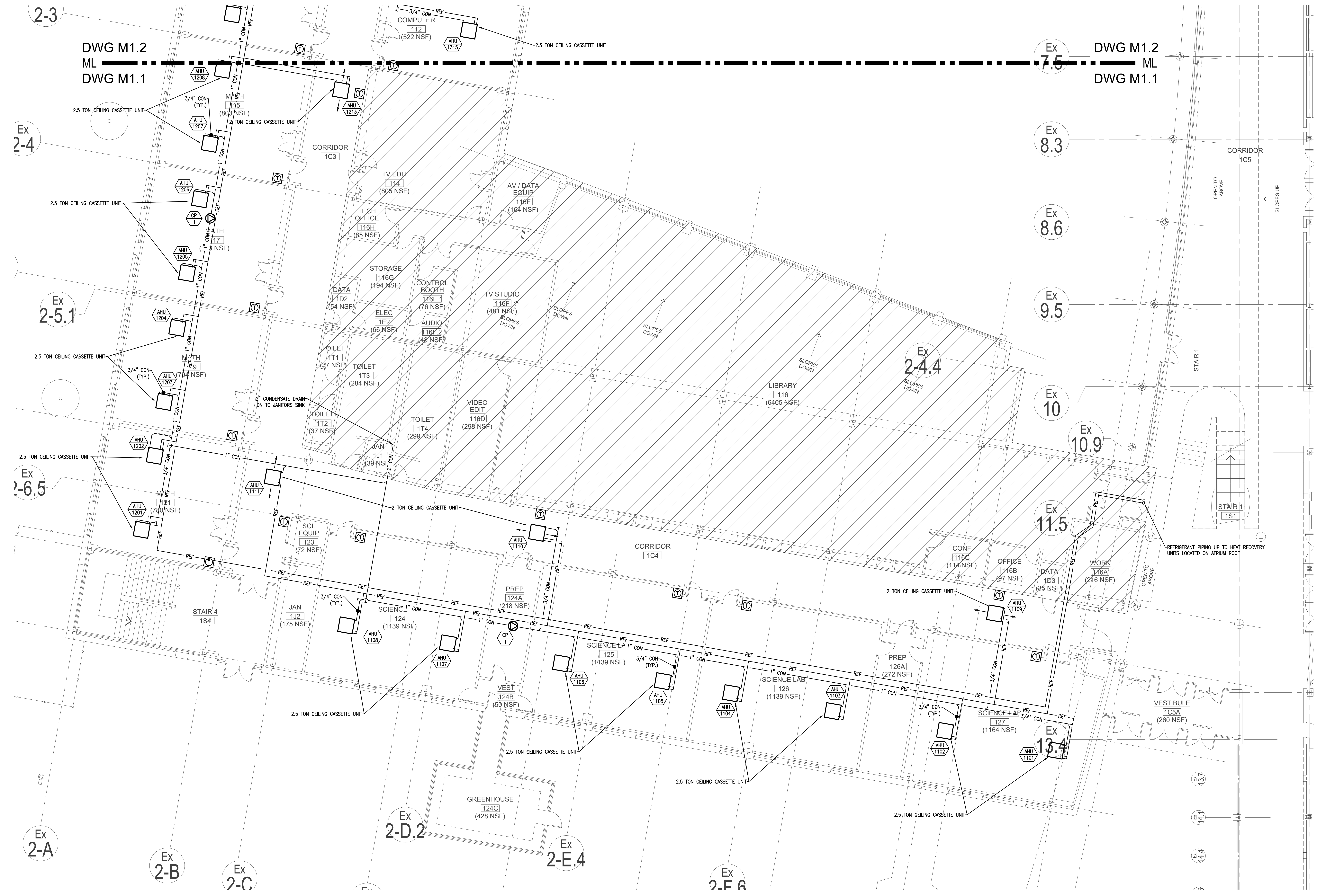
Date: MARCH 4, 2022

Drawn by: KWB Proj. Mgr.: GAA

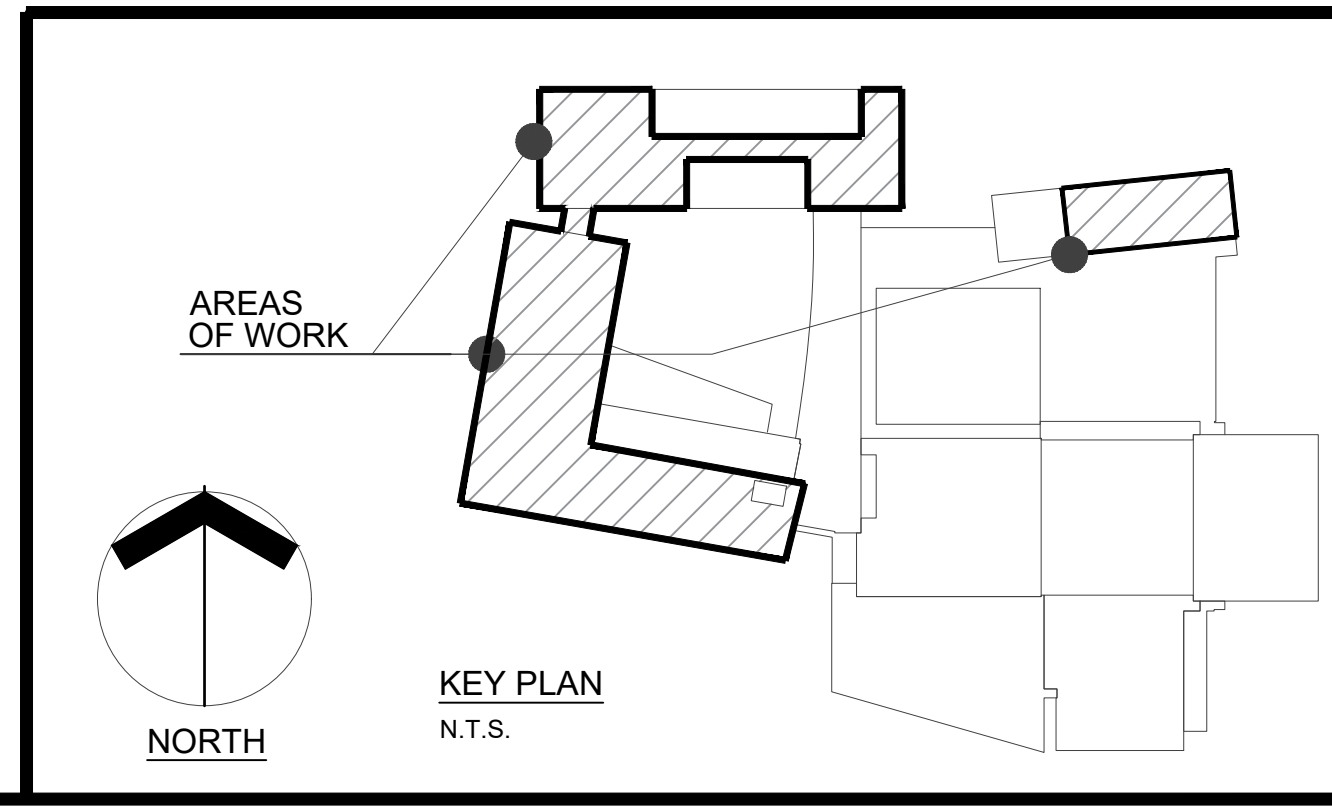
Revisions	No.	Date	Description

**MECHANICAL -
PARTIAL FIRST
FLOOR PLAN**

M1.1



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



**FIRST FLOOR
CLASSROOM
A/C IMPROVEMENTS
AT
NORTH KINGSTOWN
HIGH SCHOOL**



150 Fairway Drive
North Kingstown, Rhode Island

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ber@ber-engineering.com www.ber-engineering.com

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STEVEN A. KARAN



Date: MARCH 4, 2022

Drawn by: KWB Proj. Mgr.: GAA

Revisions

No.	Date	Description

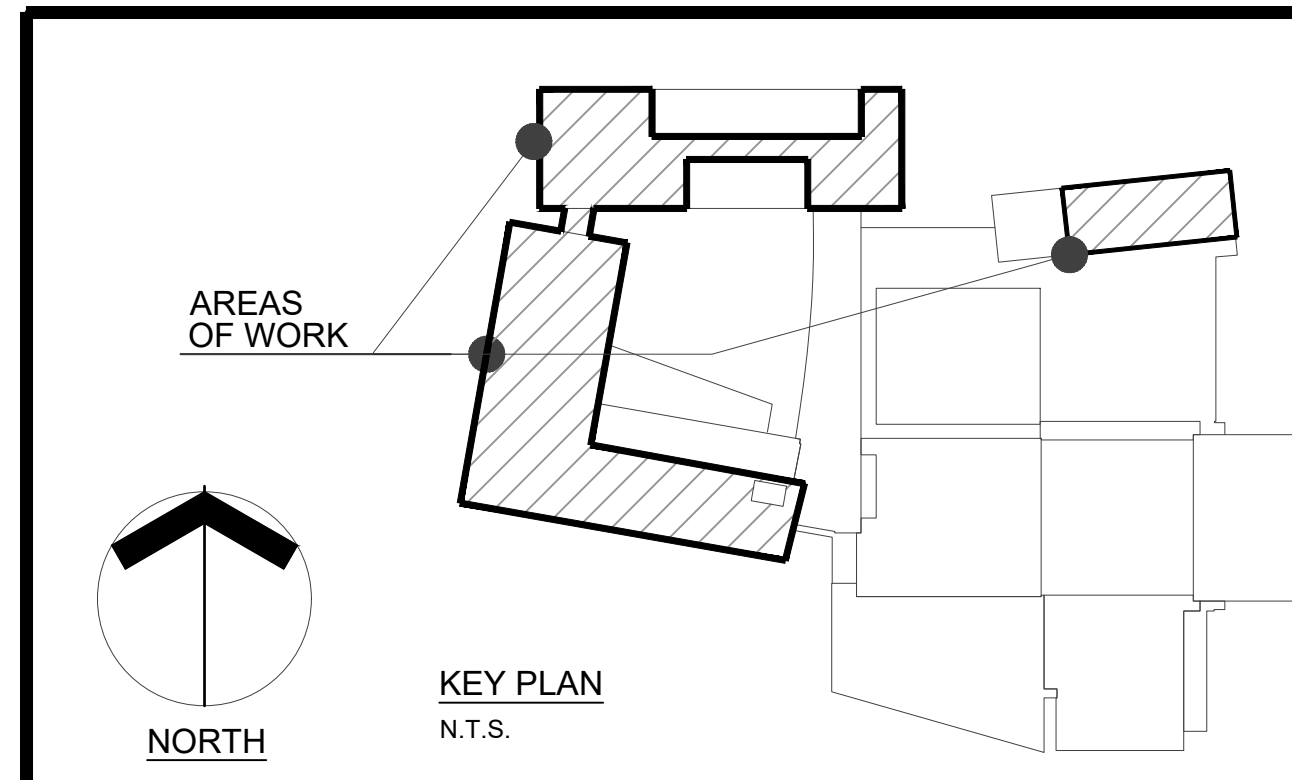
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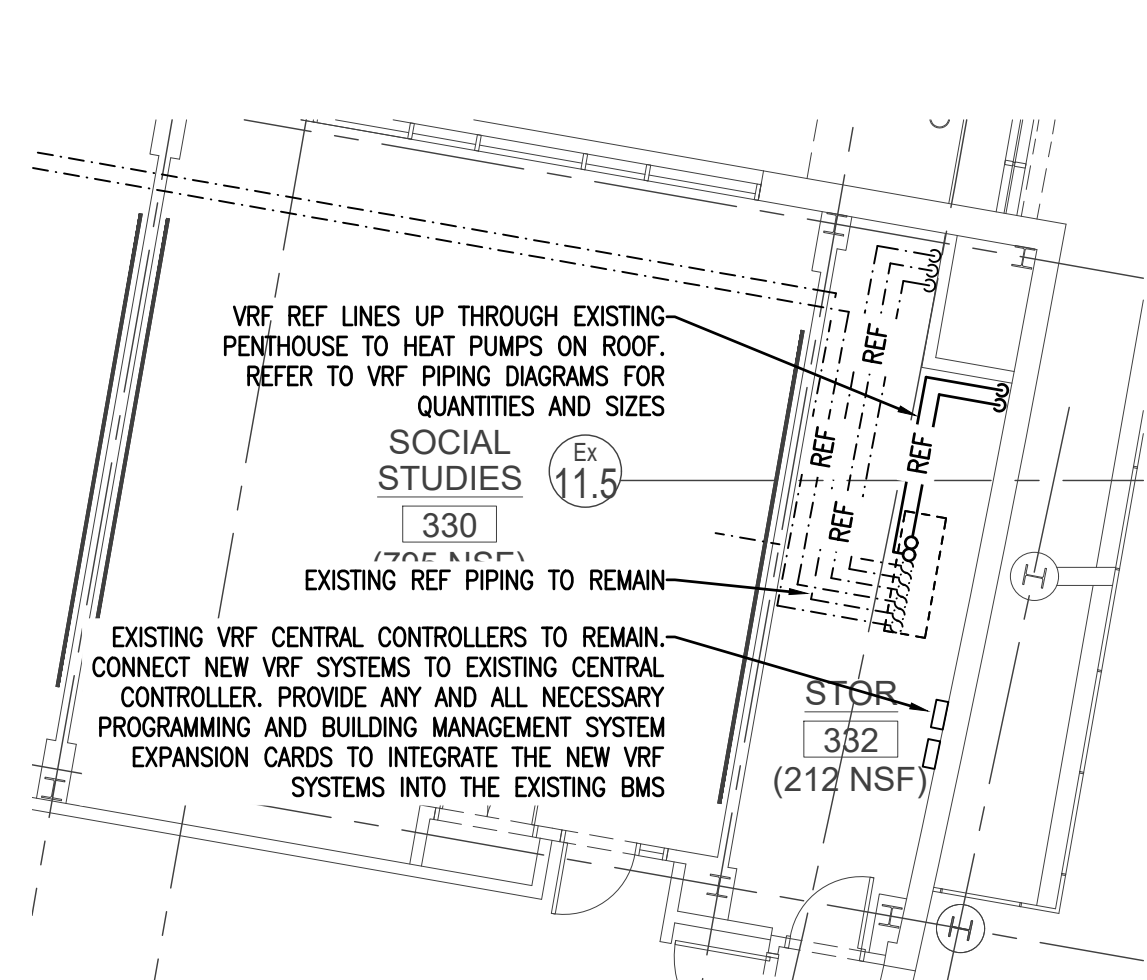
**MECHANICAL -
PARTIAL FIRST
FLOOR PLAN**

M1.2

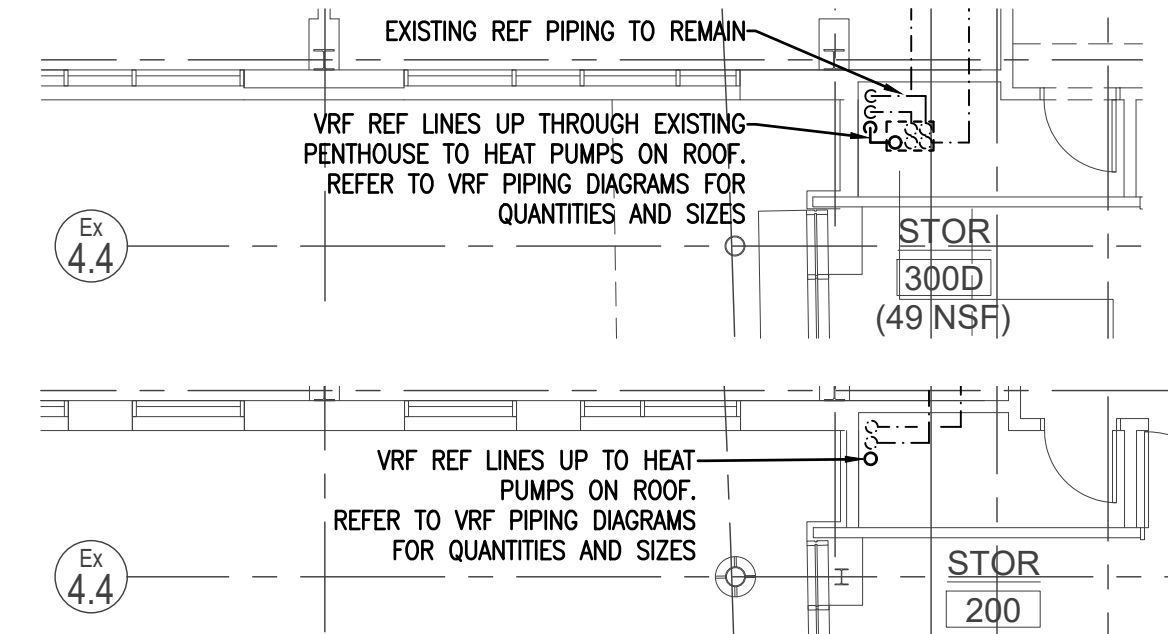


1 PARTIAL FIRST FLOOR PLAN
M1.2 SCALE: 1/8" = 1'-0"

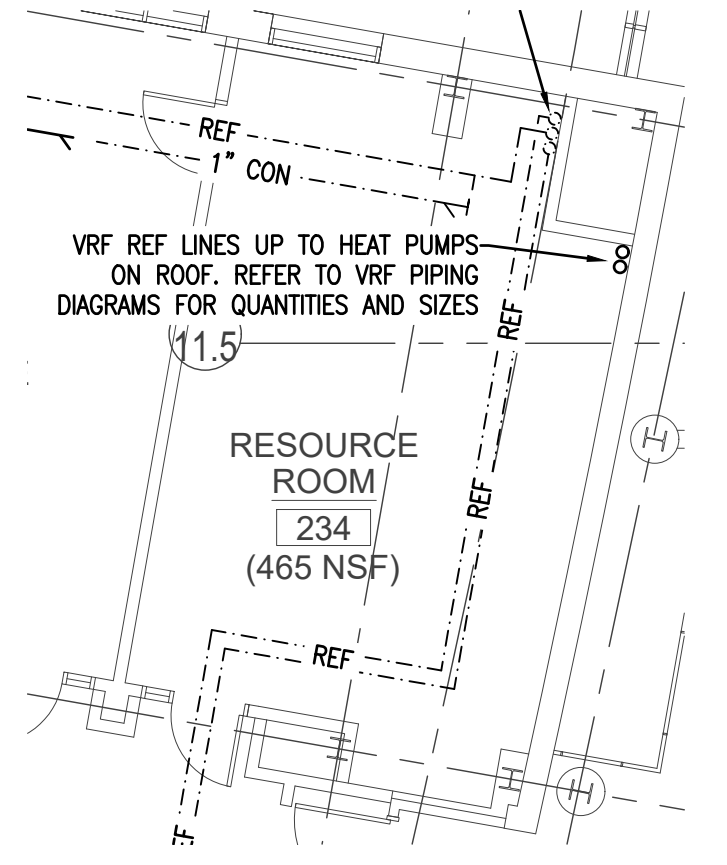




1 PARTIAL 2nd & 3rd FLOOR PLANS
@ HPU-101/102 REFRIGERANT PIPING RISERS
SCALE: 1/8" = 1'-0"



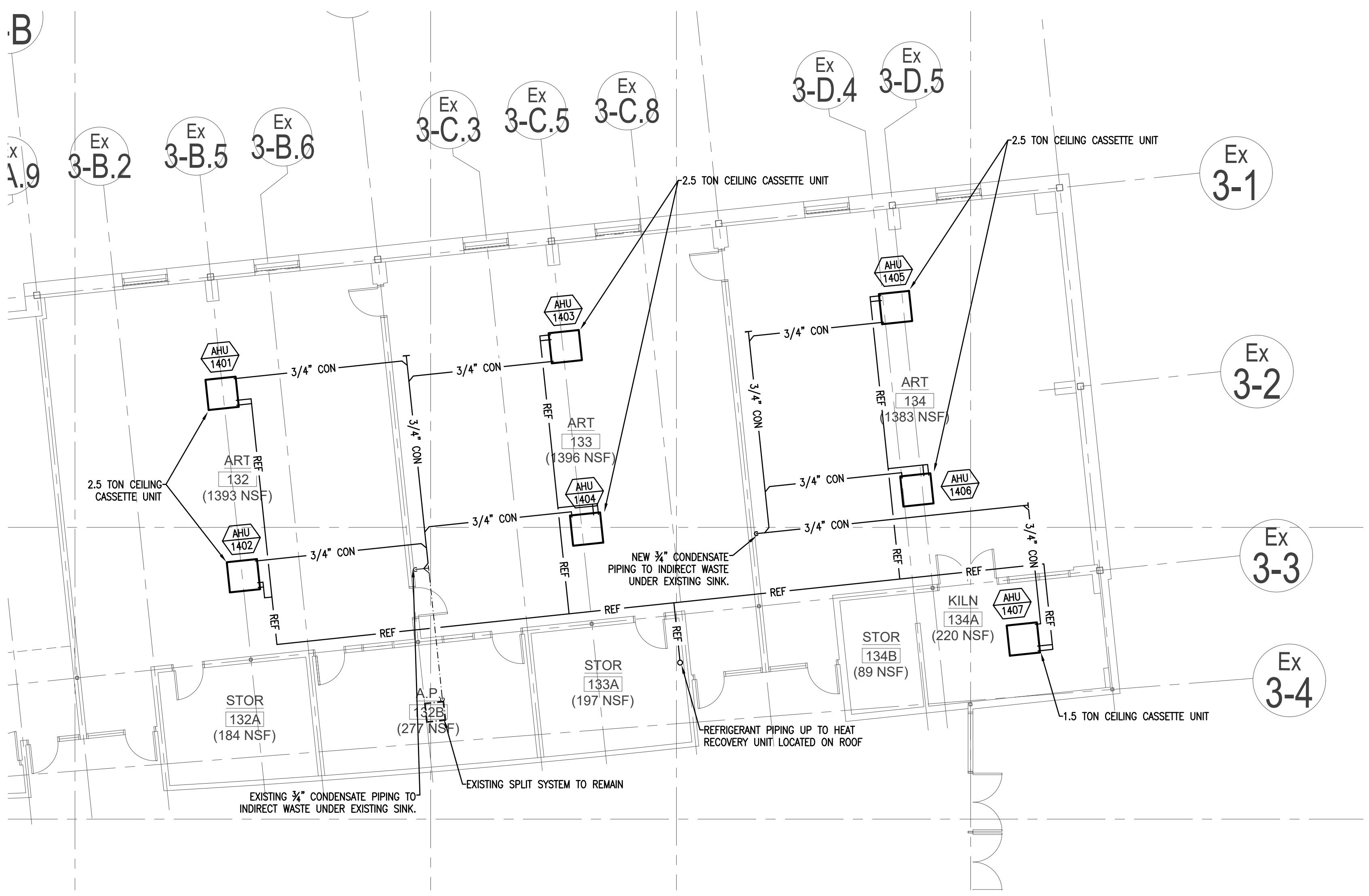
2 PARTIAL 2nd & 3rd FLOOR PLANS
@ HPU-103 REFRIGERANT PIPING RISER
SCALE: 1/8" = 1'-0"



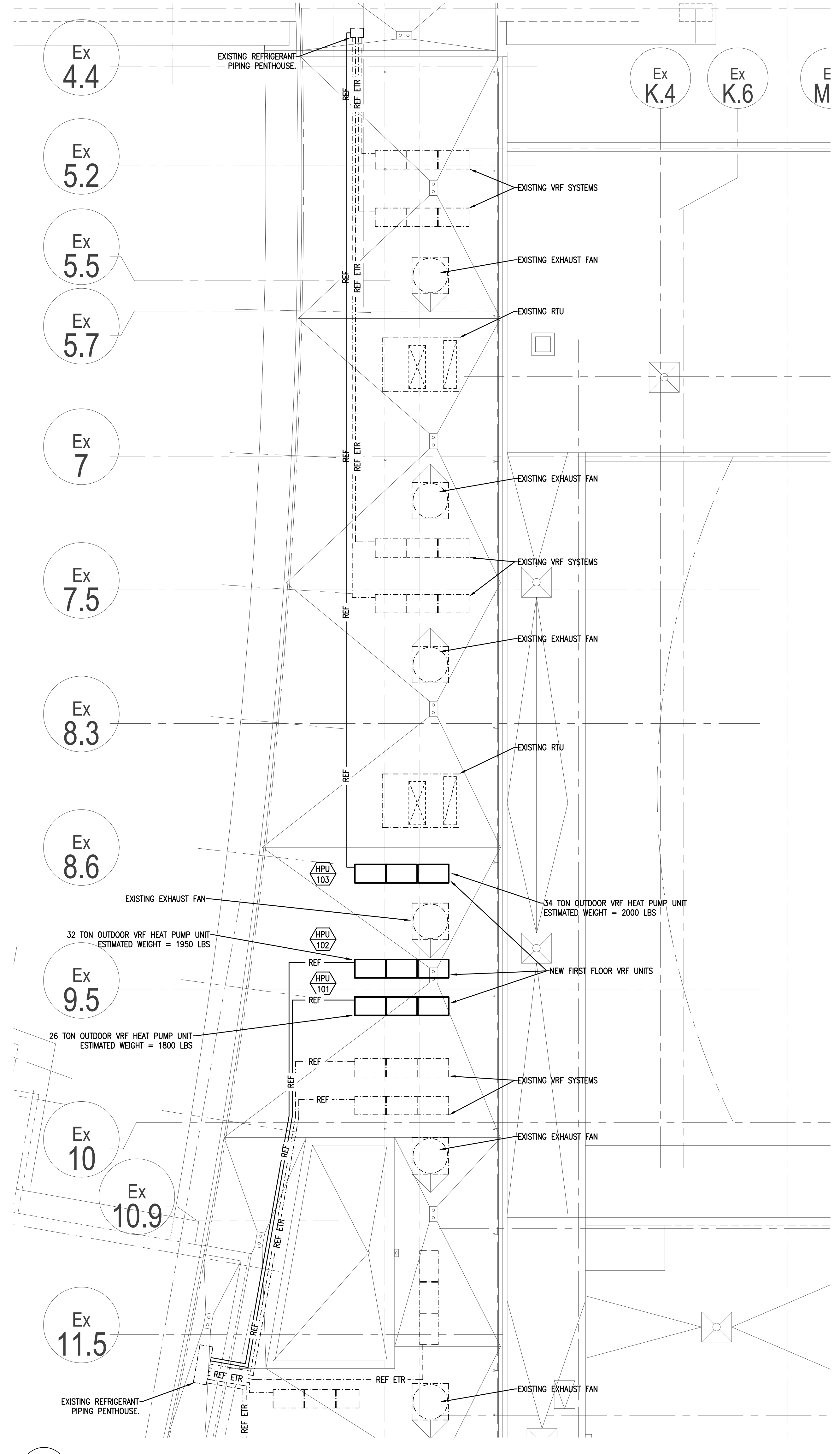
1 PARTIAL 2nd & 3rd FLOOR PLANS
@ HPU-101/102 REFRIGERANT PIPING RISERS
SCALE: 1/8" = 1'-0"



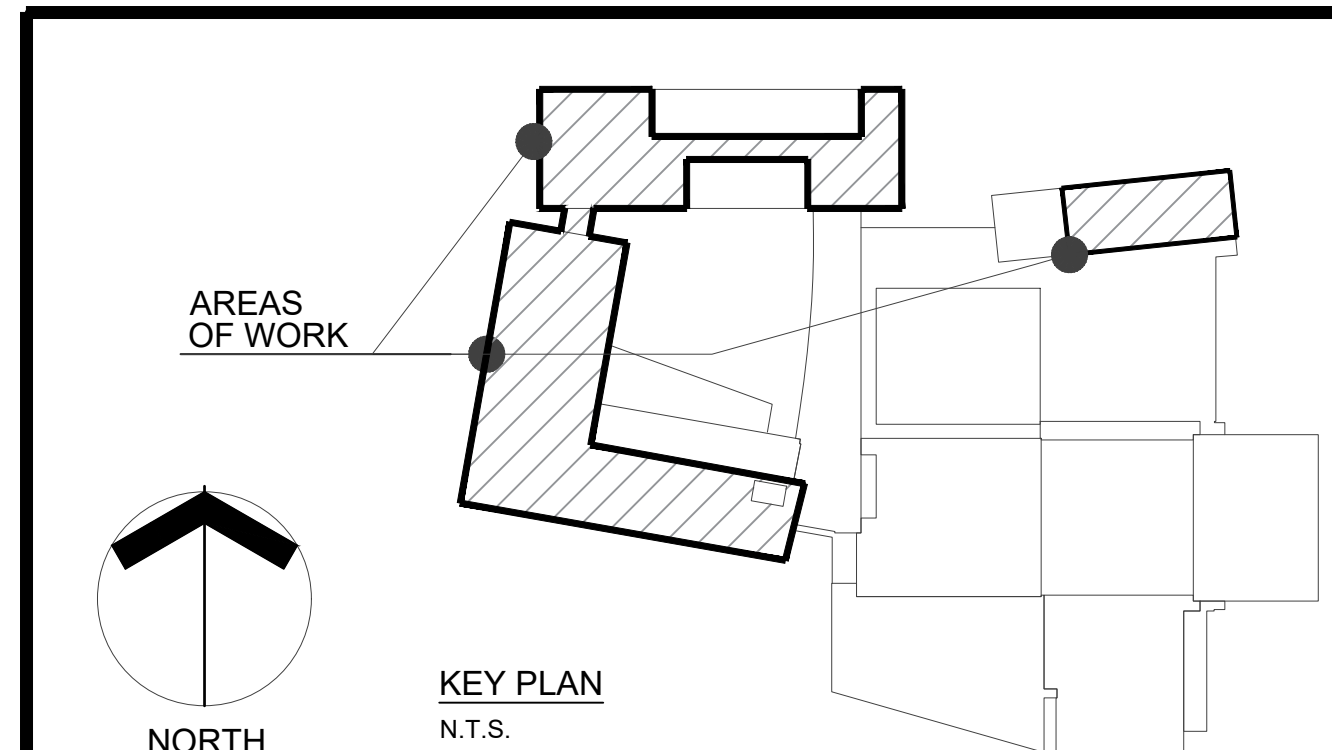
3 PARTIAL ROOF PLAN
SCALE: 1/8" = 1'-0"



4 PARTIAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



5 PARTIAL ROOF PLAN
SCALE: 1/8" = 1'-0"



FIRST FLOOR CLASSROOM A/C IMPROVEMENTS AT NORTH KINGSTOWN HIGH SCHOOL



150 Fairway Drive
North Kingstown, Rhode Island

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STEVEN A. KARAN
No. 6537
REGISTERED PROFESSIONAL ENGINEER (MECHANICAL)

Date: MARCH 4, 2022
Drawn by: KWB Proj. Mgr.: GAA

Revisions	No.	Date	Description

MECHANICAL - PARTIAL FIRST FLOOR & ROOF PLANS

M1.3
19055 - M1.3 18 of 26

CITY MULTI
FIRST FLOOR SYSTEMS SCHEMATIC DWG.

DIAGRAM SYMBOL	LEGEND
(Symbol)	DESCRIPTION
(Symbol)	CONTROL WIRE
(Symbol)	TRAP
(Symbol)	BRANCH JOINT

PIPE	SIZE	INSULATION	FINISH
1/2"	1/2"	1/2"	1/2"
3/4"	3/4"	3/4"	3/4"
1"	1"	1"	1"
1 1/4"	1 1/4"	1 1/4"	1 1/4"
1 1/2"	1 1/2"	1 1/2"	1 1/2"
2"	2"	2"	2"
2 1/2"	2 1/2"	2 1/2"	2 1/2"
3"	3"	3"	3"
4"	4"	4"	4"
6"	6"	6"	6"
8"	8"	8"	8"
10"	10"	10"	10"
12"	12"	12"	12"
14"	14"	14"	14"
16"	16"	16"	16"
18"	18"	18"	18"
20"	20"	20"	20"
24"	24"	24"	24"
30"	30"	30"	30"
36"	36"	36"	36"
42"	42"	42"	42"
48"	48"	48"	48"
54"	54"	54"	54"
60"	60"	60"	60"
66"	66"	66"	66"
72"	72"	72"	72"
78"	78"	78"	78"
84"	84"	84"	84"
90"	90"	90"	90"
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1086"	1086"	1086"	1086"
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1278"	1278"	1278"	1278"
1284"	1284"	1284"	1284"
1290"	1290"	1290"	1290"
1296"	1296"	1296"	1296"
1302"	1302"	1302"	1302"
1308"	1308"	1308"	1308"
1314"	1314"	1314"	1314"
1320"	1320"	1320"	1320"
1326"	1326"	1326"	1326"
1332"	1332"	1332"	1332"
1338"	1338"	1338"	1338"
1344"	1344"	1344"	1344"
1350"	1350"	1350"	1350"
1356"	1356"	1356"	1356"
1362"	1362"	1362"	1362"
1368"	1368"	1368"	1368"
1374"	1374"	1374"	1374"
1380"	1380"	1380"	1380"
1386"	1386"	1386"	1386"
1392"	1392"	1392"	1392"
1398"	1398"	1398"	1398"
1404"	1404"	1404"	1404"
1410"	1410"	1410"	1410"
1416"	1416"	1416"	1416"
1422"	1422"	1422"	1422"
1428"	1428"	1428"	1428"
1434"	1434"	1434"	1434"
1440"	1440"	1440"	1440"
1446"	1446"	1446"	1446"
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1458"	1458"	1458"	1458"
1464"	1464"	1464"	1464"
1470"	1470"	1470"	1470"
1476"	1476"	1476"	1476"
1482"	1482"	1482"	1482"
1488"	1488"	1488"	1488"
1494"	1494"	1494"	1494"
1500"	1500"	1500"	1500"
1506"	1506"	1506"	1506"
1512"	1512"	1512"	1512"
1518"	1518"	1518"	1518"
1524"	1524"	1524"	1524"
1530"	1530"	1530"	1530"
1536"	1536"	1536"	1536"
1542"	1542"	1542"	1542"
1548"	1548"	1548"	1548"
1554"	1554"	1554"	1554"
1560"	1560"	1560"	1560"
1566"	1566"	1	

LEGEND

- MOUNTING HEIGHTS SHALL BE AS INDICATED UNLESS SHOWN OTHERWISE ON ELECTRICAL DRAWINGS OR ARCHITECTURAL ELEVATIONS
- ALL SYMBOLS MAY NOT BE SHOWN ON PLANS

RACEWAYS AND WIRING

- P4-1,3,5 SINGLE PHASE HOMERUNS TO PANELBOARD. "P4" DENOTES PANEL, "1,3,5" DENOTES CIRCUIT NUMBERS, (3) 20A, 1P CIRCUITS] NUMBER OF SLASH MARKS DENOTES NUMBER OF #12AWG CONDUCTORS IN MINIMUM 3/4" C. NO SLASH MARKS INDICATE 2#12 & 1#12G-3/4" C UNLESS INDICATED OTHERWISE.
- P4-2 MULTI-POLE HOMERUN TO PANELBOARD. "P4" DENOTES PANEL, "2" DENOTES CIRCUIT NUMBER, 20 AMP 3 POLE C/B. NUMBER OF SLASH MARKS DENOTES NUMBER OF #12AWG CONDUCTORS IN MINIMUM 3/4" C.

NOTES:

- GREEN GROUND CONDUCTOR NOT INDICATED BUT SHALL BE INCLUDED IN EACH RACEWAY. SIZE SHALL BE #12AWG UNLESS INDICATED OTHERWISE.

RECEPTACLES

- IG 2 GR WP DUPLICATION RECEPTACLE, "2" DENOTES CIRCUIT NUMBER, "GR" DENOTES GROUND FAULT CIRCUIT INTERRUPTER TYPE DEVICE, "WP" DENOTES WEATHER PROOF COVER
- DUPLICATION RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP OR AS INDICATED ON ARCHITECTURAL PLANS
- DOUBLE DUPLICATION RECEPTACLE MOUNTED 6" ABOVE COUNTER TOP OR AS INDICATED ON THE ARCHITECTURAL PLANS
- DOUBLE DUPLICATION RECEPTACLE
- DUPLICATION RECEPTACLE ONE HALF SWITCH CONTROLLED
- GFI DUPLICATION RECEPTACLE FOR ELECTRIC WATER COOLER
- DUPLICATION RECEPTACLE FLOOR MOUNTED
- 16-30 SPECIAL PURPOSE RECEPTACLE, "16-30" DENOTES TYPE, SEE POWER PLANS FOR EXACT TYPES USED
- 12 FACTORY WIRED, FIELD ASSEMBLED UL LISTED, MULTIOUTLET ASSEMBLY. "12" DENOTES SINGLE RECEPTACLES MOUNTED ON 12" CENTERS
- FIELD WIRED, UL LISTED, OF MULTIOUTLET ASSEMBLY, QUANTITY AND TYPE DEVICES AS INDICATED
- Φ SINGLE RECEPTACLE
- Φ T TAMPER RESISTANT DUPLICATION RECEPTACLE
- PEE POWER POLE ASSEMBLY
- Φ ∇ ∇ SURFACE MOUNTED RACEWAY, DIVDED RACEWAY WITH DATA AND DUPLICATION RECEPTACLES AS INDICATED

POWER DISTRIBUTION EQUIPMENT

- ▭ DISTRIBUTION PANEL
- ▬ PANELBOARD, SURFACE MOUNTED
- ▬ PANELBOARD, FLUSH MOUNTED
- ⊙ JUNCTION BOX, SIZED PER NEC
- ⊙ 2 MOTOR, "2" DENOTES HORSEPOWER
- ⊙ MAGNETIC MOTOR STARTER WITH ENCLOSURE, MINIMUM SIZE NEMA 1
- ⊙ P MANUAL MOTOR STARTER WITH THERMAL OVERLOAD. "P" DENOTES PILOT LIGHT
- 30/3 NON-FUSED DISCONNECT SWITCH: "30/3" DENOTES 30 AMP/3 POLE SWITCH
- 30/20/3 FUSED DISCONNECT SWITCH: "30/20/3" DENOTES 30 AMP/3 POLE SWITCH, 20 AMP FUSES
- ⊙ COMBINATION MAGNETIC STARTER AND FUSED DISCONNECT SWITCH. SIZE OF STARTER, SWITCH AND FUSE AS REQUIRED
- ⊕ GROUND ROD, REFER TO PLANS FOR EXACT SIZE

MECHANICAL EQUIPMENT

TAG ABBREVIATIONS

- MI DENOTES EQUIPMENT TYPE
- 1 DENOTES UNIT NUMBER
- ACC AIR-COOLED CONDENSER
- AHU AIR HANDLING UNIT
- B BOILER
- CH CHILLER
- CUH CABINET UNIT HEATER
- EBB ELECTRIC BASEBOARD
- EF EXHAUST FAN
- EH EXHAUST HOOD
- EWH ELECTRIC WALL HEATER
- FC FAN COIL
- HP HEAT PUMP
- MAU MAKE-UP AIR UNIT
- P PUMP
- RTU ROOF TOP UNIT
- UH UNIT HEATER
- VAV VARIABLE AIR VOLUME BOX
- WH ELECTRIC WATER HEATER

MISCELLANEOUS

- ⊕ JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT
- ⊕ EXHAUST FAN

ABBREVIATIONS

- JR NEMA 3R RATING
- 4X NEMA 4X RATING
- A AMPERES
- AFB ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AC AMPERE INTERRUPTING CAPACITY
- ARCH ARCHITECT
- ATS AUTOMATIC TRANSFER SWITCH
- AWG AMERICAN WIRE GAUGE
- C CONDUIT
- C/B CIRCUIT BREAKER
- C.T. CURRENT TRANSFORMER
- CAT CATALOG
- CKT CIRCUIT
- CU COPPER
- DWG DRAWING
- E WIRED ON EMERGENCY CIRCUIT
- EC ELECTRICAL CONTRACTOR
- EM EMERGENCY
- ETD EXISTING TO BE DEMOLISHED
- ETR EXISTING TO REMAIN
- ETRL EXISTING TO BE RELOCATED
- ETRP EXISTING TO BE REPLACED
- G GROUND
- GC GENERAL CONTRACTOR
- GFI GROUND FAULT INTERRUPTER
- HVAC HEATING, VENTILATION, AIR CONDITIONING CONTRACTOR
- IG ISOLATED GROUND
- KCML ONE THOUSAND CIRCULAR MILS
- KVA KILOVOLT-AMPERES
- KVAR KILOVOLT-AMPERES REACTIVE
- KW KILOWATTS
- MCB MAIN CIRCUIT BREAKER
- MCC MOTOR CONTROL CENTER
- MLO MAIN LUGS ONLY
- NC NORMALLY CLOSED
- NEC NATIONAL ELECTRICAL CODE
- NL NIGHT LIGHT
- NO NORMALLY OPEN
- NTS NOT TO SCALE
- # PHASE
- P POLE
- PC PLUMBING CONTRACTOR
- P.T. POTENTIAL TRANSFORMER
- PVC POLYVINYL CHLORIDE
- RL NEW LOCATION OF RELOCATED DEVICE
- SM SURFACE MOUNT
- ST SHUNT TRIP
- T/D TEL/DATA
- TEL TELEPHONE
- UG UNDERGROUND
- UNO UNLESS NOTED OTHERWISE
- V VOLT
- VF VERIFY IN FIELD
- W WATT
- WP WEATHERPROOF
- XFMR TRANSFORMER

DEMOLITION AND REMOVAL WORK

- REMOVE ALL ELECTRICAL EQUIPMENT, WIRING, AND OTHER ELECTRICAL WORK AS REQUIRED. DISCONNECT LOAD AND LINE END OF CONDUCTORS FEEDING DEVICES WHICH ARE TO BE REMOVED OR ABANDONED. REMOVE CONDUCTORS NO LONGER IN USE. CUT BACK TO FLOOR, WALL, OR CEILING AND PLUG BOTH ENDS OF CONCEALED CONDUITS MADE OBSOLETE BY THIS ALTERATION. REMOVE EXPOSED OR ABANDONED CIRCUITS AND OUTLETS. REMOVE MATERIAL AND EQUIPMENT AND DISPOSE OF AS DIRECTED.
- WHEREVER IT IS REQUIRED TO DISCONNECT OR REMOVE ANY PART OF AN EXISTING CIRCUIT, IMMEDIATELY RECONNECT THAT CIRCUIT OR REESTABLISH SERVICE IN THE REMAINING PORTION OF THE CIRCUIT.
- THE WORK SHALL ALSO INCLUDE THE REMOVAL OF MATERIALS AS DIRECTED. PRIOR TO REMOVING EQUIPMENT AND MATERIAL FROM PROJECT SITE, THE BUILDING MANAGER OR OWNER WILL INSPECT AND ADVISE WHICH ITEMS WILL BE STORED.
- WHERE EXISTING RECEPTACLES AND/OR SWITCHES ARE LOCATED IN PARTITIONS TO BE REMOVED SHALL HAVE ALL WIRING AND CONDUIT REMOVED AS WELL.
- WHERE PRESENT WORK IS DAMAGED IN THE EXECUTION OF THIS CONTRACT, OR WHERE OPENINGS ARE LEFT DUE TO THE REMOVAL OF CONDUITS, EQUIPMENT, OR APPARATUS, THE SAME SHALL BE REPAIRED OR CLOSED UP TO CORRESPOND IN MATERIAL, QUALITY, SHAPE, AND FINISH WITH THAT OR SIMILAR AND ADJOINING WORK, UNLESS OTHERWISE CALLED FOR.
- SHOULD ANY DAMAGE DUE TO THE EXECUTION OF THIS CONTRACT OCCUR TO THE FURNITURE, FIXTURES, OR ANY OTHER EQUIPMENT OR APPARATUS, SUCH DAMAGES SHALL BE PROPERLY REPAIRED WITH THE SUPPLY OF NEW ARTICLES AND MADE GOOD WITHOUT EXTRA CHARGE.
- WHERE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT WILL RESULT IN OUTAGES IN AREA NOT TO BE DEMOLISHED, THIS CONTRACTOR SHALL COORDINATE IN ADVANCE AND OBTAIN THE APPROVAL OF THE BUILDING MANAGER OR OWNER.

BRANCH CIRCUIT WIRING NOTES:

- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.
- ALTHOUGH ALL BRANCH CIRCUIT WIRING AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- A GREEN GROUNDING CONDUCTOR SHALL BE RUN WITH ALL CIRCUITS. VERIFY CONDUIT SIZE TO ENSURE IT CAN ACCOMMODATE ALL PHASE, NEUTRAL AND GROUND CONDUCTORS.
- ALL 15A AND 20A, 125V RECEPTACLES IN NON-DWELLING TYPE OCCUPANCIES SHALL BE GFCI PROTECTED PER NEC ARTICLE 210.8(B).

FIRE ALARM SYSTEM

- AM ADDRESSABLE INPUT MONITOR MODULE
- OM ADDRESSABLE OUTPUT CONTROL MODULE

FIRST FLOOR CLASSROOM A/C IMPROVEMENTS AT NORTH KINGSTOWN HIGH SCHOOL



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Date: MARCH 4, 2022

Drawn by: NM Proj. Mgr.: GM

Revisions

No. Date Description

ELECTRICAL - LEGEND, SCHEDULE, & NOTES

E1.0

**FIRST FLOOR
CLASSROOM
A/C IMPROVEMENTS
AT
NORTH KINGSTOWN
HIGH SCHOOL**



150 Fairway Drive
North Kingstown, Rhode Island

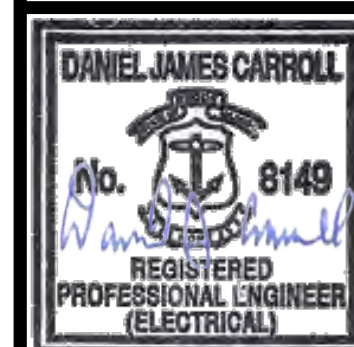
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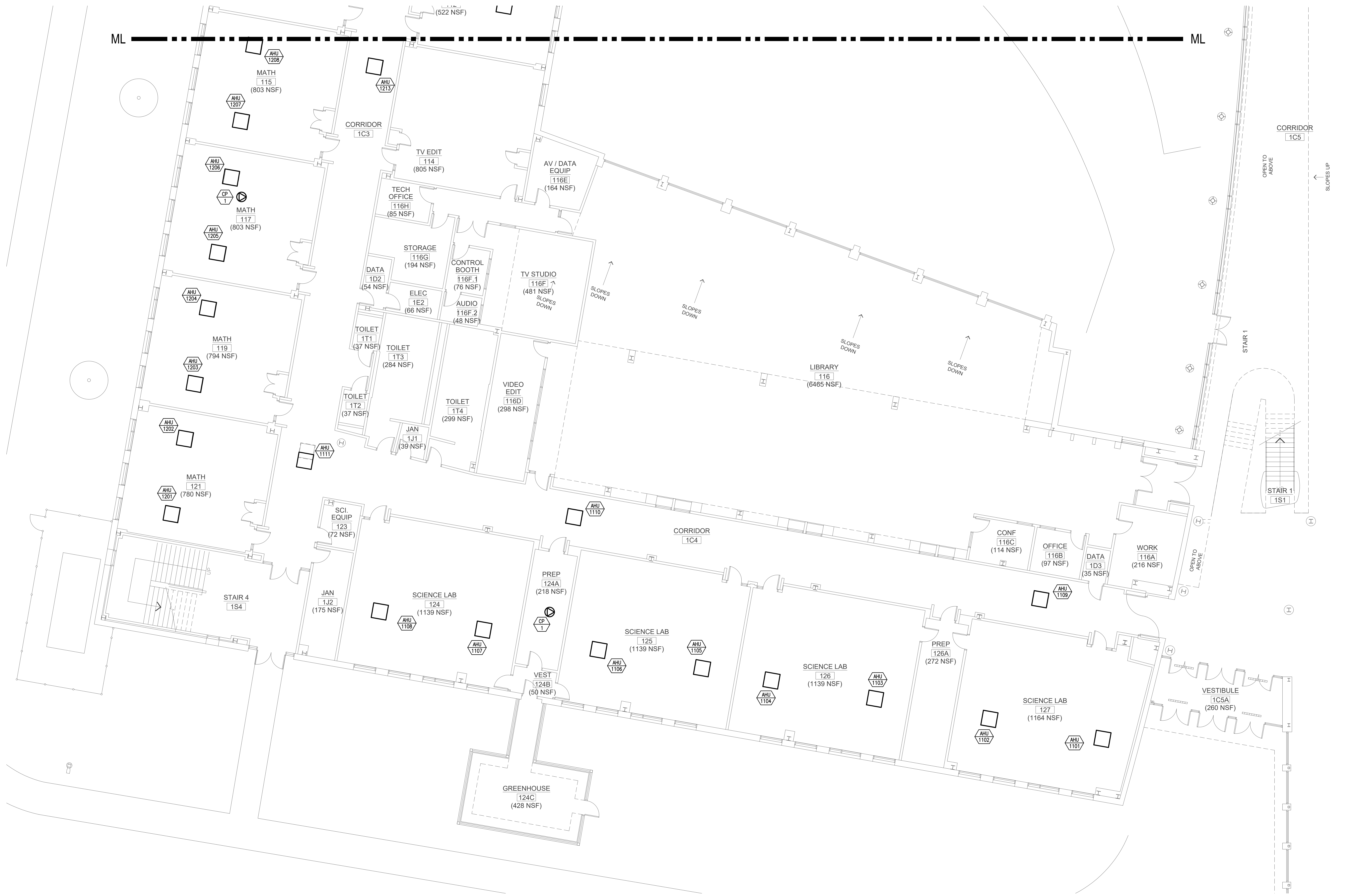
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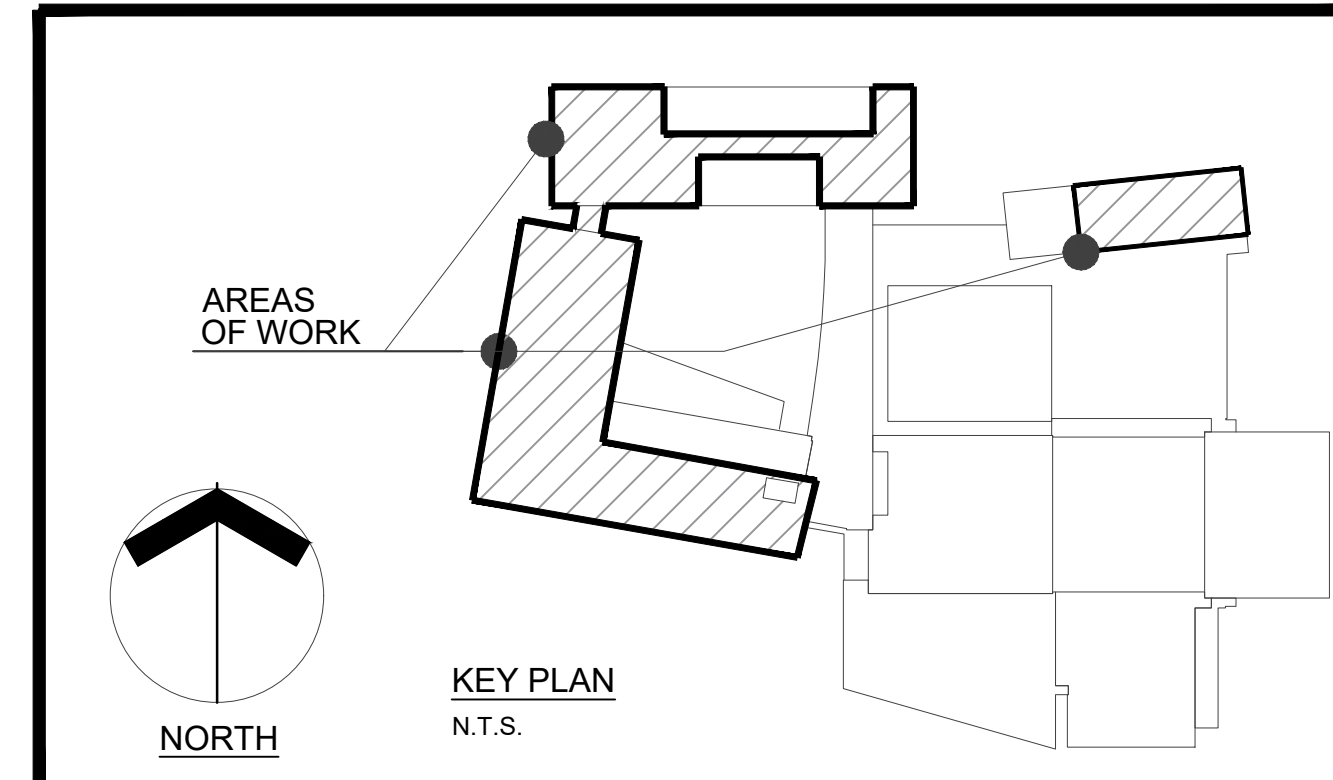
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**ELECTRICAL - PARTIAL
FIRST FLOOR PLAN**

E1.1



1 PARTIAL FIRST FLOOR PLAN
 E1.1 SCALE: 1/8" = 1'-0"



**FIRST FLOOR
CLASSROOM
A/C IMPROVEMENTS
AT
NORTH KINGSTOWN
HIGH SCHOOL**



150 Fairway Drive
North Kingstown, Rhode Island

**Edward Rowse
ARCHITECTS**

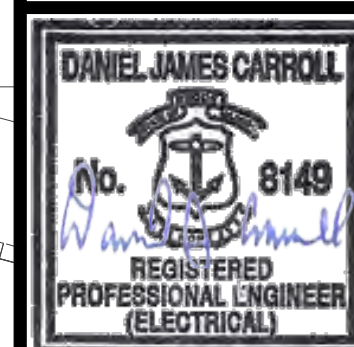
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GENERAL NOTES

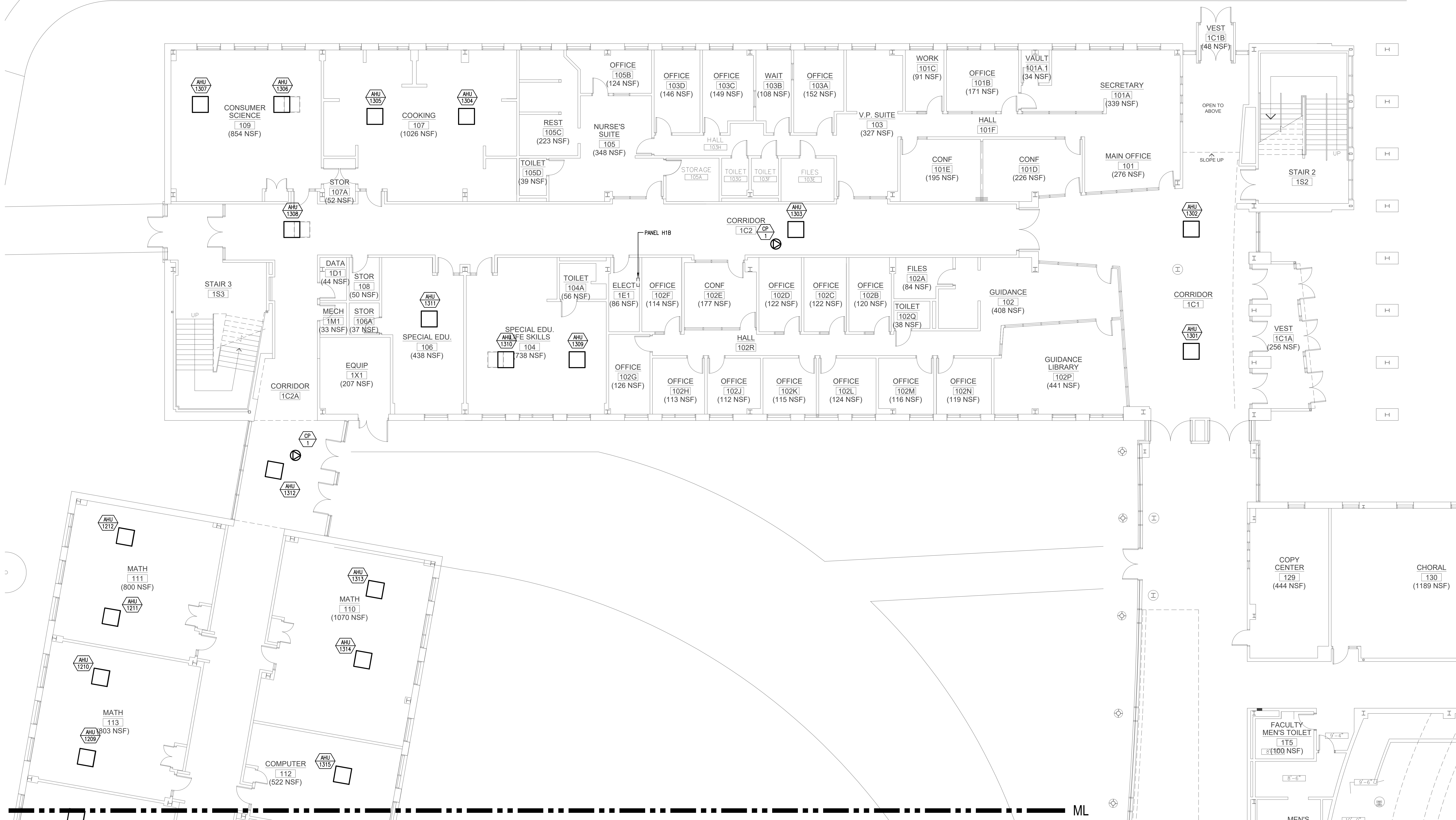
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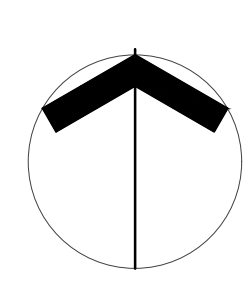
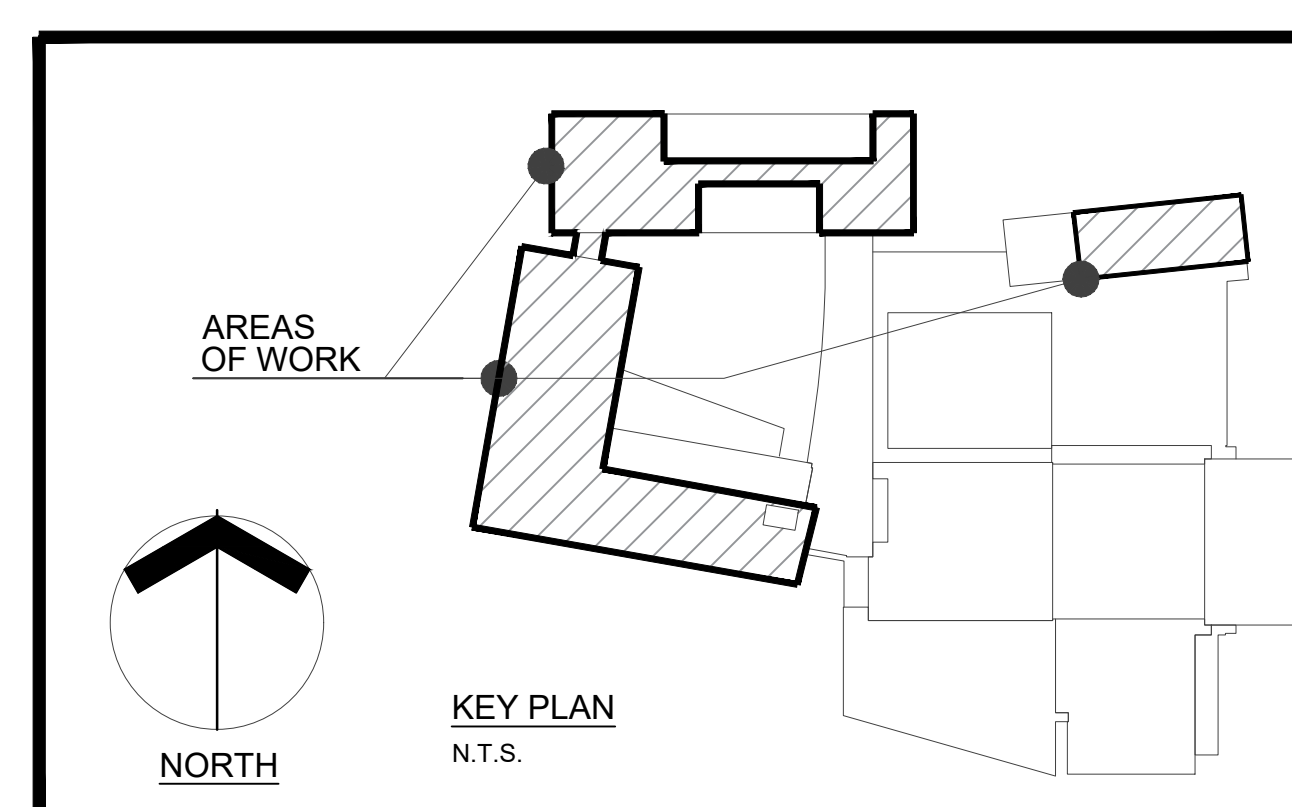
Date: MARCH 4, 2022
 Drawn by: NM Proj. Mgr.: GAA
 Revisions
 No. Date Description

**ELECTRICAL - PARTIAL
FIRST FLOOR PLAN**

E1.2



1 PARTIAL FIRST FLOOR PLAN
 E1.2 SCALE: 1/8" = 1'-0"



KEY PLAN
 N.T.S.

**FIRST FLOOR
CLASSROOM
A/C IMPROVEMENTS
AT
NORTH KINGSTOWN
HIGH SCHOOL**



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Revisions

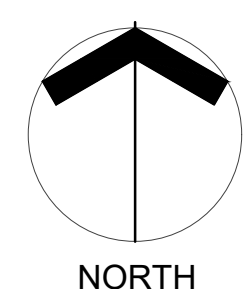
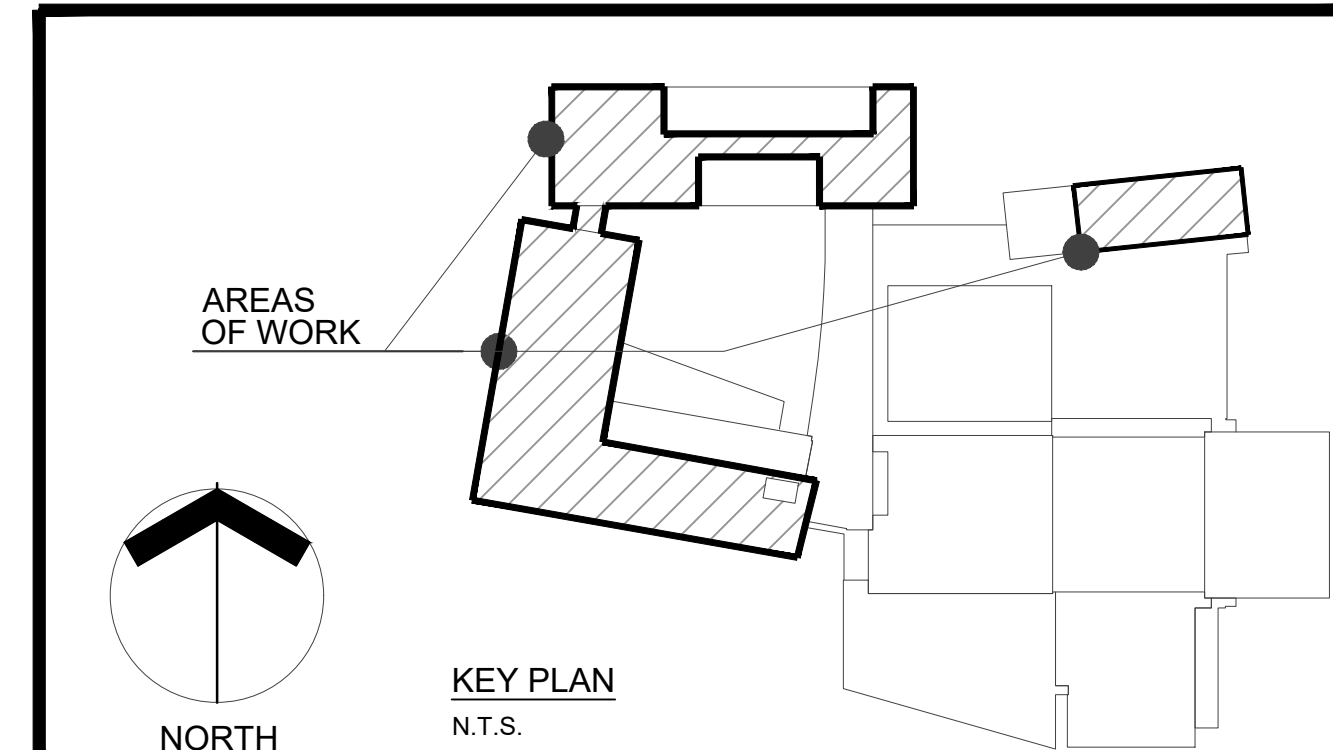
No.	Date	Description

**ELECTRICAL - PARTIAL
FIRST FLOOR PLAN**

E1.3



1 PARTIAL FIRST FLOOR PLAN
 SCALE: 1/8" = 1'-0"



KEY PLAN
N.T.S.

**FIRST FLOOR
CLASSROOM
A/C IMPROVEMENTS
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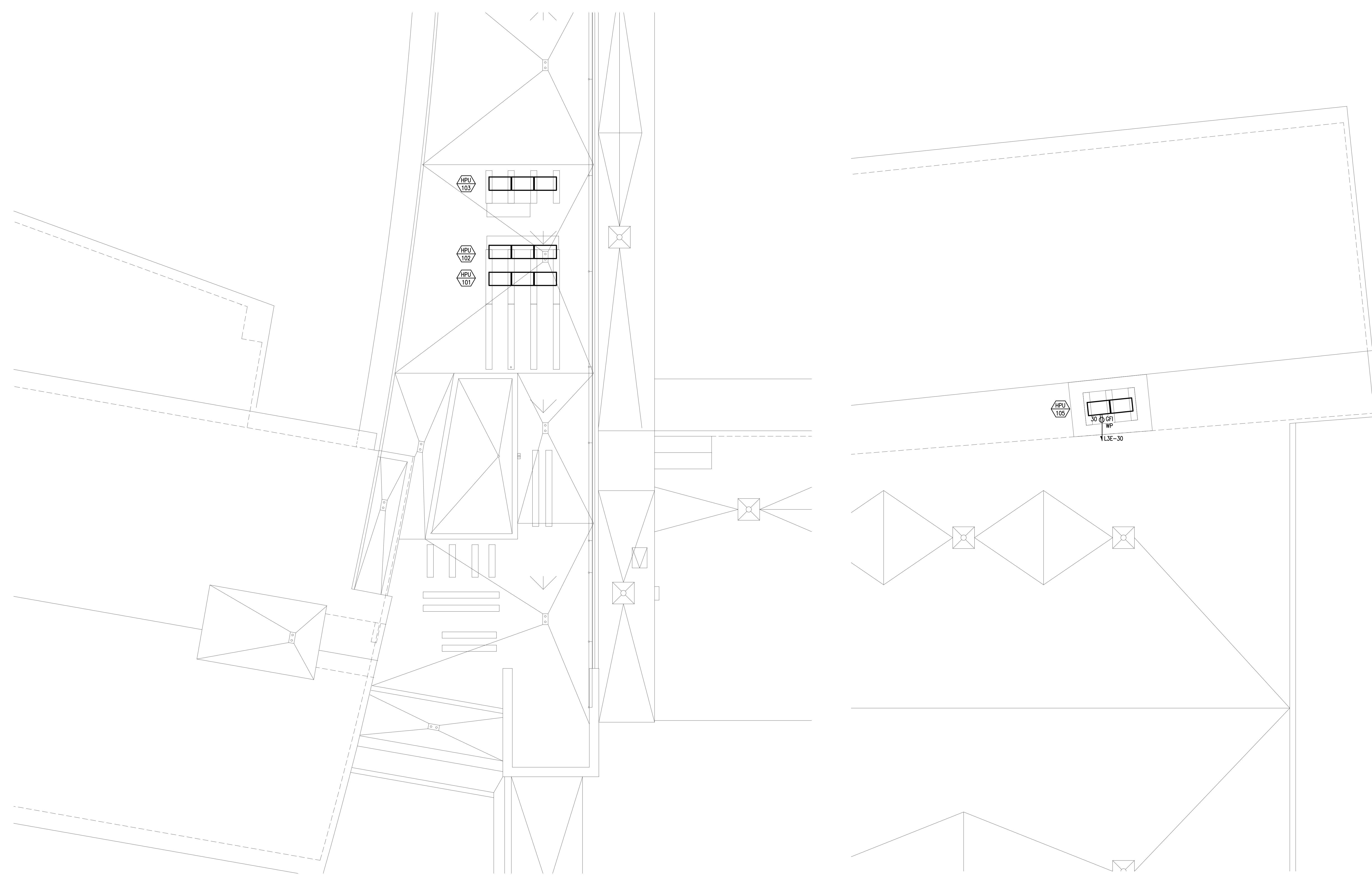
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Revisions

No.	Date	Description

**ELECTRICAL - PARTIAL
ROOF PLAN**

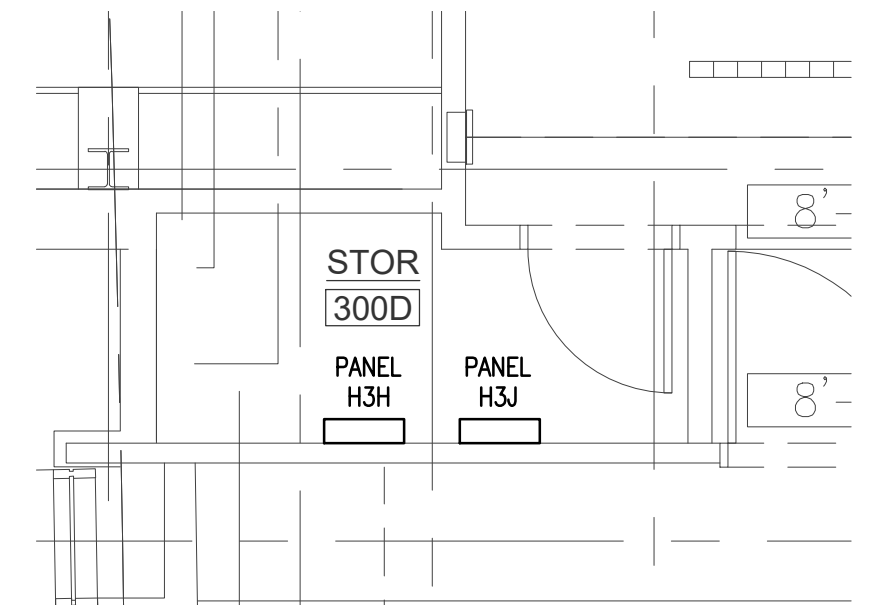
E2.0



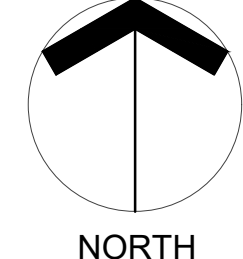
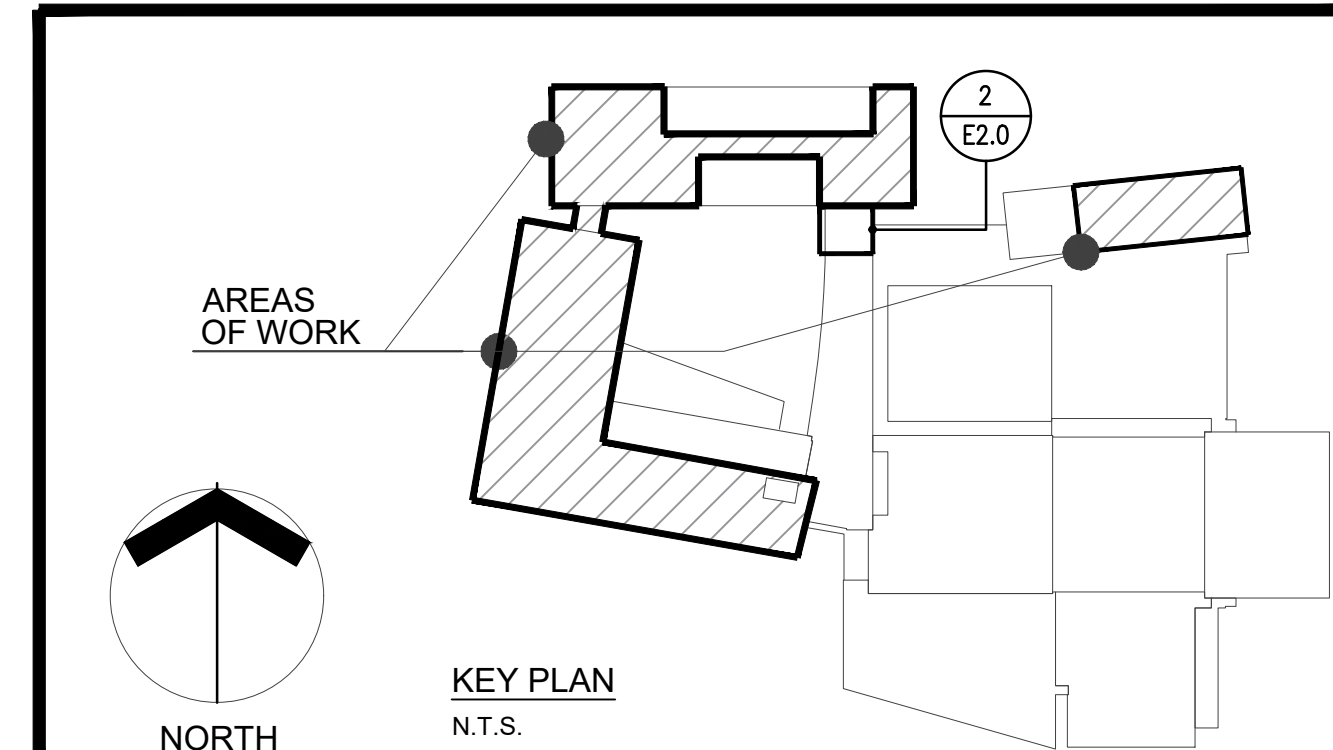
1
PARTIAL ROOF PLAN
SCALE: 1/8" = 1'-0"

2
PARTIAL ROOF PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTE:
MOUNT DISCONNECT SWITCH ON UNSTRUCTURED RACK INDEPENDENT OF MECHANICAL UNIT.



2
ENLARGED STORAGE FLOOR PLAN
SCALE: 1/4" = 1'-0"



KEY PLAN
N.T.S.

SCHEDULE OF MECHANICAL EQUIPMENT														
TAG NAME	DESCRIPTION	CHARACTERISTICS/LOAD	VOLT	PH	PANEL CIRCUIT	CIRCUIT BREAKER	FEEDER	CONNECTIONS REQUIRED					REMARKS	
								⌚	⌚	⌚	⌚	⌚		
HPU-101	MODULE 1	MCA: 19 MOP: 25	480	3	H3H-1,3,5	25A/3P	3#10 & 1#10G. IN 3/4"C.							
	MODULE 2	MCA: 19 MOP: 25	480	3	H3H-7,9,11	25A/3P	3#10 & 1#10G. IN 3/4"C.							
	MODULE 3	MCA: 11 MOP: 20	480	3	H3H-13,15,17	20A/3P	3#12 & 1#12G. IN 3/4"C.							
HPU-102	MODULE 1	MCA: 22 MOP: 30	480	3	H3H-19,21,23	30A/3P	3#10 & 1#10G. IN 3/4"C.							
	MODULE 2	MCA: 19 MOP: 25	480	3	H3H-25,27,29	25A/3P	3#10 & 1#10G. IN 3/4"C.							
	MODULE 3	MCA: 19 MOP: 25	480	3	H3H-31,33,35	25A/3P	3#10 & 1#10G. IN 3/4"C.							
HPU-103	MODULE 1	MCA: 22 MOP: 30	480	3	H3J-1,3,5	30A/3P	3#10 & 1#10G. IN 3/4"C.							
	MODULE 2	MCA: 22 MOP: 30	480	3	H3J-7,9,11	25A/3P	3#10 & 1#10G. IN 3/4"C.							
	MODULE 3	MCA: 19 MOP: 25	480	3	H3J-13,15,17	20A/3P	3#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.							
	MODULE 2	MCA: 15 MOP: 20	480	3	H3J-25,27,29	25A/3P	3#10 & 1#10G. IN 3/4"C.							
AHU 1101	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1102	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1103	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1104	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1105	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 2106	AIR HANDLING	MCA: 57 MOP: 15	208	1	H1B-30,32	20A/2P	2#12 & 1#12G. IN 3/4"C.							
AHU 1107	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1108	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1109	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1110	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1111	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1201	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1202	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1203	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1204	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
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	MCA: 57 MOP: 15	208	1	H1B-31,33	20A/2P	2#12 & 1#12G. IN 3/4"C.							
AHU 1209	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1210	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1211	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1212	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1213	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1301	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1302	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1303	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1304	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1305	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1306	AIR HANDLING	MCA: 57 MOP: 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	2#12 & 1#12G. IN 3/4"C.							
AHU 1310	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1311	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1312	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1313	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1314	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1315	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1401	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1402	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1403	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1404	AIR HANDLING	MCA: 57 MOP: 15	208	1	H1B-35,37	20A/2P	2#12 & 1#12G. IN 3/4"C.							
AHU 1405	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 1406	AIR HANDLING	MCA: 57 MOP: 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	MCA: 80 MOP: 15	120	1	H1B-41	20A/1P	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.							

SCHEDULE OF MECHANICAL EQUIPMENT														
TAG NAME	DESCRIPTION	CHARACTERISTICS/LOAD	VOLT	PH	PANEL CIRCUIT	CIRCUIT BREAKER	FEEDER	CONNECTIONS REQUIRED					REMARKS	
								⌚	⌚	⌚	⌚	⌚		
AHU 2501	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 2502	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 2503	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 2504	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 2505	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 2506	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 2507	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 2508	AIR HANDLING	MCA: 57 MOP: 15	208	1	H1B-38,40	20A/2P	2#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.							
AHU 2510	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 2511	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 2512	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 2513	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 2514	AIR HANDLING	MCA: 57 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 2515	AIR HANDLING	MCA: 39 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 2516	AIR HANDLING	MCA: 39 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							
AHU 2517	AIR HANDLING	MCA: 39 MOP: 15	208	1			2#12 & 1#12G. IN 3/4"C.							

PANELBOARD SCHEDULE																
PANEL DESIGNATION	VOLTS	PHASE	WIRING	MLO: MCB: MCB: MAIN OVRT. BKR. ONLY	TRIP	BRANCH DEVICES						ADDITIONAL BRANCH C.B.'S	REMARKS			
						AMP	TRIP	TRIP	TRIP	TRIP	TRIP					
H3H	277/480	3	4	225	225	15	20	25	30	40	50	60	70	42	S	
H3J	277/480	3	4	225	225	1	2	3	4	5	6	7	8	42	S	

* INCLUDES SPACES

FIRST FLOOR CLASSROOM A/C IMPROVEMENTS AT NORTH KINGSTOWN HIGH SCHOOL



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GENERAL NOTES

**FIRST FLOOR
CLASSROOM
A/C IMPROVEMENTS
AT
NORTH KINGSTOWN
HIGH SCHOOL**



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GENERAL NOTES

- EXISTING CONDITIONS WERE OBTAINED FROM DRAWINGS AND DATA PROVIDED BY THE OWNER AND A/E FIELD SURVEY. NO WARRANTY OF ACTUAL CONDITIONS IS INTENDED BY ARCHITECT OR OWNER. CONTRACTOR TO VERIFY AND COORDINATE ALL EXISTING CONDITIONS WITH NEW WORK PRIOR TO BID, START OF CONSTRUCTION OR ANY FABRICATION.
- CONTRACTOR SHALL VISIT SITE, PRIOR TO BID, AND CAREFULLY INVESTIGATE AND EXAMINE THE AREA OF WORK SO AS TO SATISFY HIMSELF AS TO THE NATURE AND LOCATION OF THE WORK. CONTRACTOR TO NOTE THE CHARACTER, QUALITY, QUANTITIES OF MATERIALS REQUIRED AND DIFFICULTIES TO BE ENCOUNTERED, THE KIND AND EXTENT OF EQUIPMENT AND FACILITIES NEEDED FOR PERFORMANCE OF THE WORK AND OTHER ITEMS WHICH MAY, IN ANY WAY, AFFECT THE WORK OR CONTRACTOR'S PERFORMANCE.
- DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- NO EXITS SHALL BE CLOSED WITHOUT THE WRITTEN PERMISSION OF THE OWNER AND LOCAL AUTHORITIES HAVING JURISDICTION.
- THE BUILDING WILL BE OCCUPIED DURING ALL OF THE CONSTRUCTION PROCESS. THE 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.



Date: MARCH 4, 2022

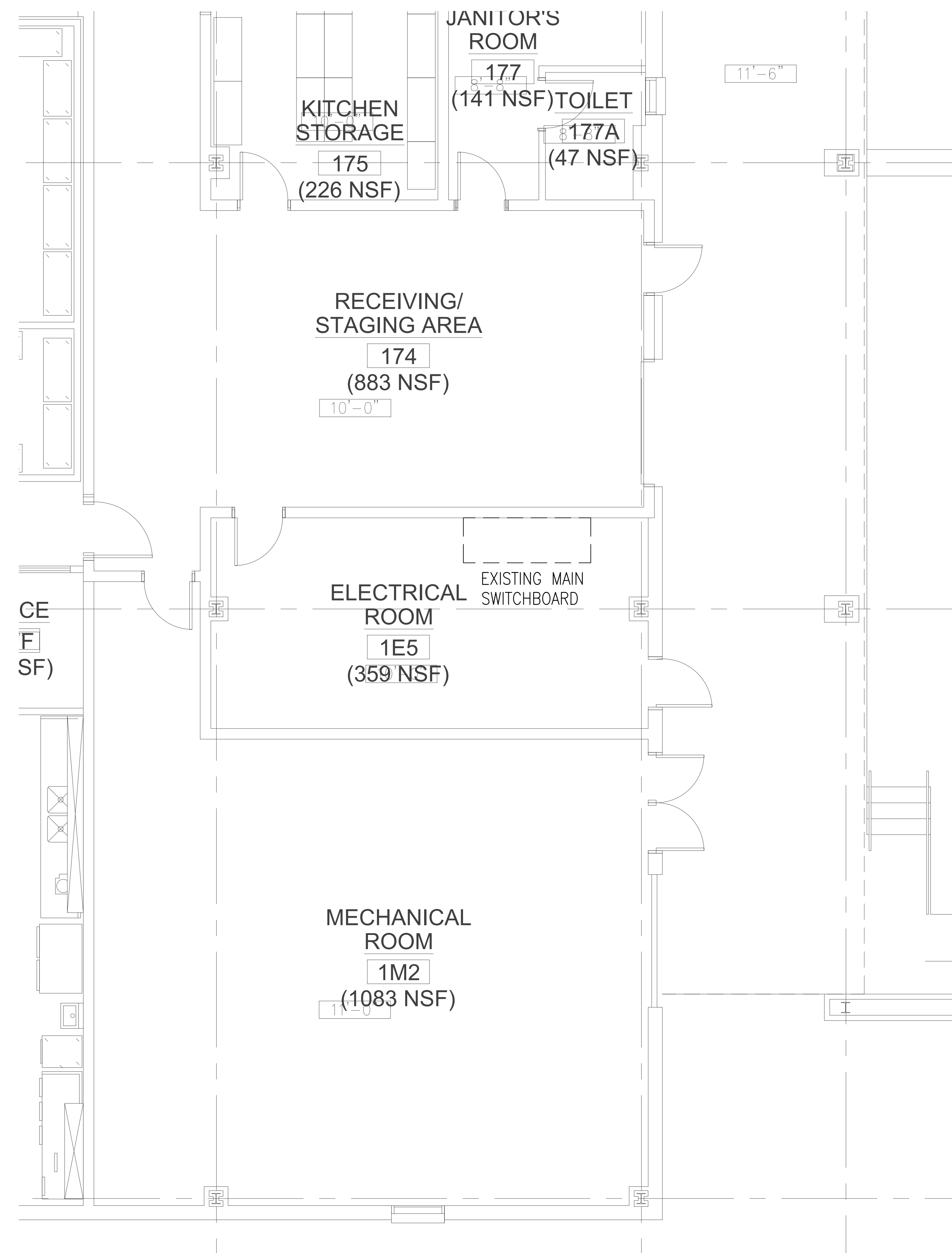
Drawn by: NM Proj. Mgr.: GA

Revisions

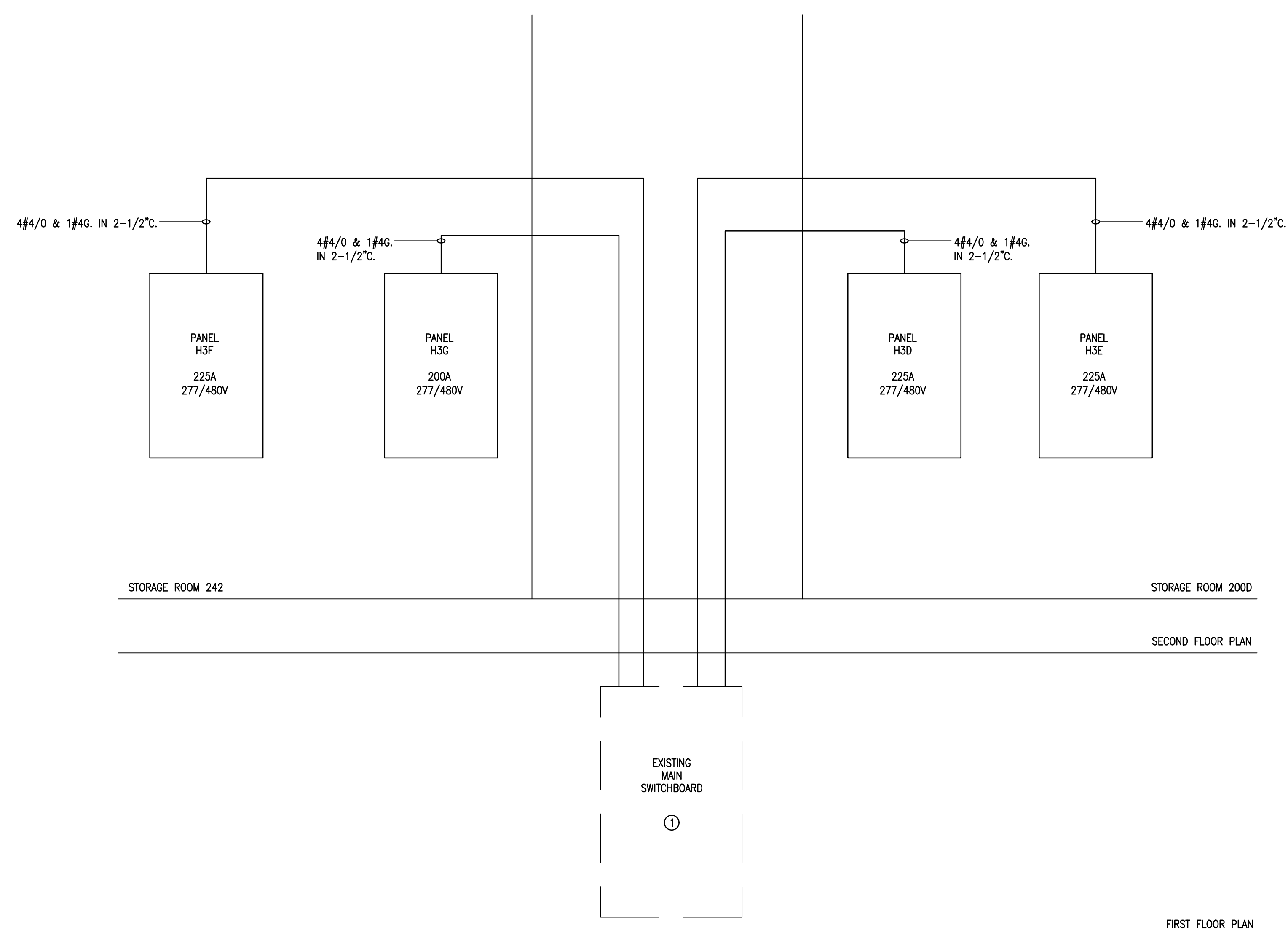
No.	Date	Description

**ELECTRICAL - ENLARGED
ELECTRICAL FIRST FLOOR
PLAN & RISER DIAGRAM**

E3.1



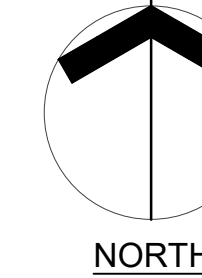
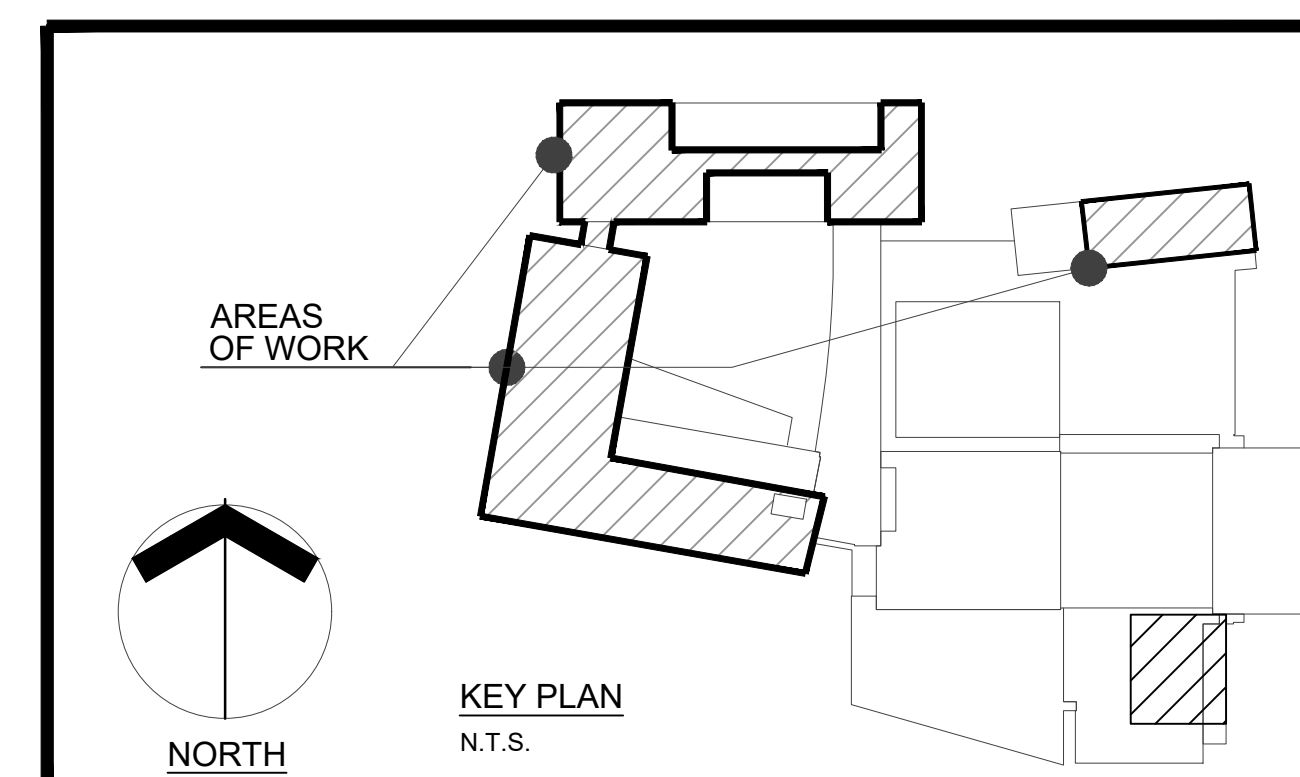
1
E5.1 **ENLARGED FIRST FLOOR ELECTRICAL PLAN**
SCALE: 1/4" = 1'-0"



2
E5.1 **POWER RISER DIAGRAM**
SCALE: NOT TO SCALE

POWER RISER DIAGRAM:
① PROVIDE (3) 225A/3P CIRCUIT BREAKERS AND (1) 200A/3P CIRCUIT BREAKER.

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



KEY PLAN
N.T.S.