

# ROOFTOP UNIT REPLACEMENT at QUIDNESSETT ELEMENTARY SCHOOL

166 Mark Drive, North Kingstown, Rhode Island 02852



North Kingstown Public School Department  
100 Romano Vineyard Way, Suite 120, North Kingstown, RI

Bid Number 2022-09

CONSTRUCTION DOCUMENTS

OCTOBER 15, 2021

## Edward Rowse ARCHITECTS

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Suite 300, 2nd Floor Fax (401) 331-9270  
East Providence, RI 02914

## PARE CORPORATION

STRUCTURAL AND CIVIL ENGINEERS  
Lincoln, Rhode Island

## BUILDING ENGINEERING RESOURCES, INC.

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

## KEOUGH CONSTRUCTION MANAGEMENT

OWNERS PROJECT MANAGER  
East Providence, Rhode Island

## CONSULTING ENGINEERING SERVICES

COMMISSIONING AGENTS  
Middletown, Connecticut

### LIST OF DRAWINGS

TITLE SHEET	1 OF 16
61.0 OVERALL SITE PLAN, ABBREVIATIONS, LEGENDS AND NOTES	2 OF 16
<b>STRUCTURAL</b>	
51.00 STRUCTURAL NOTES	3 OF 16
52.00 STRUCTURAL ROOF FRAMING PLAN	4 OF 16
53.00 STRUCTURAL JOIST RETROFIT DETAILS	5 OF 16
54.00 STRUCTURAL SECTIONS AND DETAILS	6 OF 16
<b>ARCHITECTURAL</b>	
A1.0 OVERALL FLOOR PLAN	7 OF 16
A1.1 OVERALL ROOF PLAN AND ROOF DETAILS	8 OF 16
A2.0 PARTIAL LARGE SCALE FLOOR PLAN	9 OF 16
A2.1 PARTIAL LARGE SCALE REFLECTED CEILING PLAN	10 OF 16
A2.2 PARTIAL LARGE SCALE ROOF PLAN	11 OF 16
<b>MECHANICAL</b>	
M0.1 MECHANICAL - LEGENDS, NOTES, SCHEDULES AND DETAILS	12 OF 16
M1.1 MECHANICAL - DEMOLITION ROOF PLAN	13 OF 16
M2.0 MECHANICAL - RENOVATION FLOOR PLAN	14 OF 16
M2.1 MECHANICAL - RENOVATION ROOF PLAN	15 OF 16
<b>ELECTRICAL</b>	
E1.0 ELECTRICAL - LEGEND AND POWER FLOOR PLAN	16 OF 16

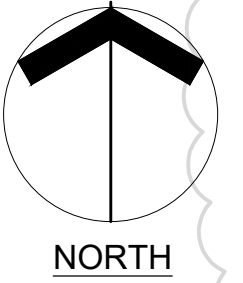


LIST OF STANDARD ABBREVIATIONS

Table listing standard abbreviations for architectural elements such as A/C, ACT, AFF, ALT, ALUM, and others, with their corresponding full names.

LEGEND

Legend table defining symbols for various construction elements like WALL SECTION, BUILDING SECTION, DETAIL, INTERIOR ELEVATION, MASONRY CAVITY WALL, CMU WALL, etc.



ROOFTOP UNIT REPLACEMENTS

QUIDNESSETT ELEMENTARY SCHOOL



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400 Massachusetts Avenue, Suite 300, Second Floor
22 Hampshire Street, Suite 105, First Floor

GENERAL NOTES

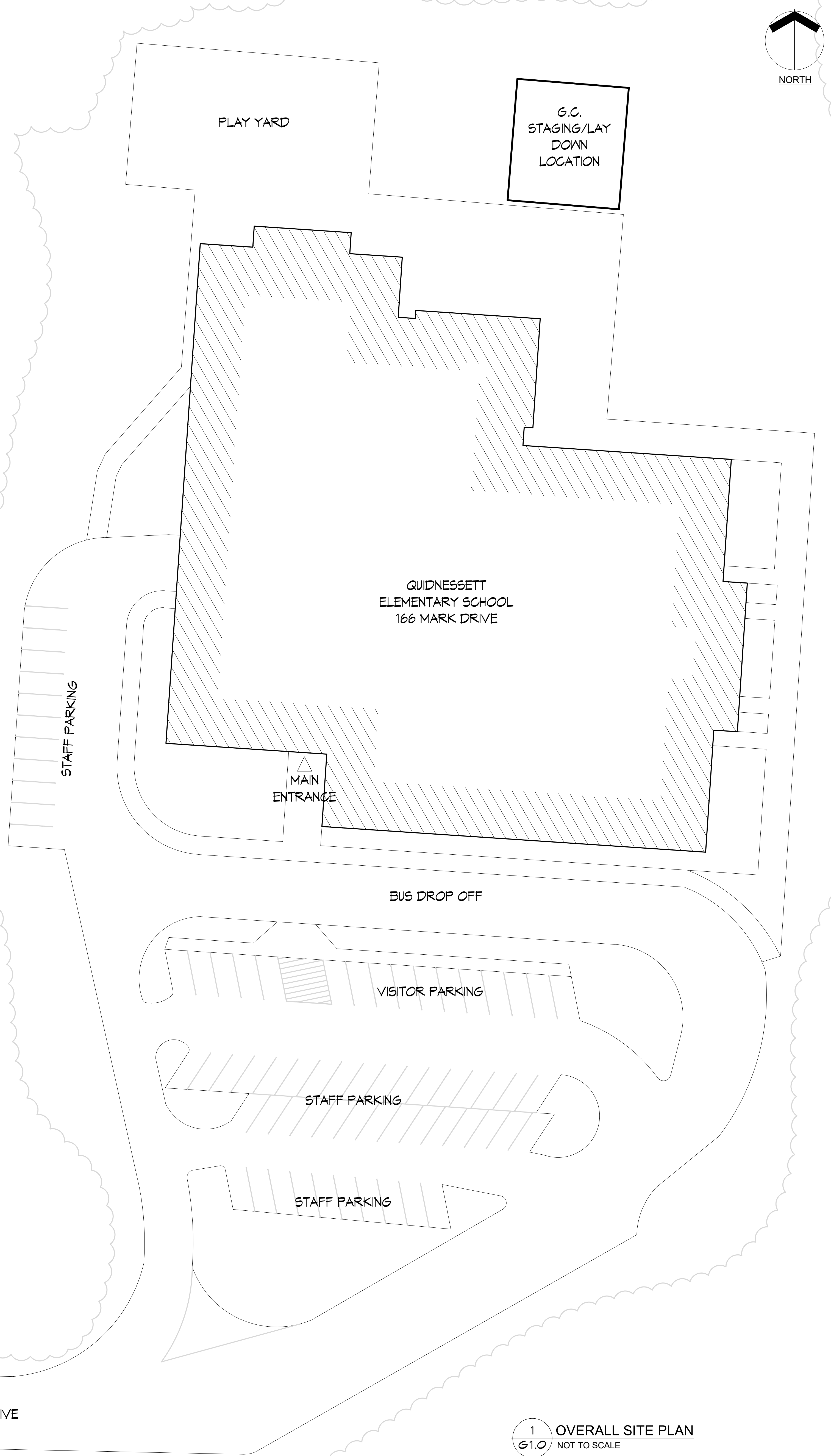
- List of general notes regarding construction conditions, site visit requirements, and safety protocols.

GENERAL DEMOLITION NOTES:

- Notes 1-11 detailing demolition procedures, safety, and material handling.

SPECIFIC DEMOLITION / CONSTRUCTION NOTES:

- Notes 1-10 detailing specific demolition and construction tasks for the project.



OVERALL SITE PLAN, ABBREVIATIONS, LEGEND AND NOTES

Date: OCTOBER 15, 2021
Drawn by: DLE Proj. Mgr.: JMP
Revisions table with columns for No., Date, and Description.



**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, 2019 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**

<b>GENERAL:</b>	
BUILDING RISK CATEGORY	III
FROST DEPTH	3'-4"
<b>2. ROOF LIVE LOADS (SNOW):</b>	
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
<b>3. WIND LOADS:</b>	
IMPORTANCE FACTOR	1.0
ULTIMATE WIND DESIGN SPEED (Vult)	147 mph
NOMINAL DESIGN WIND SPEED (Vasd)	114 mph
EXPOSURE CATEGORY	C
ENCLOSED BUILDING (Gcpi)	+/-0.18
<b>4. EARTHQUAKE LOADS:</b>	
IMPORTANCE FACTOR	1.1
MAPPED SPECTRAL RESPONSE ACCELERATIONS (Ss, Si)	0.167, 0.059
SITE CLASS	D
DESIGN SPECTRAL RESPONSE COEFFICIENTS (Sds, Sdi)	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 (AND COMPOSITE DECK INSTALLED ON ROOF):  
SUPPORTS: 5/8" PUDDLE 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) GIRDER RETROFIT COVER PLATE	ASTM A529 GR. 50	Fy=50 KSI
D) STRUCTURAL TUBING	ASTM A500, GR. B	Fy=46 KSI
E) HIGH STRENGTH BOLTS	ASTM F3125 (GR. A325 TYPE I)	Fy=92 KSI
F) CAST-IN-PLACE ANCHOR RODS	F1554 (GRADE 36)	Fy=36 KSI
G) HEADED STUDS	A108 GR. 50	Fy=50 KSI
H) 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.
- SHARED 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
CFMF	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
CHU	CONCRETE MASONRY UNIT	NTS	NOT TO SCALE
CJ	CONTROL JOINT	O.C.	ON CENTER
CL	CENTER LINE	R & D	REMOVE AND DISPOSE
CONST. JT.	CONSTRUCTION JOINT	REINF.	REINFORCING
CONT.	CONTINUOUS	SJ	SAWN JOINT
DIA	DIAMETER	TOC	TOP OF CONCRETE
DWL'S	DOWELS	TOP	TOP OF FOOTING
DWG	DRAWING	TOW	TOP OF WALL
EA	EACH	TSL	TOP OF SLAB
E.F.	EACH FACE	TST	TOP OF STEEL
E.W.	EACH WAY	TR.	TYPICAL
EL	ELEVATION	U.N.O.	UNLESS NOTED OTHERWISE
EQ	EQUAL	V.I.F.	VERIFY IN FIELD
FFE	FINISH FLOOR ELEVATION	WWF	WELDED WIRE FABRIC
FND	FOUNDATION	W	WITH
FTG	FOOTING	W.P.	WORKING POINT
GA	GAUGE		
GALV.	GALVANIZED		
HORIZ.	HORIZONTAL		
HSS	HOLLOW STRUCTURAL SHAPE		
I.F.	INSIDE FACE		

**ROOFTOP UNIT REPLACEMENTS**

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**GENERAL NOTES**

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Date: OCTOBER 15, 2021

Drawn by: MS Proj. Mgr.: MR

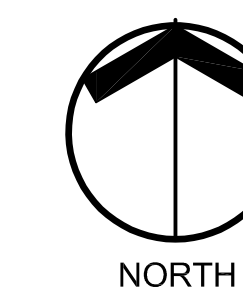
Revisions

No.	Date	Description

**STRUCTURAL NOTES**

**\$1.00**





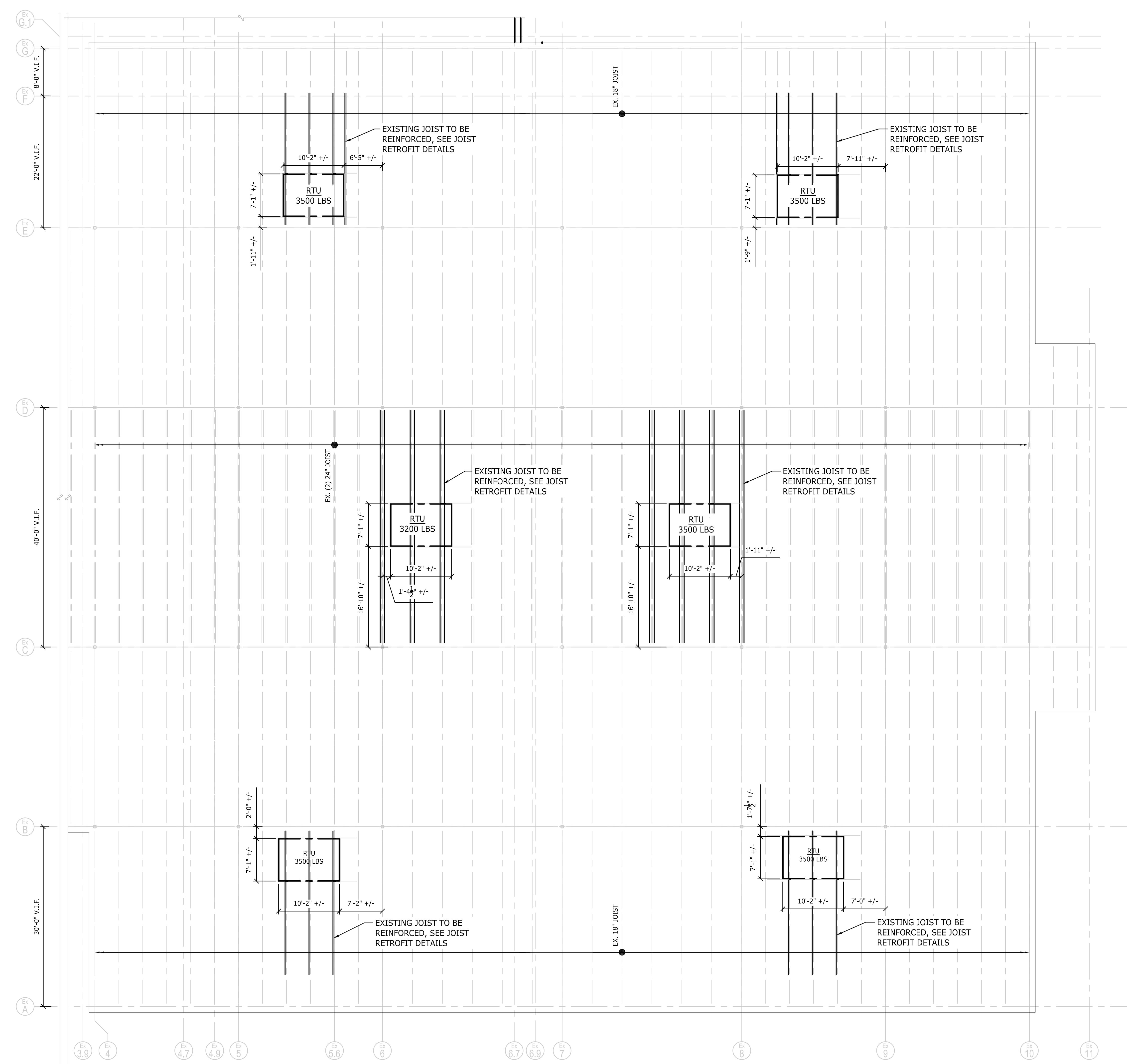
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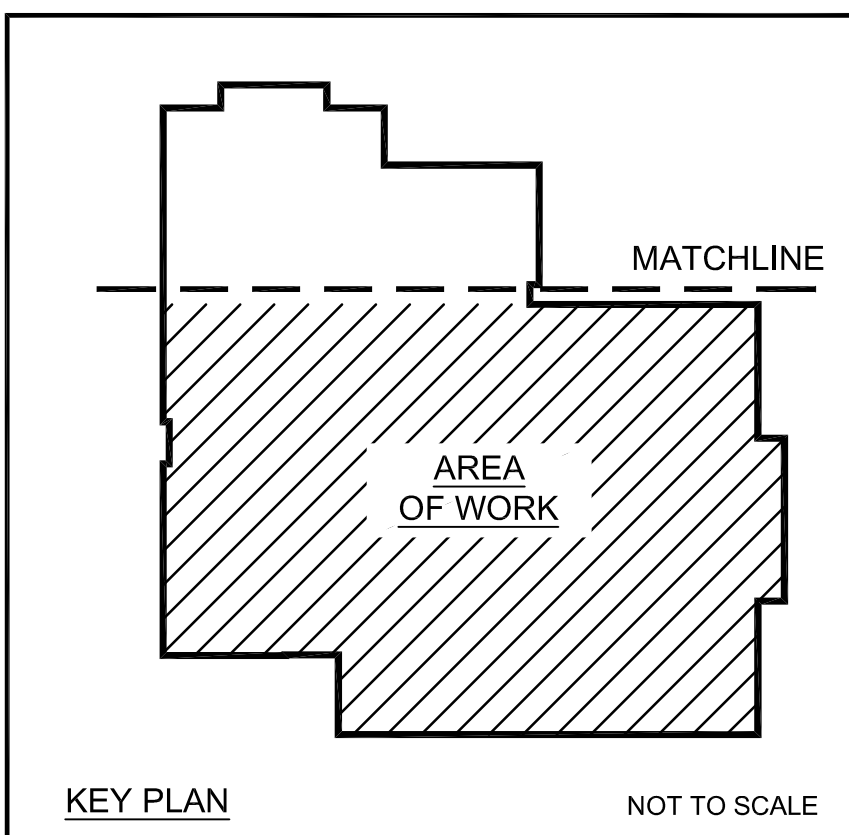
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**ROOF FRAMING PLAN**  
 SCALE: 1/8"=1'-0"

ALL MEMBERS SHALL BE TEMPORARILY SHORED PRIOR TO RETROFITTING. RETROFITTS SHALL BE INSTALLED BEFORE NEW UNITS ARE INSTALLED.

- NOTES:**
- REFER TO EXISTING JOIST ELEVATIONS FOR LIMITS OF CHORD RETROFIT ON DRAWING S3.00
  - ROD REINFORCING SHALL HAVE A MINIMUM YIELD STRENGTH (Fy) OF 50 ksi.



**STRUCTURAL ROOF FRAMING PLAN**

**S2.00**



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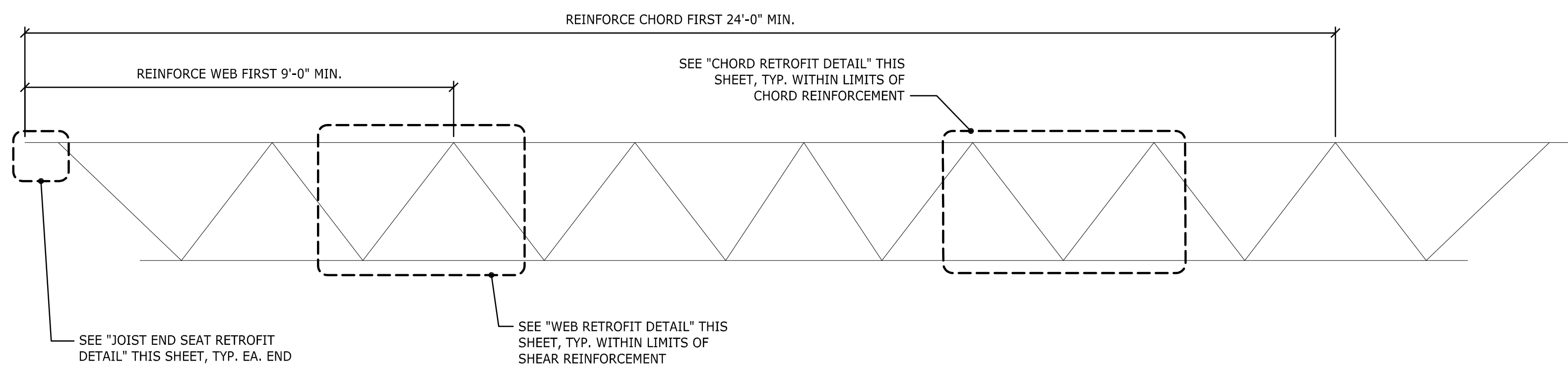
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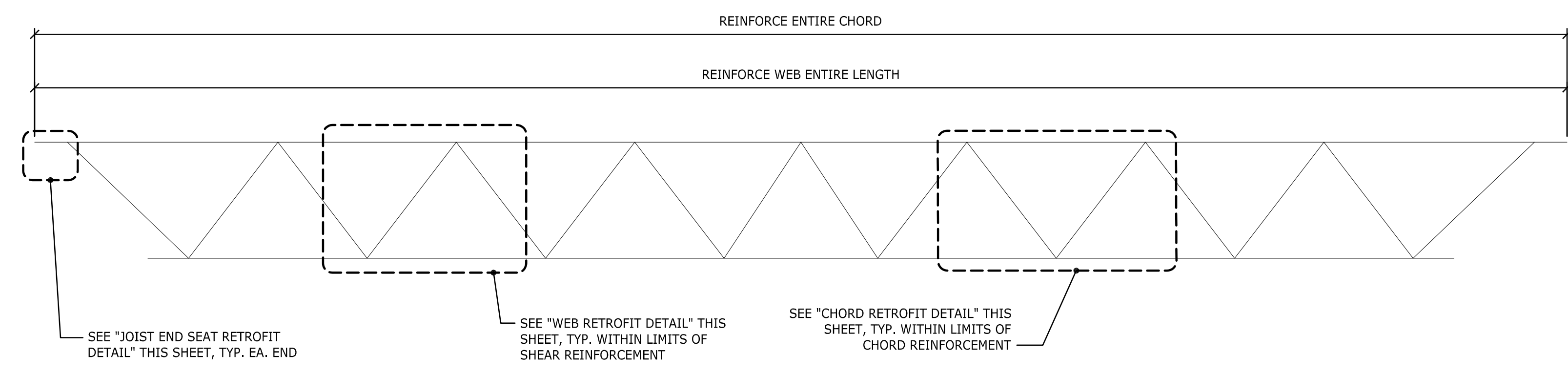
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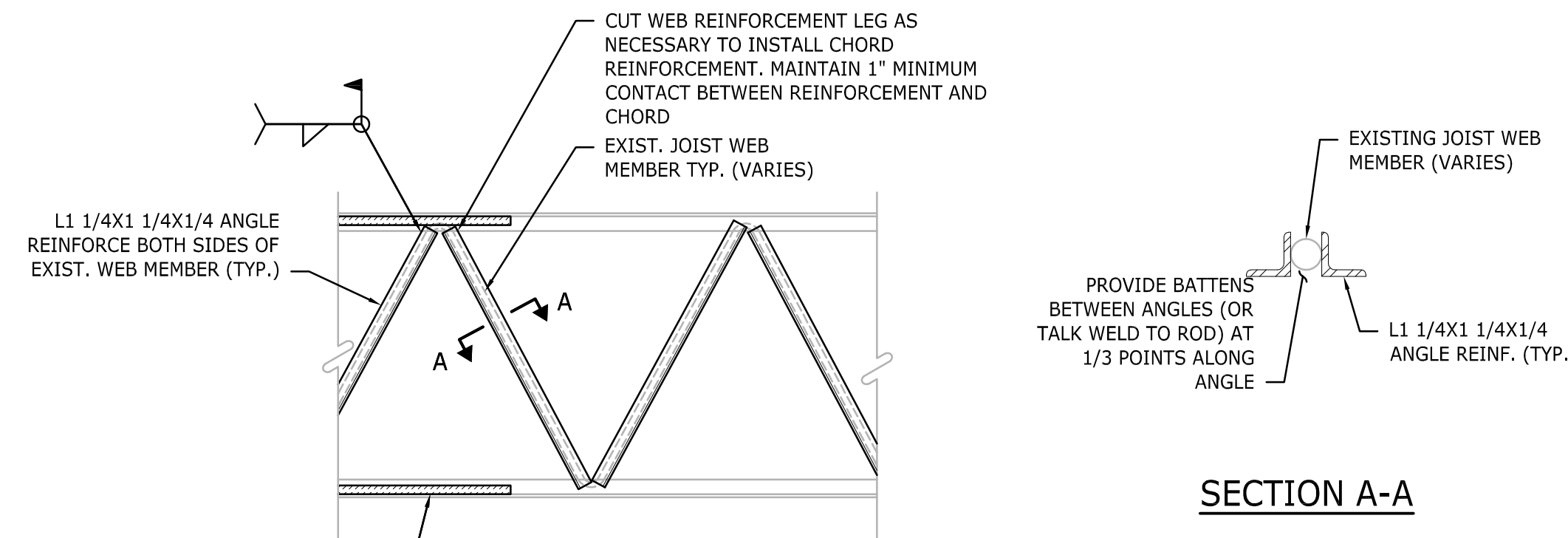
**EXISTING 18" JOIST ELEVATION**

NOT TO SCALE

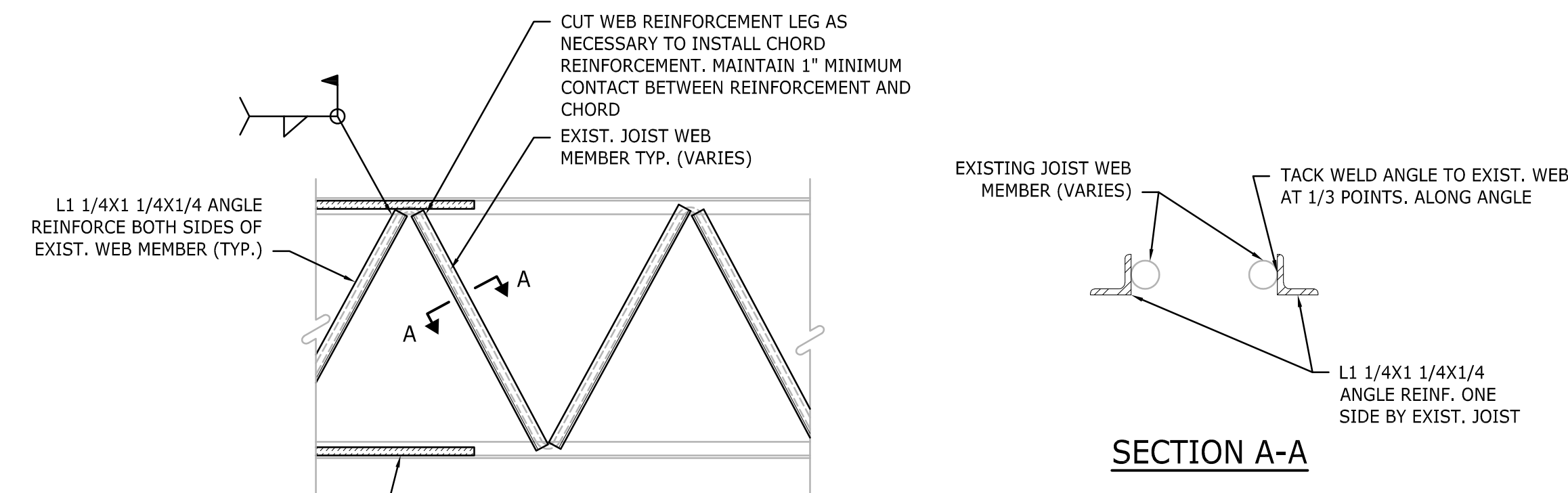


**EXISTING 24" JOIST ELEVATION**

NOT TO SCALE



**SECTION A-A**



**SECTION A-A**

**NOTES:**

- REFER TO EXISTING JOIST ELEVATIONS FOR LIMITS OF WEB SHEAR RETROFIT.
- ANGLE REINFORCING SHALL HAVE A MINIMUM YIELD STRENGTH (Fy) OF 36 ksi.

**WEB RETROFIT DETAILS**

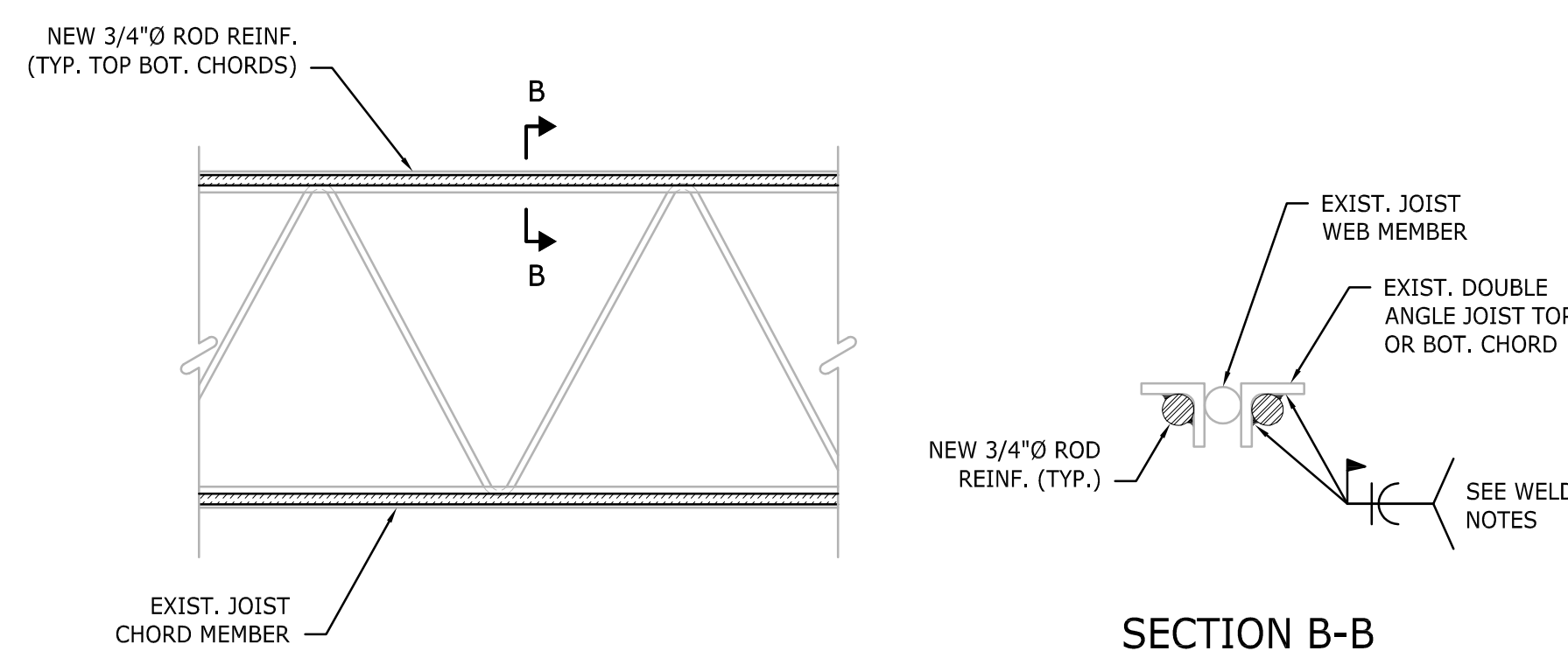
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**NOTES:**

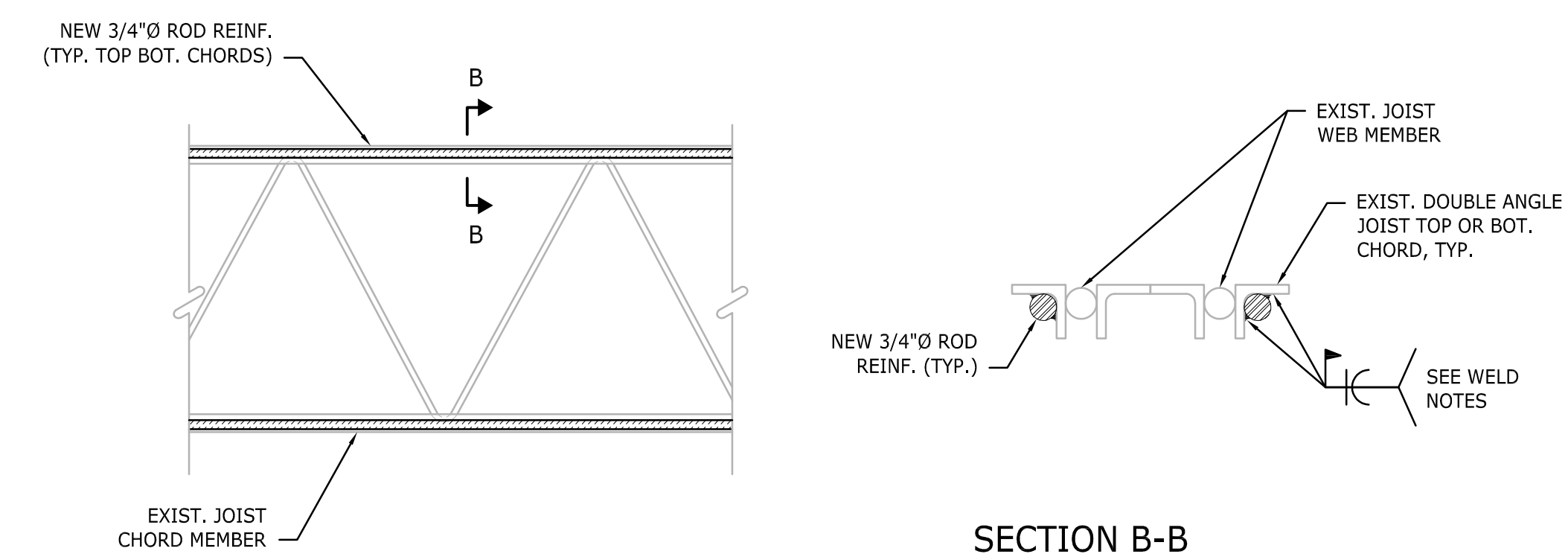
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**WEB RETROFIT DETAILS**

NOT TO SCALE



**SECTION B-B**



**SECTION B-B**

**WELD NOTES:**

- 2" MINIMUM WELD AT ALL PANEL POINTS (TOP & BOTTOM).
- STITCH WELD 2" @ MIDPOINT BETWEEN PANEL POINTS (TOP CHORD ONLY).
- 6" LG., CONT. @ EA. END OF ROD.

**NOTES:**

- REFER TO EXISTING JOIST ELEVATIONS FOR LIMITS OF CHORD RETROFIT.
- ROD REINFORCING SHALL HAVE A MINIMUM YIELD STRENGTH (Fy) OF 50 ksi.

**CHORD RETROFIT DETAILS**

NOT TO SCALE

**WELD NOTES:**

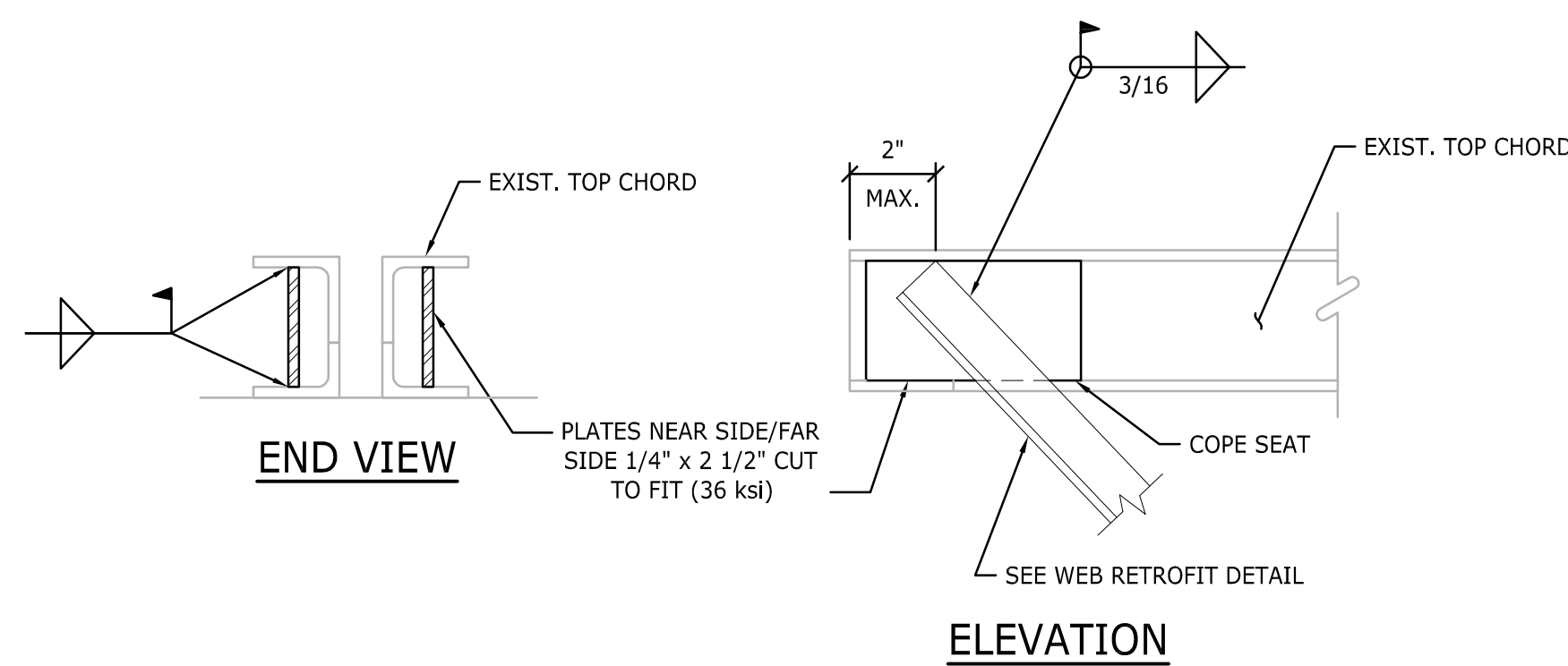
- 2" MINIMUM WELD AT ALL PANEL POINTS (TOP & BOTTOM).
- STITCH WELD 2" @ MIDPOINT BETWEEN PANEL POINTS (TOP CHORD ONLY).
- 6" LG., CONT. @ EA. END OF ROD.

**NOTES:**

- REFER TO EXISTING JOIST ELEVATIONS FOR LIMITS OF CHORD RETROFIT.
- ROD REINFORCING SHALL HAVE A MINIMUM YIELD STRENGTH (Fy) OF 50 ksi.

**CHORD RETROFIT DETAILS**

NOT TO SCALE

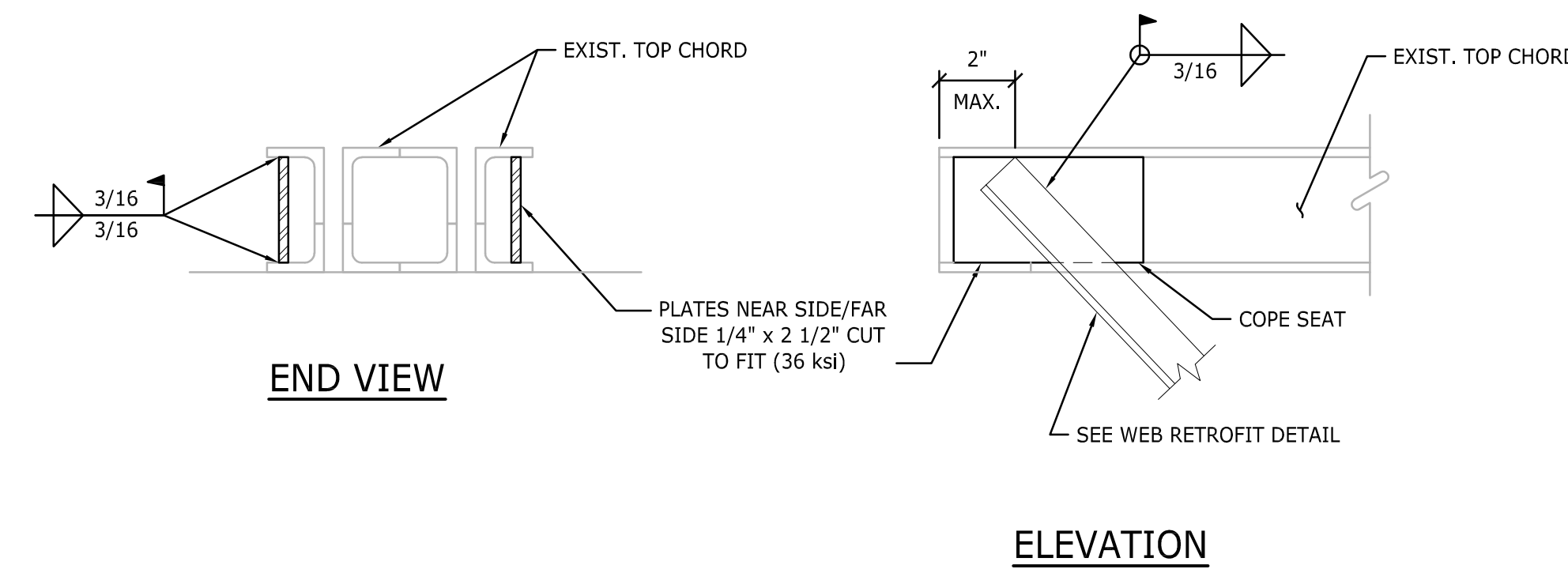


**END VIEW**

**ELEVATION**

**JOIST END SEAT RETROFIT DETAIL**

NOT TO SCALE

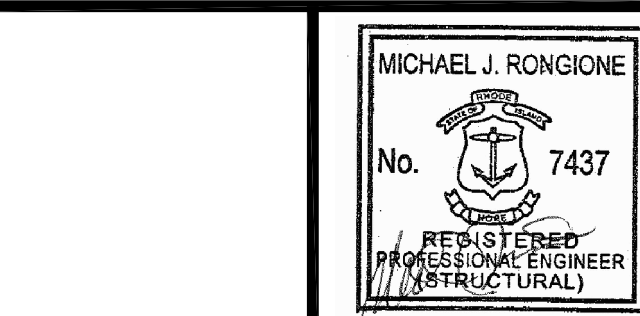


**END VIEW**

**ELEVATION**

**JOIST END SEAT RETROFIT DETAIL**

NOT TO SCALE



Date: OCTOBER 15, 2021

Drawn by: MS Proj. Mgr.: MR

Revisions

No.	Date	Description

**STRUCTURAL JOIST RETROFIT DETAILS**

**S3.00**



**ROOFTOP UNIT REPLACEMENTS**

**QUIDNESSETT ELEMENTARY SCHOOL**  
166 Mark Drive, N. Kingstown, RI



North Kingstown School Department  
100 Romano Vineyard Way, Suite 120  
North Kingstown, Rhode Island

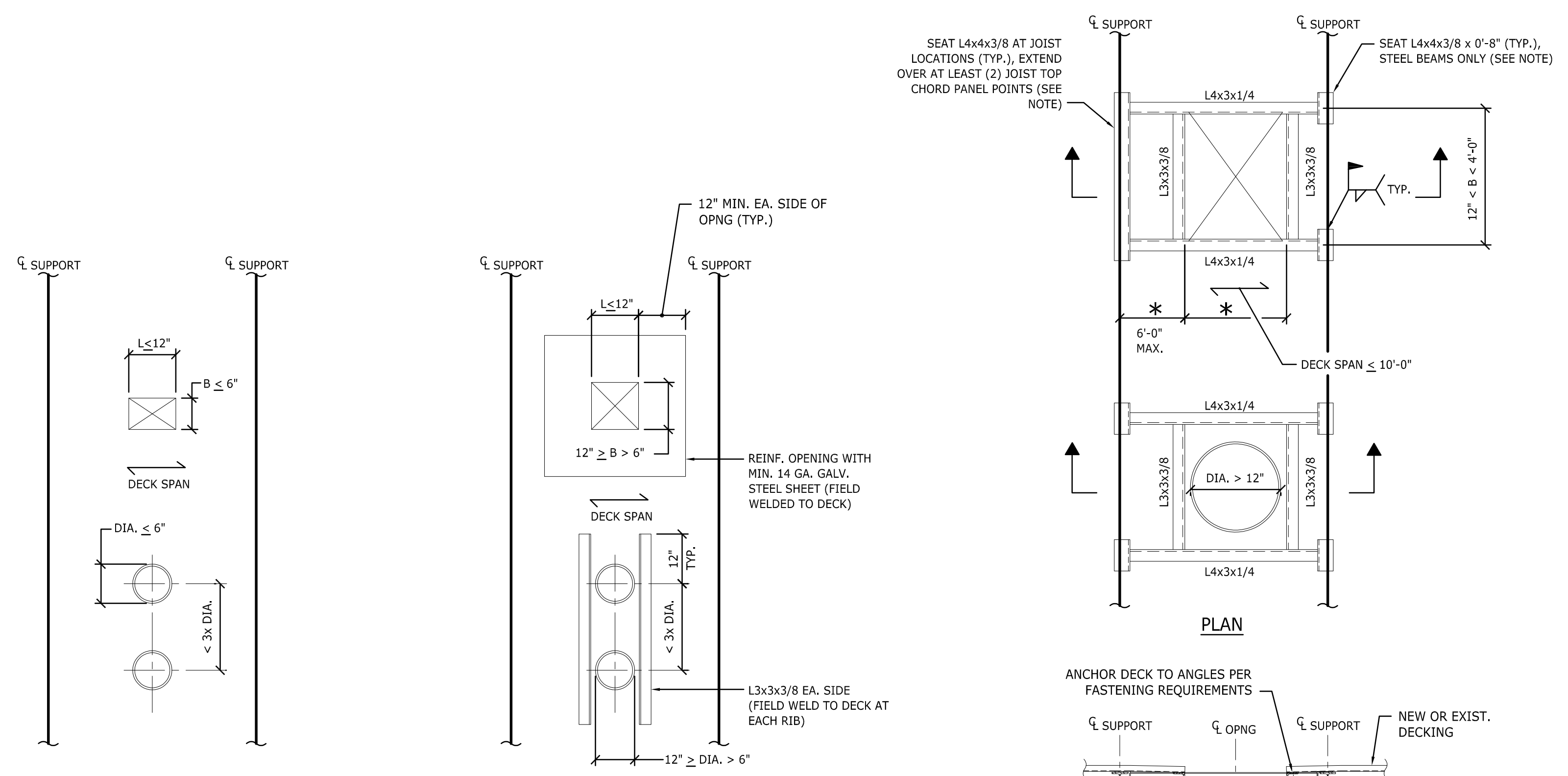
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**GENERAL NOTES**

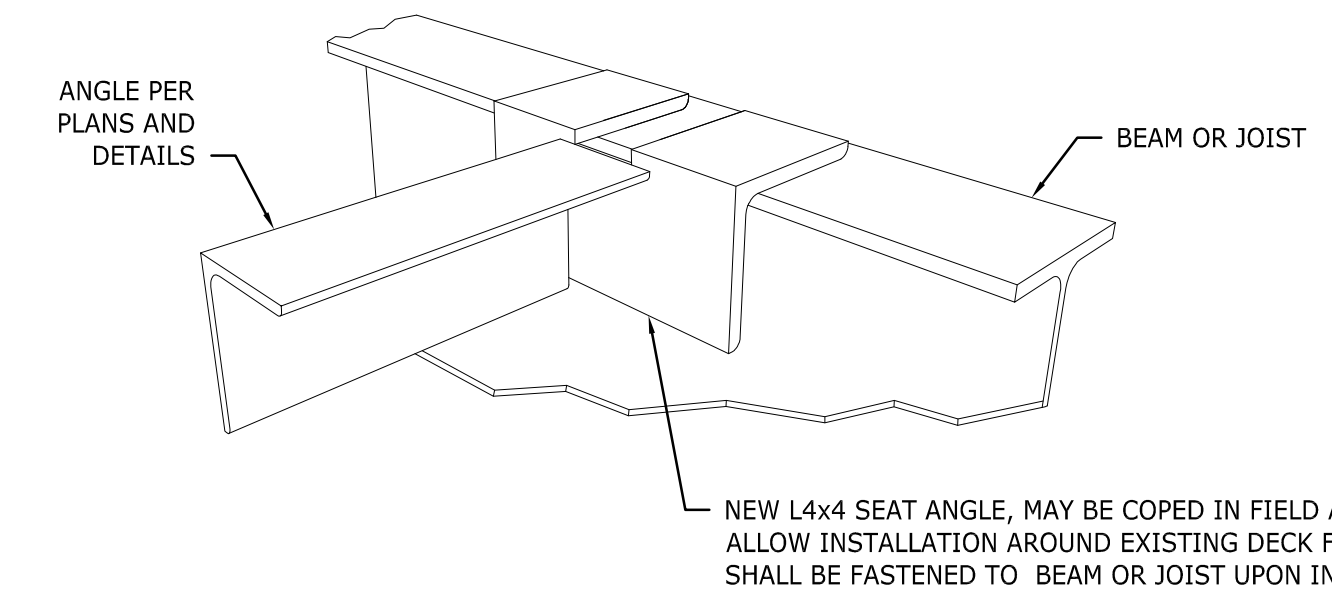
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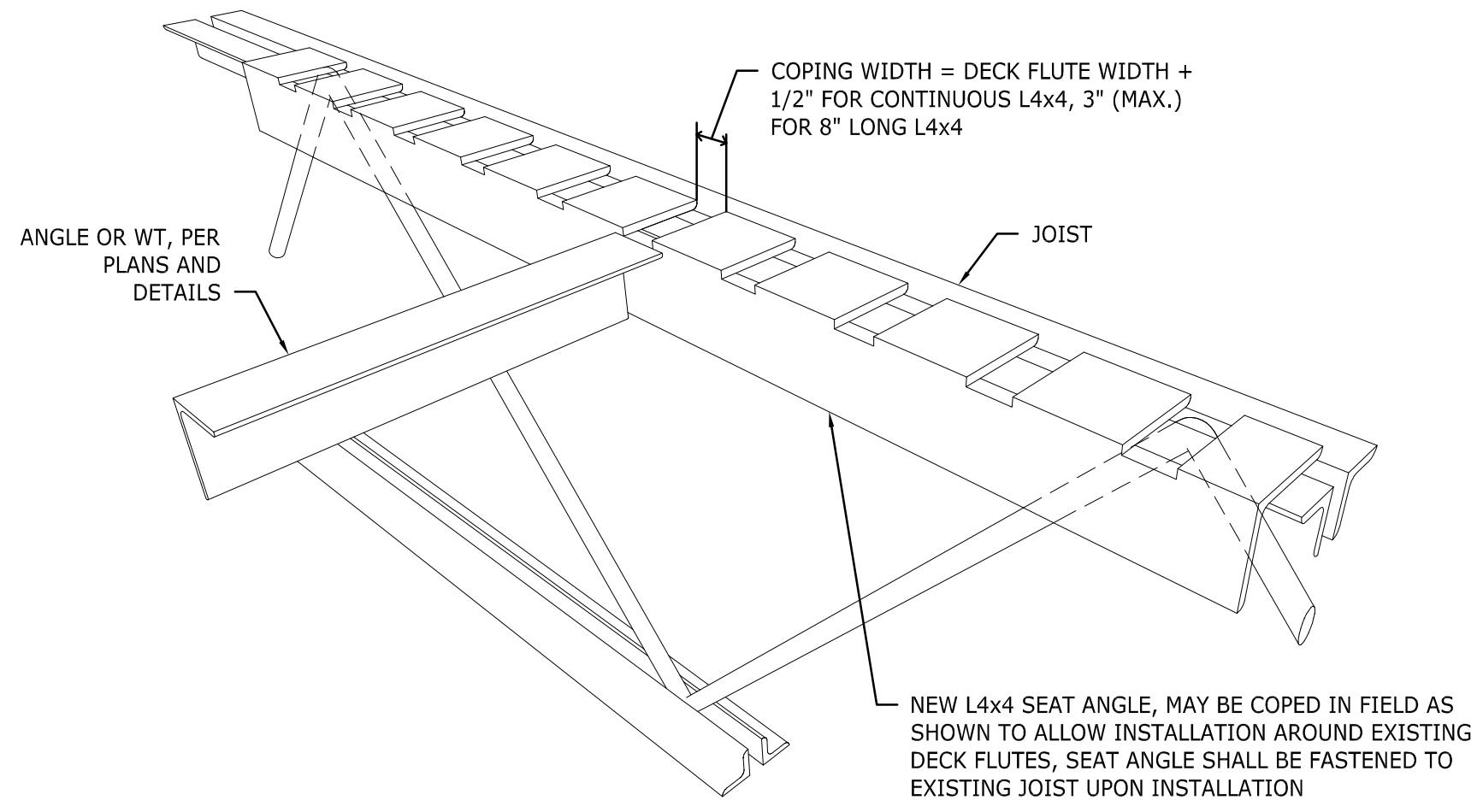
**TYPICAL OPENINGS IN ROOF**  
NOT TO SCALE

- GENERAL NOTES:**
- GC TO VERIFY EXISTING CONDITIONS OF ROOF OPENINGS TO DETERMINE IF NEW STEEL IS REQUIRED.
  - 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.

NOTE: REFER TO "SEAT ANGLE DETAIL" THIS SHEET FOR ALLOWABLE COPING AROUND EXISTING DECK FLUTES.



**SEAT ANGLE AT BEAM DETAIL**  
NOT TO SCALE

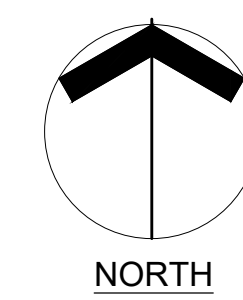


**SEAT ANGLE AT JOIST DETAIL**  
NOT TO SCALE

**STRUCTURAL SECTIONS AND DETAILS**

**S4.00**





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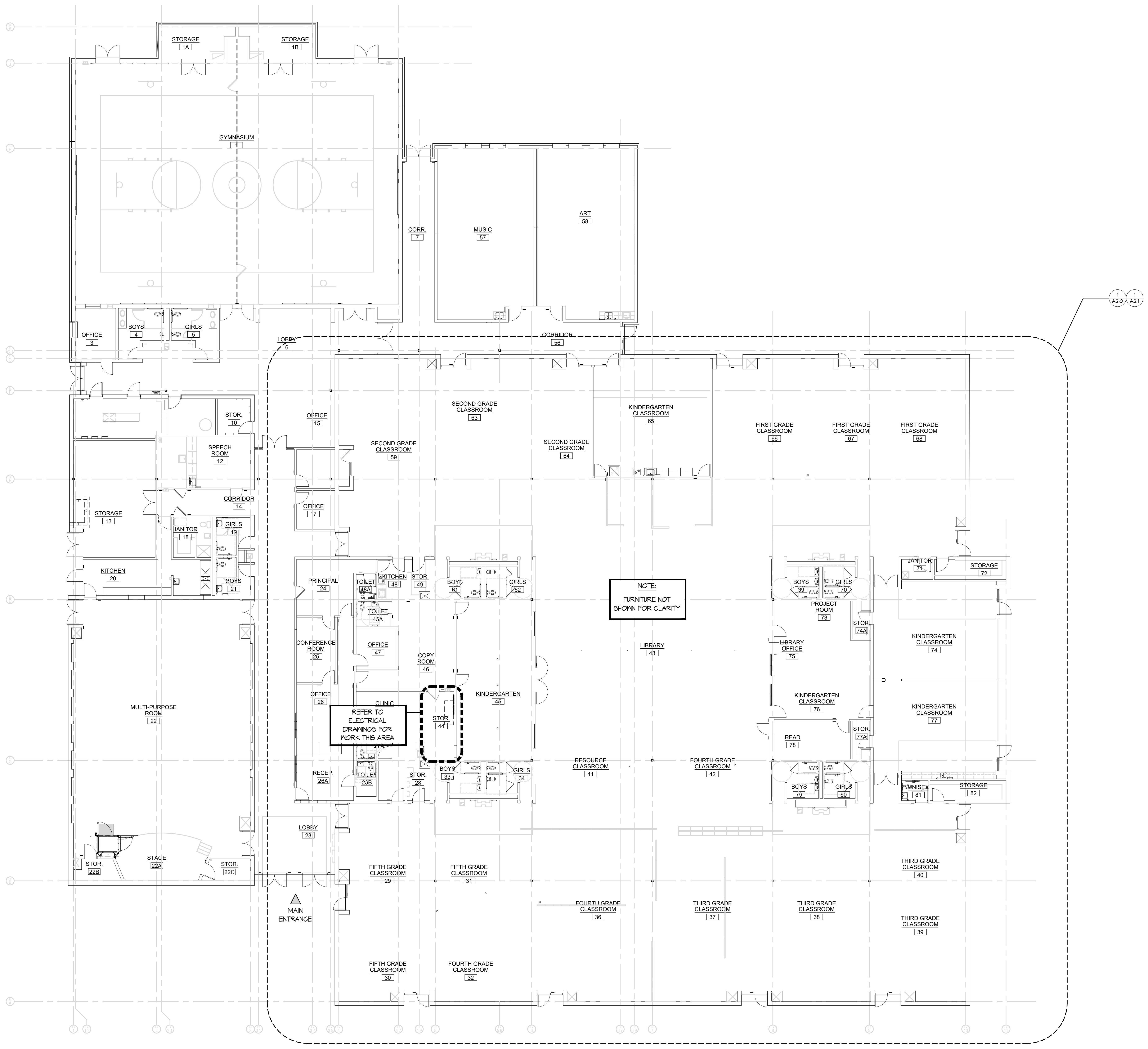
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1  
A2.0 A2.1

NOTE:  
FURNITURE NOT  
SHOWN FOR CLARITY

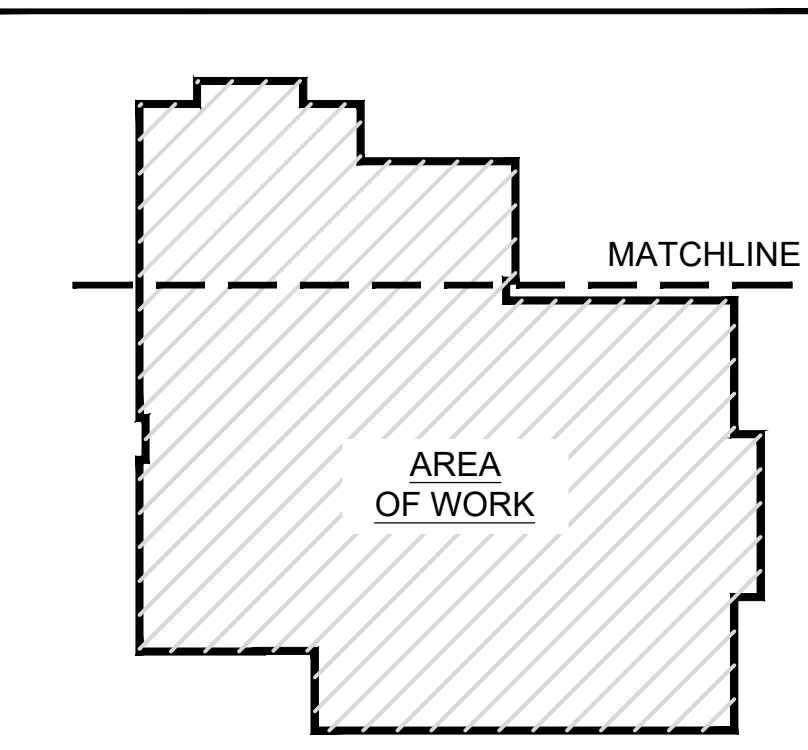
REFER TO  
ELECTRICAL  
DRAWINGS FOR  
WORK THIS AREA



Date: OCTOBER 15, 2021  
 Drawn by: DLE Proj. Mgr.: JMP  
 Revisions

No.	Date	Description

1 OVERALL FLOOR PLAN  
SCALE: 1" = 10'-0"

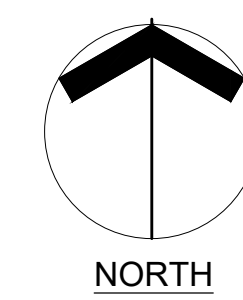


KEY PLAN NOT TO SCALE

#### OVERALL FLOOR PLAN

# A1.0





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166 Mark Drive, N. Kingstown, RI



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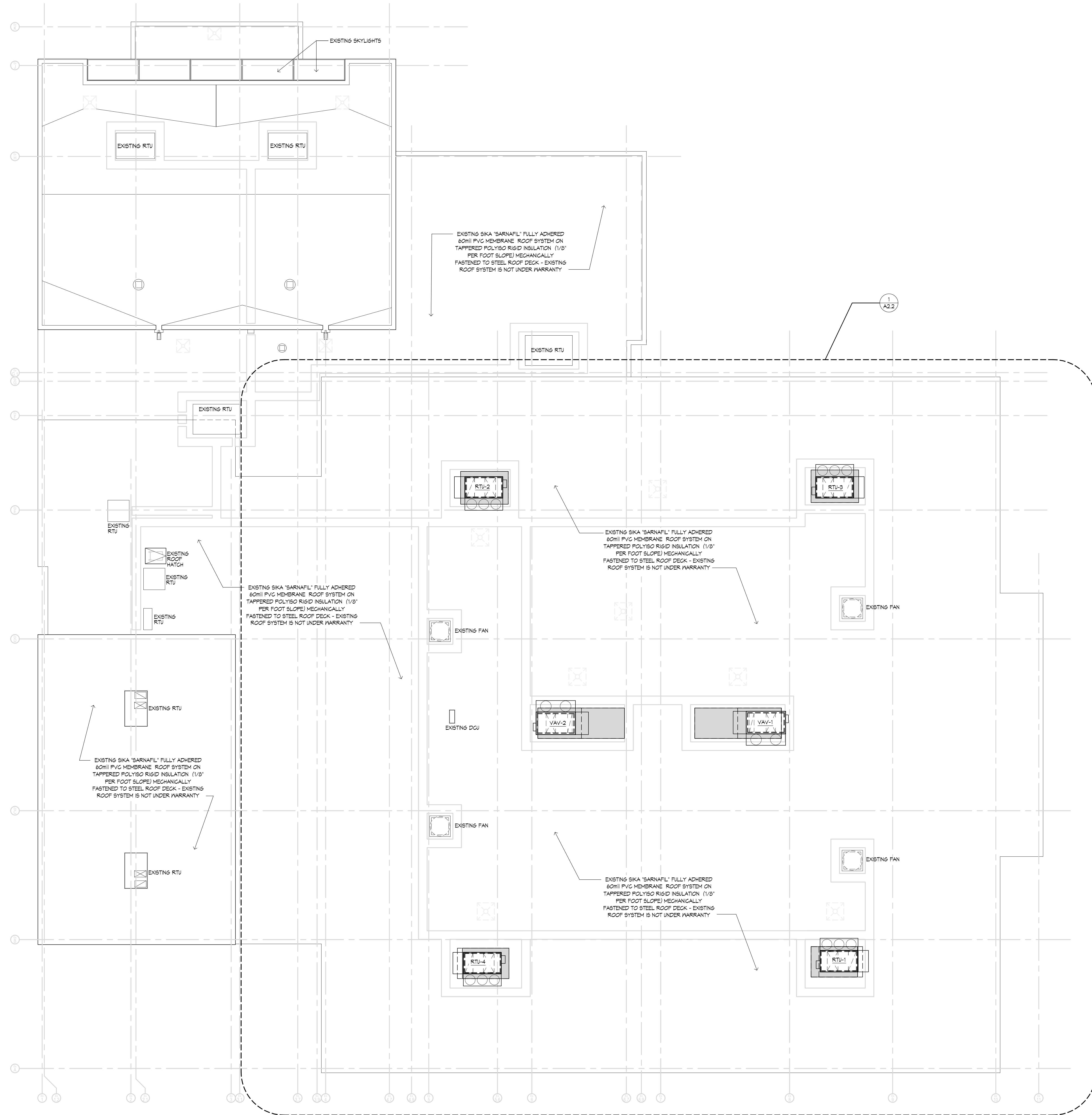
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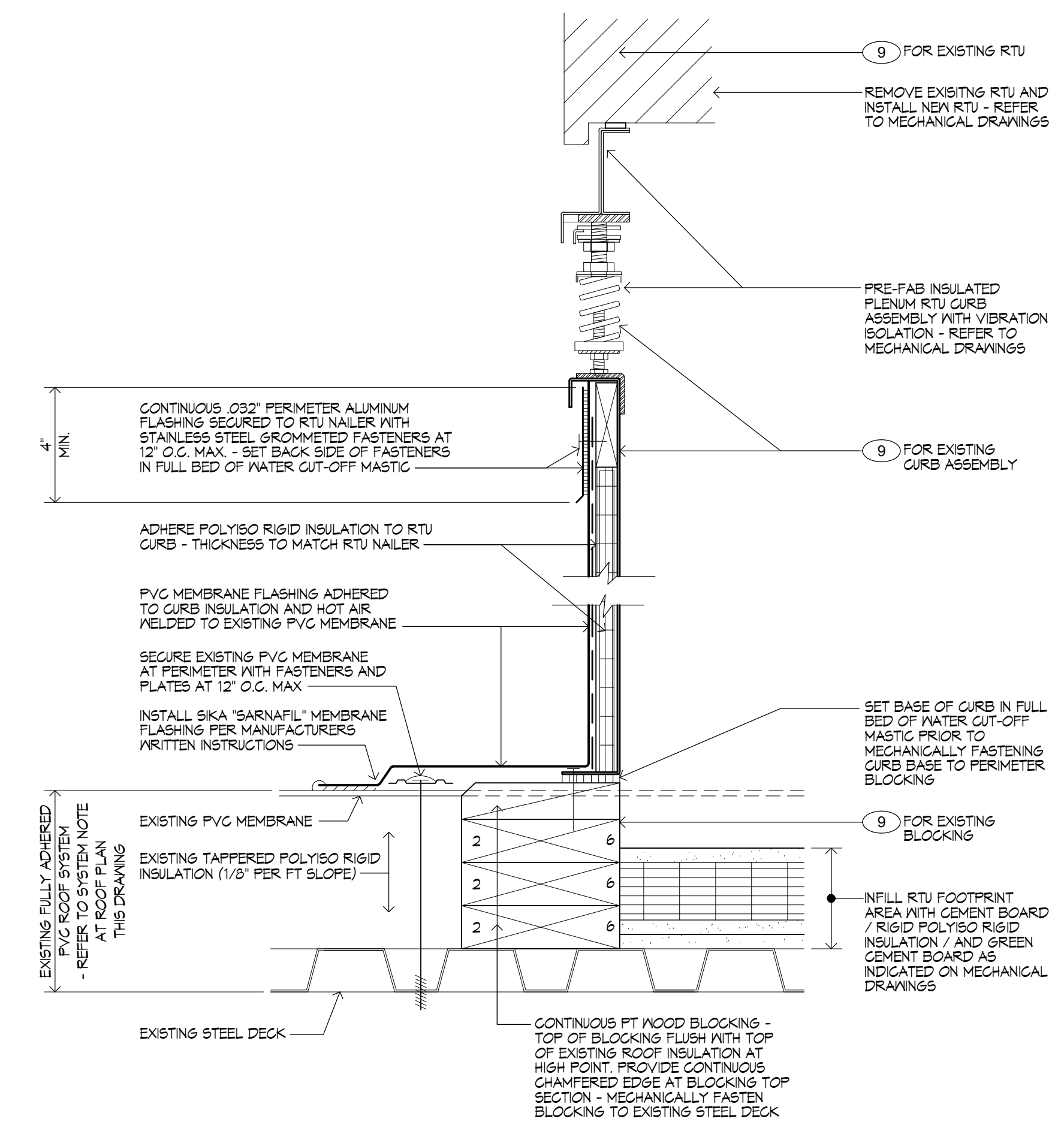
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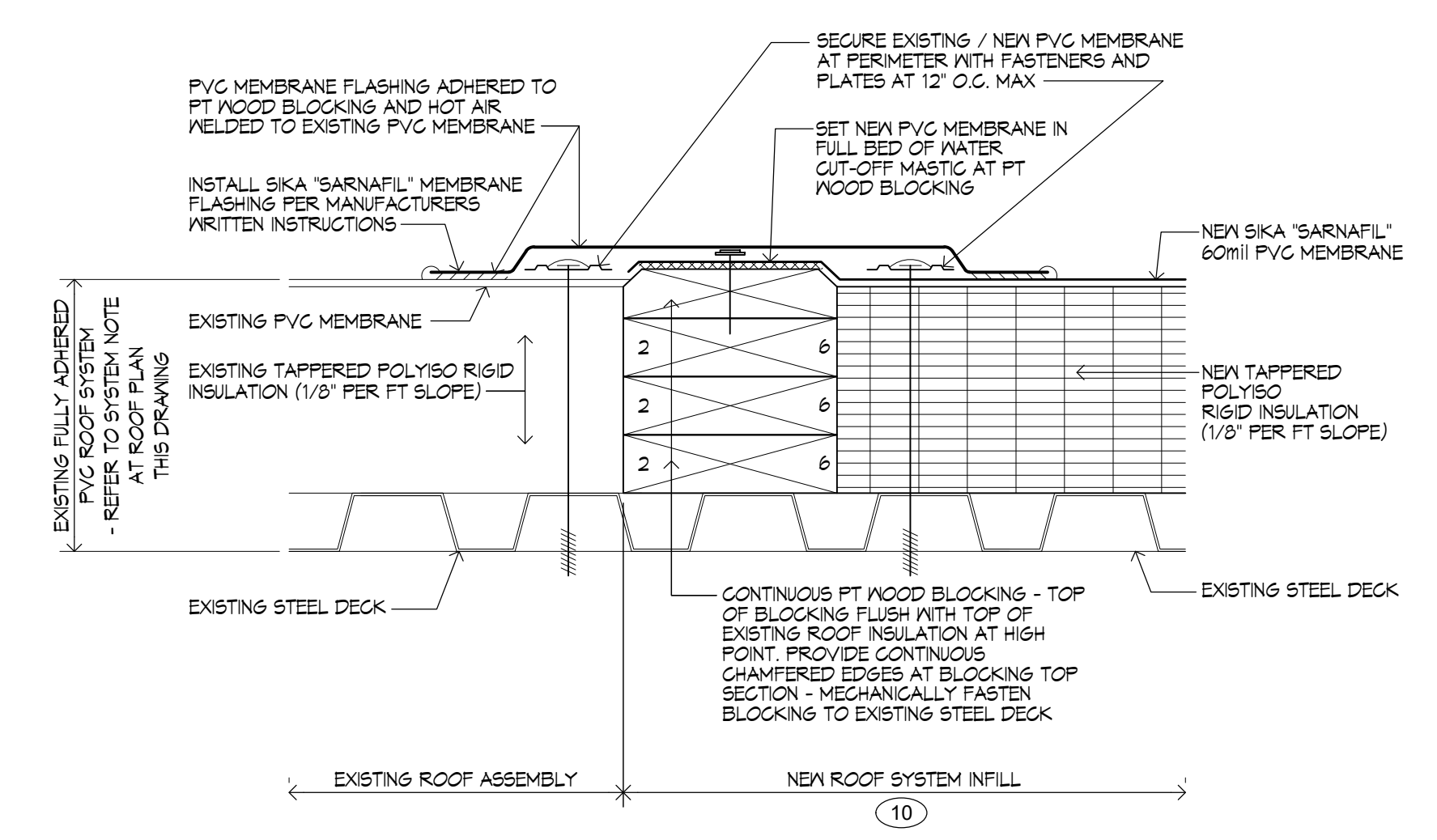
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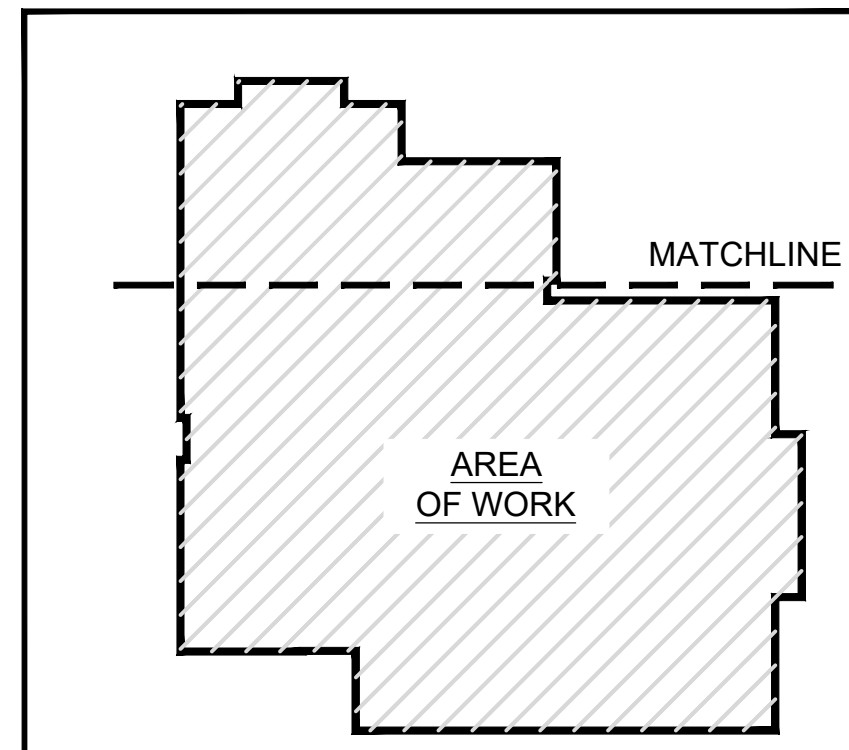
**1 OVERALL ROOF PLAN**  
A1.2 SCALE: 1" = 10'-0"



**2 RTU CURB DETAIL**  
A1.1 3" = 1'-0"



**3 ROOF INFILL DETAIL**  
A1.1 3" = 1'-0"



KEY PLAN NOT TO SCALE



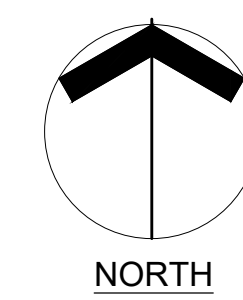
Date: OCTOBER 15, 2021  
Drawn by: DLE Proj. Mgr.: JMP

No.	Date	Description

### OVERALL ROOF PLAN AND ROOF DETAILS

# A1.1





# ROOFTOP UNIT REPLACEMENTS

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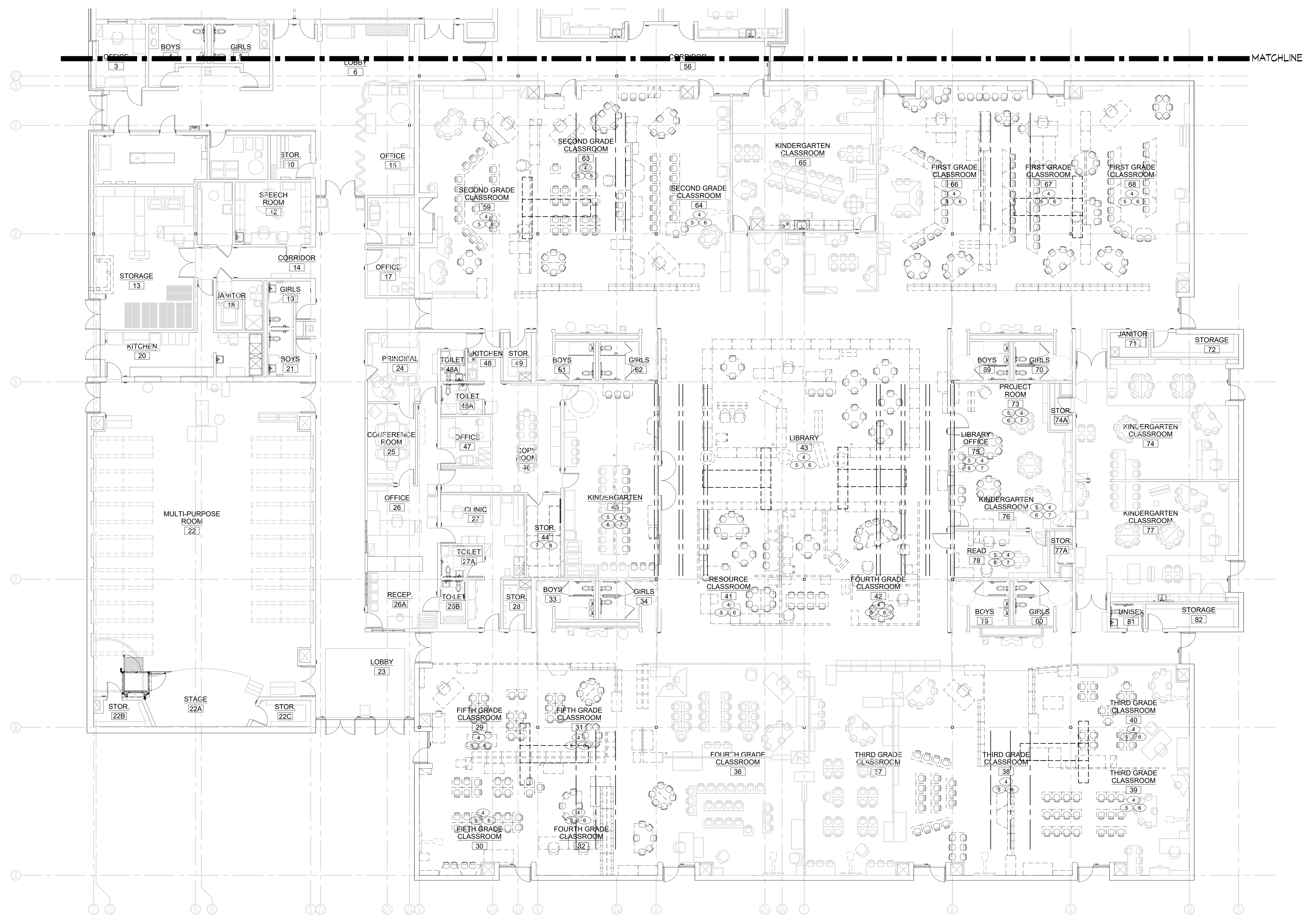


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Revisions

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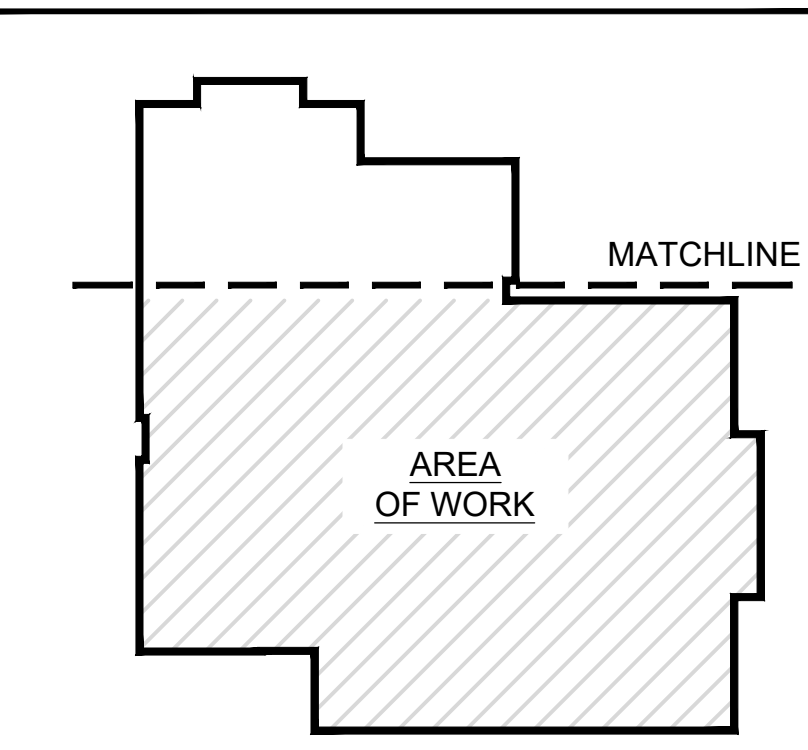
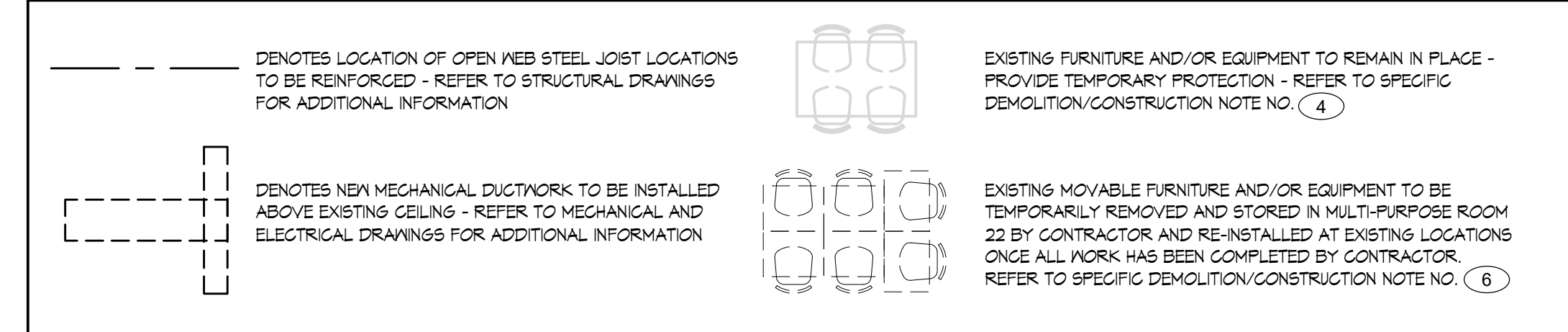
### PARTIAL LARGE SCALE FLOOR PLAN

# A2.0



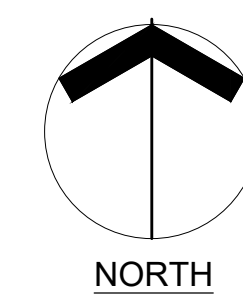
1 PARTIAL LARGE SCALE FLOOR PLAN  
A2.0 SCALE: 1/8" = 1'-0"

### LEGEND



KEY PLAN NOT TO SCALE





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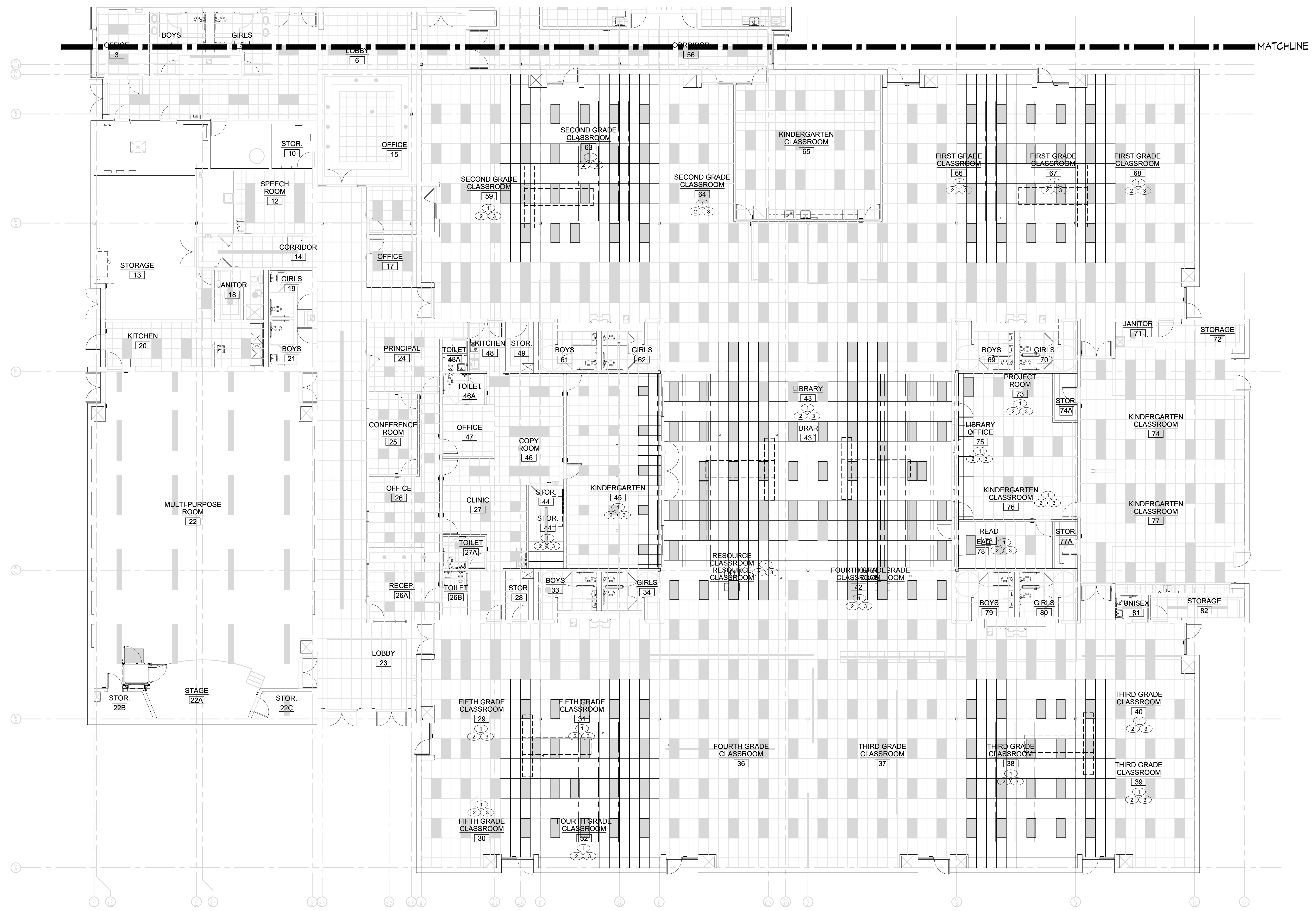


Date: OCTOBER 15, 2021  
Drawn by: DLE Proj. Mgr.: JMP  
Revisions

No.	Date	Description

### PARTIAL LARGE SCALE REFLECTED CEILING PLAN

# A2.1



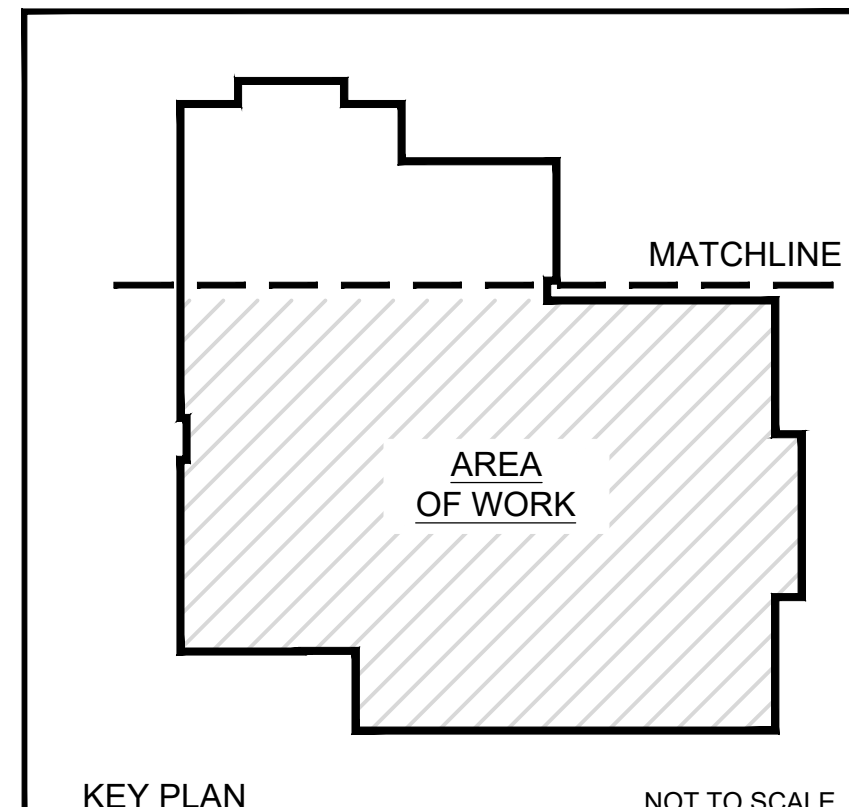
1 PARTIAL LARGE SCALE REFLECTED CEILING PLAN  
A2.1 SCALE: 1/8" = 1'-0"

#### CEILING LEGEND

	ACT-1 (2x2) EXISTING RE-INSTALLED / NEW ACOUSTICAL CEILING TILE ASSEMBLY - REFER TO THIS DRAWING, A2.1, SPECIFIC DEMO/CONSTRUCTION NOTES NO. 1, 2 AND 3, AND SPECIFICATION SECTION 09 51 13 'ACOUSTICAL PANEL CEILINGS FOR ADDITIONAL INFORMATION		EXISTING FULLY RECESSED LIGHT FIXTURE TO BE REMOVED, SALVAGED AND RE-INSTALLED
	ACT-2 (2x4) EXISTING ACOUSTICAL CEILING TILE ASSEMBLY - NO WORK		EXISTING FULLY RECESSED LIGHT FIXTURE TO REMAIN
	2X2		# SPECIFIC DEMOLITION / CONSTRUCTION NOTE
	2X4		X-XX' EXISTING CEILING HEIGHT
			MATCH LINE

#### LEGEND

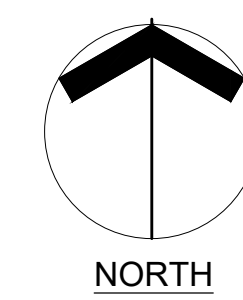
	INDICATES LOCATION OF OPEN WEB STEEL JOIST LOCATIONS TO BE REINFORCED - REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION		EXISTING FURNITURE AND/OR EQUIPMENT TO REMAIN IN PLACE - PROVIDE TEMPORARY PROTECTION - REFER TO SPECIFIC DEMOLITION/CONSTRUCTION NOTE NO. 4
	INDICATES NEXT MECHANICAL DUCTWORK TO BE INSTALLED ABOVE EXISTING CEILING - REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION		EXISTING MOVABLE FURNITURE AND/OR EQUIPMENT TO BE TEMPORARILY REMOVED AND STORED IN MULTI-PURPOSE ROOM 22 BY CONTRACTOR AND RE-INSTALLED AT EXISTING LOCATIONS ONCE ALL WORK HAS BEEN COMPLETED BY CONTRACTOR. REFER TO SPECIFIC DEMOLITION/CONSTRUCTION NOTE NO. 6



KEY PLAN

NOT TO SCALE





# ROOFTOP UNIT REPLACEMENTS

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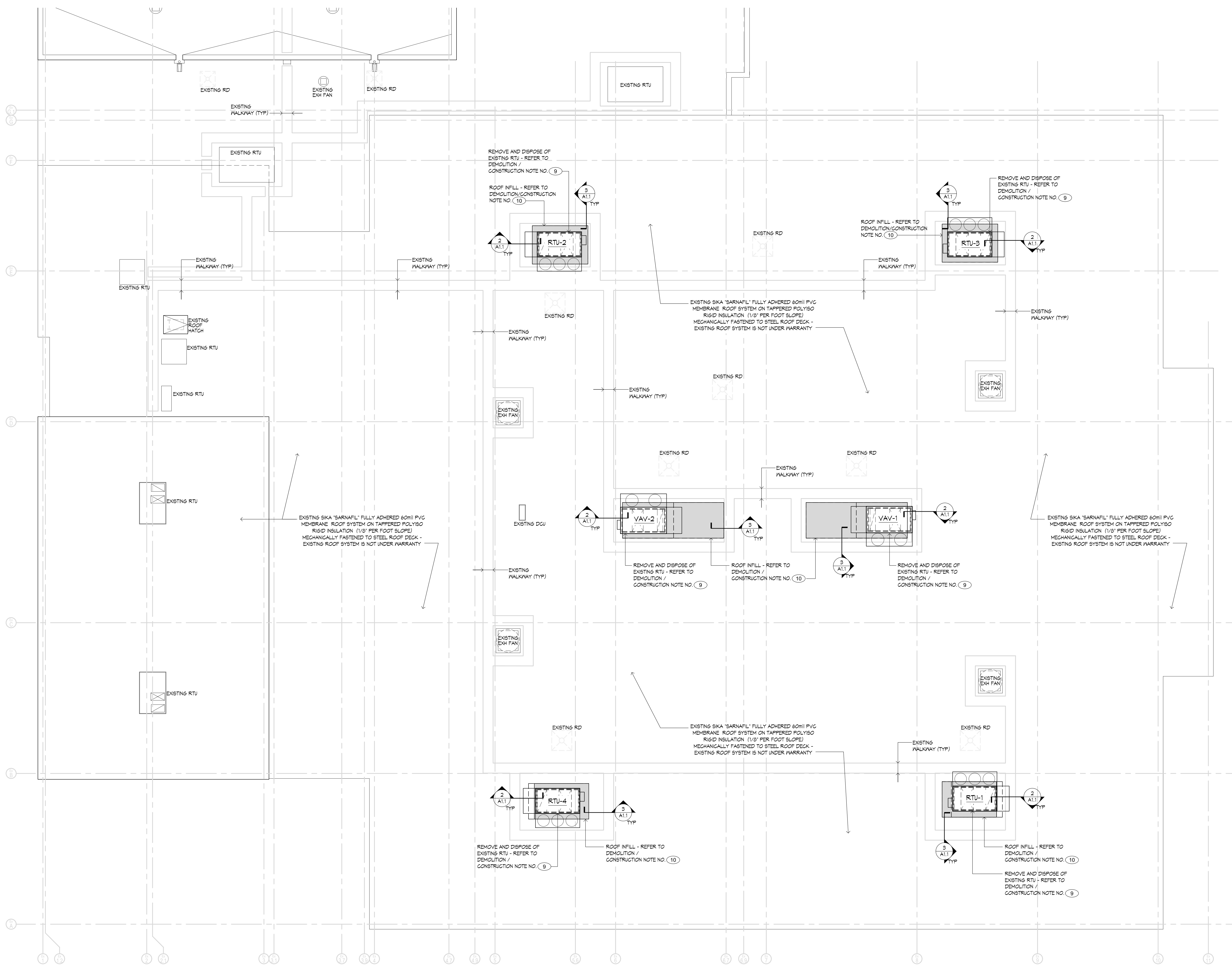
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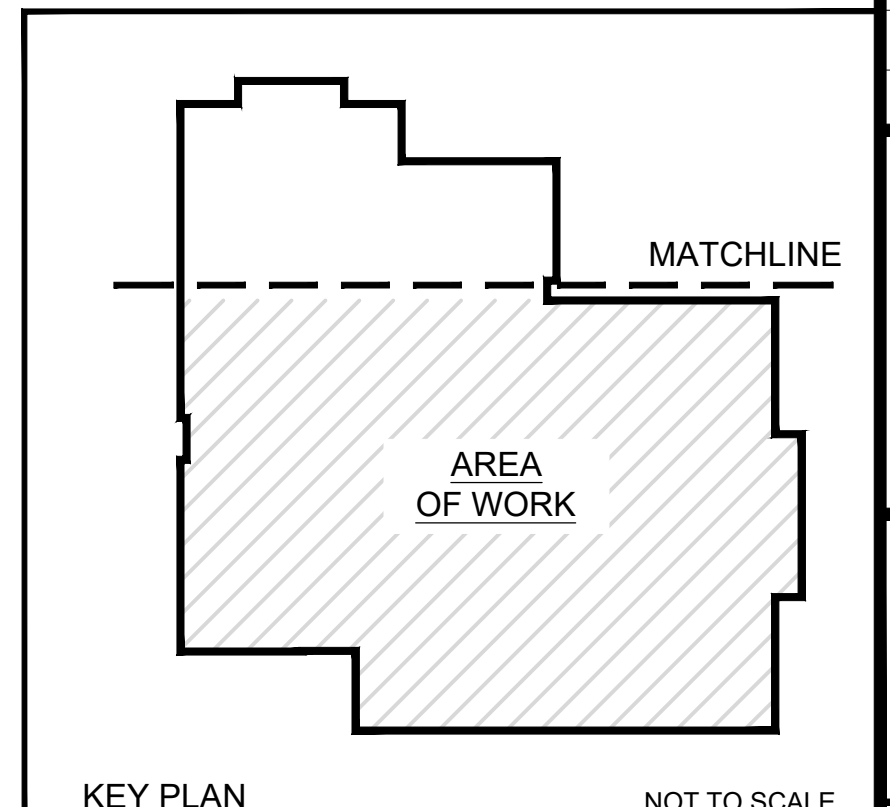
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1 PARTIAL LARGE SCALE ROOF PLAN  
A2.2 SCALE: 1/8" = 1'-0"



PARTIAL LARGE SCALE ROOF PLAN

# A2.2



ABBREVIATIONS	
ABBREVIATION	DESCRIPTION
AD	ACCESS DOOR
AF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
AH	AIR HANDLER
AHU	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AFD	AIR PRESSURE DROP
ATC	AUTOMATIC TEMPERATURE CONTROL
BHP	BREAK HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU/HOUR
BMS	BUILDING MANAGEMENT SYSTEM
CAF	CAPACITY
CFM	CUBIC FEET PER MINUTE
CU	CONDENSING UNIT
dB	DECIBELS
DN	DOWN
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE (DRY BULB)
E.C.	ELECTRICAL CONTRACTOR
EDB	ENTERING DRY BULB TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EH	ELECTRIC HEATER
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EWB	ENTERING WET BULB TEMPERATURE
'F	DEGREES FAHRENHEIT
FT	FEET
FT WG	FEET WATER GAUGE
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
G.C.	GENERAL CONTRACTOR
HP	HORSEPOWER
HSPF	HEATING SEASON PERFORMANCE FACTOR
IN	INCHES
IPLV	INTEGRATED PART LOAD VALUE
IN WG	INCHES WATER GAUGE
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB
LWB	LEAVING WET BULB
MAX	MAXIMUM
MBH	THOUSANDS OF BTU / HOUR
M.C.	MECHANICAL CONTRACTOR
MIN	MINIMUM
MOP	MAXIMUM OVERCURRENT PROTECTION
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE (DRY BULB)
ODB	OUTSIDE DRY BULB TEMPERATURE
OWB	OUTSIDE WET BULB TEMPERATURE
PH	PHASE
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
RE	REMOVE EXISTING
RF	RETURN FAN
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SP	STATIC PRESSURE
SPD	STATIC PRESSURE DROP
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UOI	UNLESS OTHERWISE INDICATED
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VVT	VARIABLE VOLUME TERMINAL

MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
	DUCTWORK (DOUBLE LINE)
	DUCTWORK WITH ACOUSTICAL LINING (DOUBLE LINE)
	DUCTWORK (SINGLE LINE)
	DUCTWORK WITH ACOUSTICAL LINING (SINGLE LINE)
	FLEXIBLE DUCTWORK
	RECTANGULAR/ROUND SUPPLY AIR DUCTWORK UP
	RECTANGULAR/ROUND RETURN AIR DUCTWORK UP
	RECTANGULAR/ROUND SUPPLY AIR DUCTWORK DOWN
	RECTANGULAR/ROUND RETURN AIR DUCTWORK DOWN
	CONNECT TO EXISTING
	EQUIPMENT TAG
	CO2 SENSOR
	RELATIVE HUMIDITY SENSOR
	PRESSURE SENSOR - DUCT MOUNTED
	SMOKE DETECTOR - DUCT MOUNTED
	SWITCH
	THERMOSTAT OR TEMPERATURE SENSOR
	THERMOSTAT GUARD w/ KEY LOCK
	CONTROL CONNECTION

PACKAGED ROOFTOP UNIT SCHEDULE																												
GENERAL		PERFORMANCE												ELECTRICAL				PHYSICAL		REMARKS								
TAG	SERVICE	SUPPLY AIR FAN				RETURN AIR FAN				HEATING		COOLING		OUTDOOR AIR		MCA	MOP	VOLTAGE	PHASE	WEIGHT (LBS)	MANUFACTURER MODEL	TYPE	RATINGS	FEATURES	INSTALL			
		CFM	ESP (IN WG)	RPM	HP	CFM	ESP (IN WG)	RPM	HP	HIGH INPUT	MIN GAS PRESSURE	TONS	TOTAL	SENSIBLE	EER											MIN CFM	MAX CFM	
RTU-1	ROOF	3550	1.0	1240	3.0	-	-	-	-	200	160	7.0 W.C.	15	192.2	121.9	12.1	500	1900	78.3	100	208	3	3255	TRANE OAKD180A3-D1B400JL	①	①	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	①②③④
RTU-2	ROOF	2800	1.0	1299	2.0	-	-	-	-	150	120	7.0 W.C.	12	146.5	93.7	13.3	500	1400	65.9	80	208	3	3105	TRANE OAKD144A3-D1B400GJ	①	①	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	①②③④
RTU-3	ROOF	2800	1.0	1299	2.0	-	-	-	-	150	120	7.0 W.C.	12	146.5	93.7	13.3	500	1400	65.9	80	208	3	3105	TRANE OAKD144A3-D1B400GJ	①	①	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	①②③④
RTU-4	ROOF	3550	1.0	1240	3.0	-	-	-	-	200	160	7.0 W.C.	15	192.2	121.9	12.1	500	1900	78.3	100	208	3	3255	TRANE OAKD180A3-D1B400JL	①	①	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	①②③④
VAV-1	ROOF	3650	1.0	1859	2.0	-	-	-	-	350	280	7.0 W.C.	20	233.3	144.6	12.7	750	2400	80.1	100	208	3	3350	TRANE OADG020C1-DAB10A00	②	①	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	①②③④
VAV-2	ROOF	2130	1.0	1379	1.0	-	-	-	-	150	120	7.0 W.C.	10	122.6	77.5	13.1	350	1000	54.6	70	208	3	3065	TRANE OADG010C1-DAB10AE00	②	①	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	①②③④

- ① SINGLE ZONE VARIABLE AIR VOLUME ROOF TOP UNIT, PACKAGED GAS FURNACE, DX COOLING COIL, ROOF MOUNTED, BOTTOM DISCHARGE
- ② MULTI ZONE VARIABLE AIR VOLUME ROOF TOP UNIT, PACKAGED GAS FURNACE, DX COOLING COIL, ROOF MOUNTED, BOTTOM DISCHARGE
- ① AHRI CERTIFIED
- ① PROVIDE MERV 13 FILTERS ON INTAKE
- ② DOUBLE WALL CONSTRUCTION
- ③ SEISMIC VIBRATION, SOUND ATTENUATING, PLENUM ROOF CURB
- ④ SUPPLY BLOWER, DIRECT DRIVE MOTOR WITH VFD
- ⑤ FIELD INSTALLED POWER EXHAUST
- ⑥ SPARE FILTERS
- ⑦ SERVICE OUTLET - FACTORY
- ⑧ TWO POSITION OUTDOOR AIR DAMPER
- ⑨ ECONOMIZER CYCLE
- ⑩ FUSED DISCONNECT SWITCH
- ⑪ PROGRAMMABLE CONTROLLER WITH BMS INTERFACE
- ⑫ THERMOSTAT
- ⑬ VAV CONTROLLERS AND WALL THERMOSTAT
- ⑭ FURNACE w/ STAINLESS STEEL TUBES AND BURNERS
- ⑮ 7.0 IN WC MINIMUM INCOMING GAS PRESSURE
- ⑯ MODULATING HOT GAS REHEAT DEHUMIDIFICATION
- ① INSTALL PER MANUFACTURERS INSTRUCTION
- ② UNIT SHALL BE PROGRAMMED PER OWNERS REQUIREMENT AND HOURS OF OPERATION
- ③ SECURE ROOF CURB TO ROOF STRUCTURE PER ROOF CURB MANUFACTURERS INSTRUCTIONS
- ④ A DUCT MOUNTED SMOKE DETECTOR SHALL BE INSTALLED IN THE SUPPLY AIR DUCT PRIOR TO ANY TAKE-OFF. THE DETECTOR SHALL BE SUPPLIED BY THE ELECTRICAL CONTRACTOR AND MOUNTED BY THE MECHANICAL CONTRACTOR
- ⑤ THE EXISTING VAV CONTROLLERS AND SENSORS SHALL BE REPLACED WITH NEW.

**ROOFTOP UNIT REPLACEMENTS**  
**QUIDNESSETT ELEMENTARY SCHOOL**

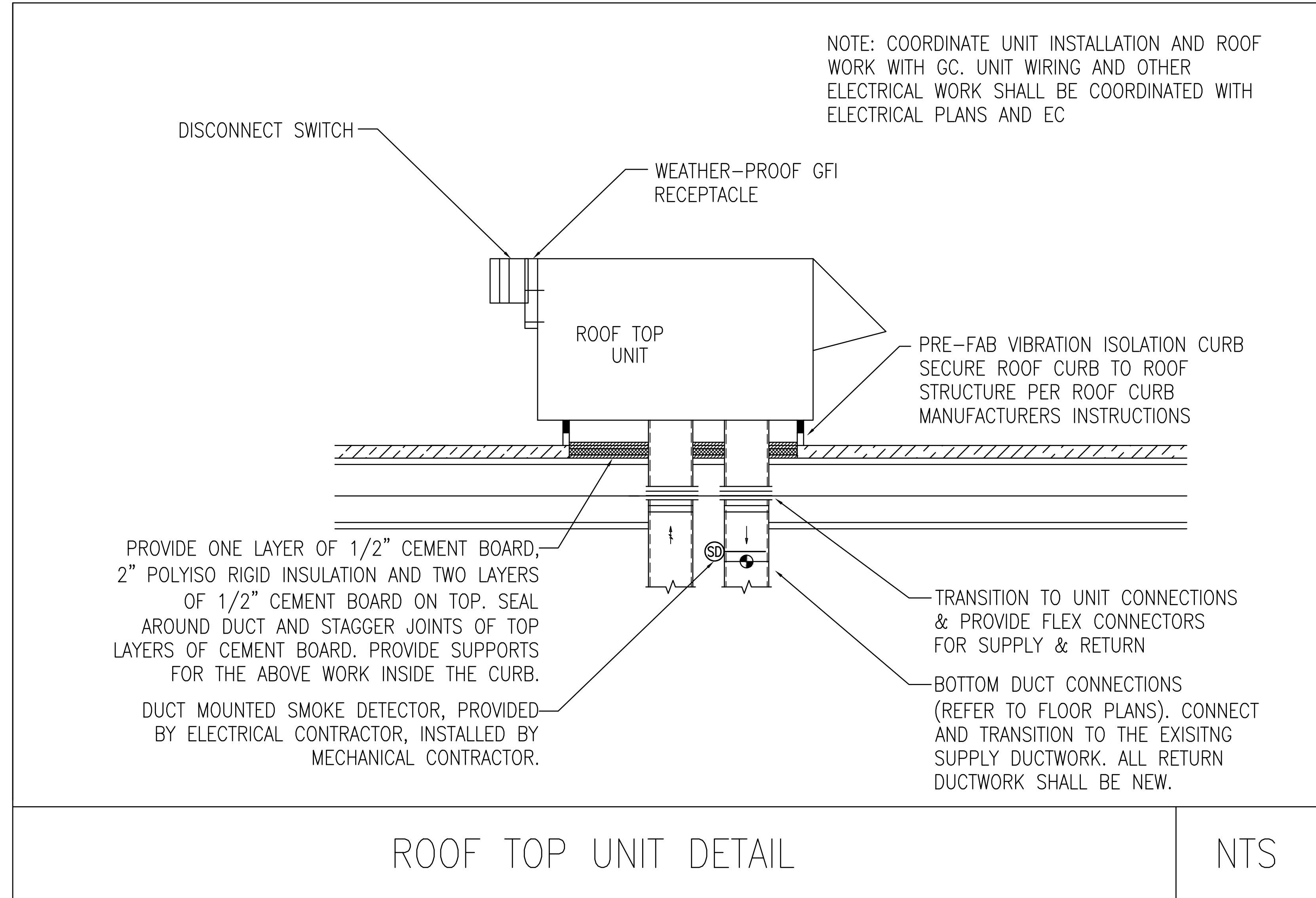
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**STEVEN A. KARAN**  
No. 6537  
REGISTERED PROFESSIONAL ENGINEER (MECHANICAL)

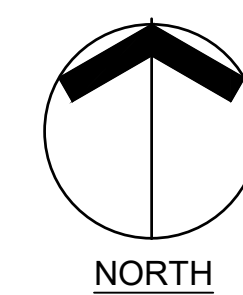
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Drawn by: KWB    Proj. Mgr.: GAA

No.	Date	Description

**MECHANICAL - LEGENDS, NOTES, SCHEDULES & DETAILS**

**MO.1**





**ROOFTOP UNIT  
REPLACEMENTS**  
**QUIDNESSET  
ELEMENTARY SCHOOL**



QUIDNESSET ELEMENTARY  
North Kingstown, Rhode Island

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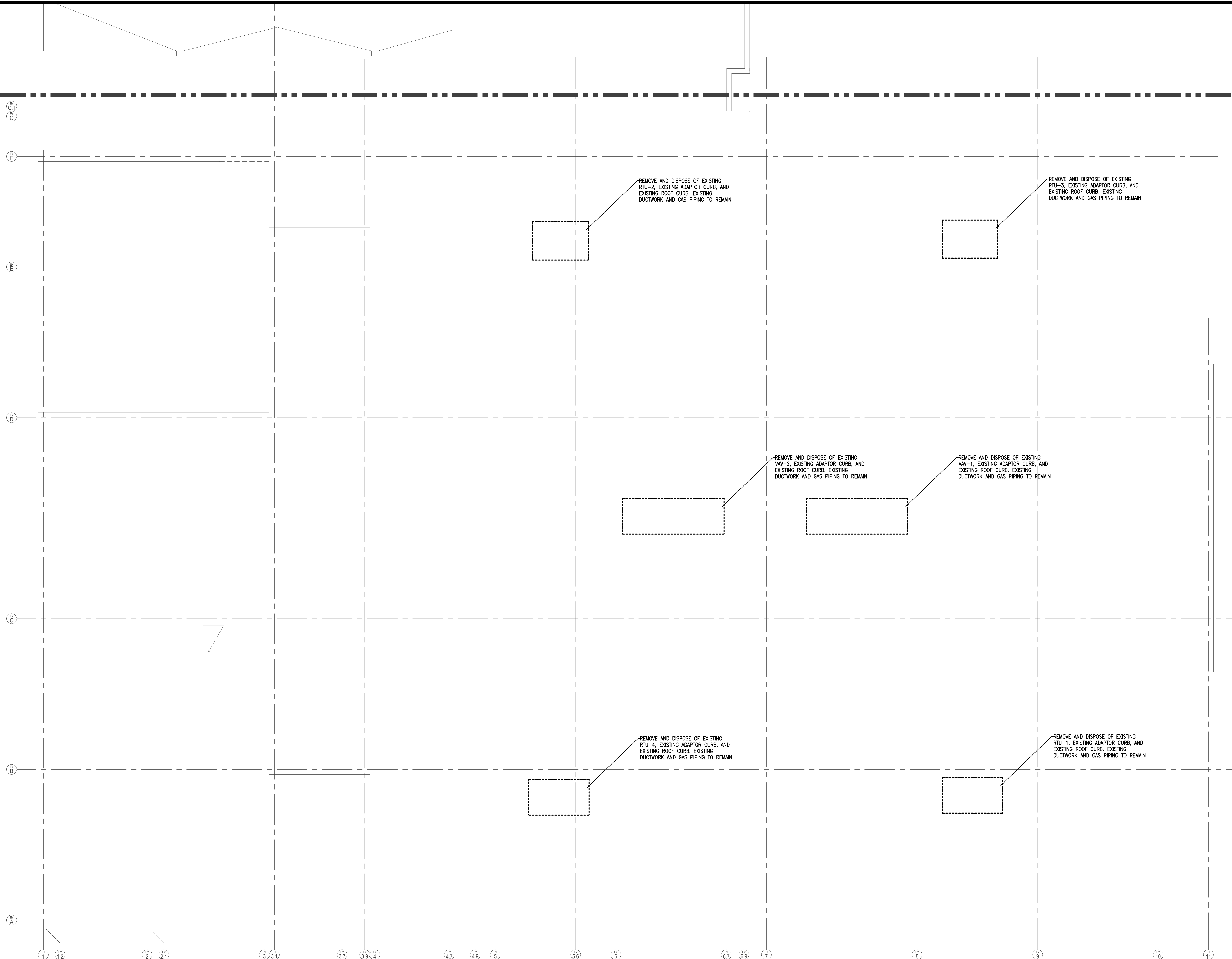
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Revisions		
No.	Date	Description

**MECHANICAL -  
DEMOLITION ROOF  
PLAN**

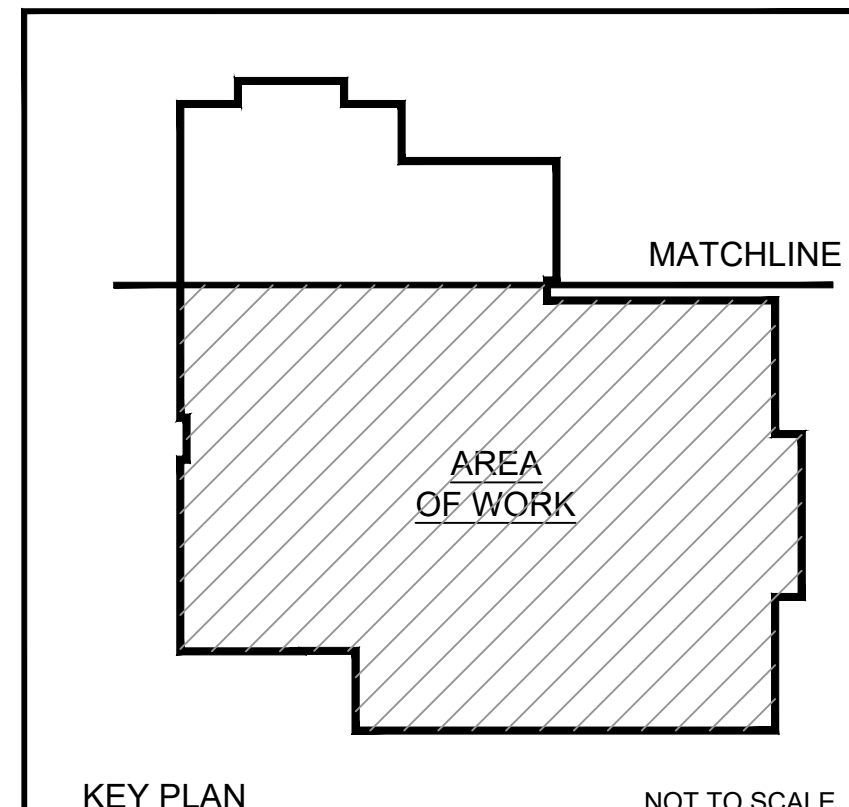
**M1.1**

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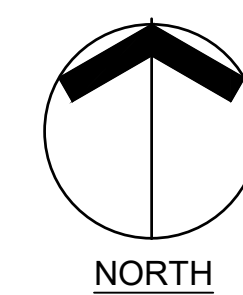
**MECHANICAL DEMOLITION PLAN LEGEND**

SYMBOL	DESCRIPTION
	EXISTING TO BE DEMOLISHED
	EXISTING TO REMAIN
	CONNECT TO EXISTING



**1** MECHANICAL - DEMOLITION ROOF PLAN  
M1.1 SCALE: 1/8" = 1'





**ROOFTOP UNIT REPLACEMENTS**  
**QUIDNESSETT ELEMENTARY SCHOOL**



QUIDNESSETT ELEMENTARY  
 North Kingstown, Rhode Island

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**GENERAL NOTES**

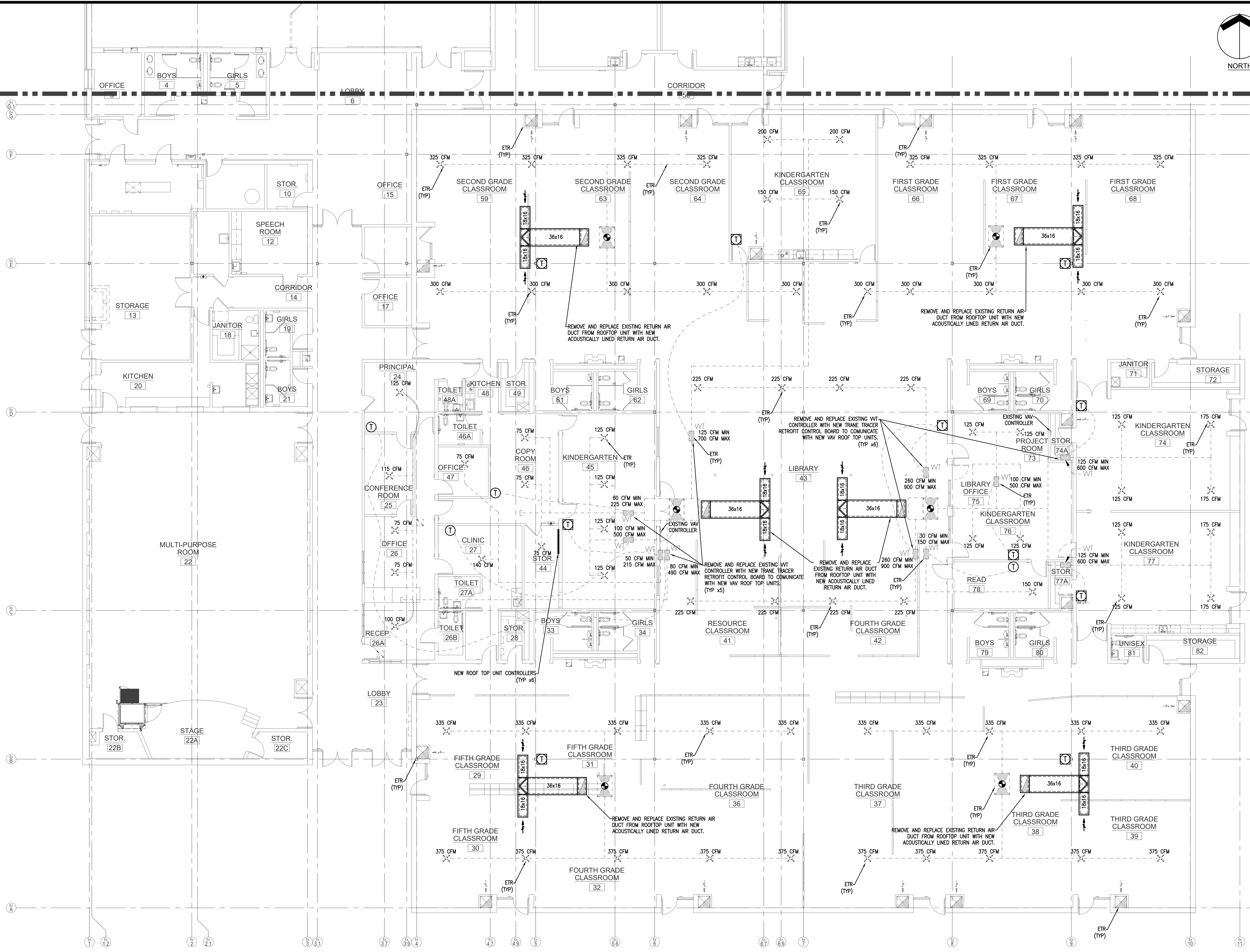
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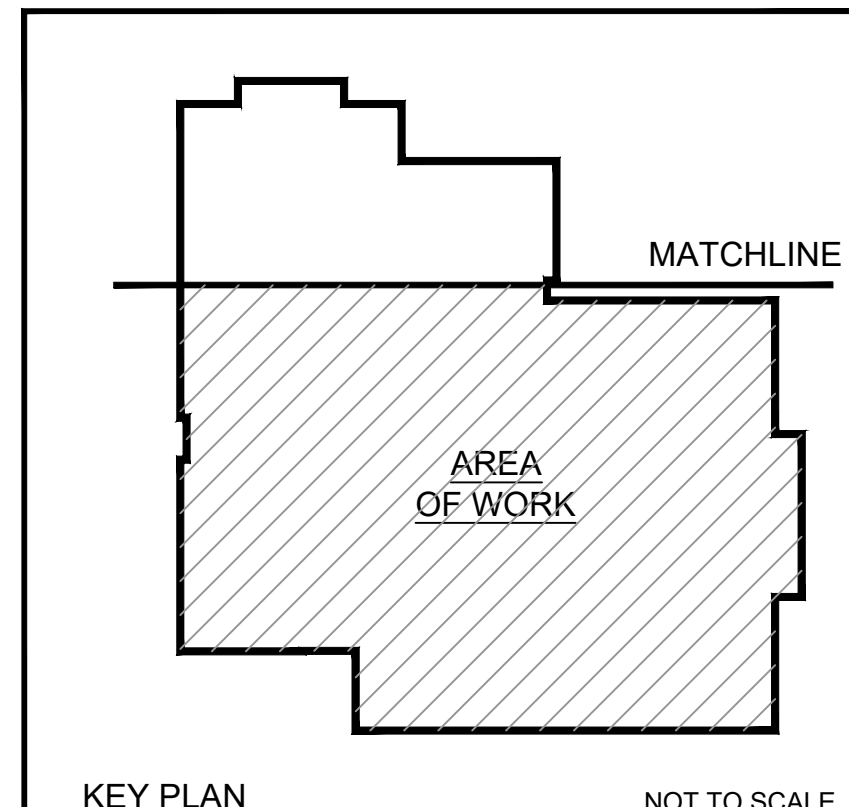
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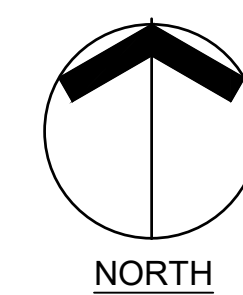
**1** MECHANICAL - RENOVATION FLOOR PLAN  
 M2.0 SCALE: 1/8" = 1'



**MECHANICAL - RENOVATION FLOOR PLAN**

**M2.0**





**ROOFTOP UNIT  
REPLACEMENTS**  
**QUIDNESSET  
ELEMENTARY SCHOOL**



QUIDNESSET ELEMENTARY  
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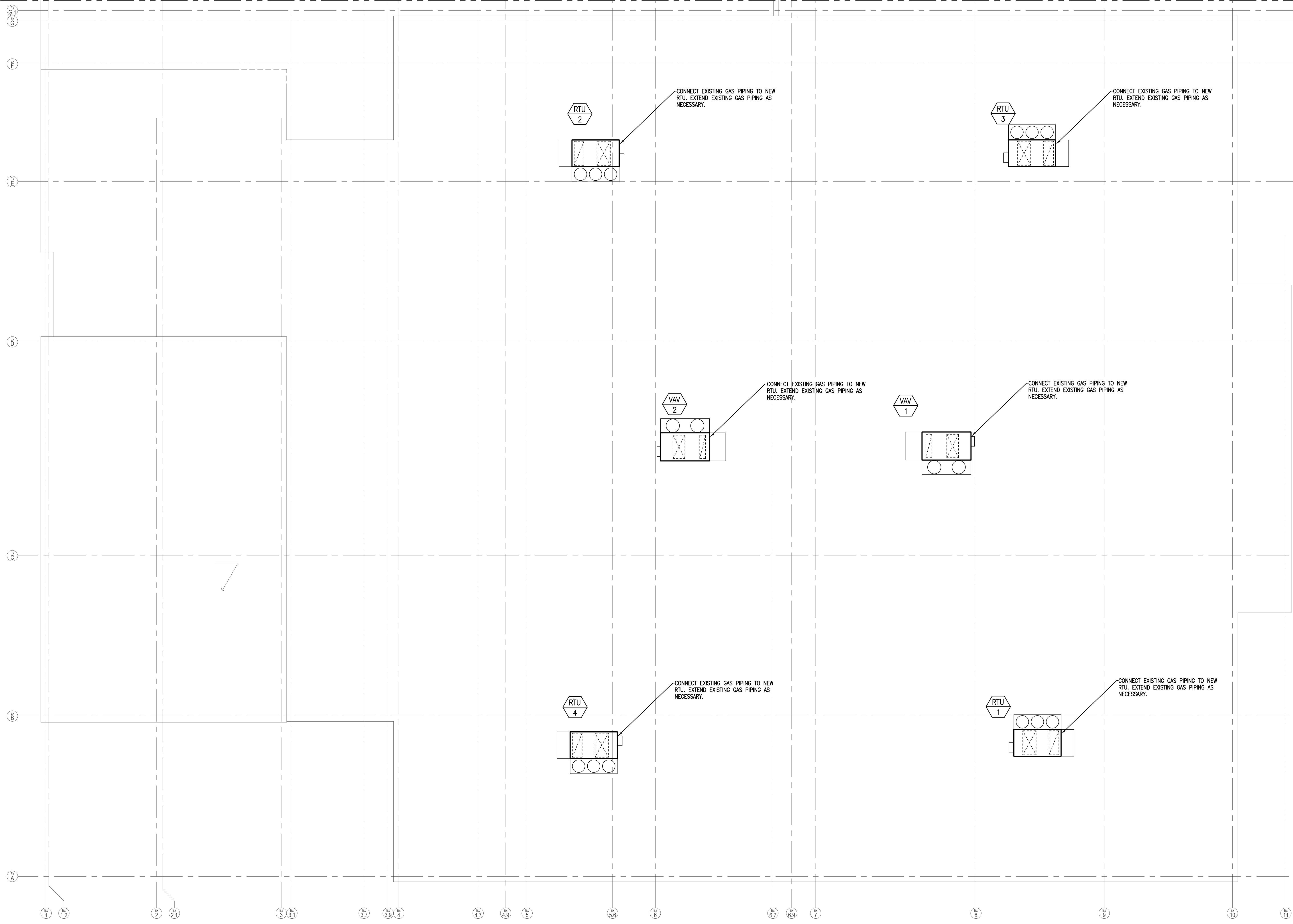
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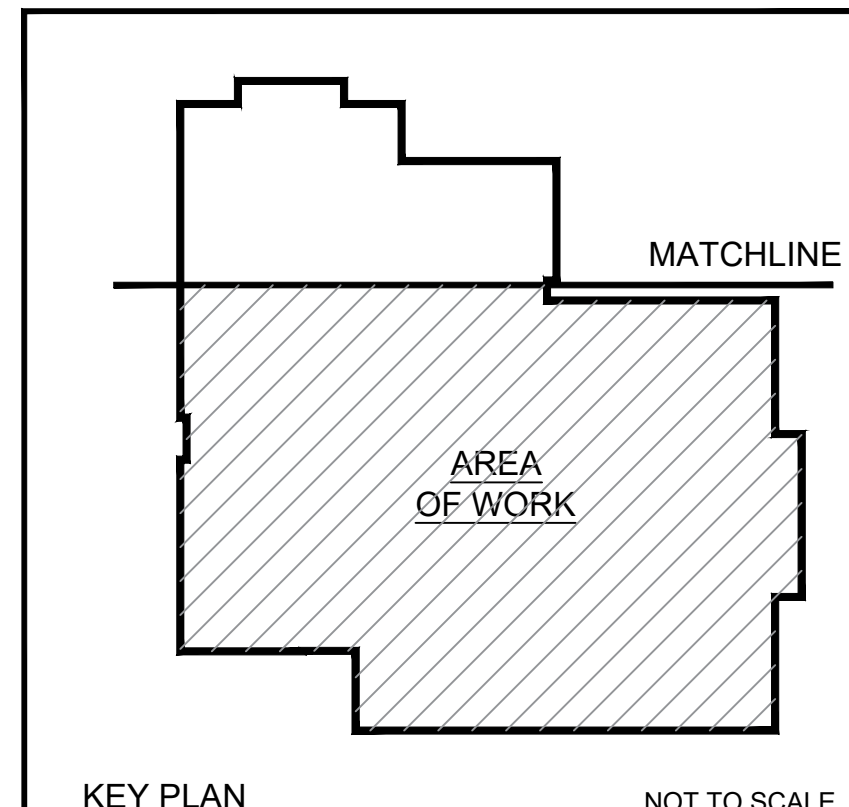
Revisions

No. Date Description

MATCHLINE



1 MECHANICAL - RENOVATION ROOF PLAN  
M2.1 SCALE: 1/8" = 1'

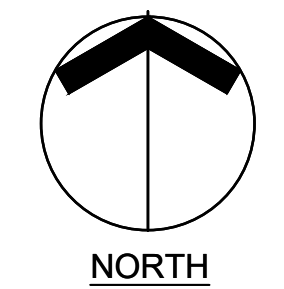


KEY PLAN NOT TO SCALE

**MECHANICAL -  
RENOVATION ROOF  
PLAN**

**M2.1**





# ROOFTOP UNIT REPLACEMENTS

## QUIDNESSET ELEMENTARY SCHOOL



QUIDNESSET ELEMENTARY  
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Drawn by: NM Proj. Mgr.: GAA

Revisions	No.	Date	Description

### ELECTRICAL - LEGEND, & POWER FLOOR PLAN

# E1.0

### 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, (1) 20A, 1P CIRCUITS NUMBER OF SLASH MARKS DENOTES NUMBER OF #12AWG CONDUCTORS IN MINIMUM 3/4" CONDUIT UNLESS OTHERWISE INDICATED.
- 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" CONDUIT.

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

### MECHANICAL EQUIPMENT TAG ABBREVIATIONS

- ME DENOTES EQUIPMENT TYPE
- RTU DENOTES UNIT NUMBER
- RTU ROOF TOP UNIT
- VAV VARIABLE AIR VOLUME BOX

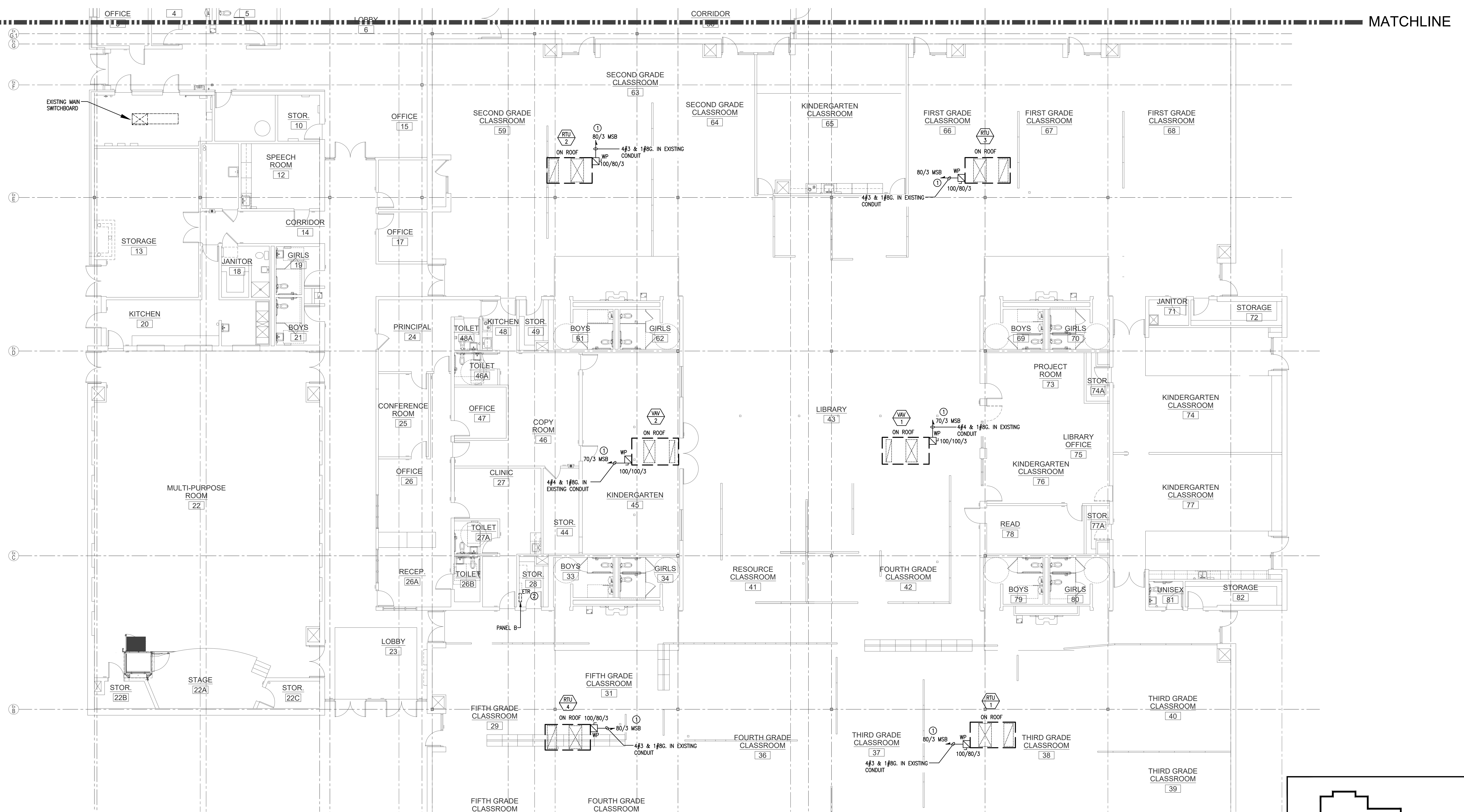
### MISCELLANEOUS

- JUNCTION BOX WITH FLEXIBLE CONNECTION TO EQUIPMENT
- DISTRIBUTION PANEL
- PANELBOARD, SURFACE MOUNTED
- PANELBOARD, FLUSH MOUNTED
- JUNCTION BOX, SIZED PER NEC
- MAGNETIC MOTOR STARTER WITH ENCLOSURE, MINIMUM SIZE NEMA 1
- MANUAL MOTOR STARTER WITH THERMAL OVERLOAD. "P" DENOTES PILOT LIGHT
- NON-FUSED DISCONNECT SWITCH: "30/3" DENOTES 30 AMP/3 POLE SWITCH
- 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

### POWER DISTRIBUTION EQUIPMENT

### BRANCH CIRCUIT WIRING NOTES:

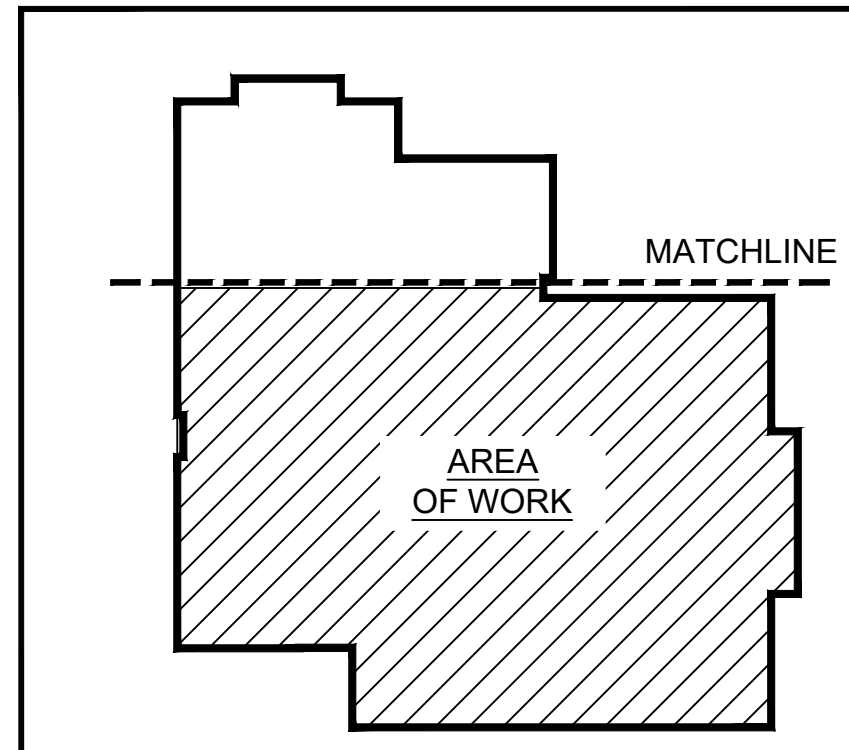
- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.
- ALTHOUGH ALL BRANCH CIRCUIT WIRING 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).
- WHERE EXISTING SWITCHES AND RECEPTACLES ARE INDICATED TO REMAIN, THIS CONTRACTOR SHALL REPLACE SAID DEVICE(S) AND DEVICE PLATE(S) WITH NEW TO MATCH THE NEW CONSTRUCTION. WHERE THEY ARE INDICATED AS RELOCATED, EXTEND BRANCH CIRCUIT WIRING TO NEW LOCATION AND PROVIDE NEW DEVICE AND DEVICE PLATE TO MATCH NEW CONSTRUCTION.
- ALL SELF CONTAINED EMERGENCY LIGHTING UNITS AND EXIT LIGHTING SHALL BE CONNECTED TO THE NEAREST UNSWITCHED LIGHTING CIRCUIT IN THE BUILDING WITH 2 #12, #12G, 3/4" CONDUIT.



1 PARTIAL FLOOR PLAN  
E1.0 SCALE: 3/32" = 1'

- ### GENERAL NOTE:
- MOUNT DISCONNECT SWITCH ON UNSTRUCTURED RACK INDEPENDENT OF MECHANICAL UNIT.
  - EXISTING DUCT SMOKES ARE EXISTING TO REMAIN.

- ### POWER KEY NOTES:
- DISCONNECT AND REMOVE EXISTING CONDUCTORS BACK TO SWITCHBOARD. REMOVE EXISTING CIRCUIT BREAKER AND RETURN TO OWNER. PROVIDE NEW CIRCUIT BREAKER INDICATED. RE-USE EXISTING CONDUIT TO UNIT. PROVIDE FINAL CONNECTION THROUGH ROOF.
  - PROVIDE CIRCUIT TO (S) RTU CONTROLLERS LOCATED IN STORAGE ROOM 28. CONNECT TO NEXT AVAILABLE CIRCUIT IN PANEL B.



KEY PLAN

NOT TO SCALE