

Reconstruction to:
Rombout Middle School
Beacon High School

S.E.D. Control No. 13-02-00-01-0-004-021
S.E.D. Control No. 13-02-00-01-0-020-011

Beacon City School District
Beacon, New York

BEACON HIGH SCHOOL

ROMBOUT MIDDLE SCHOOL

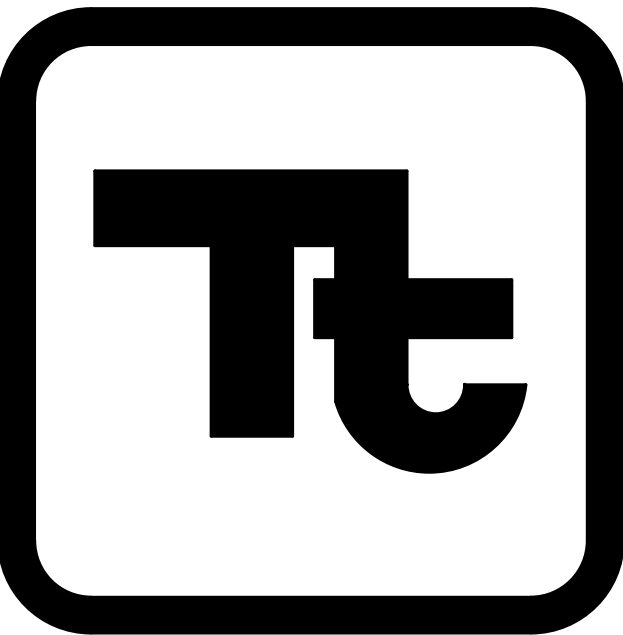


Project Location Map

Drawing List

- GENERAL
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G100 Symbols and Abbreviations
- Rombout Middle School**
CODE COMPLIANCE
EG350 Code Compliance Review and First Floor Key Plan
EG351 Second Floor Key Plan
- ARCHITECTURAL
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- Beacon High School**
CODE COMPLIANCE
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FG351 Second Floor Key Plan
- ARCHITECTURAL
FA050 Roof Key Plan
FA190 Roof Plans Area A and G
- Common**
ARCHITECTURAL
ZA190 Details
ZA191 Details

Drawn By: TTAE	Date: 12/21/2021	Drawing Number: AA130
Project No.: 279180-22001		
BUILDING DESIGNATOR		↑
DISCIPLINE DESIGNATOR		↑
SHEET TYPE DESIGNATOR		↑
SHEET SEQUENCE DESIGNATOR		↑



TETRA TECH
ARCHITECTS & ENGINEERS

Architecture Engineering Planning
for High Performance Facilities

To the best of the Architect's knowledge, information and belief, the design of this project conforms to all applicable provisions of the New York State Uniform Fire Prevention and Building Code, the New York State Energy Conservation Code, and the building standards of the New York State Education Department.

BID SET

279180-22001
12/21/2021

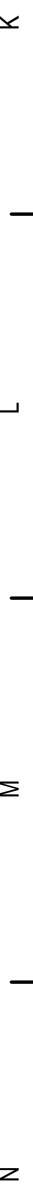
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Drawing Number:
G001

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1. MEAN ROOF HEIGHT IS MEASURED ABOVE GROUND LEVEL ELEVATION.
2. REFER TO ASCE 7-16 FOR DEFINITION OF TERMS. FOR THE DIMENSIONS OF EACH ZONE, REFERENCE FIGURE 30-4.1 IN ASCE 7-16 AND USE "I" FROM ABOVE TABLE TO DETERMINE 0.6h AND 0.2h.
3. THESE TABLES ARE TO BE USED FOR WIND LOAD CONTRIBUTION TO TOTAL LOAD ACTING ON ANY COMPONENT OR CLADDING MEMBER WHICH IS PART OF A ROOF OR EXTERIOR WALL ASSEMBLY. EXAMPLES OF COMPONENTS AND CLADDING INCLUDE, BUT ARE NOT LIMITED TO ROOF JOISTS, WALL STUDS, ROOF DECK FASTENERS, VENEER TIES, WINDOWS, AND THEIR ATTACHMENTS.
4. FOR EFFECTIVE WIND AREA VALUES LISTED IN THE TABLE ABOVE, PRESSURE VALUES MAY BE INTERPOLATED; OTHERWISE USE THE VALUE ASSOCIATED WITH THE LOWER EFFECTIVE WIND AREA.
5. POSITIVE PRESSURES (+) ACT TOWARDS THE BUILDING, NEGATIVE PRESSURES (-) ACT AWAY FROM THE BUILDING. POSITIVE AND NEGATIVE PRESSURES DO NOT ACT SIMULTANEOUSLY. PRESSURES ARE APPLIED TO THE SURFACE OF THE COMPONENT OR CLADDING.
6. DESIGN VALUES SHOWN IN THIS TABLE ARE ULTIMATE VALUES FOR USE WITH LRFD DESIGN. VALUES MAY BE MULTIPLIED BY 0.6 FOR USE WITH SERVICE LEVEL OR ASD DESIGN. REFER TO THE BUILDING CODE FOR APPLICABLE LOAD COMBINATIONS.

A. ROOF LIVE LOADS PER BCNYS 1607.13		
MINIMUM ROOF LIVE LOAD		20 PSF
B. RAIN LOADS PER BCNYS 1611		
RAIN INTENSITY, I		2.75 IN/HR
RAIN LOAD, R		16 PSF
RAIN SURCHARGE LOAD HAS BEEN APPLIED TO AREAS WHERE PONDING OCCURS IN ACCORDANCE WITH BCNYS 1611.1.		
C. SNOW LOADS PER BCNYS 1608		
GROUND SNOW, P _g (FIGURE 1608-2)		30 PSF
FLAT ROOF SNOW LOAD, P _f (ASCE 7)		23.1 PSF
SNOW EXPOSURE FACTOR, C _e		1.0
THERMAL FACTOR, C _t		1.0
SNOW LOAD IMPORTANCE FACTOR, I _s		1.1
ADDITIONAL SNOW LOADS HAVE BEEN APPLIED TO AREAS WHERE DRIFTING OCCURS IN ACCORDANCE WITH BCNYS 1608.		
D. WIND LOAD DESIGN CRITERIA PER BCNYS 1609		
BASIC DESIGN WIND SPEED (3 SECOND GUST), V		121 MPH
ALLOWABLE STRESS DESIGN WIND SPEED, V _{allow}		83.7 MPH
RISK CATEGORY		III
EXPOSURE CATEGORY		B
INTERNAL PRESSURE COEFFICIENT, GCP,		+/- 0.18
E. SEISMIC DESIGN CRITERIA PER BCNYS 1613		
RISK CATEGORY		III
SEISMIC IMPORTANCE FACTOR, I _s		1.25
MAPPED SPECTRAL RESPONSE ACCELERATION		
AT 1 SECOND PERIODS, S ₁		23.2 %g
AT 1/2 SECOND PERIODS, S _{0.5}		5.7 %g
SITE CLASS		D
DESIGN SPECTRAL RESPONSE ACCELERATION		
AT SHORT PERIODS, S _{0.2}		24.8 %g
AT 1 SECOND PERIODS, S ₀₁		8.1 %g
SEISMIC DESIGN CATEGORY		B



PROJECT LOCATION:
88 MATTEAWAN ROAD, BEACON, NEW YORK 12508
BOUNDED BY MATTEAWAN ROAD TO THE NORTH AND ROBERT CAHILL DRIVE TO THE SOUTH.

PROJECT DESCRIPTION:
THIS PROJECT INCLUDES REPLACEMENT OF 50,350 SF OF THE ROOF.
WORK GENERALLY CONSISTS OF THE FOLLOWING:
A. ALTERATIONS - LEVEL 1
1. ROOF REPLACEMENT

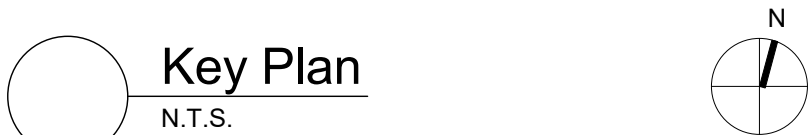
APPLICABLE CODES (AND STANDARDS):
BASED ON THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE INCLUDING APPLICABLE 2018 ICC CODES AND 2020 BUILDING CODES OF NYS, AND ICC A117-1.2017 STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.
REFER TO PROJECT MANUAL FOR REQUIREMENTS STATED IN 'NYCRR 155 REGULATIONS OF THE COMMISSIONER OF EDUCATION'.
ENERGY CODE DUTCHESS COUNTY - CLIMATE ZONE 5A

BUILDING DATA:

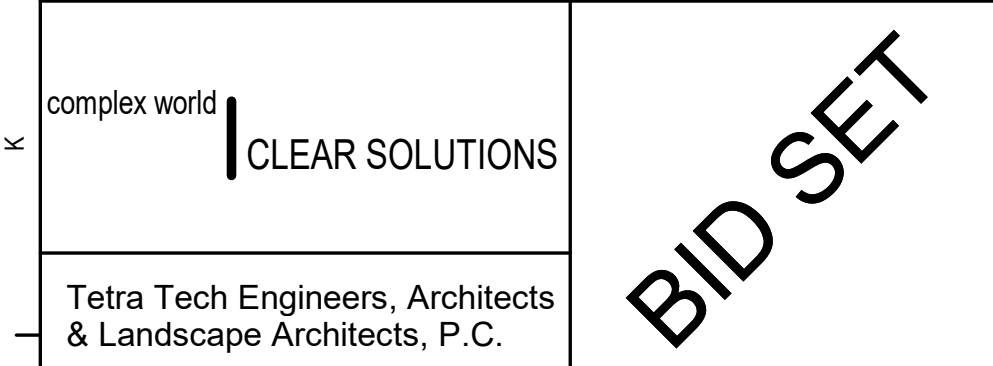
BUILDING:	ROUMBOUT MIDDLE SCHOOL 88 MATTEAWAN ROAD BEACON, NY 12508	
DESCRIPTION:	TWO STORY MASONRY AND REINFORCED CONCRETE BUILDING.	
YEAR BUILT:	1962	
BUILDING AREA:	1ST FLOOR	107,185 SQFT
	2ND FLOOR	22,920 SQFT
	TOTAL GROSS AREA= 130,105 SQFT	

CODE DATA SUMMARY:
BUILDINGS ARE REQUIRED TO HAVE BEEN CONSTRUCTED AND SUBSEQUENT ALTERATIONS MADE IN COMPLIANCE WITH CODES IN EXISTENCE AT THAT TIME.
USE GROUP: E : EDUCATION
CONSTRUCTION TYPE -
EXISTING: IIB
FIRE SAFETY: AN AUTOMATIC SPRINKLER SYSTEM IS NOT PROVIDED

PATH OF CODE COMPLIANCE:
2018 IBC CODES AND 2020 EXISTING BUILDING CODE OF NYS
301.1.2 WORK AREA COMPLIANCE METHOD
CHAPTER 5 - CLASSIFICATION OF WORK
503 ALTERATION - LEVEL 1 (CHAPTER 7)
504 ALTERATION - LEVEL 2 (CHAPTER 8)
NEW CONSTRUCTION WILL COMPLY WITH REQUIREMENTS OF 2018 ICC CODES AND 2020 BUILDING CODES OF NYS



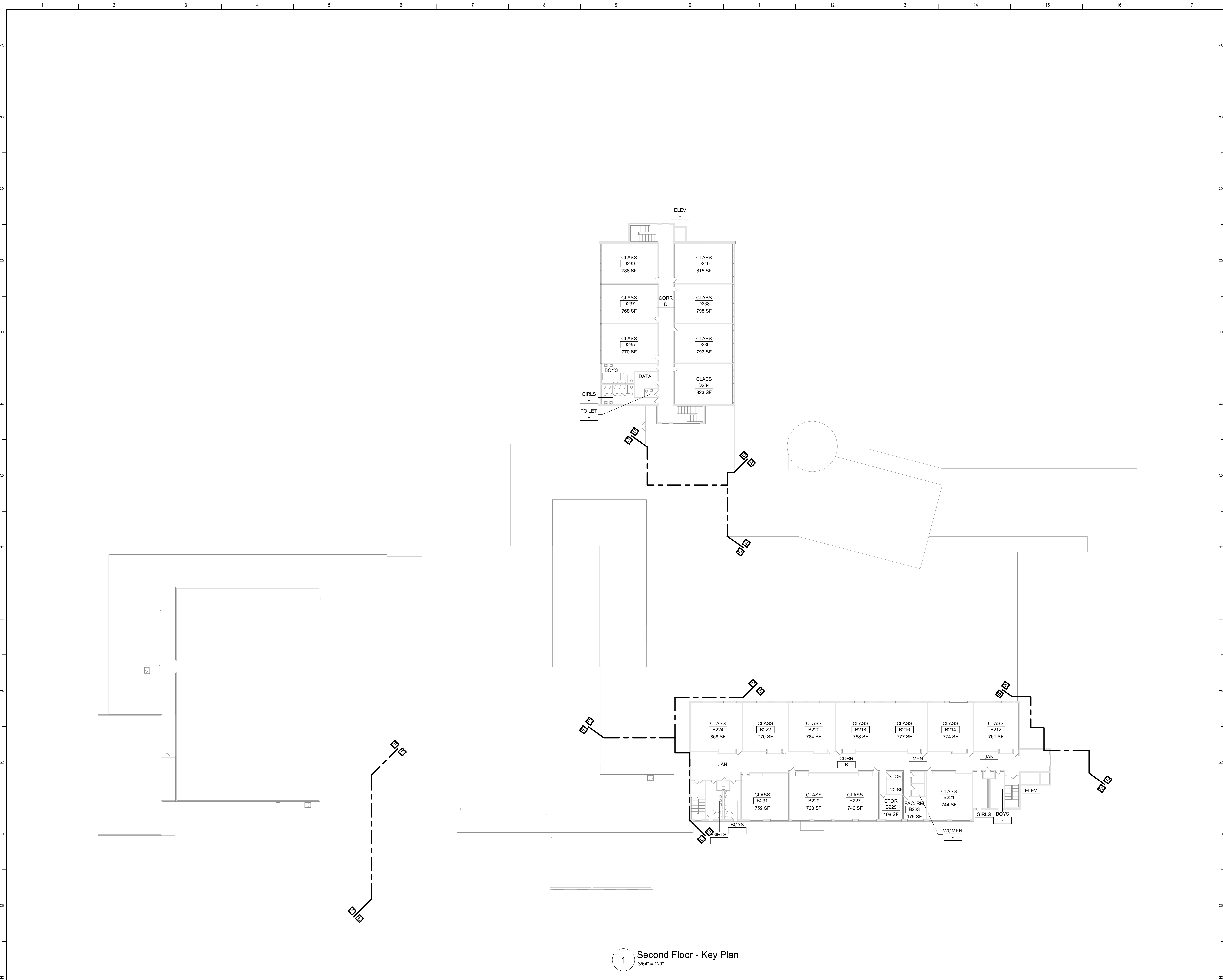
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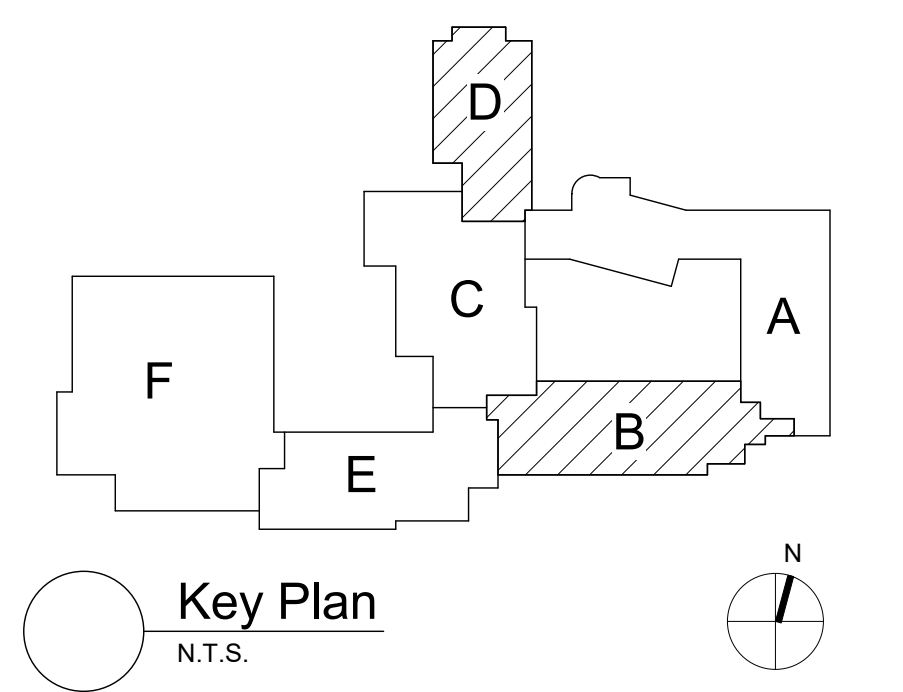
Beacon City School District Beacon, New York

Code Compliance Review and First Floor Key Plan

N	Drawn By: TLG	Date: 12/21/2021	Drawing Number:
	Project No.: 279180-22001		EG350

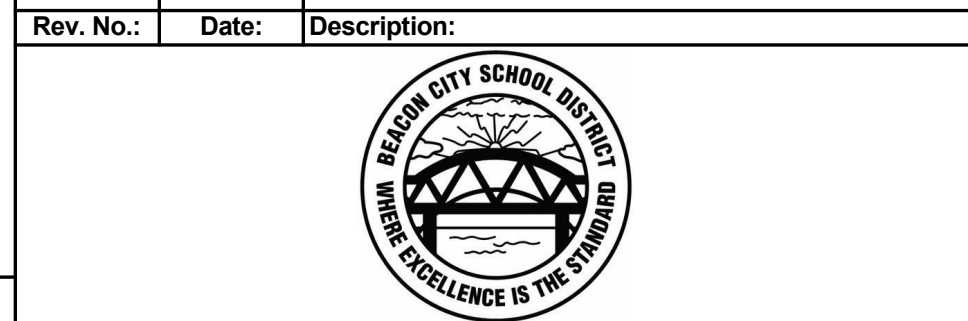


1 Second Floor - Key Plan
3/64" = 1'-0"



S.E.D. Control No. 13-02-00-01-0-004-021

Rev. No.:	Date:	Description:



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& Landscape Architects, P.C.

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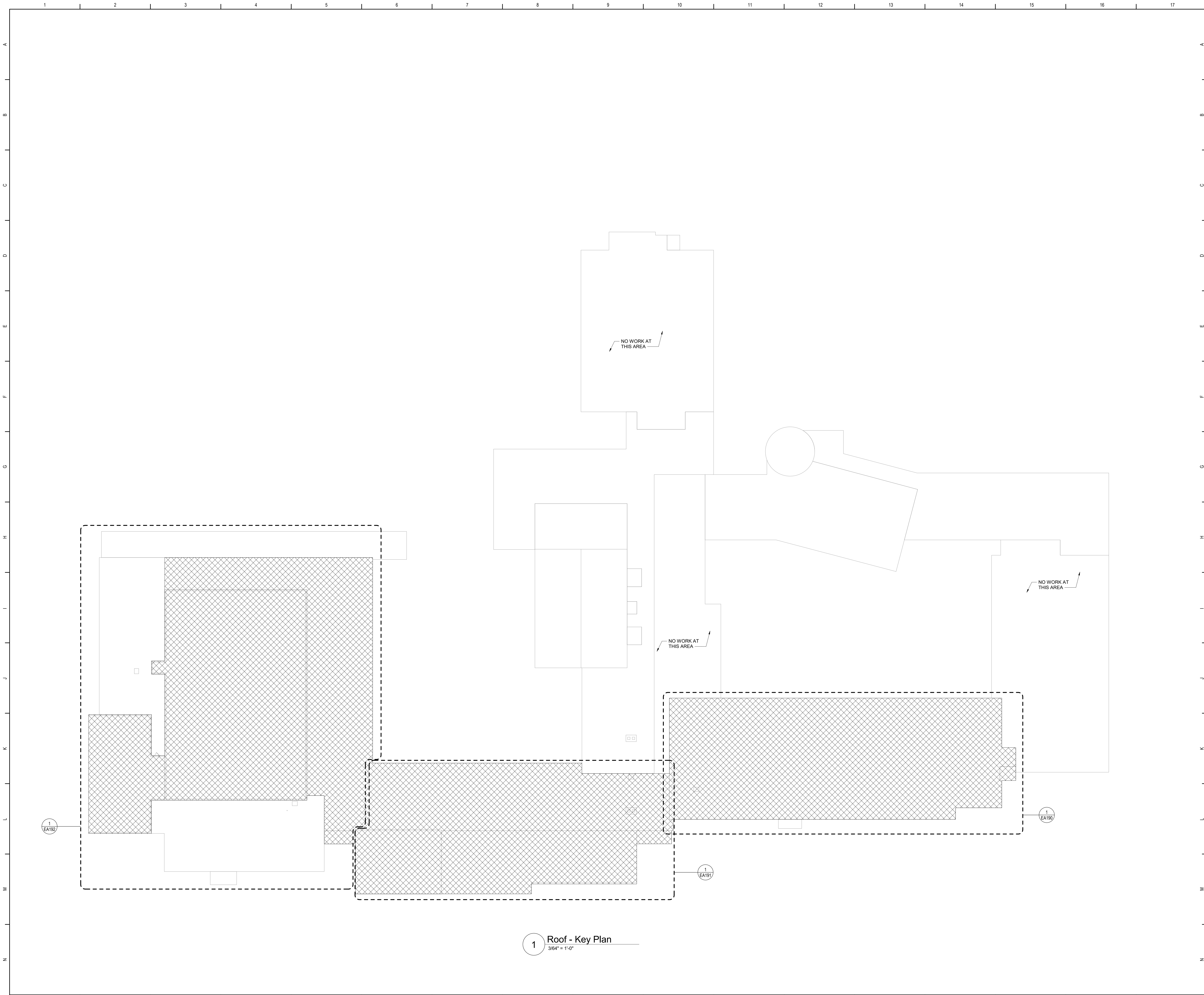


Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

Second Floor Key Plan

Drawn By: TLG	Date: 12/21/2021	Drawing Number:
Project No.: 279180-22001	EG351	



General Notes

A. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS.

B. TAKE FIELD MEASUREMENTS TO FIT THE WORK PROPERLY. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD.

C. REFER INCONSISTENCIES TO ARCHITECT PRIOR TO COMMENCING THE WORK IN AFFECTED AREA.

D. ITEMS ARE SHOWN DIAGRAMMATICALLY ON DRAWINGS. VERIFY SPACE REQUIREMENTS AND DIMENSIONS TO FIT THE WORK PROPERLY.

E. NOTES SHOWN ON ONE DRAWING APPLY TO ALL SIMILAR DRAWINGS.

F. DO NOT DISTURB CONSTRUCTION SUSPECTED OF CONTAINING HAZARDOUS MATERIAL. IF ENCOUNTERED, IMMEDIATELY NOTIFY ARCHITECT, CONSTRUCTION MANAGER AND OWNER.

AREAS OF ROOF WORK.

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Key Plan

N.T.S.

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S.E.D. Control No. 13-02-00-01-0-004-021

Rev. No.:	Date:	Description:

BEACON CITY SCHOOL DISTRICT

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TT

TETRA TECH

ARCHITECTS & ENGINEERS

Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

Roof Key Plan

Drawn By:
TLG

Date:
12/21/2021

Project No.:
279180-22001

Drawing Number:
EA050

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EA192

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EA191

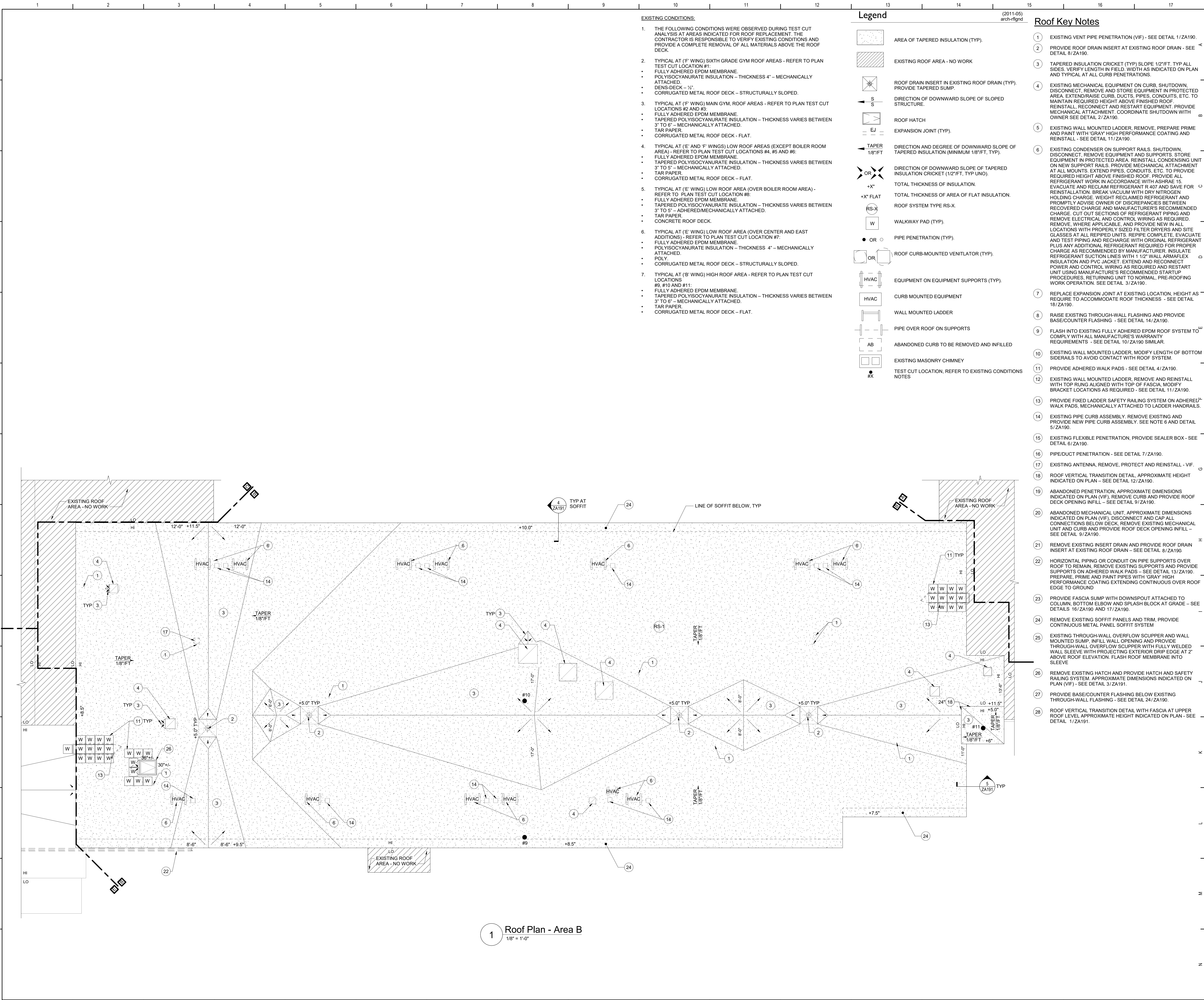
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EA190

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Roof - Key Plan

3/64" = 1'-0"



EXISTING CONDITIONS:

- THE FOLLOWING CONDITIONS WERE OBSERVED DURING TEST CUT ANALYSIS AT AREAS INDICATED FOR ROOF REPLACEMENT. THE CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING CONDITIONS AND PROVIDE A COMPLETE REMOVAL OF ALL MATERIALS ABOVE THE ROOF DECK.
- TYPICAL AT (F' WING) SIXTH GRADE GYM ROOF AREAS - REFER TO PLAN TEST CUT LOCATION #1:
 - FULLY ADHERED EPDM MEMBRANE.
 - POLYISOCYANURATE INSULATION - THICKNESS 4" - MECHANICALLY ATTACHED.
 - DENS-DECK - 1/2".
 - CORRUGATED METAL ROOF DECK - STRUCTURALLY SLOPED.
- TYPICAL AT (F' WING) MAIN GYM, ROOF AREAS - REFER TO PLAN TEST CUT LOCATIONS #2 AND #3:
 - FULLY ADHERED EPDM MEMBRANE.
 - TAPERED POLYISOCYANURATE INSULATION - THICKNESS VARIES BETWEEN 3" TO 5" - MECHANICALLY ATTACHED.
 - TAR PAPER.
 - CORRUGATED METAL ROOF DECK - FLAT.
- TYPICAL AT (E' AND F' WINGS) LOW ROOF AREAS (EXCEPT BOILER ROOM AREA) - REFER TO PLAN TEST CUT LOCATIONS #4, #5 AND #6:
 - FULLY ADHERED EPDM MEMBRANE.
 - TAPERED POLYISOCYANURATE INSULATION - THICKNESS VARIES BETWEEN 3" TO 5" - MECHANICALLY ATTACHED.
 - TAR PAPER.
 - CORRUGATED METAL ROOF DECK - FLAT.
- TYPICAL AT (E' WING) LOW ROOF AREA (OVER BOILER ROOM AREA) - REFER TO PLAN TEST CUT LOCATION #8:
 - FULLY ADHERED EPDM MEMBRANE.
 - TAPERED POLYISOCYANURATE INSULATION - THICKNESS VARIES BETWEEN 3" TO 5" - ADHERED/MECHANICALLY ATTACHED.
 - TAR PAPER.
 - CONCRETE ROOF DECK.
- TYPICAL AT (E' WING) LOW ROOF AREA (OVER CENTER AND EAST ADDITIONS) - REFER TO PLAN TEST CUT LOCATION #7:
 - FULLY ADHERED EPDM MEMBRANE.
 - POLYISOCYANURATE INSULATION - THICKNESS 4" - MECHANICALLY ATTACHED.
 - POLY.
 - CORRUGATED METAL ROOF DECK - STRUCTURALLY SLOPED.
- TYPICAL AT (B' WING) HIGH ROOF AREA - REFER TO PLAN TEST CUT LOCATIONS #9, #10 AND #11:
 - FULLY ADHERED EPDM MEMBRANE.
 - TAPERED POLYISOCYANURATE INSULATION - THICKNESS VARIES BETWEEN 3" TO 5" - MECHANICALLY ATTACHED.
 - TAR PAPER.
 - CORRUGATED METAL ROOF DECK - FLAT.

Legend

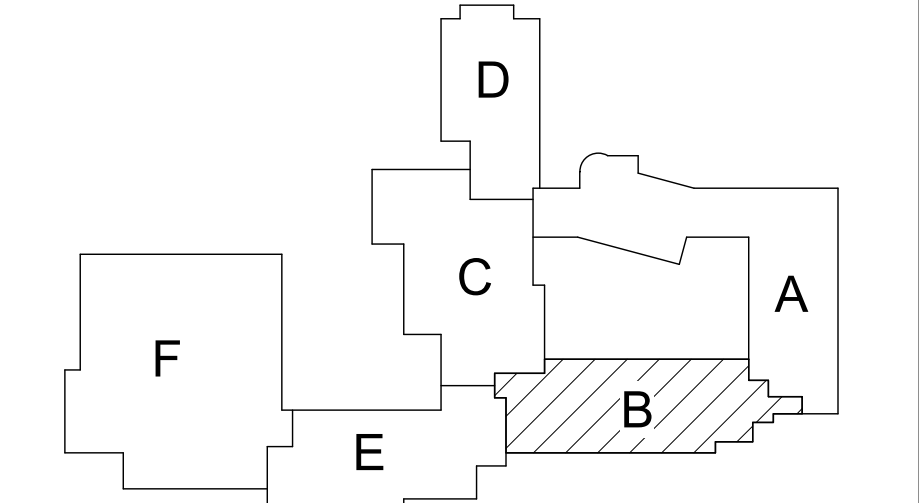
- (2011-05) arch-rlfjnd
- AREA OF TAPERED INSULATION (TYP).
 - EXISTING ROOF AREA - NO WORK
 - ROOF DRAIN INSERT IN EXISTING ROOF DRAIN (TYP). PROVIDE TAPERED SUMP.
 - DIRECTION OF DOWNSLOPE OF SLOPED STRUCTURE.
 - ROOF HATCH
 - EXPANSION JOINT (TYP).
 - DIRECTION AND DEGREE OF DOWNSLOPE OF TAPERED INSULATION (MINIMUM 1/8"/FT, TYP).
 - DIRECTION OF DOWNSLOPE OF TAPERED INSULATION CRICKET (1/2"/FT, TYP UNO).
 - TOTAL THICKNESS OF INSULATION.
 - TOTAL THICKNESS OF AREA OF FLAT INSULATION.
 - ROOF SYSTEM TYPE RS-X.
 - WALKWAY PAD (TYP).
 - PIPE PENETRATION (TYP).
 - ROOF CURB-MOUNTED VENTILATOR (TYP).
 - EQUIPMENT ON EQUIPMENT SUPPORTS (TYP).
 - CURB MOUNTED EQUIPMENT
 - WALL MOUNTED LADDER
 - PIPE OVER ROOF ON SUPPORTS
 - ABANDONED CURB TO BE REMOVED AND INFILLED
 - EXISTING MASONRY CHIMNEY
 - TEST CUT LOCATION, REFER TO EXISTING CONDITIONS NOTES

Roof Key Notes

- EXISTING VENT PIPE PENETRATION (VIF) - SEE DETAIL 1/ZA190.
- PROVIDE ROOF DRAIN INSERT AT EXISTING ROOF DRAIN - SEE DETAIL 8/ZA190.
- TAPERED INSULATION CRICKET (TYP) SLOPE 1/2"/FT. TYP ALL SIDES. VERIFY LENGTH IN FIELD. WIDTH AS INDICATED ON PLAN AND TYPICAL AT ALL CURB PENETRATIONS.
- EXISTING MECHANICAL EQUIPMENT ON CURB, SHUTDOWN, DISCONNECT, REMOVE AND STORE EQUIPMENT IN PROTECTED AREA. EXTEND/RAISE CURB, DUCTS, PIPES, CONDUITS, ETC. TO MAINTAIN REQUIRED HEIGHT ABOVE FINISHED ROOF. REINSTALL, RECONNECT AND RESTART EQUIPMENT. PROVIDE MECHANICAL ATTACHMENT. COORDINATE SHUTDOWN WITH OWNER SEE DETAIL 2/ZA190.
- EXISTING WALL MOUNTED LADDER, REMOVE, PREPARE PRIME AND PAINT WITH 'GRAY' HIGH PERFORMANCE COATING AND REINSTALL - SEE DETAIL 11/ZA190.
- EXISTING CONDENSER ON SUPPORT RAILS. SHUTDOWN, DISCONNECT, REMOVE EQUIPMENT AND SUPPORTS. STORE EQUIPMENT IN PROTECTED AREA. REINSTALL CONDENSING UNIT ON NEW SUPPORT RAILS. PROVIDE MECHANICAL ATTACHMENT AT ALL MOUNTS. EXTEND PIPES, CONDUITS, ETC. TO PROVIDE REQUIRED HEIGHT ABOVE FINISHED ROOF. PROVIDE ALL REFRIGERANT WORK IN ACCORDANCE WITH ASHRAE 15. EVACUATE AND RECLAIM REFRIGERANT R 407 AND SAVE FOR REINSTALLATION. BREAK VACUUM WITH DRY NITROGEN. HOLDING CHARGE. WEIGHT RECLAIMED REFRIGERANT AND PROMPTLY ADVISE OWNER OF DISCREPANCIES BETWEEN RECOVERED CHARGE AND MANUFACTURER'S RECOMMENDED CHARGE. CUT OUT SECTIONS OF REFRIGERANT PIPING AND REMOVE ELECTRICAL AND CONTROL WIRING AS REQUIRED. REMOVE, WHERE APPLICABLE, AND PROVIDE NEW IN ALL LOCATIONS WITH PROPERLY SIZED FILTER DRYERS AND SITE GLASSES AT ALL REPIPED UNITS. REPIPE COMPLETE. EVACUATE AND TEST PIPING AND RECHARGE WITH ORIGINAL REFRIGERANT PLUS ANY ADDITIONAL REFRIGERANT REQUIRED FOR PROPER CHARGE AS RECOMMENDED BY MANUFACTURER. INSULATE REFRIGERANT SUCTION LINES WITH 1" 102" WALL ARMATEX INSULATION AND PVC JACKET. EXTEND AND RECONNECT POWER AND CONTROL WIRING AS REQUIRED AND RESTART UNIT USING MANUFACTURER'S RECOMMENDED STARTUP PROCEDURES, RETURNING UNIT TO NORMAL, PRE-ROOFING WORK OPERATION. SEE DETAIL 3/ZA190.
- REPLACE EXPANSION JOINT AT EXISTING LOCATION. HEIGHT AS REQUIRE TO ACCOMMODATE ROOF THICKNESS - SEE DETAIL 18/ZA190.
- RAISE EXISTING THROUGH-WALL FLASHING AND PROVIDE BASE/COUNTER FLASHING - SEE DETAIL 14/ZA190.
- FLASH INTO EXISTING FULLY ADHERED EPDM ROOF SYSTEM TO REQUIREMENTS - SEE DETAIL 10/ZA190 SIMILAR.
- EXISTING WALL MOUNTED LADDER, MODIFY LENGTH OF BOTTOM SIDERAILS TO AVOID CONTACT WITH ROOF SYSTEM.
- PROVIDE ADHERED WALK PADS - SEE DETAIL 4/ZA190.
- EXISTING WALL MOUNTED LADDER, REMOVE AND REINSTALL WITH TOP RUNG ALIGNED WITH TOP OF FASCIA. MODIFY BRACKET LOCATIONS AS REQUIRED - SEE DETAIL 11/ZA190.
- PROVIDE FIXED LADDER SAFETY RAILING SYSTEM ON ADHERE² WALK PADS, MECHANICALLY ATTACHED TO LADDER HANDRAILS.
- EXISTING PIPE CURB ASSEMBLY. REMOVE EXISTING AND PROVIDE NEW PIPE CURB ASSEMBLY. SEE NOTE 6 AND DETAIL 5/ZA190.
- EXISTING FLEXIBLE PENETRATION, PROVIDE SEALER BOX - SEE DETAIL 6/ZA190.
- PIPE/DUCT PENETRATION - SEE DETAIL 7/ZA190.
- EXISTING ANTENNA, REMOVE, PROTECT AND REINSTALL - VIF.
- ROOF VERTICAL TRANSITION DETAIL, APPROXIMATE HEIGHT INDICATED ON PLAN - SEE DETAIL 12/ZA190.
- ABANDONED PENETRATION, APPROXIMATE DIMENSIONS INDICATED ON PLAN (VIF), REMOVE CURB AND PROVIDE ROOF DECK OPENING INFILL - SEE DETAIL 9/ZA190.
- ABANDONED MECHANICAL UNIT, APPROXIMATE DIMENSIONS INDICATED ON PLAN (VIF), DISCONNECT AND CAP ALL CONNECTIONS BELOW DECK, REMOVE EXISTING MECHANICAL UNIT AND CURB AND PROVIDE ROOF DECK OPENING INFILL - SEE DETAIL 9/ZA190.
- REMOVE EXISTING INSERT DRAIN AND PROVIDE ROOF DRAIN INSERT AT EXISTING ROOF DRAIN - SEE DETAIL 8/ZA190.
- HORIZONTAL PIPING OR CONDUIT ON PIPE SUPPORTS OVER ROOF TO REMAIN, REMOVE EXISTING SUPPORTS AND PROVIDE SUPPORTS ON ADHERED WALK PADS - SEE DETAIL 13/ZA190. PREPARE, PRIME AND PAINT PIPES WITH 'GRAY' HIGH PERFORMANCE COATING EXTENDING CONTINUOUS OVER ROOF EDGE TO GROUND.
- PROVIDE FASCIA SUMP WITH DOWNSPOUT ATTACHED TO COLUMN, BOTTOM ELBOW AND SPLASH BLOCK AT GRADE - SEE DETAILS 16/ZA190 AND 17/ZA190.
- REMOVE EXISTING SOFFIT PANELS AND TRIM, PROVIDE CONTINUOUS METAL PANEL SOFFIT SYSTEM
- EXISTING THROUGH-WALL OVERFLOW SCUPPER AND WALL MOUNTED SUMP, INFILL WALL OPENING AND PROVIDE THROUGH-WALL OVERFLOW SCUPPER WITH FULLY WELDED WALL SLEEVE WITH PROJECTING EXTERIOR DRIP EDGE AT 2" ABOVE ROOF ELEVATION, FLASH ROOF MEMBRANE INTO SLEEVE
- REMOVE EXISTING HATCH AND PROVIDE HATCH AND SAFETY RAILING SYSTEM. APPROXIMATE DIMENSIONS INDICATED ON PLAN (VIF) - SEE DETAIL 3/ZA191.
- PROVIDE BASE/COUNTER FLASHING BELOW EXISTING THROUGH-WALL FLASHING - SEE DETAIL 24/ZA190.
- ROOF VERTICAL TRANSITION DETAIL WITH FASCIA AT UPPER ROOF LEVEL APPROXIMATE HEIGHT INDICATED ON PLAN - SEE DETAIL 1/ZA191.

General Re-Roofing Notes

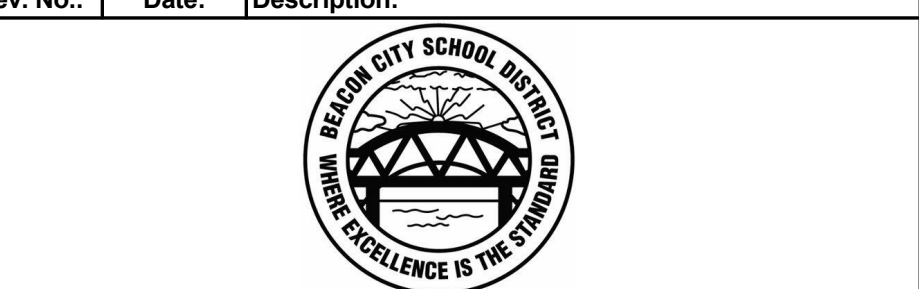
- DRAWINGS ARE REPRESENTATIVE, AND MAY NOT EXACTLY INDICATE ALL FIELD CONDITIONS.
- VERIFY IN FIELD LOCATIONS OF ALL EXISTING ROOF DRAINS AND PENETRATIONS PRIOR TO FIRST SUBMITTAL OF SHOP DRAWINGS.
- INSPECT ROOF DECK PRIOR TO ROOFING INSTALLATION. VERIFY THAT EXISTING MATERIALS ARE SOLID AND SECURE. NOTIFY ARCHITECT IMMEDIATELY IF DETERIORATED OR LOOSE MATERIALS ARE DISCOVERED.
- PROVIDE COMPLETE ROOFING INSTALLATION. REPAIR ALL ITEMS NOT SCHEDULED FOR WORK THAT ARE DAMAGED DURING ROOFING WORK.
- MAINTAIN WATERTIGHT CONDITIONS AT ALL TIMES.
- PROVIDE ROOFING SYSTEMS AND ALL RELATED COMPONENTS INDICATED BY THE CONTRACT DOCUMENTS.
- WORK INCLUDES BUT IS NOT LIMITED TO REMOVAL OF ROOFING MATERIALS, INCLUDING MEMBRANE, INSULATION, BLOCKING, CANTS, FLASHING, FASCIA, UNDER-AND OVERLAYMENT BOARDS, VAPOR BARRIERS AND RELATED ITEMS DOWN TO ROOF DECK (UNO), THOROUGHLY CLEAN ROOF DECK OF ALL DEBRIS. PREPARE AND PRIME TO ACCEPT ROOFING MATERIALS INDICATED.
- ONCE EXPOSED TO VIEW, FIELD VERIFY CONDITION OF EXISTING BLOCKING WITH ARCHITECT AND OWNER. IF DEEMED TO BE IN SERVICEABLE CONDITION, BLOCKING MAY BE PERMITTED TO REMAIN. UPON RECEIPT OF AN ACCEPTABLE CREDIT.
- REMOVE AND LEGALLY DISPOSE OF ALL MATERIALS INDICATED FOR DEMOLITION.
- REMOVE EXISTING MECHANICAL EQUIPMENT, SKYLIGHTS, HATCHES, PIPING, WIRING, CONDUITS AND MISCELLANEOUS ITEMS ON OR ADJACENT TO THE ROOF THAT IS IMPACTED BY SCHEDULED WORK (TYP, UNO). RAISE EXISTING CURBS WITH PRESERVATIVE-TREATED WOOD BLOCKING AS REQUIRED TO OBTAIN ROOFING WARRANTY SPECIFIED, BUT TO BE NOT LESS THAN MINIMUM 8" ABOVE FINISHED ROOF. EXTEND EXISTING DUCTWORK, PIPING AND ELECTRICAL CONNECTIONS AS REQUIRED, AND REINSTALL ALL EQUIPMENT AFTER ROOF INSTALLATION, MAKING PROPER MECHANICAL, ELECTRICAL AND PLUMBING CONNECTIONS. PROVIDE FOR TEMPORARY MECHANICAL, ELECTRICAL AND PLUMBING DISCONNECTS. COORDINATE SCHEDULING OF DISRUPTIONS WITH OWNER.
- EXTEND ALL VENTS AS REQUIRED TO MAINTAIN MINIMUM 18" HEIGHT ABOVE SURFACE OF FINISHED ROOF (VIF).
- WOOD BLOCKING SHALL BE PRESERVATIVE-TREATED (PTP), ALL FASTENERS TO BE STAINLESS STEEL SCREW-TYPE.
- AT ROOF DRAIN LOCATIONS, REFER TO SPECIFIC NOTES ON ROOF PLANS AND REFERENCED DETAILS FOR WORK REQUIRED. BEFORE BEGINNING CONSTRUCTION, VERIFY ALL ROOF DRAINS ARE CLEAR AND IN WORKING ORDER. REPORT ANY OBSTRUCTIONS TO ARCHITECT AND OWNER PRIOR TO BEGINNING ROOF REMOVAL.
- DO NOT DISTURB OR OVERBURDEN EXISTING ROOF AREAS THAT ARE NOT SCHEDULED FOR WORK. THIS INCLUDES HIGH FOOT TRAFFIC, POINTS OF ACCESS AND WORK PREPARATION AREAS. ALL WORK REQUIRED SHALL COMPLY WITH EXISTING ROOF SYSTEM MANUFACTURER'S WARRANTY REQUIREMENTS.
- MAINTAIN CONSTANT ROOF EDGE DATUM AND FASCIA HEIGHTS, BY ADJUSTING LAYERS AND THICKNESS OF CONTINUOUS WOOD BLOCKING TO MATCH ADJACENT INSULATION THICKNESSES (VIF).



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-004-021

Rev. No.	Date	Description



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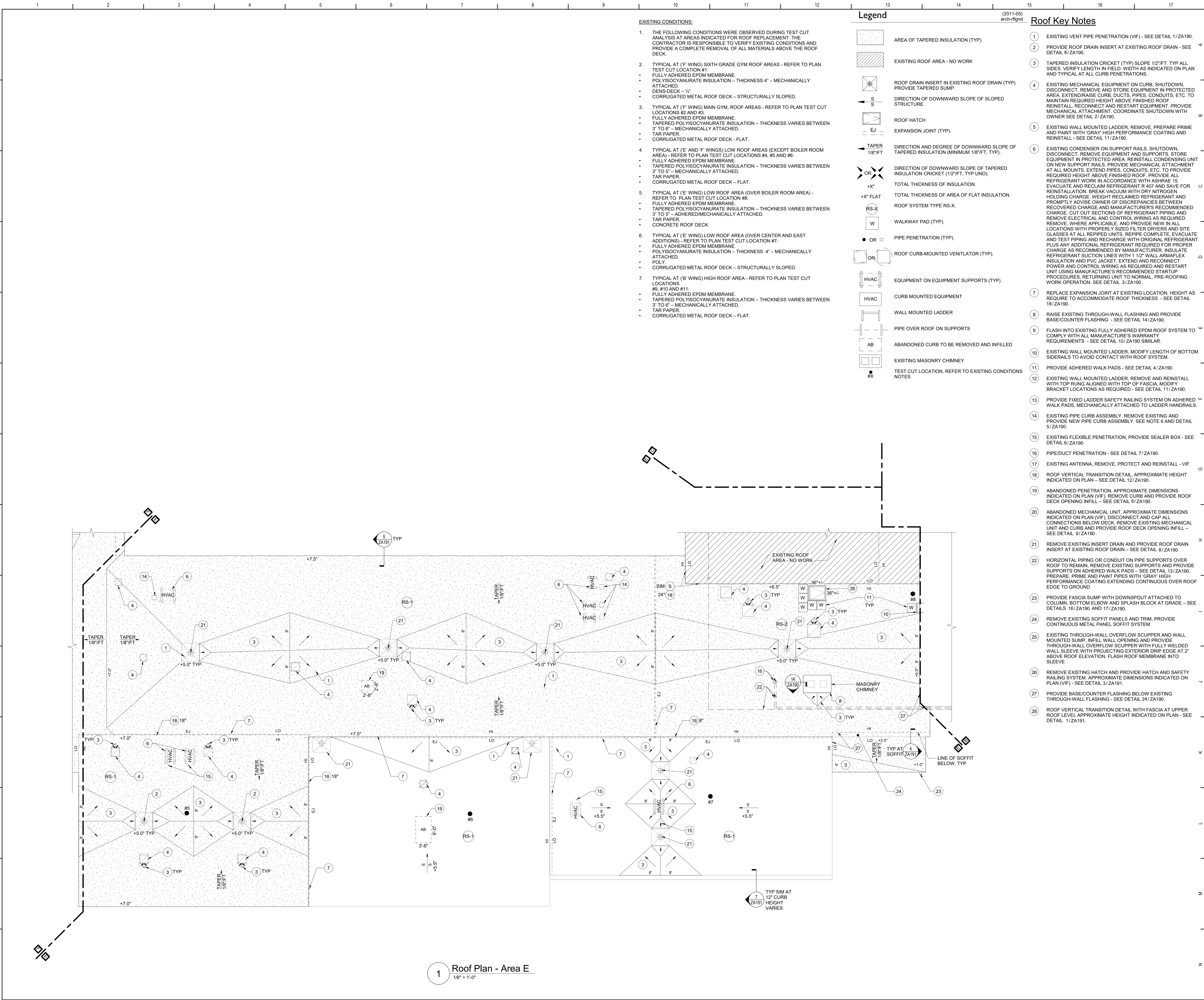


Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

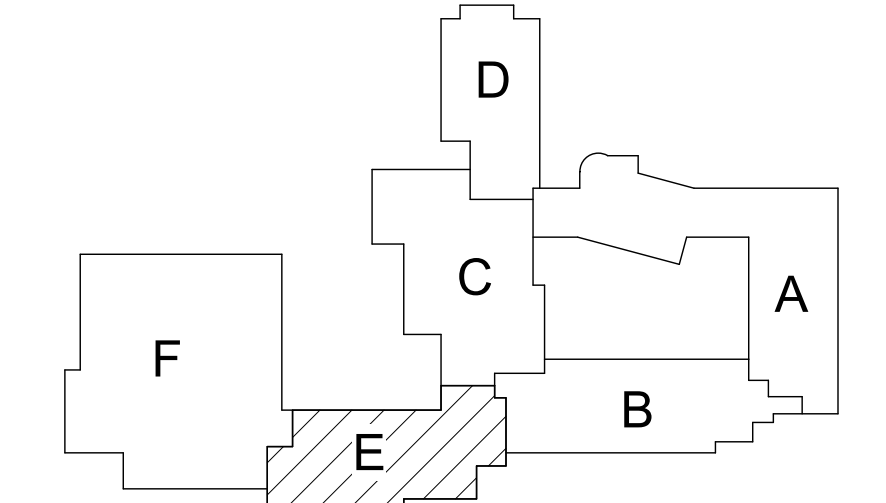
Roof Plan Area B

Drawn By: TLG	Date: 12/21/2021	Drawing Number:
Project No.: 279180-22001	EA190	



General Re-Roofing Notes

- DRAWINGS ARE REPRESENTATIVE, AND MAY NOT EXACTLY INDICATE ALL FIELD CONDITIONS.
- VERIFY IN FIELD LOCATIONS OF ALL EXISTING ROOF DRAINS AND PENETRATIONS PRIOR TO FIRST SUBMITTAL OF SHOP DRAWINGS.
- INSPECT ROOF DECK PRIOR TO ROOFING INSTALLATION. VERIFY THAT EXISTING MATERIALS ARE SOLID AND SECURE. NOTIFY ARCHITECT IMMEDIATELY IF DETERIORATED OR LOOSE MATERIALS ARE DISCOVERED.
- PROVIDE COMPLETE ROOFING INSTALLATION. REPAIR ALL ITEMS NOT SCHEDULED FOR WORK THAT ARE DAMAGED DURING ROOFING WORK.
- MAINTAIN WATERTIGHT CONDITIONS AT ALL TIMES.
- PROVIDE ROOFING SYSTEMS AND ALL RELATED COMPONENTS INDICATED BY THE CONTRACT DOCUMENTS.
- WORK INCLUDES BUT IS NOT LIMITED TO REMOVAL OF ROOFING MATERIALS, INCLUDING MEMBRANE, INSULATION, BLOCKING, CANTS, FLASHING, FASCIA, UNDER-AND-OVERLAYMENT BOARDS, VAPOR BARRIERS AND RELATED ITEMS DOWN TO ROOF DECK (UNO). THOROUGHLY CLEAN ROOF DECK OF ALL DEBRIS. PREPARE AND PRIME TO ACCEPT ROOFING MATERIALS INDICATED.
- ONCE EXPOSED TO VIEW, FIELD VERIFY CONDITION OF EXISTING BLOCKING WITH ARCHITECT AND OWNER. IF DEEMED TO BE IN SERVICEABLE CONDITION, BLOCKING MAY BE PERMITTED TO REMAIN. UPON RECEIPT OF AN ACCEPTABLE CRITIC.
- REMOVE AND LEGALLY DISPOSE OF ALL MATERIALS INDICATED FOR DEMOLITION.
- REMOVE EXISTING MECHANICAL EQUIPMENT, SKYLIGHTS, HATCHES, PIPING, WIRING, CONDUITS AND MISCELLANEOUS ITEMS ON OR ADJACENT TO THE ROOF THAT IS IMPACTED BY SCHEDULED WORK (TYP, UNO). RAISE EXISTING CURBS WITH PRESERVATIVE-TREATED WOOD BLOCKING AS REQUIRED TO OBTAIN ROOFING WARRANTY SPECIFIED, BUT TO BE NOT LESS THAN MINIMUM 8" ABOVE FINISHED ROOF. EXTEND EXISTING DUCTWORK, PIPING AND ELECTRICAL CONNECTIONS AS REQUIRED, AND REINSTALL ALL EQUIPMENT AFTER ROOF INSTALLATION, MAKING PROPER MECHANICAL, ELECTRICAL AND PLUMBING CONNECTIONS. PROVIDE FOR TEMPORARY MECHANICAL, ELECTRICAL AND PLUMBING DISCONNECTS. COORDINATE SCHEDULING OF DISRUPTIONS WITH OWNER.
- EXTEND ALL VENTS AS REQUIRED TO MAINTAIN MINIMUM 18" HEIGHT ABOVE SURFACE OF FINISHED ROOF (VIF).
- WOOD BLOCKING SHALL BE PRESERVATIVE-TREATED (PTP). ALL FASTENERS TO BE STAINLESS STEEL SCREW-TYPE.
- AT ROOF DRAIN LOCATIONS, REFER TO SPECIFIC NOTES ON ROOF PLANS AND REFERENCED DETAILS FOR WORK REQUIRED. BEFORE BEGINNING CONSTRUCTION, VERIFY ALL ROOF DRAINS ARE CLEAR AND IN WORKING ORDER. REPORT ANY OBSTRUCTIONS TO ARCHITECT AND OWNER PRIOR TO BEGINNING ROOF REMOVAL.
- DO NOT DISTURB OR OVERBURDEN EXISTING ROOF AREAS THAT ARE NOT SCHEDULED FOR WORK. THIS INCLUDES HIGH FOOT TRAFFIC, POINTS OF ACCESS AND WORK PREPARATION AREAS. ALL WORK REQUIRED SHALL COMPLY WITH EXISTING ROOF SYSTEM MANUFACTURER'S WARRANTY REQUIREMENTS.
- MAINTAIN CONSTANT ROOF EDGE DATUM AND FASCIA HEIGHTS. BY ADJUSTING LAYERS AND THICKNESS OF CONTINUOUS WOOD BLOCKING TO MATCH ADJACENT INSULATION THICKNESSES (VIF).



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-004-021

Rev. No.	Date	Description



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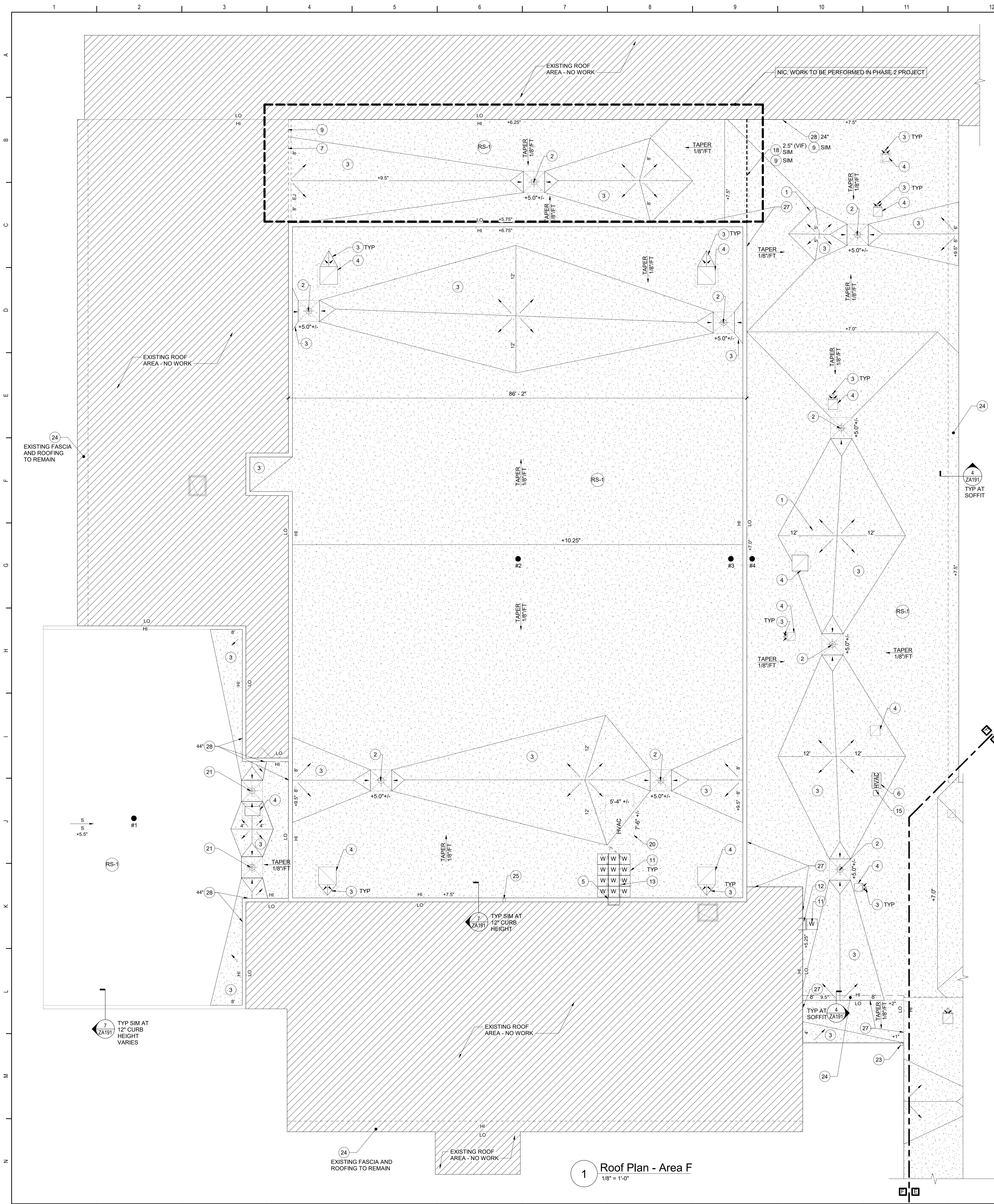


Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

Roof Plan Area E

Drawn By: TLG	Date: 12/21/2021	Drawing Number:
Project No.: 279180-22001		EA191



Legend

- AREA OF TAPERED INSULATION (TYP).
- EXISTING ROOF AREA - NO WORK
- ROOF DRAIN INSERT IN EXISTING ROOF DRAIN (TYP). PROVIDE TAPERED SUMP.
- DIRECTION OF DOWNWARD SLOPE OF SLOPED STRUCTURE.
- ROOF HATCH
- EXPANSION JOINT (TYP).
- DIRECTION AND DEGREE OF DOWNWARD SLOPE OF TAPERED INSULATION (MINIMUM 1/8\"/>
- DIRECTION OF DOWNWARD SLOPE OF TAPERED INSULATION CRICKET (1/2\"/>
- TOTAL THICKNESS OF INSULATION.
- TOTAL THICKNESS OF AREA OF FLAT INSULATION.
- ROOF SYSTEM TYPE RS-X.
- WALKWAY PAD (TYP).
- PIPE PENETRATION (TYP).
- ROOF CURB-MOUNTED VENTILATOR (TYP).
- EQUIPMENT ON EQUIPMENT SUPPORTS (TYP).
- CURB MOUNTED EQUIPMENT
- WALL MOUNTED LADDER
- PIPE OVER ROOF ON SUPPORTS
- ABANDONED CURB TO BE REMOVED AND INFILLED
- EXISTING MASONRY CHIMNEY
- TEST CUT LOCATION, REFER TO EXISTING CONDITIONS NOTES

EXISTING CONDITIONS:

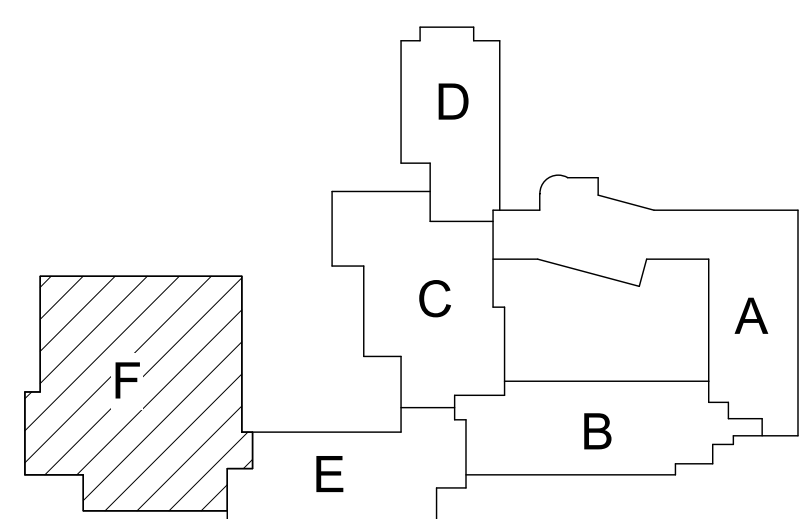
- THE FOLLOWING CONDITIONS WERE OBSERVED DURING TEST CUT ANALYSIS AT AREAS INDICATED FOR ROOF REPLACEMENT. THE CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING CONDITIONS AND PROVIDE A COMPLETE REMOVAL OF ALL MATERIALS ABOVE THE ROOF DECK.
 - TYPICAL AT (F' WING) SIXTH GRADE GYM ROOF AREAS - REFER TO PLAN TEST CUT LOCATIONS #1, #2, #3, #4, #5, #6, #7, #8, #9, #10, #11, #12, #13, #14, #15, #16, #17, #18, #19, #20, #21, #22, #23, #24, #25, #26, #27, #28, #29, #30, #31, #32, #33, #34, #35, #36, #37, #38, #39, #40, #41, #42, #43, #44, #45, #46, #47, #48, #49, #50, #51, #52, #53, #54, #55, #56, #57, #58, #59, #60, #61, #62, #63, #64, #65, #66, #67, #68, #69, #70, #71, #72, #73, #74, #75, #76, #77, #78, #79, #80, #81, #82, #83, #84, #85, #86, #87, #88, #89, #90, #91, #92, #93, #94, #95, #96, #97, #98, #99, #100.
- TYPICAL AT (F' WING) MAIN GYM ROOF AREAS - REFER TO PLAN TEST CUT LOCATIONS #2 AND #3.
 - FULLY ADHERED EPDM MEMBRANE.
 - POLYISOCYANURATE INSULATION - THICKNESS 4\"/>
 - DENS-DECK - 1/2\"/>
 - CORRUGATED METAL ROOF DECK - STRUCTURALLY SLOPED.
- TYPICAL AT (F' WING) MAIN GYM ROOF AREAS - REFER TO PLAN TEST CUT LOCATIONS #2 AND #3.
 - FULLY ADHERED EPDM MEMBRANE.
 - TAPERED POLYISOCYANURATE INSULATION - THICKNESS VARIES BETWEEN 3\"/>
 - TAR PAPER.
 - CORRUGATED METAL ROOF DECK - FLAT.
- TYPICAL AT (E' AND F' WINGS) LOW ROOF AREAS (EXCEPT BOILER ROOM AREA) - REFER TO PLAN TEST CUT LOCATIONS #4, #5 AND #6.
 - FULLY ADHERED EPDM MEMBRANE.
 - TAPERED POLYISOCYANURATE INSULATION - THICKNESS VARIES BETWEEN 3\"/>
 - TAR PAPER.
 - CORRUGATED METAL ROOF DECK - FLAT.
- TYPICAL AT (E' WING) LOW ROOF AREA (OVER BOILER ROOM AREA) - REFER TO PLAN TEST CUT LOCATION #6.
 - FULLY ADHERED EPDM MEMBRANE.
 - TAPERED POLYISOCYANURATE INSULATION - THICKNESS VARIES BETWEEN 3\"/>
 - TAR PAPER.
 - POLY.
 - CORRUGATED METAL ROOF DECK - STRUCTURALLY SLOPED.
- TYPICAL AT (E' WING) LOW ROOF AREA (OVER CENTER AND EAST ADDITIONS) - REFER TO PLAN TEST CUT LOCATION #7.
 - FULLY ADHERED EPDM MEMBRANE.
 - POLYISOCYANURATE INSULATION - THICKNESS 4\"/>
 - ATTACHED.
 - POLY.
 - CORRUGATED METAL ROOF DECK - FLAT.
- TYPICAL AT (B' WING) HIGH ROOF AREA - REFER TO PLAN TEST CUT LOCATIONS #9, #10 AND #11.
 - FULLY ADHERED EPDM MEMBRANE.
 - TAPERED POLYISOCYANURATE INSULATION - THICKNESS VARIES BETWEEN 3\"/>
 - TAR PAPER.
 - CORRUGATED METAL ROOF DECK - FLAT.

Roof Key Notes

- EXISTING VENT PIPE PENETRATION (VIF) - SEE DETAIL 1/ZA190.
- PROVIDE ROOF DRAIN INSERT AT EXISTING ROOF DRAIN - SEE DETAIL 8/ZA190.
- TAPERED INSULATION CRICKET (TYP) SLOPE 1/2\"/>
- EXISTING MECHANICAL EQUIPMENT ON CURB. SHUTDOWN, DISCONNECT, REMOVE AND STORE EQUIPMENT IN PROTECTED AREA. EXTEND/RAISE CURB, DUCTS, PIPES, CONDUITS, ETC. TO MAINTAIN REQUIRED HEIGHT ABOVE FINISHED ROOF. REINSTALL, RECONNECT AND RESTART EQUIPMENT. PROVIDE MECHANICAL ATTACHMENT. COORDINATE SHUTDOWN WITH OWNER. SEE DETAIL 2/ZA190.
- EXISTING WALL MOUNTED LADDER. REMOVE, PREPARE PRIME AND PAINT WITH 'GRAY' HIGH PERFORMANCE COATING AND REINSTALL - SEE DETAIL 11/ZA190.
- EXISTING CONDENSER ON SUPPORT RAILS. SHUTDOWN, DISCONNECT, REMOVE EQUIPMENT AND SUPPORTS. STORE EQUIPMENT IN PROTECTED AREA. REINSTALL CONDENSING UNIT ON NEW SUPPORT RAILS. PROVIDE MECHANICAL ATTACHMENT AT ALL MOUNTS. EXTEND PIPES, CONDUITS, ETC. TO PROVIDE REQUIRED HEIGHT ABOVE FINISHED ROOF. PROVIDE ALL REFRIGERANT WORK IN ACCORDANCE WITH ASHRAE 15. EVACUATE AND RECLAIM REFRIGERANT R 407 AND SAVE FOR REINSTALLATION. BREAK VACUUM WITH DRY NITROGEN HOLDING CHARGE. WEIGHT RECLAIMED REFRIGERANT AND PROMPTLY ADVISE OWNER OF DISCREPANCIES BETWEEN RECOVERED CHARGE AND MANUFACTURER'S RECOMMENDED CHARGE. CUT OUT SECTIONS OF REFRIGERANT PIPING AND REMOVE ELECTRICAL AND CONTROL WIRING AS REQUIRED. REMOVE, WHERE APPLICABLE, AND PROVIDE NEW IN ALL LOCATIONS WITH PROPERLY SIZED FILTER DRYERS AND SITE GLASSES AT ALL REPIPED UNITS. REPIPE COMPLETE. EVACUATE AND TEST PIPING AND RECHARGE WITH ORIGINAL REFRIGERANT INSULATION AND PVC JACKET. EXTEND AND RECONNECT POWER AND CONTROL WIRING AS REQUIRED AND RESTART UNIT USING MANUFACTURER'S RECOMMENDED STARTUP PROCEDURES. RETURNING UNIT TO NORMAL, PRE-ROOFING WORK OPERATION. SEE DETAIL 3/ZA190.
- REPLACE EXPANSION JOINT AT EXISTING LOCATION, HEIGHT AS REQUIRED TO ACCOMMODATE ROOF THICKNESS - SEE DETAIL 18/ZA190.
- RAISE EXISTING THROUGH-WALL FLASHING AND PROVIDE BASE/COUNTER FLASHING - SEE DETAIL 14/ZA190.
- FLASH INTO EXISTING FULLY ADHERED EPDM ROOF SYSTEM TO COMPLY WITH ALL MANUFACTURER'S WARRANTY REQUIREMENTS - SEE DETAIL 10/ZA190. SIMILAR.
- EXISTING WALL MOUNTED LADDER, MODIFY LENGTH OF BOTTOM SIDERAILS TO AVOID CONTACT WITH ROOF SYSTEM.
- PROVIDE ADHERED WALK PADS - SEE DETAIL 4/ZA190.
- EXISTING WALL MOUNTED LADDER, REMOVE AND REINSTALL WITH TOP RUNS ALIGNED WITH TOP OF FASCIA, MODIFY BRACKET LOCATIONS AS REQUIRED - SEE DETAIL 11/ZA190.
- PROVIDE FIXED LADDER SAFETY RAILING SYSTEM ON ADHERED WALK PADS, MECHANICALLY ATTACHED TO LADDER HANDRAILS.
- EXISTING PIPE CURB ASSEMBLY. REMOVE EXISTING AND PROVIDE NEW PIPE CURB ASSEMBLY. SEE NOTE 6 AND DETAIL 5/ZA190.
- EXISTING FLEXIBLE PENETRATION, PROVIDE SEALER BOX - SEE DETAIL 6/ZA190.
- PIPE/DUCT PENETRATION - SEE DETAIL 7/ZA190.
- EXISTING ANTENNA, REMOVE, PROTECT AND REINSTALL - VIF.
- ROOF VERTICAL TRANSITION DETAIL, APPROXIMATE HEIGHT INDICATED ON PLAN - SEE DETAIL 12/ZA190.
- ABANDONED PENETRATION, APPROXIMATE DIMENSIONS INDICATED ON PLAN (VIF). REMOVE CURB AND PROVIDE ROOF DECK OPENING INFILL - SEE DETAIL 9/ZA190.
- ABANDONED MECHANICAL UNIT, APPROXIMATE DIMENSIONS INDICATED ON PLAN (VIF). DISCONNECT AND CAP ALL CONNECTIONS BELOW DECK. REMOVE EXISTING MECHANICAL UNIT AND CURB AND PROVIDE ROOF DECK OPENING INFILL - SEE DETAIL 8/ZA190.
- REMOVE EXISTING INSERT DRAIN AND PROVIDE ROOF DRAIN INSERT AT EXISTING ROOF DRAIN - SEE DETAIL 8/ZA190.
- HORIZONTAL PIPING OR CONDUIT ON PIPE SUPPORTS OVER ROOF TO REMAIN, REMOVE EXISTING SUPPORTS AND PROVIDE SUPPORTS ON ADHERED WALK PADS - SEE DETAIL 13/ZA190. PREPARE, PRIME AND PAINT PIPES WITH 'GRAY' HIGH PERFORMANCE COATING EXTENDING CONTINUOUS OVER ROOF EDGE TO GROUND.
- PROVIDE FASCIA SUMP WITH DOWNSPOUT ATTACHED TO COLUMN, BOTTOM ELBOW AND SPLASH BLOCK AT GRADE - SEE DETAILS 16/ZA190 AND 17/ZA190.
- REMOVE EXISTING SOFFIT PANELS AND TRIM, PROVIDE CONTINUOUS METAL PANEL SOFFIT SYSTEM.
- EXISTING THROUGH-WALL OVERFLOW SCUPPER AND WALL MOUNTED SUMP. INFILL WALL OPENING AND PROVIDE THROUGH-WALL OVERFLOW SCUPPER WITH FULLY WELDED WALL SLEEVE WITH PROJECTING EXTERIOR DRIP EDGE AT 2\"/>
- REMOVE EXISTING HATCH AND PROVIDE HATCH AND SAFETY RAILING SYSTEM. APPROXIMATE DIMENSIONS INDICATED ON PLAN (VIF) - SEE DETAIL 3/ZA191.
- PROVIDE BASE/COUNTER FLASHING BELOW EXISTING THROUGH-WALL FLASHING - SEE DETAIL 24/ZA190.
- ROOF VERTICAL TRANSITION DETAIL WITH FASCIA AT UPPER ROOF LEVEL APPROXIMATE HEIGHT INDICATED ON PLAN - SEE DETAIL 1/ZA191.

General Re-Roofing Notes

- DRAWINGS ARE REPRESENTATIVE, AND MAY NOT EXACTLY INDICATE ALL FIELD CONDITIONS.
- VERIFY IN FIELD LOCATIONS OF ALL EXISTING ROOF DRAINS AND PENETRATIONS PRIOR TO FIRST SUBMITTAL OF SHOP DRAWINGS.
- INSPECT ROOF DECK PRIOR TO ROOFING INSTALLATION. VERIFY THAT EXISTING MATERIALS ARE SOLID AND SECURE. NOTIFY ARCHITECT IMMEDIATELY IF DETERIORATED OR LOOSE MATERIALS ARE DISCOVERED.
- PROVIDE COMPLETE ROOFING INSTALLATION. REPAIR ALL ITEMS NOT SCHEDULED FOR WORK THAT ARE DAMAGED DURING ROOFING WORK.
- MAINTAIN WATERTIGHT CONDITIONS AT ALL TIMES.
- PROVIDE ROOFING SYSTEMS AND ALL RELATED COMPONENTS INDICATED BY THE CONTRACT DOCUMENTS.
- WORK INCLUDES BUT IS NOT LIMITED TO REMOVAL OF ROOFING MATERIALS, INCLUDING MEMBRANE, INSULATION, BLOCKING, CANTS, FLASHING, FASCIA, UNDER- AND OVERLAYMENT BOARDS, VAPOR BARRIERS AND RELATED ITEMS DOWN TO ROOF DECK (UNO). THOROUGHLY CLEAN ROOF DECK OF ALL DEBRIS. PREPARE AND PRIME TO ACCEPT ROOFING MATERIALS INDICATED.
- ONCE EXPOSED TO VIEW, FIELD VERIFY CONDITION OF EXISTING BLOCKING WITH ARCHITECT AND OWNER. IF DEEMED TO BE IN SERVICEABLE CONDITION, BLOCKING MAY BE PERMITTED TO REMAIN. UPON RECEIPT OF AN ACCEPTABLE CREDIT.
- REMOVE AND LEGALLY DISPOSE OF ALL MATERIALS INDICATED FOR DEMOLITION.
- REMOVE EXISTING MECHANICAL EQUIPMENT, SKYLIGHTS, HATCHES, PIPING, WIRING, CONDUITS AND MISCELLANEOUS ITEMS ON OR ADJACENT TO THE ROOF THAT IS IMPACTED BY SCHEDULED WORK (TYP, UNO). RAISE EXISTING CURBS WITH PRESERVATIVE-TREATED WOOD BLOCKING AS REQUIRED TO OBTAIN ROOFING WARRANTY SPECIFIED, BUT TO BE NOT LESS THAN MINIMUM 8\"/>
- EXTEND ALL VENTS AS REQUIRED TO MAINTAIN MINIMUM 18\"/>
- WOOD BLOCKING SHALL BE PRESERVATIVE-TREATED (PTP). ALL FASTENERS TO BE STAINLESS STEEL SCREW-TYPE.
- AT ROOF DRAIN LOCATIONS, REFER TO SPECIFIC NOTES ON ROOF PLANS AND REFERENCED DETAILS FOR WORK REQUIRED. BEFORE BEGINNING CONSTRUCTION, VERIFY ALL ROOF DRAINS ARE CLEAR AND IN WORKING ORDER. REPORT ANY OBSTRUCTIONS TO ARCHITECT AND OWNER PRIOR TO BEGINNING ROOF REMOVAL.
- DO NOT DISTURB OR OVERBURDEN EXISTING ROOF AREAS THAT ARE NOT SCHEDULED FOR WORK. THIS INCLUDES HIGH FOOT TRAFFIC, POINTS OF ACCESS AND WORK PREPARATION AREAS. ALL WORK REQUIRED SHALL COMPLY WITH EXISTING ROOF SYSTEM MANUFACTURER'S WARRANTY REQUIREMENTS.
- MAINTAIN CONSTANT ROOF EDGE DATUM AND FASCIA HEIGHTS, BY ADJUSTING LAYERS AND THICKNESS OF CONTINUOUS WOOD BLOCKING TO MATCH ADJACENT INSULATION THICKNESSES (VIF).



Key Plan
N.T.S.

S.E.D. Control No. 13-02-00-01-0-004-021

Rev. No.	Date	Description



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Tetra Tech Engineers, Architects & Landscape Architects, P.C.



Beacon City School District
Beacon, New York

Reconstruction to:
Rombout Middle School

Roof Plan Area F

Drawn By: TLG	Date: 12/21/2021	Drawing Number:
Project No.: 279180-22001	EA192	

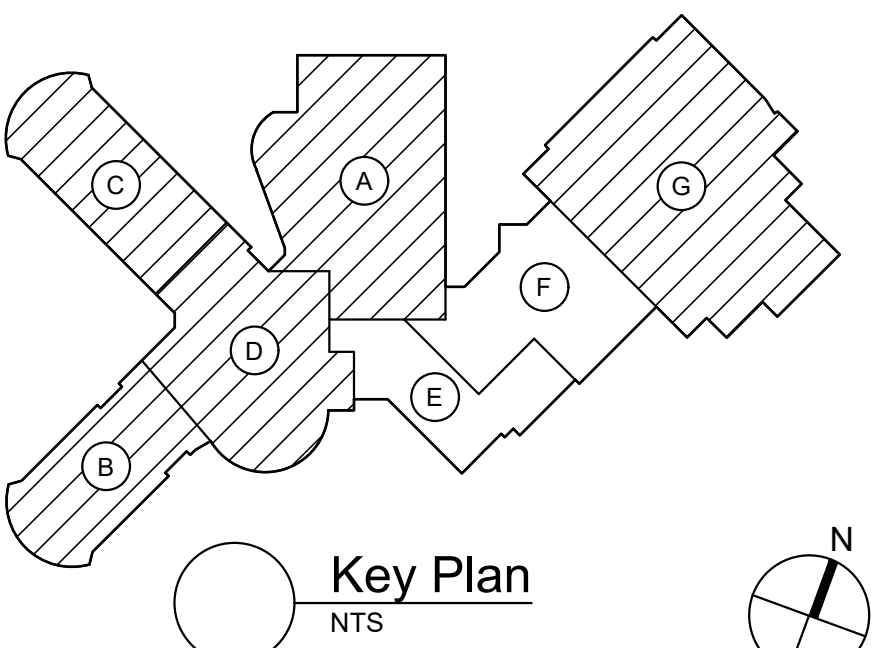
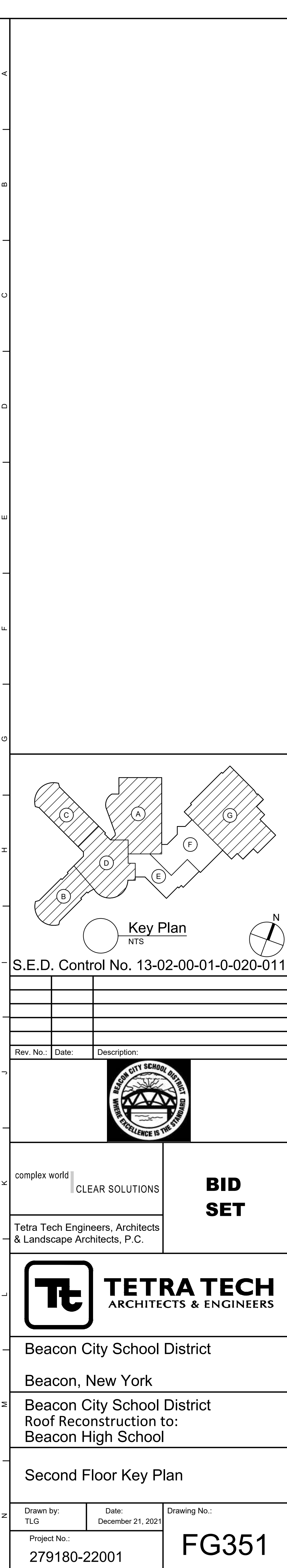
ENERGY CODE DUTCHESS COUNTY - CLIMATE ZONE 5A

TOTAL GROSS AREA= 207,000 SQFT

NEW CONSTRUCTION WILL COMPLY WITH REQUIREMENTS
OF 2020 NEW YORK STATE BUILDING CODE

FG350

First Floor Key Plan



- S.E.D. Control No. 13-02-00-01-0-020-011

Rev. No.:	Date:	Description:

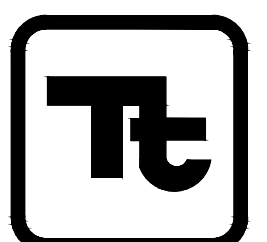
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BID SET

— Tetra Tech Engineers, Architects
& Landscape Architects, P.C.



TETRA TECH
ARCHITECTS & ENGINEERS

Beacon City School District

Beacon, New York

Beacon City School District
Roof Reconstruction to:
Beacon High School

Second Floor Key Plan

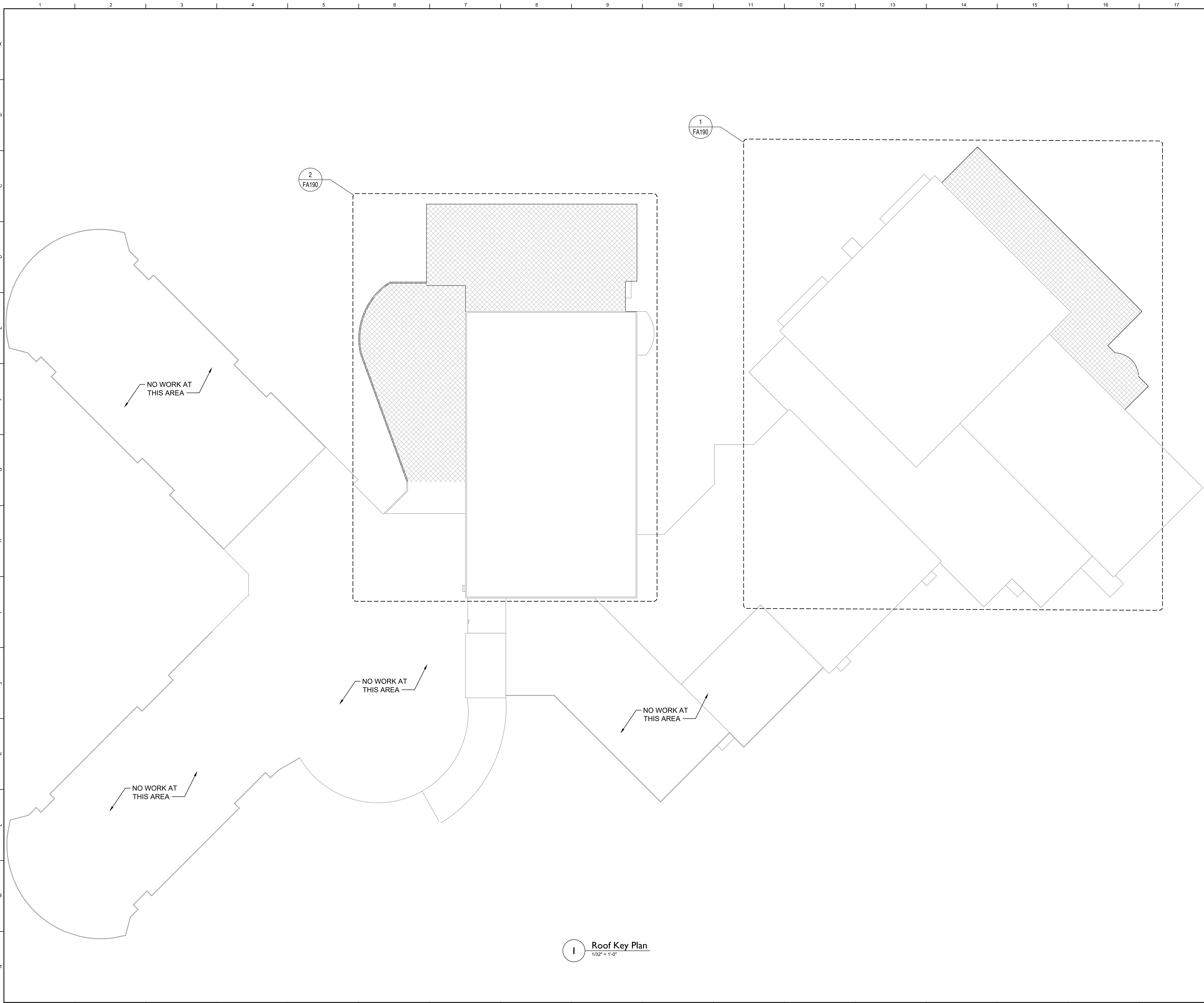
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TLG	December 21, 2021
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Project No.:
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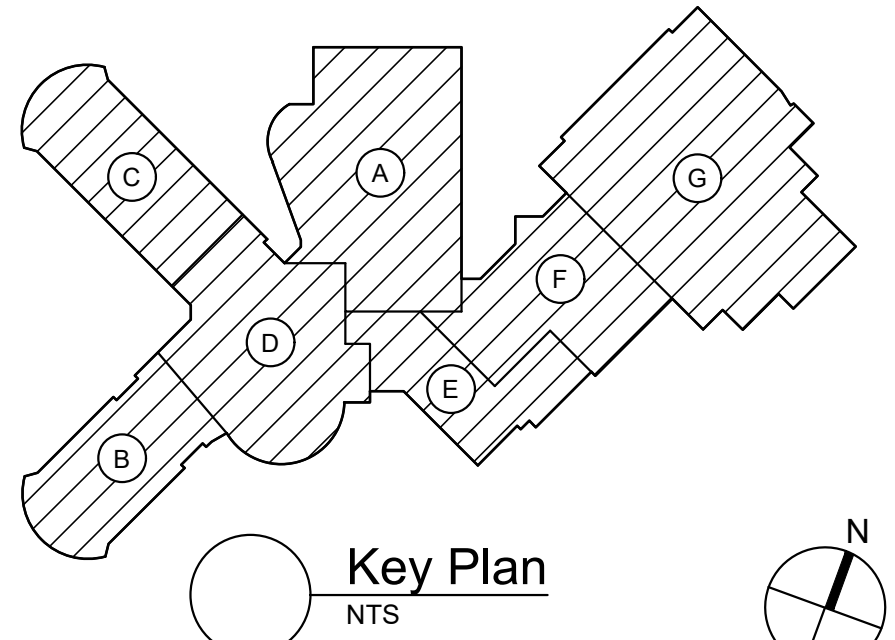
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Second Floor Key Plan



- General Notes**
- A. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS.
 - B. TAKE FIELD MEASUREMENTS TO FIT THE WORK PROPERLY. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD.
 - C. REFER INCONSISTENCIES TO ARCHITECT PRIOR TO COMMENCING THE WORK IN AFFECTED AREA.
 - D. ITEMS ARE SHOWN DIAGRAMMATICALLY ON DRAWINGS. VERIFY SPACE REQUIREMENTS AND DIMENSIONS TO FIT THE WORK PROPERLY.
 - E. NOTES SHOWN ON ONE DRAWING APPLY TO ALL SIMILAR DRAWINGS.
 - F. DO NOT DISTURB CONSTRUCTION SUSPECTED OF CONTAINING HAZARDOUS MATERIAL. IF ENCOUNTERED, IMMEDIATELY NOTIFY ARCHITECT, CONSTRUCTION MANAGER, AND OWNER.

 AREAS OF ROOF WORK.



S.E.D. Control No. 13-02-00-01-0-020-011

Rev. No.:	Date:	Description:



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Beacon City School District

Beacon, New York

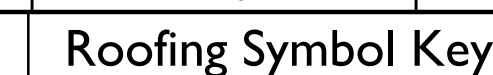
Beacon City School District
Roof Reconstruction to:
Beacon High School

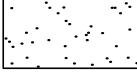
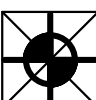
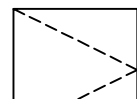
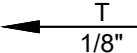
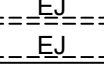
Roof Key Plan

Drawn by: TLG	Date: December 21, 2021	Drawing No.: FA050
Project No.: 279180-22001		



1. THE FOLLOWING CONDITIONS WERE OBSERVED DURING TEST CUT ANALYSIS AT AREAS INDICATED FOR ROOF REPLACEMENT. THE CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING CONDITIONS AND PROVIDE A COMPLETE REMOVAL OF ALL MATERIALS ABOVE THE ROOF DECK.
2. TYPICAL AT ALL ROOF AREAS:
 - FULLY ADHERED EPDM MEMBRANE.
 - TAPERED POLYISOCYANURATE INSULATION - THICKNESS VARIES BETWEEN 2" TO 5" - MECHANICALLY ATTACHED.
 - PERLITE - 1/4".
 - CORRUGATED METAL ROOF DECK - FLAT.



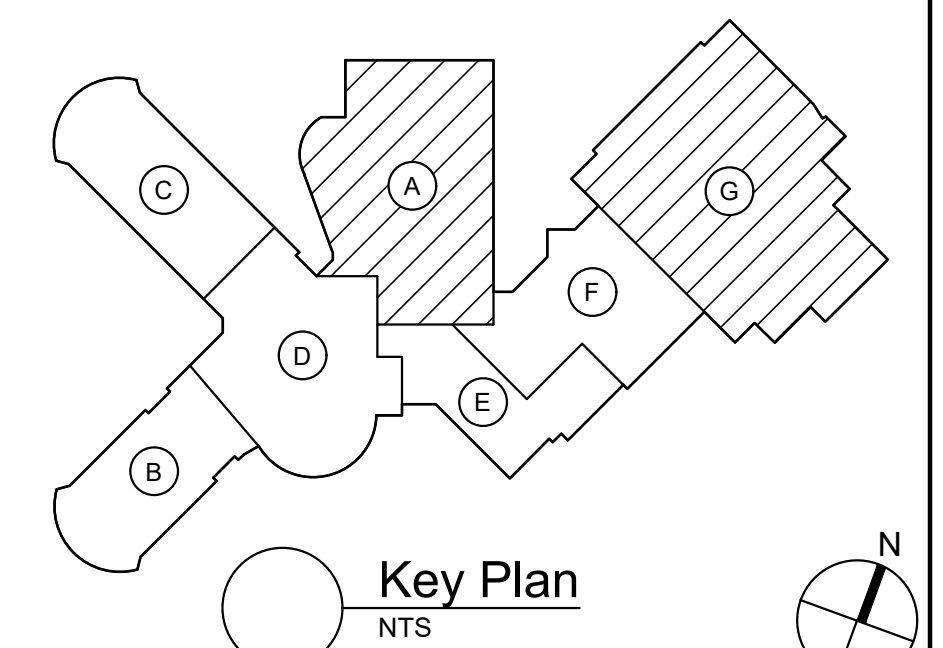
- | | |
|---|---|
|  | TAPERED INSULATION. |
|  | EXISTING ROOF AREA - NO WORK |
|  | ROOF DRAIN INSERT IN EXISTING ROOF DRAIN (TYP).
PROVIDE TAPERED SUMP |
|  | ROOF HATCH |
|  | DIRECTION OF DOWNWARD SLOPE OF TAPERED INSULATION
CRICKET (3/4"FT. TYP UNO) |
|  | DIRECTION OF DOWNWARD SLOPE AND DEGREE OF SLOPE
OF TAPERED INSULATION (MINIMUM 1/8"FT. TYP UNO). |
|  | TOTAL THICKNESS OF INSULATION. |
|  | DESIGNATES ROOF SYSTEM TYPE. |
|  | WALKWAY PAD |
|  | PLUMBING VENT PIPE PENETRATION |
|  | HOT PIPE PENETRATION |
|  | WALL MOUNTED LADDER |
|  | OR |
|  | CURB-MOUNTED VENTILATOR |
|  | EQUIPMENT ON EQUIPMENT SUPPORTS (TYP) |
|  | EXPANSION JOINT |
|  | TEST CUT LOCATION, REFER TO EXISTING CONDITIONS
NOTES |

	Keyed Notes
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- 1 EXISTING VENT PIPE PENETRATION (V/P) - SEE DETAIL 1/2A/190.
- 2 PROVIDE ROOF DRAIN INSERT AT EXISTING ROOF DRAIN - SEE DETAIL 2A/21A/90.
- 3 TAPERED INSULATION CRICKET (TYP.) SLOPE 1/12" TYP. AT ALL SIDES. VERIFY LENGTH AT FIELD WIDTH AS INDICATED ON PLAN AND TYPICAL AT ALL CURB PENETRATIONS.
- 4 EXISTING MECHANICAL EQUIPMENT ON CURB, SHUTDOWN, DISCONNECT, REMOVE AND STORE EQUIPMENT IN PROTECTED AREA. EXTEND/REPLACE CURB, DUCTS, PIPES, CONDUITS, ETC. TO MAINTAIN REQUIRED HEIGHT ABOVE FINISHED FLOOR. REINSTALL, RECONNECT AND RESTART EQUIPMENT. PROVIDE MECHANICAL ATTACHMENT, COORDINATE SHUTDOWN WITH OWNER SEE DETAIL 2/2A/190.
- 5 EXISTING DOOR, FRAME AND HARDWARE TO BE REPLACED. PROVIDE RAISED THRESHOLD/CURB. SEE DETAIL 1/2A/190/190.
- 6 EXISTING CONDENSER ON SUPPORT RAILS, SHUTDOWN, DISCONNECT, REMOVE EQUIPMENT AND SUPPORTS. STORE EQUIPMENT IN PROTECTED AREA. REINSTALL CONDENSING UNIT ON NEW SUPPORT RAILS. PROVIDE MECHANICAL ATTACHMENT AT ALL MOUNTS. EXTEND PIPES, CONDUITS, ETC. TO MAINTAIN REQUIRED HEIGHT ABOVE FINISHED FLOOR. ALL REFRIGERANT WORK IN ACCORDANCE WITH A/C SYSTEMS ASHRAE 15, EVACUATE AND RECLAIM REFRIGERANT R 407 AND SAVE FOR REINSTALLATION. BRASS VACUUM WITH DRY NITROGEN HIGH VACUUM CHARGE. VERIFY REQUIRED RECLAMER AND PROMPTLY ADVISE OWNER OF DISCREPANCIES BETWEEN RECOVERED CHARGE AND MANUFACTURER'S RECOMMENDED CHARGE. CUT OUT SECTIONS OF REFRIGERANT PIPING AND REMOVE ELECTRICAL AND CONTROL WIRING AS REQUIRED. REMOVE, WHERE APPLICABLE, AND PROVIDE NEW IN ALL LOCATIONS, WITH PROPERLY SIZED FILL DRYERS AND RECHARGE REFRIGERANT PIPING TO MAINTAIN REFRIGERANT SYSTEM AND TIE PIPING AND RECHARGE WITH ORIGINAL REFRIGERANT PLUS ANY ADDITIONAL REFRIGERANT REQUIRED FOR PROPER CHARGE AS REQUIRED. REPAIR AT ALL LEAKS. REPAIR OR REPLACE REFRIGERANT SPLIT LINES WITH 1/2" WALL ARMAFLEX INSULATION AND PVC JACKET. EXTEND AND RECONNECT POWER AND CONTROL WIRING AS REQUIRED. REMOVE AND REPAIR OR REPLACE ELECTRICAL AND CONTROL STARTUP DEVICES, RETURNING UNIT TO NORMAL, PRE-OPERENDING WORK OPERATION. SEE DETAIL 3/2A/190/190.
- 7 REPLACE EXPANSION JOINT AT EXISTING LOCATION, HEIGHT AS REQUIRED TO ACCOMMODATE ROOF THICKNESS - SEE DETAILS 2/12A/190 AND 8/2A/190.
- 8 RASE EXISTING THROUGH-WALL FLASHING AND PROVIDE BUILT-UP WATER FLASHING AND DETAIL 2/12A/190.
- 9 FLASH INTO EXISTING RAIL ADHERED EPOX ROOF SYSTEM TO COMPLY WITH ALL MANUFACTURERS WARRANTY REQUIREMENTS - SEE DETAIL 1/02A/190.
- 10 EXISTING WALL MOUNTED LADDER, MODIFY LENGTH OF BOTTOM SIDERAILS TO AVOID CONTACT WITH ROOF SYSTEM.
- 11 PROVIDE ADHERED WALK PADS - SEE DETAIL 4/2A/190.
- 12 EXISTING WALL MOUNTED LADDER, REMOVE, PREPARE PRIME AND PAINT WITH "GRAY" HIGH PERFORMANCE COATING AND REINSTALL WITH TOP RUNG ALIGNED WITH TOP OF FASCIA - SEE DETAIL 11/2A/190.
- 13 PROVIDE MOVABLE SAFETY RAILING SYSTEM ON ADHERED WALK PADS, MECHANICALLY ATTACHED TO WALL.
- 14 PROVIDE FACTORY FABRICATED RADIIUS FASCIA TO MATCH RADIIUS OF SUBSTRATE - VIF.
- 15 REMOVE EXISTING AND PROVIDE WALL MOUNTED PIPING, INSULATION AND REINSTALL, COORDINATED WITH ROOFTOP CONDENSER - VIF.
- 16 EXISTING DOOR FRAME AND HARDWARE TO REMAIN. REMOVE AND REINSTALL EXISTING THRESHOLD, FLASH MEMBRANE OVER CURB. SEE DETAIL 1/2A/190 SIM.

General Notes

- A. DRAWINGS ARE REPRESENTATIVE, AND MAY NOT EXACTLY INDICATE ALL FIELD CONDITIONS.
- B. VERIFY IN FIELD LOCATIONS OF ALL EXISTING ROOF DRAINS AND PENETRATIONS PRIOR TO FIRST SUBMITTAL OF SHOP DRAWINGS.
- C. INSPECT ROOF DECK PRIOR TO ROOFING INSTALLATION. VERIFY THAT EXISTING MATERIALS ARE SOLID AND SECURE. NOTIFY ARCHITECT IMMEDIATELY IF DETEIORATED OR LOOSE MATERIALS ARE DISCOVERED.
- D. PROVIDE COMPLETE ROOFING INSTALLATION. REPAIR ALL ITEMS NOT SCHEDULED FOR WORK THAT ARE DAMAGED DURING ROOFING WORK.
- E. MAINTAIN WATERTIGHT CONDITIONS AT ALL TIMES.
- F. PROVIDE ROOFING SYSTEMS AND ALL RELATED COMPONENTS INDICATED BY THE CONTRACT DOCUMENTS.
- G. WORK INCLUDES BUT IS NOT LIMITED TO REMOVAL OF ROOFING MATERIALS INCLUDING MEMBRANE, INSULATION, BLOCKING, GUTS, FLASHING, FASCIA, UNDER- AND OVERLAYMENT BOARDS, VAPOR BARRIERS AND RELATED ITEMS DOWN TO ROOF DECK (UNO). THOROUGHLY CLEAN ROOF DECK OF ALL DEBRIS, PREPARE AND PRIME TO ACCEPT ROOFING MATERIALS INDICATED.
- H. ONCE EXPOSED TO VIEW, FIELD VERIFY CONDITION OF EXISTING BLOCKING WITH ARCHITECT AND OWNER. IF DEEMED TO BE IN SERVICEABLE CONDITION, BLOCKING MAY BE PERMITTED TO REMAIN, UPON RECEIPT OF AN ACCEPTABLE CREDIT.
- I. REMOVE AND LEGALLY DISPOSE OF ALL MATERIALS INDICATED FOR DEVOLITION.
- K. REMOVE EXISTING MECHANICAL EQUIPMENT, SKYLIGHTS, HATCHES, PIPING, WIRING, CONDUTS AND MISCELLANEOUS ITEMS ON OR ADJACENT TO THE ROOF THAT IS IMPACTED BY SCHEDULED WORK (TP), (UNO). RAISE EXISTING GUTS WITH PRESERVATIVE-TREATED WOOD BLOCKING AS REQUIRED TO OBTAIN ROOFING WARRANTY SPECIFIED, BUT TO BE NOT LESS THAN MINIMUM 8" ABOVE FINISHED ROOF. EXTEND EXISTING DUCTWORK, PIPING AND ELECTRICAL CONNECTIONS AS REQUIRED, AND REINSTALL ALL EQUIPMENT AFTER ROOF INSTALLATION, MAKING PROPER MECHANICAL, ELECTRICAL AND PLUMBING CONNECTIONS. PROVIDE FOR TEMPORARY MECHANICAL, ELECTRICAL AND PLUMBING DISCONNECTS. COORDINATE SCHEDULING OF DISRUPTIONS WITH OWNER.
- L. EXTEND ALL VENTS AS REQUIRED TO MAINTAIN MINIMUM 18" HEIGHT ABOVE SURFACE OF FINISHED ROOF (VF).
- M. WOOD BLOCKING SHALL BE PRESERVATIVE-TREATED (TP), ALL FASTENERS TO BE STAINLESS STEEL SCREW-TYPE.
- N. AT ROOF DRAIN LOCATIONS, REFER TO SPECIFIC NOTES ON ROOF PLANS AND REFERENCED DETAILS FOR WORK REQUIRED BEFORE BEGINNING CONSTRUCTION. VERIFY ALL ROOF DRAINS ARE CLEAR AND IN WORKING ORDER. REPORT ANY OBSTRUCTIONS TO ARCHITECT AND OWNER PRIOR TO BEGINNING ROOF REMOVAL.
- P. DO NOT DISTURB OR OVERBURDEN EXISTING ROOF AREAS THAT ARE NOT SCHEDULED FOR WORK. THIS INCLUDES HIGH FOOT TRAFFIC, POINTS OF ACCESS AND MATERIAL STORAGE AREAS. ANY WORK REQUIRED SHALL COMPLY WITH EXISTING ROOF SYSTEM MANUFACTURER'S WARRANTY REQUIREMENTS.
- Q. MAINTAIN CONSTANT ROOF EDGE DUTAM AND FASCIA HEIGHTS. BY ADJUSTING LAYERS AND THICKNESS OF CONTINUOUS WOOD BLOCKING TO MATCH ADJACENT INSULATION THICKNESSES (VF).



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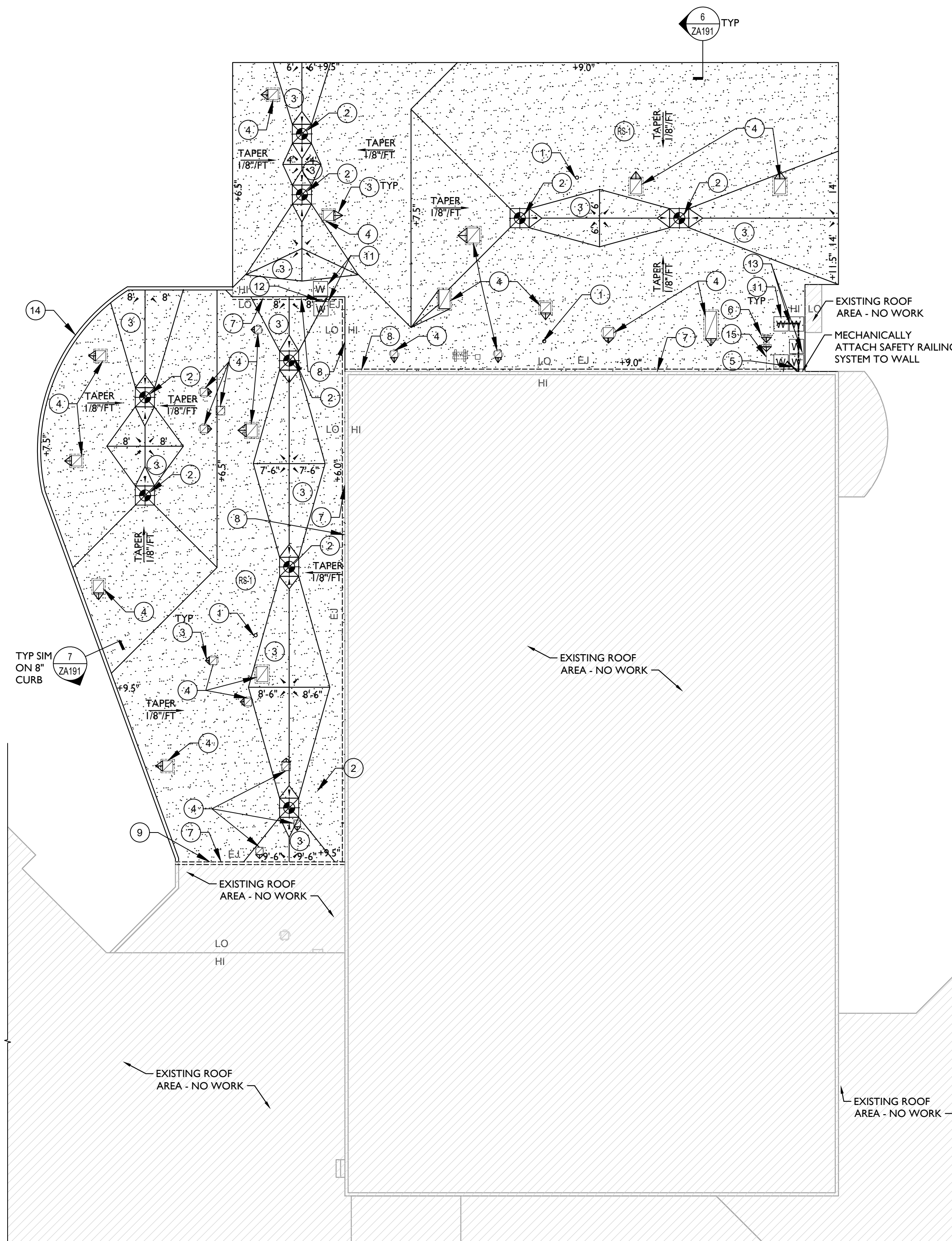
Beacon City School District

Beacon, New York

Beacon City School District
Roof Reconstruction to:
Beacon High School

Roof Plans Area A and G

N	Drawn by: TLG	Date: December 21, 2011	Drawing No.:
	Project No.: 279180-22001		FA190



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