

PUTNAM VALLEY
HIGH SCHOOL
PARTIAL ROOF
REPLACEMENT
&
REPAIR

Putnam Valley
Central School District
171 OSCAWANA LAKE ROAD, PUTNAM VALLEY, NY 10579

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S.E.D. Control No.
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CONSTRUCTION DOCUMENTS

GENERAL NOTES:

- DIMENSIONS AND CONDITIONS ON THE ROOF PLAN AND DETAILS ARE APPROXIMATE AND SHALL BE CONFIRMED BY THE CONTRACTOR.
- ONLY CERTAIN FASTENERS ARE SHOWN ON THE DRAWINGS, REFER TO THE SPECIFICATIONS FOR ADDITIONAL FASTENER REQUIREMENTS.
- TEST EACH DRAIN LINE WITH A RUNNING HOSE FOR AT LEAST ONE HOUR PRIOR TO STARTING ANY OTHER WORK ON SITE. PROVIDE A WRITTEN REPORT OF ANY CLOGGED LINES TO THE OWNER.
 - A. CLOGGED DRAIN LINES REPORTED TO THE OWNER BEFORE WORK STARTS WILL BE CLEANED BY THE OWNER.
 - B. COVER & PROTECT ALL DRAIN OPENINGS AT THE BEGINNING OF EACH WORK DAY. REMOVE THE COVERS AT THE END OF EACH DAY AND BEFORE PRECIPITATION OCCURS.
 - C. PERFORM WHATEVER WORK IS REQUIRED SO ALL DRAIN LINES ARE CLEAN AND FREE FLOWING UPON COMPLETION OF THE PROJECT.
- REMOVE EXISTING ROOF TOP ELECTRICAL CONDUIT AND GAS PIPE SUPPORTS. RE-SET THE CONDUIT AND PIPES ON ADJUSTABLE HEIGHT FACTORY MANUFACTURED PIPE SUPPORTS PLACED ON WALKWAY PADS SPACED 5 FEET ON CENTER. SECURE THE CONDUITS AND PIPES TO THE PIPE SUPPORTS WITH GALVANIZED CLIPS & BOLTS.
- REMOVE AND REMOUNT LIGHT FIXTURES, ELECTRICAL BOXES, PA SPEAKERS, AND ALARM SIRENS, ON THE FACADE, JUST BELOW THE NEW EAVE METAL.
- WIRE BRUSH, PRIME & PAINT ALL ROOF TOP EQUIPMENT HOUSINGS, EXTERIOR & INTERIOR ACCESS LADDERS, BULKHEAD DOORS & DOOR FRAMES (BOTH SIDES), GAS LINES, AND THE VENT PIPES. DO NOT PAINT OVER EQUIPMENT NAME PLATES AND LABELS.
- REPAIR EXHAUST EQUIPMENT HOUSINGS SO THEY ARE WATERTIGHT; REPLACE ANY MISSING PIECES.
- REMOVE, MODIFY AND REMOUNT THE EXISTING LADDERS - REWORK THEM SO THEY ARE OSHA COMPLIANT. SCRAPE, PRIME AND PAINT THE LADDERS. FILL OLD FASTENER HOLES WITH COLOR MATCHING MORTAR.
- RE-CAULK ALL VERTICAL MASONRY CONTROL AND EXPANSION JOINTS IN THE CHANGE IN ELEVATION WALLS ABOVE LOWER-LEVEL ROOFS. REMOVE EXISTING SEALANT AND BACK UP MATERIALS, AND INSTALL NEW BACKER ROD AND SEALANT.
- INSULATE EXISTING DRAIN LINES WHERE EXPOSED INSIDE THE BUILDING, ALL NEW DRAIN LINES, AND THE UNDERSIDES OF THE NEW DRAIN BOWLS.
- INSTALL GRANULAR SURFACED SBS MODIFIED BITUMEN ROLL ROOFING TARGET PATCHES TO REPAIR AREAS F THROUGH L WHERE INDICATED ON THE ROOF WITH SPRAY PAINT.
 - A. DRY AND CLEAN THE REPAIR AREA.
 - B. CUT AND REMOVE THE EXISTING BLISTERS AND RIDGES.
 - C. PRIME THE REPAIR AREA AND ALLOW THE PRIMER TO DRY.
 - D. TORCH APPLY THE TARGET PATCHES.
 - E. APPLY ACRYLIC COATING ON THE TARGET PATCH, TO MATCH THE COLOR OF THE ADJOINING ROOF SURFACE.
- LIGHTNING PROTECTION AIR TERMINALS NOT SHOWN, REMOVE, MODIFY AND RESET.
- APPROXIMATE LOCATIONS OF FALL ARREST DAVIT SYSTEM, SEE DET 29/A-4 SIMILAR FOR FLASHING.

LEGEND:

- ROOF AREA DESIGNATION
- GUTTER & LEADER (SEE DET. 11&12/A-2, 13-15/A-3)
- SKYLIGHT
- LEADER HEAD (SEE DET. 24/A-3)
- LEADER HEAD (SEE DET. 25/A-4)
- ROOF DRAIN (SEE DET. 26/A-4)
- VENT PIPE (SEE DET. 27/A-4)
- LIGHTNING CABLE (SEE DET. 28-30/A-4)
- LIGHTNING CABLE PENETRATION (SEE DET. 29/A-4)
- PIPE SNOW GUARD (SEE DET. 31/A-4)
- ELECTRICAL CONDUIT (SEE NOTE 4)
- ROOF LADDER (SEE NOTE 8)
- FALL ARREST DAVIT (SEE NOTE 13)
- TAPERED ISOCYANURATE INSULATION, SLOPE 1/8" PER FT
- DECK SLOPE
- CRICKET - SLOPE 1/4" PER FT
- REPAIR EXISTING AREA - ROOFING TO REMAIN
- WALKWAY PADS

CODE COMPLIANCE REQUIREMENTS:

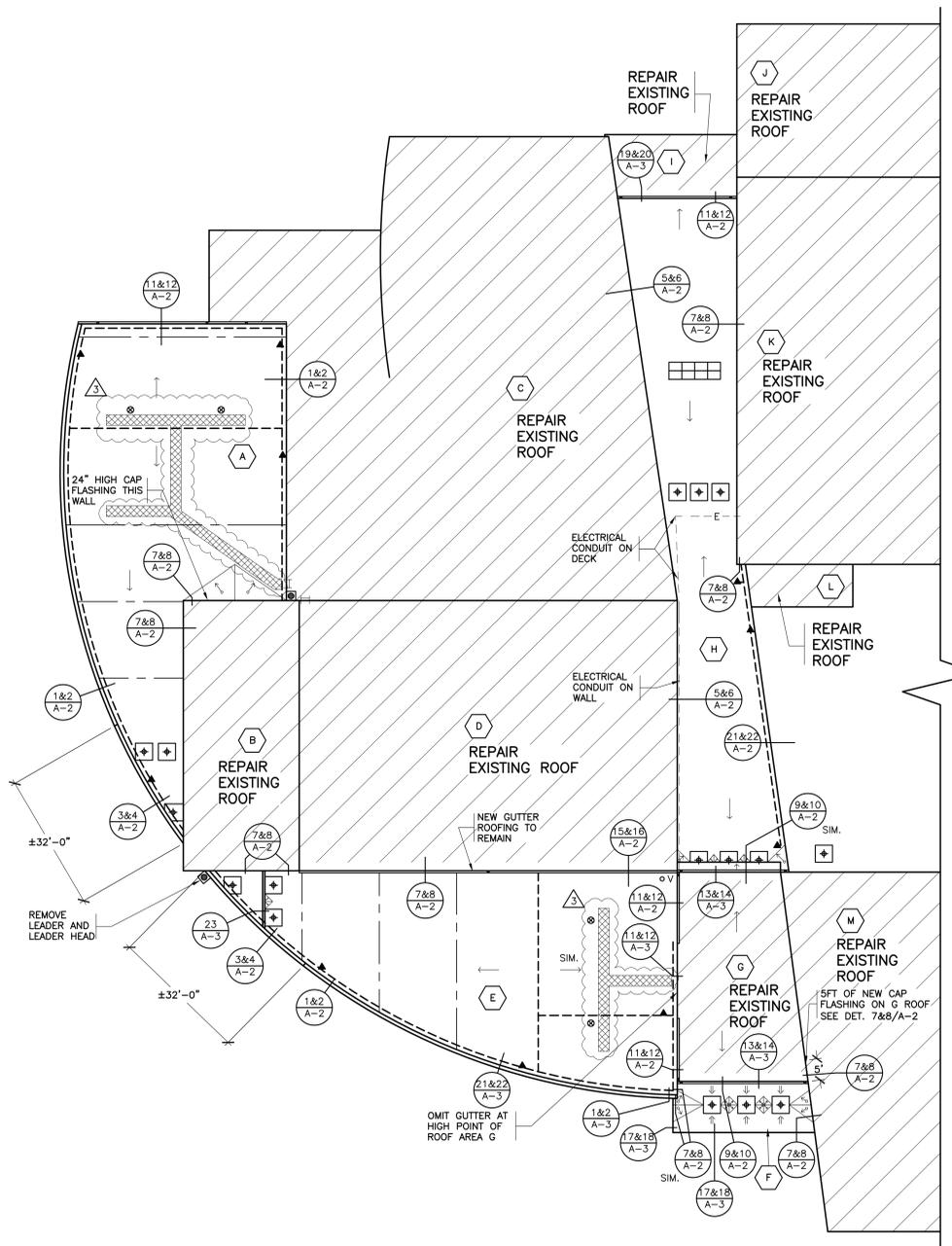
- INSTALL NEW ROOFING TO MEET THE FOLLOWING MINIMUM REQUIREMENTS:
 - A. NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, WHICH INCLUDES BY REFERENCE THE NEW YORK STATE ENERGY CONSERVATION CODE.
 - B. UNDERWRITERS LABORATORIES INC. CLASS A EXTERNAL FIRE RATING FOR ROOF ASSEMBLIES TESTED IN ACCORDANCE WITH ASTM E 108 OR UL 790.
 - C. UNDERWRITERS LABORATORIES INC. STANDARD 1256 FOR ROOF ASSEMBLIES WITH FOAM INSULATION.
- INSTALL ROOFING TO COMPLY WITH THE WIND UPLIFT REQUIREMENTS OF THE NY STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, BASED ON THIS CRITERIA:
 - RISK CATEGORY III
 - BASIC WIND SPEED 130 MPH
 - EXPOSURE CATEGORY B
 - BUILDING HEIGHT 30 FT.
- INSTALL ROOFING AS INDICATED TO RESIST THE FOLLOWING UPLIFT LOADS, CALCULATED IN ACCORDANCE WITH ASCE 7 USING A SAFETY FACTOR OF 2:
 - FIELD ZONE: 90 PSF
 - PERIMETER ZONE: 135 PSF
 - CORNER ZONE: 150 PSF
- FABRICATE AND INSTALL ROOF PERIMETER FLASHINGS THAT COMPLY WITH THE NY STATE UNIFORM FIRE PREVENTION AND BUILDING CODE AND WITH ANSI/SPRI ES-1 "WIND STANDARD FOR EDGE SYSTEMS USED WITH LOW SLOPE ROOFING SYSTEMS", ON A BUILDING USING THE CRITERIA DESCRIBED ABOVE.
- FABRICATE AND INSTALL WOOD BLOCKING COMPONENTS TO RESIST A FORCE OF 275 POUNDS PER LINEAL FOOT APPLIED IN ANY DIRECTION.

LIGHTNING PROTECTION SYSTEM NOTES

- EXISTING LIGHTNING PROTECTION SYSTEM COMPONENTS ARE NOT SHOWN AND SHALL BE VERIFIED BY THE CONTRACTOR. REFER TO THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- CAREFULLY DISCONNECT, SAVE AND SET ASIDE LIGHTNING PROTECTION SYSTEM COMPONENTS AS NEEDED TO PERFORM THE ROOF REHABILITATION WORK INDICATED.
- REINSTALL AND RESET LIGHTNING SYSTEM COMPONENTS TO MATCH THE ORIGINAL CONFIGURATION, WITH NEW FLASHINGS AT THE CABLE PENETRATIONS AND TERMINALS.
- PROVIDE NEW MOUNTING BRACKETS, CLIPS, CABLE SPLICES, SECTIONS OF CABLE, AND SIMILAR COMPONENTS, TO REPLACE ANY THAT CAN'T BE PROPERLY REUSED AND RESET.
- WORK ON THE LIGHTNING PROTECTION SYSTEM WORK SHALL BE PERFORMED BY PERSONNEL THAT HAVE PERFORMED THE SAME TYPE OF WORK FOR AT LEAST 5 YEARS.

ROOF PROTECTION NOTES:

- AVOID WALKING ON NEW AND EXISTING ROOF AREAS.
- DO NOT STORE MATERIAL OR EQUIPMENT, AND DO NOT PILE DEBRIS ON NEW AND EXISTING ROOF AREAS.
- INSTALL 1 INCH THICK EXTRUDED POLYSTYRENE INSULATION OVER 6 MIL FIRE RETARDANT POLYETHYLENE, COVERED WITH 2x10 WOOD PLANKS TO PROTECT ROOFING WHERE CONSTRUCTION WORK AND TRAFFIC WILL OCCUR.
- NEATLY CUT AND POSITION ROOF PROTECTION COMPONENTS TO FIT WITHIN 1/2 INCH OF ROOF PENETRATIONS, EAVES AND CHANGE IN ELEVATION WALLS.
- DO NOT COVER THE ROOF DRAINS. MAINTAIN THE ROOF DRAIN STRAINERS VISIBLE AND CLEAR AT ALL TIMES.



ROOF AREA	DECK TYPE	STARTING THICKNESS OF NEW INSULATION	MINIMUM R-VALUE OF NEW INSULATION	AVERAGE THICKNESS OF NEW INSULATION	AVERAGE R-VALUE OF NEW INSULATION
A	METAL	5.5"	30	5.5"	31.9
B-D	NIC				
E	METAL	5.5"	30	5.5"	31.9
F	METAL	5.5"	30	5.8"	33.6
G	NIC				
H	METAL	5.5"	30	5.5"	31.9

NOTES:

- INSTALL INSULATION WITH A MINIMUM R-VALUE OF 30 FOR CONTINUOUS INSULATION ENTIRELY ABOVE THE DECK, TO MEET THE NYS ENERGY CONSERVATION CONSTRUCTION CODE, INCLUDING THE INTERNATIONAL ENERGY CONSERVATION CODE AND THE NY STATE SUPPLEMENT, FOR A BUILDING IN CLIMATE ZONE 4/5.
- INSTALL 3 INCH THICK LAYER OF FLAT ISOCYANURATE INSULATION OVER A 2-1/2 INCH THICK LAYER OF FLAT ISOCYANURATE INSULATION.
- INSTALL TAPERED ISOCYANURATE INSULATION THAT SLOPES 1/8 INCH PER FOOT; MINIMUM STARTING THICKNESS 5-1/2 INCHES UNLESS OTHERWISE NOTED. INSTALL THE ISOCYANURATE INSULATION IN MULTIPLE LAYERS, WITH THE THICKEST LAYER BEING 4 INCHES. STAGGER ALL JOINTS BETWEEN LAYERS 12 INCHES.
- INSTALL ISOCYANURATE INSULATION CRICKETS OVER THE TAPERED INSULATION.
- INSTALL A COVER BOARD USING LOW RISE FOAM ADHESIVE OVER THE INSULATION AND CRICKETS.

PARTIAL ROOF PLAN
0' 4' 8' 16'
PROJECT NORTH



KEY PLAN
NOT TO SCALE
PROJECT NORTH
LEGEND:
ROOF REPLACEMENT
REPAIR EXISTING ROOF

Professional Seal

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No.	Date	Issue
3	06/27/2022	BID ADDENDUM #1
2	06/10/2022	ISSUE FOR BID
1	05/25/2022	CONSTRUCTION DOCUMENTS

PARTIAL ROOF PLAN

Job No. 2021-1086
Date 05/25/2022
Scale AS NOTED
Drawn/Checked WAKG+D
Sheet No. A-1