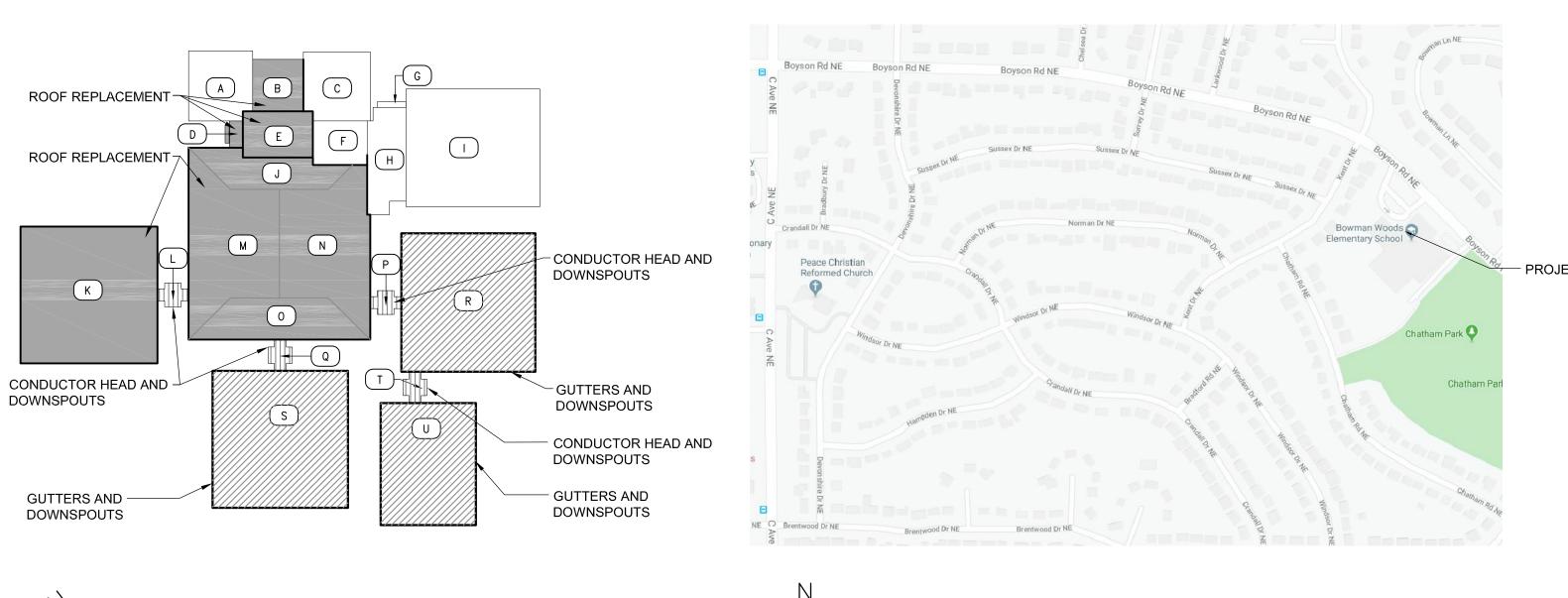


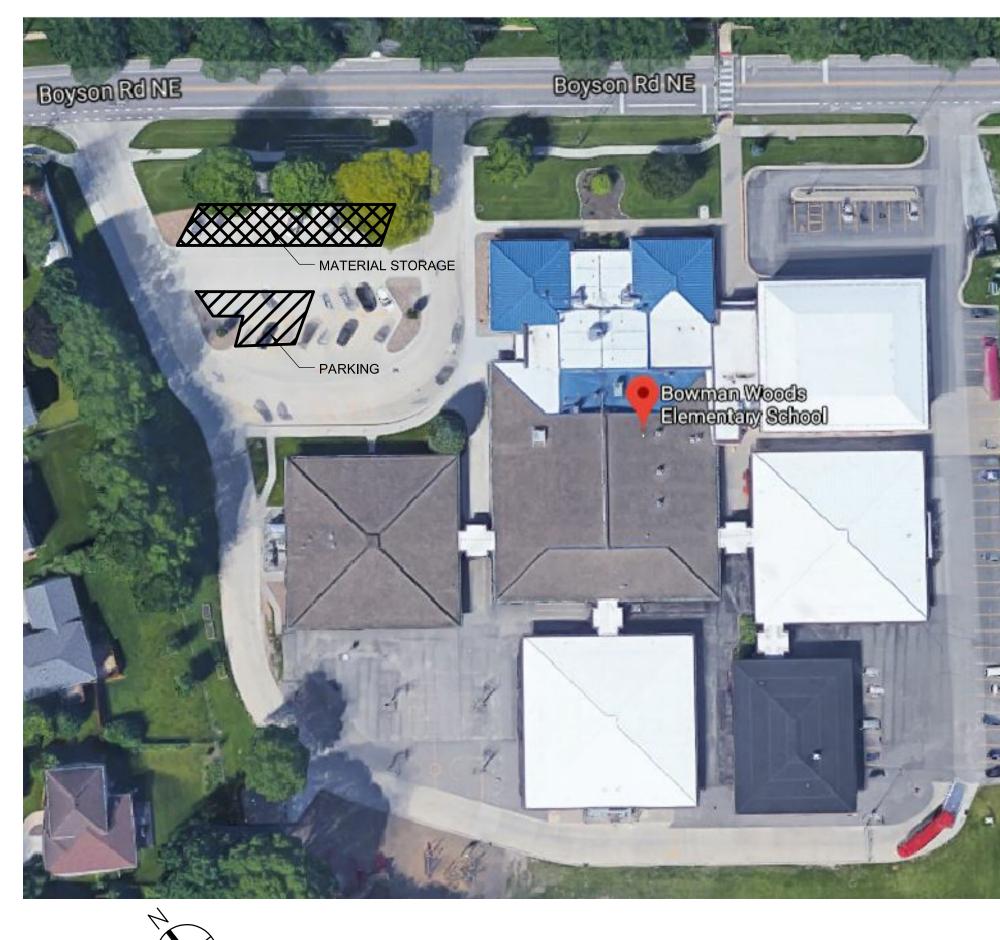
# 2020 ROOF IMPROVEMENTS BOWMAN WOODS ELEMENTARY LINN-MAR COMMUNITY SCHOOL DISTRICT

#### KEY PLAN



BOWMAN WOODS ELEMENTARY 151 BOYSON ROAD NE, CEDAR RAPIDS, IOWA

## STAGING



### PROJECT LOCATION

# SHEET INDEX

G0.01
A1.01
A5.01
A5.02

NDEX COVER SHEET ROOF PLAN BC DETAILS DETAILS

- PROJECT LOCATION

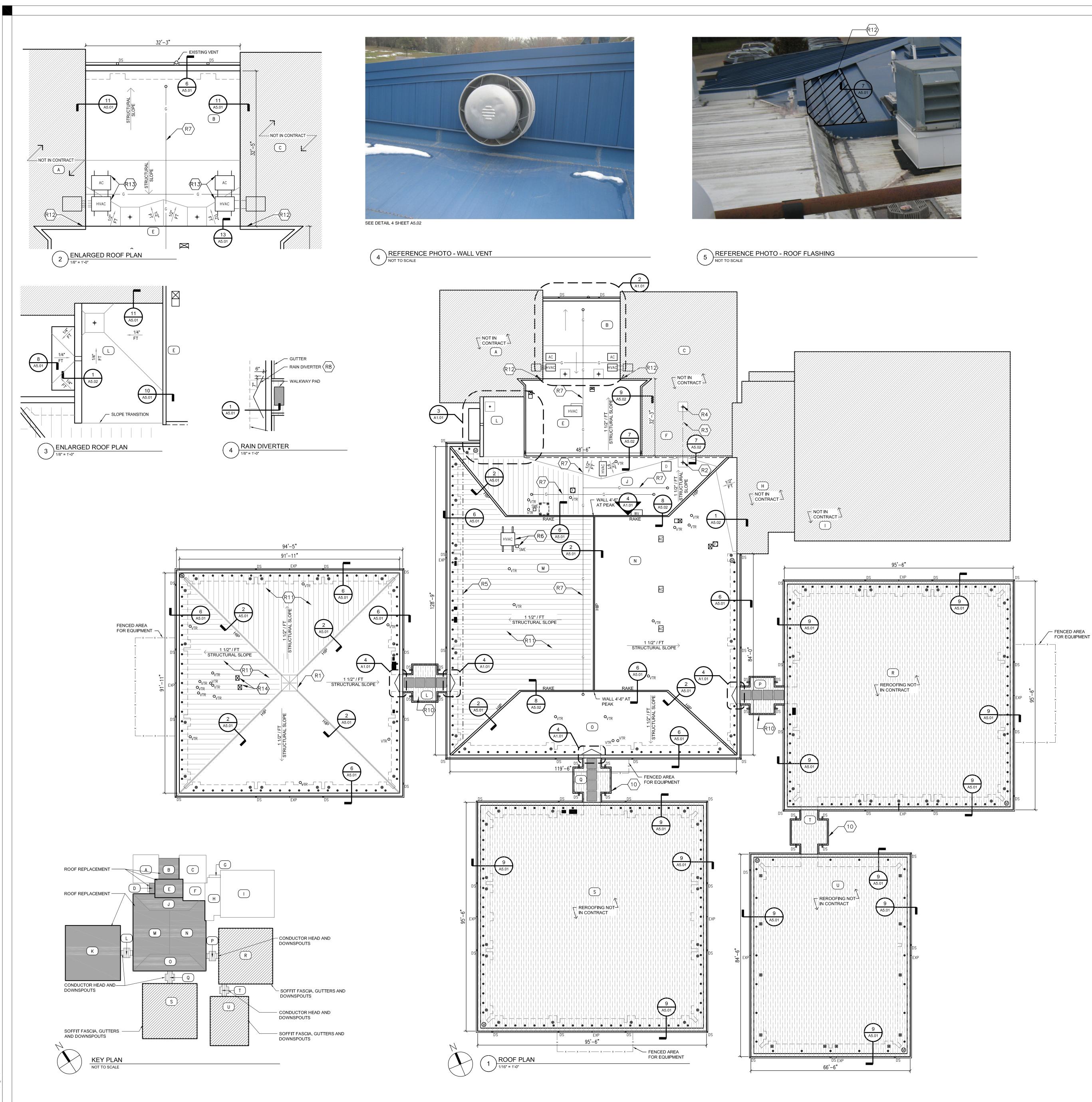
- NOTE: 1. GROUND STAGING AND TRAFFIC OVER ANY AND ALL GRASS AND LAWN AREAS WILL REQUIRE NEW SOD TO BE INSTALLED AFTER FINAL COMPLETION OF THE ROOF AND PRIOR TO RELEASE OF RETENTION PAYMENT.
- 2. ANY DAMAGE TO SIDEWALK(S) WILL REQUIRE DEMOLITION AND REPLACEMENT TO MATCH EXISTING. DEMOLITION TO CONTINUE PAST DAMAGED AREA TO NEXT CONSTRUCTION JOINT OF SIDEWALK.
- 3. THE VERIFICATION OF EXISTENCE OF, AND THE DETERMINATION OF THE EXACT LOCATION OF, UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR(S).

#### ARCHITECT

I HEREBY CERTIFY THAT THE PORT DESCRIBED BELOW WAS PREPARE SUPERVISION AND RESPONSIBLE C ARCHITECT UNDER THE LAWS OF T	D BY ME OR UNDER MY DIRECT HARGE. I AM A DULY REGISTERE
NATALIE A. OPPEDAL	
Printed or typed name	
	1/22/20
Signature	Date
6/30/2021	2/6/2017
Registration expires	Date issued
	FRED BY THIS SEAL ALL

COVER SHEET ROOF PLAN BOWMAN WOODS Exhibit 603.1







<u>key notes</u>

- AT EXISTING CAP PROVIDE NEW TAPERED INSULATION 1/4"/FTMECHANICALLY FASTENED TO EXISTING STRUCTURE. ADHERE
- COVER BOARD AND PVC ROOFING. R2 PROVIDE AND INSTALL NEW 4" ROOF DRAIN AND NO HUB CONNECTION.
- $\langle R3 \rangle$  TIE-IN DRAIN TO EXISTING ROOF DRAIN PIPING INDICATED.
- INSULATE ALL PIPE AND DRAIN CONNECTIONS.
- $\langle R4 \rangle$  LOCATION OF EXISTING ROOF DRAIN.
- R5 PROVIDE SNOW GUARD. ALPINE SNOW GUARD, SNOW MAX-MEMBRANE WITH WHITE INSERT AND MILL FINISH ALUMINUM. INSTALL PER ROOFING MANUFACTURER'S RECOMMENDED STANDARD.
- REMOVE EXISTING OBSOLETE HVAC UNIT, RELATED SLEEPERS AND SHEET METAL ENCLOSURE. PROVIDE 3/16" STEEL PLATE FOR DECK REPAIR. INSTALL 6" REVOID SUPPORT SOREW INTO DECK REPAIR. INSTALL 6" BEYOND SUPPORT SCREW INTO TRUSSES 12" O.C.
- $\left< \mathsf{R7} \right>$  PROVIDE DISCHARGE OF EXISTING GAS PIPING. DISCONNECT AND RAISE GAS PIPING TO A MINIMUM OF 8" ABOVE FINISHED ROOF SURFACE. RECONNECT, RECHARGE AND TEST GAS PIPING. CLEAN, PRIME AND PAINT GAS PIPING SAFETY YELLOW. PROVIDE NEW PIPE SUPPORT STANDS 10' O.C.
- R8 INSTALL HEAT WELDED DECORATIVE RIB PVC RAIN DIVERTERS ABOVE BREEZEWAY CONNECTOR ROOF.
- (R9) OWNER TO PROVIDE AND INSTALL ROCK BASINS ON GRADE AT DOWNSPOUT OUTLET LOCATIONS WHERE PAVEMENT DOES NOT EXIST
- R10 BREEZEWAY ROOFS L, P AND Q ARE UNDER WARRANTY. SIKA-SARNAFIL 15 YEAR WARRANTY EXPIRES OCTOBER 27, 2025.
- R11 PROVIDE AND INSTALL PVC DECORATIVE RIBS. SEE SPECIFICATIONS.
- REMOVE EXISTING STANDING SEAM PANELS AND BATTENS IN AREAS INDICATED. CONSTRUCT STANDING SEAM TIE-IN FLASHING FROM PVC COATED METAL AND STRIP IN FLASHING UTILIZING EXISTING BATTENS. SEE REFERENCE PHOTO 5 SHEET A1.01.
- (R13) CONSTRUCT NEW SLEEPER FOR EXISTING ROOF TOP UNITS. SEE DETAIL 16 SHEET A5.01. REMOVE OBSOLETE UNIT. PROVIDE 1/8" STEEL PLATE FOR DECK
- REPAIR. INSTALL 6" BEYOND SUPPORT SCREW INTO TRUSSES 12"
- REMOVE AND RESET ALL SOFFIT-MOUNTED LIGHT BEZELS. WATERPROOF ALL SOFFIT PENETRATIONS AND EXPOSED EDGES AS REQUIRED.

#### <u>GENERAL NOTES</u>

- 1. ROOF PLAN LAYOUT, LOCATION, AND SECTIONS WERE TAKEN FROM EXISTING BUILDING PLANS AND FIELD CONDITIONS. IT IS THE CONTRACTORS RESPONSIBLITY TO CORE THE ROOF. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS OF THE EXISTING ROOF SYSTEM, INCLUDING INSULATION TYPE AND THICKNESS. FAILURE TO VERIFY CONDITIONS WILL BE AT THE CONTRACTORS OWN RISK.
- 2. THE EXACT LOCATION AND ELEVATION OF ALL PUBLIC UTILITIES MUST BE DETERMINED BY THE CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL UTILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT.
- 3. NEW ROOFING ASSEMBLY CONSISTS OF: ROOF LEVELS B, E, L ROOF LEVELS J, K, M, N , O FULLY-ADHERED PVC FULLY-ADHERED PVC 1/2" COVER BOARD 1/2" COVER BOARD 2 LAYERS 2.5" POLYISOCYANURATE TAPERED INSULATION SYSTEM VAPOR BARRIER VAPOR BARRIER 1/2" THERMAL BARRIER BOARD
- EXISTING WOOD DECK EXISTING WOOD DECK 4. REMOVE EXISTING SHEET METAL, UNLESS NOTED OTHERWISE, AND REPLACE WITH NEW AS PLANS SHOW. ALL PERIMETER WOOD BLOCKING SHALL BE OF UNIFORM HEIGHT AND OF A MINIMUM HEIGHT TO MATCH THE THICKNESS OF THE NEW INSULATION SYSTEM. THE CONTRACTOR SHALL VERIFY HEIGHT OF ALL WOOD BLOCKING.
- ARROWS ON THE PLAN INDICATE DIRECTION OF DRAINAGE FOR TAPERED INSULATION SYSTEM. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS OF BUILDING AND DRAIN LOCATIONS BEFORE ORDERING TAPERED INSULATION MATERIALS. SUBMIT TAPERED INSULATION LAYOUT PLAN. SEE SPECIFICATION SYSTEM DESCRIPTION.
- ALL EXISTING METAL HOODS, VENTS, CAPS, ETC,, REMOVED AND REINSTALLED DURING CONSTRUCTION SHALL BE PROPERLY REFASTENED TO PROVIDE WATERTIGHT CONDITIONS. RAISE ALL CURBS AND VENTS WHICH DO NOT MEET THE 8" MINIMUM
- FLASHING HEIGHT REQUIREMENT. INSTALL TAPERED CRICKET ON UP-SLOPE SIDE OF CURBS 24" OR MORE WIDE. CRICKETS SHALL HAVE A 1/2" PER FOOT MINIMUM FINISHED SLOPE AWAY FROM CURB AND VALLEYS DIRECTING WATER TO THE CURB'S SIDES.
- REFER TO MANUFACTURER'S STANDARD DETAILS AND RECOMMENDATIONS FOR ANY MISCELLANEOUS DETAILS NOT SHOWN IN THE PLANS.
- PERMITTED UNLESS APPROVAL IS OBTAINED IN WRITING FROM SHIVE-HATTERY, INC. PRIOR TO INSTALLATION. 10. PROVIDE DISCONNECT AND RECONNECT OF MECHANICAL AND ELECTRICAL EQUIPMENT AS REQUIRED TO ACCOMMODATE INSTALLATION
- OF NEW ROOF SYSTEM AND INCREASE IN HEIGHT OF CURB. VERIFY EQUIPMENT IS OPERATIONAL WHEN WORK IS COMPLETE. COORDINATE THIS WORK WITH THE OWNER.
- 11. CONTRACTOR TO REVIEW AND LOCATE THROUGH SOFFIT PENETRATIONS. SOFFIT TO BE INSTALLED WITHOUT DISTURBING EXISTING CONNECTIONS WHERE POSSIBLE.
- MINIMUM HEIGHT TO MATCH THE MAXIMUM THICKNESS OF THE NEW INSULATION SYSTEM. THE CONTRACTOR SHALL VERIFY HEIGHT OF ALL WOOD BLOCKING. CONTRACTOR SHALL FASTEN UNSECURED EXISTING WOOD BLOCKING AND NEW WOOD BLOCKING ACCORDING TO THE
- FOLLOWING REQUIREMENTS: WOOD TO WOOD CONNECTIONS SHALL BE FASTENED WITH #12-15x3" SENTRY PLUS FIVE TRUSS HEAD FASTENERS BY TFC (OR APPROVED EQUIVALENT) 2 ROWS STAGGERED 24" OC AND AT 12" OC W/IN 8'-0" OF OUTSIDE CORNERS. FASTENER MUST MEET MINIMUM OF 100# PULL-OUT VALUE. WOOD TO MASONRY CONNECTIONS SHALL BE FASTENED WITH 1/4"x4" TRIANGLE TAPCON BY TFC, (OR APPROVED EQUIVALENT), AT 24" OC MAX AND 12" OC WITHIN 8'-0" OF OUTSIDE CORNERS. WOOD TO STEEL CONNECTIONS SHALL BE FASTENED WITH 1/4" - #14x4"
- WOOD TO PLATE STEEL CONNECTIONS SHALL BE FASTENED WITH 1/2" HOT DIPPED GALVANIZED THRU BOTLS AT 4'-0" OC MAX AND AT 2'-0" OC WITHIN 8'-0" OF OUTSIDE CORNERS.

LEGEND				
PLAN MARK	RO DESCRIPTION	OFING REFERENCE	REMARKS	
	OBSOLETE UNIT		REMOVE CURB AND INFILL	
	AC UNIT ON EQUIPMENT SUPPORTS	DETAIL 16 SHEET A5.01		
	DUCT GOOSENECK (SQUARE)	DETAIL 3 SHEET A5.01		
F	EXHAUST FAN	DETAIL 3 SHEET A5.01		
HVAC	MECHANICAL UNIT	DETAIL 3 SHEET A5.01		
\$\$         \$\$	MECHANICAL UNIT SUPPORT FRAME	N/A	REUSE EXISTING SUPPOR FRAME	
	ROOF EDGE OR WALL	SEE PLAN		
	PARAPET WALL	SEE PLAN		
	OVERHANG	N/A		
G	GAS PIPING	DETAIL 5 SHEET A5.01		
+	ROOF DRAIN	DETAIL 12 SHEET A5.01		
	SCUPPER	DETAIL 2 SHEET A5.02		
• <sup>DS</sup>	DOWN SPOUT	DETAIL 6 SHEET A5.02		
	GUTTER AND ROOF EDGE	SEE PLAN		
	SHEET METAL ENCLOSURE	DETAIL 14 SHEET A5.01		
$\mathbf{o}_{\mathrm{VTR}}$	VENT THROUGH ROOF	DETAIL 4 SHEET A5.01		
1/4" FT	TAPERED INSULATION SLOPE	N/A		
A	ROOF LEVEL DESIGNATION	N/A		
	WALKWAY PAD	N/A		
EXP	GUTTER EXPANSION JOINT	DETAIL 5 SHEET A5.02		
- PDS	SCUPPER WITH CONDUCTOR HEAD AND DOWNSPOUT	DETAIL 3 SHEET A5.02		
WV	WALL VENT	DETAIL 4 SHEET A5.02		
x x	EXISTING FENCE	N/A		
	SOFFIT VENT	(R15)		
0 0	SOFFIT LIGHTS	(R15)		
M	MOTION DETECTOR UNDER SOFFIT	(R15)		

