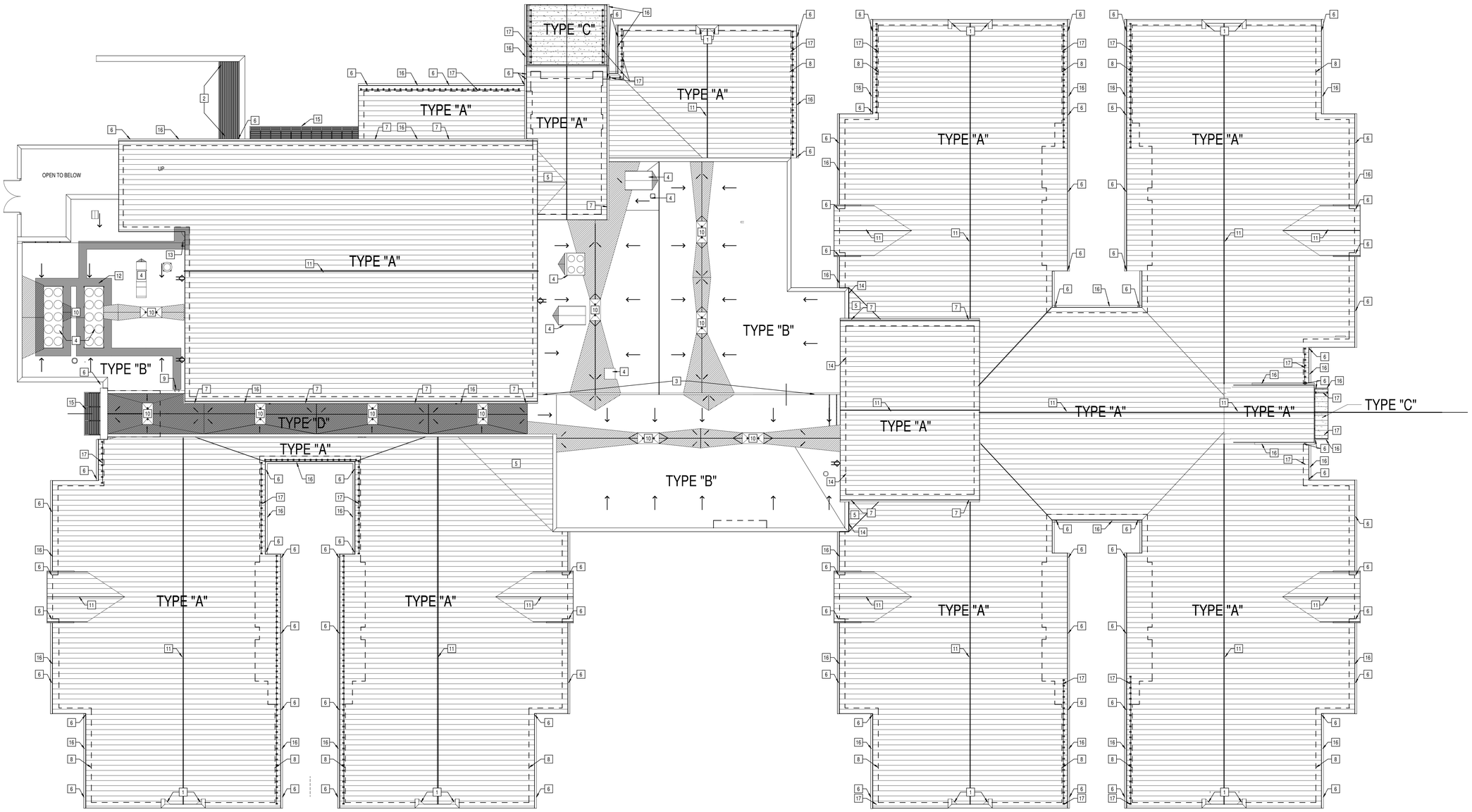

1 A120 COMPOSITE ROOF PLAN
SCALE: 1/16" = 1'-0"

ROOF ABBREVIATIONS

DR	DUCT THRU ROOF
DS	METAL DOWNSPOUT
EF	EXHAUST FAN; SEE MECHANICAL
EJ	EXPANSION JOINT
FS	FLUE STACK; SEE MECHANICAL
GU	METAL GUTTER
PV	PLUMBING VENT
RAV	RELIEF AIR VENT; SEE MECHANICAL
RH	ROOF HATCH
RD	ROOF DRAIN, SEE PLUMBING
ORD	OVERFLOW ROOF DRAIN, SEE PLUMBING

GENERAL ROOF NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE BEST QUALITY STANDARDS OF THE TRADE, AND SHALL CONFORM WITH THE LATEST EDITION OF ALL FEDERAL, STATE, AND LOCAL CODES AND STANDARDS. THE SAME ARE MADE A PART OF THESE CONTRACT DOCUMENTS, AS IF REPEATED HEREIN.
2. CONTRACT DOCUMENTS CONSIST OF BOTH THE PROJECT MANUAL AND DRAWINGS, AND BOTH ARE INTENDED TO BE COMPLEMENTARY. ANYTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.
3. CONSTRUCTION DOCUMENTS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE, HOWEVER, SYSTEMS HAVE BEEN SHOWN DIAGRAMMATICALLY AND IN SOME CASES, ENLARGED FOR CLARITY. PROVIDE ADDITIONAL ITEMS AS REQUIRED TO PROVIDE A COMPLETE AND COORDINATED SYSTEM.
4. CONTRACTOR SHALL PROVIDE ANY AND ALL TEMPORARY UTILITY SERVICE REQUIRED TO CONSTRUCT THE WORK. CONTRACTOR MAY EXTEND SERVICES FROM EXISTING LOCATIONS TO WHERE THEY ARE REQUIRED. REMOVE TEMPORARY UTILITIES AND RELATED EXTENSIONS AS SOON AS PRACTICABLE. RESTORE ALL AFFECTED AREAS TO ORIGINAL CONDITION.
5. CONTRACTOR SHALL REMOVE CONSTRUCTION DEBRIS FROM THE BUILDING AND ROOF DAILY.
6. STORE VOLATILE OR FLAMMABLE LIQUIDS IN UL LISTED FIRE CABINETS.
7. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SECURITY OF ALL STORED MATERIALS AND EQUIPMENT INSIDE OR OUTSIDE THE BUILDING.
8. CONTRACTOR SHALL FURNISH NECESSARY TEMPORARY PROTECTION FROM WEATHER TO PROTECT INTERIOR OF BUILDING FROM ELEMENTS OF WEATHER AT ALL TIMES.
9. CONTRACTOR RESPONSIBLE FOR TRAFFIC PROTECTION DURING CONSTRUCTION. AREAS OF WORK SUBJECTED TO TRAFFIC BY VARIOUS TRADES SHALL BE PROTECTED BY TEMPORARY WALK PADS.
10. PROVIDE TREATED WOOD BLOCKING EQUAL IN THICKNESS TO INSULATION SYSTEM AT ROOF PERIMETER AND AROUND ALL ROOF PENETRATIONS. ANCHOR PER SECTION I-49 OF THE FM GLOBAL LOSS PREVENTION GUIDE.
11. EXTEND ALL PLUMBING VENTS TO PROVIDE A MIN. OF 12" OF HEIGHT FROM TOP OF INSULATION. ALL FITTINGS TO BE AIR AND WATER TIGHT. SEE PLUMBING PLANS FOR LOCATIONS.
12. ROOF INSULATION SADDLES AND CRICKETS ARE DIAGRAMMATIC. ROOF INSULATION MANUFACTURER SHALL DESIGN AND SIZE THESE PER THE ROOF MEMBRANE MANUFACTURERS RECOMMENDATIONS. CRICKETS AND SADDLES SHOULD HAVE A MINIMUM OF TWO TIMES THE SLOPE OF THE PRIMARY TAPERED SYSTEM OR STRUCTURAL SLOPE. THE RATIO OF A CRICKET'S WIDTH TO LENGTH SHOULD BE NO LESS THAN 1 TO 3.
13. PROVIDE SADDLES/CRICKETS AROUND ALL NEW ROOF TOP EQUIPMENT. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR LOCATIONS OF ALL ROOF PENETRATIONS.
14. PROVIDE TAPERED INSULATION WHERE REQUIRED TO TRANSITION FROM ONE INSULATION HEIGHT TO ANOTHER.
15. NOTCH ALL INSULATION AS REQUIRED TO ACCOMMODATE SURFACE MOUNTED CONDUIT, FASTENERS, OFFSETS AND OTHER PROJECTIONS EXTENDING ABOVE THE SURFACE OF THE DECK.
16. PERIMETER EDGE METAL TO COMPLY WITH ANSI/SPRI ES-1 FM GLOBAL 1-49. SEE MECHANICAL, ELECTRICAL AND PLUMBING (MEP) SHEETS FOR ROOF TOP EQUIPMENT.
17. ALL ROOF DETAIL DRAWINGS CONTAINED IN THIS SET ARE DIAGRAMMATIC. ADJUST ROOF DETAILS BASED ON SPECIFIC ROOFING SYSTEM SELECTED. ACCORDING TO MANUFACTURER'S WRITTEN SPECIFICATIONS AND APPROVED DETAIL DRAWINGS. ALL ASSEMBLY COMPLICATIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
18. THE ROOF CONTRACTOR SHALL PROTECT ALL ROOF DRAINS, GUTTERS AND DOWNSPOUTS FROM DEBRIS CREATED DURING CONSTRUCTION. THE ROOF CONTRACTOR SHALL CLEAR ALL DRAINS, GUTTERS AND DOWNSPOUTS PRIOR TO COMPLETION OF WORK AND TO ENSURE THAT THEY ARE FREE OF DEBRIS AND FUNCTIONING PROPERLY.
19. MECHANICAL, ELECTRICAL AND PLUMBING INFORMATION SHOWN ON THIS PLAN IS GENERAL IN NATURE. REFER TO P, M AND E DRAWINGS FOR FURTHER INFORMATION AND COORDINATE ALL REQUIRED ROOF OPENINGS OR ROOF MOUNTED EQUIPMENT.

ROOF PLAN NOTES

1. PROVIDE POSITIVE SLOPE ROOF CRICKET BEHIND ELEVATED WALL.
2. PRE-MANUFACTURED WALK WAY COVER. PROVIDE COMPLETE WALKWAY SYSTEM, SEE 105300 FOR MORE INFORMATION
3. 6" METAL STUD KNEE WALL, TOP 8" ABOVE HIGHEST ADJACENT ROOF SLOPE. WRAP ROOFING OVER TOP.
4. MECHANICAL EQUIPMENT ON ROOF CURB. TOP OF CURB MINIMUM 12" ABOVE ROOF SURFACE. FLASH PER MANUFACTURERS STANDARD DETAILS AND AS REQUIRED FOR OVERALL ROOF SYSTEM WARRANTY. PROVIDE ROOF CRICKET AS REQUIRED ON HIGH POINT OF ROOF CURB FOR DRAINAGE AROUND ROOF CURB
5. AREA OF ROOFING OVER BUILD.
6. 6"x4" PREFINISHED ALUMINUMN DOWNSPOUT TIE INTO CASTIRON DOWNSPOUT BOOT. COORDINATE WITH PLUMBING DRAWINGS.
7. 6"x4" PREFINISHED ALUMINUMN DOWNSPOUT ONTO ROOF BELOW, PROVIDE SPLASH BLOCK AND PROTECTION SHEET AT TERMINATION OF DOWNSPOUT ONTO ROOF SURFACE.
8. LINE OF WALL BELOW, TYP.
9. ALUMINUM PARAPET ROOF ACCESS LADDER WITH PLATFROM AND RETURN. O'KEEFFE'S MODEL 503 OR EQUAL AS APPROVED BY ARCHITECT. PROVIDE INTERMEDIATE BRACKETS AS REQUIRED FOR INSTALLATION. COORDIANTE BLOCKING REQUIRMENT WITH METAL PANEL MFR. AND WALL CONSTRUCTION.
10. STANDARD ROOF DRAIN AND OVERFLOW DRAIN. FLASH PER MANUFACTURERS STANDARD DETAILS AND AS REQUIRED FOR OVERALL ROOF SYSTEM WARRANTY.
11. NON-VENTED PEAK / RIDGE CAP PER MANUFACTURERS STANDARD DETAILS.
12. WALKWAY PADS PER MANUFACTUER AND SEE SPECS.
13. ROOF ACCESS DOOR LOCATION. SILL HEIGHT TO BE 8" ABOVE FINISHED ROOF SURFACE. METAL WATER STOP FLASHING SHALL BE MECHANICALLY FASTENED TO THE INSIDE OF THE DOOR SILL FRAMING OR OPENING AND BE SEALED WITH MEMBRANE FLASHING.
14. ROOF EXPANSION JOINT, TYPICAL
15. HANGERROD SUPPORTED ALUMINUMN CANOPY W/ INTERGRAL GUTTER AND DOWNSPOUTS. SEE SPEC. 105320 FOR MORE INFORMATION
16. 8" PREFINISHED AULMIUMN GUTTER
17. SNOWGUARD SYSTEM, BASIS OF DESIGN ALPINE SNOWGUARDS PP115 SYSTEM. OR APPROVED EQUAL.
18. COMBINE DOWNSPOUTS TOGETHER AT THIS LOCATION INTO A SINGLE DOWNSPOUT BOOT.

ROOFING TYPES SCHEDULE

TYPE	LEGEND	DESCRIPTION	TYPE	LEGEND	DESCRIPTION
TYPE "A"		CLASS "A" ROOFING MEMBRANE OVER (2) STAGGERED LAYERS OF 2" POLYISO ROOFING INSULATION BOARD TOTAL THICKNESS (4", R=25.2) INSTALLED ONTO SLOPED METAL ROOF DECK. W/ 1/2" COVERBOARD	TYPE "C"		CANOPY ROOFS: CLASS "A" ROOFING MEMEBRANE OVER LOW SLOPED METAL ROOF DECK. W/ 1/2 COVERBOARD.
TYPE "B"		CLASS "A" ROOFING MEMBRANE OVER (2) STAGGERED LAYERS OF 2" POLYISO ROOFING INSULATION BOARD TOTAL THICKNESS (4", R=25.2) INSTALLED ONTO LOW SLOPED METAL ROOF DECK. PROVIDE A MIN. STARTING INSULATION THICKNESS OF 1 1/2" AT ROOF DRAINS. W/ 1/2" COVERBOARD			
CRICKET/ SADDLE		ROOF SADDLE CREATED WITH TAPERED INSULATION. SLOPE 1/2" PER FOOT. CRICKETS AND SADDLES TO BE A MINIMUM WIDTH OF 1/2 THE SADDLE LENGTH.			

CARMEL CLAY SCHOOLS
CARMEL, INDIANA

CSO
8831 Keystone Crossing, Indianapolis, IN 46240
317.848.7800 | csoinc.net
© 2018 CSO Architects, Inc. All Rights Reserved

PROJECT:
CARMEL ELEMENTARY SCHOOL
FOR
CARMEL CLAY SCHOOLS
CARMEL, IN

SCOPE DRAWINGS:
These drawings indicate the general scope of the project. They do not necessarily indicate or describe all work required for the building, the major architectural elements and the type of structural, mechanical and electrical systems.
The drawings do not necessarily indicate or describe all work required for full performance and completion of the building and site work.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
3 ADDENDUM 3 12/20/19

ISSUE DATE	DRAWN BY	CHECKED BY
11/19/19	EHMH	BCH

DRAWING TITLE:
COMPOSITE ROOF PLAN

CERTIFIED BY:
JOHN E. RIGGBEE
REGISTERED
No. 92001 9
STATE OF INDIANA
ARCHITECT

DRAWING NUMBER
A120

PROJECT NUMBER
18094