CHRISTINA SCHOOL DISTRICT

BAYARD SCHOOL

ROOF REPLACEMENT BID NO CHR-19-033-ROOF1

200 S Dupont St. - Wilmington, DE 19805



ABBREVIATIONS

FIRE EXTINGUISHER

FACE OF CONCRETE

FACE OF FINISH

FACE OF STUD FACE OF WALL

HOLLOW METAL

INSIDE DIAMETER

INFORMATION

LONG LAMINATE (D)

MFR MANUFACTURE (R)

	ACOUSTICAL	FDN	FOUNDATION
	ADDITIONAL	FE	FIRE EXTINGL
ADJ	ADJUST	FG	FIBERGLASS
AFF	ABOVE FINISH FLOOR	FIN	FINISH (ED)
—		FLASHING	
ALUM	ALTERNATE ALUMINUM APPROXIMATE ARCHITECT	FLR	FLOOR
APPROX	APPROXIMATE	FOC	FACE OF CO
ARCH	ARCHITECT	FOF	FACE OF FINI
BD	APPROXIMATE ARCHITECT BOARD	FOM	FACE OF MA
BIT	BITUMINOUS	F05	FACE OF STU
	BUILDING	FOM	
BLKG	BLOCKING	FTG	FOOTING
BM	BEAM	FURN	FURNITURE
	BOTTOM OF	HDM	HARDWARE
	ВОТТОМ		HARDWOOD
CAB	CABINET	HM	HOLLOW MET
	CENTERLINE	HORIZ	
	CEILING	HT	HEIGHT
CLR	CLEAR	HTR	HEATER
	CONCRETE MASONRY UNIT		HEATING, VE
COL			CONDITIONIN
CONC	CONCRETE	IBC	INTERNATION
CONT	CONCRETE CONTINUOUS	ID	INSIDE DIAME
	CORRIDOR	110	IMPACT ISOL
	CARPET		INCLUDING
CR	CORROSION RESISTANT	INCL INFO	INFORMATION
CT	CERAMIC	INSUL	
DB	DECIRE	IX IT	INTERIOR
DEMO	DECIDEL DEMOLISH, DEMOLITION DRINKING FOUNTAIN DIAMETER DIMENSION DOWN	KIT	KITCHEN
DF	DRINKING FOUNTAIN	LG	LONG
DIA	DIAMETER	LAM	LAMINATE (D
DIM	DIMENSION	LVL	LEVEL
	DOWN	LAY	LAVATORY
DS DS		LB	POUND
E	EAST	LH	LEFT HAND
EA	EACH		LANDSCAPE
	ELECTRICAL	LOC	
ELEY	ELEVATOR, ELEVATION	MAS	MASONRY
EQ	EQUAL	MATL	MATERIAL
EQUIP		MAX	MAXIMUM
EST	ESTIMATE	MECH	MECHANICAL
EXIST	EXISTING	MEMB	MEMBRANE
EXP	EXPANSION		MEZZANINE

EXTERIOR

FD

FLOOR DRAIN

MIRROR MISCELLANEOUS MASONRY OPENING MOISTURE RESISTANT MTL MULT MULTIPLE NOT APPLICABLE NUMBER NOMINAL NON RATED NOT TO SCALE OVER OVERALL ON CENTER OUTSIDE FACE HEATING, VENTILATION & AIR OVERHANG INTERNATIONAL BUILDING CODE OVHD OVERHEAD IMPACT ISOLATION CLASS PATTERN

NOT IN CONTRACT OUTSIDE DIAMETER PARTICLE BOARD PEDESTAL PERFORATED PERIMETER PERMANENT PERPENDICULAR PH PHASE PLAM PLASTIC LAMINATE PREFAB PREFABRICATED PLWD PLYWOOD PROP PROPERTY PVG PAVING RISER RADIUS, RADII REFLECTED CEILING PLAN ROOF DRAIN

REQ'D REQUIRED

REINF REINFORCED

REVISION

RO ROUGH REC RECESSED SELF ADHERED MEMBRANE SAMF FLASHING SQUARE FEET (FOOT) SIMILAR SLAB ON GRADE SPECIFICATION SPRINKLER SQUARE SQUARE INCH SANITARY STAINLESS STEEL STAIR

SQ IN SOUND TRANSMISSION CLASS STANDARD STORAGE STOR STRUCT STRUCTURAL TELEPHONE TEMPORARY THICK (NESS) THROUGH TOP OF STEEL TOM TOP OF WALL TYPICAL UNFINISHED UNLESS NOTED OTHERWISE UTILITY UTIL VINYL COMPOSITE TILE VERIFY IN FIELD WEST

MITH

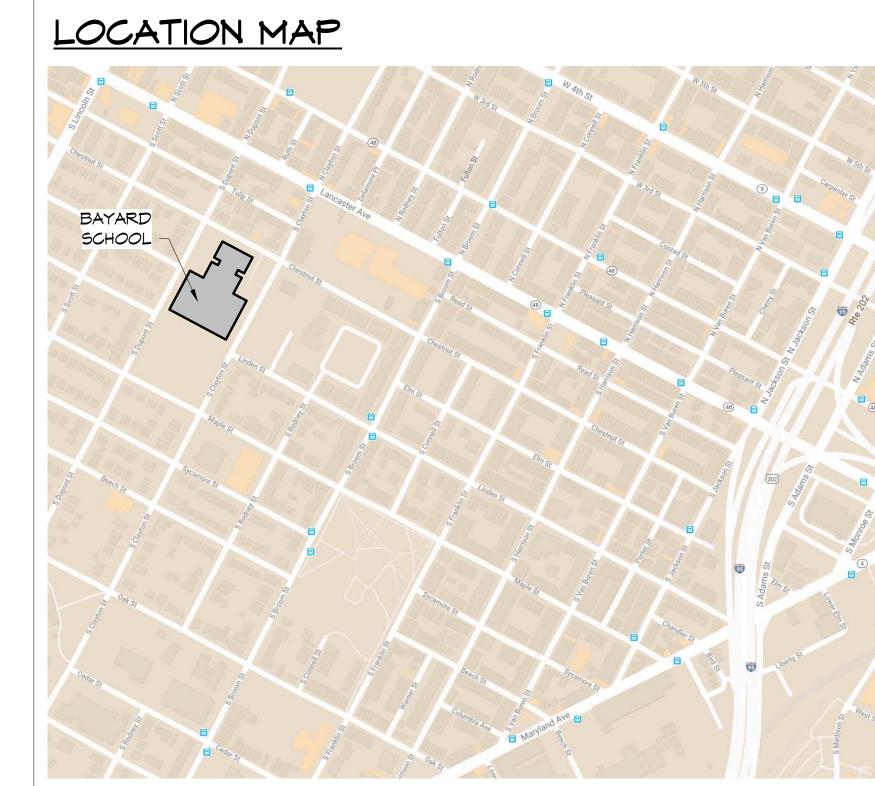


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SHEET NO

COVER SHEET AND NOTES AR10.01 AR11.01 ROOF REPLACEMENT PLANS AR11.02 ROOF REPLACEMENT DETAILS AR11.03 TYPICAL ROOFING DETAILS AR11.04 EXISTING CONDITIONS IMAGES

SHEET NAME

GENERAL NOTES

- 1. ALL WORK SHALL COMPLY WITH THE CURRENT EDITIONS OF THE LIFE SAFETY CODE (NFPA #101), ALL LOCAL AND STATE FIRE CODES, AND THE 2018 INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS.
- 2. IF THE CONTRACT DOCUMENTS ARE FOUND TO BE UNCLEAR, AMBIGUOUS, OR CONTRADICTORY, THE CONTRACTOR MUST REQUEST CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
- 3. ALL CONSTRUCTION DETAIL WORK NOT SPECIFICALLY CALLED OUT AS "EXISTING" IS ASSUMED TO BE NEW WORK IN THIS CONTRACT. SHADED AREA DENOTES EXISTING CONSTRUCTION.
- 4. THIS PROJECT CONSISTS OF EXTERIOR ROOF REPLACEMENT AND ROOF REPAIRS ONLY. NO CHANGES ARE MADE TO THE EXISTING BUILDINGS' MEANS OF EGRESS, OCCUPANCY, USE GROUP, OR AREA.
- 5. ORIGINAL CONSTRUCTION DOCUMENTS ARE NOT VERIFIED. ASSUMPTIONS ARE BASED ON FIELD OBSERVATION OF EXISTING STRUCTURE WHERE POSSIBLE, AND INFORMATION FROM ORIGINAL CONSTRUCTION DOCUMENTS WHERE
- 6. ORIGINAL CONSTRUCTION DRAWINGS INDICATE THE EXISTING ROOF IS COMPRISED OF A 3" METAL DECK WITH 2" RIGID INSULATION, BUILT-UP ROOF SYSTEM, AND GRAVEL PROTECTION COURSE.
- 7. UNLESS NOTED OTHERWISE, ALL EXISTING ROOF SYSTEMS ARE TO BE REMOVED DOWN TO EXISTING METAL DECK. EXAMINE CONDITION OF EXISTING DECK PRIOR TO INSTALLING NEW ROOFING SYSTEM. CONTACT ARCHITECT TO OBSERVE EXPOSED STRUCTURE OF EACH AREA AND INDICATE AREAS REQUIRING ATTENTION.
- 8. NEW CONSTRUCTION SHOWN ILLUSTRATES THE DESIGN INTENT OF NEW ROOF SYSTEM. FINAL CONFIGURATION, DIMENSIONS, ETC. MAY VARY TO SUIT UNCOVERED FIELD CONDITIONS.
- 9. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS. REVIEW ALL PROPOSED DRAWINGS AND VERIFY ALL DIMENSIONS. COORDINATE ANY DISCREPANCIES WITH THE ARCHITECT AND STRUCTURAL ENGINEER.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND INSPECTIONS REQUIRED TO OBTAIN CERTIFICATE OF OCCUPANCY.
- 11. THE CONTRACTOR SHALL PROVIDE ALL UTILITIES REQUIRED FOR CONSTRUCTION, AND SHALL PROVIDE TEMPORARY SANITARY FACILITIES UNTIL CONSTRUCTION IS COMPLETE.
- 12. THE CONTRACTOR SHALL COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS REGARDING THE CONTROL OF POLLUTION AS IT APPLIES TO THE WORK.
- 13. PROPERLY DISPOSE OF ALL SCRAP, DEMOLISHED, OR REMOVED MATERIALS OFF SITE.
- 14. CORE SAMPLES HAVE NOT BEEN TAKEN AT THE EXISTING ROOF. IF BIDDERS WISH TO TAKE SAMPLES, COORDINATE SCHEDULE AND LOCATIONS WITH OWNER AND ARCHITECT. BIDDER IS RESPONSIBLE FOR RETURNING ROOF TO WATERTIGHT CONDITION AFTER SAMPLING.
- 15. <u>HIDDEN CONDITIONS / OWNER ALLOWANCE</u> -BASE BID TO INCLUDE ALLOWANCE FOR ADDITIONAL WORK REQUIRED BY CONCEALED CONDITIONS OR AS REQUESTED BY OWNER. POTENTIAL ALLOWANCE WORK INCLUDES (BUT IS NOT LIMITED TO) REPAIRS TO EXISTING METAL DECK OR OTHER CONCEALED ITEMS. SEE PROJECT MANUAL AND BID FORM FOR DETAILED INFORMATION.

CONSTRUCTION NOTES

- 1. TYPICAL NEW ROOFING SYSTEM TO BE FULLY ADHERED MEMBRANE SYSTEM ON 1/2" COVER BOARD OVER 2" (min) FLAT INSULATION BOARD BASE WITH ADDITIONAL 1/4" PER FOOT TAPERED INSULATION WHERE NOTED. INSULATION BOARD TO BE FULLY ADHERED TO DECK AS DIRECTED BY SYSTEM MANUFACTURER. SEE SPECIFICATIONS FOR DETAILED
- 2. EXISTING ROOF STRUCTURE / DECK SLOPES FROM INDICATED RIDGE LINE TOWARD EAST AND WEST EDGES AT 1/8" PER FOOT
- 3. TYPICAL EXSITING ROOF CONDITIONS PHOTOGRAPHS ARE SHOWN ON COVER SHEET AND AR11-04. THESE ARE PROVIDED FOR REFERENCE AND MAY NOT INDICATED ALL CONDITIONS.
- 4. ALL OTHER EXISTING ROOFING ON BUILDING IS TO REMAIN UNLESS NOTED OTHERWISE.
- 5. WHERE SHOWN, ALL ROOF PERIMETER BLOCKING SHALL BE FULL DEPTH OF ADJACENT INSULATION, INCLUDING ADDITIONAL THICKNESS AT TAPERED AND CRICKET AREAS, ETC. INCLUDING THICKNESS ABOVE MASONRY AT EXISTIN PERIMETER. BLOCKING IS SHOWN TO MATCH THICKNESS OF TYPICAL FLAT INSULATION. PROVIDE ADDITIONAL COURSES OF BLOCKING AS REQ
- 6. ALL WOOD BLOCKING, NAILERS, AND CURBS PLACED IN ROOF CONSTRUCTION SHALL BE PRESSURE PRESERVATIVE TREATED.
- 7. ALL NOMINAL DIMENSIONS GIVEN FOR WOOD BLOCKING ARE MINIMUM SIZES. CONTRACTOR SHALL INCREASE SIZE OR QUANTITY AS REQUIRED TO SUIT FIELD CONDITIONS.
- WHERE INSULATION THICKNESS REQUIRES MULTIPLE COURSES OF BLOCKING (PARTICULARLY ALONG TAPERED SLOPES) CONTRACTOR MAY PROVIDE 2X PPT WD MEMBERS (RIPPED AS REQUIRED) SET ON EDGE OVER THE HORIZONTAL BOTTOM COURSE AND CAPPED WITH A TOP COURSE LAID HORIZONTALLY TO FORM A BOX.
- 9. REMOVE EXISTING CAST STONE CAP AT ALL AREAS AS REQUIRED FOR NEW ROOF INSTALLATION. INSTALL NEW MOOD BLOCKING AND CAP FLASHING SYSTEM AT ALL LOCATIONS UNLESS NOTED OTHERWISE. WHERE CAPS ARE INDICATED TO BE REUSED, PROTECT FROM DAMAGE DURING REMOVAL STORAGE, AND REINSTALLATION. REPLACE ALL DAMAGED FLASHINGS TO MATCH
- 10. PROTECT AND REUSE ALL EXISTING THROUGH-WALL FLASHING AND COUNTERFLASHING UNLESS OTHERWISE NOTED. REPAIR AS REQUIRED. PROVIDE NEW BASE FLASHINGS AT REMAINING ROOF CURB/WALL JUNCTIONS AND SIMILAR CONDITIONS. ALL NEW FLASHINGS TO BE INSTALLED PER MEMBRANE MANUFACTURER'S RECOMMENDED DETAILS.
- 11. EXIST PARAPET / EXPANSION JOINT HEIGHT VARIES - FIELD VERIFY ALL DIMENSIONS.
- 12. REMOVE AND REINSTALL EXISTING EQUIPMENT AS REQUIRED TO PERFORM ROOF WORK. PROJECT INTENT IS TO REUSE MXISTING CURBS IN PLACE WHERE FEASIBLE. IF EXISTING CURBS ARE FOUND TO BE DAMAGED OR DETERIORATED, REVIEW WITH OWNER AND ARCHITECT BEFORE PROCEEDING WITH FLASHING AND EQUIPMENT RESETTING.
- 13. RETAIN A MANUFACTURER-APPROVED CONTRACTOR TO PERFORM EQUIPMENT REMOVAL AND REINSTALLATION. MAINTAIN INTEGRITY OF SYSTEMS AND WARRANTIES IN EFFECT. CAPTURE AND REPLACE REFRIGERANTS IN ANY SYSTEMS THAT ARE OPENED. RETURN ALL SYSTEMS TO FULLY OPERATIONAL STATUS.
- 14. PROVIDE CRICKETS ON UPSLOPE SIDE OF ALL EQUIPMENT CURBS AND AS REQUIRED TO DIVERT WATER TO DRAIN / RWC SYSTEM.
- 15. ALL EXISTING PENETRATIONS TO RECEIVE NEW FLASHING, TIE INS, BOOTS, TRIMS, ETC. AS INDICATED IN TYPICAL DETAILS. PROVIDE PREMANUFACTURED BOOT TYPE FLASHINGS AT YTRS AND OTHER COLD PIPING. PROVIDE ISOLATED STACK FLASHING AT HOT PIPING OR WHERE REQUIRED.
- 16. WHERE ROOF ACCESS OR EQUIPMENT REQUIRING SERVICE IS WITHIN 10 FEET OF ROOF EDGE, PROVIDE NON-PENETRATING BALLASTED GUARD RAIL SYSTEM (42" HIGH

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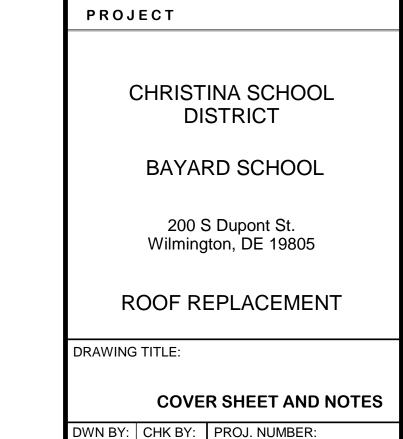
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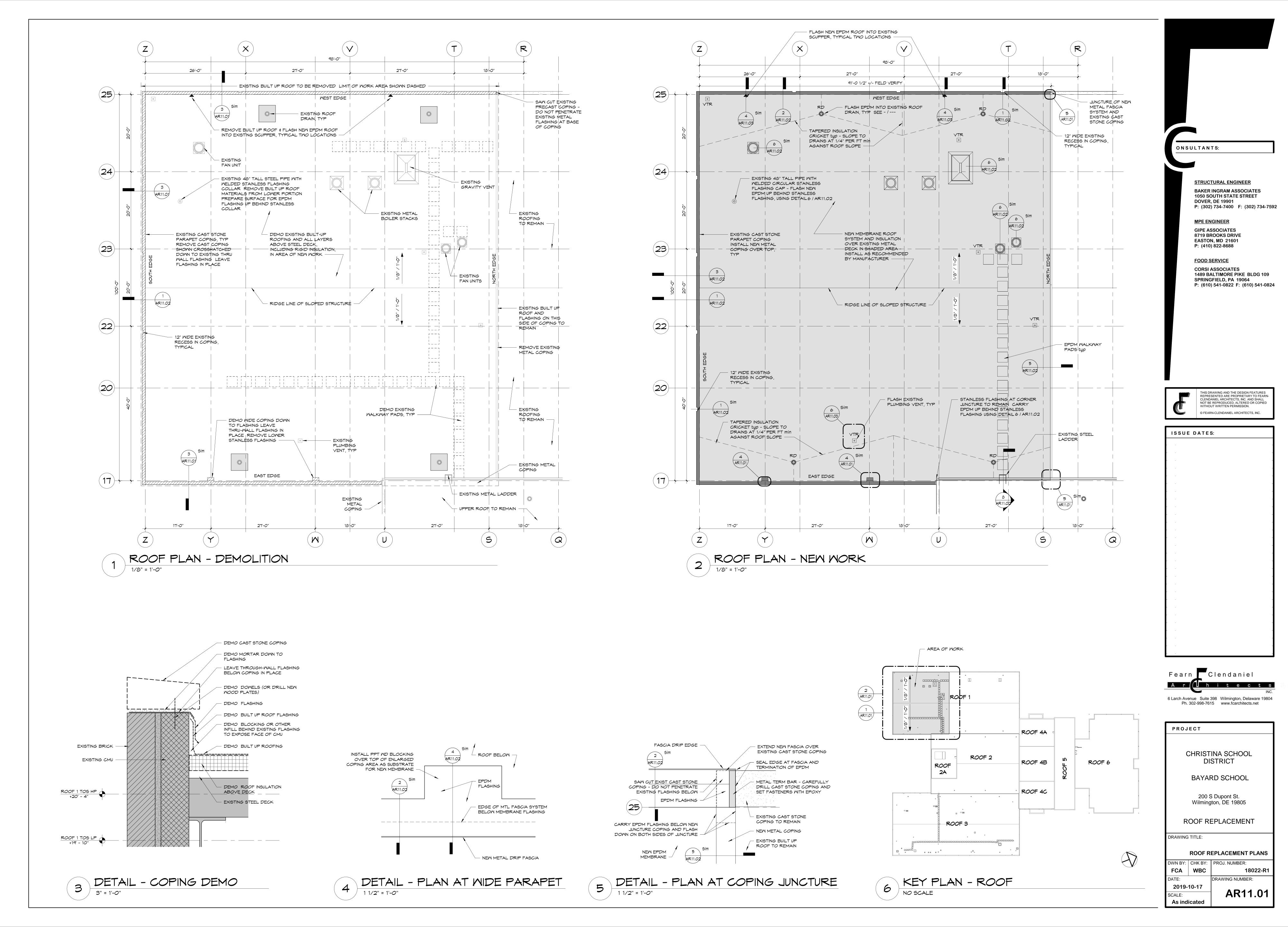
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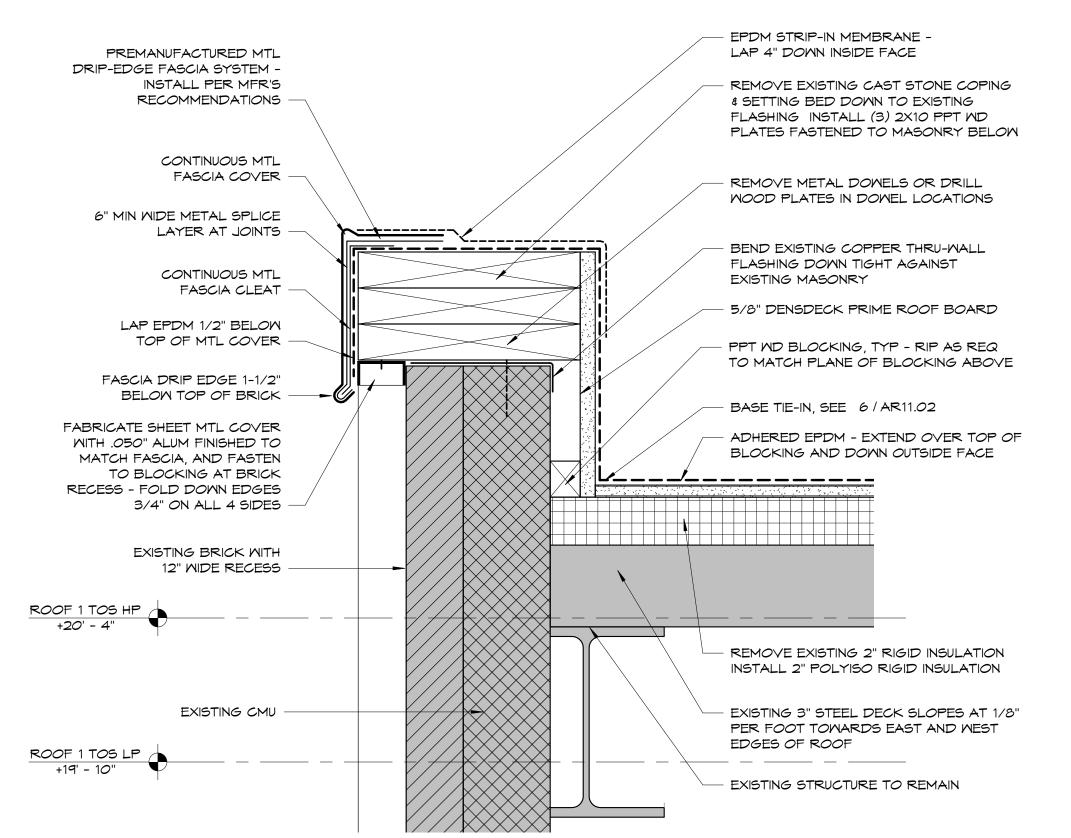
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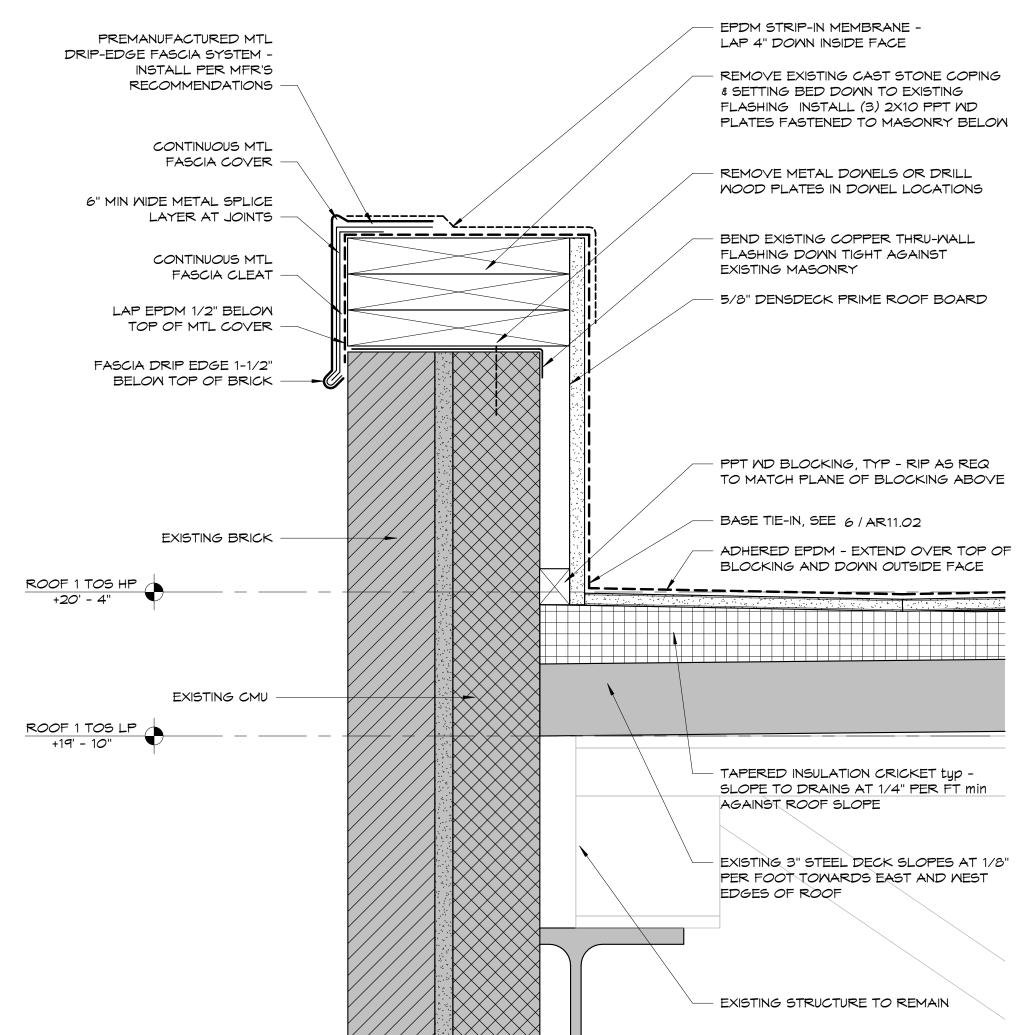
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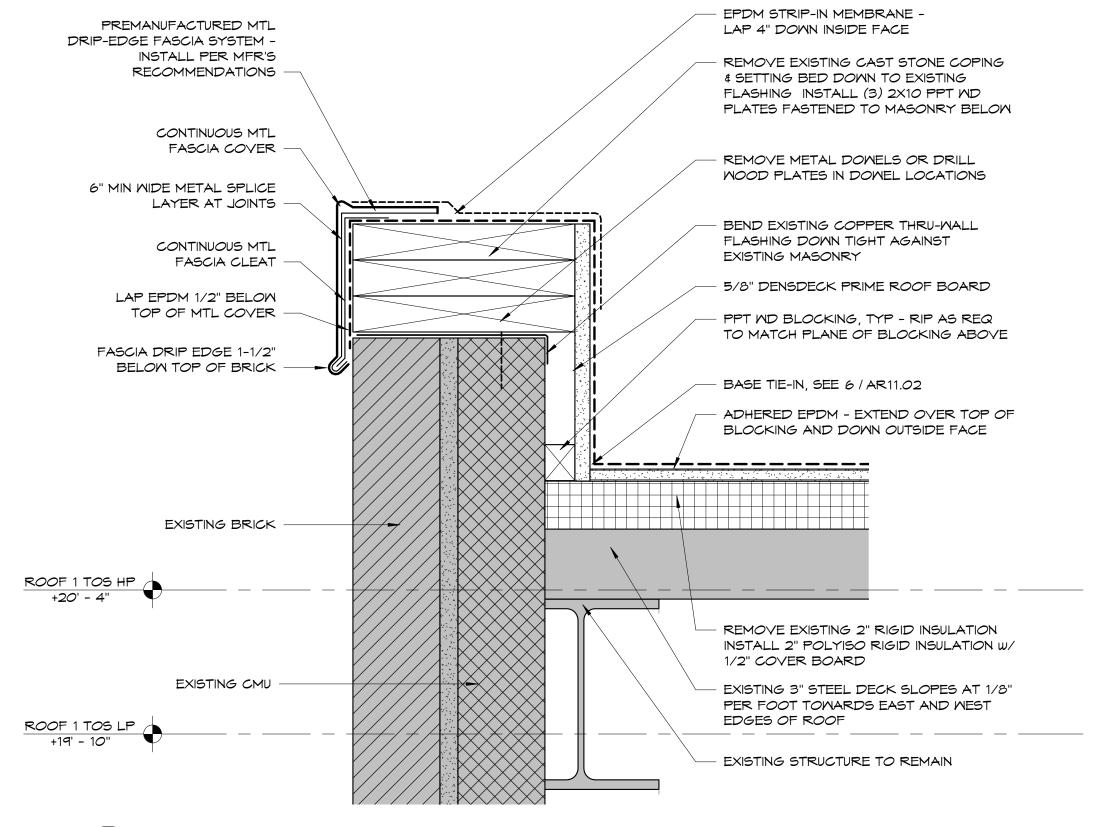
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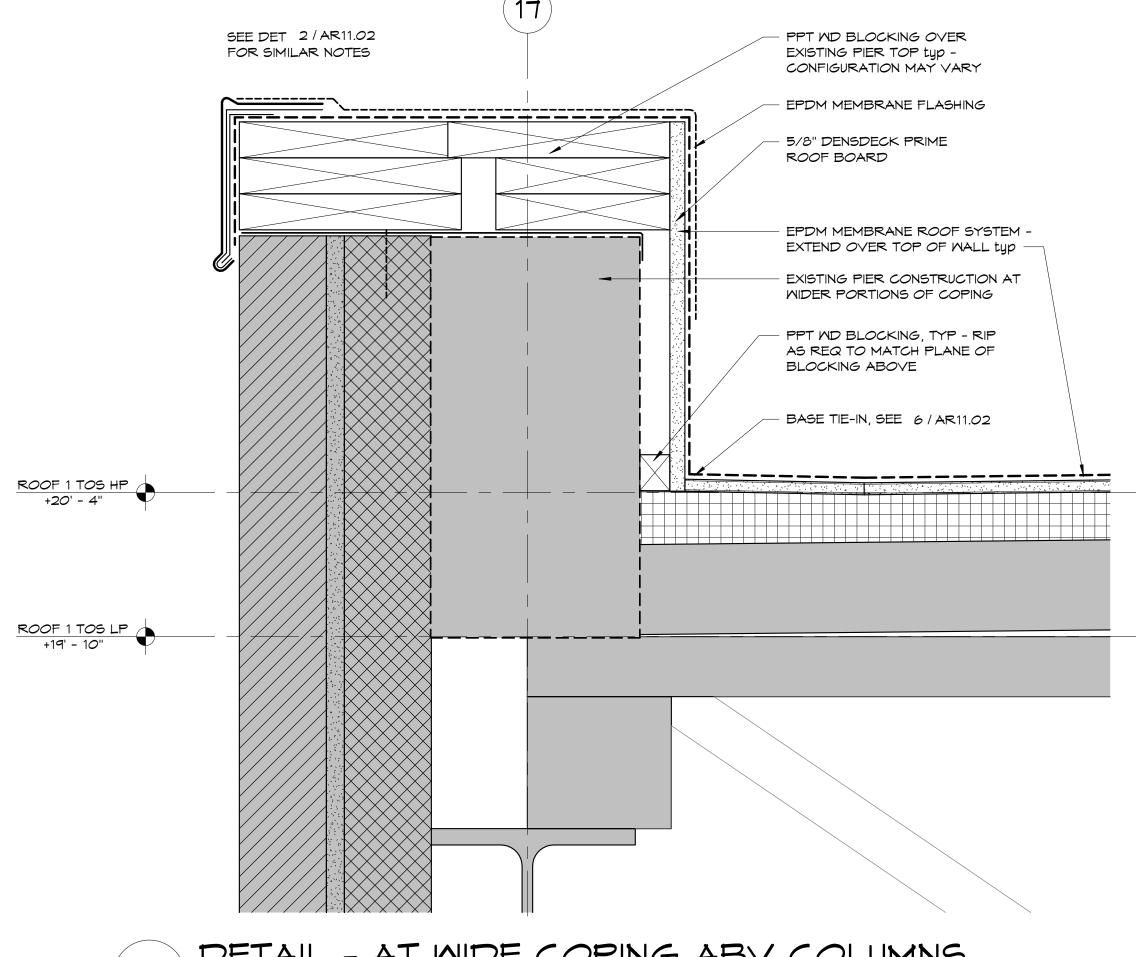




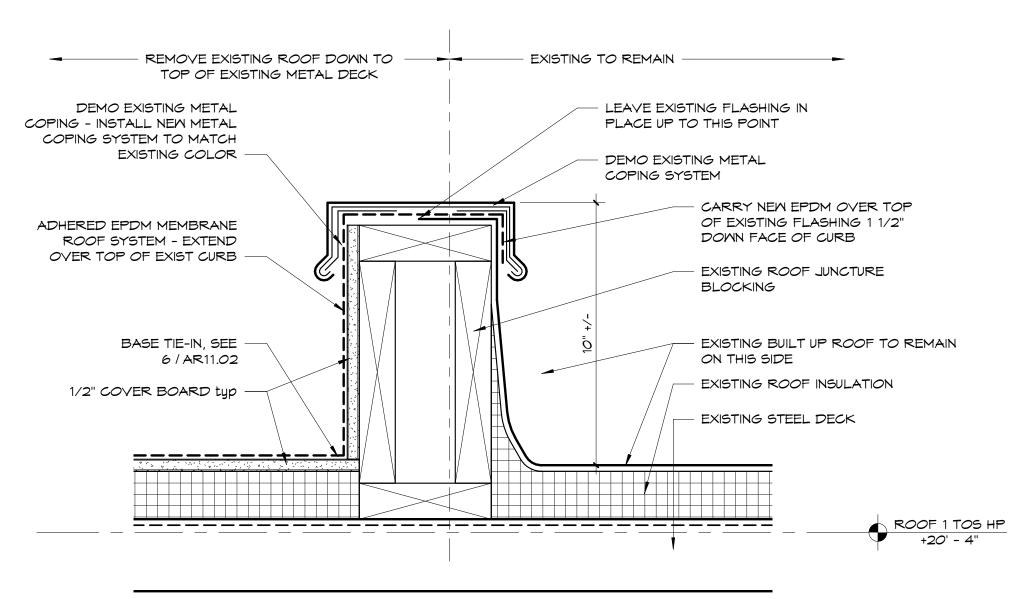




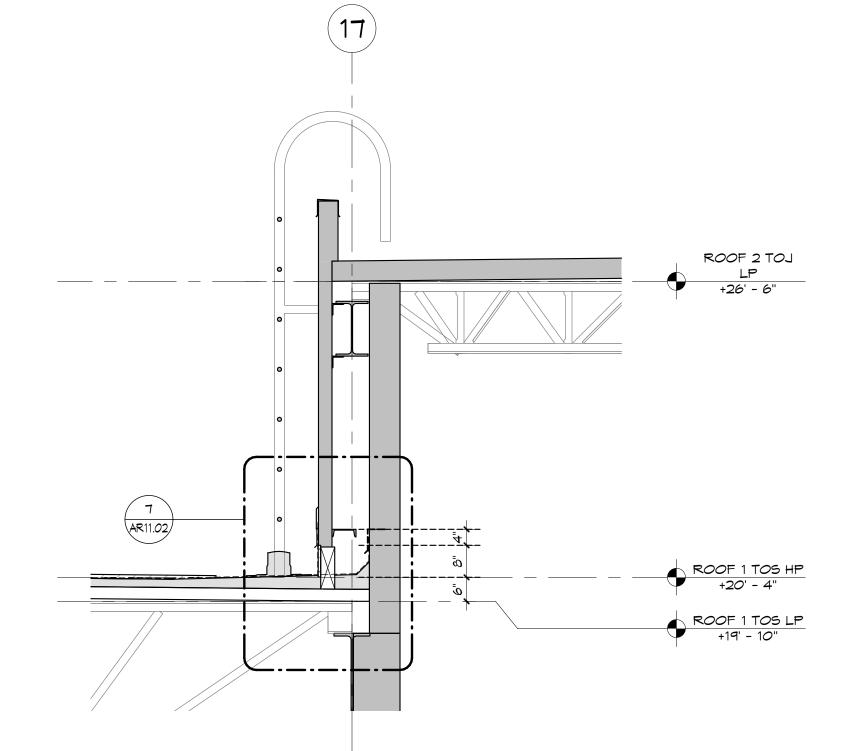
3 DETAIL - COPING AT HIGH POINT OF ROOF



4 DETAIL - AT WIDE COPING ABY COLUMNS

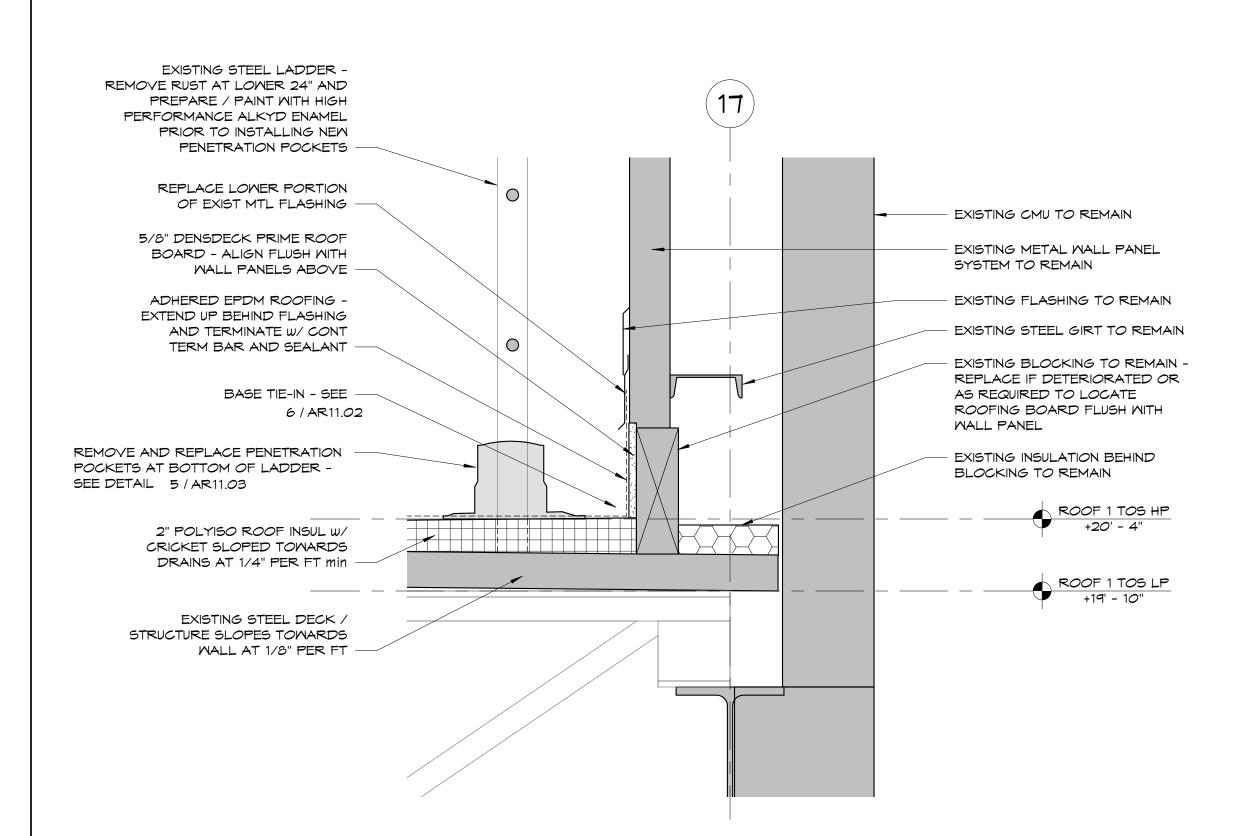


5 DETAIL - SECTION AT ROOF JUNCTURE

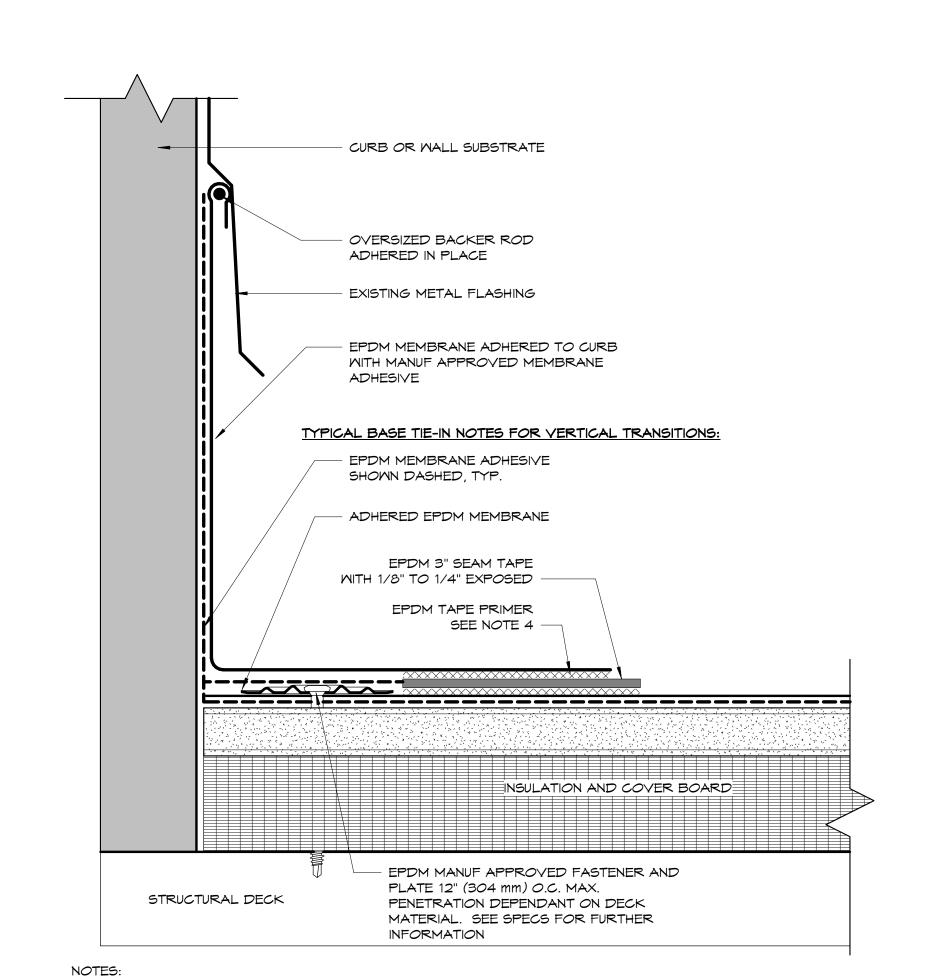


8 MALL SECTION - AT LADDER

DETAIL - COPING AT BRICK RECESS



7 DETAIL - METAL PANELS AND LADDER



DETAIL - TYPICAL COPING AT LOW POINT OF ROOF

1. REFER TO EPDM MANUF FOR MOST UP-TO-DATE INFORMATION.

2. SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.

3. ANY CARPENTRY OR METAL WORK TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS.

4. EPDM TAPE PRIMER OR SINGLE PLY MEMBRANE PRIMER (LOW VOC) MUST BE APPLIED ON ALL SURFACES COMING INTO CONTACT WITH EPDM PEEL & STICK PRODUCTS.
ROLL MEMBRANE WITH HAND ROLLER UNDER PRESSURE AT SEAM IN ACCORDANCE WITH THE MANUF EPDM INSTALLATION GUIDE.

5. 1/8" TO 1/4" OF MANUF EPDM SEAM TAPE MUST BE EXPOSED ALONG ENTIRE LENGTH OF ALL SEAMS.

6. HEIGHT OF CURB TO BE ADJUSTED WITH NAILERS AS NEEDED. IT IS PREFERRED TO RAISE CURB ONTO NAILERS TO EXTEND FLASHING HEIGHT.

6 TYPICAL EXISTING EQUIPMENT CURB & BASE TIE-IN

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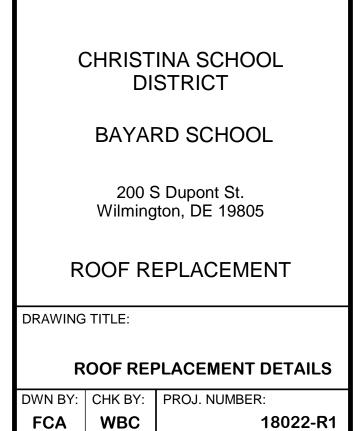
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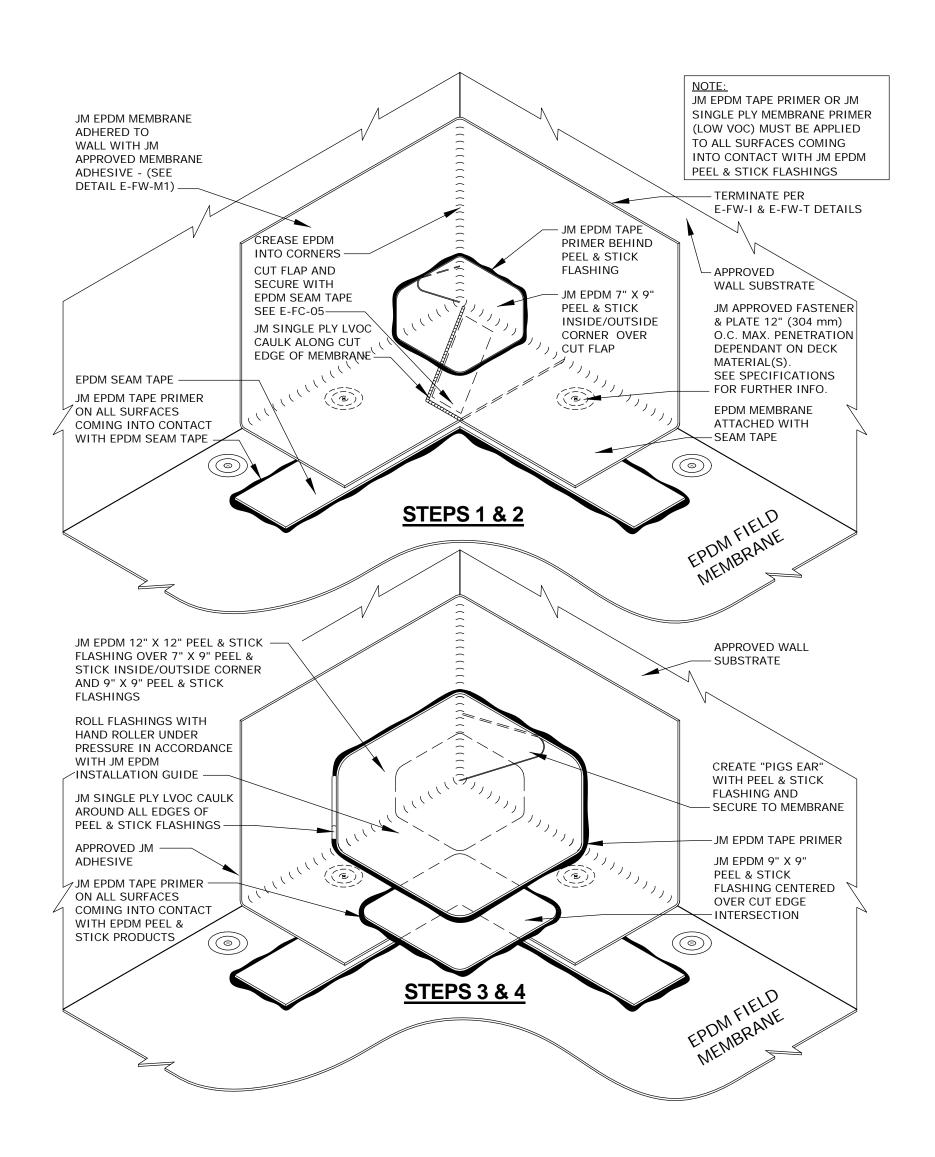
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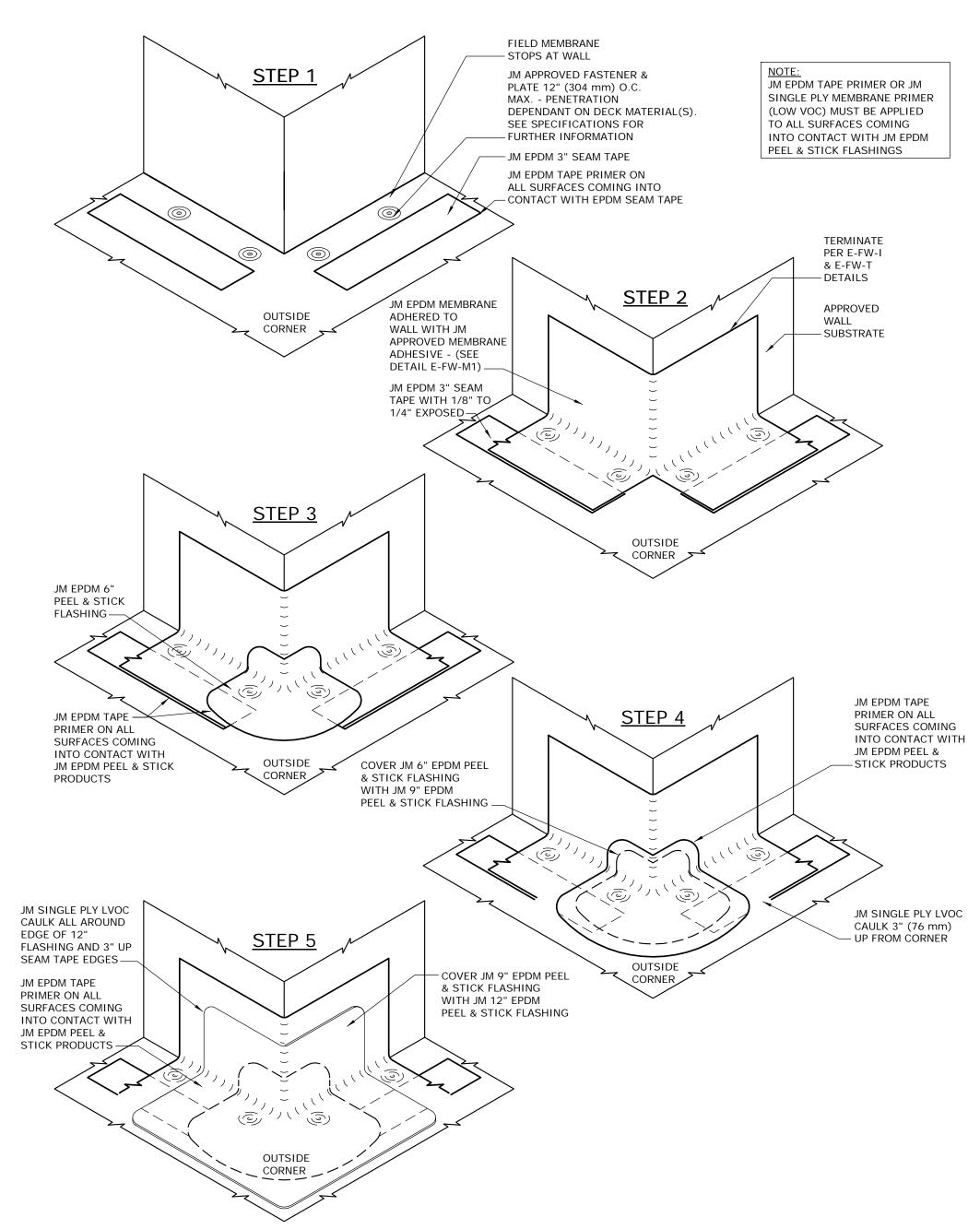


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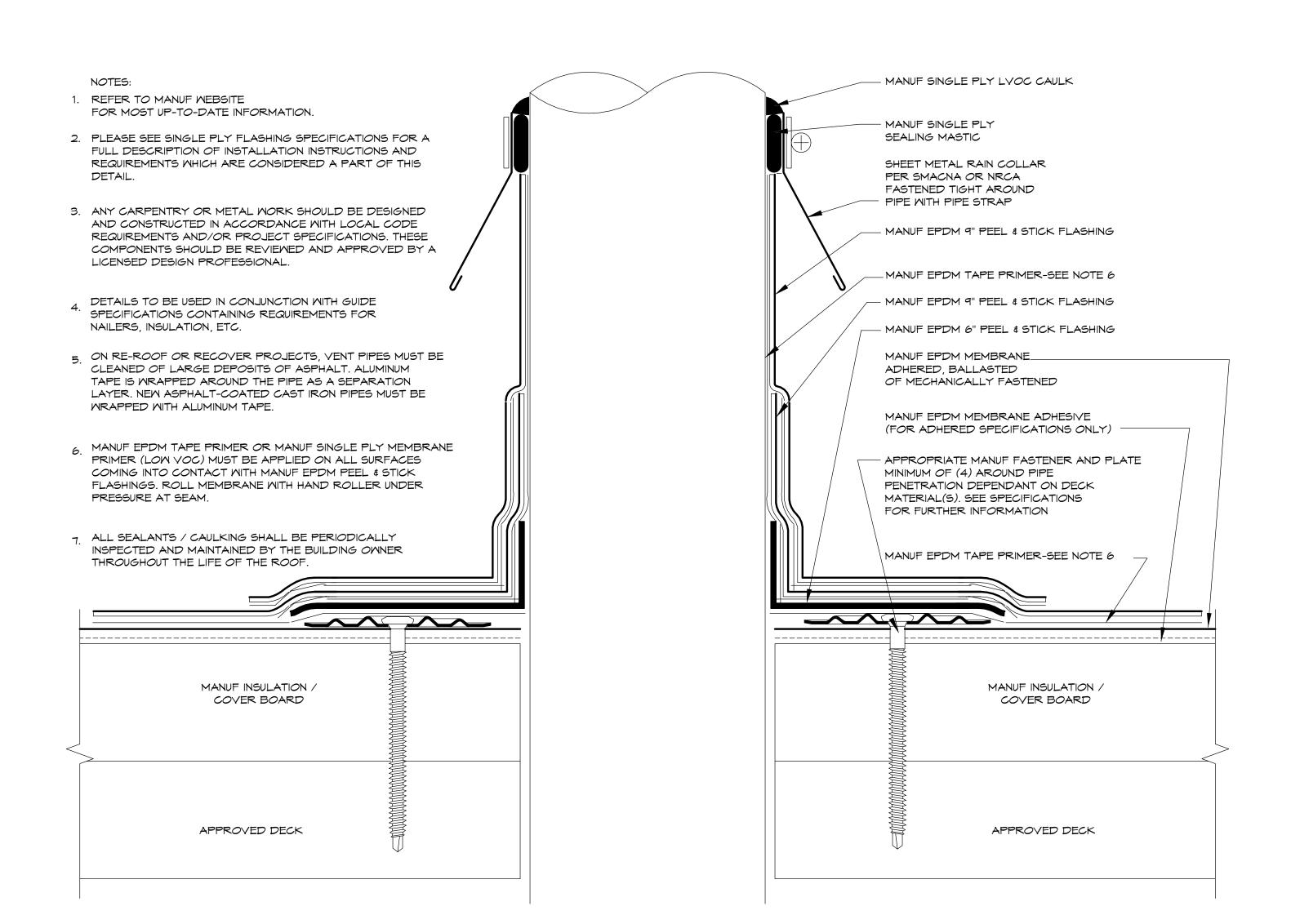
AR11.02



EPDM INSIDE CORNER



EPDM OUTSIDE CORNER



EXISTING METAL TRIM TO REMAIN. NOTES: 1. ROOF SURFACES SHOULD BE SLOPED AWAY FROM OVERFLOW DRAIN. 2. REFER TO THE SHEET METAL SECTION OF THE METAL ROOFING MANUAL FOR JOINERY AND SECUREMENT OPTIONS FOR SHEET METAL. NOTES: REFER TO MANUF WEBSITE FOR MOST UP TO DATE INFORMATION. 2. PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL. 3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL. 4 MANUF EPDM MEMBRANE MUST BE CLEANED, THEN PRIMED ON TOP OF MEMBRANE AT PEEL & STICK FLASHING WITH MANUF EPDM TAPE PRIMER OR MANUF SINGLE PLY MEMBRANE PRIMER (LOM VOC). ROLL MEMBRANE WITH ROLLER UNDER PRESSURE AT PEEL & STICK FLASHING OVER EPDM MEMBRANE. MANUF EPDM POURABLE SEALER OR MANUF ONE PART POURABLE SEALER MOUNDED TO PROHIBIT PONDING MATER FILL PENETRATION POCKET WITH NON-SHRINK GROUT (TO 1" FROM TOP) ADHESIVE MOOD NAILER SECURELY ANCHORED TO DECK NAIL PAN FLANGE FLASHING 4" O.C. MANUF SINGLE PLY SEALING MASTIC

CAST IRON DRAIN

CLAMPING RING

UNDERDECK CLAMP

RMC DRAIN PIPING

DETAIL - TYPICAL ROOF DRAIN

REMOVE EXISTING BUILT-

STAINLESS FLASHING AND

EXISTING STAINLESS STEEL FLASHING TO REMAIN.

OPTION: REPLACE IN KIND

IF METAL CANNOT BE

COMPLETELY CLEANED.

SEALANT-

SEALANT

UP ROOFING FLASHED

INTO SCUPPER. CLEAN

PREPARE FOR EPDM

JUNCTURE. -

ASSEMBLY W/ CAST IRON

DOME AND UNDERDECK

ADJUSTABLE EXTENSION

ASSEMBLY TO PROVIDE

DRAIN FLANGE FLUSH TO

TOP OF COVERBOARD

PROVIDE STATIC OR

DETAIL - THROUGH-WALL SCUPPER - RETURN EPDM PEEL & STICK FLASHING DOWN INSIDE FLANGE OF PENETRATION PAN - PRIME ALL SURFACES COMING INTO CONTACT WITH POURABLE SEALANT MITH APPROPRIATE PRIMER - METAL PENETRATION PAN FULLY SOLDERED MANUF EPDM FIELD MEMBRANE ADHERED, BALLASTED OR MECHANICALLY FASTENED MANUF EPDM MEMBRANE _ MANUF EPDM PEEL & STICK MANUF EPDM TAPE PRIMER _ MANUF INSULATION / MANUF INSULATION / COVER BOARD COVER BOARD APPROVED DECK APPROVED DECK

DETAIL - EPDM PENETRATION POCKET

ONSULTANTS:

EPDM ROOFING W/

MEMBRANE EXTEND 1"

- 30"x30" 4-LB LEAD

SIDES INTO MASTIC

1/2" COVER BOARD

TAPERED INSULATION

AT DRAIN SUMP AREA

24"x24" 14 GA STL ROOF

SUMP PAN/ RECEIVER

- THERMOSET ROOF MEMBRANE

SOLDERED/WELDED SECURED

- ADHERED FLASHING MEMBRANE

(EXTEND APPROX. 3" BEYOND

THERMOSET ROOF MEMBRANE

- EXISTING HEIGHT

STEEL DECK

1. TAPERED INSULATION MAY BE ALTERED AT

SUMPS AND SPECIFIC DRAIN AREAS TO ADDRESS LOCALIZED DRAINAGE CONDITIONS.

2. AT LOCATIONS WHERE WALLS / CURBS OR

3. SEAMS WITHIN EPDM SHALL NOT RUN WITHIN

-FLASHING

BLKG

---SEALANT

-SUMP TO DRAIN

- COVERBOARD AND THERMAL INSULATION

- EXISTING WOOD NAILERS - EXTEND FIELD SHEET

TO BELOW BLOCKING

ROOF DECK

TO WALL AND

- SHEET MTL SCUPPER,

INCHES OF THE CLAMPING RING.

OTHER OBSTRUCTIONS ARE WITHIN SUMP AREA,

EXTEND TAPERED SUMP MAXIMUM ALLOWABLE.

ROOF DRAIN NOTES:

FLASHING, PRIMED BOTH

PAST THE CLAMP RING

ROUND HOLE IN

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ROOF REPLACEMENT

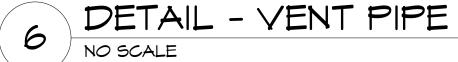
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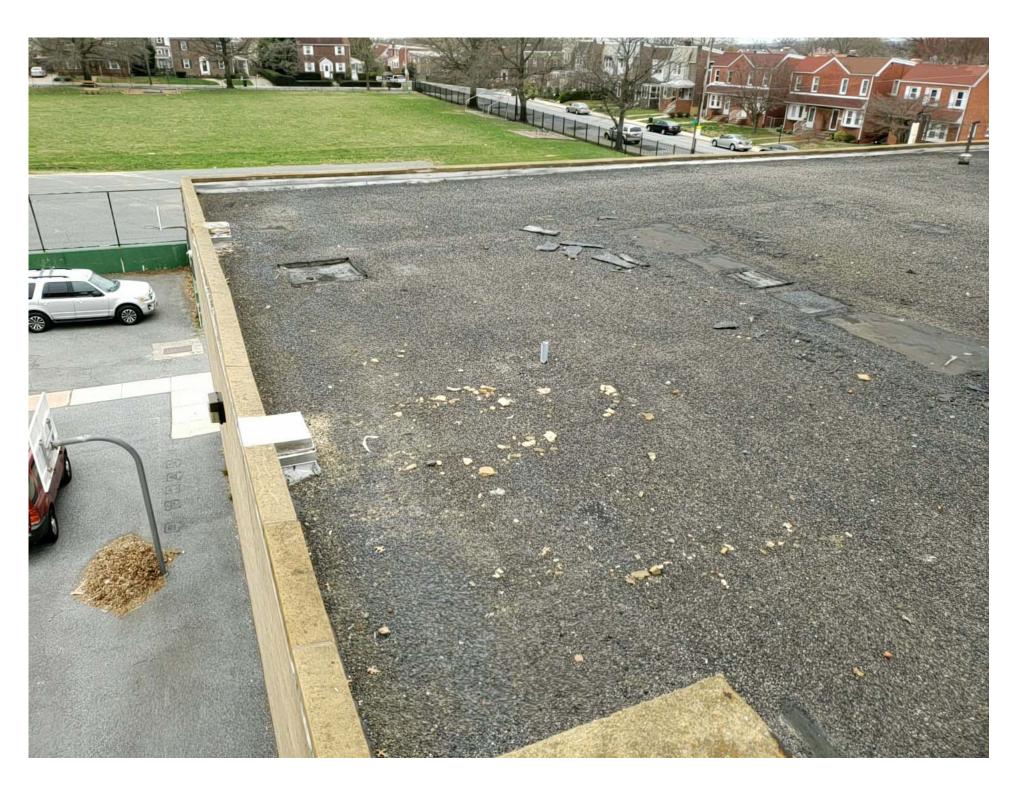
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TYPICAL ROOFING DETAILS DWN BY: CHK BY: PROJ. NUMBER: 18022-R1 DRAWING NUMBER: 2019-10-17 AR11.03 SCALE:











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EXISTING ROOF
NO SCALE





EXISTING ROOF
NO SCALE





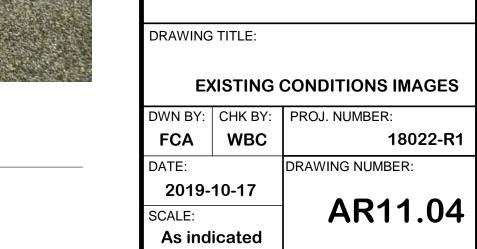




EXISTING ROOF







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