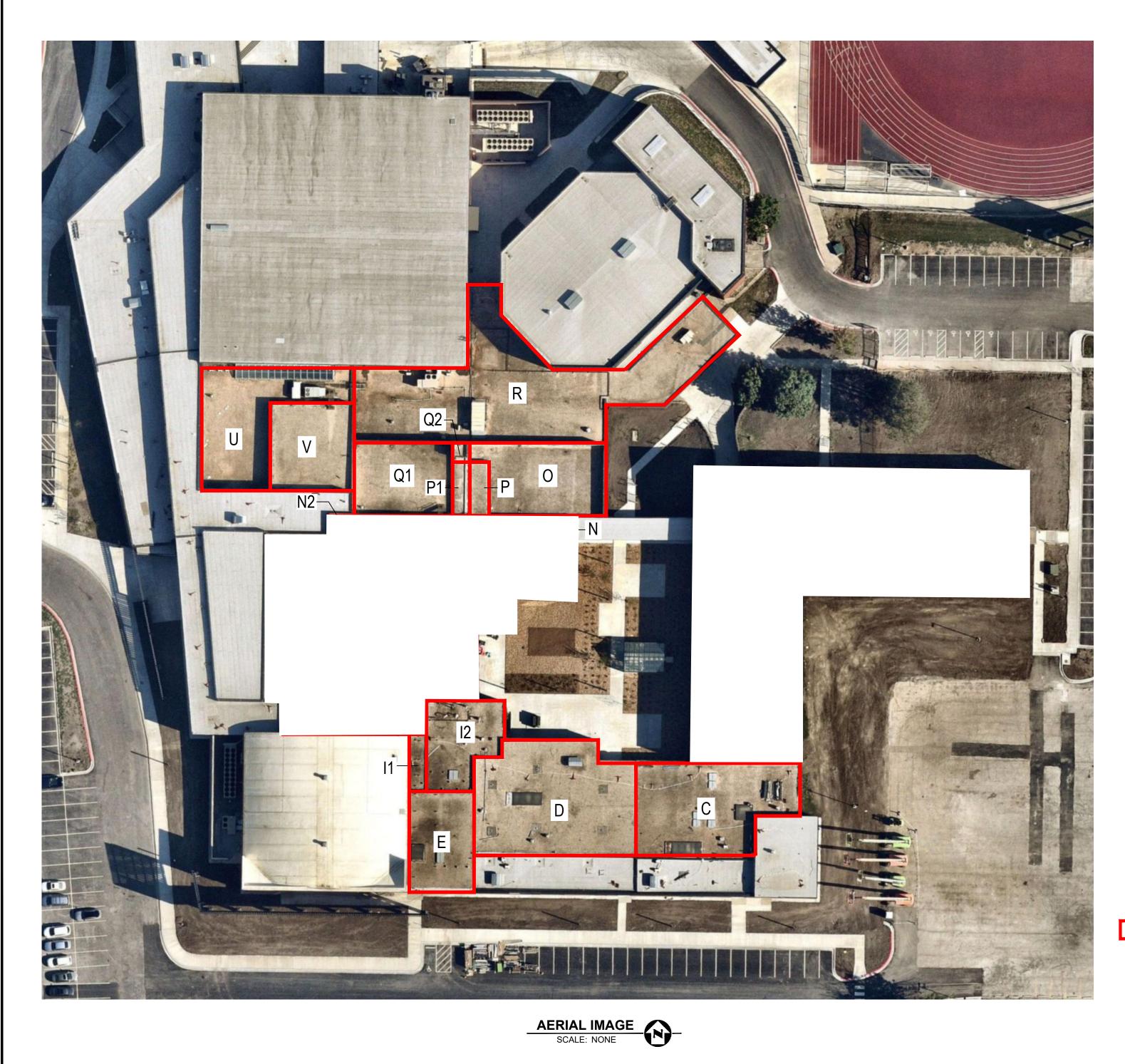
LEE'S SUMMIT R-7 SCHOOL DISTRICT 400 SE BLUE PARKWAY LEE'S SUMMIT, MO 64063

LEE'S SUMMIT HIGH SCHOOL (BUILDING A) 2023-2024 ROOF REPLACEMENT SECTIONS C, D, E, G, H, I1, I2, 13, 14, J, K, M, N, N1, N2, O, P, P1, Q1, Q2, R, U, AND V



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LEGEND

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PROJECT AREA ROOF SECTION

D, & E IS C, D, & E & H 1-I4, J, K, M, N, N1, & N2 NS I1-I4, J, K, M, N, N1, & N2 , P, P1, Q1, Q2, R, U, & V

AND DETAILS

	TATC.		DRAFTER: I. BUS I UN CHECKED BY SENCHMARK L. STEIN BENCHMARK 23LSSLESUR010B001.dwg DRAWING NO: 23LSSLESUR010B001.dwg
CEDAR RAPIDS, IA • WAUKESHA, WI Phone: 319.393.9100 www.benchmark-inc.com	CLENT CLENT	UR010B	

DRAWING RECOR

BID SET

ADDENDUM NO. 1

DATE

02/06/24 T

02/16/24 TH

1.01	gene A.		SUMMARY OF WORK IS	FOR THE CONVENIENCE OF THE CONTRACTOR ONLY AND SHALL NOT BE CONSTRUED AS			
		A CC	MPLETE ACCOUNTING C	OF ALL WORK TO BE PERFORMED.			
	В.		Extent of the scope (Tion of the specificat	OF WORK IS INDICATED ON THE DRAWINGS AND BY THE REQUIREMENTS OF EACH FIONS.			
	C.			AMINE THE SITE AND SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING			
.02	QUAL		STRUCTION AND CONDIT	TIONS. REFER TO DIVISION 00 REQUIREMENTS.			
	A.			R'S TECHNICAL REPRESENTATIVE, WHO SHALL BE A FULL-TIME EMPLOYEE OF THE			
		THE	BEGINNING OF MEMBRA	R, SHALL PROVIDE ON-SITE TRAINING AND QUALITY ASSURANCE IN CONJUNCTION WITH NE INSTALLATION. THE MANUFACTURER'S TECHNICAL REPRESENTATIVE SHALL THEN			
			REAFTER.	QUALITY ASSURANCE AND FOLLOW-UP TRAINING A MINIMUM OF EVERY THREE WEEKS			
	В.			INICAL REPRESENTATIVE SHALL COORDINATE ALL SITE VISITS WITH THE CONTRACTOR TIVE A MINIMUM OF THREE BUSINESS DAYS IN ADVANCE.			
	C.	DUR	ING EACH VISIT, THE MA	NUFACTURER'S TECHNICAL REPRESENTATIVE SHALL CHECK ALL WORK INSTALLED			
				ALL DEFECTS FOR REPAIR, AND PROVIDE A WRITTEN SITE VISITATION REPORT LISTING IRING CORRECTION BY THE CONTRACTOR.			
	D.			ORRESPONDENCE ASSOCIATED WITH THE SITE VISIT SHALL BE PROVIDED TO THE TRACTOR SHALL PROVIDE THESE REPORTS TO THE CONSULTANT WITHIN THREE			
			INESS DAYS OF THE VISI				
1.03				R REQUIREMENTS DURING BIDDING AND CONSTRUCTION		В.	(
	A.	MAN	UFACTURER'S MINIMUM	S MAY REQUIRE MATERIALS OR INSTALLATION PRACTICES THAT EXCEED THE REQUIREMENTS FOR THE SPECIFIED WARRANTY. THE REQUIREMENTS OF THE CONTRACT		C.	-
		NOT	BE ALTERED DURING BI	E MANUFACTURER'S REQUIREMENTS IN THESE INSTANCES. THESE REQUIREMENTS MAY DDING OR INSTALLATION OF THE WORK, UNLESS FORMAL MODIFICATIONS ARE ISSUED		0.	I
	B.			RUCTION BY THE OWNER OR OWNER'S REPRESENTATIVE.	1.06	DEN	n NOL
	5.	EXC	EED THE REQUIREMENTS	S OF THE CONTRACT DOCUMENTS; OR IF THE CONTRACT DOCUMENTS DO NOT RER'S REQUIREMENT PERTINENT TO SUCCESSFUL PERFORMANCE OF THE WORK, THE		A.	(
				R'S REQUIREMENTS SHALL BE FOLLOWED IN THESE INSTANCES.		В.	I
	C.			JIREMENTS MAY CONTAIN MORE DETAIL ABOUT WORK EXECUTION-RELATED PROCEDURES MENTS. WHERE THESE ADDITIONAL REQUIREMENTS DO NOT CONFLICT WITH THE CONTRACT		C. D.	۱ -
				UIDE THE PERFORMANCE OF RELATED ASPECTS OF THE WORK.		D. E.	I
.04	INTER A.		ROTECTION AND COORE RDINATE ALL ASPECTS (DINATION OF INTERIOR PROTECTION WITH THE OWNER'S REPRESENTATIVE AND OWNER'S			I
		OPE	RATIONS.			F.	
	В.			URES WITHIN THE BUILDING AS SPECIFIED, PRIOR TO REPLACING DETERIORATED SOLETE EQUIPMENT AND PENETRATIONS.		G.	I
	C.			E DOWN TEMPORARY INTERIOR PROTECTION AS SPECIFIED.		н.	ł
	D.			ON WITHIN THE BUILDING FROM THE BEGINNING OF TEAR-OFF, UNTIL SUCH TIME AS CTION MATERIAL MAY NOT ENTER THE BUILDING. CONTRACTOR'S INTERIOR PERSONNEL		I.	
		SHA		TACT WITH CREW SUPERVISOR ON THE ROOF AT ALL TIMES. REFER TO SPECIFIED		J.	:
	E.	PRIC	R TO DEMOLITION WORK	K, VERIFY THAT ALL SOIL PIPES, FLUES, STEEL MEMBERS, AND OTHER SIMILAR		υ.	I
		PEN	ETRATIONS ARE SECURE	ED TO THE BUILDING STRUCTURE. COORDINATE REMOVAL OR SECUREMENT OF ALL PRIOR TO THE START OF DEMOLITION WORK.		K.	I
1.05	EXIST		OOF SYSTEM INFORMAT			L. M.	ł
	A.		ER TO INFORMATION BEL EVED TO EXIST, LISTED 1	LOW FOR A DESCRIPTION OF THE EXISTING ROOF ASSEMBLY COMPONENTS AS THEY ARE		N.	-
			ROOF SECTIONS C, N AN			0.	I
			SURFACING	FLOOD COAT AND GRAVEL		P.	(
			ROOF MEMBRANE	4-PLY COAL TAR PITCH BUR 1" PERLITE			I
			INSULATION	1" POLYISOCYANURATE		Q. R.	F
			VAPOR RETARDER ROOF DECK	2-PLY FELT STEEL		S.	4
		2.	ROOF SECTION D				ר ם
			SURFACING	FLOOD COAT AND GRAVEL	1.07	DEC	
			ROOF MEMBRANE	4-PLY COAL TAR PITCH BUR 1/2" WOOD FIBERBOARD		A.	F
			INSULATION	1.5" POLYISOCYANURATE		B.	F (
			INSULATION BASE SHEET	2" POLYISOCYANURATE ORGANIC BASE SHEET		C.	I
			ROOF DECK	POURED GYPSUM OVER FORM BOARD		D.	F
		3.	ROOF SECTIONS E AND	11		E.	(E
			SURFACING ROOF MEMBRANE	FLOOD COAT AND GRAVEL 4-PLY COAL TAR PITCH BUR			([
			INSULATION	1" PERLITE		F.	۱ ر
				1" POLYISOCYANURATE		г.	E
			UNDERLAYMENT ROOF DECK	ROSIN PAPER WOOD PLANK			([
		4.	ROOF SECTIONS G, M, O	D, Q1, AND R	1.08	ROL	ICH
			SURFACING	FLOOD COAT AND GRAVEL	1.00	A.	I
			ROOF MEMBRANE INSULATION	4-PLY COAL TAR PITCH BUR 1" PERLITE			I
			INSULATION	1" POLYISOCYANURATE		В	:
			ROOF DECK	STEEL		C.	
		5.	ROOF SECTION H SURFACING	FLOOD COAT AND GRAVEL		D.	
			ROOF MEMBRANE	4-PLY COAL TAR PITCH BUR		E. F.	
			BASE SHEET ROOF DECK	ORGANIC BASE SHEET LWIC		••	
			ROOF DECK	STEEL FORM DECK		G.	
		6.	ROOF SECTIONS 12, P AN	ND Q2	1.09	Н. Мет	
			SURFACING	FLOOD COAT AND GRAVEL		A.	AL
			ROOF MEMBRANE	4-PLY COAL TAR PITCH BUR 1" PERLITE	1.10	MIS	
				1" POLYISOCYANURATE		А.	
		7			1.11	VAP A.	POR
		7.	ROOF SECTIONS 13 AND SURFACING	J FLOOD COAT AND GRAVEL		А. В.	
			ROOF MEMBRANE	4-PLY COAL TAR PITCH BUR	1.12		
			INSULATION INSULATION	1/2" PERLITE 1.5" POLYISOCYANURATE		A.	
			UNDERLAYMENT	ROSIN PAPER		B.	
			ROOF DECK	WOOD PLANK		C. D.	
			ROOF SECTION 14			D. E.	
		8.	SURFACING	FLOOD COAT AND GRAVEL 4-PLY COAL TAR PITCH BUR		F.	
		8.	SURFACING ROOF MEMBRANE	4-FLT COAL TAK FITCH BOK			
		8.	ROOF MEMBRANE INSULATION	1/2" WOOD FIBERBOARD	1.13		
		8.	ROOF MEMBRANE		1.13	A.	
		8.	ROOF MEMBRANE INSULATION INSULATION	1/2" WOOD FIBERBOARD 1.5" POLYISOCYANURATE	1.13	А. В.	
			ROOF MEMBRANE INSULATION INSULATION BASE SHEET ROOF DECK ROOF SECTIONS K AND	1/2" WOOD FIBERBOARD 1.5" POLYISOCYANURATE ORGANIC BASE SHEET POURED GYPSUM OVER FORM BOARD N2	1.13	A.	
			ROOF MEMBRANE INSULATION INSULATION BASE SHEET ROOF DECK	1/2" WOOD FIBERBOARD 1.5" POLYISOCYANURATE ORGANIC BASE SHEET POURED GYPSUM OVER FORM BOARD	1.13	А. В. С.	V SL

SUMMARY OF WORK

	INSULATION	1" POLYISOCYANURATE
	INSULATION	1" WOOD FIBERBOARD
	BASE SHEET	ORGANIC BASE SHEET
	ROOF DECK	POURED GYPSUM OVER FORM BOARD
10.	ROOF SECTION P1	
	SURFACING	FLOOD COAT AND GRAVEL
	ROOF MEMBRANE	4-PLY COAL TAR PITCH BUR
	INSULATION	1" PERLITE
	INSULATION	1" POLYISOCYANURATE
	BASE SHEET	ORGANIC BASE SHEET
	ROOF DECK	POURED GYPSUM OVER FORM BOARD
1.	ROOF SECTIONS U AND V	
	SURFACING	FLOOD COAT AND GRAVEL
	ROOF MEMBRANE	4-PLY COAL TAR PITCH BUR
	INSULATION	1/2" WOOD FIBERBOARD
	INSULATION	3" EXPANDED POLYSTYRENE
	THERMAL BARRIER	5/8" GYPSUM BOARD
	VAPOR RETARDER	2-PLY FELT
	ROOF DECK	STEEL

DNTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION PRIOR TO BASING BIDS ON THE PROVIDED FORMATION.

ST CUTTING AND IMMEDIATE PATCHING BY THE CONTRACTOR WILL BE ALLOWED AT THE PRE-BID MEETING. ROVIDED THE ASSOCIATED WORK IS PERFORMED BY QUALIFIED PERSONNEL WITH SUITABLE/COMPATIBLE ATERIALS. CONTRACTOR SHALL POSSESS ALL ASSOCIATED SDS AND APPROPRIATE PPE.

ION AND ROOF PREPARATION

DORDINATE ALL ASPECTS OF DEMOLITION WORK WITH OWNER'S REPRESENTATIVE AND ALL OTHER TRADES. ROVIDE PROTECTIVE MEASURES AROUND THE ROOF AND BUILDING AS SPECIFIED, PRIOR TO BEGINNING WORK. ATER TEST ALL DRAINS TO ENSURE PROPER OPERATION PRIOR TO BEGINNING WORK.

AR OFF EXISTING ROOF SYSTEM TO THE ROOF DECKING.

EMOVE FASTENERS AT EXISTING MEMBRANE, INSULATION, CARPENTRY, FLASHING TERMINATIONS, AND SHEET ETAL COMPONENTS BY BACKING OUT, WHENEVER POSSIBLE.

EMOVE DETERIORATED WOOD LUMBER/NAILERS/PLYWOOD LOCATED DURING POST-TEAR-OFF INSPECTION. RFORM THIS WORK ON A UNIT PRICE BASIS.

EMOVE EXISTING WOOD LUMBER/NAILERS/PLYWOOD WHERE REQUIRED TO MEET THE INTENT OF THE DRAWINGS. EMOVE EXISTING ROOF CURBS, AS NOTED.

EMOVE OBSOLETE ROOF PENETRATIONS AND OBSOLETE ROOFTOP EQUIPMENT IDENTIFIED ON THE DRAWINGS. DNTRACTOR SHALL VERIFY AND COORDINATE EQUIPMENT REMOVAL WITH THE OWNER. CONTRACTOR SHALL RFORM ALL NECESSARY SERVICE DISCONNECTS.

EAL ALL PERIMETERS, PENETRATIONS, AND DRAINS AS REQUIRED TO PREVENT CONSTRUCTION MATERIALS FROM ITERING THE BUILDING.

EMOVE AND DISPOSE OF EXISTING ROOF-RELATED SHEET METAL, UNLESS NOTED OTHERWISE ON THE DRAWINGS. EMOVE EXISTING REGLET COUNTERFLASHINGS WHERE NOTED AND REUSE EXISTING RECEIVER.

EMOVE AND REINSTALL WALL PANELS AS REQUIRED FOR INSTALLATION OF FLASHING WORK.

RIM, MODIFY, AND REFASTEN EXISTING WALL PANELS AS REQUIRED FOR INSTALLATION OF FLASHING WORK. EMOVE ALL DEBRIS FROM DECKING. ENTIRE DECK SHALL BE BROOMED CLEAN AT A MINIMUM PRIOR TO BEGINNING DOF SYSTEM APPLICATION.

EAN EXISTING DRAINS DOWN TO THE CAST IRON SURFACE AND PREPARE DRAINS FOR MEMBRANE ROOFING. EMOVE BROKEN DRAIN BOLTS FROM DRAIN CASTINGS WHERE REQUIRED.

EMOVE DEBRIS FROM ROOF AREA AND PROPERLY DISPOSE OF ALL MATERIALS OFF SITE. RIME SURFACES TO RECEIVE VAPOR RETARDER AND VAPOR RETARDER FLASHINGS, AS SPECIFIED.

THE END OF EACH DAY, ENSURE THAT ALL DRAINS ARE IN PROPER WORKING ORDER AND THAT DRAIN LINES ARE TALLY UNRESTRICTED. IMPLEMENT ANY REQUIRED CORRECTIVE MEASURES BEFORE LEAVING THE JOB SITE THAT

REPAIR/REPLACEMENT

EPLACE DETERIORATED DECKING AS SPECIFIED. PERFORM THIS WORK ON A UNIT PRICE BASIS.

EPLACE DECKING WHERE OBSOLETE PENETRATIONS HAVE BEEN REMOVED. EAN, WIRE BRUSH, AND PRIME PAINT SURFACE RUSTED STEEL ENCOUNTERED DURING POST TEAR-OFF

SPECTION OF THE DECKING. PERFORM THIS WORK ON A UNIT PRICE BASIS.

FASTEN EXISTING DECKING AS SPECIFIED ON ROOF SECTIONS C, G, M, N, N1, O, Q1, R, U, AND V. DNTRACTOR SHALL REPAIR ALL DEFORMITIES IN THE LIGHTWEIGHT CONCRETE CAUSED BY THE REMOVAL OF THE (ISTING ROOF SYSTEM FASTENERS GREATER THAN 1" IN DIAMETER (BUT NOT GREATER THAN 6" IN DIAMETER OR REATER THAN 3/4" DEEP), AT NO ADDITIONAL COST TO THE OWNER. REPAIRS TO AREAS LARGER THAN 6" IN AMETER OR GREATER THAN 3/4" DEEP WILL BE REIMBURSED ON A UNIT PRICE BASIS. REPAIRS SHALL BE MADE TH ZONOPATCH BY SIPLAST, INC. OR APPROVED EQUAL.

DNTRACTOR SHALL REPAIR ALL DEFORMITIES IN THE GYPSUM DECKING CAUSED BY THE REMOVAL OF THE (ISTING ROOF SYSTEM FASTENERS GREATER THAN 1" IN DIAMETER (BUT NOT GREATER THAN 6" IN DIAMETER OR REATER THAN 3/4" DEEP), AT NO ADDITIONAL COST TO THE OWNER. REPAIRS TO AREAS LARGER THAN 6" IN AMETER OR GREATER THAN 3/4" DEEP WILL BE REIMBURSED ON A UNIT PRICE BASIS. REPAIRS SHALL BE MADE TH USG SECUROCK® GYPSUM CONCRETE PATCH BY USG CORPORATION.

ARPENTRY

STALL REPLACEMENT WOOD LUMBER/NAILERS/PLYWOOD WHERE DETERIORATED COMPONENTS WERE REMOVED. RFORM THIS WORK ON A UNIT PRICE BASIS.

FASTEN EXISTING LUMBER/NAILERS/PLYWOOD TO BUILDING STRUCTURE AS REQUIRED TO MEET THE SPECIFIED ANDARDS.

STALL WOOD CURBS AS SHOWN ON THE DRAWINGS.

STALL WOOD NAILERS AS SHOWN ON THE DRAWINGS.

STALL WOOD NAILERS WHERE REQUIRED TO MATCH HEIGHT OF NEW ROOF INSULATION SYSTEM.

STALL WOOD NAILERS FOR CURB EXTENSIONS AS REQUIRED FOR MINIMUM CURB HEIGHT OF 8" ABOVE FINISHED OOF SURFACE ELEVATION.

STALL WOOD NAILER AT PARAPET WALL.

STALL PLYWOOD AS SHOWN ON THE DRAWINGS. ABRICATIONS

STALL PREMANUFACTURED METAL STAIRS AND PLATFORM WITH HANDRAIL.

ANEOUS INSULATION

STALL FIBERGLASS BATT INSULATION IN POLYETHYLENE SADDLE AT EXPANSION JOINTS.

ETARDER

STALL VAPOR RETARDER SYSTEM, AS SPECIFIED.

ASH AND SEAL VAPOR RETARDER AT ALL PERIMETERS AND PENETRATIONS.

ULATION

STALL ROOF INSULATION AND MEANS OF ATTACHMENT PER DRAWINGS AND SPECIFICATIONS.

STALL TAPERED INSULATION SYSTEM AND MEANS OF ATTACHMENT PER DRAWINGS AND SPECIFICATIONS.

STALL TAPERED INSULATION DRAIN SUMPS PER DRAWINGS AND SPECIFICATIONS.

STALL TAPERED SADDLES, CRICKETS, AND EDGE STRIPS AS SHOWN OR SPECIFIED. STALL TAPERED EDGE STRIPS.

STALL COVER BOARD AND MEANS OF ATTACHMENT PER DRAWINGS AND SPECIFICATIONS.

PE ROOFING MEMBRANE AND FLASHINGS

STALL ADHERED, REINFORCED PVC SINGLE-PLY MEMBRANE SYSTEM.

STALL PVC FLASHINGS AT ALL PERIMETERS AND PENETRATIONS.

STALL ADHERED, REINFORCED KEE SINGLE-PLY MEMBRANE SYSTEM.

STALL KEE FLASHINGS AT ALL PERIMETERS AND PENETRATIONS.

STALL WALKWAYS AS SHOWN ON DRAWINGS. INCLUDE THIS WORK IN THE BID. INSTALL ANY ADDITIONAL CATIONS OF WALKWAYS AS DIRECTED BY THE OWNER'S REPRESENTATIVE ON A UNIT PRICE BASIS.

1.14

1.15

1.16

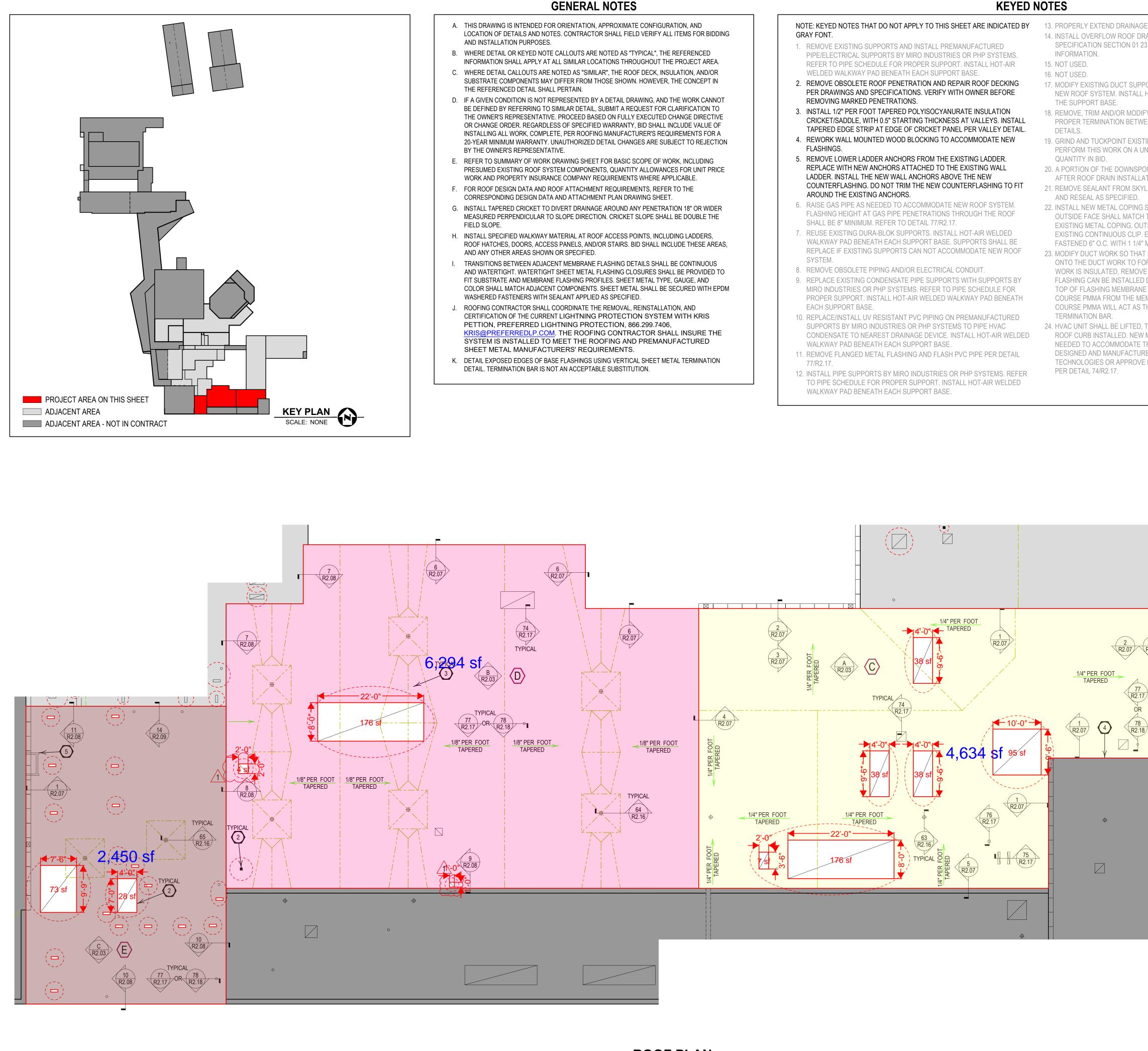
1.17

1.18

1.19

	DRAWING	RECORD
	REV. NO. DESCRIPTION	N DATE BY
	NA BID SET 1 ADDENDUM NO. 1	02/06/24 TH/JH 02/16/24 TH/JH
ROOF-RELATED SHEET METAL		
A. INSTALL ROOF-RELATED SHEET METAL COMPONENTS AS PER DRAWINGS AND SPECIFICATIONS.		
B. REUSE EXISTING SHEET METAL WHERE SPECIFICALLY NOTED AS SUCH ON THE DETAIL DRAWINGS.		
C. PROVIDE ALL NECESSARY SEALANT PRIMERS, SEALANTS, FASTENERS AND OTHER SPECIFIED COMPONENTS TO ENSURE A WATERTIGHT INSTALLATION.		
D. INSTALL PREMANUFACTURED SHEET METAL COMPONENTS AND RELATED ACCESSORIES AS PER DRAWINGS AND SPECIFICATIONS.		
E. INSTALL MEMBRANE CLAD METAL FLASHINGS, FASTENERS, ALUMINUM TAPE, AND HEAT WELDED MEMBRANE STRIP		
FLASHINGS PER THE DRAWINGS AND SPECIFICATIONS.		
PLUMBING WORK A. FREE ANY CLOGGED DRAINS OR DRAIN PIPING.		
B. INSTALL PIPING EXTENSIONS AS REQUIRED TO RAISE CURBS AND SOIL PIPES.		
C. INSTALL STATIC DRAIN EXTENSIONS AS NOTED IN THE DRAIN DETAILS.		
D. REPLACE ALL MISSING, DAMAGED, PLASTIC, OR IMPROPERLY FIT DRAIN STRAINERS, AND/OR CLAMPING RINGS. ALL REPLACEMENT DRAIN STRAINERS SHALL BE CAST IRON STRAINERS AND SHALL FIT WITH CLAMPING RINGS. ALL DEPLACEMENT OF AMPINO DIVISION AND SUALL DROPERLY FIT WITH CLAMPING RINGS. ALL		
REPLACEMENT CLAMPING RINGS SHALL BE CAST IRON AND SHALL PROPERLY FIT WITH EXISTING DRAIN BOWLS. E. INSTALL REPLACEMENT DRAIN BOLTS. REMOVE ANY BROKEN BOLTS FROM DRAIN CASTINGS, AND PREPARE EXISTING		
BOLT SOCKETS BY RE-TAPPING, WHERE REQUIRED.		
 F. CLEAN, PRIME, AND PAINT DRAIN RINGS AND DRAIN STRAINERS, AS FOLLOWS: 1. SURFACE PREPARATION: REMOVE ALL OLD SEALANTS, DEBRIS; AND LOOSE RUST AND LOOSE PAINT USING 		
POWER-ASSISTED HAND TOOLS AND/OR SOLVENTS.		
 PRIMER: APPLY ONE COAT OF SHERWIN WILLIAMS PRO-CRYL UNIVERSAL PRIMER, OR APPROVED EQUAL FINISH COAT: APPLY ONE COAT OF SHERWIN WILLIAMS ZERO VOC ACRYLIC, SEMI-GLOSS, OR APPROVED 		
EQUAL.		
G. INSTALL SPECIFIED OVERFLOW DRAINS AS OUTLINE UNDER SECTION 01 23 00 ALTERNATES AND SECTION 22 14 14 ROOF DRAINS AND PLUMBING.		
H. RAISE ALL SOIL PIPES AS REQUIRED TO PROVIDE 8" MINIMUM HEIGHT ABOVE FINISH ROOF ELEVATION.		
I. FUNCTIONAL CLAMPING RING AND DRAIN STRAINER SHALL BE INSTALLED AT EACH DRAIN DURING THE SAME WORKDAY AS MEMBRANE INSTALLATION.		
A. DISCONNECT AND RECONNECT ROOFTOP MECHANICAL UNITS AS REQUIRED FOR LIFTING.B. ROOF TOP MECHANICAL UNITS WITH CURB ADAPTERS SHALL BE LIFTED AS REQUIRED TO EXTEND THE ROOF CURBS		
TO A MINIMUM FLASHING HEIGHT OF 8".		
C. DISCONNECT DUCTWORK AS NECESSARY FOR LIFTING UNITS.D. EXTEND DUCTS AS REQUIRED FOR RAISING CURBS TO FINISHED ELEVATIONS.		
E. RECONNECT DUCTWORK AS REQUIRED FOR PROPER OPERATION.		
F. RAISE EXISTING GAS LINES, IF REQUIRED FOR PROPER INSTALLATION OF ROOF SYSTEM.		
ELECTRICAL WORK A. DISCONNECT AND RECONNECT ROOFTOP MECHANICAL UNITS AS REQUIRED FOR LIFTING.		
B. RAISE EXISTING ELECTRICAL CONDUITS, IF REQUIRED FOR PROPER INSTALLATION OF ROOF SYSTEM AND SUPPORTS.		
C. REMOVE AND REINSTALL THE EXISTING LIGHTNING PROTECTION SYSTEM, AS REQUIRED, FOR PERFORMANCE OF THE SPECIFIED WORK.		
D. UNFASTEN AND REATTACH CONDUITS FOR PROPER INSTALLATION OF THE ROOFING SYSTEM.		
SUPPORT SYSTEMS		
A. INSTALL NON-PENETRATING SUPPORT SYSTEMS AT ROOFTOP PIPING AND CONDUITS AS SPECIFIED. QUANTITY ALLOWANCES		
A. THE BID AND CONTRACT PRICE SHALL INCLUDE THE FOLLOWING STIPULATED QUANTITY ALLOWANCES, TO BE		
ADJUSTED BY THE ESTABLISHED UNIT PRICES. REFER TO DIVISION 00 AND 01 SPECIFICATIONS FOR UNIT PRICE DESCRIPTIONS AND RELATED REQUIREMENTS.		
ABBREVIATED DESCRIPTION Q.A. U.O.M. ROOF SECTION		
REPLACE LUMBER/NAILER 400 BD. FT. ALL		
TUCKPOINT MASONRY 700 SQ. FT. I4 INSTALL ROOF SYSTEM WALKWAY 300 LN. FT. ALL		
REPLACE STEEL DECKING200SQ. FT.C, G, M, N, N1, O, Q1, R, U & V		
PAINT SURFACE RUSTED STEEL DECKING 400 SQ. FT. C, G, M, N, N1, O, Q1, R, U & V		
REPLACE WOOD PLANK DECKING300SQ. FT.E, I1, I3 & JREPLACE ROOF DRAIN CLAMPING RING4EA.ALL		01.dwg
B. DECK REPLACEMENT AT REMOVED OBSOLETE PENETRATIONS SHALL BE INCLUDED IN THE BID INDEPENDENT OF THE		010B0C
LISTED QUANTITY ALLOWANCES FOR DECK REPLACEMENT. C. MISCELLANEOUS WALKWAY APPLICATIONS SHOWN ON THE ROOF PLAN OR DETAIL DRAWINGS SHALL BE INCLUDED IN		24 TILAND STON STON SLESUF
THE BID INDEPENDENT OF THE LISTED QUANTITY ALLOWANCE FOR WALKWAY INSTALLATION.		02/06/ J. HAT J. HAO J. HAO T. BOS 23LSS
D. THE VALUE WITHIN THE CONTRACT ASSOCIATED WITH EACH ALLOWANCE ITEM SHALL BE SEPARATELY LISTED ON THE SCHEDULE OF VALUES SUBMITTED WITH EACH APPLICATION FOR PAYMENT. REFER TO DIVISION 01		N BY: CCT CCT CCT CCD BY CCD BY MARRK NG NO:
		DATE: DRAM PROACE MANACE DRAFT DRAFT SENIO DRAM
A. THE BID AND CONTRACT PRICE SHALL INCLUDE THE FOLLOWING STIPULATED QUANTITY ALLOWANCES, TO BE		
ADJUSTED BY THE ESTABLISHED UNIT PRICES. REFER TO DIVISION 00 AND 01 SPECIFICATIONS FOR UNIT PRICE	I II.	
1. CONTINGENCY FUND TO BE USED FOR UNFORESEEN CHANGES \$120,000.00		
B. THE VALUE WITHIN THE CONTRACT ASSOCIATED WITH EACH ALLOWANCE ITEM SHALL BE SEPARATELY LISTED ON THE SCHEDULE OF VALUES SUBMITTED WITH EACH APPLICATION FOR PAYMENT. REFER TO DIVISION 01	1 11 1	
ADMINISTRATIVE INSTRUCTIONS FOR FURTHER INFORMATION.		R
A. THE OWNER IS NOT FM GLOBAL INSURED; HOWEVER, CERTAIN COMPONENTS SUCH AS VHS HAIL REQUIREMENTS		ທ I
AND FM APPROVED PREMANUFACTURED SHEET METAL COMPONENTS HAVE BEEN SPECIFIED.		
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	Connor RAPIDS, IA • WAUKESHA Phone: 319.393.9100 www.benchmark-inc.com	E'S SUMMIT SUMMIT HIGH SCHOOL (SE BLUE PARKWAY S SUMMIT, MO 64063 TTLE. MMARY OF WORK
	SS, IA ⇒nchr	
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		ICHMARK PROJECT NO.: LSSLESUR010B
		ET NUMBER:
		R0.02
	0	ORIGINAL SHEET SIZE: 36 x 24

 $\overline{}$ 1.20



GENERAL NOTES



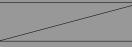
				REV. NO.	DE	SCRIPTION	DATE	BY
RAIN AS SPEC	LASH PER DETAIL 77/R2.17. IFIED. REFER TO ATES FOR ADDITIONAL			NA 1	BID SET ADDENDUM NO. 1		02/06/24	
	DED TO ACCOMMODATE THE DED WALKWAY PAD BENEATH							
	LL PANEL TO CREATE A FERENT WALL FLASHING							
	RY WALL AS SPECIFIED. SIS. INCLUDE ALLOWANCE				SVM	BOL LEG		
ATION.	E REMOVED AND REINSTALLED ASONRY WALL. CLEAN, PRIME				———— P/	ARAPET WALL		
H THE EXISTIN JTSIDE FACE S . ENSURE EXIS " MINIMUM RIN T MEMBRANE ORM A WATER /E THE INSULA D DIRECTLY TO IE IN WATER M EMBRANE TO	DETAIL 56/R2.16 EXCEPT THE G FACE DIMENSION OF THE SHALL BE CLIPPED TO THE STING CONTINUOUS CLIP IS IG SHANK NAILS. FLASHING CAN BE INSTALLED RTIGHT SEAL. IF THE DUCT TION SO THAT THE MEMBRANE D THE METAL DUCT WORK. SET IASTIC AND SEAL WITH A 3 THE METAL DUCT WORK. THE 3 TION INSTEAD OF A				W G G R ↓ SC ∞ D ↓ ■ P ↓ ○ P ↓ 0 □ FL ↓ 0 R	ALL EXPANSION A JTTER DOF OUTLINE BEI CUPPER DWNSPOUT TCH PAN PE PENETRATION ANGED PENETRATION	LOW OVERHANC N ATION	5
, THE EXISTING V METAL DECK THE NEW ROC RED BY CDI CU	S CURB REMOVED AND A NEW ING SHALL BE INSTALLED AS DF CURB. ROOF CURB SHALL BE JRBS, AES INDUSTRIES, CURB T. CURB SHALL BE FLASHED					VERFLOW DRAIN DOF CURB LEVATED UNIT/EQ DOF HATCH BSOLETE PENETF ALL CURB LEEPER ADDER DOR FAIRS/PLATFORM JPPORT LEGS PING ON SUPPOF RICKET/SADDLE DGE/VALLEY LINI LOPE DIRECTION ETAIL LOCATION (STEM ASSEMBL) EYED NOTE LOCA EVISION NUMBER DJACENT AREA	QUIPMENT RATION RTS E Y DETAIL LOCAT	
-	Wood Pla	nk		╞	AI	DJACENT AREA -		
3 R2.07	Pour Gyp Form Boa						TE: 02/06/24 AWN BY: T. HATLAND MAGER J. HACKMAN	AFTER: I. BUSTUN EXERD BY L. STEIN NOHMARK: 23LSSLESUR010B002.dwg
8	Steel					ICT	DAT DRA MARK	DRA CHE SEN BEN DRA
				Lanch	CEDAR RAPIDS, IA • WAUKESHA, WI Phone: 319.393.9100 www.benchmark-inc.com	BENCHMAR 23LSSLE	K PROJECT NC ESUR010B IBER:	ROOF PLAN - BUILDING A - SECTIONS C, D, & E
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DRAWING RECORD

ORIGINAL SHEET SIZE: 36 x 24

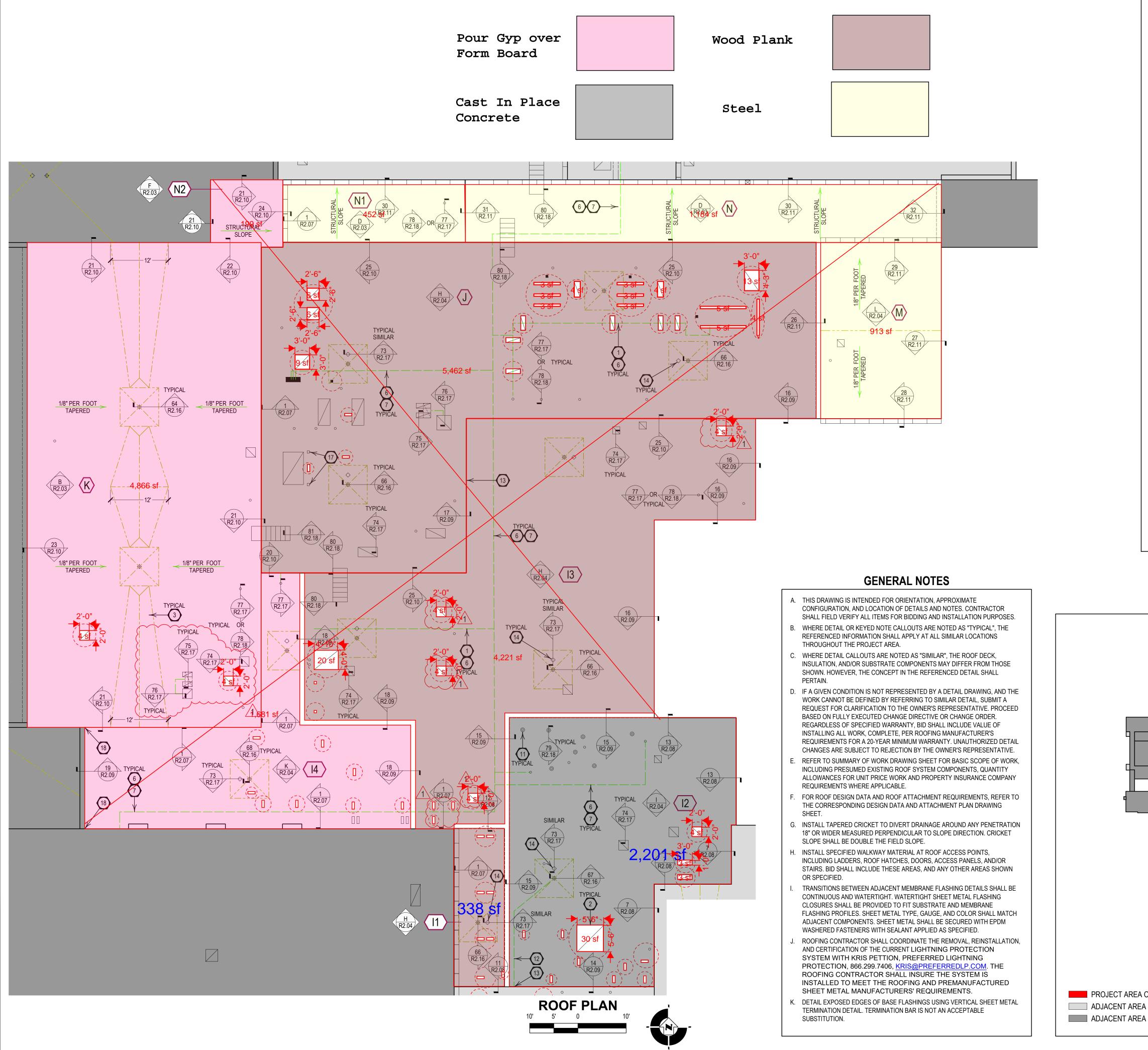


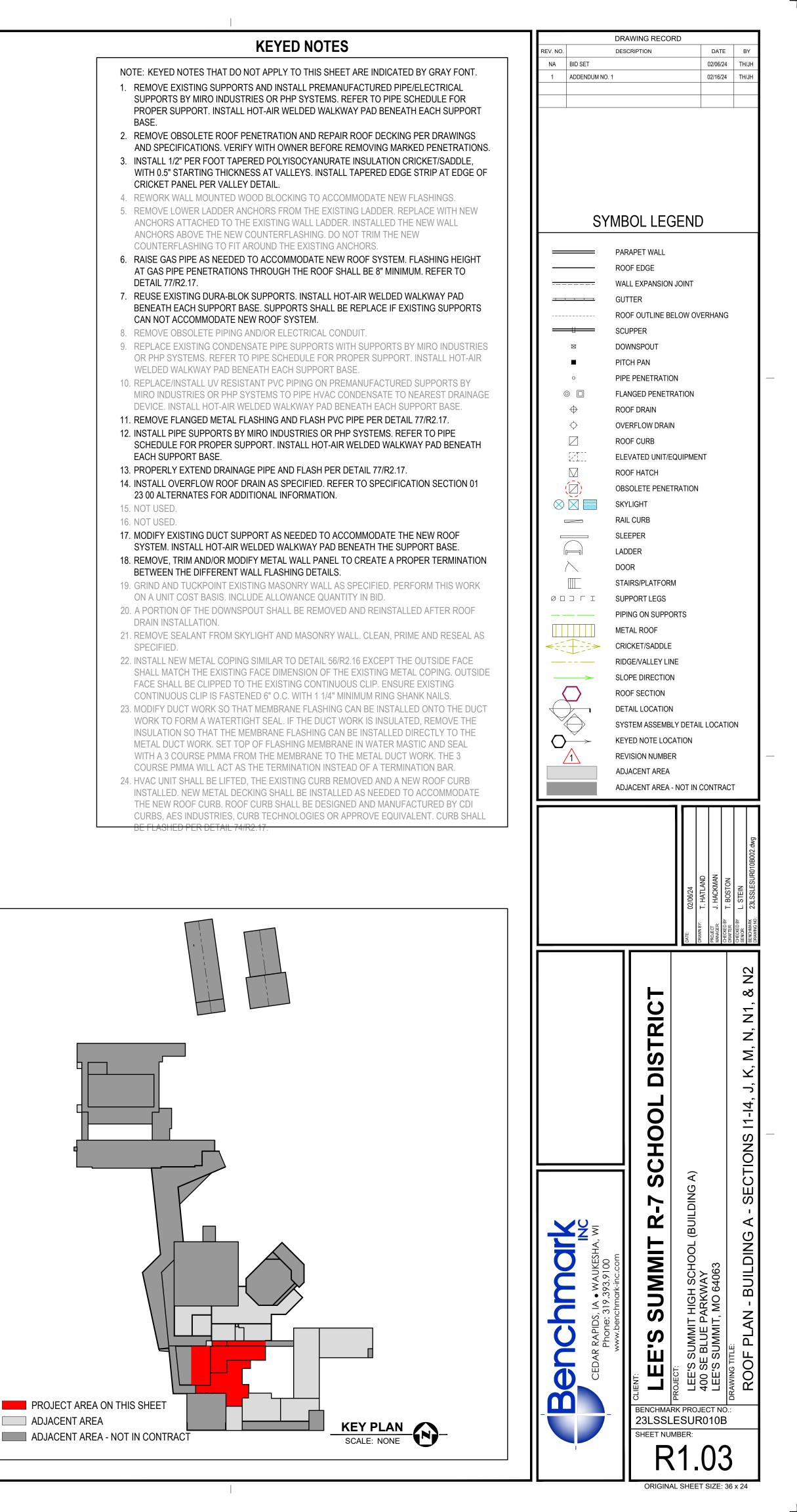


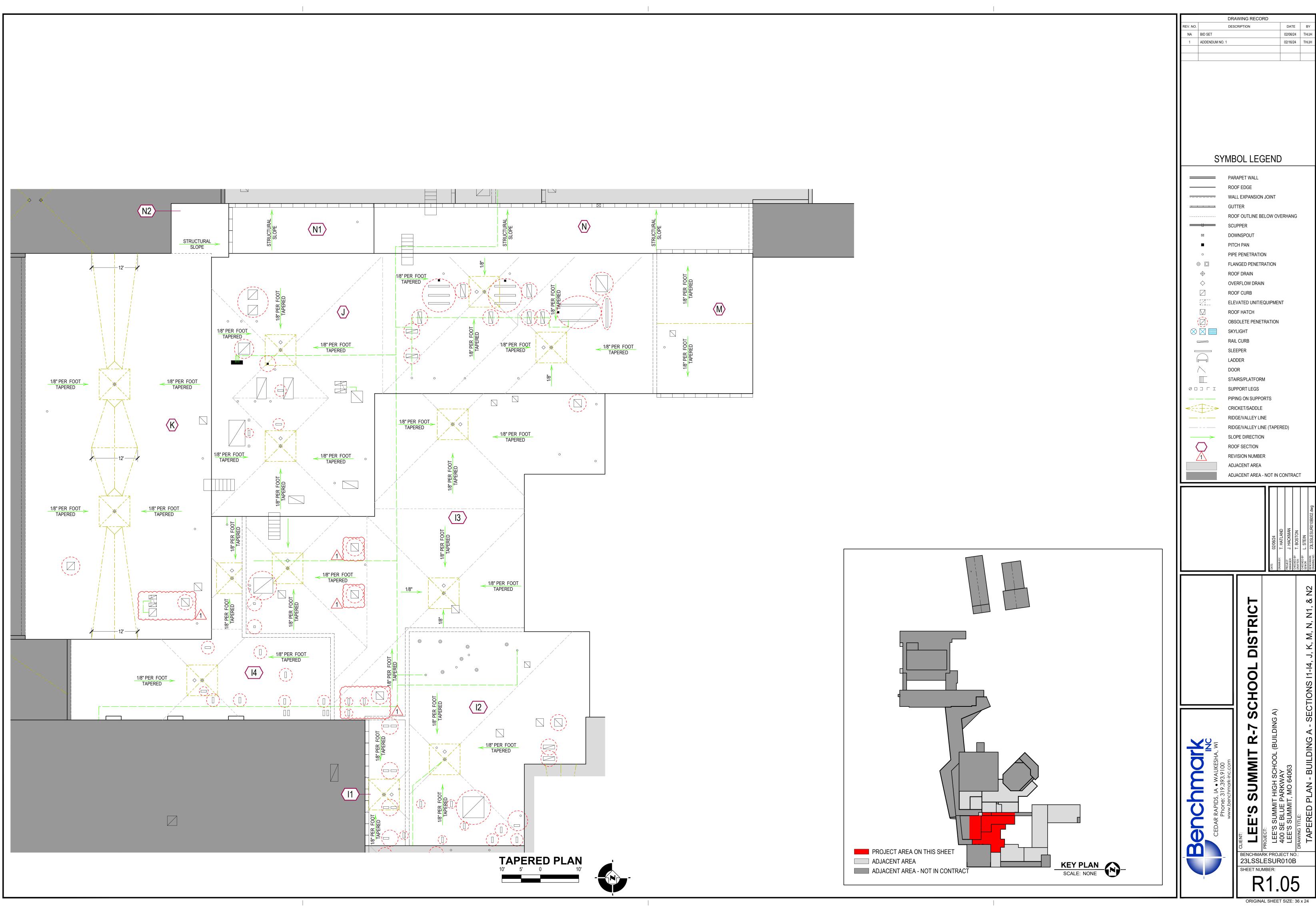


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	CEDAR RAPIDS, IA • WAUKESHA, WI Phone: 319.393.9100	www.derichindik-Inc.com	CLIENT CLIENT CLEAT CLIENT CLI	E:	PRC SU	JEC				
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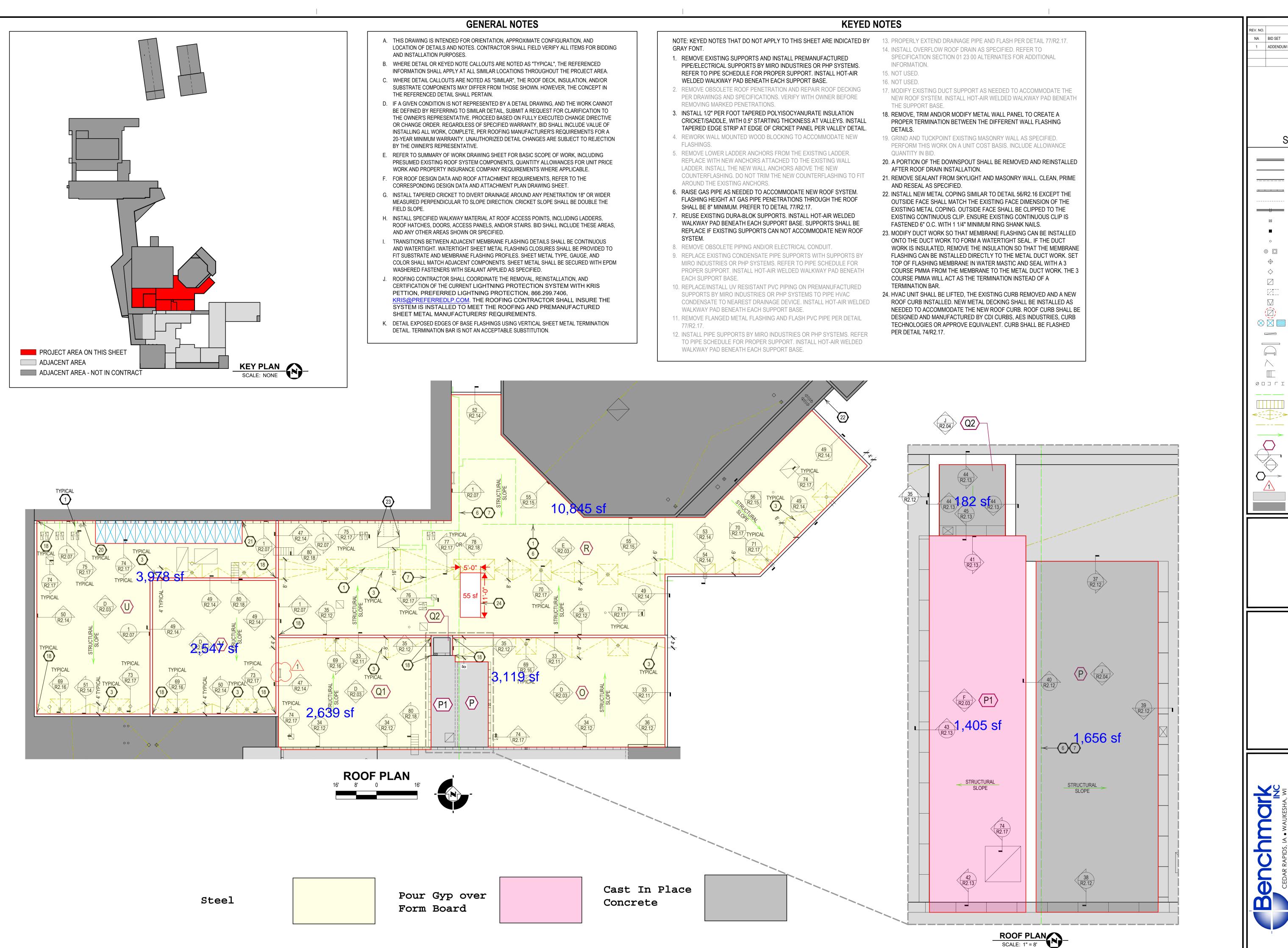
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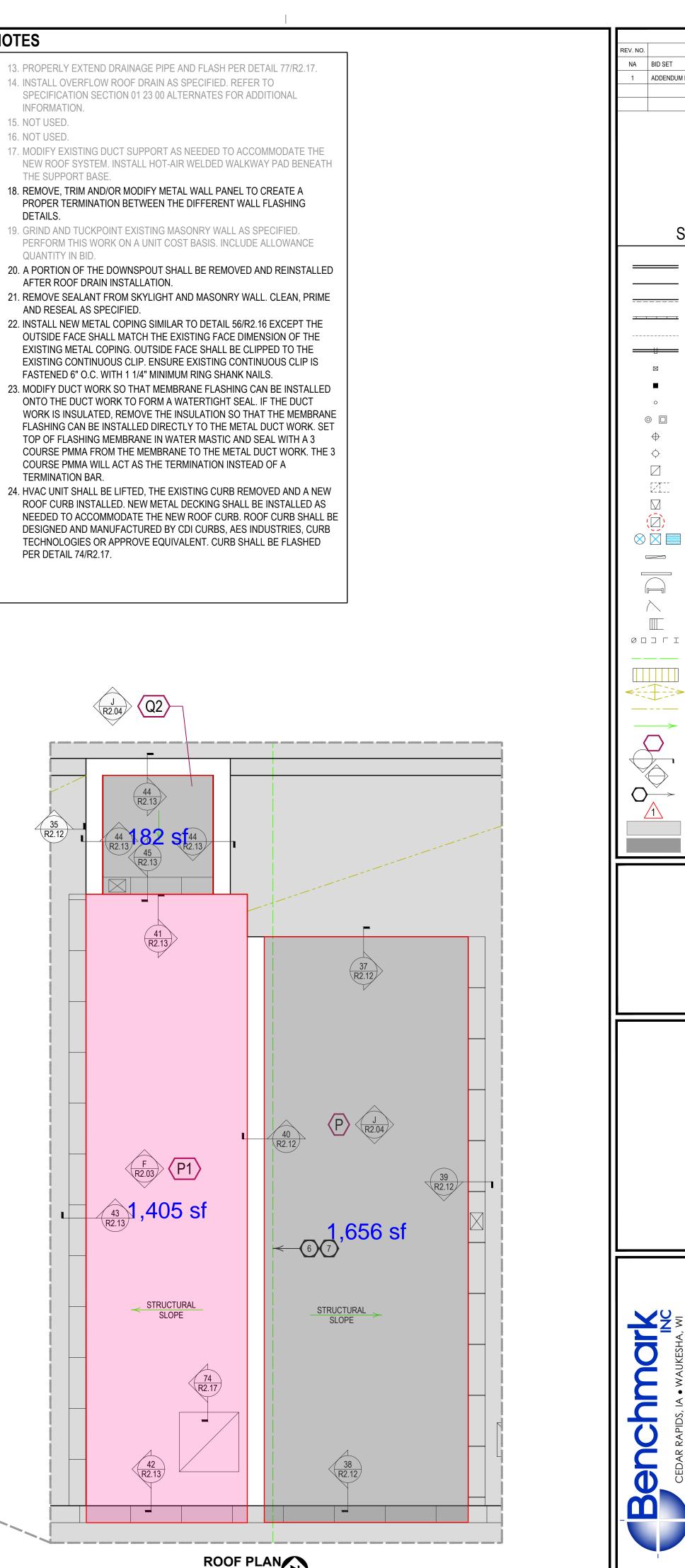






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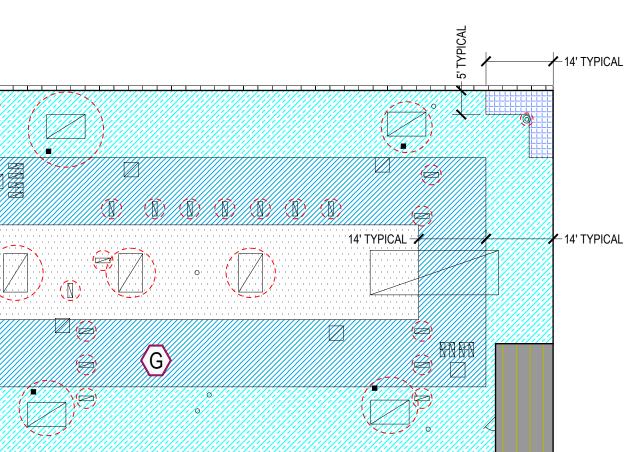
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Vanch	CEDAR RAPIDS, IA • WAUKESHA, WI Phone: 319.393.9100	~~~~	Ľ.	LEE'S SUMMIT R-7	CT:	LEE'S SUMMIT HIGH SCHOOL (BUILDING A)	400 SE BLUE PARKWAY	EE'S SUMMIT, MO 64063	DRAWING TITI F		RUUF PLAN - BUILDING A - SECTIONS 0, P, P1, Q1, Q2, R, U, & V
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ORIGINAL SHEET SIZE: 36 x 24



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ATTACHMENT ZONES							
SECTION	ZONE 1'	ZONE 1	ZONE 2	ZONE 3			
C, D, E, G, H, I2, I3, K, O, & R	AS SHOWN	AS DIMENSIONED	AS DIMENSIONED	AS DIMENSIONED			
J & M	NOT USED	AS SHOWN	AS DIMENSIONED	AS DIMENSIONED			
N & N1	NOT USED	NOT USED	AS DIMENSIONED	AS DIMENSIONED			
N2 & Q2	NOT USED	NOT USED	AS DIMENSIONED	AS DIMENSIONED			
I1, I4, P, P1, Q1, U, & V	AS SHOWN	NOT USED	NOT USED	NOT USED			



REV. NO. NA 1	BID SET ADDENDUM NO	DESC			DATE 02/06/24 02/16/24	
	SY	PAR ROC WAL	APET WALL OF EDGE LL EXPANSION		<u>ח</u>	
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	。 ● □ ← ○ □ 	FLAI ROC OVE ROC	NGED PENETI DF DRAIN RFLOW DRAII DF CURB	RATION N	- 1 -	
\otimes		ROC OBS SKY RAIL	VATED UNIT/E OF HATCH SOLETE PENE ⁻ LIGHT _ CURB			
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	CEDAR RAPIDS, IA • WAUKESHA, WI Phone: 319 393 9100	www.benchmark-inc.com	LEE'S SUMMIT R-7	OJECT: LEE'S SUMMIT HIGH SCHOOL (BUILDING A)	400 SE BLUE PARKWAY LEE'S SUMMIT, MO 64063	RAWING TITLE:
	CEDAR	-	ට් BENCHMA	K PRC	JECT NO.	ď
			23LSSL SHEET NU		^{R010B}	,

1.01	GENERAL	NOTES

- A. THIS SHEET IS INTENDED TO COMMUNICATE BUILDING CODE INFORMATION, DESIGN STANDARDS, DESIGN DATA, AND ROOF SYSTEM ATTACHMENT REQUIREMENTS.
- B. THE INFORMATION ON THIS SHEET IS INTENDED FOR COMMUNICATION OF ATTACHMENT ZONES ONLY. REFER TO CORRESPONDING ROOF PLAN(S) ON SEPARATE SHEET(S) FOR INFORMATION NOT NOTED.
- C. REFER TO DETAIL SAD (SCHEDULE OF ATTACHMENT DETAILS) ON SHEET R2.01 ATTACHMENT DETAILS, WHICH DEFINES THE
- ATTACHMENT DETAILS THAT ARE REQUIRED FOR EACH ROOF SECTION. D. REFER TO ATTACHMENT ZONE TABLE(S) ON THIS SHEET, WHICH DEFINE THE ZONES AND ZONE HATCHING STYLES APPLICABLE TO EACH ROOF SECTION.

1.02 PROJECT REQUIREMENTS

A.

	ALGOINEMENTS									
THE	THE COMPLETED ROOF SYSTEM SHALL MEET THE FOLLOWING REQUIREMENTS AT A MINIMUM:									
1.	ALL ROOF SECTIONS:									
	BUILDING CODE:	2018 INTERNATIONAL BUILDING CODE								
	ENERGY CODE:	CODE OF ORDINANCES, CITY OF LEE'S SUMMIT. ARTICLE VIII - ENERGY CONSERVATION CODE, SECTION 7-803								

1.03 ROOF SECTION SPECIFIC REQUIREMENTS

WIND DESIGN STANDARD: ASCE 7-16

A. THE COMPLETED ROOF SYSTEM SHALL MEET THE FOLLOWING DESIGN WIND LOAD PRESSURES:

ROOF SECTIONS	ZONE 1'	ZONE 1	ZONE 2	ZONE
С	-31.11	-54.16	-71.44	-97.37
D	-31.11	-54.16	-71.44	-97.37
E	-31.54	-54.90	-72.42	-98.70
G	-34.35	-59.79	-78.87	-107.4
Н	-34.35	-59.79	-78.87	-107.4
I1	-31.11	-54.16	-71.44	-97.37
12	-31.11	-54.16	-71.44	-97.37
13	-41.77	-64.82	-82.10	-108.0
14	-31.11	-54.16	-71.44	-97.37
J	-31.54	-54.90	-72.42	-98.70
K	-33.40	-58.13	-76.69	-104.5
М	-31.54	-54.90	-72.42	-98.70
N	-31.54	-54.90	-72.42	-98.70
N1	-31.54	-54.90	-72.42	-98.70
N2	-33.40	-58.13	-76.69	-104.5
0	-31.11	-54.16	-71.44	-97.37
Р	-31.11	-54.16	-71.44	-97.37
P1	-31.11	-54.16	-71.44	-97.37
Q1	-31.54	-54.90	-72.42	-98.70
Q2	-32.33	-56.28	-74.24	-101.1
R	-31.11	-54.16	-71.44	-97.37
U	-31.11	-54.16	-71.44	-97.37
V	-31.11	-54.16	-71.44	-97.37

B. THE INSTALLED COPINGS AND EDGE METAL SHALL COMPLY WITH ANSI/SPRI/FM 4470/ES-1 STANDARDS AND SHALL MEET THE FOLLOWING DESIGN WIND PRESSURES:

THE FOLLOWING L	DESIGN WI	ND PRESSURES:
ROOF SECTIONS	ALL SECTI	ONS
ZONE 2 HORIZO	NTAL	44 PSF
ZONE 3 HORIZO	NTAL	55 PSF
ZONE 2 VERTICA	4L	76 PSF
ZONE 3 VERTICA	4L	115 PSF

C. THE ROOF SYSTEM SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ASTM E108 AND SHALL HAVE ACHIEVED THE FOLLOWING EXTERIOR FIRE RATING OR BETTER:

1. ROOF SECTIONS ALL ROOF SECTIONS UL CLASS A

1.04 PROJECT DESIGN DATA

1.

 110	DECT DECICIN DATA	
Α.	WIND DESIGN DATA:	

А.	WIND DESIGN DATA:	
	BASIC DESIGN WIND SPEED (V):	115 MPH
	ALLOWABLE STRESS DESIGN WIND SPEED (Vasd):	89 MPH
	SAFETY FACTOR:	2.0
В.	ROOF DRAINAGE:	
	RAIN INTENSITY (i):	3.52 INCHES/HOUR
	MODIFICATIONS TO DRAINAGE:	NO

MODIFICATIONS TO DRAINAGE: 1.05 ROOF SECTION-SPECIFIC WIND / LOAD DESIGN DATA

<u>NOTE:</u> ROOF HEIGHT INFORMATION FURNISHED SHALL NOT BE USED FOR THE PURPOSES OF DETERMINING AND/OR BIDDING CONSTRUCTION LOGISTICS:

	RISK CATEGORY:	11
	EXPOSURE CATEGORY:	C
	INTERNAL PRESSURE COEFFICIENT:	0.18
	MEAN ROOF HEIGHT:	12 FEET
	ROOF SLOPE:	1/8" IN 12"
	APPROXIMATE EXISTING ROOF SYSTEM WEIGHT:	8.58 PSF
	APPROXIMATE NEW ROOF SYSTEM WEIGHT:	4.17 PSF
	APPROXIMATE CHANGE IN ROOF SYSTEM WEIGHT:	51.34 % DECREASE
	APPROXIMATE NET CHANGE IN ROOF SYSTEM WEIGHT:	4.41 PSF DECREASE
5.	LEE'S SUMMIT HIGH SCHOOL BUILDING A - ROOF SECTION D	
	RISK CATEGORY:	II
	EXPOSURE CATEGORY:	C
	INTERNAL PRESSURE COEFFICIENT:	0.18
	MEAN ROOF HEIGHT:	14 FEET
	ROOF SLOPE:	1/8" IN 12"
	APPROXIMATE EXISTING ROOF SYSTEM WEIGHT:	8.29 PSF
	APPROXIMATE NEW ROOF SYSTEM WEIGHT:	4.17 PSF
	APPROXIMATE CHANGE IN ROOF SYSTEM WEIGHT:	49.68 % DECREASE
	APPROXIMATE NET CHANGE IN ROOF SYSTEM WEIGHT:	4.12 PSF DECREASE
).	LEE'S SUMMIT HIGH SCHOOL BUILDING A - ROOF SECTION E	
	RISK CATEGORY:	I
	EXPOSURE CATEGORY:	C
	INTERNAL PRESSURE COEFFICIENT:	0.18
	MEAN ROOF HEIGHT:	16 FEET
	ROOF SLOPE:	1/8" IN 12"
	APPROXIMATE EXISTING ROOF SYSTEM WEIGHT:	7.76 PSF
	APPROXIMATE NEW ROOF SYSTEM WEIGHT:	4.17 PSF
	APPROXIMATE CHANGE IN ROOF SYSTEM WEIGHT:	46.19 % DECREASE
	APPROXIMATE NET CHANGE IN ROOF SYSTEM WEIGHT:	3.59 PSF DECREASE
).	LEE'S SUMMIT HIGH SCHOOL BUILDING A - ROOF SECTION G	
	RISK CATEGORY:	I
	EXPOSURE CATEGORY:	С
	INTERNAL PRESSURE COEFFICIENT:	0.18
	MEAN ROOF HEIGHT:	24 FEET

	1/8" IN 12"	MEAN DOOF HEICHT	
ROOF SLOPE: APPROXIMATE EXISTING ROOF SYSTEM WEIGHT:	1/8" IN 12" 7.74 PSF	MEAN ROOF HEIGHT: ROOF SLOPE:	15 FEET 1/8" IN 12"
APPROXIMATE EXISTING ROOF SYSTEM WEIGHT: APPROXIMATE NEW ROOF SYSTEM WEIGHT:	4.17 PSF	APPROXIMATE EXISTING ROOF SYSTEM WEIGHT:	8.00 PSF
APPROXIMATE CHANGE IN ROOF SYSTEM WEIGHT:	46.05 % DECREASE	APPROXIMATE NEW ROOF SYSTEM WEIGHT:	4.17 PSF
APPROXIMATE NET CHANGE IN ROOF SYSTEM WEIGHT:	3.57 PSF DECREASE	APPROXIMATE CHANGE IN ROOF SYSTEM WEIGHT:	47.87 % DECREASE
LEE'S SUMMIT HIGH SCHOOL BUILDING A - ROOF SECTION H		APPROXIMATE NET CHANGE IN ROOF SYSTEM WEIGHT:	3.83 PSF DECREASE
RISK CATEGORY:	II	O. LEE'S SUMMIT HIGH SCHOOL BUILDING A - ROOF SECTIONS O AN	ND P
EXPOSURE CATEGORY:	С	RISK CATEGORY:	I
INTERNAL PRESSURE COEFFICIENT:	0.18	EXPOSURE CATEGORY:	С
MEAN ROOF HEIGHT:	24 FEET	INTERNAL PRESSURE COEFFICIENT:	0.18
ROOF SLOPE:	1/8" IN 12"	MEAN ROOF HEIGHT:	
			14 FEET
APPROXIMATE EXISTING ROOF SYSTEM WEIGHT:	6.85 PSF	ROOF SLOPE:	1/8" IN 12"
APPROXIMATE NEW ROOF SYSTEM WEIGHT:	4.17 PSF	APPROXIMATE EXISTING ROOF SYSTEM WEIGHT:	7.74 PSF
APPROXIMATE CHANGE IN ROOF SYSTEM WEIGHT:	39.08 % DECREASE	APPROXIMATE NEW ROOF SYSTEM WEIGHT:	4.17 PSF
APPROXIMATE NET CHANGE IN ROOF SYSTEM WEIGHT:	2.68 PSF DECREASE	APPROXIMATE CHANGE IN ROOF SYSTEM WEIGHT:	46.05 % DECREASE
LEE'S SUMMIT HIGH SCHOOL BUILDING A - ROOF SECTION I		APPROXIMATE NET CHANGE IN ROOF SYSTEM WEIGHT:	3.57 PSF DECREASE
RISK CATEGORY:	II	P. LEE'S SUMMIT HIGH SCHOOL BUILDING A - ROOF SECTION P1	
		RISK CATEGORY:	
	C		
INTERNAL PRESSURE COEFFICIENT:	0.18	EXPOSURE CATEGORY:	C
MEAN ROOF HEIGHT:	13 FEET	INTERNAL PRESSURE COEFFICIENT:	0.18
ROOF SLOPE:	1/8" IN 12"	MEAN ROOF HEIGHT:	14 FEET
APPROXIMATE EXISTING ROOF SYSTEM WEIGHT:	7.76 PSF	ROOF SLOPE:	1/8" IN 12"
APPROXIMATE NEW ROOF SYSTEM WEIGHT:	4.17 PSF	APPROXIMATE EXISTING ROOF SYSTEM WEIGHT:	8.00 PSF
APPROXIMATE CHANGE IN ROOF SYSTEM WEIGHT:	46.19 % DECREASE	APPROXIMATE NEW ROOF SYSTEM WEIGHT:	4.17 PSF
APPROXIMATE NET CHANGE IN ROOF SYSTEM WEIGHT:	3.59 PSF DECREASE	APPROXIMATE CHANGE IN ROOF SYSTEM WEIGHT:	47.87 % DECREASE
		APPROXIMATE NET CHANGE IN ROOF SYSTEM WEIGHT:	3.83 PSF DECREASE
LEE'S SUMMIT HIGH SCHOOL BUILDING A - ROOF SECTION 12			S.SUT OF DEGREASE
RISK CATEGORY:		Q. LEE'S SUMMIT HIGH SCHOOL BUILDING A - ROOF SECTION Q2	
EXPOSURE CATEGORY:	C	RISK CATEGORY:	II
INTERNAL PRESSURE COEFFICIENT:	0.18	EXPOSURE CATEGORY:	C
MEAN ROOF HEIGHT:	13 FEET	INTERNAL PRESSURE COEFFICIENT:	0.18
ROOF SLOPE:	1/8" IN 12"	MEAN ROOF HEIGHT:	18 FEET
APPROXIMATE EXISTING ROOF SYSTEM WEIGHT:	7.74 PSF	ROOF SLOPE:	1/8" IN 12"
APPROXIMATE NEW ROOF SYSTEM WEIGHT:	4.17 PSF	APPROXIMATE EXISTING ROOF SYSTEM WEIGHT:	7.74 PSF
APPROXIMATE CHANGE IN ROOF SYSTEM WEIGHT:	46.05 % DECREASE	APPROXIMATE NEW ROOF SYSTEM WEIGHT:	4.17 PSF
APPROXIMATE CHANGE IN ROOF STSTEM WEIGHT:	3.57 PSF DECREASE	APPROXIMATE NEW ROOF STSTEM WEIGHT. APPROXIMATE CHANGE IN ROOF SYSTEM WEIGHT:	4.17 PSP 46.05 % DECREASE
LEE'S SUMMIT HIGH SCHOOL BUILDING A - ROOF SECTION 13	l	APPROXIMATE NET CHANGE IN ROOF SYSTEM WEIGHT:	3.57 PSF DECREASE
RISK CATEGORY:	Ш	R. LEE'S SUMMIT HIGH SCHOOL BUILDING A - ROOF SECTION R	
EXPOSURE CATEGORY:	С	RISK CATEGORY:	II
INTERNAL PRESSURE COEFFICIENT:	0.18	EXPOSURE CATEGORY:	С
MEAN ROOF HEIGHT:	13 FEET	INTERNAL PRESSURE COEFFICIENT:	0.18
ROOF SLOPE:	1/8" IN 12"	MEAN ROOF HEIGHT:	12 FEET
APPROXIMATE EXISTING ROOF SYSTEM WEIGHT:	7.39 PSF	ROOF SLOPE:	1/8" IN 12"
APPROXIMATE NEW ROOF SYSTEM WEIGHT:	4.17 PSF	APPROXIMATE EXISTING ROOF SYSTEM WEIGHT:	7.74 PSF
APPROXIMATE CHANGE IN ROOF SYSTEM WEIGHT:	43.56 % DECREASE	APPROXIMATE NEW ROOF SYSTEM WEIGHT:	4.17 PSF
APPROXIMATE NET CHANGE IN ROOF SYSTEM WEIGHT:	3.22 PSF DECREASE	APPROXIMATE CHANGE IN ROOF SYSTEM WEIGHT:	46.05 % DECREASE
LEE'S SUMMIT HIGH SCHOOL BUILDING A - ROOF SECTION 14		APPROXIMATE NET CHANGE IN ROOF SYSTEM WEIGHT:	3.57 PSF DECREASE
RISK CATEGORY:		S. LEE'S SUMMIT HIGH SCHOOL BUILDING A - ROOF SECTION U	
EXPOSURE CATEGORY:	C	RISK CATEGORY:	
INTERNAL PRESSURE COEFFICIENT:	0.18	EXPOSURE CATEGORY:	C
MEAN ROOF HEIGHT:	13 FEET	INTERNAL PRESSURE COEFFICIENT:	0.18
	13 FEET 1/8" IN 12"	INTERNAL PRESSURE COEFFICIENT: MEAN ROOF HEIGHT:	0.18 6 FEET
MEAN ROOF HEIGHT:			
MEAN ROOF HEIGHT: ROOF SLOPE:	1/8" IN 12"	MEAN ROOF HEIGHT:	6 FEET
MEAN ROOF HEIGHT: ROOF SLOPE: APPROXIMATE EXISTING ROOF SYSTEM WEIGHT:	1/8" IN 12" 7.64 PSF	MEAN ROOF HEIGHT: ROOF SLOPE:	6 FEET 1/8" IN 12"
MEAN ROOF HEIGHT: ROOF SLOPE: APPROXIMATE EXISTING ROOF SYSTEM WEIGHT: APPROXIMATE NEW ROOF SYSTEM WEIGHT: APPROXIMATE CHANGE IN ROOF SYSTEM WEIGHT:	1/8" IN 12" 7.64 PSF 4.17 PSF 45.41 % DECREASE	MEAN ROOF HEIGHT: ROOF SLOPE: APPROXIMATE EXISTING ROOF SYSTEM WEIGHT: APPROXIMATE NEW ROOF SYSTEM WEIGHT:	6 FEET 1/8" IN 12" 10.08 PSF 4.17 PSF
MEAN ROOF HEIGHT: ROOF SLOPE: APPROXIMATE EXISTING ROOF SYSTEM WEIGHT: APPROXIMATE NEW ROOF SYSTEM WEIGHT: APPROXIMATE CHANGE IN ROOF SYSTEM WEIGHT: APPROXIMATE NET CHANGE IN ROOF SYSTEM WEIGHT:	1/8" IN 12" 7.64 PSF 4.17 PSF	MEAN ROOF HEIGHT: ROOF SLOPE: APPROXIMATE EXISTING ROOF SYSTEM WEIGHT: APPROXIMATE NEW ROOF SYSTEM WEIGHT: APPROXIMATE CHANGE IN ROOF SYSTEM WEIGHT:	6 FEET 1/8" IN 12" 10.08 PSF 4.17 PSF 58.61 % DECREASE
MEAN ROOF HEIGHT: ROOF SLOPE: APPROXIMATE EXISTING ROOF SYSTEM WEIGHT: APPROXIMATE NEW ROOF SYSTEM WEIGHT: APPROXIMATE CHANGE IN ROOF SYSTEM WEIGHT: APPROXIMATE NET CHANGE IN ROOF SYSTEM WEIGHT: LEE'S SUMMIT HIGH SCHOOL BUILDING A - ROOF SECTION J	1/8" IN 12" 7.64 PSF 4.17 PSF 45.41 % DECREASE 3.47 PSF DECREASE	MEAN ROOF HEIGHT: ROOF SLOPE: APPROXIMATE EXISTING ROOF SYSTEM WEIGHT: APPROXIMATE NEW ROOF SYSTEM WEIGHT: APPROXIMATE CHANGE IN ROOF SYSTEM WEIGHT: APPROXIMATE NET CHANGE IN ROOF SYSTEM WEIGHT:	6 FEET 1/8" IN 12" 10.08 PSF 4.17 PSF
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- N. LEE'S SUMMIT HIGH SCHOOL BUILDING A ROOF SECTION N1 RISK CATEGORY:
 - EXPOSURE CATEGORY: INTERNAL PRESSURE COEFFICIENT:

II С

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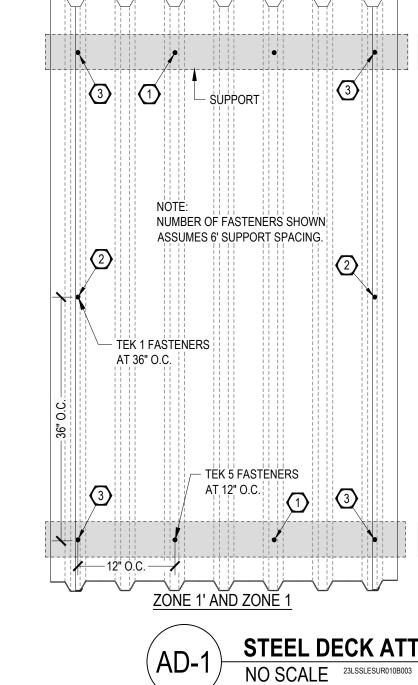
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ATTACHMENT DETAILS REQUIRED FOR EACH ROOF SECTION ARE SCHEDULED BELOW.
 WHERE NA IS REFERENCED, THE SPECIFIED ROOF SYSTEM DOES NOT CONTAIN THE

- LISTED COMPONENT TYPE OR AN ATTACHMENT DETAIL IS NOT PROVIDED. 3. WHERE LL IS REFERENCED, THE COMPONENT IS LOOSELY LAID AND ATTACHMENT IS
- WHERE LL IS REFERENCED, THE COMPONENT IS LOOSELT LAID AND ATTACHMENT IS ACHIEVED BY INSTALLING ANOTHER COMPONENT OVER TOP.
 WHERE ATTACHMENT DETAIL REQUIREMENTS VARY BASED ON ZONE, REFER TO DESIGN
- DATA AND ATTACHMENT PLAN FOR ZONE DEFINITIONS.
 DISREGARD ANY ATTACHMENT INFORMATION ON THIS SHEET PERTAINING TO ZONES NOT
- SPECIFIED ON THE DESIGN DATA AND ATTACHMENT PLAN.
 REFER TO INSULATION SPECIFICATIONS FOR REQUIRED BOARD SIZES. DISREGARD ANY INFORMATION ON THIS SHEET REGARDING BOARD SIZES NOT SPECIFIED.

SCH	IEDULE C	OF ATTAC	HMENT D	ETAILS	
ROOF SECTION	ROOF DECK	INSULATION (BOTTOM)	INSULATION (TOP)	COVER BOARD	FIELD MEMBRANE
C & M	AD-1	LL	AD-3	AD-4	ADHERED
D, I2, I4, & K	NA	AD-4	AD-4	AD-4	ADHERED
E	AD-2	AD-5	NA NA	AD-4	ADHERED
G, N, N1, O, Q1,R, U, & V	AD-1		1 AD-3	AD-4	ADHERED
Н	NA	AD-4	AD-4	AD-4	ADHERED
I1, I3, & J	AD-2	LL (AD-5	AD-4	ADHERED
N2, P, P1, & Q2	NA	AD-4	AD-4	1 AD-4	ADHERED



- STEEL DECK

1 TYPICAL RIB FASTENING

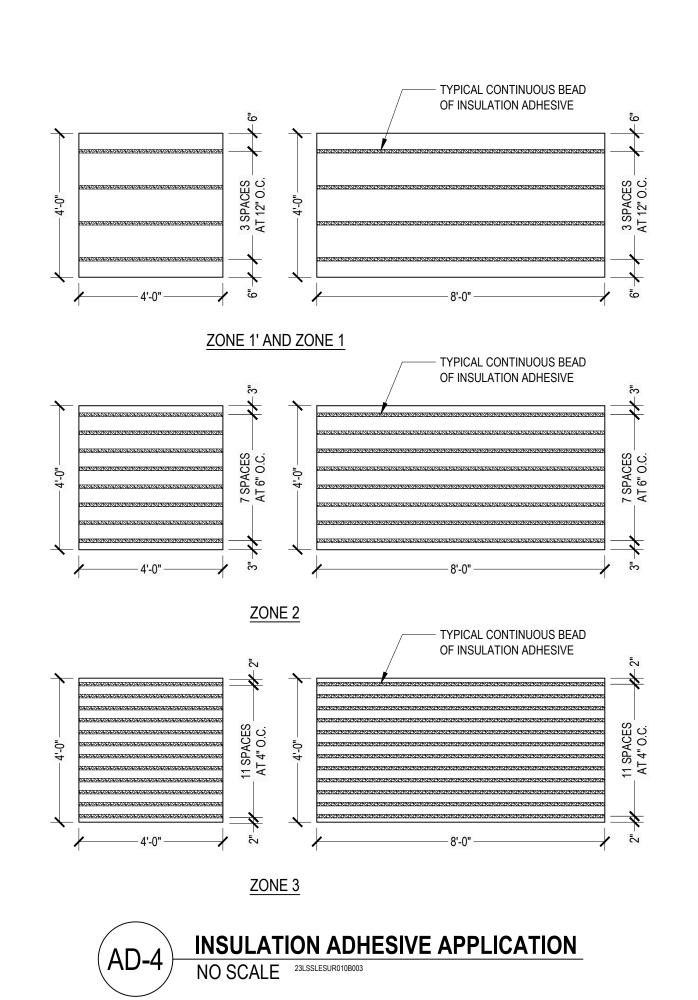
- TEK 5 FASTENER

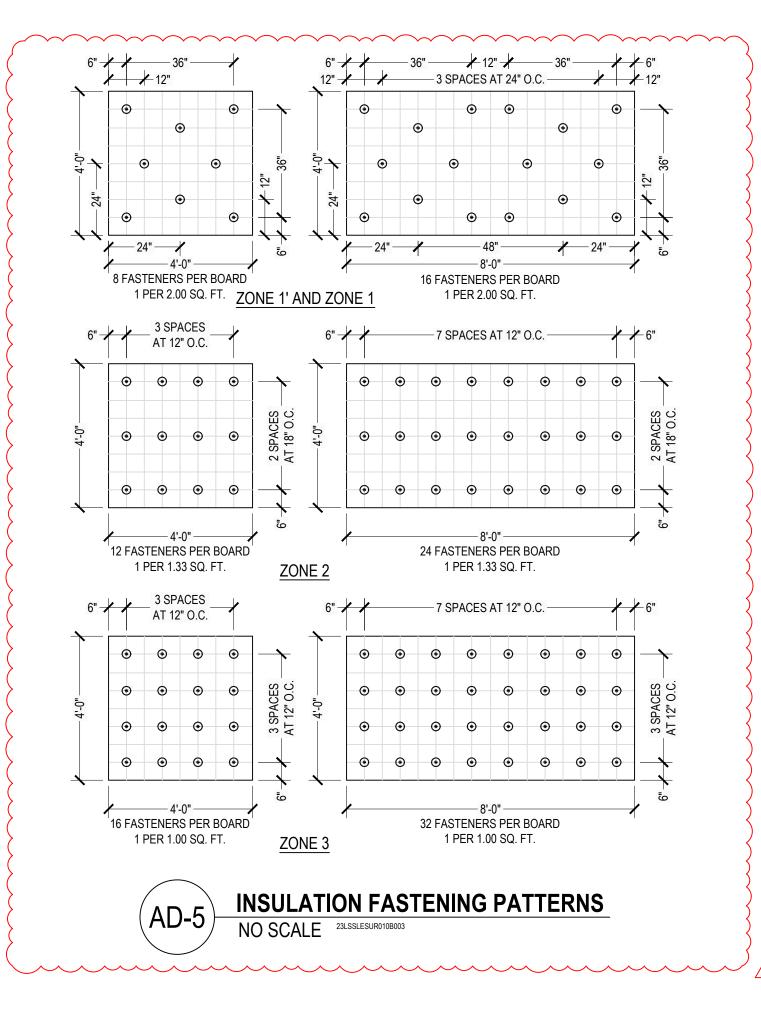
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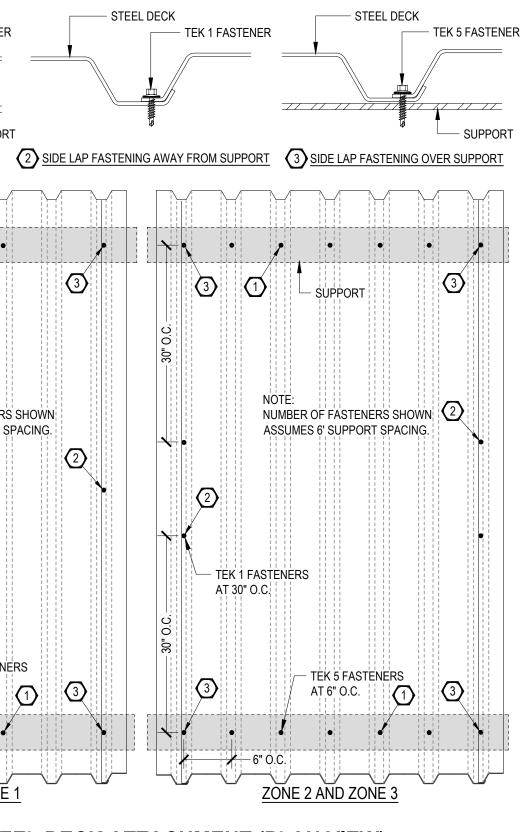
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SCHEDULE OF ATTACHMENT DETAILS NO SCALE 23LSSLESUR010B003

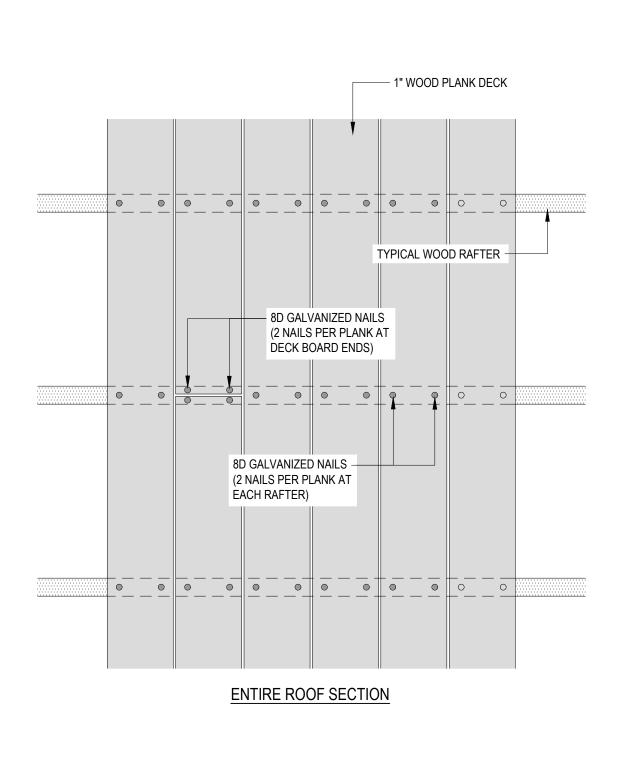




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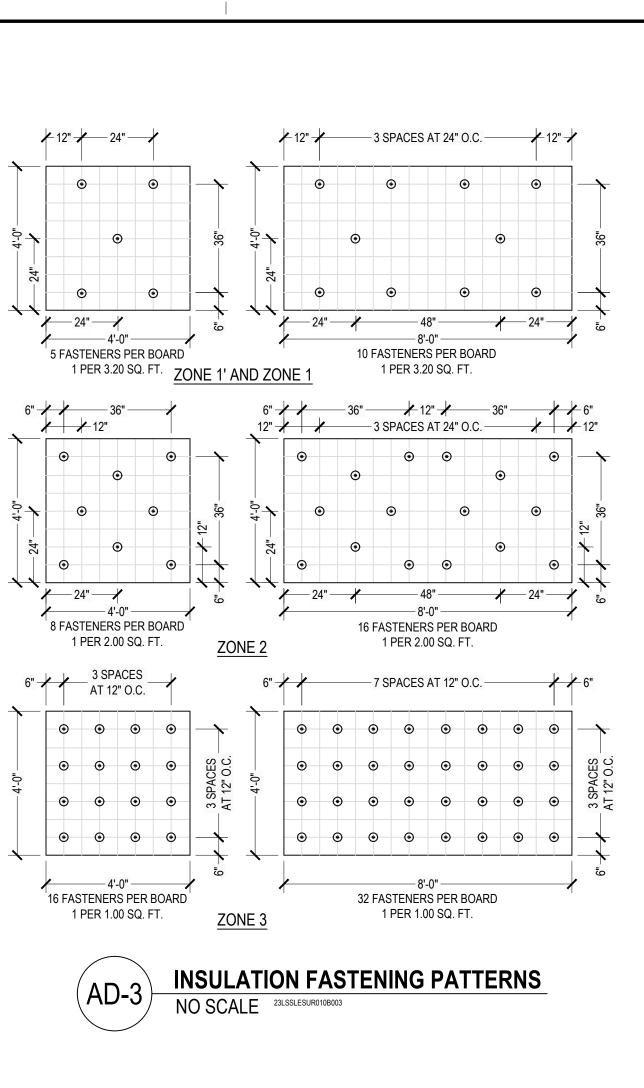




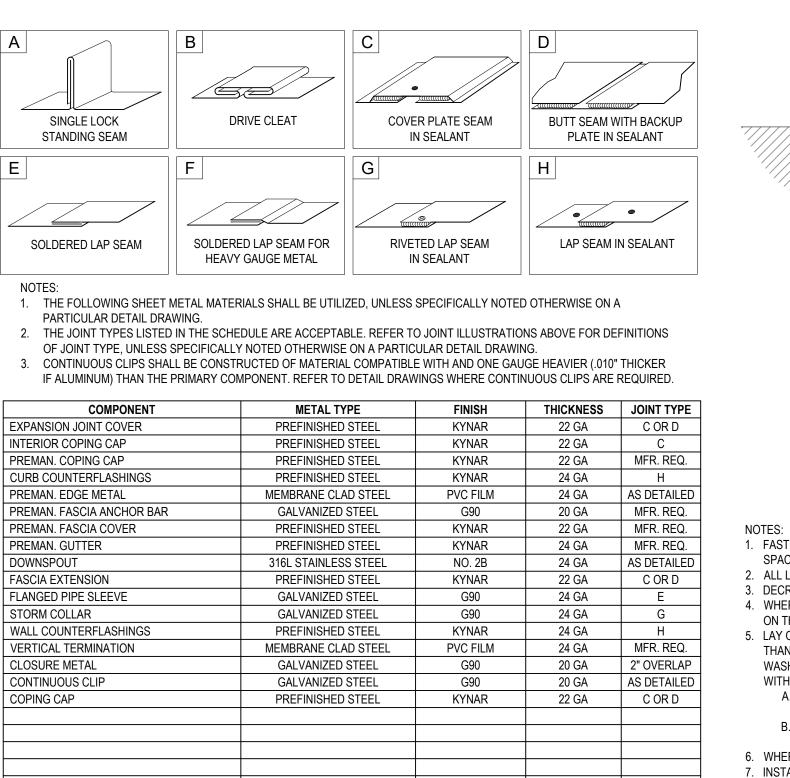


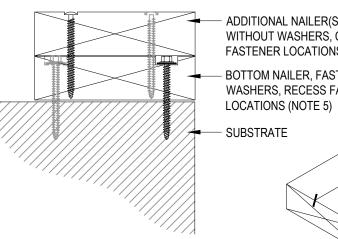


WOOD PLANK DECK ATTACHMENT (PLAN VIEW) NO SCALE ^{23LSSLESUR010B003}



		рате: 02/06/24	DRAWN BY: T. HATLAND PROLECT J. HACKMAN MANAGER J. HACKMAN	
CEDAR RAPIDS, IA • WAUKESHA, WI Phone: 319.393.9100	LEE'S SUMMIT R-7 SCHOOL DISTRICT	ARK PRO	JECT NO	





FASTEN PERIMETER LUMBER IN ACCORDANCE WITH THE FOLLOWING SCHEDULE,

JNLESS OTHERWISE NOTED:		
ATTACHMENT SUBSTRATE	ZONE 2 FASTENER SPACING (MAXIMUM)	ZONE 3 FASTENER SPACING (MAXIMUM)
STRUCTURAL CONCRETE	12" O.C.	6" O.C.
CMU/BRICK (FASTENER INTO SOLID MATERIAL)	12" O.C.	6" O.C.
STEEL DECKING	12" O.C.	6" O.C.
WOOD	12" O.C.	6" O.C.

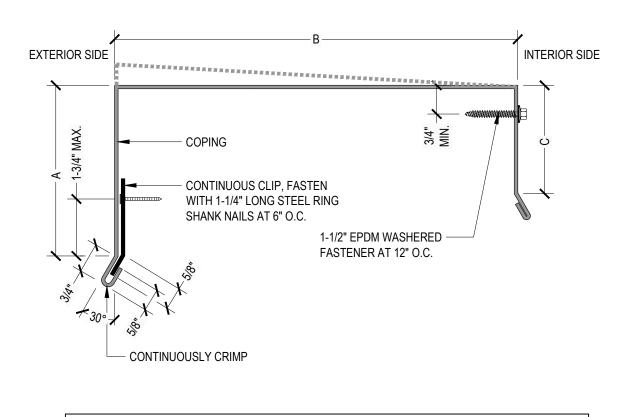
- 1. FASTEN 6" NOMINAL OR WIDER LUMBER USING TWO ROWS OF FASTENERS, EACH SPACED ONE-THIRD OF NAILER WIDTH. NOTED SPACING INDICATES DISTANCE BETWEEN FASTENERS WITHIN EACH ROW.
- 2. ALL LUMBER PIECES SHALL HAVE TWO FASTENERS WITHIN 6" OF EACH END 3. DECREASE FASTENER SPACING IN ZONE 3 AS SPECIFIED. REFER TO ATTACHMENT PLAN DRAWING(S) FOR ZONE 3 LOCATIONS. 4. WHERE TWO OR MORE NAILERS ARE STACKED, FASTEN EACH PIECE OF LUMBER INDEPENDENTLY UNLESS OTHERWISE SHOWN
- ON THE DRAWINGS. 5. LAY OUT AND ROUTE EACH FASTENER LOCATION IN BOTTOM NAILER USING 3/4" FORSTNER BIT. RECESS SHALL BE NO DEEPER THAN REQUIRED FOR FASTENER HEADS TO BE FLUSH WITH WOOD SURFACE. ATTACH BOTTOM NAILER USING SPECIFIED HEX WASHER HEAD FASTENERS WITH 5/8" DIAMETER WASHERS. FASTEN SUBSEQUENT LUMBER WITH THE SPECIFIED SCREWS WITHOUT WASHERS AT THE SPECIFIED SPACINGS. A. RECESS FASTENER HEADS TO BE FLUSH WITH WOOD SURFACE IN ALL LAYERS ATTACHED USING HEX WASHER HEAD
- FASTENERS B. WHERE ROOFING MATERIALS WILL BE APPLIED ONTO CARPENTRY WORK, OUTER/UPPER LUMBER SHALL BE FASTENED
- USING PHILLIPS FLAT HEAD OR PHILLIPS TRUSS HEAD FASTENERS, WITH HEADS INSTALLED FLUSH WITH WOOD SURFACE. WHERE TWO OR MORE PIECES OF LUMBER ARE STACKED, OFFSET BUTT JOINTS A MINIMUM OF 12" BETWEEN ADJACENT LAYERS.
- INSTALL LUMBER WITH 1/4" GAP BETWEEN ADJOINING PIECES. 8. WHERE PRE-DRILLING OF CONCRETE AND/OR MASONRY IS REQUIRED FOR FASTENER INSTALLATION, UTILIZE BIT TYPE AND SIZE, AND HOLE DEPTH RECOMMENDED BY THE FASTENER MANUFACTURER. REMOVE DRILLING DUST FROM FASTENER HOLES PRIOR TO INSTALLING FASTENERS.





(SMS)-

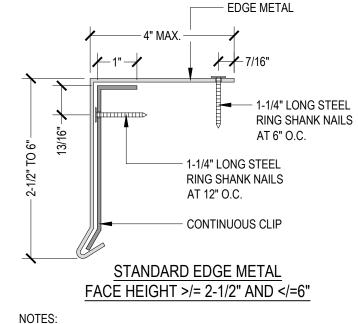
CHEDUL	E OF ROOF RELATED SHEET METAL
IO SCALE	23LSSLESUR010B003



	ES-1 COPINGS						
COPING	CONTINUOUS CLIP	MAXIMUM "A"	MAXIMUM "B"	MAXIMUM "C"	ES-1 RATING (PSF)		
		OUTSIDE FACE	WIDTH	INSIDE FACE			
22 ga Steel	20 ga Steel	5"	12"	3"	290		
22 ga Steel	20 ga Steel	5.25"	16"	4"	300		

- NOTES: 1. CONTINUOUS CLIP SHALL BE FACE FASTENED IN THE CENTER OF THE BOTTOM NAILER WHERE MORE THAN ONE 2X NAILER IS USED AT PERIMETER EDGES.
- 2. COPING METAL MUST BE FABRICATED AND INSTALLED AS DETAILED TO COMPLY WITH ANSI/SPRI ES-1.
- 3. REFER TO DETAIL FOR SPECIFIC COPING APPLICATION.
- 4. REFER TO DETAIL (SMS) FOR METAL TYPE.





- 1. RING SHANK NAILS SHALL ONLY BE USED TO ANCHOR EDGE METAL AND CONTINUOUS CLIP INTO 2X WOOD NAILERS. CONTINUOUS CLIP SHALL BE FACE FASTENED INTO CENTER OF 2X WOOD NAILER. #14 X 1-1/2" SCREWS MAY BE SUBSTITUTED FOR RING SHANK NAILS AS APPROVED BY THE EDGE METAL MANUFACTURER.
- 2. SUBSTITUTE APPROPRIATE FASTENERS WHEN ANCHORING INTO ALTERNATE SUBSTRATES AS APPROVED BY THE EDGE METAL MANUFACTURER. S IN

3.	FASTENERS SHALL BE INSTALLED AT PREPUNCHED HOLES
	EDGE METAL AND CONTINUOUS CLIP.

PREMANUFACTURED STANDARD EDGE METAL							
OUTSIDE FACE DIMENSION	EDGE METAL	CONTINUOUS CLIP	ES-1 RATING (PSF)	FN			
2-1/2" TO 6"	24 GA STEEL MEMBRANE CLAD	22 GA STEEL	282				



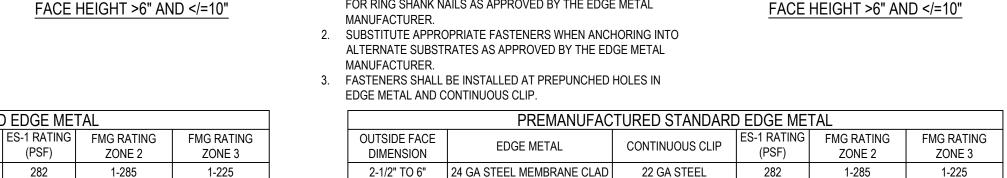
NO SCALE 23LSSLESUR010B003

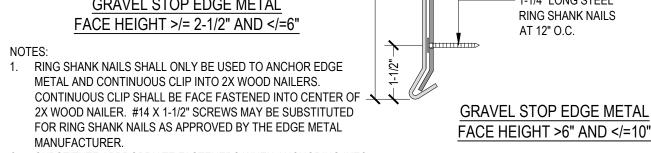
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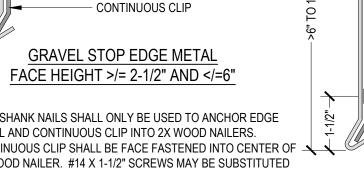
PREMANUFACTURED EDGE METAL



PREMANUFACTURED EDGE METAL NO SCALE 23LSSLESUR010B003



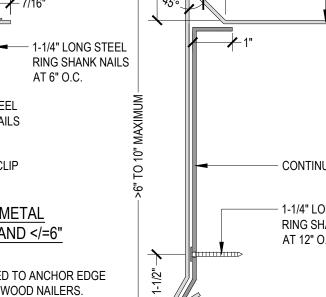


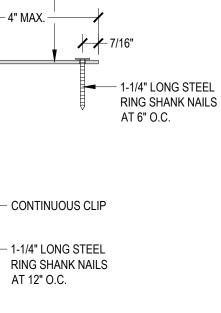


1-1/4" LONG STEEL

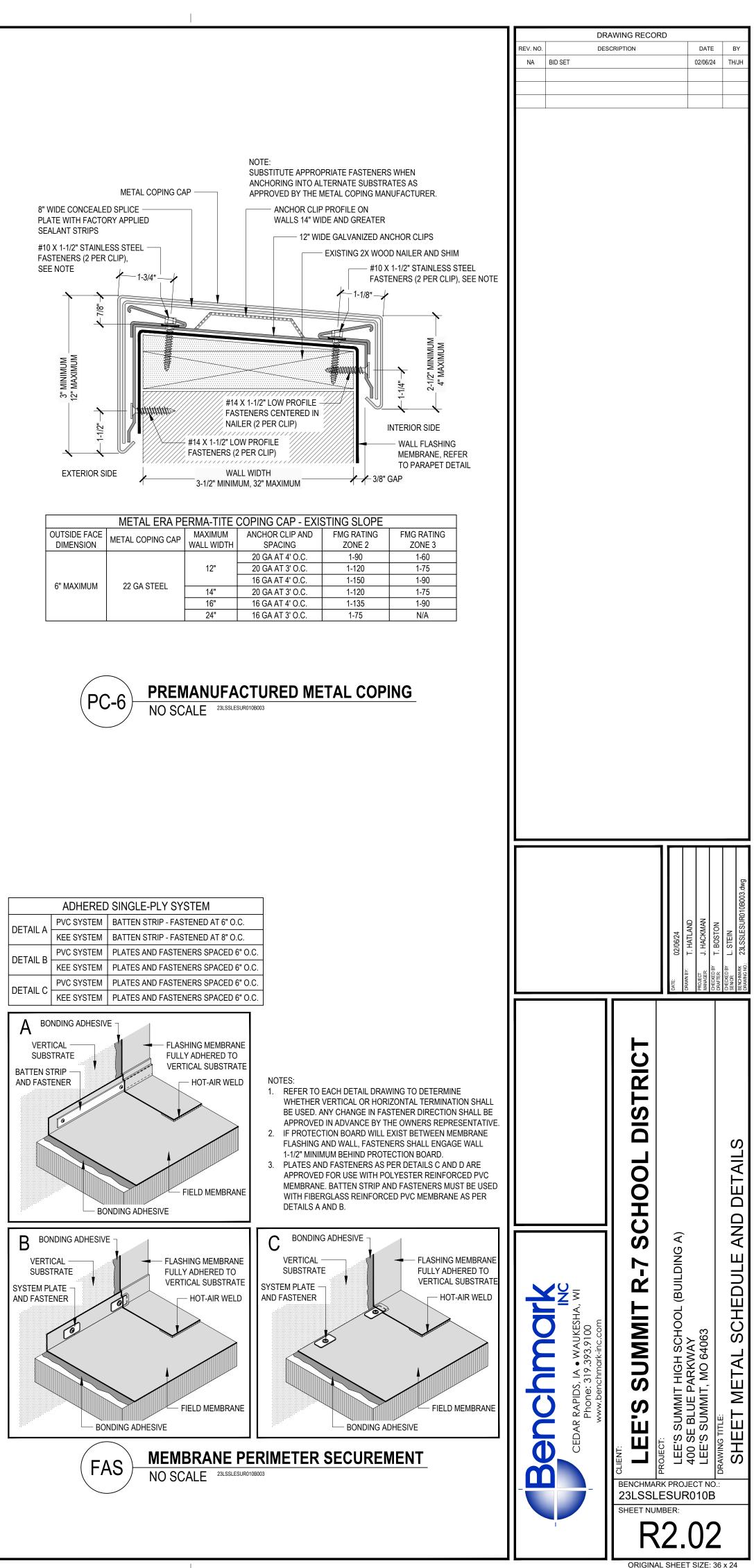
RING SHANK NAILS

AT 12" O.C.





- EDGE METAL



- EDGE METAL

— 1-1/4" LONG STEEL

AT 6" O.C.

ZONE 3

1-225

- CONTINUOUS CLIP

- 1-1/4" LONG STEEL

AT 12" O.C.

STANDARD EDGE METAL

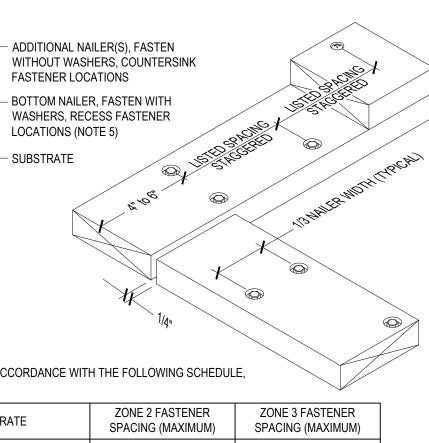
FACE HEIGHT >6" AND </=10"

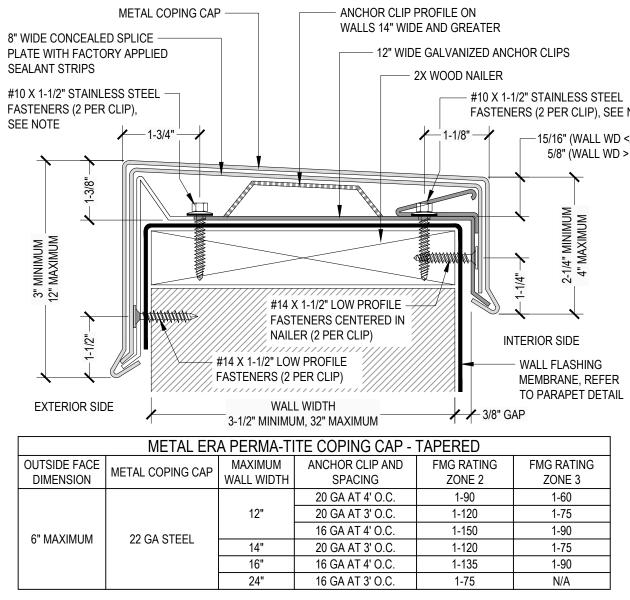
ZONE 2

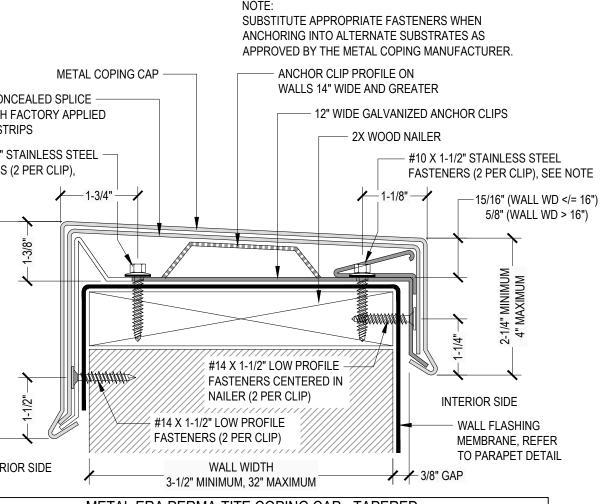
1-285

RING SHANK NAILS

RING SHANK NAILS





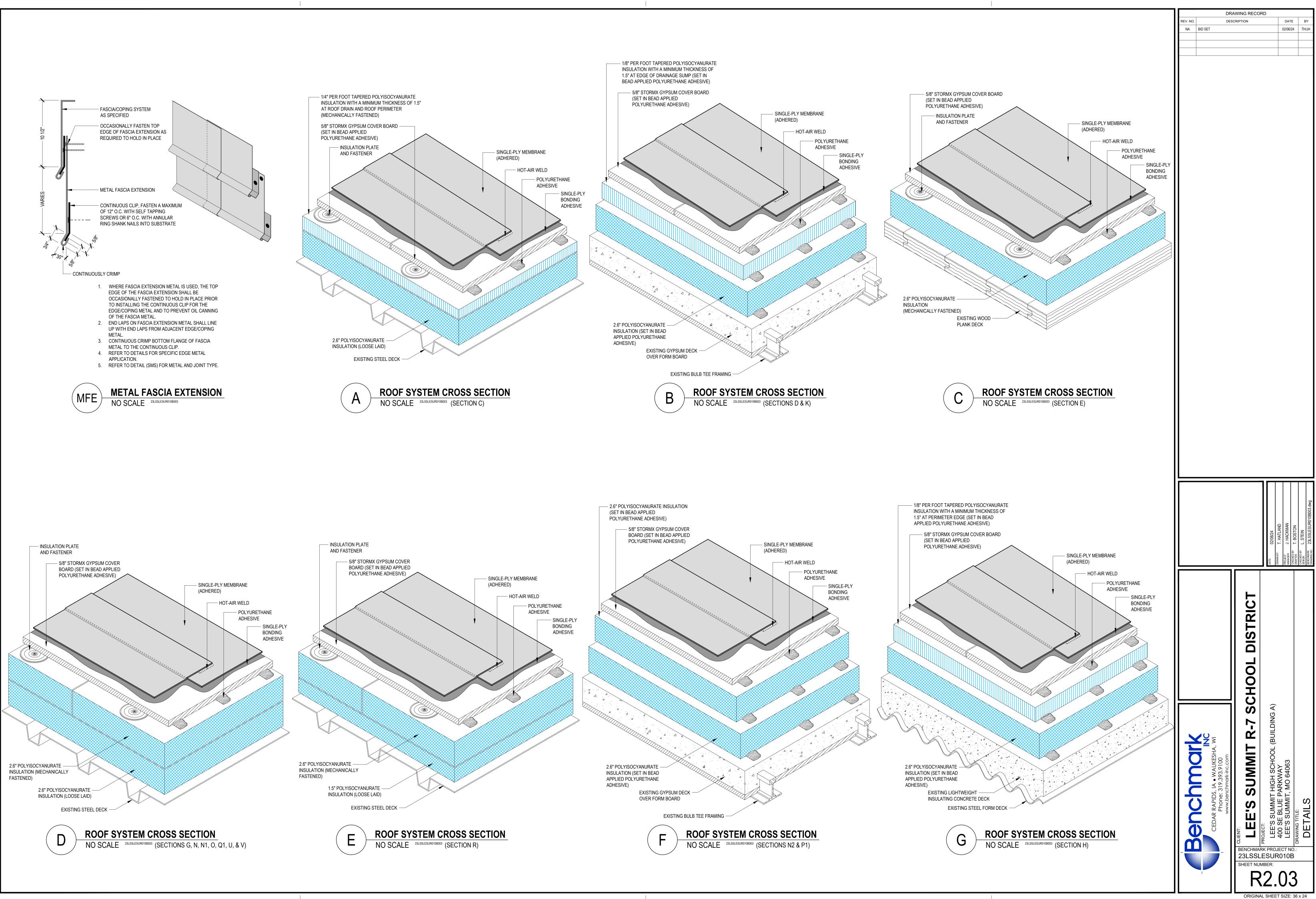


PREMANUFACTURED METAL COPING

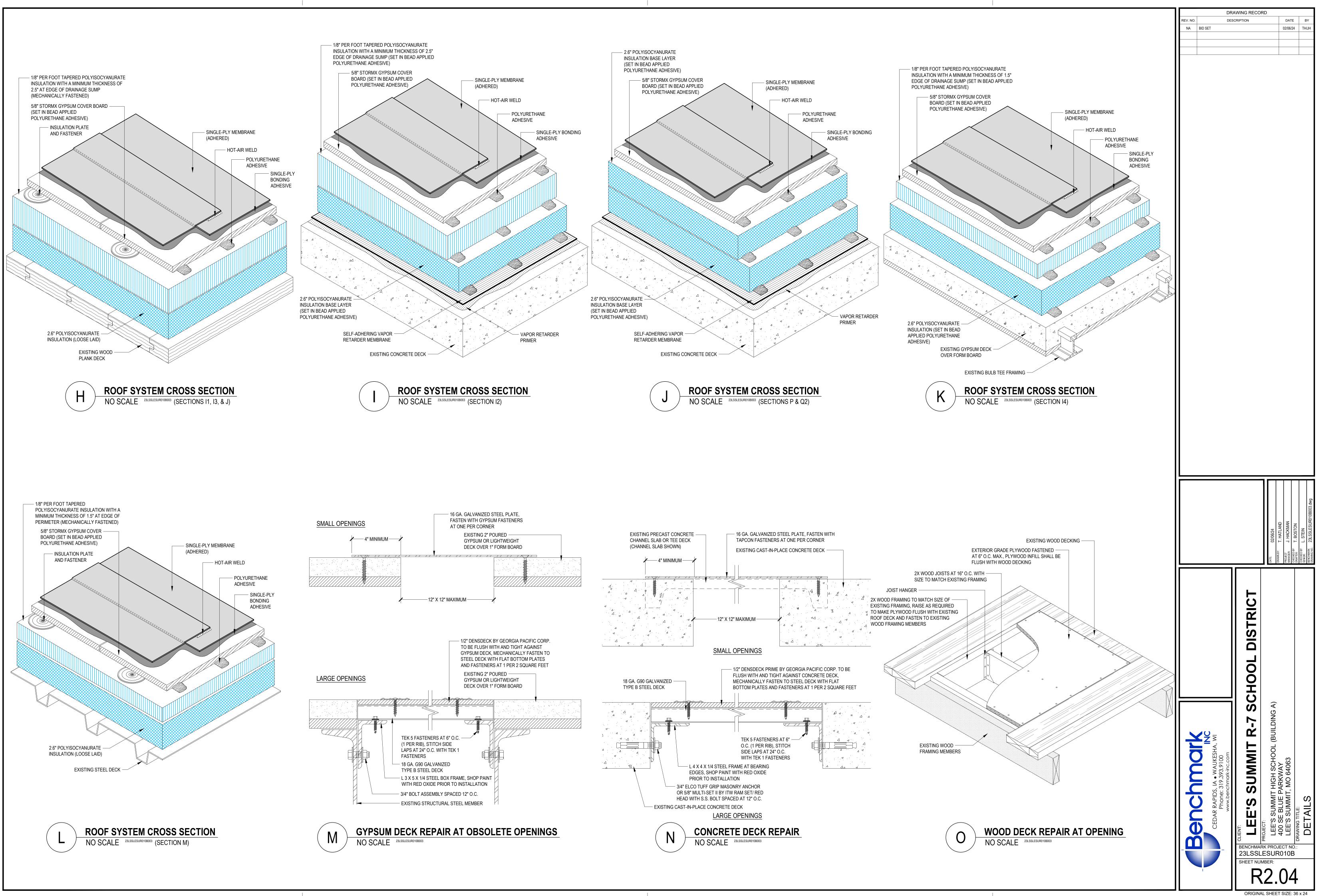
NO SCALE 23LSSLESUR010B003

- EDGE METAL

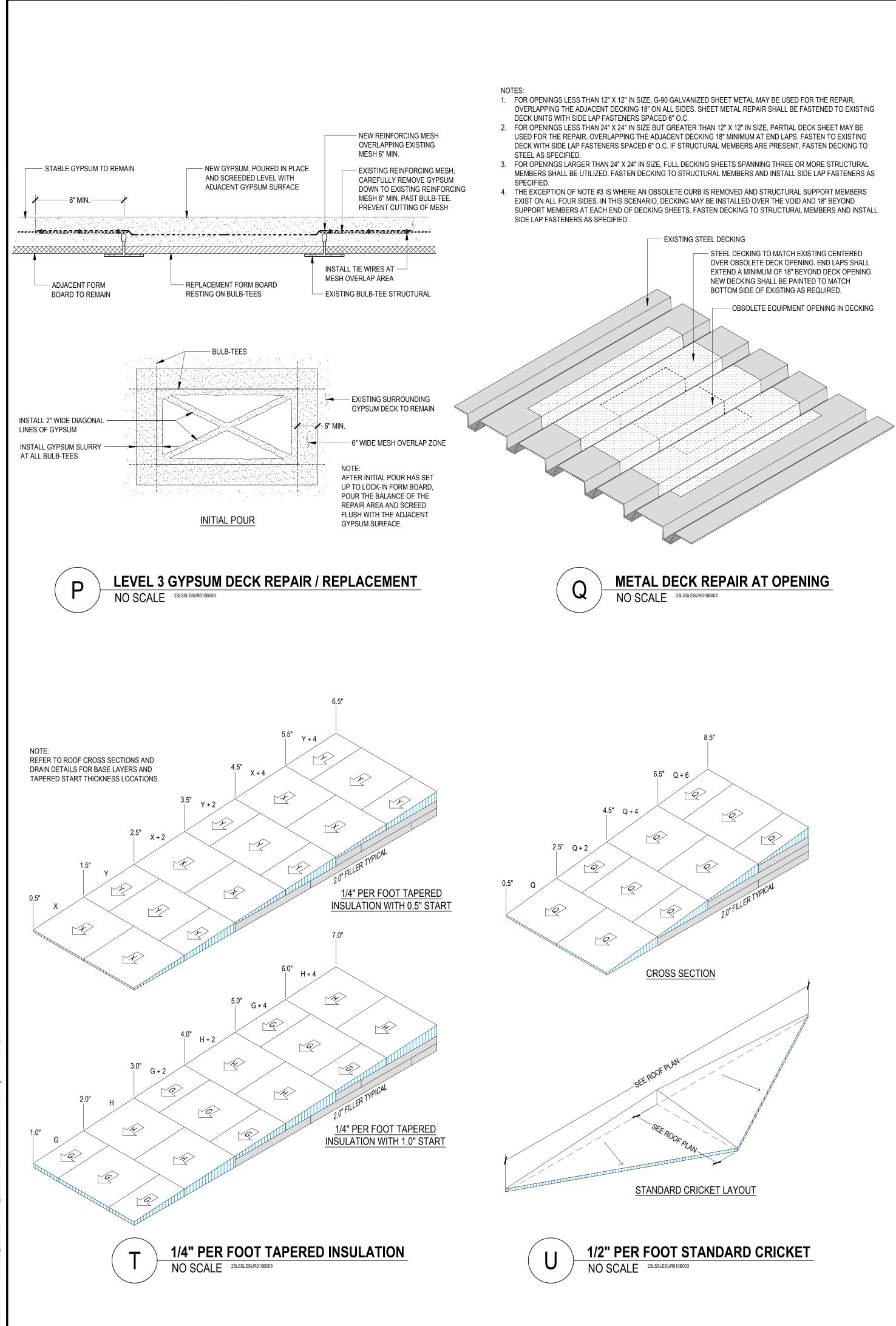
7/16"

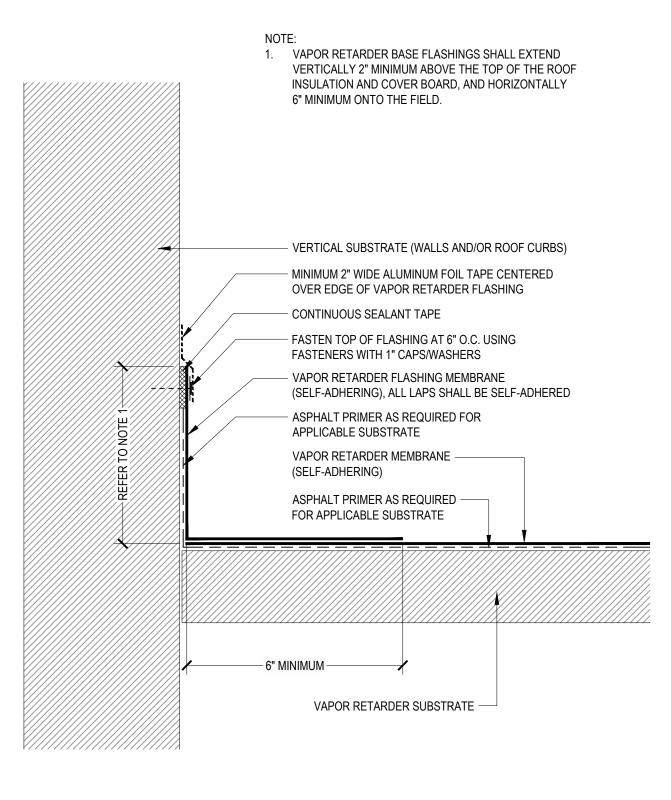


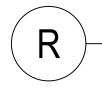
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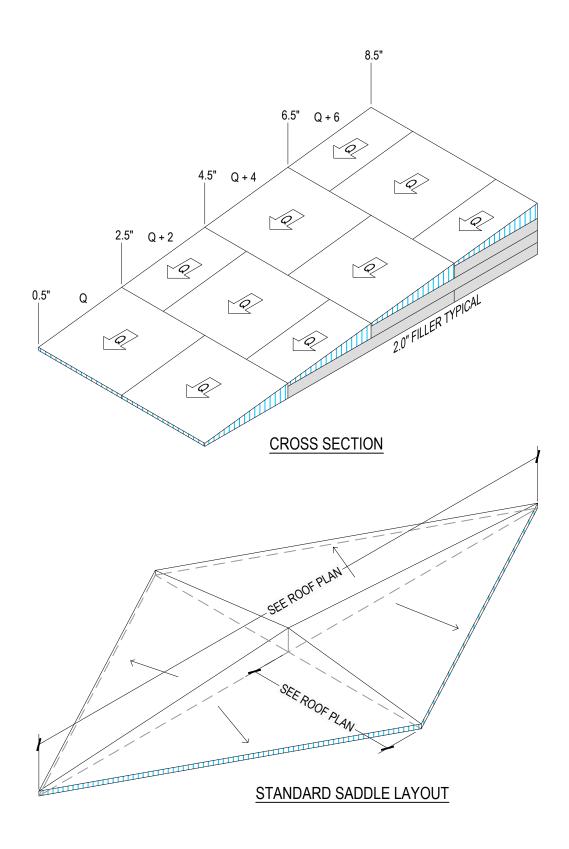
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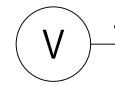




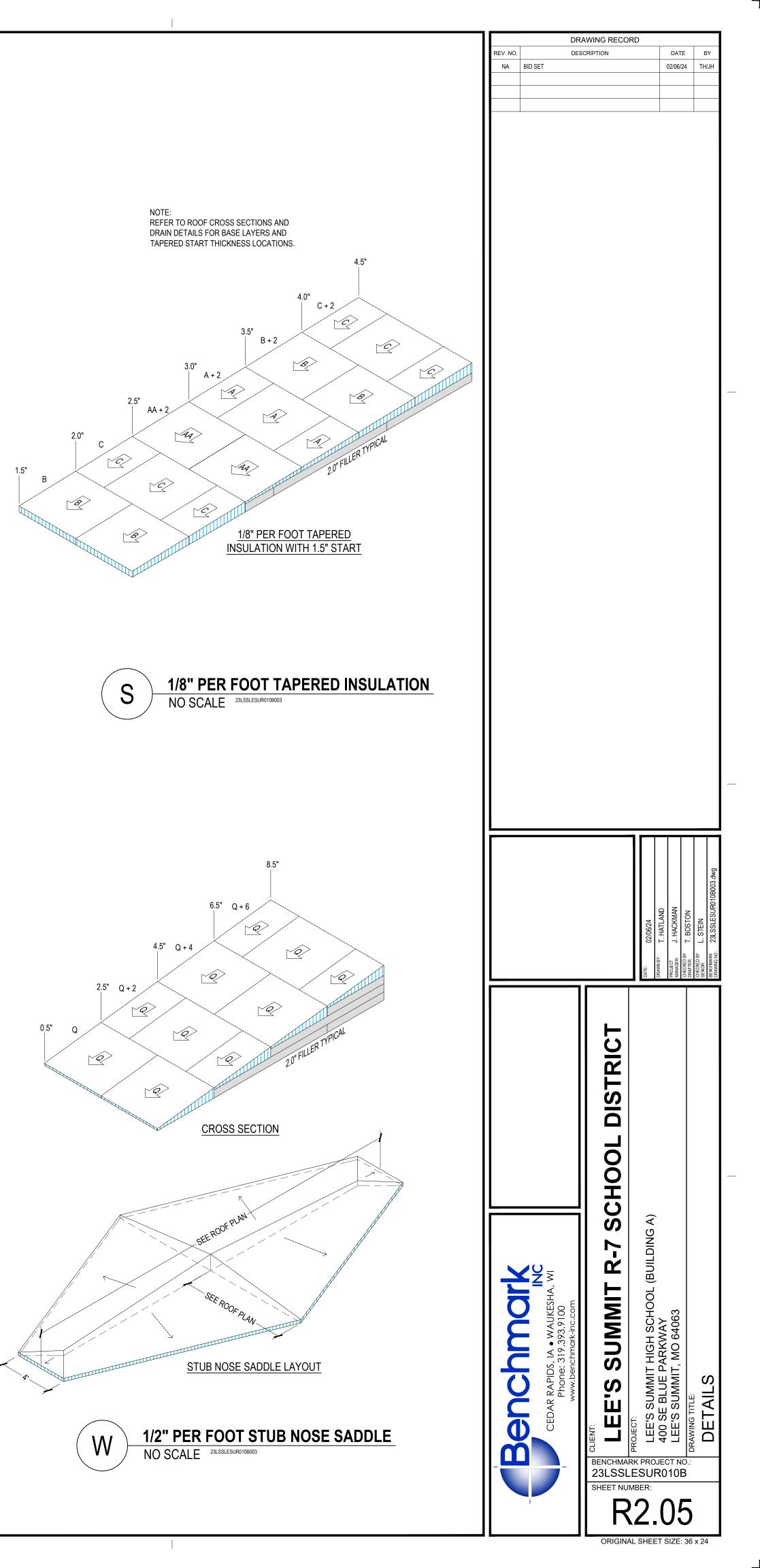


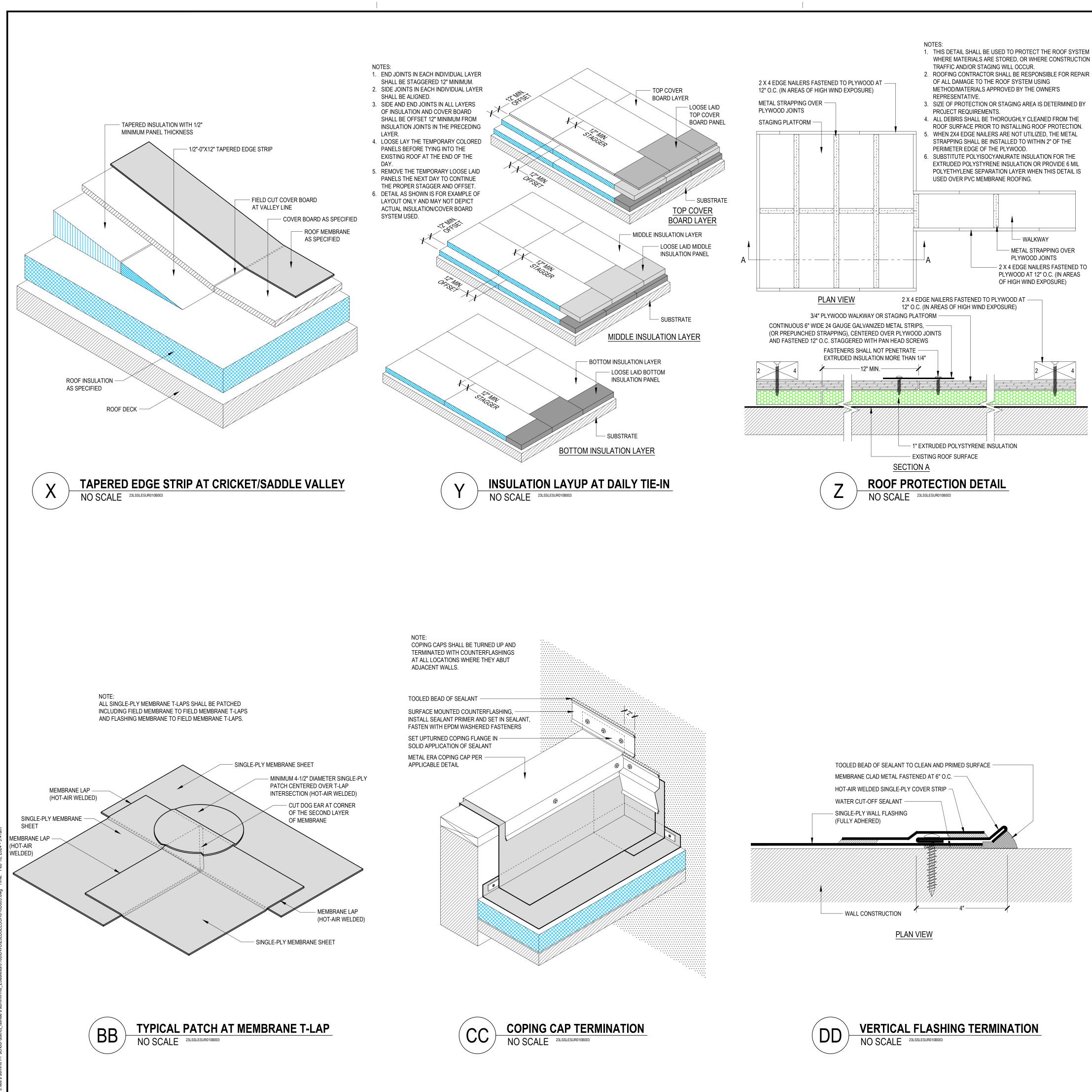
TYPICAL VAPOR RETARDER AND FLASHING NO SCALE 23LSSLESUR010B003



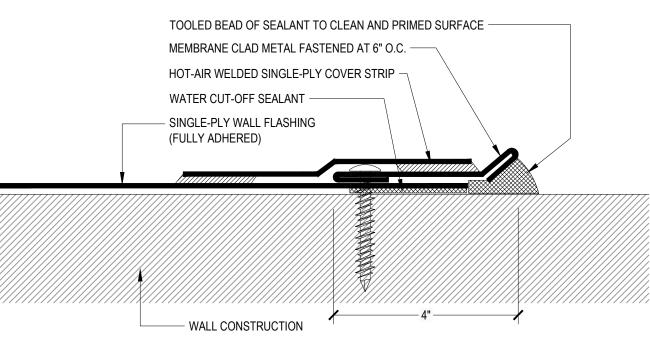


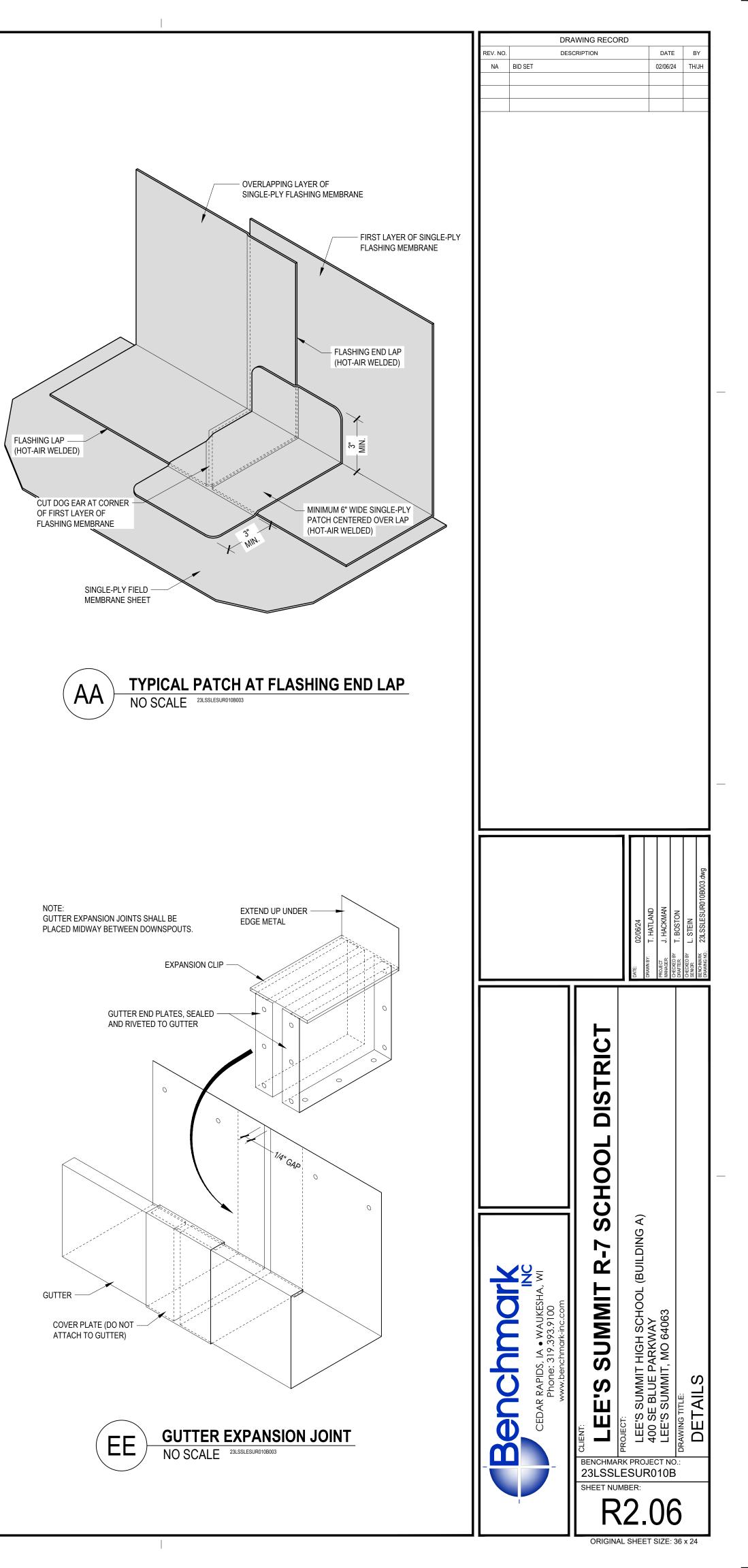
1/2" PER FOOT STANDARD SADDLE NO SCALE 23LSSLESUR010B003

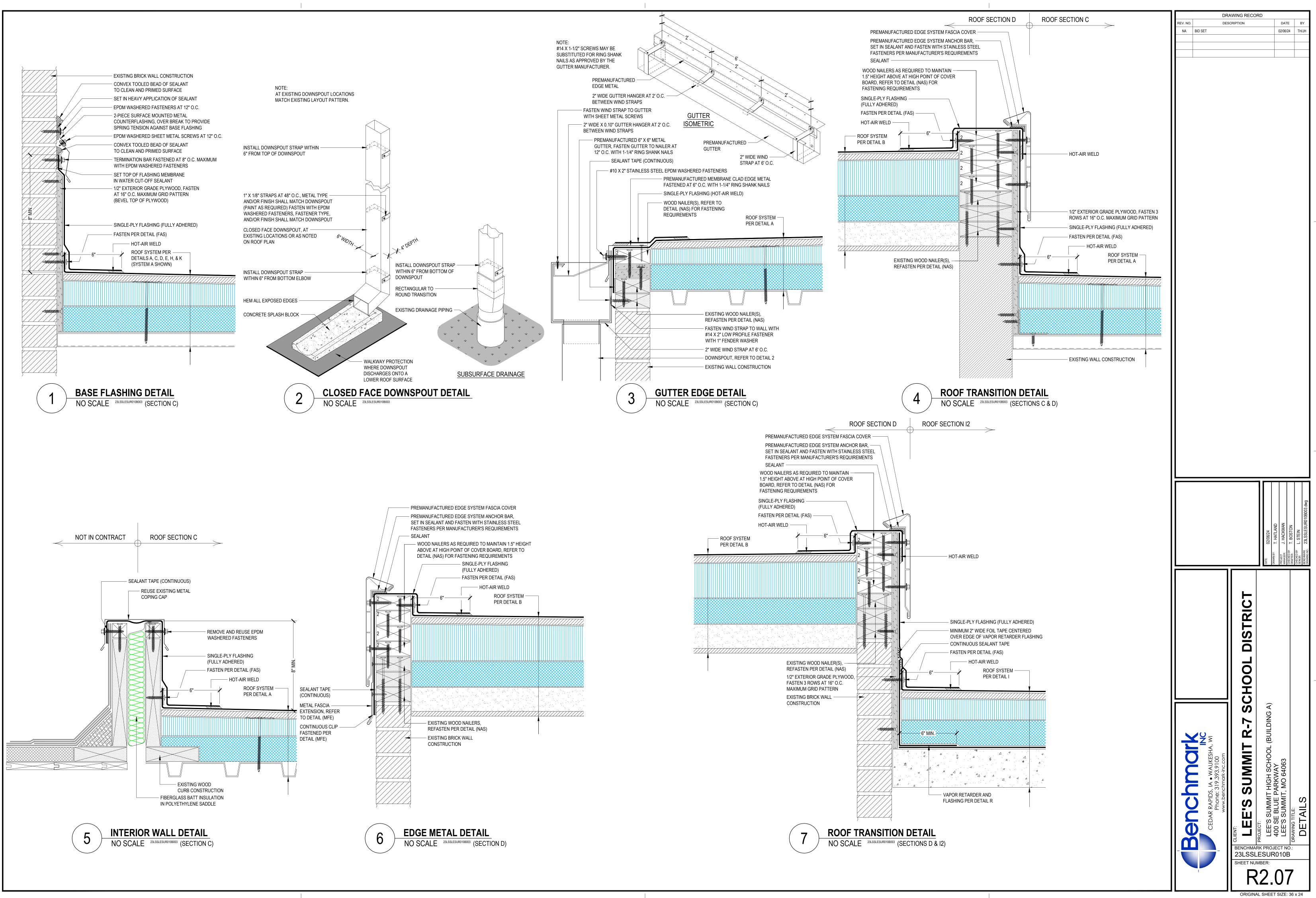




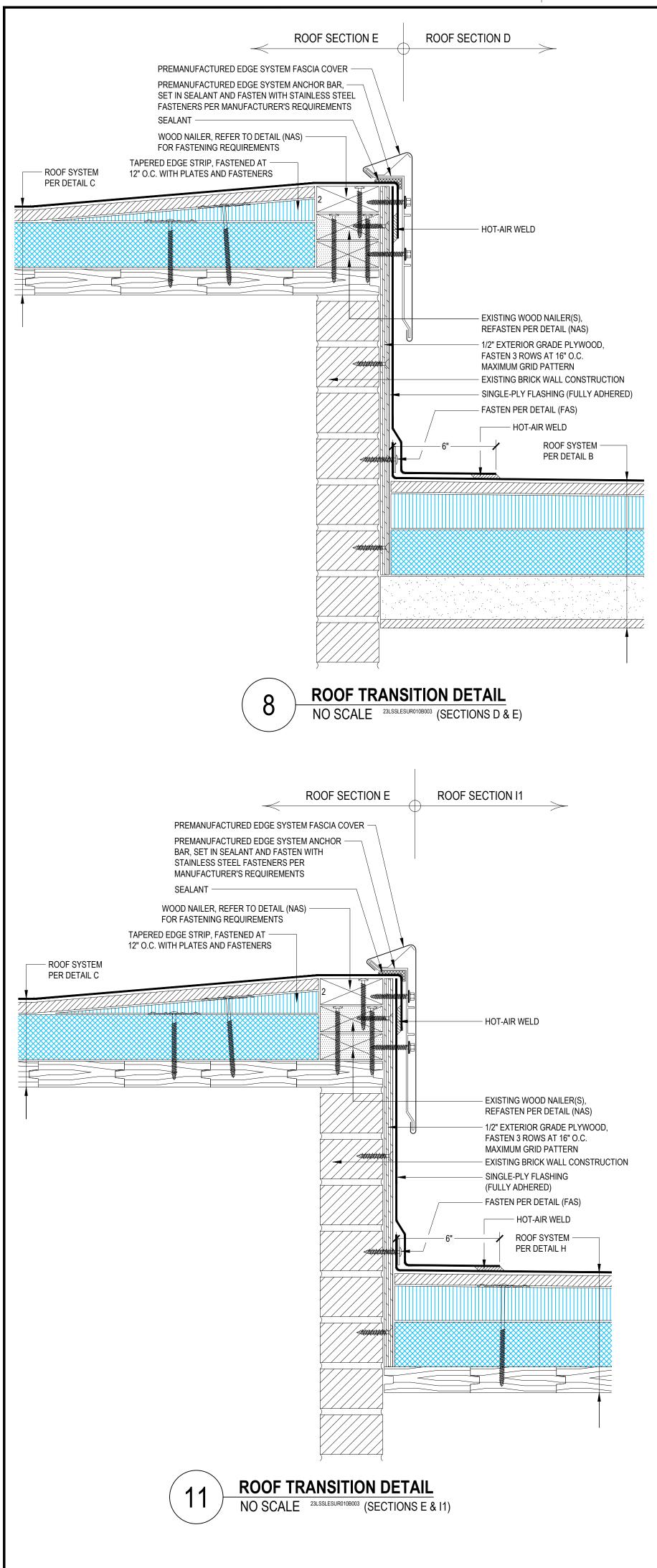


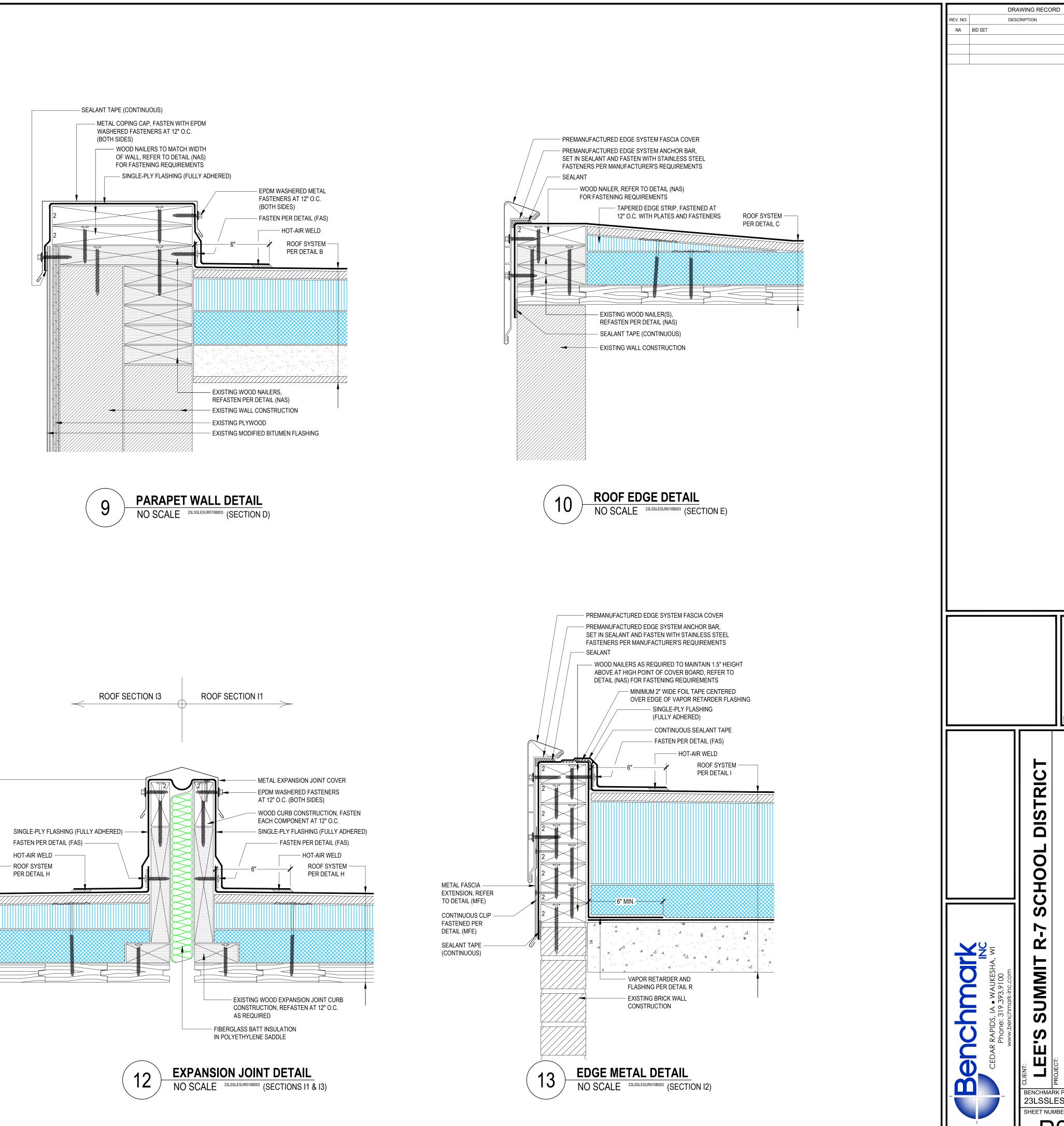




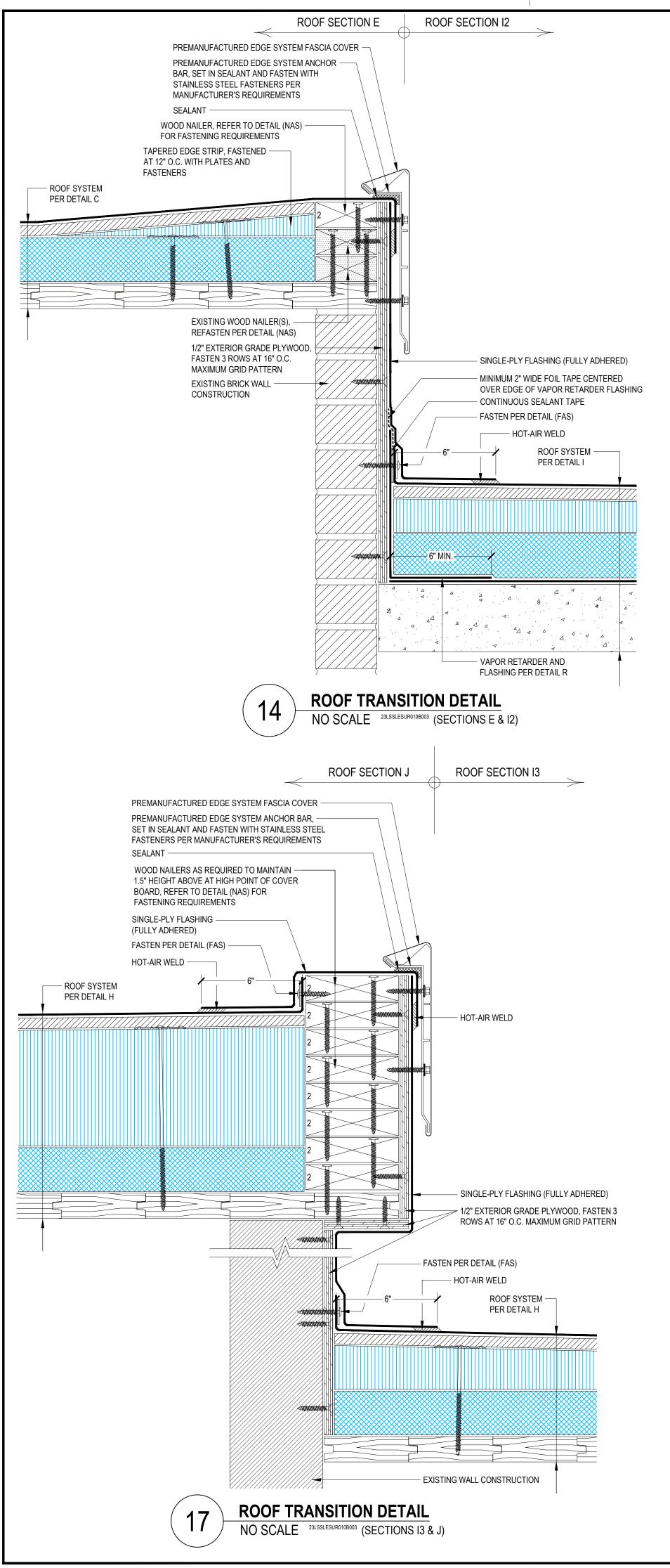


e's summit r-7 school district_lss\lee's summit-mo_23lss\esur010b\DWG\23LSSLESUR010B003.dwg Time: Feb 16, 2024 - 9:41am

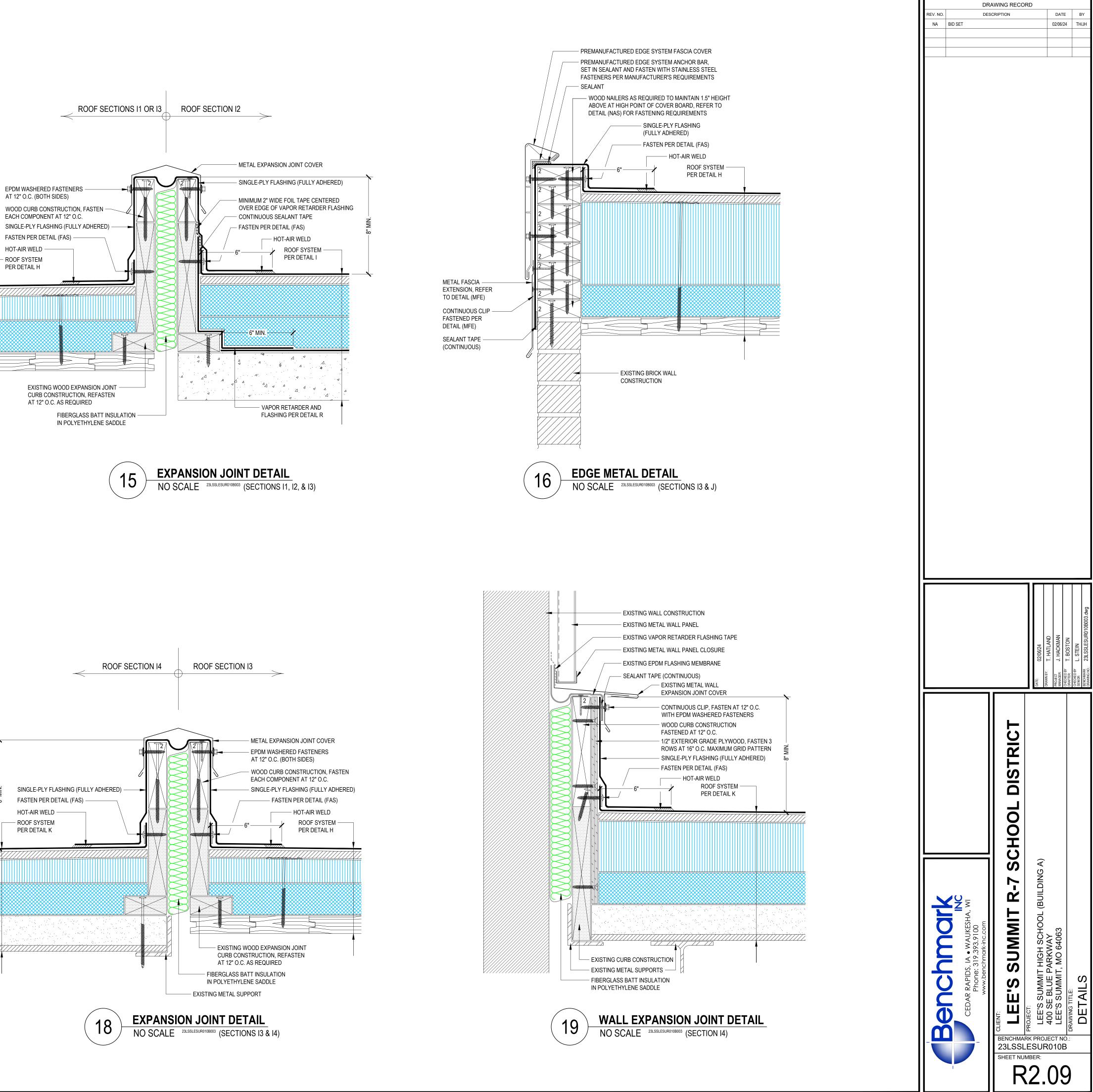




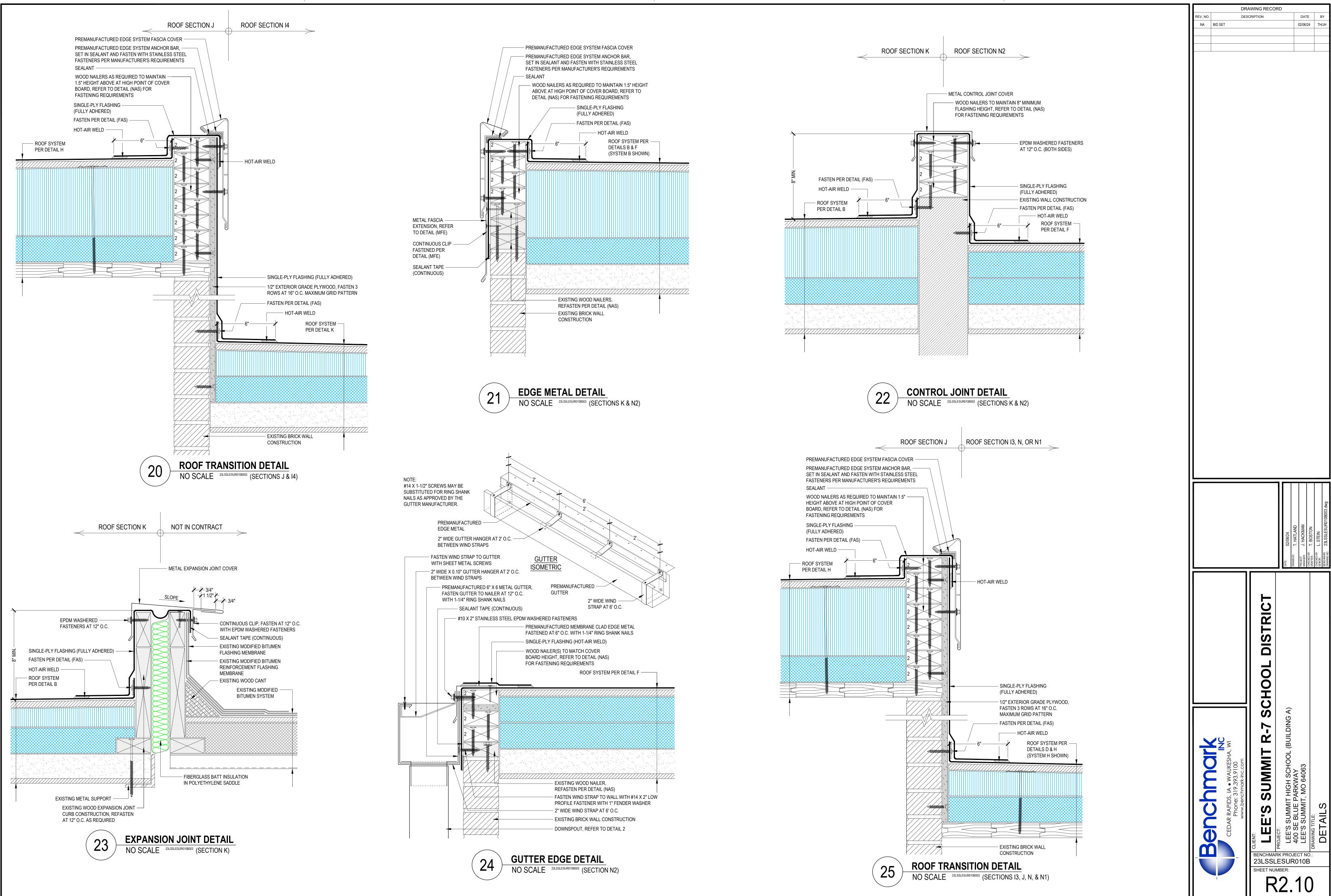
DATE BY DESCRIPTION 02/06/24 TH/JF C TRI S Ο **O**H SC R SUMMIT $5 \leq 4$ ò ≥ ARK SUMMI BLUE SUMMI S ш 4 ູດ ດີ ເ ເ Ш Ĺ LEE LEE BENCHMARK PROJECT NO .: 23LSSLESUR010B SHEET NUMBER: R2.08 ORIGINAL SHEET SIZE: 36 x 24

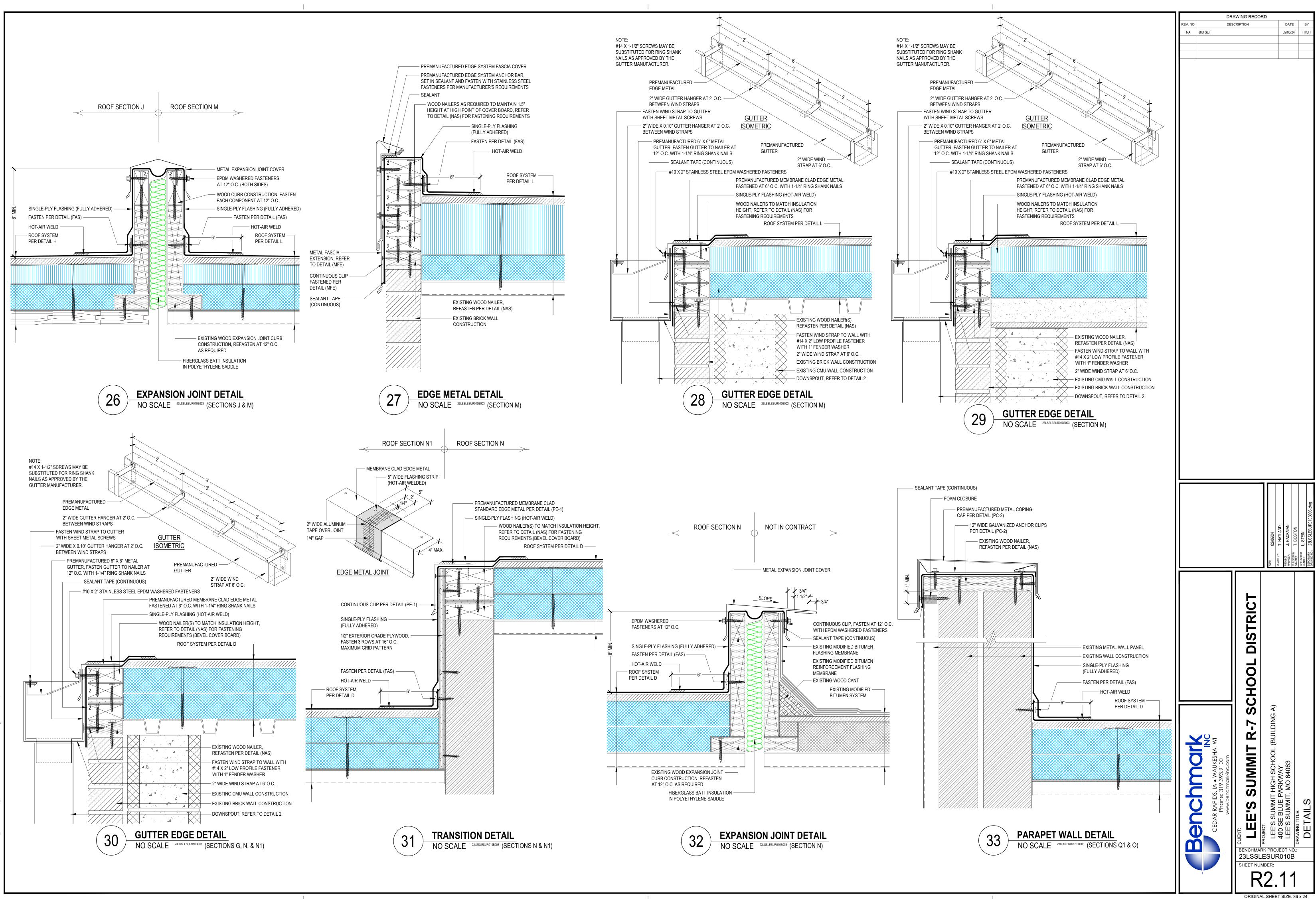


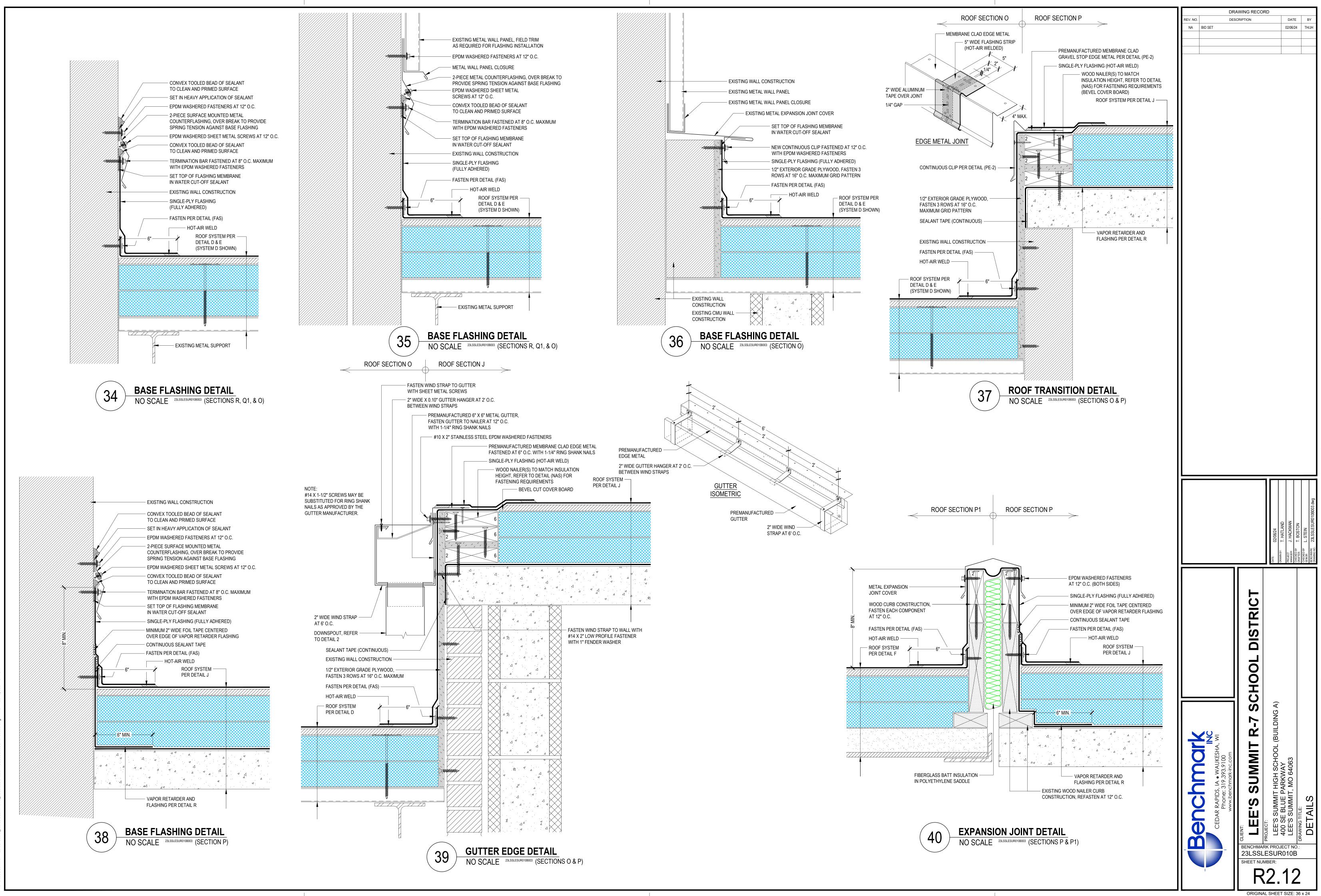
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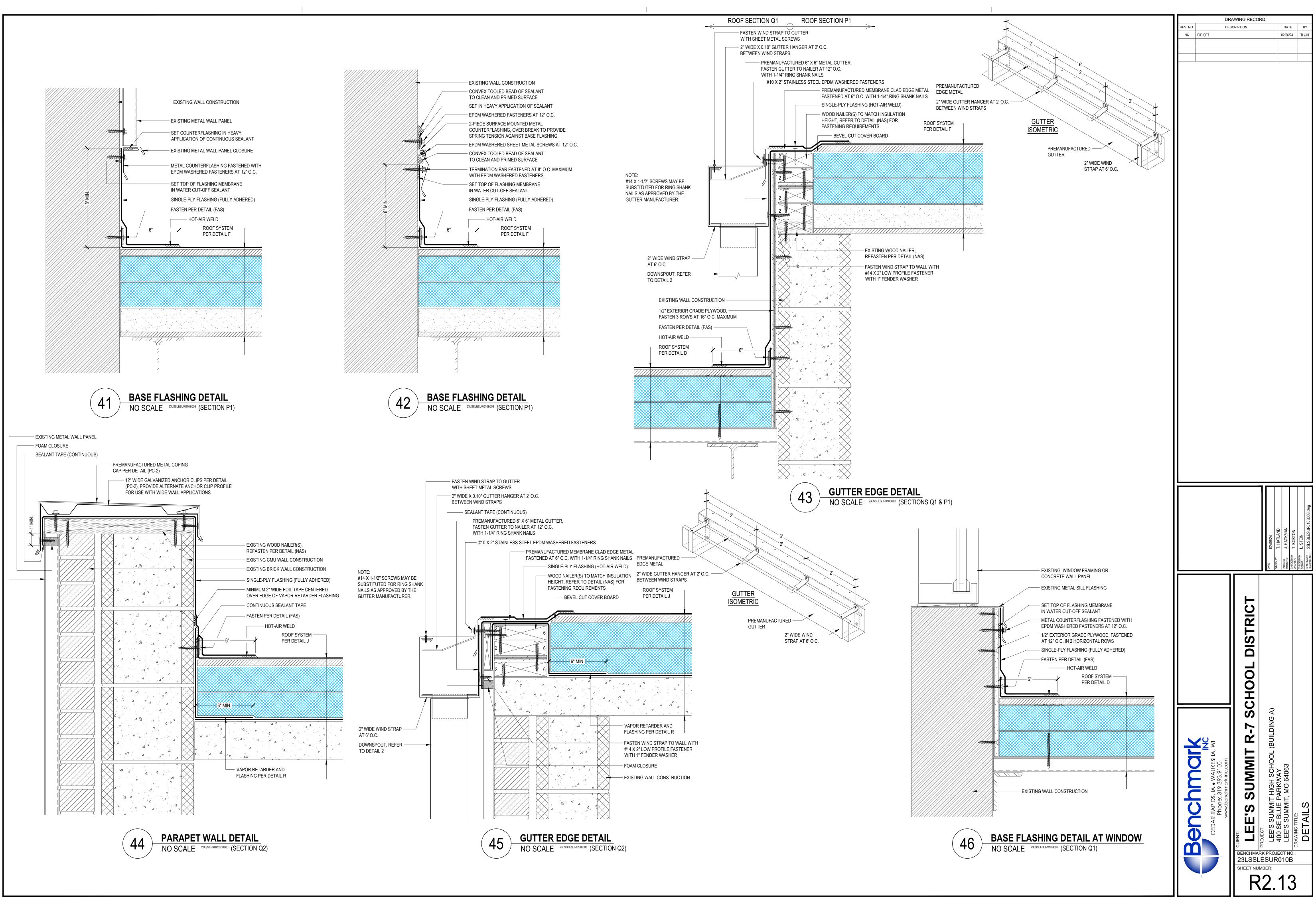
ORIGINAL SHEET SIZE: 36 x 24





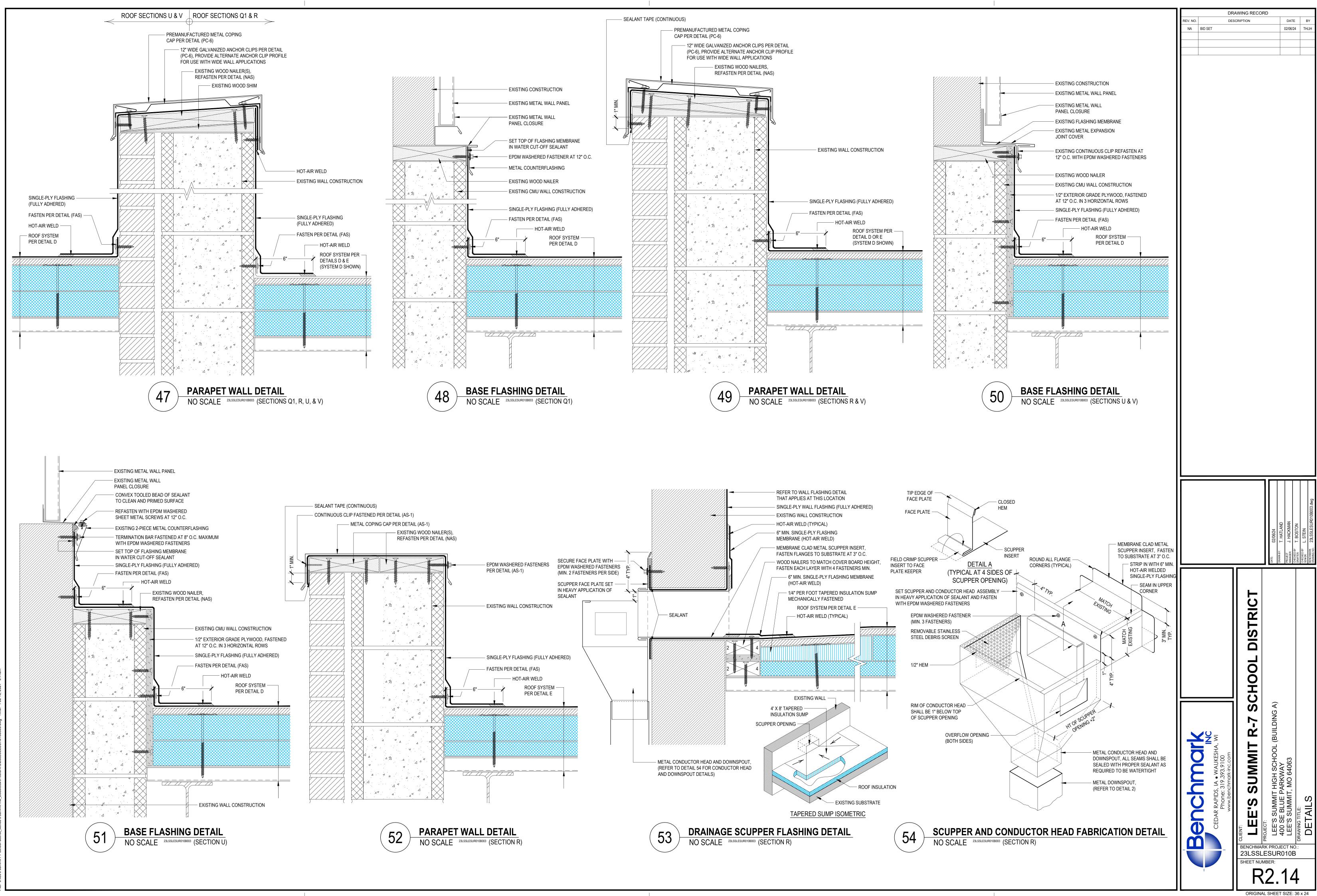


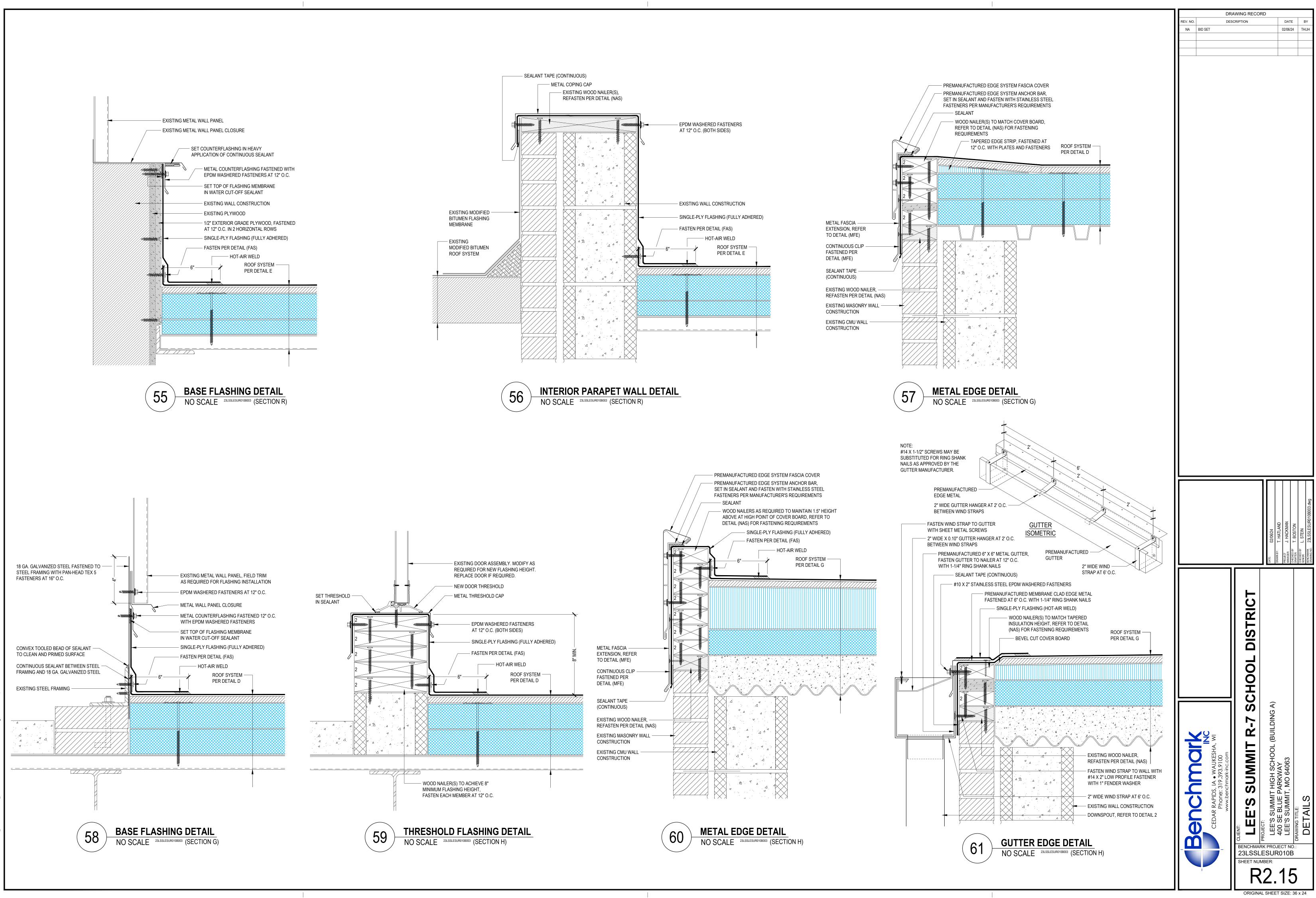
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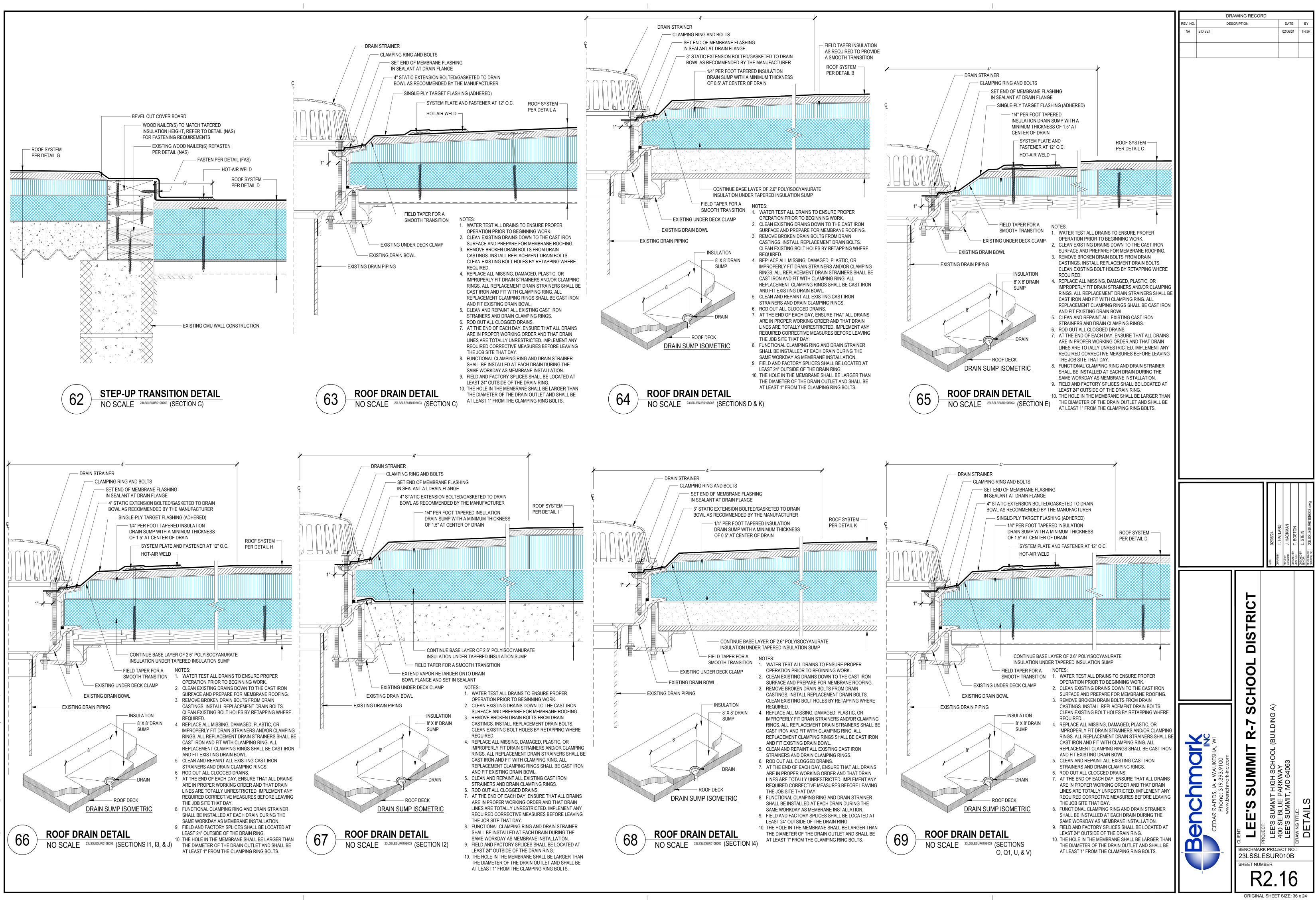


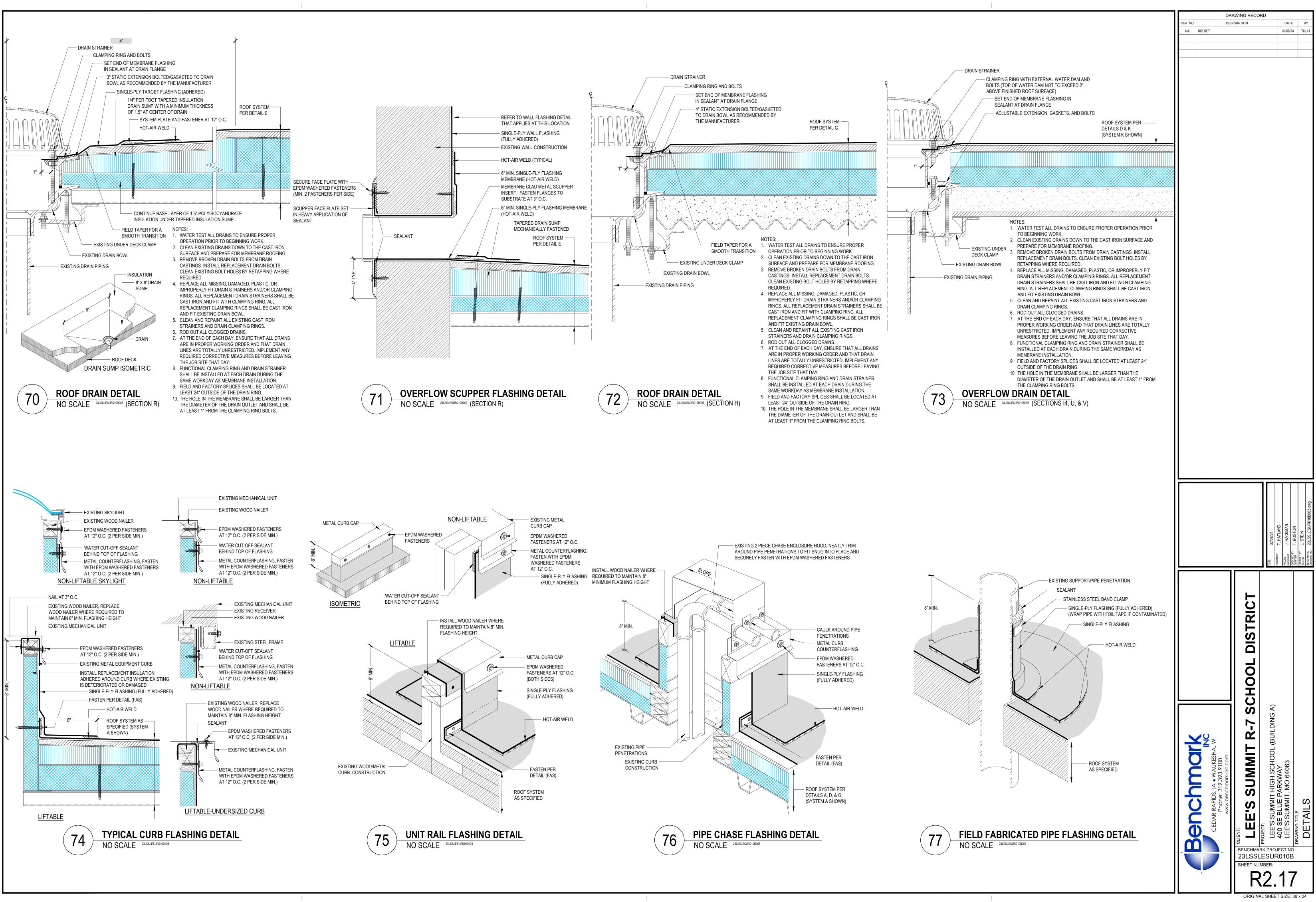
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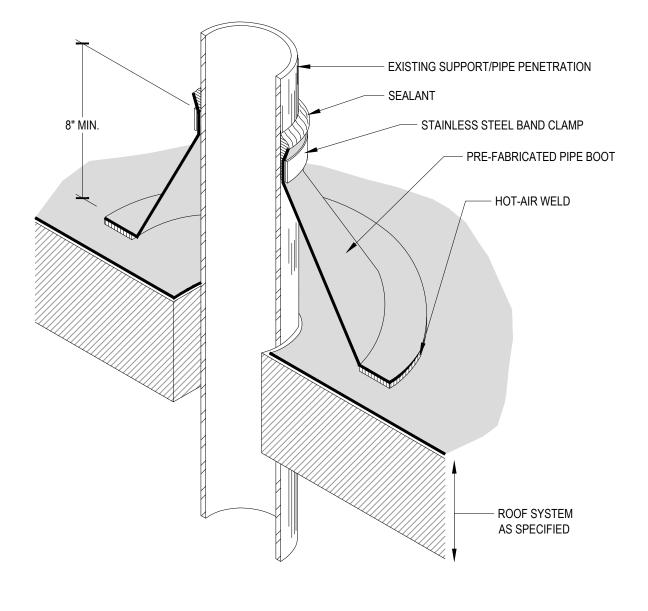
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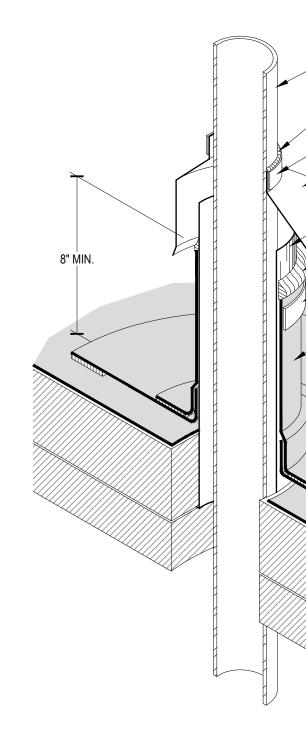








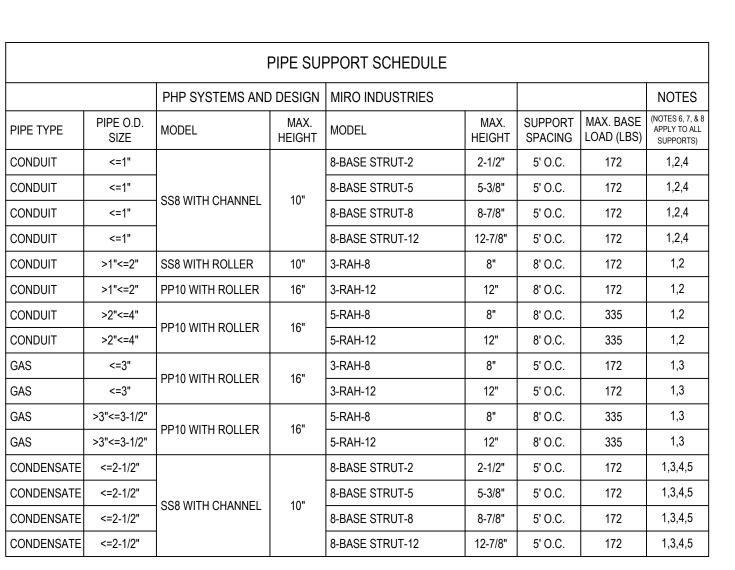




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PRE-FABRICATED PIPE FLASHING DETAIL NO SCALE 23LSSLESUR010B003



NOTES:

1. PROVIDED PIPE SUPPORT SPACINGS ARE MAXIMUMS. SPACING SHALL BE ADJUSTED SO THAT THE MAXIMUM BASE LOAD IS NOT EXCEEDED. 2. SUPPORT SHALL BE LOCATED WITHIN 12" OF EACH CONDUIT JOINT.

- 3. SUPPORT SHALL BE LOCATED WITHIN 24" OF ALL PIPING CHANGE IN
- DIRECTION. 4. PIPES <1" DIAMETER SHALL BE TIGHTLY CLAMPED TO THE SUPPORT.
- 5. PIPES >1" DIAMETER SHALL BE LOOSELY CLAMPED TO THE SUPPORT.
- 6. INSTALL WALKWAY PAD BENEATH EACH SUPPORT BASE. EXTEND 3"
- MINIMUM BEYOND SUPPORT BASE ON EACH SIDE.
- 7. PROVIDE AND INSTALL ALL REQUIRED HARDWARE NOT SHOWN FOR SECUREMENT OF EQUIPMENT TO PIPE SUPPORTS.

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8. FIELD CUT AND REMOVE ANY ALL-THREAD ABOVE TOP SECUREMENT NUT ON ALL SUPPORTS.



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