

- ## GENERAL NOTES

- A. THIS DRAWING IS INTENDED FOR INFORMATION, APPROXIMATE CONFIGURATION, AND LOCATION OF DETAILS AND NOTES. CONTRACTOR SHALL FIELD VERIFY ALL ITEMS FOR BIDDING AND INSTALLATION PURPOSES.
- B. WHERE NOT OTHERWISE NOTED AS "TYPICAL", THE REFERENCED INFORMATION SHALL APPLY AT ALL SIMILAR LOCATIONS THROUGHOUT THE PROJECT AREA.
- C. WHERE DETAIL CALCULATIONS ARE NOTED AS "SIMILAR", THE ROOF DECK, INSULATION, AND SUBSTRATE COMPONENTS MAY DIFFER FROM THOSE SHOWN. HOWEVER, THE CONCEPT IN THE DETAIL SHALL REMAIN THE SAME.
- D. IF A GIVEN CONDITION IS NOT REPRESENTED BY A DETAIL DRAWING, AND THE WORK CANNOT BE DEFINED BY REFERRING TO SIMILAR DETAIL, SUBMIT A REQUEST FOR CLARIFICATION TO THE ARCHITECT FOR REPRESENTATION OF THE CONDITION. THE REQUEST MAY BE REJECTIVE OR CHANGE ORDER. REGARDLESS OF SPECIFIED WARRANTY, BID SHALL INCLUDE VALUE OF INSTALLING ALL WORK COMPLETE. FOR ROOFING MANUFACTURERS REQUIREMENTS FOR A WARRANTY, THE ARCHITECT IS NOT AUTHORIZED DETAIL CHANGES ARE SUBJECT TO REJECTION BY THE OWNER'S REPRESENTATIVE.
- E. REFER TO SUMMARY OF WORK DRAWING SHEET FOR BASIC SCOPE OF WORK, INCLUDING PRESUMED EXISTING ROOF SYSTEM COMPONENTS, QUANTITIES ALLOWANCES FOR UNIT PRICE WORK.
- F. FOR ROOF DESIGN DATA AND ROOF ATTACHMENT REQUIREMENTS, REFER TO THE CORRESPONDING DESIGN DATA AND ATTACHMENT PLAN DRAWING SHEET.
- G. INSTALL TAPERED CURVE TO DIVERT DRAINAGE AROUND ANY PENETRATION OR WIDER MEMBRANE PERPENDICULAR TO SLOPE DIRECTION. CROOKED SLOPE SHALL BE DOUBLE THE FIELD SLOPE.
- H. INSTALL SPECIFIED WALKWAY MATERIAL AT ROOF ACCESS POINTS, INCLUDING LOADERS, ROOF ACCESS DOORS, ACCESS TO ROOF STAIRS, BUT SHALL INCLUDE THESE AREAS AND ANY OTHER AREAS SHOWN OR SPECIFIED.
- I. TRANSITIONS BETWEEN ADJACENT MEMBRANE FLASHING DETAILS SHALL BE CONTINUOUS AND WATER-TIGHT. WATER-TIGHT SEAM DETAIL FLASHING CLOSURES SHALL BE PROVIDED TO FIT OVER THE MEMBRANE AND FLASHING. FLASHING CLOSURES SHALL BE 1/2" GAUGE AND COLOR SHALL MATCH ADJACENT COMPONENTS. STEEL METAL SHALL BE SECURED WITH EPDM WASHERED FASTENERS WITH SEALANT APPLIED AS SPECIFIED.
- J. DETAIL FLASHING CLOSURES OF ROOF FLASHING SHALL BE STEEL METAL TERMINATION DETAIL. TERMINATION BAR IS NOT AN ACCEPTABLE SUBSTITUTION.

- ## KEYED NOTES


1. REMOVE OBSOLETE ROOF PENETRATION AND REPAIR ROOF DECKING PER DRAWINGS AND SPECIFICATIONS.
2. DISCONNECT, RAISE, AND RECONNECT ROOFTOP UNITS AS REQUIRED FOR INSTALLATION OF THE ROOF SYSTEM.
3. INSTALL 1/4" OR 1/2" PER FOOT TAPERED POLYISOCYANURATE INSULATION CRACKED/SADDLE WITH 14" STARTING THICKNESS AT VALLEYS. INSTALL TAPERED EDGE STRIP AT EDGE OF CRACK/ PANEL PER VALLEY DETAIL.
4. REMOVE AND REPLACE PIPE AND CONDUIT SUPPORTS. REFER TO DETAILS 18, 19, 20 and 21R2.04. MAXIMUM SPACING SHALL BE 8' O.C.
5. MODIFY EXISTING SLOPE AS NECESSARY TO CONFORM TO ROOF PLAN.

- ### SYMBOL LEGEND

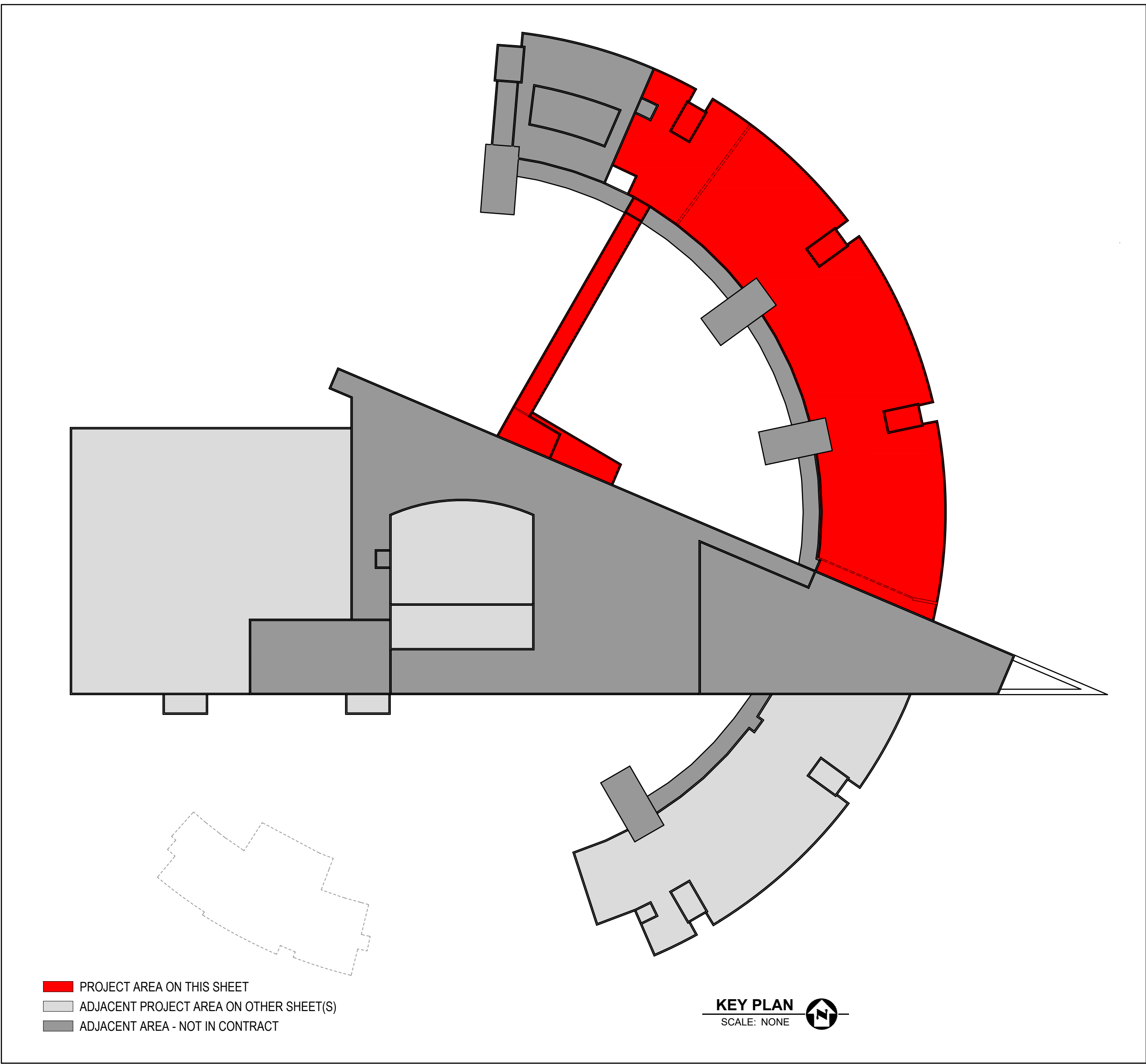
- | | |
|--|--------------------------------------|
| | PARAPET WALL |
| | ROOF EDGE |
| | EXPANSION JOINT |
| | SCUPPER |
| | OVERFLOW SCUPPER |
| | CONDUCTOR HEAD |
| | DOWNSPOUT |
| | PITCH PAN |
| | PIPE PENETRATION |
| | FLANGED PENETRATION |
| | ROOF DRAIN |
| | UNDER DRAIN |
| | ROOF FLUSH |
| | ELEVATED EQUIPMENT |
| | ROOF HATCH |
| | ABSOLUTE PENETRATION |
| | SCREEN WALL |
| | SUPPORT LEGS |
| | CRICKET/STEEPLE |
| | RIDGE/VALLEY LINE |
| | EXISTING STRUCTURAL SLOPE |
| | WALKWAY PROTECTION |
| | SLOPE DIRECTION |
| | SLOPE DIRECTION (STRUCTURAL SLOPE) |
| | SLOPE DIRECTION (TAPERED INSULATION) |
| | ROOF SECTION |
| | DETAIL LOCATION |
| | SYSTEM ASSEMBLY DETAIL LOCATION |
| | KEYED NOTE LOCATION |
| | REVISION NUMBER |
| | ADJACENT PROJECT AREA |
| | ADJACENT AREA - NOT IN CONTRACT |

DRAWING RECORD			
REV. NO.	DESCRIPTION	DATE	BY
NA	BID SET	03/13/22	BQ/PM

NAME	03/10/22
NAME	B. OSBORNE
NAME	R. HESEY
NAME	A. BEAR
NAME	L. STEIN
NAME	21.5315E51.00078005.6mg

 <p>CEDAR RAPIDS, IA • WAUKESHA, WI 800.541.9191 www.benchmarkinc.com</p>	<p>LEE'S SUMMIT R-7 SCHOOL DISTRICT</p> <p>CLIENT:</p> <p>PROJECT:</p> <p>LEE'S SUMMIT WEST HIGH SCHOOL 2600 SW WARD LEE'S SUMMIT, MISSOURI 64082</p> <p>DRAWING TITLE:</p> <p>ROOF PLAN - SECTIONS A, D, E, G, H, I, J, 13</p>
<p>BENCHMARK PROJECT NO. 21LSLSSESUR007B</p> <p>SHEET NUMBER:</p> <p>R101</p>	

File: Lee's Summit R-7 School District - LSS and Summit MO - 21LSLESUR007B - 21LSLESUR007B.dwg Title: R1.02 Date: 10/10/2023 1:28pm



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- THIS DRAWING IS INTENDED FOR ORIENTATION, APPROXIMATE CONFIGURATION, AND LOCATION OF DETAILS AND NOTES. CONTRACTOR SHALL FIELD VERIFY ALL ITEMS FOR BIDDING AND INSTALLATION PURPOSES.
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- IF A GIVEN CONDITION IS NOT REPRESENTED BY A DETAIL DRAWING, AND THE WORK CANNOT BE DEFINED BY REFERRING TO SIMILAR DETAIL, SUBMIT A REQUEST FOR CLARIFICATION TO THE OWNER'S REPRESENTATIVE. PROCEED BASED ON FULLY EXECUTED CHANGE DIRECTIVE OR CHANGE ORDER. REGARDLESS OF SPECIFIED WARRANTY, BID SHALL INCLUDE VALUE OF INSTALLING ALL WORK COMPLETE, PER ROOFING MANUFACTURER'S REQUIREMENTS FOR A 15-YEAR MINIMUM WARRANTY. UNAUTHORIZED DETAIL CHANGES ARE SUBJECT TO REJECTION BY THE OWNER'S REPRESENTATIVE.
- REFER TO SUMMARY OF WORK DRAWING SHEET FOR BASIC SCOPE OF WORK, INCLUDING PRESUMED EXISTING ROOF SYSTEM COMPONENTS, QUANTITY ALLOWANCES FOR UNIT PRICE WORK.
- FOR ROOF DESIGN DATA AND ROOF ATTACHMENT REQUIREMENTS, REFER TO THE CORRESPONDING DESIGN DATA AND ATTACHMENT PLAN DRAWING SHEET.
- INSTALL TAPERED CRICKET TO DIVERT DRAINAGE AROUND ANY PENETRATION 18" OR WIDER MEASURED PERPENDICULAR TO SLOPE DIRECTION. CRICKET SLOPE SHALL BE DOUBLE THE FIELD SLOPE.
- INSTALL SPECIFIED WALKWAY MATERIAL AT ROOF ACCESS POINTS, INCLUDING LADDERS, ROOF HATCHES, DOORS, ACCESS PANELS, AND/OR STAIRS. BID SHALL INCLUDE THESE AREAS, AND ANY OTHER AREAS SHOWN OR SPECIFIED.
- TRANSITIONS BETWEEN ADJACENT MEMBRANE FLASHING DETAILS SHALL BE CONTINUOUS AND WATERTIGHT. WATERTIGHT SHEET METAL FLASHING CLOSURES SHALL BE PROVIDED TO FIT SUBSTRATE AND MEMBRANE FLASHING PROFILES. SHEET METAL TYPE, GAUGE, AND COLOR SHALL MATCH ADJACENT COMPONENTS. SHEET METAL SHALL BE SECURED WITH EPDM WASHERED FASTENERS WITH SEALANT APPLIED AS SPECIFIED.
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- MODIFY EXISTING SLOPE AS NECESSARY TO CONFORM TO ROOF PLAN.

SYMBOL LEGEND

	PARAPET WALL
	ROOF EDGE
	EXPANSION JOINT
	SCUPPER
	OVERFLOW SCUPPER
	CONDUCTOR HEAD
	DOWNSPOUT
	PITCH PAN
	PIPE PENETRATION
	FLANGED PENETRATION
	ROOF DRAIN
	OVERFLOW DRAIN
	ROOF CURB
	ELEVATED UNIT/EQUIPMENT
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	ADJACENT AREA - NOT IN CONTRACT

DRAWING RECORD			
REV. NO.	DESCRIPTION	DATE	BY
NA	RED SET	03/10/22	BOH

	CLIENT:	LEE'S SUMMIT R-7 SCHOOL DISTRICT
	PROJECT:	LEE'S SUMMIT WEST-HIGH SCHOOL
	ADDRESS:	2600 SW WARD
	CITY/STATE/ZIP:	LEE'S SUMMIT, MISSOURI 64082
SHEET NUMBER:		21LSLESUR007B
SHEET NUMBER:		R1.02

PROJECT AREA ON THIS SHEET
ADJACENT PROJECT AREA ON OTHER SHEET(S)
ADJACENT AREA - NOT IN CONTRACT

KEY PLAN
SCALE: NONE

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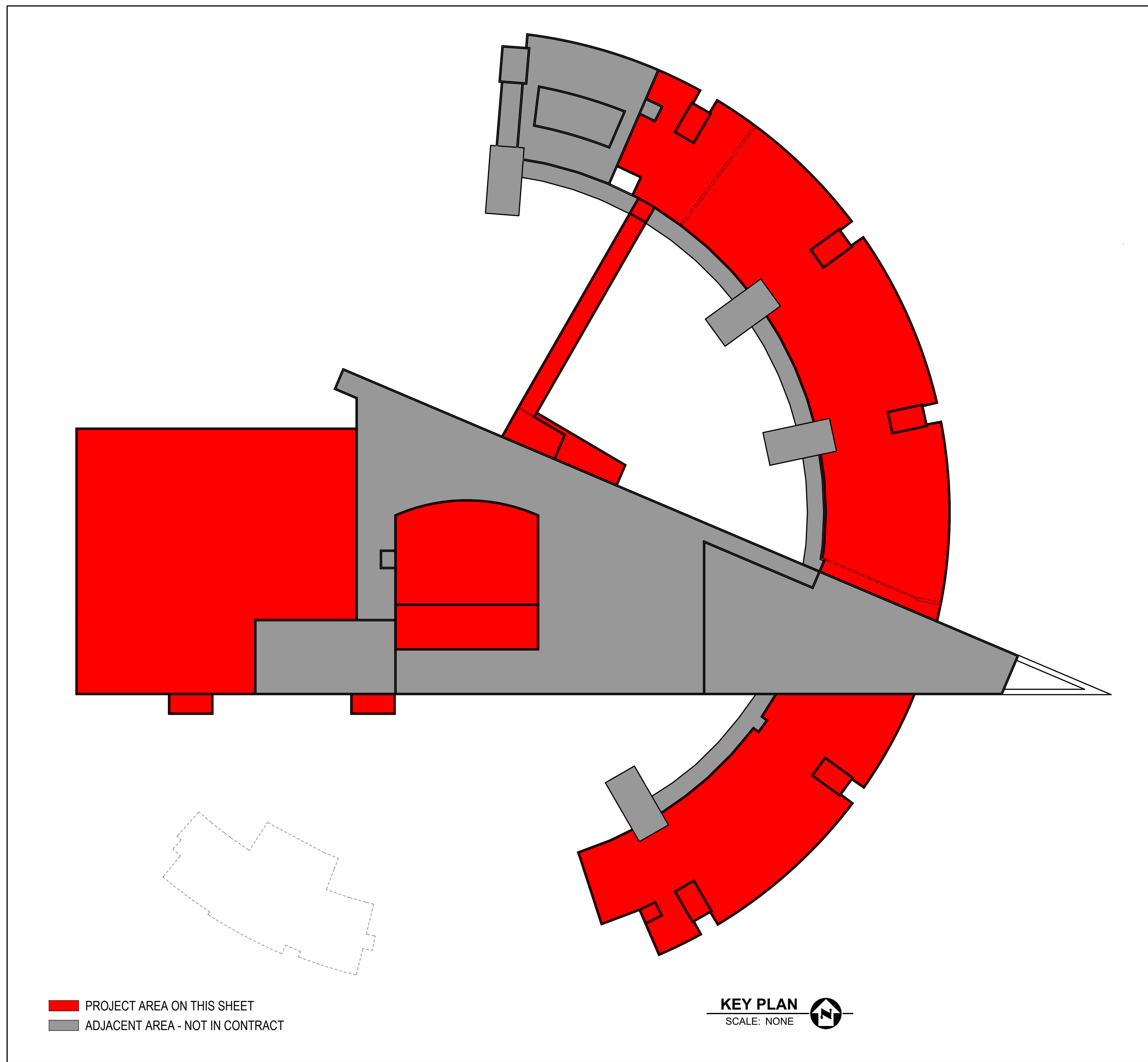
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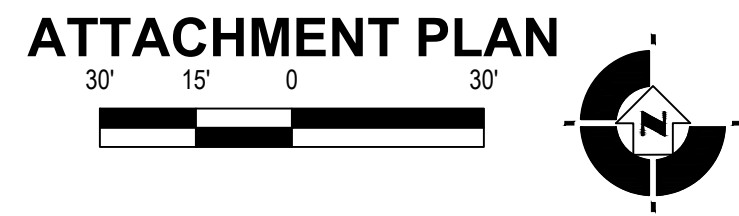
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PROJECT AREA ON THIS SHEET
ADJACENT AREA - NOT IN CONTRACT

KEY PLAN
SCALE: NONE

ATTACHMENT PLAN



ASCE 7-16 ATTACHMENT ZONES

SECTION	ZONE 1*	ZONE 1	ZONE 2	ZONE 3
A	AS SHOWN	AS DIMENSIONED	AS DIMENSIONED	AS DIMENSIONED
D	NOT USED	AS SHOWN	AS DIMENSIONED	NOT USED
E	NOT USED	NOT USED	AS SHOWN	NOT USED
G	NOT USED	NOT USED	AS SHOWN	AS DIMENSIONED
H	NOT USED	NOT USED	AS SHOWN	AS DIMENSIONED
I	AS SHOWN	AS DIMENSIONED	AS DIMENSIONED	AS DIMENSIONED
I1	NOT USED	NOT USED	NOT USED	AS SHOWN
I2	NOT USED	NOT USED	NOT USED	AS SHOWN
I3	NOT USED	NOT USED	NOT USED	AS SHOWN
J	NOT USED	NOT USED	AS SHOWN	NOT USED
K	AS SHOWN	AS DIMENSIONED	AS DIMENSIONED	NOT USED
K1	NOT USED	NOT USED	NOT USED	AS SHOWN
K2	NOT USED	NOT USED	NOT USED	AS SHOWN
L	AS SHOWN	AS DIMENSIONED	AS DIMENSIONED	NOT USED
L1	NOT USED	NOT USED	NOT USED	AS SHOWN
L2	NOT USED	NOT USED	AS SHOWN	NOT USED
Q	NOT USED	NOT USED	AS SHOWN	NOT USED
R	NOT USED	NOT USED	AS SHOWN	NOT USED
S	NOT USED	NOT USED	AS SHOWN	NOT USED

DESIGN DATA

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 PLANS (ON SEPARATE SHEETS) FOR INFORMATION NOT NOTED.
C.	REFER TO DETAIL, S&D (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.	THE COMPLETED ROOF SYSTEM SHALL MEET THE FOLLOWING REQUIREMENTS AT A MINIMUM.
BUILDING CODE:	2018 INTERNATIONAL BUILDING CODE
ENERGY CODE:	2018 INTERNATIONAL ENERGY CONSERVATION CODE
WIND DESIGN STANDARD:	ASCE 7-16
1.03 ROOF SECTION SPECIFIC REQUIREMENTS	
A.	THE COMPLETED ROOF SYSTEM SHALL MEET THE FOLLOWING DESIGN WIND LOAD PRESSURES:
1.	ROOF SECTION E:
ZONE 1*	-39.9 PSF
ZONE 1	-47.8 PSF
ZONE 2	-89.4 PSF
ZONE 3	-121.9 PSF
2.	ROOF SECTIONS - ALL OTHERS:
ZONE 1*	-37.7 PSF
ZONE 1	-45.5 PSF
ZONE 2	-86.4 PSF
ZONE 3	-117.8 PSF
B.	THE INSTALLED COPINGS AND EDGE METAL SHALL COMPLY WITH ANISI/SPRIFM 4470ES-1 STANDARDS AND SHALL MEET THE FOLLOWING DESIGN WIND PRESSURES:
1.	ROOF SECTION E:
ZONE 2 HORIZONTAL	53 PSF
ZONE 3 HORIZONTAL	66 PSF
ZONE 2 VERTICAL	92 PSF
ZONE 3 VERTICAL	136 PSF
2.	ROOF SECTION - ALL OTHERS:
ZONE 1 HORIZONTAL	51 PSF
ZONE 3 HORIZONTAL	64 PSF
ZONE 2 VERTICAL	88 PSF
ZONE 3 VERTICAL	133 PSF
C.	THE COMPLETED ROOF SYSTEM SHALL MEET THE FOLLOWING EXTERNAL FIRE RATING:
1.	ROOF SECTIONS A, B, C, D, E, F, G, H, K, L, M, N AND O:
UL	CLASS A
1.04 PROJECT DESIGN DATA	
A.	WIND DESIGN DATA:
BASIC DESIGN WIND SPEED (V):	115 MPH
ALLOWABLE STRESS DESIGN WIND SPEED (V _{ASD}):	89.1 MPH
SAFETY FACTOR:	2.0
B.	ROOF DRAINAGE:
RAIN INTENSITY (i):	3.6 INCHES/HOUR
MODIFICATIONS TO DRAINAGE:	NO
1.05 ROOF SECTION-SPECIFIC DESIGN DATA	
A.	WIND / LOAD DESIGN DATA:
NOTE: ROOF HEIGHT INFORMATION FURNISHED SHALL NOT BE USED FOR THE PURPOSES OF DETERMINING AND/OR BIDDING CONSTRUCTION LOGISTICS.	
1.	ROOF SECTION E:
RISK CATEGORY:	III
EXPOSURE CATEGORY:	C
INTERNAL PRESSURE COEFFICIENT:	1.01
MEAN ROOF HEIGHT:	40 FEET
ROOF SLOPE:	1/4" IN 12"
APPROXIMATE EXISTING ROOF SYSTEM WEIGHT:	8 PSF
APPROXIMATE NEW ROOF SYSTEM WEIGHT:	5 PSF
APPROXIMATE CHANGE IN ROOF SYSTEM WEIGHT:	25 % DECREASE
APPROXIMATE NET CHANGE IN ROOF SYSTEM WEIGHT:	3 PSF DECREASE
2.	ROOF SECTIONS - OTHER THAN E:
RISK CATEGORY:	III
EXPOSURE CATEGORY:	C
INTERNAL PRESSURE COEFFICIENT:	1.01
MEAN ROOF HEIGHT:	30 FEET
ROOF SLOPE:	1/4" IN 12"
APPROXIMATE EXISTING ROOF SYSTEM WEIGHT:	8 PSF
APPROXIMATE NEW ROOF SYSTEM WEIGHT:	5 PSF
APPROXIMATE CHANGE IN ROOF SYSTEM WEIGHT:	25 % DECREASE
APPROXIMATE NET CHANGE IN ROOF SYSTEM WEIGHT:	3 PSF DECREASE

SYMBOL LEGEND

PARAPET WALL	ROOF EDGE
EXPANSION JOINT	SCUPPER
OVERFLOW SCUPPER	CONDUCTOR HEAD
DOWNSPOUT	PITCH PAN
PVC PENETRATION	FLANGED PENETRATION
ROOF DRAIN	OVERFLOW DRAIN
ROOF CURB	ELEVATED UNITEQUIPMENT
ROOF HATCH	OBsolete PENETRATION
SCREEN WALL	SUPPORT LEGS
CRICKET/SADDLE	RIDGE/VALLEY LINE
EXISTING STRUCTURAL SLOPE	WALKWAY PROTECTION
SLOPE DIRECTION (TAPERED INSULATION)	ADJACENT AREA - NOT IN CONTRACT

DRAWING RECORD			
REV. NO.	DESCRIPTION	DATE	BY
NA	RED SET	03/10/22	BOH

PROJECT:	LEE'S SUMMIT WEST-HIGH SCHOOL
CLIENT:	2600 SW WARD
DESIGNER:	LEE'S SUMMIT, MISSOURI 64082
DRAWN BY:	L. STEIN
CHECKED BY:	L. STEIN
DATE:	03/10/22
SCALE:	21LSSLESUR007B.dwg

BENCHMARK INC. CEDAR RAPIDS, IA 52409 www.benchmark-inc.com	
PROJECT: LEE'S SUMMIT WEST-HIGH SCHOOL 2600 SW WARD LEE'S SUMMIT, MISSOURI 64082	
CLIENT: 21LSSLESUR007B	
SHEET NUMBER: R1.03	

ORIGINAL SHEET SIZE: 48" x 36"