BASALT REGIONAL LIBRARY ROOF REPLACEMENT

PLOTTED BY: Schuman, Brad (9/20/2023 - 11:38 AM) LAST SAVED BY: MFRYDM (9/20/2023 - 8:03 AM) FILE LOCATION: P:/2022/2022 7xxx/2022.7310.0 - BA)

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PROJECT LOCATION:

BASALT REGIONAL LIBRARY

14 Midland Avenue Basalt, Colorado 81621

CLIENT:

Basalt Regional Library

14 Midland Avenue Basalt, Colorado 81621

CONTACT INFORMATION: Amy Shipley - Executive Director

CONSULTING ENGINEER:

WISS, JANNEY, ELSTNER ASSOCIATES, INC.

3609 South Wadsworth Boulevard, Suite 400 Lakewood, Colorado 80235 303.917.4300 tel

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	BASALT REGIONAL LIBRARY ROOF REPLACEMENT 14 Midland Avenue Basalt, Colorado 81621
	Basalt Regional Library District 14 Midland Avenue Basalt, Colorado 81621
	No. DATE DESCRIPTION Image: I
H	WJE PROJECT No.: 2022,7310,0
	ISSUE DATE: SEPTEMBER 22, 2023

DRAWING SHEET INDEX

No.	SHEET TITLE				
R100	COVER SHEET & INDEX				
R101	PROJECT GENERAL NOTES				
R200	OVERALL ROOF PLAN				
R201	DEMOLITION PLAN				
R202	UPLIFT PLAN				
R203	ROOF PLAN				
R300	TYPICAL ROOF DETAILS				
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R302	REFERENCE PHOTOS				
R400	STANDARD ROOF DETAILS				

COVER SHEET & INDEX

MMT

KMH/BRS/CRS

R100

AS NOTED

SHEET No

REVIEWED BY:

DRAWN BY

SCALE

SCOPE OF WORK

1. SCOPE OF WORK IS LOCATED IN PROJECT MANUAL SECTION 01 11 00 - SUMMARY OF WORK GENERAL

- 1. THE SCOPE OF WORK IS A TURNKEY CONTRACT INCLUDING TAXES, INSURANCE, PERMITS, FEES, LICENSES, AND BONDS REQUIRED FOR COMPLIANCE WITH LOCAL, STATE, AND FEDERAL LAWS, STATUTES, AND ORDINANCES.
- 2. THESE PROJECT NOTES APPLY UNLESS OTHERWISE SPECIFICALLY NOTED ON PLANS AND DETAILS. VERIFY DIMENSIONS PRIOR TO BIDDING THE PROJECT AND COORDINATE PLANS AND DETAILS WITH ACTUAL FIELD CONDITIONS BEFORE STARTING WORK. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION, FABRICATION, CONSTRUCTION, WORKMANSHIP, AND MATERIALS SHALL COMPLY WITH THE LATEST EDITION OF THE APPLICABLE BUILDING AND PLUMBING CODE, OR OTHER LOCAL APPLICABLE CODE, WHICHEVER IS THE MORE STRINGENT.
- 3. ALL ROOF SYSTEMS ARE DESIGNED UNDER THE ADOPTED 2021 INTERNATION EXISTING BUILDING CODE AND SHALL COMPLY WITH ALL TOWN OF BASALT ADOPTED 2021 BUILDING CODES AND AMENDMENTS.
- 4. WORK COVERED IN THESE PLANS INCLUDES ALL PIECES, PARTS, FEATURES, COMPONENTS, AND TECHNIQUES FOR A COMPLETE ASSEMBLY NORMALLY ASSOCIATED WITH WORK OF THE TYPE BEING CONSTRUCTED, WHETHER OR NOT SUCH PIECES, PARTS, AND COMPONENTS ARE SHOWN ON THE PLANS AND DETAILS.
- THE SCOPE OF WORK COVERED UNDER THIS PROJECT INCLUDES, BUT IS NOT LIMITED TO, THE COST OF HOISTING, SCAFFOLD, PEDESTRIAN PROTECTION, STORAGE, DEMOLITION, DISPOSAL, MASONRY, CARPENTRY, LUMBER, MECHANICAL, ELECTRICAL, AND PLUMBING.
- 6. CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS, AND SCHEDULING WORK, INCLUDING COORDINATING THE SEQUENCE. THIS SCOPE OF WORK IS NOT INTENDED TO IMPLY A SEQUENCE.
- SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR, AND THE CONTRACTOR SHALL CONDUCT WORK IN FULL AND COMPLETE ACCORDANCE WITH FEDERAL, STATE, AND LOCAL STATUTES, LAWS, AND ORDINANCES, INCLUDING, BUT NOT LIMITED TO, OSHA AND EPA.
- 8. COMPLY WITH OWNER REQUIREMENTS REGARDING SCHEDULING CONSTRAINTS FOR OWNER CONVENIENCE. PROVIDE A CONSTRUCTION SCHEDULE TO THE OWNER AND A/E A MINIMUM OF TWO WEEKS PRIOR TO START OF WORK. PROVIDE A STAGING AND ROOF ACCESS PLAN TO OWNER TWO WEEKS BEFORE WORK BEGINS.
- 9. INCLUDE WITH THE SUBMITTALS A PROJECT-SPECIFIC SCHEDULE FOR TIMES WHEN MECHANICAL UNITS WILL BE OUT OF SERVICE.
- 10. REMOVE ROOFING DEBRIS FROM ROOF DAILY.
- 11. KEEP GROUNDS AND ROOF CLEAN, NEAT, AND FREE OF DEBRIS AND TRASH AT ALL TIMES DURING CONSTRUCTION.

STORAGE

PREPARATION

- 12. ROOFING MATERIALS SUSCEPTIBLE TO MOISTURE DAMAGE INCLUDING, BUT NOT LIMITED TO, ROLLED GOODS, INSULATION AND LUMBER, MUST BE STORED IN ENCLOSED STORAGE CONTAINERS ON SITE. NO OVERNIGHT ROOFTOP STORAGE OF THESE MATERIALS IS PERMITTED.
- 13. TRANSPORT TO THE ROOF ONLY THE AMOUNT AND QUANTITIES OF MATERIAL USABLE IN ONE DAY'S PRODUCTION. AT THE END OF THE DAY, REMOVE UNUSED MATERIALS FROM THE ROOF.
- 14. PROVIDE AND INSTALL WHERE AGREED UPON FROM STAGING PLAN WITH FENCING TO DEMARK CONTRACTOR'S STAGING AREA.
- 15. INSTALL A FULLY ENCLOSED AND SUPPORTED DEBRIS REMOVAL CHUTE EXTENDING FROM THE ROOF TO THE GROUND OR DEBRIS CONTAINER IN A LOCATION DESIGNATED BY THE OWNER. AND MAINTAIN THE SAFE USE OF SUCH CHUTE FOR THE DURATION OF THE JOB. DO NOT THROW ROOFING DEBRIS FROM BUILDING ROOF
- 16. INSTALL FULLY ENCLOSED SCAFFOLD STAIRWAY ACCESS TO ROOF IN THE AREA DESIGNATED BY THE OWNER WHEREVER ROOF HEIGHT EQUALS OR EXCEEDS 20 FEET FROM THE GROUND OR ADJACENT ACCESSIBLE ROOF.
- PROTECTION
- 17. PROTECT BUILDING INTERIOR FROM LEAKAGE BY NOT TEARING OFF MORE ROOFING THAN CAN BE REPLACED THE SAME DAY IN A WATERTIGHT CONDITION. DO NOT ALLOW ROOFS TO BE OPEN OVERNIGHT 18. MAINTAIN DAILY WATER CUTOFFS TO PREVENT WATER MIGRATION BENEATH ROOFING SYSTEM. ROOF MEMBRANE MUST BE FULLY ADHERED OR HEAT WELDED TO ENSURE A WATERTIGHT SEAL. TEMPORARY SEALS WITH TAPE OR SEALANT ARE UNACCEPTABLE FOR OVERNIGHT WATER CUTOFFS.
- 19. BY ALL NECESSARY MEANS, PROTECT ROOF COMPONENTS AND ASSEMBLIES FROM DAMAGE AND CONTAMINATION BY OTHER TRADES.
- 20. PROTECT NEW AND EXISTING SURFACES INCLUDING EQUIPMENT FLANGES. CURBS. CONDUITS. PIPES. WINDOWS, AND WALLS FROM ASPHALT, CLEAN ALL RESIDUAL ASPHALT AND MASTIC FROM SUCH SURFACES AT THE COMPLETION OF THE JOB. PAINTING TO COVER ASPHALT IS NOT ACCEPTABLE.
- 21. PROTECT SKYLIGHTS WITH PLYWOOD DURING CONSTRUCTION TO AVOID BREAKAGE. PROVIDE GUARDRAILS OR OTHER MEANS TO MITIGATE FALL HAZARDS.
- 22. CLEAN BUILDING, GROUNDS, AND ANY SURROUNDING STRUCTURES. SWEEP THE WORK AREA WITH A MAGNET TO PICKUP METAL SCRAPS, NAIL, AND SCREWS.
- DEMOLITION SINGLE PLY ROOFING
- 23. TEAR OFF SINGLE-PLY MEMBRANE AND COVER BOARD ONLY AND REMOVE FROM JOBSITE.
- 24. REMOVE ROOFING DEBRIS FROM ROOF DAILY.
- 25. RAISE MECHANICAL EQUIPMENT AND PROVIDE CURBS AROUND PENETRATIONS REQUIRED TO PROVIDE A MINIMUM CURB HEIGHT OF 12 INCHES ABOVE THE PLANE OF THE NEW FINISHED ROOF. EXTEND PIPING, INSULATION, CONDUIT, WIRING, DUCTS, ETC. AS NEEDED TO RECONNECT RAISED EQUIPMENT.
- 26. PROTECT CONTIGUOUS ROOF AREAS FROM DEBRIS, DAMAGE, DISCOLORATION, AND OTHER AFFECTS OF ROOF DEMOLITION AND REROOFING, AND DO NOT USE ANY ROOF AS A WORK SURFACE. PROTECT ROOF AREAS SURROUNDING MECHANICAL FOUIPMENT WITH PLYWOOD DURING ANY AND ALL MECHANICAL WORK
- 27. PROVIDE PLATFORMS FOR MISCELLANEOUS ROOF-TOP ITEMS (ANTENNA, PHOTO CELLS, AND SATELLITE DISHES). ONLY PLUMBING VENTS DO NOT REQUIRE CURBS AND SHALL BE FLASHED INTO THE ROOFING MEMBRANE WITH LEAD FLASHING.
- 28. RAISE CONDUIT, GAS PIPING, AND CONDENSATION PIPING 12 INCHES ABOVE NEW FINISHED ROOF, AND SUPPORT ON PORTABLE PIPE HANGERS WITH U.V. RESISTANT BASES AT LEAST AS WIDE AS THE SUPPORT IS TALL. MAINTAIN SLOPE IN CONDENSATE DRAIN PIPING FOR DURATION OF PROJECT SO CONDENSATE DOES NOT BACKFLOW INTO BUILDING.
- 29. SUPPORT PIPES AND CONDUITS OF ANY TYPE ON NEW PIPE SUPPORTS WITH U.V. RESISTANT BASES AT LEAST AS WIDE AS THE SUPPORT IS TALL. INSTALL PIPE SUPPORTS AT INTERVALS NOT TO EXCEED 10 FEET & ONE FOOT AWAY IN BOTH DIRECTIONS FROM BENDS. WOOD, PLASTIC, OR FOAM BLOCKING IS NOT ACCEPTABLE. CLUSTER PIPES AND CONDUITS IN SUCH A MANNER AS TO MINIMIZE THE NUMBER OF PIPE SUPPORTS.
- 30. EXTEND PIPING AND CONDUIT OF ANY TYPE A MINIMUM OF 12" ABOVE THE PLANE OF THE FINISHED ROOF BEFORE MAKING A 95° BEND. PROVIDE CONDUIT AND PIPING WITH A DRIP LOOP OR SLOPE AWAY FROM THE OPENING.
- 31. ALL MECHANICAL AND MISCELLANEOUS EQUIPMENT SET ON PLATFORMS MUST BE SECURED TO UNISTRUT FRAME AS SHOWN IN THE DRAWINGS.
- 32. PROVIDE ELECTRICAL DISCONNECTS AS INDICATED IN THE ELECTRICAL DISCONNECT MOUNTING DETAIL.
- 33. CONSTRUCT ROOFTOP EQUIPMENT MOUNTINGS, FLASHINGS, WOOD CURBS, AND MECHANICAL CURBS AS DETAILED BY THE NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA), AND PROVIDE VERTICAL AND HORIZONTAL CLEARANCES AS INDICATED BY NRCA UNLESS OTHERWISE STIPULATED IN THE PLANS AND DETAILS. EXTEND CURBS A MINIMUM OF 12" ABOVE THE PLANE OF THE FINISHED ROOF.
- 34. ROOFTOP EQUIPMENT CANNOT BE ITS OWN COUNTER FLASHING. MECHANICAL EQUIPMENT CURBS MUST HAVE A TWO-PIECE COUNTER FLASHING AND RECEIVER IN ADDITION TO THE MECHANICAL EQUIPMENT FLANGE.

BLOCKING

- 35. WIND UPLIFT REQUIREMENTS: CONSTRUCTION OF ANY TYPE, INCLUDING FASTENING AND ATTACHMENT OF WOOD BLOCKING, NAILERS, STEEL ANGLES, DECKING, AND SHEET METAL SHALL BE IN ACCORDANCE WITH THE WIND UPLIFT REQUIREMENTS AS SHOWN ON 2/R202.
- 36. WOOD BLOCKING AND LUMBER, EXCEPT PLYWOOD, SHALL BE KILN-DRIED (KD). SCREW, DO NOT NAIL LUMBER AND WOOD BLOCKING, STAGGER JOINTS FROM CONTIGUOUS PIECES, PROVIDE PARAPETS AND OTHER WALLS RECEIVING COPING FASCIAE A 1/2" PER FOOT MINIMUM BEVELED OR SLOPED KD WOOD SURFACE AT THE TOP TO DRAIN PROPERLY AND TOWARD THE ROOF SIDE OF THE BUILDING, NOT THE EXTERIOR WALL.
- 37. FASTENERS PENETRATING OR COMING INTO CONTACT WITH LUMBER SHALL BE STAINLESS STEEL UNLESS OTHERWISE STIPULATED HEREIN.
- 38. INSTALL SECONDARY SELF-ADHERED HIGH TEMPRATURE MEMBRANE AT EDGE NAILERS AND COVER WOOD BLOCKING IN THEIR ENTIRITY.
- 39. FURNISH AND INSTALL PLYWOOD IN ACCORDANCE WITH THE WRITTEN SPECIFICATIONS OF THE AMERICAN PLYWOOD ASSOCIATION (APA)

- 40. STAGGER THE JOINTS OF WOOD BLOCKING OR LUMBER A MINIMUM OF 24 INCHES, NOT NAIL
- 41. SECURE WOOD BLOCKING AND NAILERS AT ROOF EDGES AND COPINGS TO RESIST WOOD DECK: TWO ROWS OF 2-1/2"#10 HOT-DIPPED GALVANIZED STEEL SCREWS AT MAXIMUM. PROVIDE A 5/8" STAINLESS STEEL WASHER UNDER SCREW HEADS WHER PARALLEL TO DECK FLUTES.
- 42. SECURE WOOD BLOCKING AND NAILERS AT ROOF EDGES AND COPINGS TO RESIST BRICK: 1/2" HILTI HLC SLEEVE ANCHOR BOLT SPACED FOUR FEET O.C. MAXIMUM, ST. SPACED TWO FEET, MAXIMUM, FOR 8'-0" FROM OUTSIDE BUILDING CORNERS.
- 43. REPLACE DAMAGED, ROTTEN OR MISSING LUMBER, NAILERS, AND WOOD BLOCKING AND INSTALL NEW KD WOOD BLOCKING TO ACCOMMODATE NEW INSULATION THICK
- 44. SET BLOCKING 1/4" BELOW COVER BOARD AT EDGES THAT DRAIN.

FLASHINGS

- 45. INSTALL NEW FLASHING, CURBS, AND PENETRATIONS WHERE POSSIBLE FLASHINGS PENETRATIONS AS SPECIFIED.
- 46. SHEET METAL WORK SHALL COMPLY WITH SMACNA AND ANSI/SPRI ES-1, WHETHER AND DETAILS OR NOT.
- 47. CONSTRUCT IN-PLACE MOCK-UPS OF SHEET METAL FASCIAE, EDGES, COPINGS, EXE GRAVEL GUARDS, GUTTERS, DOWNSPOUTS, ETC. FOR APPROVAL PRIOR TO PROCE FABRICATION OF THE SHEET METAL COMPONENTS.
- 48. USE ONLY USE ONLY COPPER OR BRASS SCREWS WITH BONDED NEOPRENE WASH FLASHING AND COUNTER FLASHING.
- 49. ATTACH SHEET METAL EDGING, GRAVEL GUARD, FASCIAE, AND COPING ON CONTIN GAUGES HEAVIER THAN THE MATERIAL BEING ATTACHED. FASTEN CLEATS AT 6" O.C METAL FROM LUMBER WITH SECONDARY WATERPROOFING MEMBRANE. INSTALL A WATERPROOFING MEMBRANE BENEATH THE FASCIAE AND COPING METAL COVERI OR FASCIA SPAN. STAGGER CLEAT JOINTS FROM JOINTS IN ATTACHED COMPONEN COVER PLATES AT JOINTS IN METAL EDGING, GRAVEL GUARD, AND FASCIAE. JOINT COPING. AND EXPANSION JOINTS SHALL HAVE STANDING SEAM LOCK AT JOINTS UN STIPULATED ELSEWHERE. HEM EXPOSED SHEET METAL EDGES.
- 50. NO SINGLE SHEET METAL FASCIA SECURED WITH A CLEAT MAY BE TALLER THAN 6 | REQUIRED HEIGHT OF THE DETAIL IS GREATER THAN 6 INCHES THE FASCIA MUST PIECES OF APPROXIMATELY EQUIVALENT HEIGHTS WITH EACH SECTION FASTENED CLEAT TWO FULL GAUGES HEAVIER THAN THE FASCIA ITSELF. THAT IS TO SAY FABRICATE AND INSTALL A 10-INCH TALL FASCIA IN APPROXIMATELY FOULVALENT HEIGHTS OF 5 INCHES FACH, NOT ONE 6-INCH AND ONE 4-INCH PIECE APPLY A SECONDARY BARRIER OF SELF-ADHERING WATERPROOFING MATERIAL AS SPECIFIED AS UNDERLAYMENT BENEATH EACH SECTION OF FASCIA.
- 51. SUPPORT METAL FLASHINGS AND SCUPPERS WITH WOOD BLOCKING THE SAME THICKNESS AS THE INSULATION, IF ANY. EXTEND WOOD BLOCKING A MINIMUM OF 1-1/2" PAST THE METAL FLANGE OF THE FLASHING.
- 52. PITCH PANS ARE NOT PERMITTED. REPLACE PITCH PANS WITH HOODED, CURBED PENETRATIONS (9 OR 10/R401).
- 53. EXTEND EACH LEG OF SHEET METAL COMPONENT CORNERS, INTERSECTIONS, AND TERMINATIONS 18 INCHES IN EACH DIRECTION FROM THE INSIDE CORNER, AND FABRICATE AS A SINGLE UNIT PIECE. RIVET LAPS AND SOLDER JOINTS, EXCEPT IN THE CASE OF PRE-FINISHED METAL USE SEALANT IN BETWEEN LAPS IN LIEU OF SOLDER.
- 54. PRIME SHEET METAL RECEIVING ELASTOMERIC SEALANT AS REQUIRED IN THE MANUFACTURER'S PRINTED SPECIFICATIONS. MATCH SEALANT COLORS TO THE MATERIAL TO WHICH IT IS APPLIED. ROOF DRAINAGE
- 55. PLUG ROOF DRAINS DURING DAILY CONSTRUCTION TO PREVENT DEBRIS FROM FALLING INTO DRAINS. REMOVE STOPS OR BLOCKAGE PRIOR TO RAIN AND AT THE END OF THE DAY TO PERMIT FREE FLOW OF
- 56. IDENTIFY BLOCKAGE AND RESTRICTIONS IN EXISTING ROOF DRAIN PIPING USING A PIPE INSPECTION CAMERA OR OTHER MEANS ACCEPTABLE TO THE ARCHITECT/ENGINEER. REMOVE ASPHALT, PITCH AND OTHER MATERIALS THAT REDUCE THE EFFECTIVE AREA OF EXISTING DRAIN AND DRAIN PIPING OR REPLACE AFFECTED DRAIN AND AFFECTED PORTION OF DRAIN PIPING.
- 57. KEEP ALL EXISTING DRAIN BODIES AND ADJUST HEIGHT AS NEEDED TO MATCH NEW ROOFING HEIGHTS. ONLY REPLACE CLAMPING RINGS AND STAINERS, AS NEEDED.
- 58. SALVAGE ALL GUTTER AND DOWNSPOUTS TO BE REINSTALLED.
- 59. FLOOD TEST AFFECTED PRIMARY AND OVERFLOW ROOF DRAINS TO DETECT LEAKS AT ROOF. CONDUCT TESTS IN THE PRESENCE OF FIELD OBSERVER OR, IF SO DIRECTED BY THE FIELD OBSERVER, PROVIDE DOCUMENTATION OF FLOOD TESTS. AFFECTED DRAINS MUST PASS.
- 60. TAPER THE INSULATION OR DECK TO CREATE A 4-FOOT SQUARE SUMP CENTERED ON PRIMARY ROOI DRAINS. SLOPE THE SUMP 1/2 INCH PER FOOT. THE BOTTOM OF THE SUMP SHOULD BE 1 INCH BELOW THE EDGE OF THE SUMP. ADJUST HEIGHT OF PRIMARY DRAIN TO ALIGN WITH BOTTOM OF SUMP. **INSULATION - TAPERED ISO**

TPO ROOFS.

DRAINS.

- 61. CLEAN TRASH, DEBRIS, AND ROOFING MATERIALS FROM FROM EXISTING ISO INSULATION SURFACE. PREPARE IN ACCORDANCE WITH LOW-RISE FOAM ADHESIVE MANUFACTURER'S WRITTEN INSTRUCTIONS. 62. ADHERE ONE NEW LAYER OF TAPERED HIGH DENSITY IISOCYANUARATE INSULATION AND 5/8 INCH COVER
- BOARD WITH LOW RISE FOAM ADHESIVE. SLOPE 1/4 INCH TO DRAINS. 63. INSTALL CRICKETS MADE OF TAPERED INSULATION AT THE HIGH SIDE OF CURBS GREATER THAN 24 INCHES IN WIDTH, AND BETWEEN ROOF DRAINS, WHETHER SHOWN ON THE PLANS OR NOT.
- MISCELLANEOUS
- 64. SHUTDOWNS OF MECHANICAL OR ELECTRICAL EQUIPMENT MUST BE COORDINATED WITH OWNER AT LEAST ONE WEEK IN ADVANCE 65. INSTALL WALKWAY PROTECTION MATERIAL AS INDICATED ON DRAWINGS. WALKWAY PROTECTION TO BE
- FULLY ADHERED TO THE DEGRANULATED SURFACE. 66. INSTALL ROOF WARRANTY SIGNS AT LOCATIONS CHOSEN BY THE OWNER ON EACH ROOF SECTION.
- 67. CLEAN AND PAINT GAS LINES YELLOW ONLY ON ROOF AREAS IN THE SCOPE OF WORK.
- 68. PROVIDE TWO-YEAR CONTRACTOR'S GUARANTEE AND 20-YEAR NDL MANUFACTURER'S WARRANTY FOR
- 69. PROVIDE A STAGING, PEDESTRIAN PROTECTION AND ACCESS PLAN TO THE OWNER AND ARCHITECT FOR APPROVAL PRIOR TO MOBILIZATION.

- 11:38 A 8:03 AM) .7310.0 chuman, Brad (9/2 : MFRYDM (9/20) P:\2022\/2077 7√ PLOTTED BY: Sch LAST SAVED BY: FILE LOCATION: F

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TWIND UPLIFT. AT I TWO FEET O.C., RE WOOD BLOCKING IS	DRAWING LABE
WIND UPLIFT. AT TAGGERED EXCEPT	# X#.#
G WITH KD LUMBER, KNESS.	# X#.#
S, CURBS, AND	# X#.#
R SHOWN ON THE PLANS	
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IERS TO SECURE	T.O. LEVEL-1 EL.= XX.XX'
NUOUS CLEATS TWO C. SEPARATE SHEET SECONDARY NG THE FULL COPING ITS. USE BACK-UP AND S IN PARAPET CAPS,	~~~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
NLESS OTHERWISE	A — — A
INCHES. WHEN THE BE MADE IN MULTIPLE O WITH A CONTINUOUS	0 1' 2' 5' 10

NORTH ASALT REGIONAL LIBRARY 14 Midland Avenue Basalt, Colorado 81621

PROJECT VICINITY MAP - NOT TO SCALE

- NORTH ARROW

		PR	OJECT	ABBREVIATIONS
•	PLAN / DETAIL NAME LABEL	& AD AD AR	D'L CH.	AND AREA DIVIDER ADDITIONAL(LY) ARCHITECT
•	ELEVATION CALLOUT	AR BL CC DI/ (F)	.CH'L. D INT. A.	ARCHITECTURAL BUILDING CONTINUOUS DIAMETER EXISTING
•	SECTION CALLOUT	EA EP EQ EJ	DM UIV.	EACH ETHYLENE PROPYLENE DIENE MONOMER EQUIVALENT EXPANSION JOINT
•	DETAIL / VIEW CALLOUT	FM FT F.V GA	۱ ۲.	FACTOR MUTUAL FEET FIELD VERIFY GAUGE
•	KEYED NOTE / OBSERVATION	GA HC HT INT	LV. iriz.	GALVANIZED HORIZONTAL HEIGHT INTERIOR
•	ELEVATION MARKER	LW MA MB MF	,X. R. R.	LIGHT WEIGHT MAXIMUM MEMBER MANUFACTURER
•	CHANGE IN ELEVATION	MII MI (N)	v. - 'H S	ONE-THOUSANDTH OF AN INCH MILES PER HOUR NEW NOT TO SCALE
•	DRAWING MATCHLINE	0.0 PO PV RE). Lyiso C	ON CENTER POLYISOCYANURATE POLYVINYL CHLORIDE REFER TO
•	GRAPHICAL PLAN SCALE	RE RE SIN S.S	F. Q'D // S.	REFERENCE REQUIRED SIMILAR STAINLESS STEEL
•	STRUCTURAL GRIDLINE	TY U.C VE W/	KM P.).N. RT.	TYPICAL UNLESS OTHERWISE NOTED VERTICAL WITH



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MECHANICAL ROOF AREA (NOT IN SCOPE) \leq PROPOSED STAGGING AREA FOR CONTRACTOR. CONFIRM FINAL AREA WITH OWNER.

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1 OVERALL ROOF PLAN AND SITE PLAN SCALE: 1/16" = 1'-0"

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WJE ENGINEERS ARCHITECTS MATERIALS SCIENTISTS
Wiss, Janney, Elstner Associates, Inc. 3609 South Wadsworth Boulevard, Suite 400 Lakewood, Colorado 80235 303.917.4300 tel
www.wje.com Headquarters & Laboratories: Northbrook, Illinois Atlanta Austin Boston Chicago Cleveland Dallas Denver Detroit Doylestown Honolulu Houston Indianapolis London Los Angeles Minneapolis New Haven Northbrook (HQ) New York Philadelphia Pittsburgh Portland Princeton Raleigh San Antonio San Diego San Francisco Seattle South Florida Washington, DC
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14 Midland Avenue Basalt, Colorado 81621
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PROJECT MANAGER: CLM REVIEWED BY: MMT
DRAWN BY: KMH/BRS/CRS
SUALE: AS NOTED
OVERALL ROOF PLAN
R200

SHEET No.:



BUILDING AND ROOF AREA INPUT DATA

ROOF SYSTEM WIND RESISTANT ZONES

ZONE

1

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3

ROOF SYSTEM SHALL BE A TESTED ASSEMBLY THAT MEETS

OR EXCEEDS THE DESIGN UPLIFT PRESSURES PROVIDED. 2. THE DESIGN UPLIFT PRESSURES IN THE TABLE ABOVE ARE

SERVICE LEVEL PRESSURES WITH A 2.0 SAFETY FACTOR

MEMBRANE ROOF ASSEMBLY SHALL BE MINIMUM FM I-90.

FOR THE LISTED MEMBRANE ROOF TYPES.

ELEVATION 6,600 FT. ABOVE SEA LEVEL.

4. GROUND ELEVATION PROVISIONS APPLY: GROUND

DESIGN UPLIFT

PRESSURE (PSF)

49

64

87

38

46

79

FM EQUIV.

ROOF SLOPE: BETWEEN FLAT AND 4.5:12 OR LESS EXPOSURE CATEGORY: C RISK CATEGORY: II BASIC WIND SPEED: 115 MPH Vult

2 $\begin{pmatrix} 1 \end{pmatrix}$ FM I-90 FM I-90 FM I-90 10'-7½" 25'-0" FM I-90 (2.6) FM I-90 FM I-90 9'-8" (B)-(c)-(D)-______ _5'-0" (D.7)-TYP (E) (E.3)-(F)-20'-0" TYP G (G.7) =Н H.5 (H.6) 30'-11½" (2.9) (1)

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NOTES:

ROOF AREA

FLAT

MONOSLOPE

1

3.

TYPE

MEMBRANE

MEMBRANE

1

2



5





8	
REPAIR LEGEND: INSTALL NEW HIGH DENSITY ISO COVER BOARD AND TPO MEMBRANE. INSTALL NEW PARAPET CAP COATED METAL FLASHING. ADD ALTERNATE #1: IN LIEU OF TPO, INSTALL NEW COATED ALUMINUM STANDING SEAM ROOF. PV TO ATTACH TO NEW STANDING SEAM ROOF WITH SEAM	<text><text><text><text></text></text></text></text>
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EXTEND BEYOND INTERSECTION 3'-0" MIN. IN EA

TO EA SIDE OF WALL WITH SCREWS WITH APPROVED BY OWNER)

, 4) <u>SCALE: N.T.S.</u>

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7



VIEW OF SCUPPER AND LOW PARAPET







8 PV UPPER ROOF SLEEPERS & SUPPORTS N.T.S.



2





3

1



10 VIEW OF STANDING SEAM ROOF





7 PV ARRAY UPPER ROOF

6 ELECTRICAL BOXES FOR PV

5

6

7

4

9 TYPICAL PARAPET FLASHING N.T.S.

5 ELECTRICAL UNISTRUT CONNECTION N.T.S.

ENGINEERS ARCHITECTS MATERIALS SCIENTISTS Wiss, Janney, Elstner Associates, Inc. 3609 South Wadsworth Boulevard, Suite 400 Lakewood, Colorado 80235 303.917.4300 tel www.wje.com Headquarters & Laboratories: Northbrook, Illinois Atlanta | Austin | Boston | Chicago | Cleveland | Dallas | Denver | Detroit Doylestown | Honolulu | Houston | Indianapolis | London | Los Angeles Minneapolis | New Haven | Northbrook (HQ) | New York | Philadelphia | Pittsburgh Portland | Princeton | Raleigh | San Antonio | San Diego | San Francisco | Seattle South Florida | Washington, DC SEAL: THIS DOCUMENT IS RELEASED FOR CONSTRUCTION UNDER THE AUTHORITY OF: CHRISTOPHER LEE MCINNIS, A.I.A. (COLORADO REGISTRATION No. 00406230) JUNE 23, 2022 BID SET NOT FOR CONSTRUCTION PROJECT: **BASALT REGIONAL** LIBRARY ROOF REPLACEMENT 14 Midland Avenue Basalt, Colorado 81621 CLIENT: **Basalt Regional Library** District 14 Midland Avenue Basalt, Colorado 81621 DATE DESCRIPTION No. 2022.7310.0 WJE PROJECT No .: SEPTEMBER 22, 2023 ISSUE DATE: CLM PROJECT MANAGER: MMT **REVIEWED BY:** KMH/BRS/CRS DRAWN BY: AS NOTED SCALE: **REFERENCE PHOTOS**

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PRE-MOLDED TPO PIPE FLASHING. FLASHING SHALL BE CERTIFIED PRE-FABRICATED (CFA) LABELED BY MFR PRESSURE-SENSITIVE ELASTOFORM FLASHING. LAP ONTO SELF-ADHERED UNDERLAYMENT 3" MIN 1½" MIN. WELD FILL ROUGH OPENING AT PENETRATION W/ MFR APPROVED FLASHING FOAM

3

2

DETAIL NOTE:

FLASHING TERMINATION AT EXISTING PIPE PENETRATION SCALE: 3" = 1'-0"

4

- SILICONE SEALANT

5

LENGTH TO WIDTH (L:W) RATIOS FOR SADDLES & CRICKETS ROOF SLOPE S & C MATERIAL SLOPE L:W RATION 2:1 <u>1</u>" $\frac{1}{4}$ " 2:1 <u>1</u>" <u>1</u>" 2:1

6

9. WHERE EQUIPMENT, PIPING, CONDUITS, OR ACCESSORIES ARE SUPPORTED BY PARALLEL LINEAR WOOD CURB INSTEAD OF FULL CURBS, SUCH SUPPORTS SHALL BE REPLACED WITH FULL CURBS TO PREVENT DAMMING OF WATER IN HEAVY RAINS, UNLESS FULL CURBS CONFLICTS WITH THE FUNCTION OF THE ITEM. 10. WALKWAY PROTECTION MATERIAL APPROVED BY THE ROOFING MATERIAL MANUFACTURER SHALL BE INSTALLED AROUND THE PERIMETER OF ALL MECHANICAL EQUIPMENT AND ROOF ACCESS POINTS.

PROJECT. WOOD BLOCKING OR PLASTIC BLOCKS ARE NOT PERMITTED. 8. WHERE THE WEIGHT OF EQUIPMENT OR PIPING WARRANTS, PERMANENT CURBED SUPPORTS EXTENDING A MINIMUM OF 12" ABOVE THE PLANE OF THE FINISHED ROOF AND HAVING A METAL CAP WITH PERMANENT ROLLERS SHALL BE USED IN LIEU OF PORTABLE PIPE HANGERS.

HORIZONTAL CLEARANCE FROM ANY OTHER PENETRATION, WALL, OR CURB. 7. ALL PIPES OR CONDUITS OF ANY TYPE SHALL BE SUPPORTED WITH PORTABLE PIPE HANGERS OR APPROVED EQUIVALENT HAVING GALVANIZED IRON SUPPORTS AND A COMPOSITE BASE SET ON PADS MADE OF COMPATIBLE APPROVED ROOFING MATERIAL. THE PORTABLE PIPE HANGERS SHALL BE SET AT A MAXIMUM DISTANCE OF 10 FEET APART OR AS STIPULATED BY THE LOCAL CODE ENFORCING AUTHORITY APPLICABLE TO THE

ASSEMBLY. 5. PITCH PANS OR PITCH POCKETS ARE NOT PERMITTED. WHEREVER A PIPE OR CONDUIT PENETRATES THE ROOF, A HOODED AND WOOD CURBED FLASHING SHALL BE USED. ALL PIPE OR CONDUIT WILL HAVE A 100 DEGREE RIGHT ANGLE BEND TO CAUSE WATER TO DRAIN AWAY FROM THE FLASHING, AND SUCH CONDUITS AND PIPES SHALL HAVE A DRIP LOOP UNLESS SUCH INTERFERES WITH THE NORMAL FUNCTION OF THE LINE.

3. EQUIPMENT OR OTHER ROOFTOP ACCESSORIES SHALL NOT BE SET IN PLACE UNTIL ALL BITUMINOUS BASE FLASHINGS AND COUNTERFLASHINGS MADE OF COMPATIBLE METAL ARE ON SITE AND READY TO INSTALL. ALL MECHANICAL EQUIPMENT OR ACCESSORY CURBS SHALL HAVE A COUNTERFLASHING INSTALLED MADE OF A COMPATIBLE SHEET METAL MATERIAL. THE GAUGE SHALL BE EQUIVALENT TO 24 GAUGE GALVANIZED STEEL. 4. WHEREVER CONSTRUCTION DOCUMENTS CALL FOR REPLACEMENT, EXTENSION, OR

PENETRATIONS, AND ROOF MOUNTED ACCESSORIES OR EQUIPMENT. 2. ALL MECHANICAL EQUIPMENT OR ACCESSORY CURBS SHALL PROVIDE A MINIMUM CLEARANCE OF 12 INCHES ABOVE THE PLANE OF THE FINISHED ROOF FOR INSTALLATION OF THE BASE FLASHINGS AND COUNTERFLASHINGS. WOOD CURBS SHALL BE USED WHERE POSSIBLE, AND ALL HORIZONTAL BLOCKING SHALL MATCH THE HEIGHT OF THE ROOF INSULATION AT THE CURB LOCATION. ALL SUCH CURBS SHALL HAVE PROPER STRUCTURAL SUPPORT BENEATH THE DECK TO PREVENT DEFLECTION.

MECHANICAL ROOF PENETRATION NOTES

1. THESE GENERAL NOTES APPLY TO ALL MECHANICAL, ELECTRICAL, OR PLUMBING (MEP)

RAISING OF MECHANICAL EQUIPMENT CURBS, SUCH A REQUIREMENT ALSO INCLUDES EXTENDING OR REPLACING CONDUITS, PIPING (INCLUDING GAS PIPING), INTERNAL DUCTS, LOUVERS, AND DAMPERS IN SUCH A MANNER AS TO PROVIDE A COMPLETE OPERATIONAL

6. ALL PIPES, CONDUITS, OR OTHER ROOF PENETRATIONS SHALL HAVE AT LEAST AN 12"

11. ALL PRIMARY DRAINS SHALL BE SUMPED A MINIMUM OF 48" SQUARE. ROOF INSULATION SHALL NOT BE THINNER THAN 3" AT THE DRAIN. CAST IRON OR CAST ALUMINUM STRAINERS SHALL BE USED WITH ALL ROOF DRAINS. PLASTIC STRAINERS ARE NOT ACCEPTABLE. ANY MISSING OR DAMAGED STRAINER SHALL BE REPLACED WITH COMPATIBLE STRAINERS.

12. WHERE WOOD BLOCKING IS REQUIRED TO SUPPORT CURBS OR OTHER PENETRATION FLASHINGS, SUCH WOOD SHALL BE KILN-DRIED (KD) WITH ALL BLOCKING LAYERS LAPPED AND SECURED WITH HOT-DIPPED GALVANIZED, STAINLESS STEEL, OR OTHER CORROSION-RESISTANT SCREWS, NOT NAILED.

13. ALL WOOD CURBS SHALL BE CONSTRUCTED OF A SIZE AND DIMENSIONS TO PROVIDE 1" CLEARANCE ON EVERY SIDE BETWEEN THE I.D. OF THE EQUIPMENT FLANGE AND THE O.D. OF THE CURB, TO ALLOW FOR THE BUILD-UP OF FLASHING MATERIAL AT THE CORNERS. GOUGED ROOF FLASHING CORNERS ARE NOT ACCEPTABLE.

14. EXTEND PLUMBING VENTS 11" ABOVE THE PLANE OF THE FINISHED ROOF. RELOCATE ANY VENT CLOSER THAN 12" TO ANY VENT, CURB, WALL OR OTHER PROJECTIONS. RELOCATION OF VENTS INCLUDES EXTENDING VENTS, REPAIRING DECK, CORING DECK, INTERIOR REPAIRS & FINISHES TO PROVIDE A COMPLETE CONNECTION.

∖ STANDARD TAPERED ISO CRICKET DETAIL N.T.S.

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MATERIALS SCIENTISTS

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SEAL:

BASALT REGIONAL LIBRARY ROOF REPLACEMENT

14 Midland Avenue Basalt, Colorado 81621

CLIENT:

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Basalt Regional Library District 14 Midland Avenue

Basalt, Colorado 81621

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