

REPLACE ROOF, EDUCATION BUILDING No.14 BOONVILLE CORRECTIONAL CENTER BOONVILLE, MISSOURI



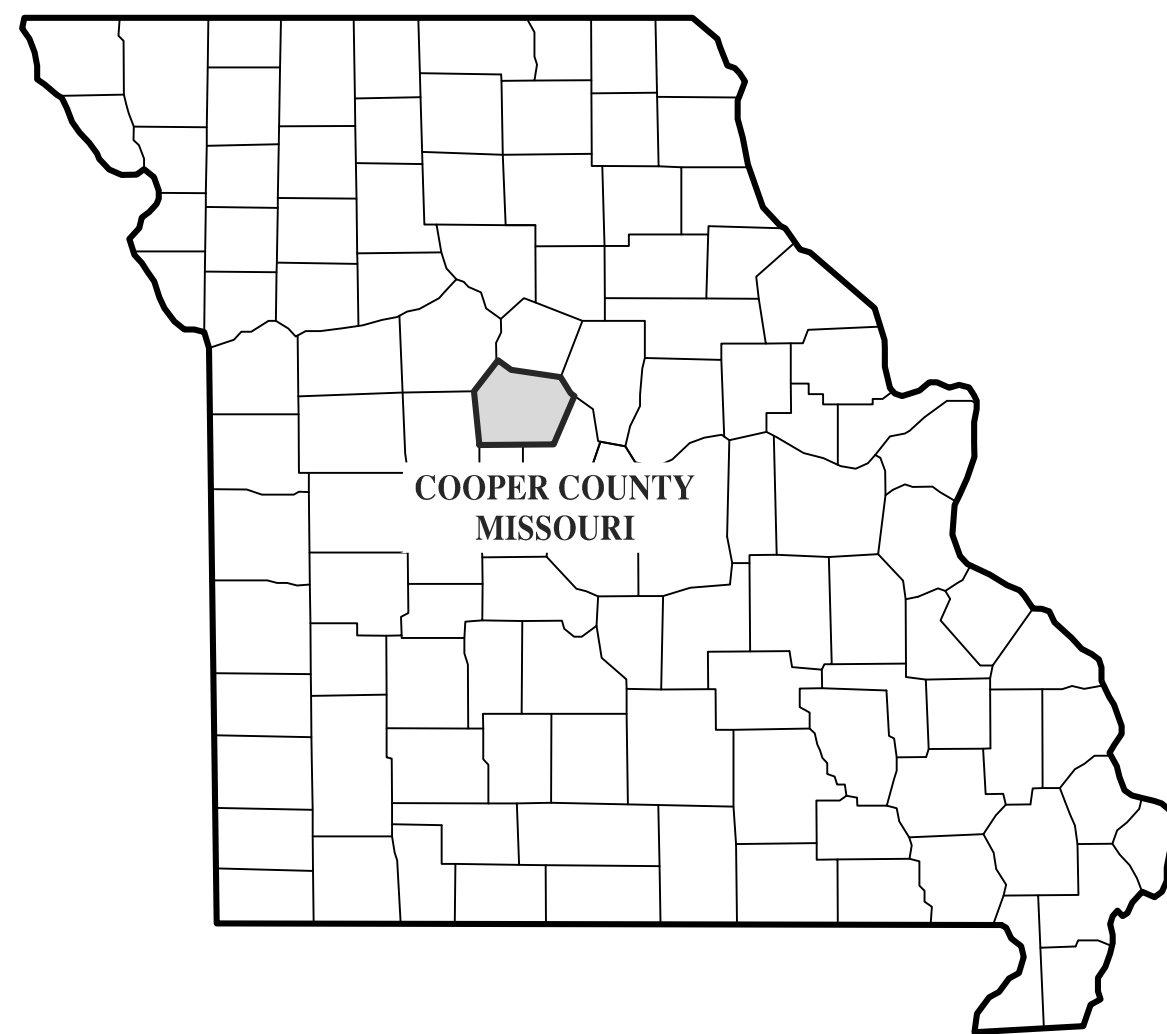
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DEPARTMENT OF CORRECTIONS

DESIGNER: CONNELL ARCHITECTURE, P.C.
2311 EAST WALNUT STREET SUITE B
COLUMBIA, MISSOURI 65201
PROJECT NUMBER: C2311-01

PROJECT
MANAGEMENT: OFFICE OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT,
DESIGN AND CONSTRUCTION

SITE NUMBER: 7002
ASSET NUMBER: 9327002024



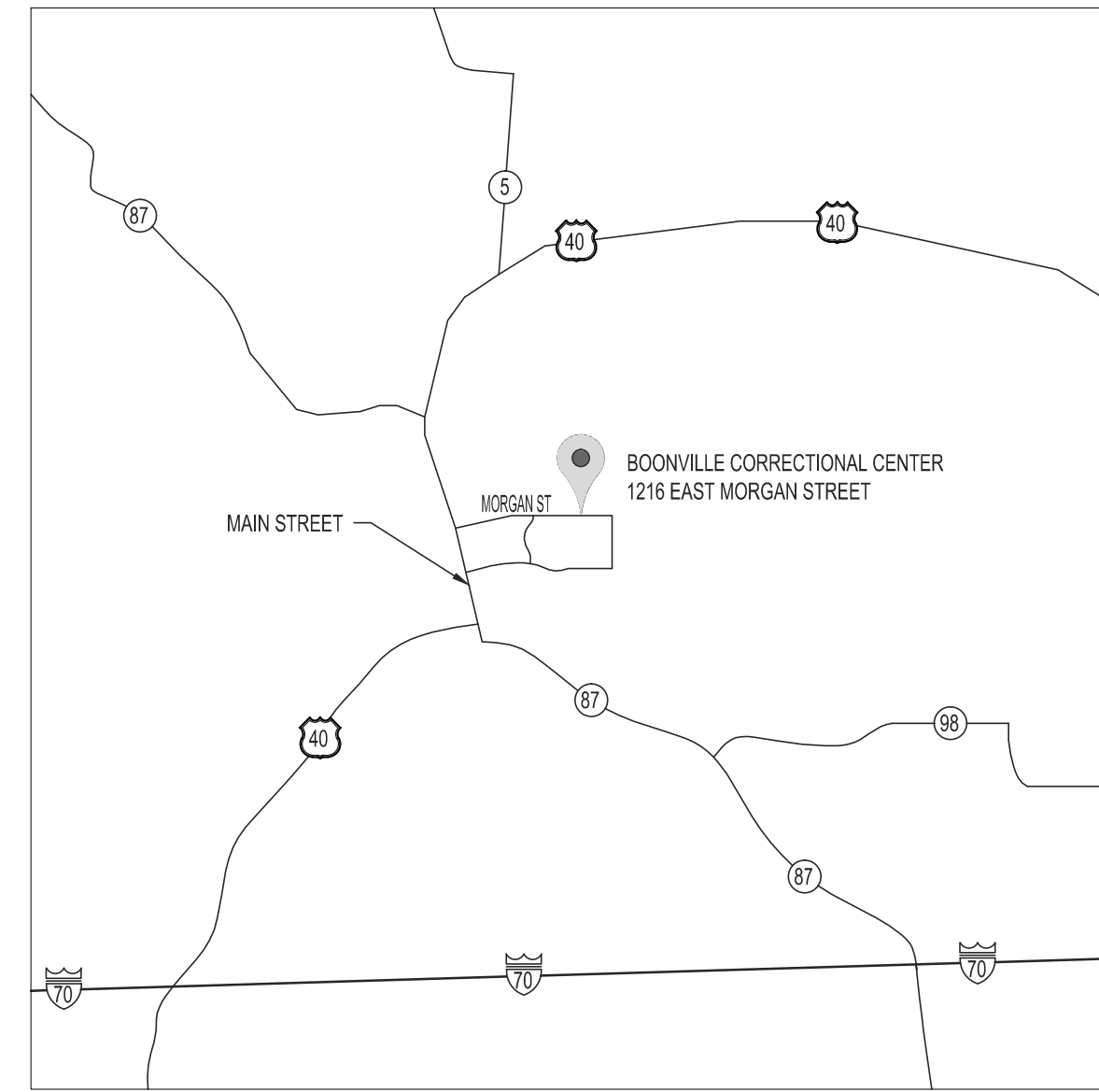
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MISSOURI STATE MAP
NOT TO SCALE



2
G-002

VICINITY MAP - BOONVILLE, MO
NOT TO SCALE



GENERAL NOTES:

- REVIEW THE CONTRACT DOCUMENTS** - IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR TO REVIEW THE DRAWINGS TO ASSURE COORDINATION OF ALL WORK AFFECTING EACH TRADE. FAILURE TO REVIEW ALL CONTRACT DOCUMENTS FOR APPLICABLE ITEMS OF WORK SHALL NOT RELIEVE THE RESPONSIBLE PARTY FROM PERFORMING ALL WORK REQUIRED BY THE CONTRACT DOCUMENTS.
- DRAWINGS** - THESE DRAWINGS SHALL NOT BE SCALED. REFER TO DIMENSIONS INDICATED, ACTUAL SIZES OF CONSTRUCTION ITEMS, OR OTHER METHODS OF LOCATING OR SIZING CONSTRUCTION. WHERE NO DIMENSION OR METHOD OF DETERMINING A LOCATION OR SIZE OF ANY ITEM IS GIVEN, THE CONTRACTOR SHALL VERIFY THE CORRECT LOCATION OR SIZE OF ANY ITEM WITH CONNELL ARCHITECTURE P.C. PRIOR TO INSTALLATION.
- DIMENSIONS** - DIMENSIONS ON PLANS ARE MEASURED FROM FACE OF CONCRETE, MASONRY, OR FRAMING UNLESS OTHERWISE NOTED. DIMENSIONS INDICATED AS "CLEAR" SHALL BE A MINIMUM DIMENSION MEASURED FROM THE FACE OF FINISH MATERIALS (WHERE CLEARANCES ARE CRITICAL).
- COORDINATION** - THE CONTRACTOR SHALL COORDINATE REQUIREMENTS OF ALL TRADES TO ALLOW FOR TIMELY INCLUSION IN THE WORK SO AS NOT TO DELAY THE WORK OR THE WORK OF ANY SUBCONTRACTOR.
- EXISTING CONDITIONS** - THE EXISTING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM OBSERVATIONS AND MEASUREMENTS TAKEN DURING SITE VISITS AND FROM ARCHIVE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS ON THE JOB SITE, AND NOTIFY CONNELL ARCHITECTURE P.C. OF DEVIATIONS FROM THESE DRAWINGS PRIOR TO FABRICATION AND INSTALLATION OF THE WORK.
- PRECAUTIONS** - THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION ADMINISTRATOR AND CONNELL ARCHITECTURE P.C. IMMEDIATELY UPON DISCOVERY OF ANY UNFORESEEN CONDITIONS WHICH COULD RESULT IN DAMAGE TO THE STRUCTURE OR INJURY TO ITS OCCUPANTS. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROPERLY SUPPORT THE STRUCTURE AND PROTECT THE OCCUPANTS.
- HAZARDOUS MATERIALS** - THE CONTRACTOR SHALL IMMEDIATELY REPORT THE DISCOVERY OF ANY HAZARDOUS MATERIALS TO THE CONSTRUCTION ADMINISTRATOR AND CONNELL ARCHITECTURE, P.C.
- SITE USAGE** - THE CONTRACTOR'S USE OF THE SITE FOR ANY CONSTRUCTION STAGING OR OTHER OPERATIONS SHALL BE COORDINATED WITH THE OWNER AND CONSTRUCTION ADMINISTRATOR. THE CONTRACTOR'S OPERATIONS SHALL NOT OBSTRUCT OR ADVERSELY AFFECT ANY PUBLIC RIGHT-OF-WAY OR ADJACENT OWNER-OCCUPIED AREAS.
- EXIT ACCESS** - THE CONTRACTOR SHALL AT ALL TIMES DURING THE CONSTRUCTION PERIOD MAINTAIN UNOBSTRUCTED, SAFE, AND APPROVED MEANS OF EGRESS IN AND OUT OF PROJECT LOCATION AND EXISTING OCCUPIED BUILDINGS IN ACCORDANCE WITH REQUIREMENTS OF APPLICABLE REGULATORY AGENCIES.
- EXISTING MATERIALS:** ANY AND ALL MATERIALS NOTED "TO REMAIN" ARE EXISTING MATERIALS TO REMAIN A PART OF THE WORK UNLESS OTHERWISE NOTED. ANY MATERIAL NOT DESIGNATED "TO REMAIN" SHALL BE REMOVED AND DISPOSED OF IN A LEGAL MANNER, AND REPLACED WITH NEW MATERIALS UNLESS OTHERWISE NOTED.

DRAWING INDEX

ARCHITECTURAL SHEETS

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SITE MAP - BOONVILLE CORRECTIONAL CENTER
NOT TO SCALE
SITE NUMBER - 7002

GENERAL ROOF REPLACEMENT NOTES

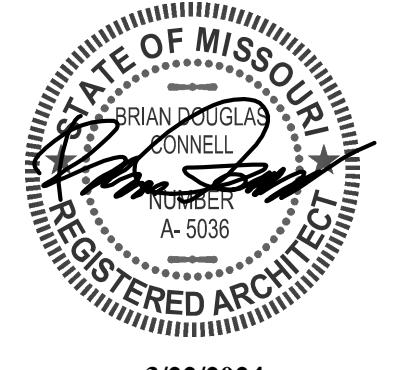
- ROOF SLOPE: THE MINIMUM SLOPE ON ANY LOW-SLOPE ROOF PLANE (INCLUDING SADDLES AND CRICKETS) SHALL BE 1/2" PER FOOT.
- THERMAL PERFORMANCE: THE MINIMUM AVERAGE R-VALUE FOR ANY ROOF AREA ON THIS PROJECT SHALL BE R-30.
- WIND UPLIFT RATING: FM 1A-90
- FIRE RESISTANCE RATING: UL CLASS C.
- ROOF WARRANTY: THE NEW TPO MEMBRANE ROOF AND FLASHING SYSTEM SHALL BE WARRANTED BY THE MANUFACTURER FOR A PERIOD OF 20 YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION.

ASBESTOS CONTAINING MATERIALS

A LIMITED ASBESTOS INSPECTION WAS CONDUCTED ON THE EXISTING ROOF AREA AND THROUGHOUT ALL INTERIOR AREAS OF THE EDUCATION BUILDING No. 14 WHERE DEMOLITION AND CONSTRUCTION ACTIVITIES ARE ANTICIPATED IN THE SCOPE OF THIS PROJECT. THE LABORATORY ANALYSIS INDICATES THAT SAMPLES TAKEN DURING THE INVESTIGATION DO CONTAIN ASBESTOS. ASBESTOS ABATEMENT WILL BE REQUIRED IN AND ON ALL AREAS OF THE BUILDING WHERE ASBESTOS-CONTAINING MATERIALS MAY BE DISTURBED DURING THE COURSE OF DEMOLITION AND CONSTRUCTION ACTIVITIES.
REFER TO PROJECT MANUAL SECTION 028213 - ASBESTOS ABATEMENT AND APPENDIX A - ASBESTOS-CONTAINING MATERIALS SURVEY REPORT FOR FULL DETAIL.

LEAD CONTAINING MATERIALS

A VISUAL INSPECTION FOR LEAD-CONTAINING MATERIALS WAS CONDUCTED ON THE ROOF AND EXTERIOR OF THE EDUCATION BUILDING No. 14 AND NO SUSPECT LEAD-CONTAINING MATERIALS WERE OBSERVED. THEREFORE A SAMPLING INVESTIGATION FOR LEAD-CONTAINING MATERIALS WAS NOT PERFORMED ON THE EXTERIOR OF THE EDUCATION BUILDING No. 14.
A LIMITED LEAD INSPECTION WAS CONDUCTED THROUGHOUT ALL INTERIOR AREAS OF THE EDUCATION BUILDING No. 14 WHERE DEMOLITION AND CONSTRUCTION ACTIVITIES ARE ANTICIPATED IN THE SCOPE OF THIS PROJECT. THE LABORATORY ANALYSIS INDICATES THAT SAMPLES TAKEN DURING THE INVESTIGATION DO CONTAIN LEAD. LEAD ABATEMENT WILL BE REQUIRED IN ALL AREAS OF THE BUILDING WHERE LEAD-CONTAINING MATERIALS MAY BE DISTURBED DURING THE COURSE OF DEMOLITION AND CONSTRUCTION ACTIVITIES.
REFER TO PROJECT MANUAL SECTION 028333 - LEAD ABATEMENT AND APPENDIX B - LEAD-CONTAINING MATERIALS SURVEY REPORT FOR FULL DETAIL.



3/22/2024
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REPLACE ROOF
EDUCATION BLDG No. 14

BOONVILLE CORRECTIONAL
CENTER

1216 EAST MORGAN ST.
BOONVILLE, MO 65233

PROJECT No. C2311-01
SITE No. 7002
ASSET No. 9327002024

REVISION: _____
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CAD DWG FILE:
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DRAWN BY: BDC
CHECKED BY: BDC
DESIGNED BY: BDC

SHEET TITLE:

LOCATION MAPS &
DRAWING INDEX

SHEET NUMBER:

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GENERAL ROOF DEMOLITION NOTES: EDUCATION BUILDING No. 14

- CONTRACTOR SHALL COORDINATE ALL DEMOLITION AND REMOVAL OF DEMOLITION MATERIALS WITH OTHER WORK SEQUENCES AND OWNER OCCUPANCY REQUIREMENTS.
- REMOVE ALL EXISTING EPDM MEMBRANE, MEMBRANE FLASHING, BOOTS AND TRIM.
- REMOVE ALL EXISTING PERIMETER METAL COPING, FLASHING, COUNTERFLASHING, SHEET METAL CLEATS, FASTENERS, AND SEALANT.
- REMOVE ALL EXISTING ROOF-TO-WALL BASE FLASHING, COUNTERFLASHING, REGLETS, FASTENERS AND SEALANT.
- REMOVE ALL EXISTING WOOD BLOCKING, CANTS, NAILERS, GROUNDS, ETC.
- REMOVE ALL ABANDONED ITEMS (VENTS, CONDUITS, PIPES, DUCTS, CURBS, ETC. AS NOTED ON THE ROOF DEMOLITION PLAN.
- TOTAL ROOF AREA CALCULATION DOES NOT INCLUDE VERTICAL SURFACE AREA OF PARAPET WALLS OR OTHER FEATURES.

KEYED ROOF DEMOLITION NOTES: EDUCATION BUILDING No. 14

- REMOVE EXISTING ROOF DRAIN AND PREP ROOF PENETRATION TO RECEIVE NEW ROOF DRAIN IN EXISTING LOCATION.
- REMOVE EXISTING ROOF DRAIN. COVER ROOF PENETRATION WITH 24"x24" 20-GAUGE SHEET METAL PANEL ANCHORED TO CONCRETE ROOF DECK WITH 4"-1/2"x1" TAPCONS.
- EXISTING CURB-MOUNTED EXHAUST VENT TO REMAIN
- EXISTING 4" Ø CAST IRON VTR TO REMAIN
- EXISTING ROOF HATCH TO REMAIN (CONCRETE CURB)
- CAREFULLY REMOVE EXISTING 5"x8" CAST IRON THROUGH-WALL OVERFLOW WEIR SLEEVE. REINSTALL AT UNDERSIDE OF EXISTING STONE PARAPET TO RAISE OVERFLOW WEIR OPENING
- CAREFULLY REMOVE EXISTING BRICK MASONRY FROM EXISTING THROUGH-WALL OVERFLOW WEIR OPENING UP TO UNDERSIDE OF EXISTING STONE PARAPET TO RAISE OVERFLOW WEIR OPENING
- REMOVE EXISTING ROOF - TO - WALL FLASHING
- REMOVE EXISTING SHEET METAL ROOF PANELS, LIGHT-GAUGE FRAMING, FLASHING & GUTTER
- EXISTING CURB-MOUNTED VENTILATION PENTHOUSE TO REMAIN
- EXISTING STONE PARAPET COPING TO REMAIN
- REMOVE EXISTING EPDM MEMBRANE AND INSULATION DOWN TO CONCRETE ROOF DECK.
- REMOVE EXISTING EPDM MEMBRANE AND INSULATION DOWN TO METAL ROOF DECK.

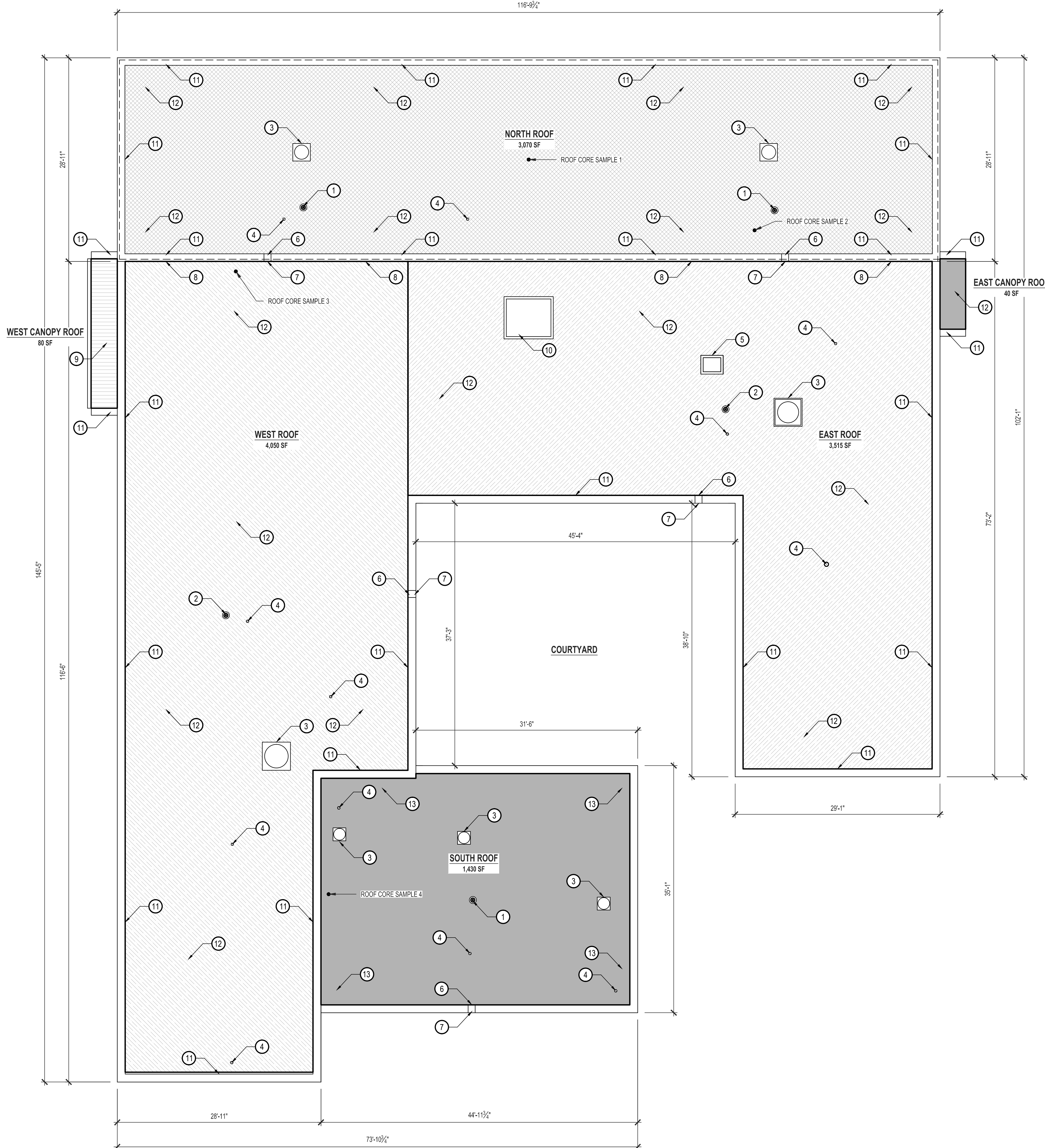
EXISTING ROOF FEATURE SCHEDULE - EDUCATION BUILDING No. 14

NORTH ROOF AREA	
Description	Quantity
4" Cast Iron Roof Drain & Dome Strainer	2
4" Ø Cast Iron VTR	2
Exhaust Vent (Curb-Mounted)	2
Overflow Weirs (Thru-Wall Scuppers)	2
Roof-Mounted HVAC Units	2

EAST ROOF AREA	
Description	Quantity
4" Cast Iron Roof Drain & Dome Strainer	1
4" Ø Cast Iron VTR	3
Exhaust Vent (Curb-Mounted)	1
Overflow Weirs (Thru-Wall Scuppers)	1
Roof-Mounted HVAC Units	3
Roof Access Hatch	1
Ventilator Penthouse	1

WEST ROOF AREA	
Description	Quantity
4" Cast Iron Roof Drain & Dome Strainer	1
4" Ø Cast Iron VTR	4
Exhaust Vent (Curb-Mounted)	1
Overflow Weirs (Thru-Wall Scuppers)	1
Roof-Mounted HVAC Units	4

SOUTH ROOF AREA	
Description	Quantity
4" Cast Iron Roof Drain & Dome Strainer	1
4" Ø Cast Iron VTR	3
Exhaust Vent (Curb-Mounted)	3
Overflow Weirs (Thru-Wall Scuppers)	1
Roof-Mounted HVAC Units	2



**EDUCATION BUILDING No. 14
EXISTING ROOF ASSEMBLY DESCRIPTION**

- THE EXISTING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM OBSERVATIONS AND MEASUREMENTS TAKEN DURING SITE VISITS AND FROM ARCHIVE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS ON THE JOB SITE.
- NORTH ROOF AREA (3,070 SF):** 60 MIL EPDM OVER TAPERED EPS RIGID FOAM INSULATION (THICKNESS VARIES) OVER LIGHTWEIGHT CONCRETE (THICKNESS VARIES) OVER STRUCTURAL CONCRETE ROOF DECK. REFER TO CORE SAMPLE SCHEDULE BELOW FOR THICKNESS OF SUBSTRATE MATERIALS.
- EAST & WEST ROOF AREAS (7,565 SF):** 60 MIL EPDM OVER TAPERED EPS RIGID FOAM INSULATION (THICKNESS VARIES) OVER LIGHTWEIGHT CONCRETE (THICKNESS VARIES) OVER STRUCTURAL CONCRETE ROOF DECK. REFER TO CORE SAMPLE SCHEDULE BELOW FOR THICKNESS OF SUBSTRATE MATERIALS.
- SOUTH ROOF AREA (1,430 SF):** 60 MIL EPDM OVER TAPERED POLYISO RIGID FOAM INSULATION OVER 1 1/2" METAL DECK OVER STEEL BAR JOISTS.
- EAST CANOPY ROOF AREA (40 SF):** 60 MIL EPDM OVER TAPERED POLYISO RIGID FOAM INSULATION OVER STRUCTURAL CONCRETE ROOF DECK.
- WEST (FRONT) CANOPY ROOF AREA (80 SF):** STANDING SEAM ROOF PANELS @ 12 / 12 SLOPE OVER LIGHT-GAUGE METAL FRAMING OVER FLAT STRUCTURAL CONCRETE ROOF DECK.

**EDUCATION BUILDING No. 14
EXISTING ROOF CORE SAMPLE SCHEDULE**

- FLAT ROOF AREA**
- ROOF CORE SAMPLE 1: (TOTAL DEPTH = 9")**
60 MIL EPDM OVER 6 1/2" TAPERED EPS RIGID FOAM INSULATION OVER 2 3/4" LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE ROOF DECK.
- ROOF CORE SAMPLE 2: (TOTAL DEPTH = 3 1/2")**
60 MIL EPDM OVER 3 1/2" LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE ROOF DECK.
- ROOF CORE SAMPLE 3: (TOTAL DEPTH = 11")**
60 MIL EPDM OVER 7" TAPERED EPS RIGID FOAM INSULATION OVER 2" LIGHTWEIGHT CONCRETE OVER STRUCTURAL CONCRETE ROOF DECK.
- ROOF CORE SAMPLE 4: (TOTAL DEPTH = 1 1/2")**
60 MIL EPDM OVER 1 1/2" TAPERED POLYISO RIGID FOAM INSULATION OVER 1 1/2" METAL ROOF DECK OVER STEEL BAR JOISTS.

ASBESTOS CONTAINING MATERIALS

A LIMITED ASBESTOS INSPECTION WAS CONDUCTED ON THE EXISTING ROOF AREA AND THROUGHOUT ALL INTERIOR AREAS OF THE EDUCATION BUILDING No. 14 WHERE DEMOLITION AND CONSTRUCTION ACTIVITIES ARE ANTICIPATED IN THE SCOPE OF THIS PROJECT. THE LABORATORY ANALYSIS INDICATES THAT SAMPLES TAKEN DURING THE INVESTIGATION DO NOT CONTAIN ASBESTOS. ASBESTOS ABATEMENT WILL BE REQUIRED IN AND ON ALL AREAS OF THE BUILDING WHERE ASBESTOS-CONTAINING MATERIALS MAY BE DISTURBED DURING THE COURSE OF DEMOLITION AND CONSTRUCTION ACTIVITIES.

REFER TO PROJECT MANUAL SECTION 028213 - ASBESTOS ABATEMENT AND APPENDIX A - ASBESTOS-CONTAINING MATERIALS SURVEY REPORT FOR FULL DETAIL.

LEAD CONTAINING MATERIALS

A VISUAL INSPECTION FOR LEAD-CONTAINING MATERIALS WAS CONDUCTED ON THE ROOF AND EXTERIOR OF THE EDUCATION BUILDING No. 14 AND NO SUSPECT LEAD-CONTAINING MATERIALS WERE OBSERVED. THEREFORE A SAMPLING INVESTIGATION FOR LEAD-CONTAINING MATERIALS WAS NOT PERFORMED ON THE EXTERIOR OF THE EDUCATION BUILDING No. 14.

A LIMITED LEAD INSPECTION WAS CONDUCTED THROUGHOUT ALL INTERIOR AREAS OF THE EDUCATION BUILDING No. 14 WHERE DEMOLITION AND CONSTRUCTION ACTIVITIES ARE ANTICIPATED IN THE SCOPE OF THIS PROJECT. THE LABORATORY ANALYSIS INDICATES THAT SAMPLES TAKEN DURING THE INVESTIGATION DO NOT CONTAIN LEAD. LEAD ABATEMENT WILL BE REQUIRED IN ALL AREAS OF THE BUILDING WHERE LEAD-CONTAINING MATERIALS MAY BE DISTURBED DURING THE COURSE OF DEMOLITION AND CONSTRUCTION ACTIVITIES.

REFER TO PROJECT MANUAL SECTION 028333 - LEAD ABATEMENT AND APPENDIX B - LEAD-CONTAINING MATERIALS SURVEY REPORT FOR FULL DETAIL.



3/22/2024
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CERTIFICATE OF AUTHORITY: 000827

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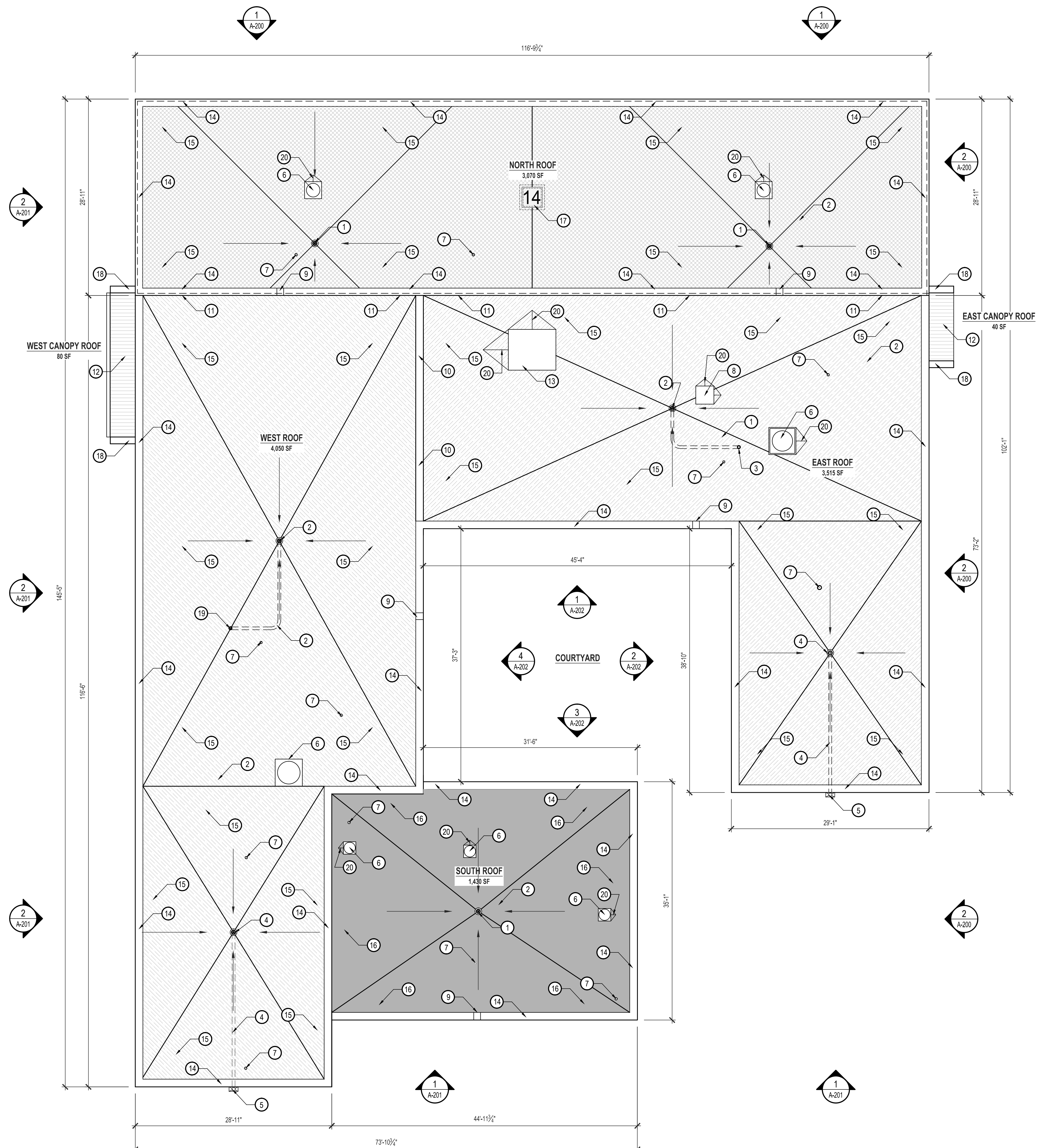
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DRAWN BY: BDC
CHECKED BY: BDC
DESIGNED BY: BDC

SHEET TITLE:

ROOF DEMOLITION PLAN

SHEET NUMBER:
AD-100
SHEET 3 OF 10
ISSUE DATE: 3/22/2024



ROOF REPLACEMENT PLAN
SCALE: 1/8" = 1'-0"

GENERAL ROOF REPLACEMENT NOTES

- ROOF SLOPE: THE MINIMUM SLOPE ON ANY LOW-SLOPE ROOF PLANE (INCLUDING SADDLES AND CRICKETS) SHALL BE 1/2" PER FOOT.
- THERMAL PERFORMANCE: THE MINIMUM AVERAGE R-VALUE FOR ANY ROOF AREA ON THIS PROJECT SHALL BE R-30.
- WIND UPLIFT RATING: FM 1A-60
- FIRE RESISTANCE RATING: UL CLASS C.
- ROOF WARRANTY: THE NEW TPO MEMBRANE ROOF AND FLASHING SYSTEM SHALL BE WARRANTED BY THE MANUFACTURER FOR A PERIOD OF 20 YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION.

**EDUCATION BUILDING No. 14
REPLACEMENT ROOF ASSEMBLY DESCRIPTION**

1. THE EXISTING CONDITIONS SHOWN ON THESE DRAWINGS ARE DERIVED FROM OBSERVATIONS AND MEASUREMENTS TAKEN DURING SITE VISITS AND FROM ARCHIVE INFORMATION PROVIDED BY THE OWNER. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS ON THE JOB SITE.
2. **NORTH ROOF AREA (3,070 SF):** 60 MIL TPO MEMBRANE OVER 1/2" HIGH-DENSITY COVER BOARD OVER TAPERED POLYISO RIGID INSULATION (MINIMUM AVERAGE R-30) OVER STRUCTURAL CONCRETE ROOF DECK.
3. **EAST & WEST ROOF AREAS (7,565 SF):** 60 MIL TPO MEMBRANE OVER 1/2" HIGH-DENSITY COVER BOARD OVER TAPERED POLYISO RIGID INSULATION (MINIMUM AVERAGE R-30) OVER STRUCTURAL CONCRETE ROOF DECK.
4. **SOUTH ROOF AREA (1,430 SF):** 60 MIL TPO MEMBRANE OVER 1/2" HIGH-DENSITY COVER BOARD OVER TAPERED POLYISO RIGID INSULATION (MINIMUM AVERAGE R-30) OVER 1 1/2" METAL DECK OVER STEEL BAR JOISTS.
5. **WEST (FRONT) CANOPY ROOF AREA (80 SF HORIZONTAL AREA):** 24 GAUGE STANDING SEAM METAL ROOF @ 12/12 SLOPE OVER 40 MIL SELF-ADHERING UNDERLAYMENT OVER 1/2" PLYWOOD SUBDECK OVER LIGHT-GAUGE METAL FRAMING INSTALLED OVER EXISTING FLAT STRUCTURAL CONCRETE ROOF DECK - DRAIN TO 24 GAUGE SHEET METAL GUTTER AND DOWNSPOUTS.
6. **EAST CANOPY ROOF AREA (40 SF HORIZONTAL AREA):** 24 GAUGE STANDING SEAM METAL ROOF @ 12/12 SLOPE OVER 40 MIL SELF-ADHERING UNDERLAYMENT OVER 1/2" PLYWOOD SUBDECK OVER LIGHT-GAUGE METAL FRAMING INSTALLED OVER EXISTING FLAT STRUCTURAL CONCRETE ROOF DECK - DRAIN TO 24 GAUGE SHEET METAL GUTTER AND DOWNSPOUTS.

KEYED ROOF REPLACEMENT NOTES: EDUCATION BUILDING No. 14

1. INSTALL NEW ROOF DRAIN TO REPLACE EXISTING ROOF DRAIN TO REMAIN IN EXISTING LOCATION - CONNECT TO EXISTING 4" Ø CAST IRON HORIZONTAL AND VERTICAL DRAIN PIPING INSIDE BUILDING.
2. INSTALL NEW 4" Ø CAST IRON ROOF WITH DOME STRAINER - CONNECT TO NEW 6" Ø HORIZONTAL PVC DRAIN PIPING INSTALLED AT UNDERSIDE OF CEILING - CONNECT TO EXISTING VERTICAL CAST IRON ROOF DRAIN PIPING LOCATED INSIDE BUILDING (SEE NOTES 3 & 19). REFER TO DETAIL 1/A-501.
3. EXISTING 5" Ø VERTICAL CAST IRON ROOF DRAIN LOCATED INSIDE BUILDING.
4. INSTALL NEW 4" Ø CAST IRON ROOF DRAIN WITH DOME STRAINER - CONNECT TO NEW 6" Ø PVC HORIZONTAL DRAIN PIPING INSTALLED AT UNDERSIDE OF ROOF DECK - TERMINATE AT NEW THROUGH-WALL NOZZLE AND DOWNSPOUT (SEE NOTE 5). REFER TO DETAILS 1/A-501 & 4/A-502.
5. INSTALL NEW ROOF DRAIN NOZZLE AND SHEET METAL DOWNSPOUT WITH LEADER HEAD - TERMINATE DOWNSPOUT AT GRADE ON SPLASH BLOCK. REFER TO DETAIL 6/A-500.
6. EXISTING CURB-MOUNTED EXHAUST VENT TO REMAIN - RAISE TOP OF CURB TO MINIMUM 12" ABOVE NEW ROOF SURFACE. INSTALL CURB FLASHING. REFER TO DETAIL 6/A-500.
7. EXISTING 4" Ø CAST IRON VTR TO REMAIN - EXTEND TOP OF VTR TO MINIMUM 12" ABOVE NEW ROOF SURFACE. INSTALL NEW BOOT FLASHING. REFER TO DETAIL 2/A-501.
8. EXISTING ROOF HATCH TO REMAIN (CONCRETE CURB) - EXTEND TOP OF CURB TO MINIMUM 12" ABOVE NEW ROOF SURFACE. INSTALL CURB FLASHING. REFER TO DETAIL 6/A-500.
9. INFILL EXISTING THRU-WALL OVERFLOW WEIR (SCUPPER) OPENING IN PARAPET WALL WITH BRICK MASONRY TO MATCH EXISTING. RAISE EXISTING 5" Ø CAST IRON THRU-WALL OVERFLOW WEIR SLEEVE (SAME SIZE AS ORIGINAL) UP TO UNDERSIDE OF STONE PARAPET CAP. CONTOUR NEW TAPERED INSULATION AT SCUPPER OPENING AS REQUIRED. FLASH THRU-WALL OPENING WITH TPO MEMBRANE FLASHING. REFER TO DETAILS 1/A-502, 2/A-502, 3/A-502.
10. NEW ROOF EXPANSION JOINT. REFER TO DETAIL 3/A-501.
11. INSTALL NEW ROOF - TO - WALL TPO MEMBRANE FLASHING. REFER TO DETAIL 2/A-500.
12. INSTALL NEW SHEET METAL ROOF PANELS, FLASHING & GUTTER. REFER TO DETAILS 5/A-501, 6/A-501.
13. EXISTING CURB-MOUNTED VENTILATION PENTHOUSE TO REMAIN - INSTALL CURB FLASHING.
14. EXISTING STONE PARAPET COPING TO REMAIN - EXTEND TPO MEMBRANE UP AND OVER TOP. 2/A-500.
15. INSTALL NEW 60 MIL TPO MEMBRANE, 1/2" HIGH-DENSITY COVER BOARD AND TAPERED POLYISO INSULATION (MINIMUM AVERAGE R-30) OVER EXISTING CONCRETE ROOF DECK. DETAIL 3/A-500.
16. INSTALL NEW 60 MIL TPO MEMBRANE, 1/2" HIGH-DENSITY COVER BOARD AND TAPERED POLYISO INSULATION (MINIMUM AVERAGE R-30) OVER EXISTING METAL ROOF DECK (SOUTH ROOF AREA ONLY). REFER TO DETAILS 4/A-500 & 5/A-500.
17. BUILDING IDENTIFICATION SIGN: BUILDING No. 14. REFER TO DETAIL 2/A-100.
18. EXISTING STONE PARAPET CAP AT TOP OF ENTRANCE WING WALLS TO REMAIN.
19. EXISTING 6" Ø VERTICAL CAST IRON ROOF DRAIN LOCATED INSIDE BUILDING.
20. INSTALL TAPERED INSULATION DRAINAGE CRICKET AT ROOF CURB - MIN SLOPE: 1/2" PER FOOT.

BUILDING IDENTIFICATION SIGNAGE NOTE:

1. LETTERING AND BACKGROUND SHALL BE REFLECTIVE.
2. SIGN SHALL BE FABRICATED FROM 36" x 36" x .080" ALUMINUM SHEET WITH SMOOTH FINISH.
3. THE CHARACTERS (BUILDING NUMBER) SHALL BE ARIAL FONT, MINIMUM 32" HIGH WITH 3" STROKE. FABRICATED FROM 3M #1178 BLACK ELECTROCUIT ACRYLIC SHEET WITH PRESSURE-SENSITIVE ADHESIVE BACK APPLIED OVER REFLECTIVE BACKGROUND.
4. REFLECTIVE BACKGROUND SHALL BE 3M #930 SILVER/WHITE HIGH-INTENSITY PRISMATIC REFLECTIVE SHEETING WITH PRESSURE-SENSITIVE ADHESIVE APPLIED TO ALUMINUM SHEET.
5. SIGN SHALL BE FULLY-ADHERED TO TPO WALK PAD LAMINATED TO THE TPO MEMBRANE WITH ADHESIVE COMPATIBLE WITH THE ROOF MEMBRANE MANUFACTURER'S WARRANTY.

BUILDING SIGNAGE
SCALE: 3/8" = 1'-0"

STATE OF MISSOURI
MICHAEL L. PARSON,
GOVERNOR



3/22/2024
BRIAN DOUGLAS CONNELL ARCHITECT MO A-5038

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REPLACE ROOF
EDUCATION BLDG No. 14
BOONVILLE CORRECTIONAL
CENTER

1216 EAST MORGAN ST.
BOONVILLE, MO 65233

PROJECT No. C2311-01
SITE No. 7002
ASSET No. 9327002024

REVISION:
DATE:
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CAD DWG FILE:
C2311-01-7002-9327002024-A-100.dwg
DRAWN BY: BDC
CHECKED BY: BDC
DESIGNED BY: BDC

SHEET TITLE:

ROOF REPLACEMENT PLAN

SHEET NUMBER:
A-100
SHEET 4 OF 10
ISSUE DATE: 3/22/2024



3/22/2024

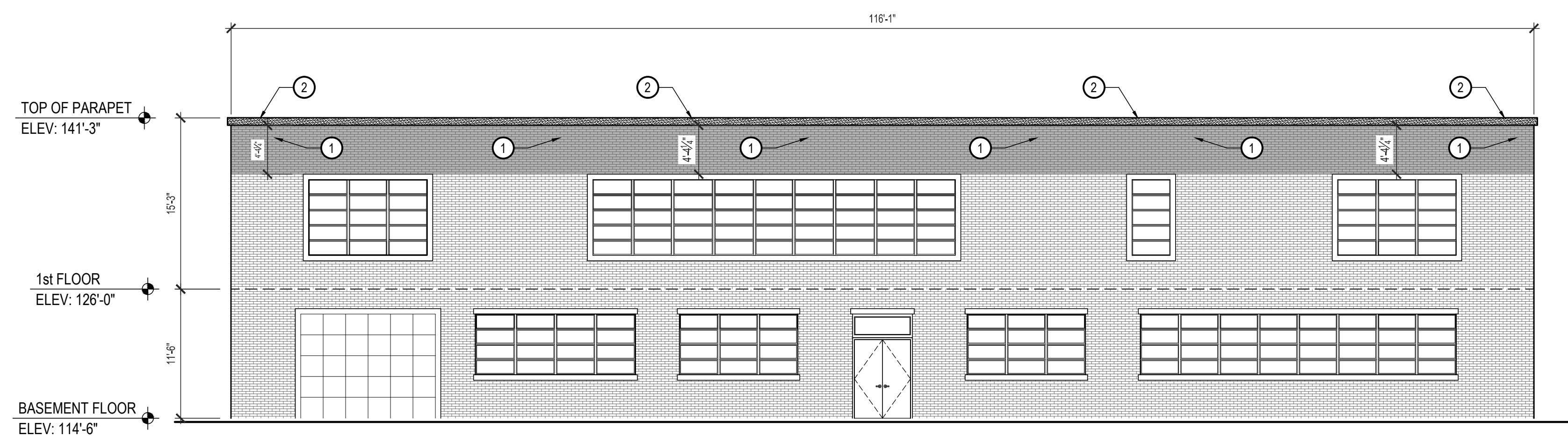
BRIAN DOUGLAS CONNELL ARCHITECT MO A-5036

GENERAL MASONRY MAINTENANCE NOTES: EDUCATION BUILDING No. 14

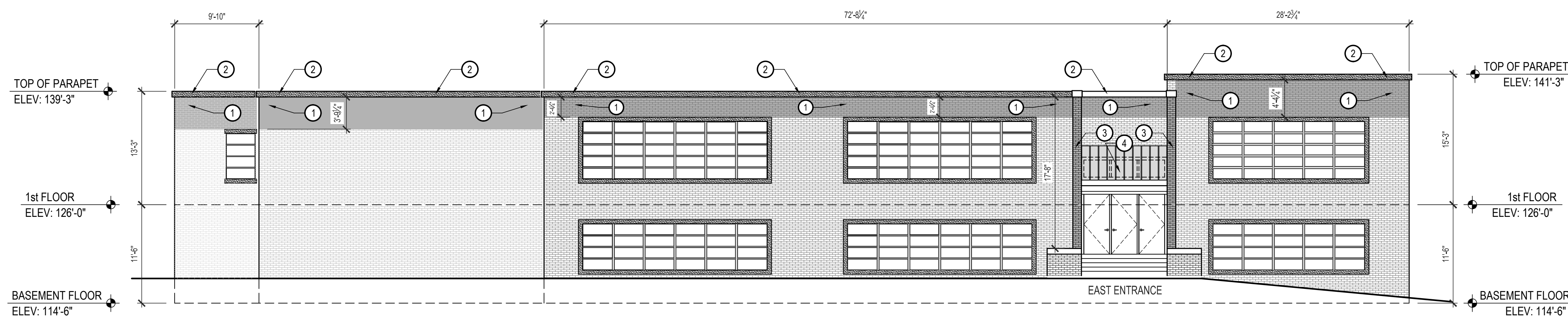
1. CONTRACTOR SHALL COORDINATE ALL DEMOLITION AND REMOVAL OF DEMOLITION MATERIALS WITH OTHER WORK SEQUENCES AND OWNER OCCUPANCY REQUIREMENTS.
2. CAREFULLY GRIND OR RAKE OUT DETERIORATED MORTAR IN ALL HEAD AND BED JOINTS IN THE EXTERIOR WALL AREAS DESIGNATED FOR MASONRY MAINTENANCE. CLEAN AND PREPARE SURFACES TO RECEIVE NEW MORTAR OR SEALANT.
3. CAREFULLY GRIND OR RAKE OUT DETERIORATED MORTAR AND SEALANT IN ALL HEAD JOINTS IN STONE PARAPET COPING, AND PREPARE SURFACES TO RECEIVE NEW MORTAR OR SEALANT.
4. CAREFULLY REMOVE AND REINSTALL OR REPLACE DETERIORATED BRICK AND STONE UNITS AS REQUIRED MAINTAIN THE INTEGRITY OF THE EXTERIOR MASONRY.
5. BASE BID INCLUDES 4,000 SF OF MASONRY TUCKPOINTING. REFER TO SECTION 012200 UNIT PRICES.

KEYED MASONRY MAINTENANCE NOTES: EDUCATION BUILDING No. 14

1. CAREFULLY GRIND OR RAKE OUT DETERIORATED MORTAR AND SEALANT FROM ALL HEAD AND BED JOINTS IN DESIGNATED AREAS OF BRICK MASONRY TO A MINIMUM DEPTH OF 3/4" OR TO SOUND MORTAR, TAKING CARE TO AVOID DAMAGING MASONRY EDGES AND SURFACES. CLEAN SURFACES AND PREPARE TO RECEIVE NEW MORTAR OR SEALANT. INSTALL NEW POINTING MORTAR TO MATCH EXISTING ADJOINING MORTAR IN COLOR, TEXTURE AND JOINT PROFILE TO ELIMINATE EVIDENCE OF REPLACEMENT.
2. CAREFULLY GRIND OR RAKE OUT DETERIORATED MORTAR AND SEALANT FROM ALL HEAD AND BED JOINTS IN ALL STONE PARAPET COPING TO A MINIMUM DEPTH OF 3/4" OR SOUND MORTAR, TAKING CARE TO AVOID DAMAGING STONE / MASONRY EDGES AND SURFACES. CLEAN SURFACES AND PREPARE TO RECEIVE NEW MORTAR OR SEALANT. INSTALL NEW BACKER ROD AND JOINT SEALANT AT ALL HEAD AND BED JOINTS IN STONE COPING.
3. ENTRANCE WING WALLS: CAREFULLY GRIND OR RAKE OUT DETERIORATED MORTAR AND SEALANT FROM ALL HEAD AND BED JOINTS IN DESIGNATED AREAS OF BRICK MASONRY TO A MINIMUM DEPTH OF 3/4" OR TO SOUND MORTAR, TAKING CARE TO AVOID DAMAGING MASONRY EDGES AND SURFACES. CLEAN SURFACES AND PREPARE TO RECEIVE NEW MORTAR OR SEALANT. INSTALL NEW POINTING MORTAR TO MATCH EXISTING ADJOINING MORTAR IN COLOR, TEXTURE AND JOINT PROFILE TO ELIMINATE EVIDENCE OF REPLACEMENT.
4. STANDING SEAM METAL ROOF OVER ENTRANCE CANOPIES: INSTALL NEW 24 GAUGE STANDING SEAM METAL ROOF PANELS OVER 40 MIL SELF-ADHERING UNDERLAYMENT OVER 3/4" PLYWOOD SUBDECK OVER LIGHT-GAUGE METAL FRAMING OVER EXISTING STRUCTURAL CONCRETE DECK - DRAIN TO 24 GAUGE SHEET METAL GUTTER AND DOWNSPOUTS. (COVER EXISTING TRANSOM) REFER TO DETAILS 6/A-501 & 6/A-501.



1 NORTH EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"



2 EAST EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"

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DESIGNED BY: BDC

SHEET TITLE:
NORTH & EAST
EXTERIOR ELEVATIONS -
MASONRY MAINTENANCE

SHEET NUMBER:

A-200

SHEET 5 OF 10
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3/22/2024

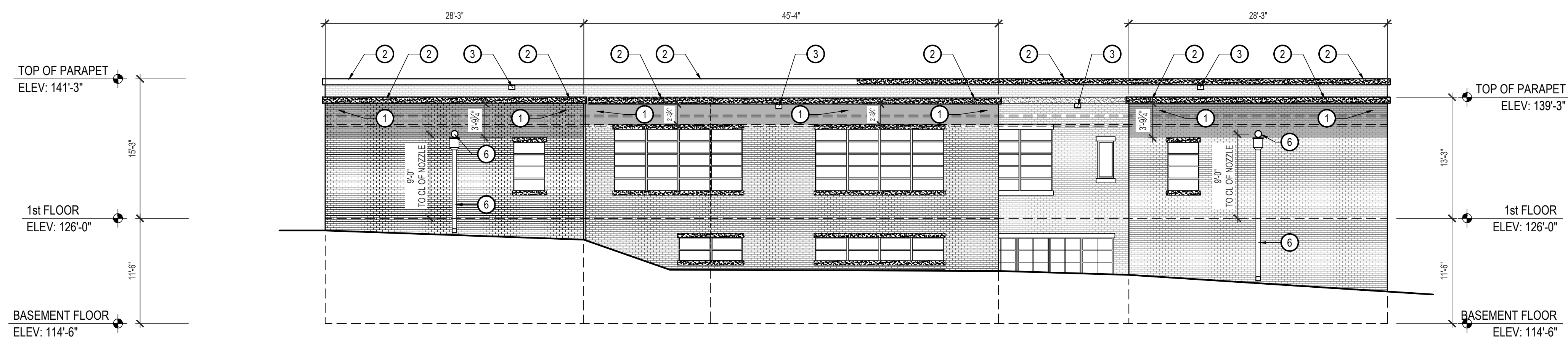
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GENERAL MASONRY MAINTENANCE NOTES: EDUCATION BUILDING No. 14

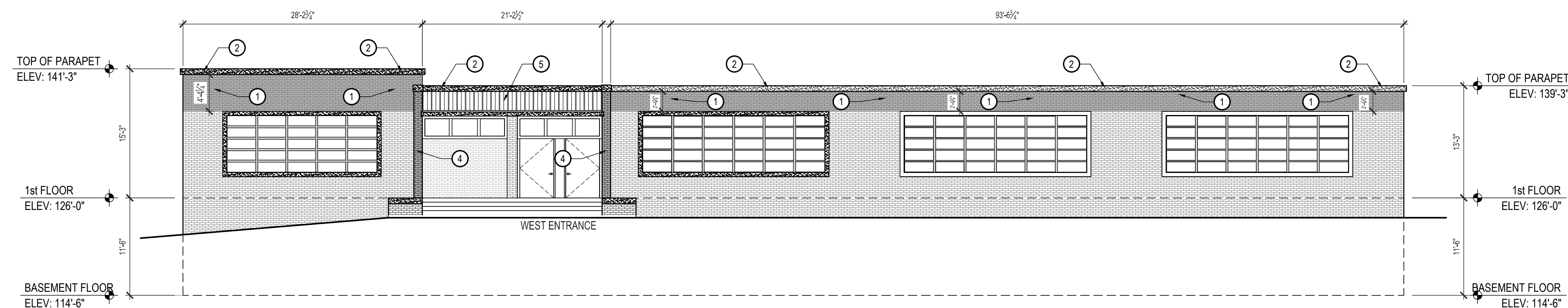
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- CAREFULLY REMOVE AND REINSTALL OR REPLACE DETERIORATED BRICK AND STONE UNITS AS REQUIRED MAINTAIN THE INTEGRITY OF THE EXTERIOR MASONRY.
- BASE BID INCLUDES 4,000 SF OF MASONRY TUCKPOINTING. REFER TO SECTION 012200 UNIT PRICES.

KEYED MASONRY MAINTENANCE NOTES: EDUCATION BUILDING No. 14

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- RAISE EXISTING 5"x8" CAST IRON THROUGH-WALL OVERFLOW WEIR SLEEVE TO UNDERSIDE OF STONE PARAPET CAP - INFILL EXISTING OPENING IN PARAPET WALL WITH BRICK MASONRY TO MATCH EXISTING ADJACENT BRICK - FLASH THROUGH-WALL OVERFLOW WEIR SLEEVE WITH TPO MEMBRANE FLASHING. REFER TO DETAILS SHEET A-502.
- ENTRANCE WING WALLS: CAREFULLY GRIND OR RAKE OUT DETERIORATED MORTAR AND SEALANT FROM ALL HEAD AND BED JOINTS IN DESIGNATED AREAS OF BRICK MASONRY TO A MINIMUM DEPTH OF 3/4" OR TO SOUND MORTAR, TAKING CARE TO AVOID DAMAGING MASONRY EDGES AND SURFACES. CLEAN SURFACES AND PREPARE TO RECEIVE NEW MORTAR OR SEALANT. INSTALL NEW POINTING MORTAR TO MATCH EXISTING ADJOINING MORTAR IN COLOR, TEXTURE AND JOINT PROFILE TO ELIMINATE EVIDENCE OF REPLACEMENT.
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- INSTALL NEW THROUGH-WALL 6" Ø DOWNSPOUT NOZZLE AND PRE-FINISHED 24-GAUGE SHEET METAL LEADER HEAD AND DOWNSPOUT - TERMINATE AT GRADE ON SPLASH BLOCK. REFER TO DETAIL 4/A-502.



1 SOUTH EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"



2 WEST EXTERIOR ELEVATION
SCALE: 1/8" = 1'-0"

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CAD DWG FILE:
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DRAWN BY: BDC
CHECKED BY: BDC
DESIGNED BY: BDC

SHEET TITLE:
SOUTH & WEST
EXTERIOR ELEVATIONS -
MASONRY MAINTENANCE

SHEET NUMBER:

A-201

SHEET 6 OF 10
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3/22/2024

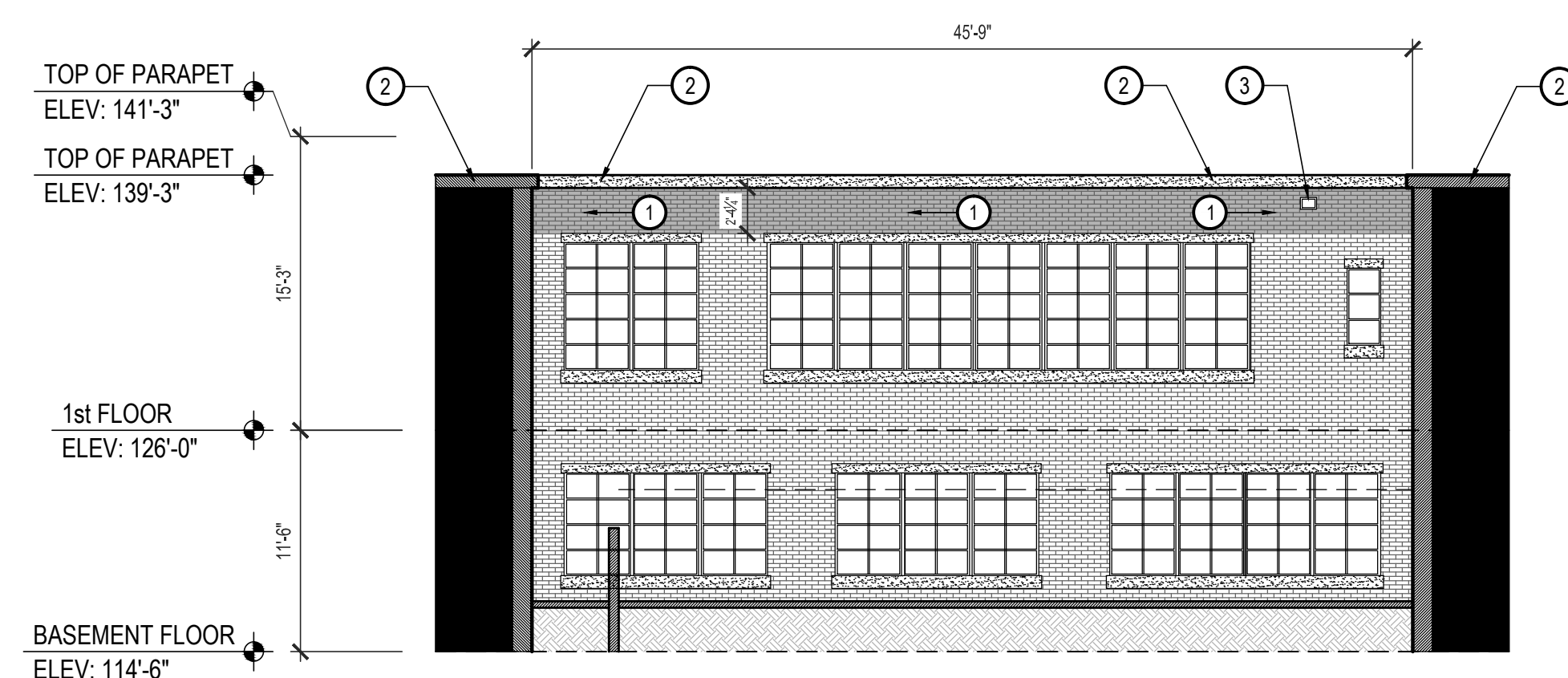
BRIAN DOUGLAS CONNELL ARCHITECT MO A-5036

GENERAL MASONRY MAINTENANCE NOTES: EDUCATION BUILDING No. 14

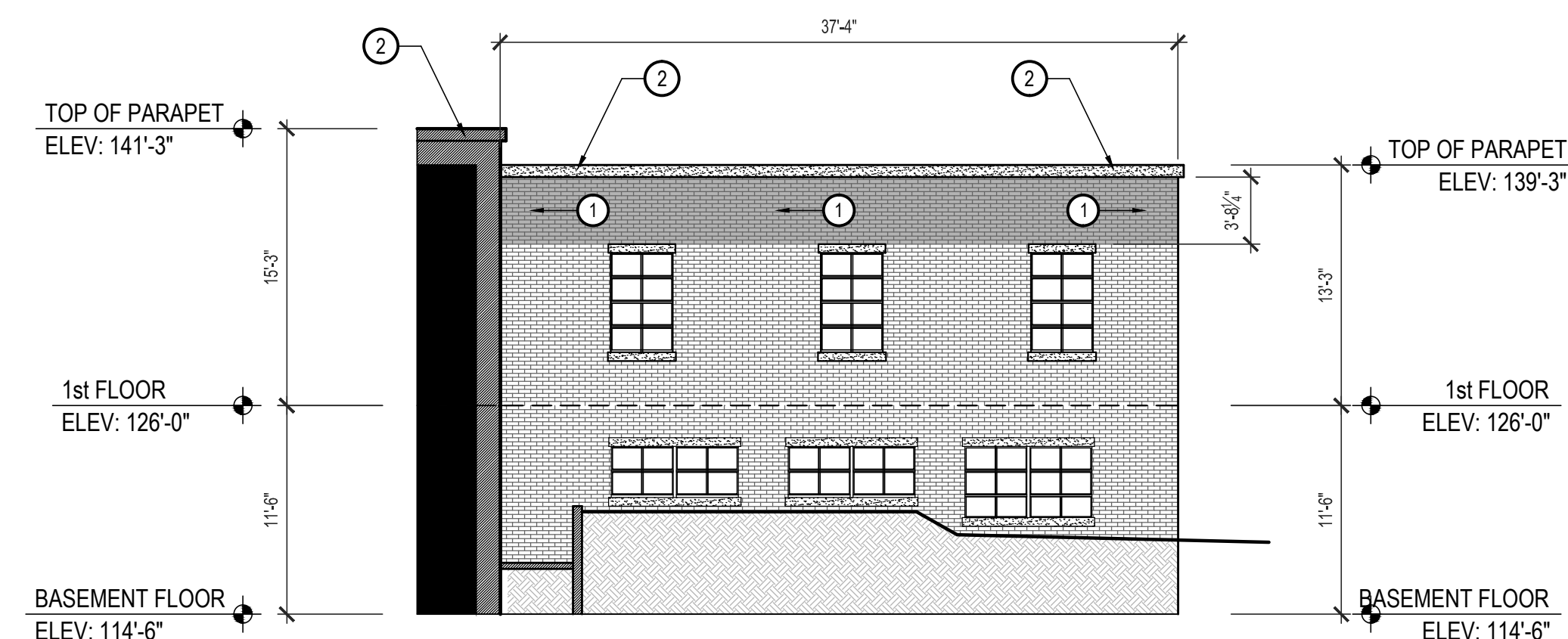
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KEYED MASONRY MAINTENANCE NOTES: EDUCATION BUILDING No. 14

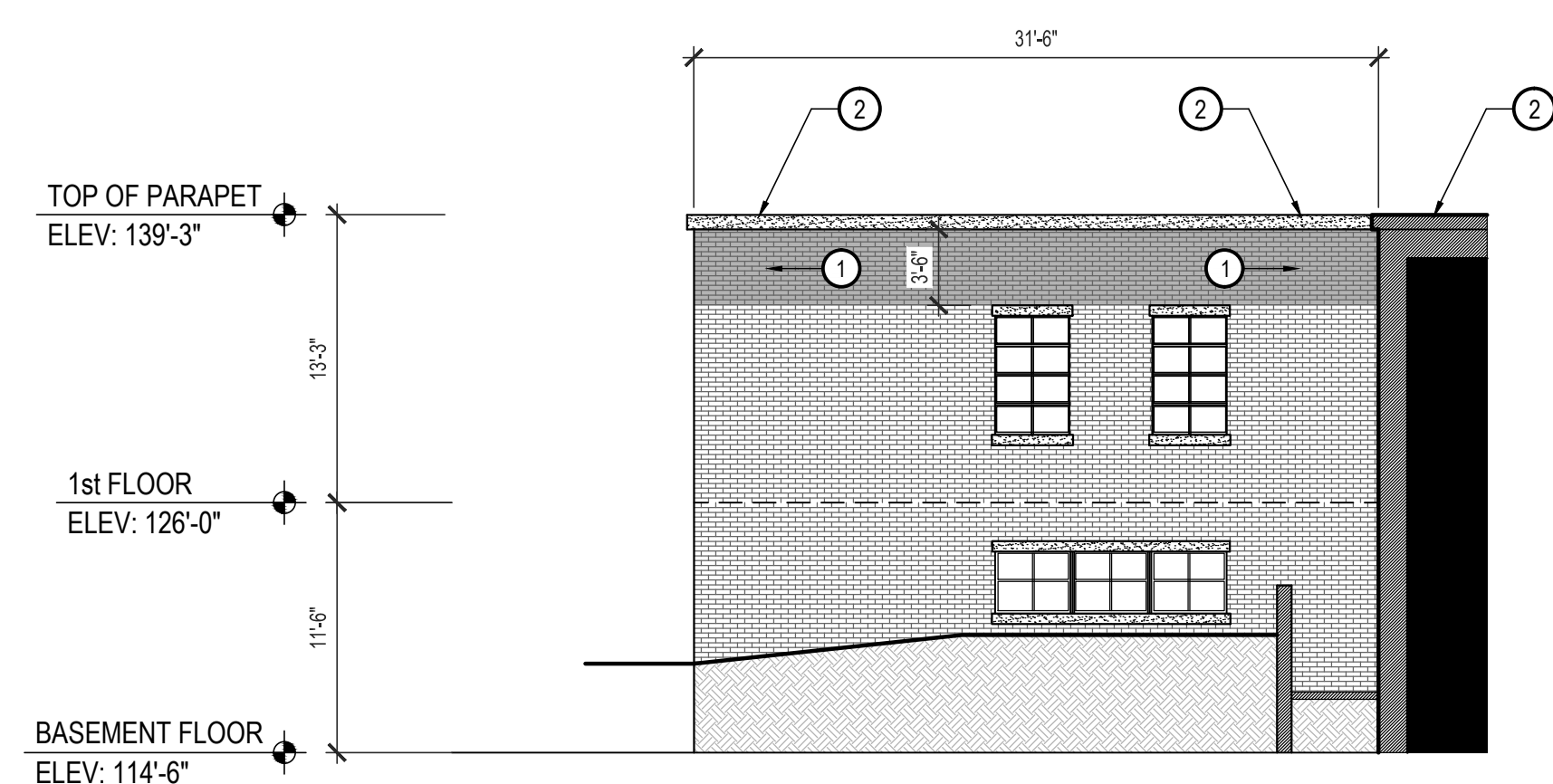
- CAREFULLY GRIND OR RAKE OUT DETERIORATED MORTAR AND SEALANT FROM ALL HEAD AND BED JOINTS IN BRICK MASONRY TO A MINIMUM DEPTH OF 3/8" OR TO SOUND MORTAR, TAKING CARE TO AVOID DAMAGING MASONRY EDGES AND SURFACES. CLEAN SURFACES AND PREPARE TO RECEIVE NEW MORTAR OR SEALANT. INSTALL NEW POINTING MORTAR TO MATCH EXISTING ADJOINING MORTAR IN COLOR, TEXTURE AND JOINT PROFILE TO ELIMINATE EVIDENCE OF REPLACEMENT.
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- REMOVE EXISTING THROUGH-WALL SCUPPER - INFILL OPENING WITH BRICK VENEER TO MATCH EXISTING ADJACENT BRICK.



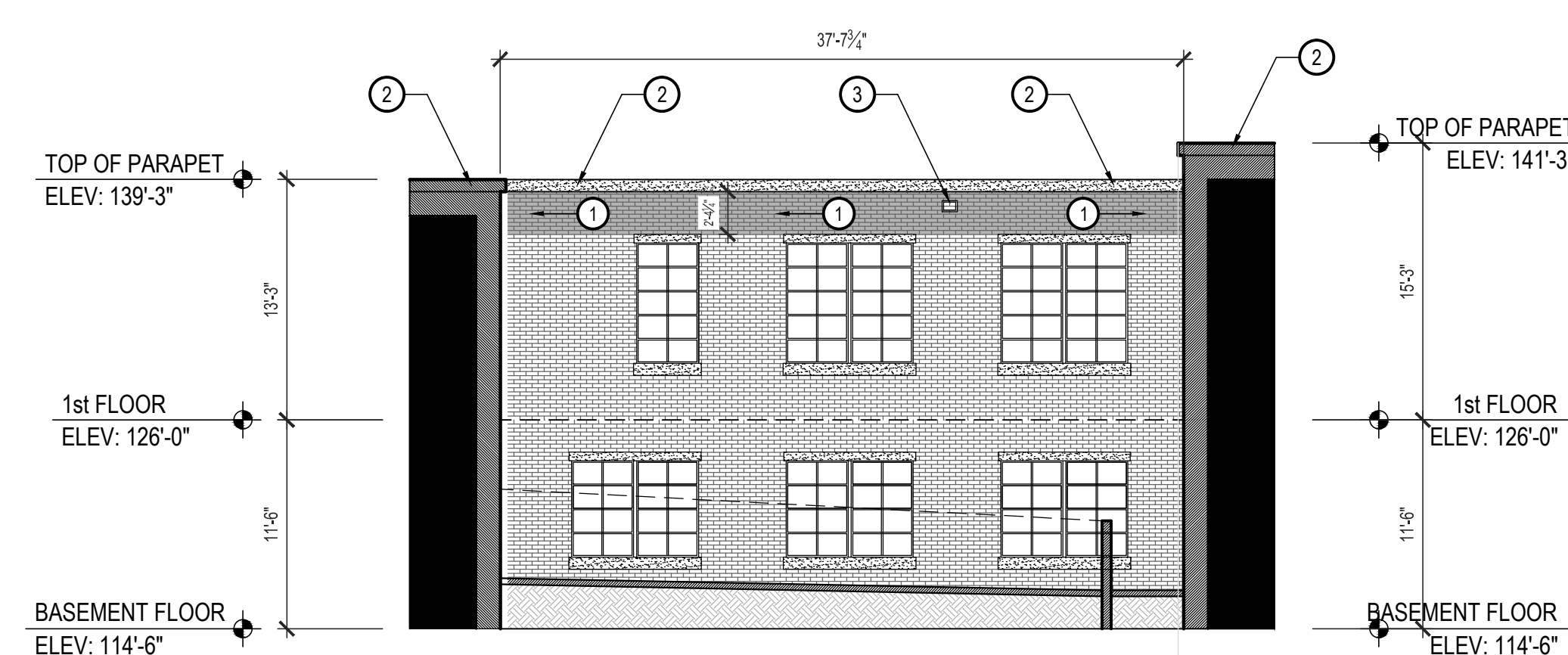
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COURTYARD - NORTH ELEVATION
SCALE: 1/8" = 1'-0"



2
A-202
COURTYARD - EAST ELEVATION
SCALE: 1/8" = 1'-0"



3
A-202
COURTYARD - SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



4
A-202
COURTYARD - WEST ELEVATION
SCALE: 1/8" = 1'-0"

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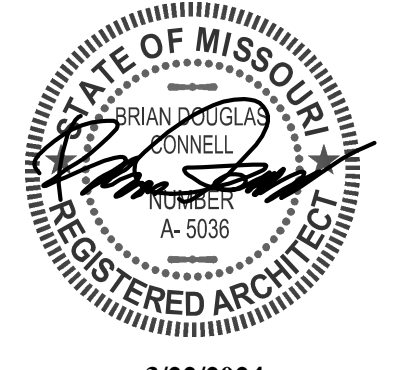
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DRAWN BY: BDC
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SHEET TITLE:
COURTYARD
EXTERIOR ELEVATIONS -
MASONRY MAINTENANCE

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A-202

SHEET 7 OF 10
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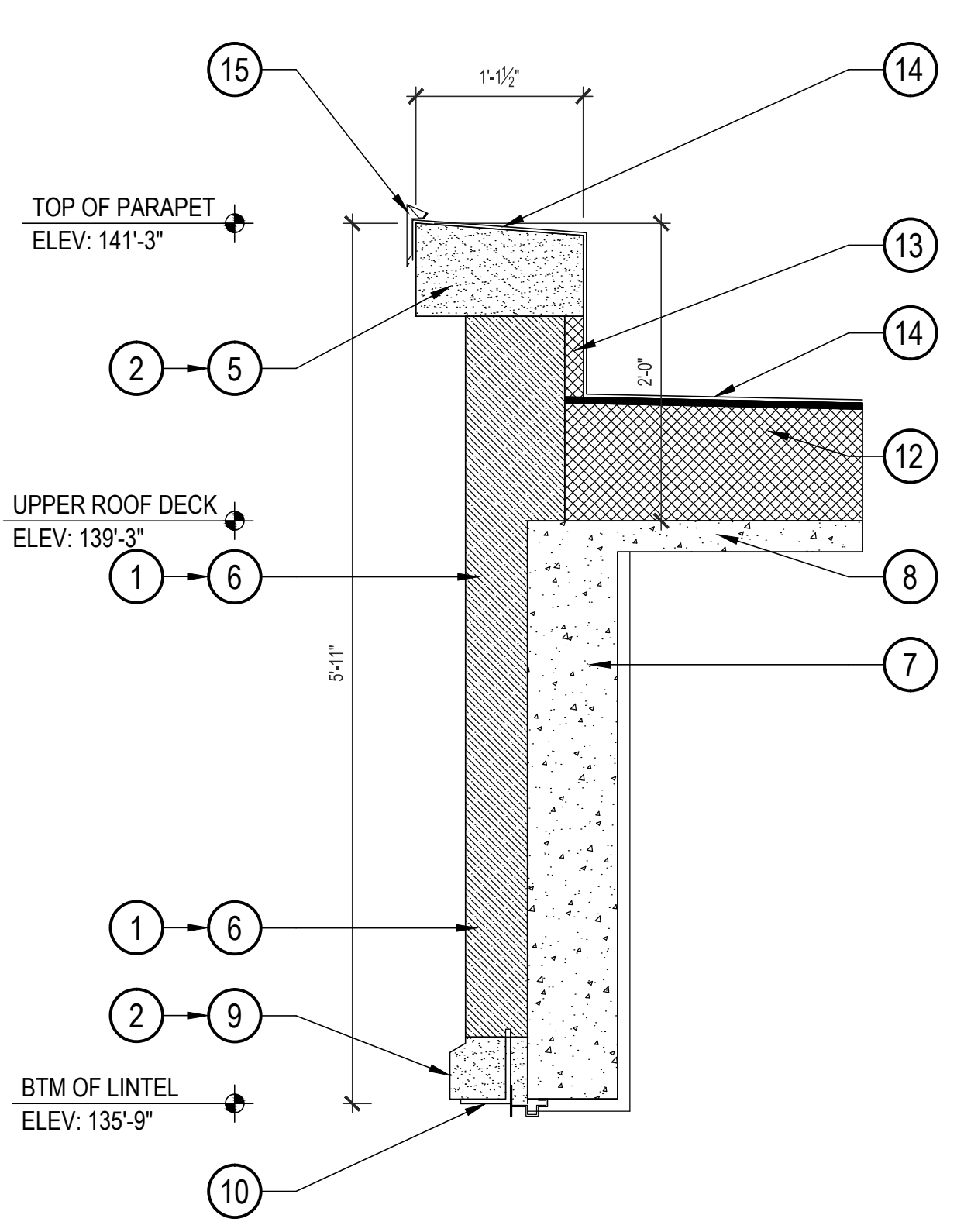


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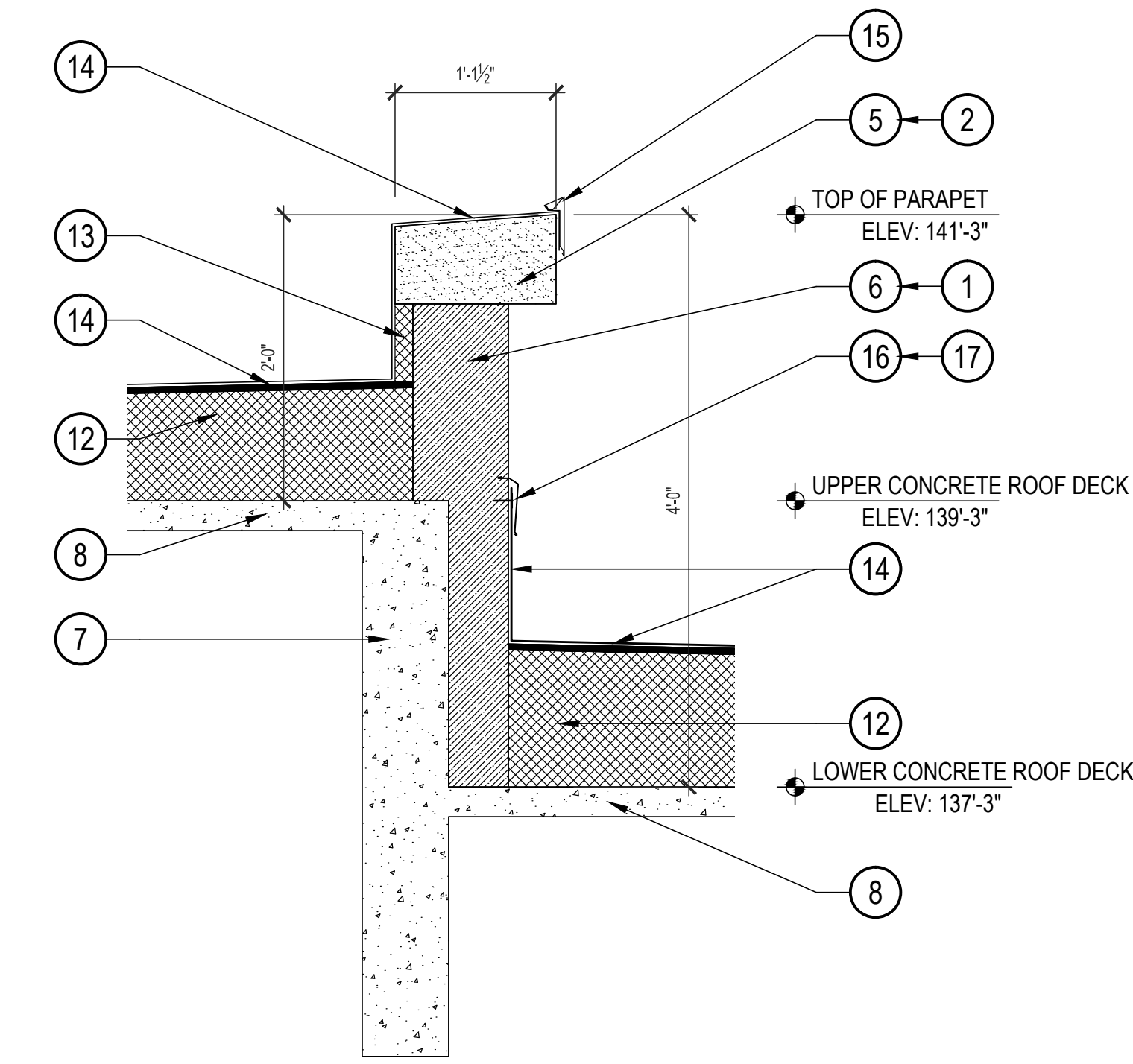
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 - CAREFULLY GRIND OR RAKE OUT DETERIORATED MORTAR AND SEALANT IN ALL HEAD JOINTS IN CUT STONE COPING AND WINDOW LINTELS - PREPARE SURFACES TO RECEIVE NEW MORTAR OR SEALANT.
 - CAREFULLY REMOVE AND REINSTALL OR REPLACE DETERIORATED BRICK AND STONE UNITS AS REQUIRED MAINTAIN THE INTEGRITY OF THE EXTERIOR MASONRY.
 - BASE BID INCLUDES 4,000 SF OF MASONRY TUCKPOINTING AND 100 SF OF BRICK OR STONE MASONRY UNIT REPLACEMENT. REFER TO SECTION 012200 UNIT PRICES.

- KEYED MASONRY MAINTENANCE NOTES: EDUCATION BUILDING No. 14**
- CAREFULLY GRIND OR RAKE OUT DETERIORATED MORTAR AND SEALANT FROM ALL HEAD AND BED JOINTS IN DESIGNATED AREAS OF BRICK MASONRY TO A MINIMUM DEPTH OF 1/2" OR TO SOUND MORTAR, TAKING CARE TO AVOID DAMAGING MASONRY EDGES AND SURFACES. CLEAN SURFACES AND PREPARE TO RECEIVE NEW MORTAR OR SEALANT. INSTALL NEW POINTING MORTAR TO MATCH EXISTING ADJOINING MORTAR IN COLOR, TEXTURE AND JOINT PROFILE TO ELIMINATE EVIDENCE OF REPLACEMENT.
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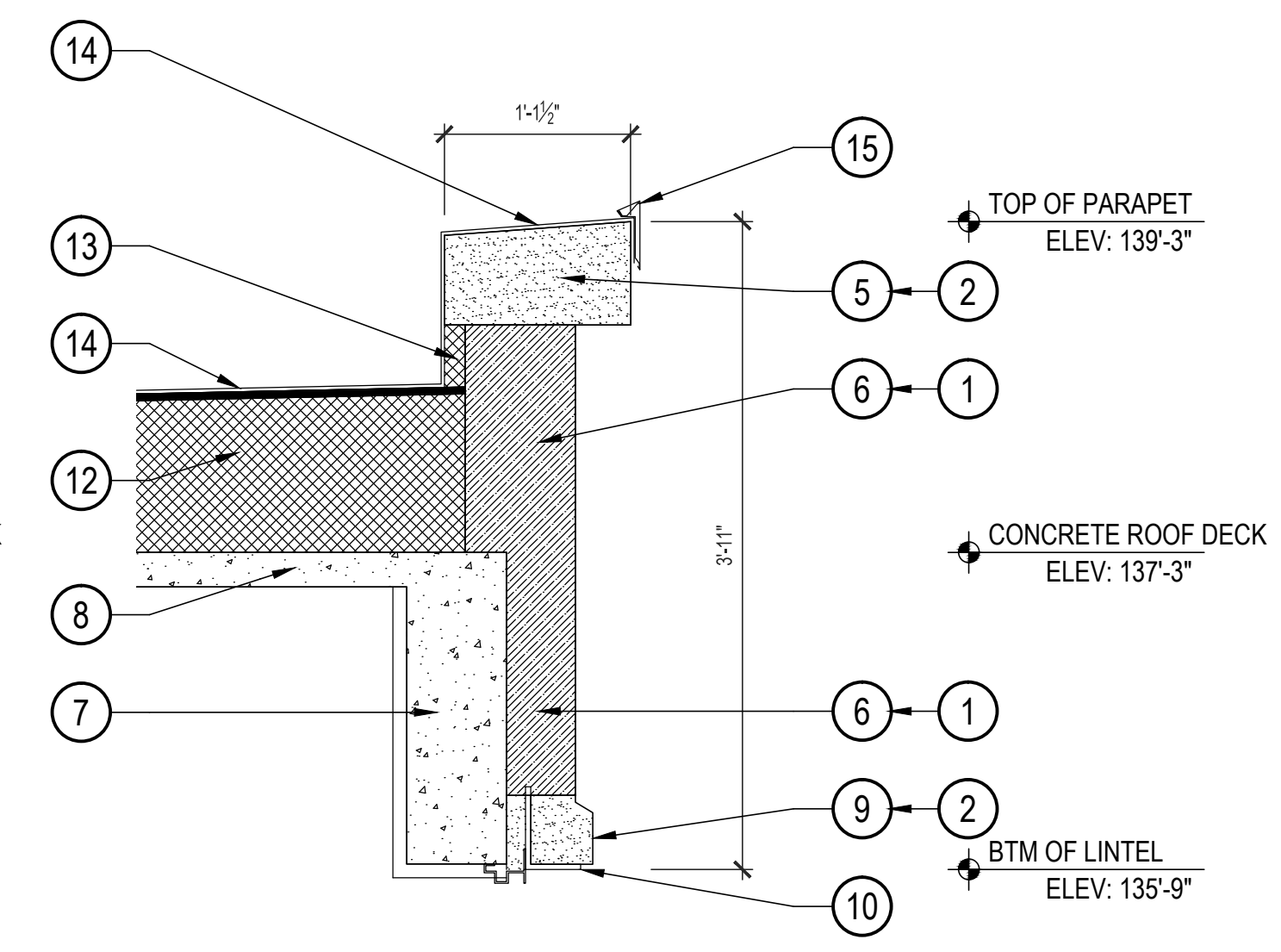
- KEYED ROOF REPLACEMENT NOTES: EDUCATION BUILDING No. 14**
- EXISTING CUT STONE COPING CONTINUOUS AT TOP OF PARAPET.
 - EXISTING BRICK MASONRY PARAPET WALL.
 - EXISTING STRUCTURAL CONCRETE BEAM AT PERIMETER OF ROOF DECK OR CURB OPENING.
 - EXISTING STRUCTURAL REINFORCED CONCRETE ROOF DECK (2 1/2" THICK).
 - EXISTING CUT STONE LINTEL CONTINUOUS AT TOP OF WINDOW OPENINGS.
 - EXISTING STEEL ANGLE LINTEL CONTINUOUS AT WINDOW OPENINGS.
 - EXISTING 1 1/2" STEEL ROOF DECK OVER STEEL JOISTS (SOUTH ROOF ONLY).
 - INSTALL 1/2" HIGH-DENSITY POLYISO COVER BOARD OVER TAPERED POLYISO INSULATION (MINIMUM AVERAGE R-30) MECHANICALLY-FASTENED TO STRUCTURAL ROOF DECK.
 - INSTALL RIGID INSULATION INFILL AT VERTICAL SURFACE OF PARAPET WALL TO PROVIDE FLUSH VERTICAL SURFACE FOR TPO MEMBRANE FLASHING UP AND OVER THE TOP OF THE PARAPET.
 - INSTALL 60-MIL TPO MEMBRANE FULLY-ADHERED TO NEW INSULATION SYSTEM - EXTEND UP AND OVER TOP OF PARAPET - TERMINATE UNDER NEW CONTINUOUS SHEET METAL EDGE FASCIA.
 - INSTALL NEW PRE-FINISHED 24 GAUGE SHEET METAL EDGE FASCIA SYSTEM AT TOP OF PARAPET.
 - EXTEND NEW 60-MIL TPO ROOF MEMBRANE UP VERTICAL FACE OF PARAPET - SEAL OFF WITH CONTINUOUS HORIZONTAL TERMINATION BAR ANCHORED INTO MASONRY.
 - INSTALL NEW PRE-FINISHED 24 GAUGE SHEET METAL COUNTERFLASHING INSERTED INTO CONTINUOUS SHEET METAL REGLET.
 - CURB-MOUNTED UNIT (ROOF HATCH, VENTILATOR, EXHAUST, ETC.). EXTEND TOP OF CURB TO MINIMUM 12" ABOVE NEW ROOF SURFACE.
 - WOOD 2x BLOCKING AS REQUIRED TO EXTEND TOP OF CURB TO 12" MINIMUM ABOVE ROOF MEMBRANE SURFACE - INTERIOR FACE CLAD WITH 1/2" PLYWOOD FLUSH WITH CURB.



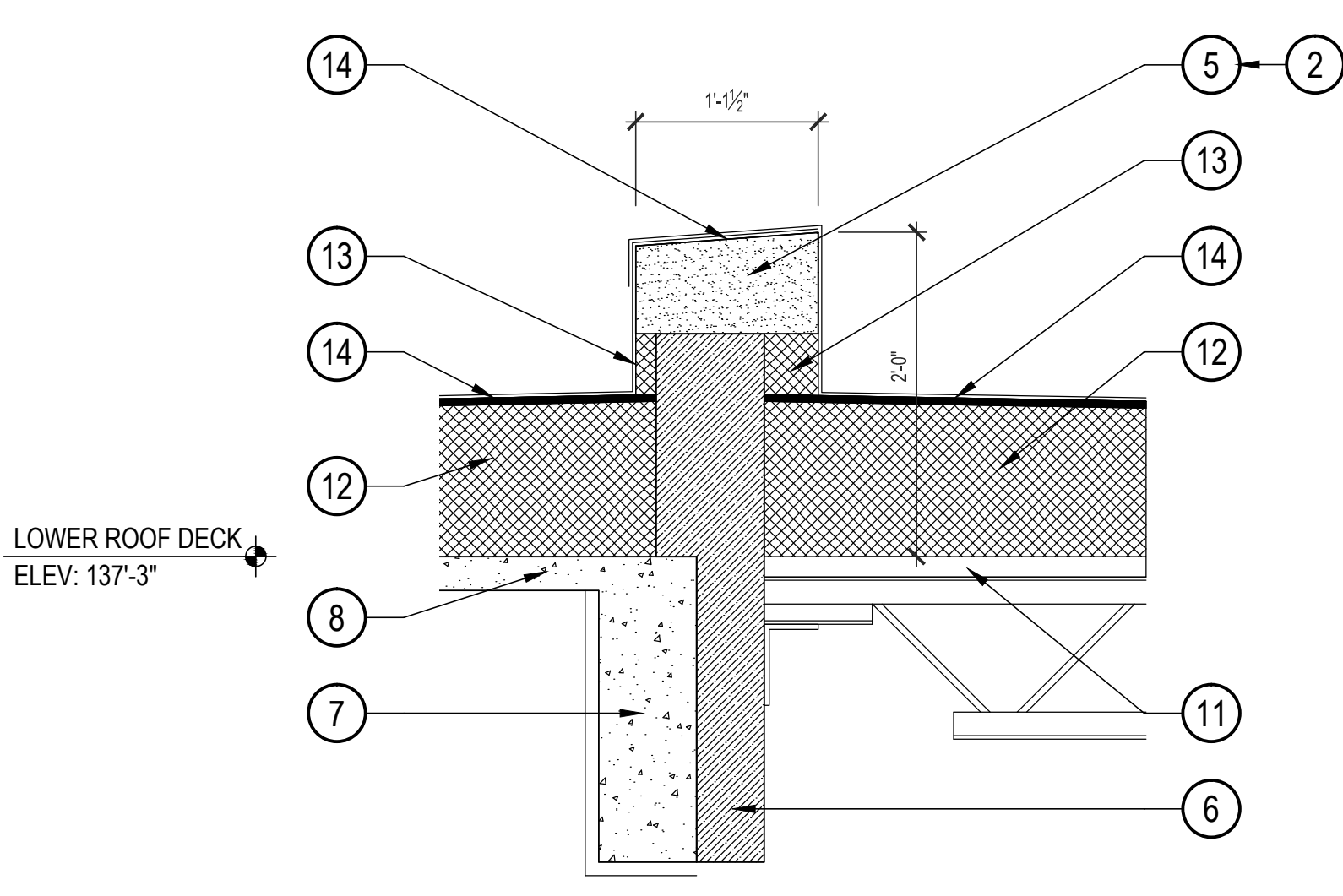
1 UPPER ROOF PARAPET
SCALE: 1" = 1'-0"



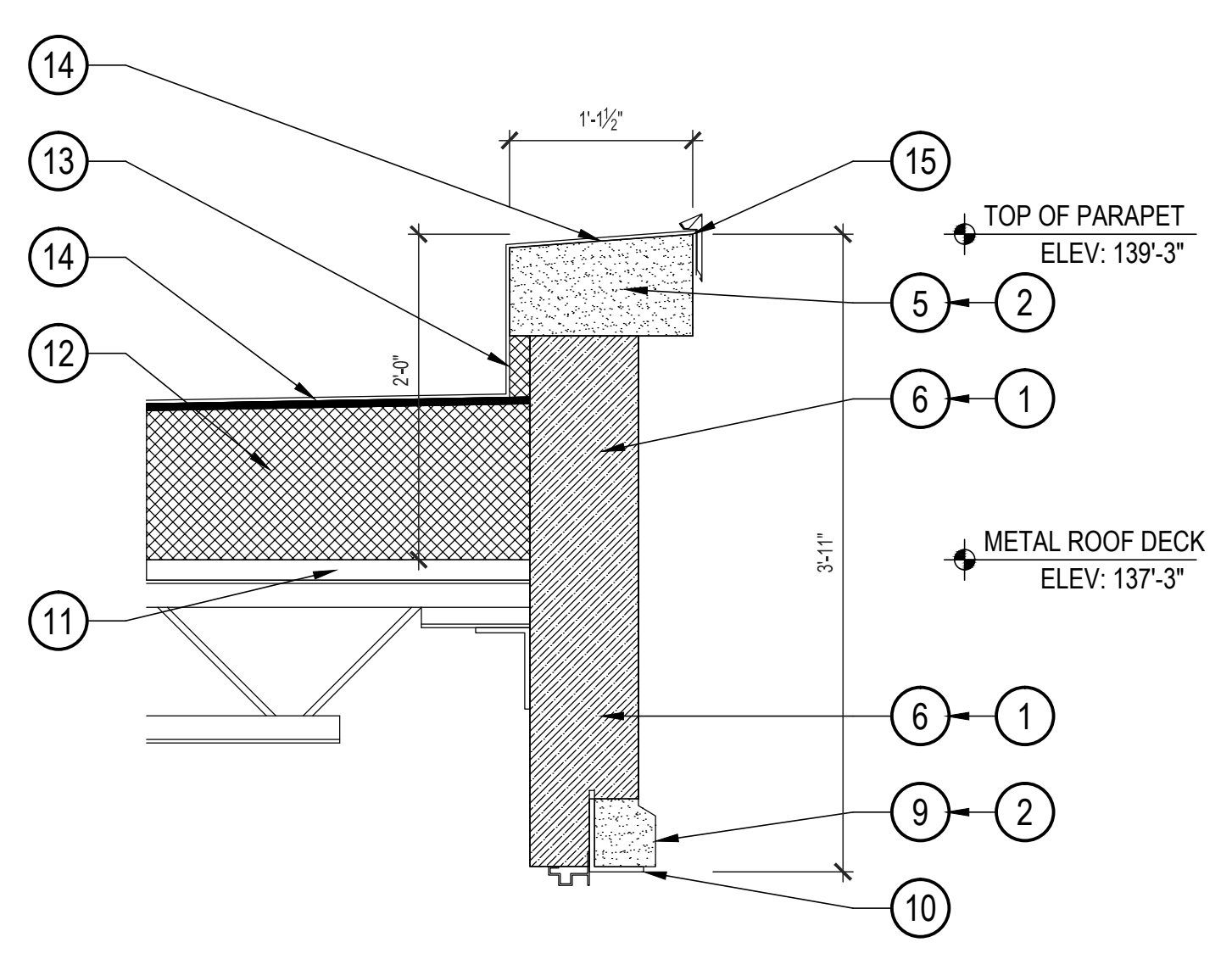
2 UPPER / LOWER ROOF PARAPET
SCALE: 1" = 1'-0"



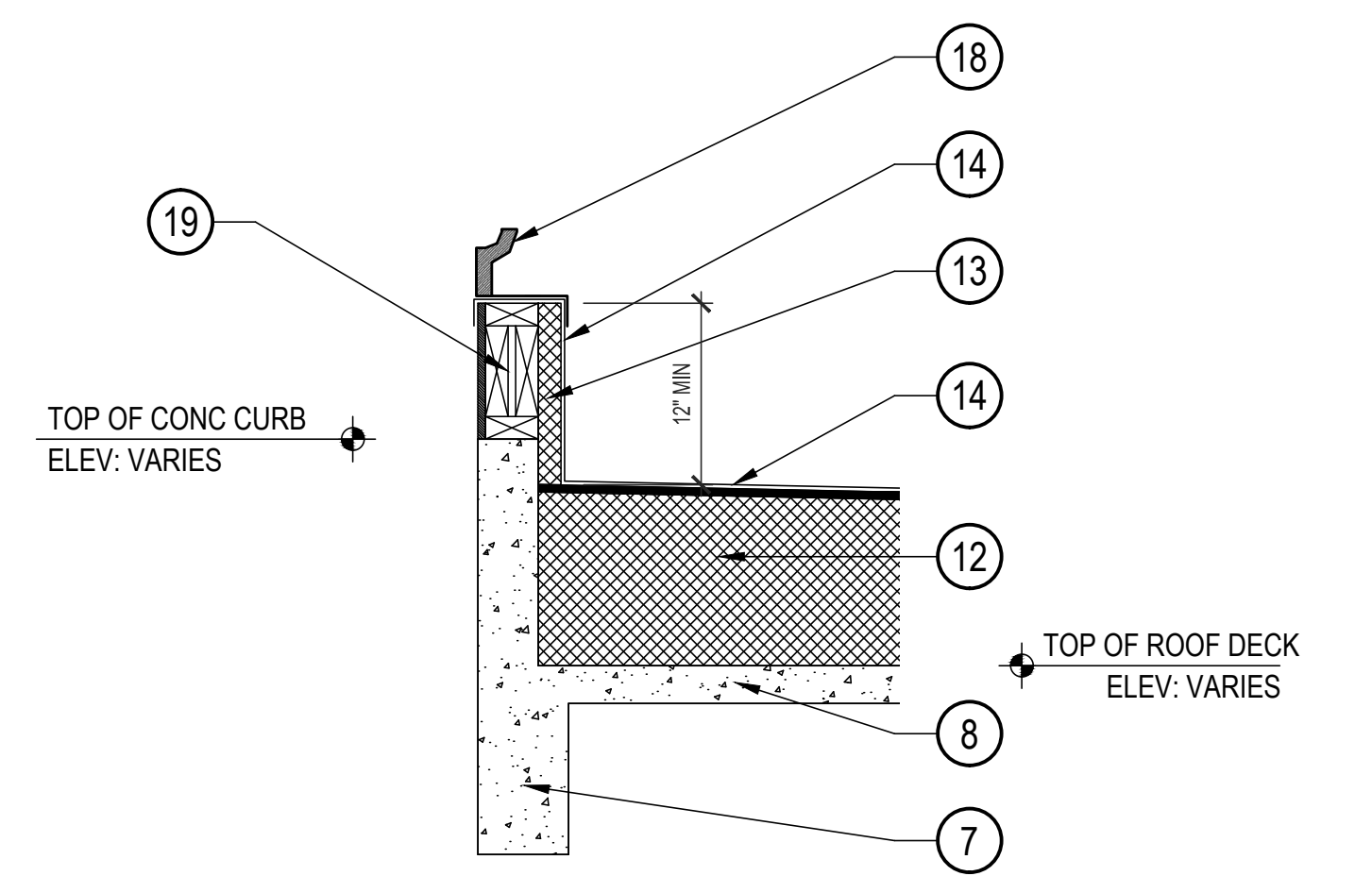
3 LOWER ROOF PARAPET
SCALE: 1" = 1'-0"




4 WEST / SOUTH ROOF PARAPET
SCALE: 1" = 1'-0"



5 SOUTH ROOF PARAPET
SCALE: 1" = 1'-0"



6 ROOF CURB DETAIL
SCALE: 1" = 1'-0"

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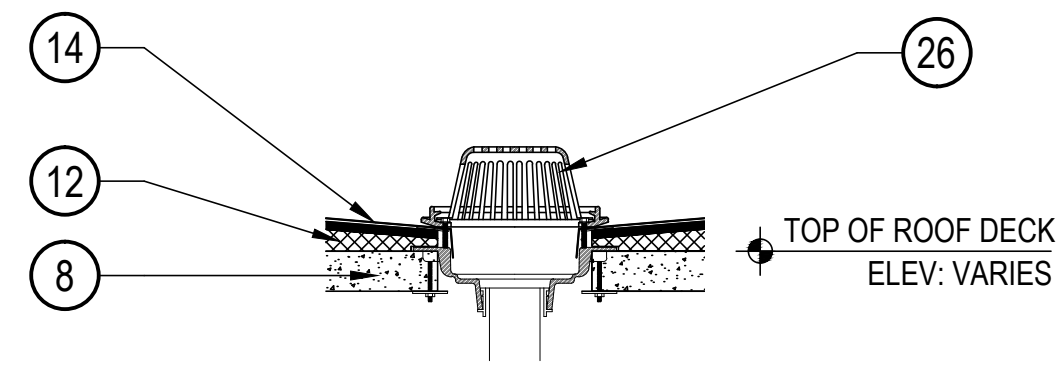
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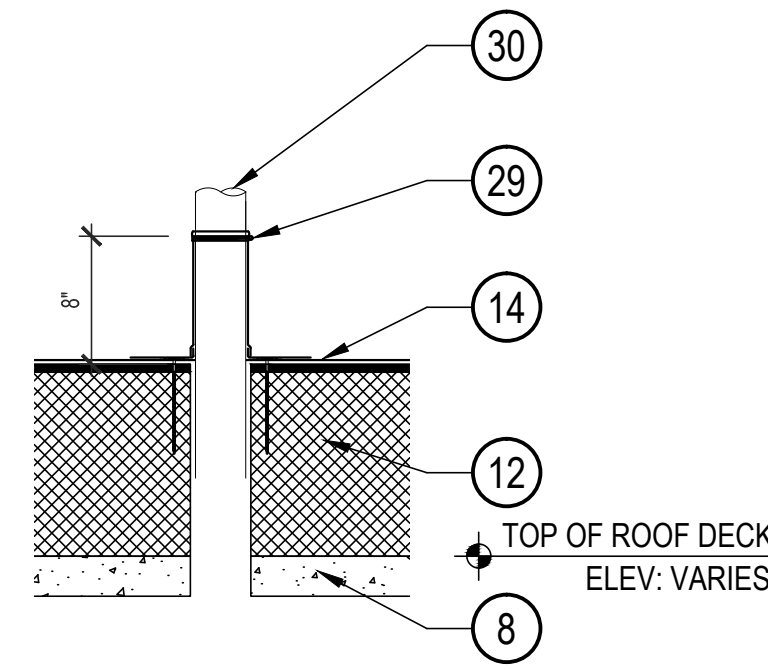
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DESIGNED BY: BDC
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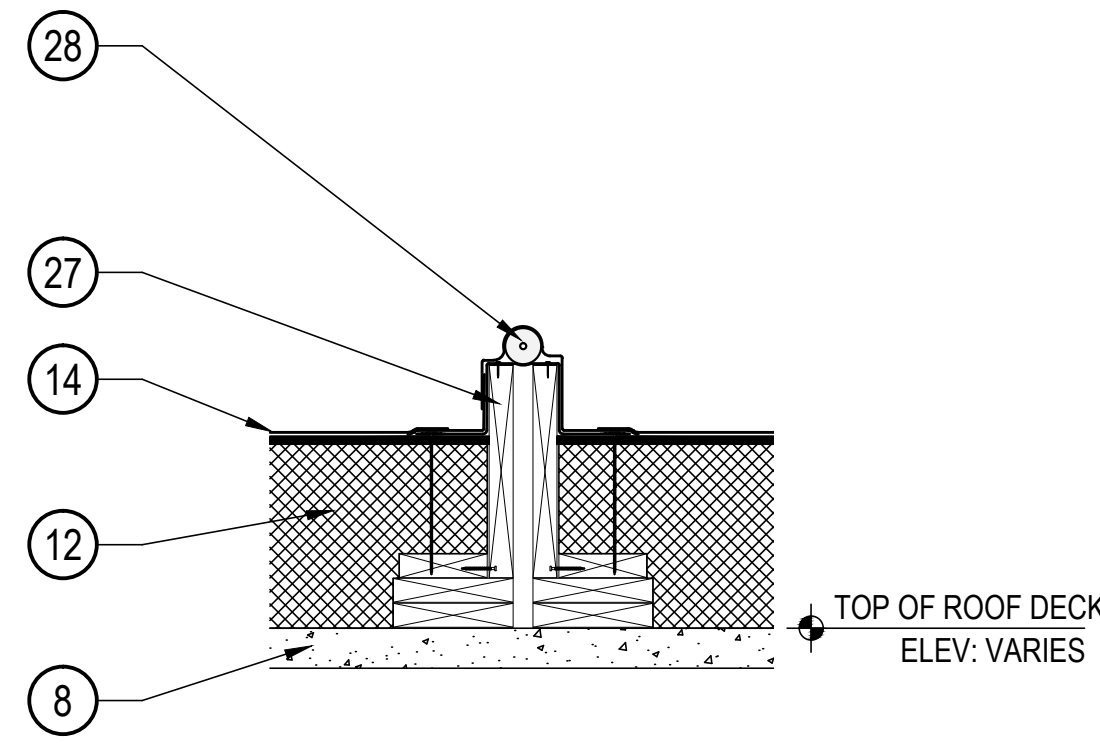
WALL & ROOF DETAILS
SHEET NUMBER:
A-500
SHEET 8 OF 10
ISSUE DATE: 3/22/2024



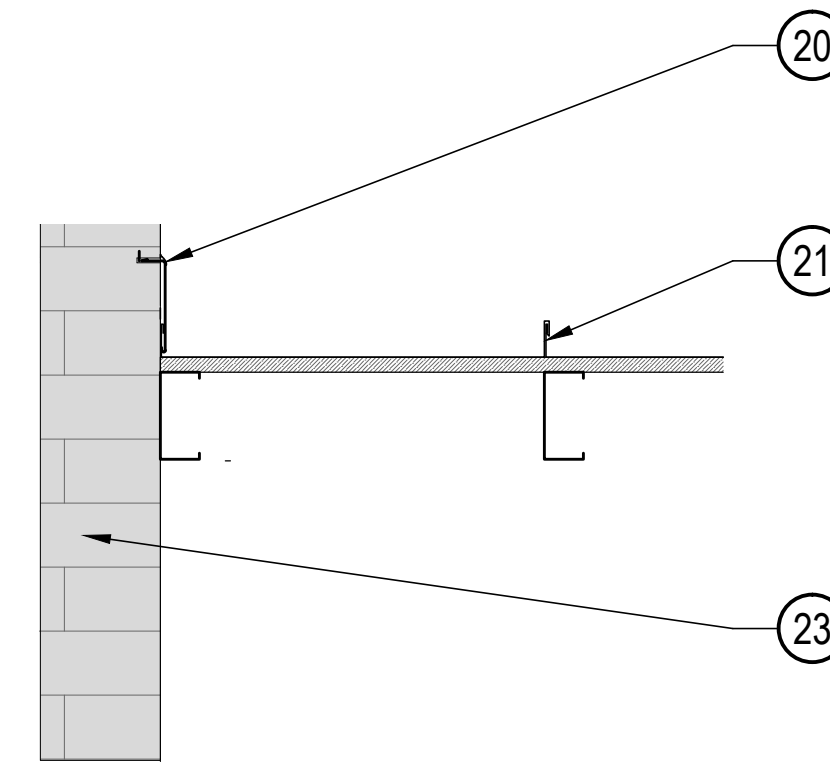
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A-501 **ROOF DRAIN DETAIL**
SCALE: 1" = 1'-0"



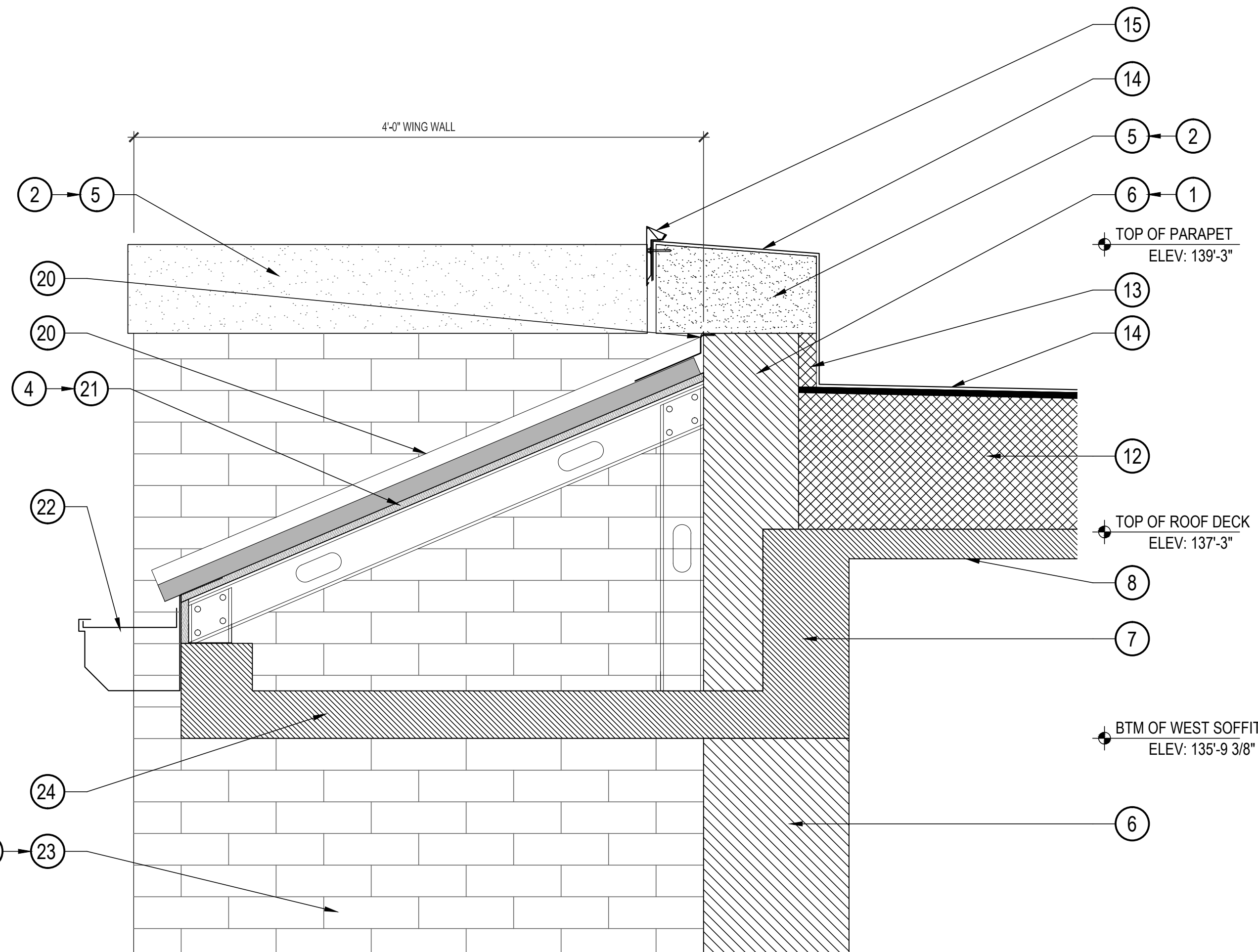
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A-501 **VTR BOOT DETAIL**
SCALE: 1" = 1'-0"



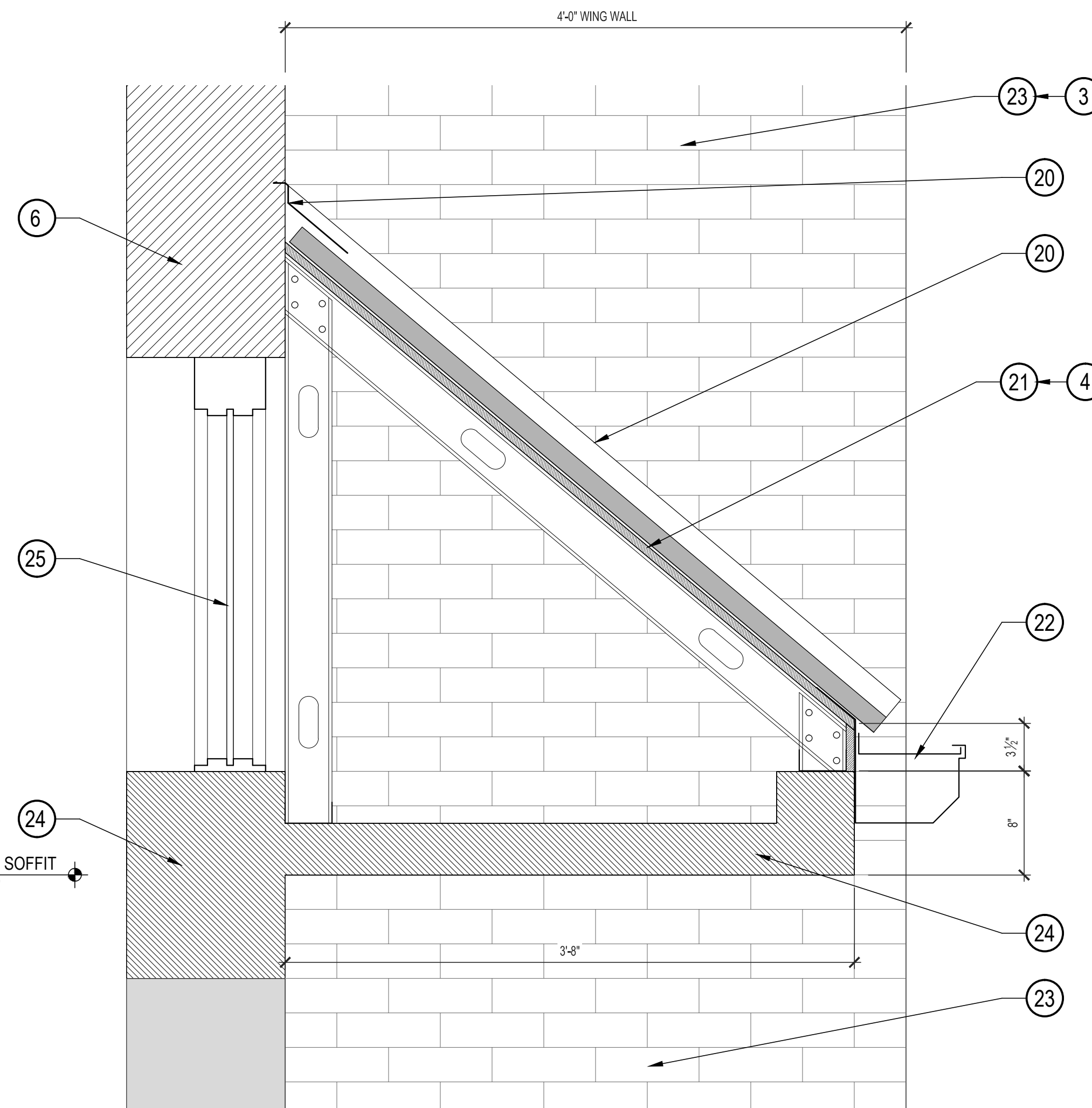
3
A-501 **ROOF EXPANSION JOINT**
SCALE: 1" = 1'-0"



4
A-501 **ROOF-TO-WALL DETAIL**
SCALE: 1 1/2" = 1'-0"



5
A-501 **WEST CANOPY ROOF**
SCALE: 1 1/2" = 1'-0"



6
A-501 **EAST CANOPY ROOF**
SCALE: 1 1/2" = 1'-0"

GENERAL MASONRY MAINTENANCE NOTES: EDUCATION BUILDING No. 14

- CONTRACTOR SHALL COORDINATE ALL DEMOLITION AND REMOVAL OF DEMOLITION MATERIALS WITH OTHER WORK SEQUENCES AND OWNER OCCUPANCY REQUIREMENTS.
- CAREFULLY GRIND OR RAKE OUT DETERIORATED MORTAR IN ALL HEAD AND BED JOINTS IN THE EXTERIOR BRICK MASONRY WALL AREAS DESIGNATED FOR MASONRY MAINTENANCE. CLEAN AND PREPARE SURFACES TO RECEIVE NEW MORTAR OR SEALANT.
- CAREFULLY GRIND OR RAKE OUT DETERIORATED MORTAR AND SEALANT IN ALL HEAD JOINTS IN CUT STONE COPING AND WINDOW LINTELS - PREPARE SURFACES TO RECEIVE NEW MORTAR OR SEALANT.
- CAREFULLY REMOVE AND REINSTALL OR REPLACE DETERIORATED BRICK AND STONE UNITS AS REQUIRED MAINTAIN THE INTEGRITY OF THE EXTERIOR MASONRY.
- BASE BID INCLUDES 4,000 SF OF MASONRY TUCKPOINTING AND 100 SF OF BRICK OR STONE MASONRY UNIT REPLACEMENT. REFER TO SECTION 012200 UNIT PRICES.

KEYED MASONRY MAINTENANCE NOTES: EDUCATION BUILDING No. 14

- CAREFULLY GRIND OR RAKE OUT DETERIORATED MORTAR AND SEALANT FROM ALL HEAD AND BED JOINTS IN DESIGNATED AREAS OF BRICK MASONRY TO A MINIMUM DEPTH OF 3/4" OR TO SOUND MORTAR, TAKING CARE TO AVOID DAMAGING MASONRY EDGES AND SURFACES. CLEAN SURFACES AND PREPARE TO RECEIVE NEW MORTAR OR SEALANT. INSTALL NEW POINTING MORTAR TO MATCH EXISTING ADJOINING MORTAR IN COLOR, TEXTURE AND JOINT PROFILE TO ELIMINATE EVIDENCE OF REPLACEMENT.
- CAREFULLY GRIND OR RAKE OUT DETERIORATED MORTAR AND SEALANT FROM ALL HEAD AND BED JOINTS IN DESIGNATED AREAS OF BRICK MASONRY TO A MINIMUM DEPTH OF 3/4" OR TO SOUND MORTAR, TAKING CARE TO AVOID DAMAGING MASONRY EDGES AND SURFACES. CLEAN SURFACES AND PREPARE TO RECEIVE NEW MORTAR OR SEALANT. INSTALL NEW POINTING MORTAR TO MATCH EXISTING ADJOINING MORTAR IN COLOR, TEXTURE AND JOINT PROFILE TO ELIMINATE EVIDENCE OF REPLACEMENT.
- ENTRANCE WING WALLS: CAREFULLY GRIND OR RAKE OUT DETERIORATED MORTAR AND SEALANT FROM ALL HEAD AND BED JOINTS IN DESIGNATED AREAS OF BRICK MASONRY TO A MINIMUM DEPTH OF 3/4" OR TO SOUND MORTAR, TAKING CARE TO AVOID DAMAGING MASONRY EDGES AND SURFACES. CLEAN SURFACES AND PREPARE TO RECEIVE NEW MORTAR OR SEALANT. INSTALL NEW POINTING MORTAR TO MATCH EXISTING ADJOINING MORTAR IN COLOR, TEXTURE AND JOINT PROFILE TO ELIMINATE EVIDENCE OF REPLACEMENT.
- STANDING SEAM METAL ROOF OVER ENTRANCE CANOPIES: INSTALL NEW 24 GAUGE STANDING SEAM METAL ROOF PANELS OVER 40 MIL SELF-ADHERING UNDERLAYMENT OVER 1/2" PLYWOOD SUBDECK OVER LIGHT-GAUGE METAL FRAMING OVER EXISTING STRUCTURAL CONCRETE DECK - DRAIN TO 24 GAUGE SHEET METAL GUTTER AND DOWNSPOUTS. (COVER EXISTING TRANSOM)

KEYED ROOF REPLACEMENT NOTES: EDUCATION BUILDING No. 14

- EXISTING CUT STONE COPING CONTINUOUS AT TOP OF PARAPET.
- EXISTING BRICK MASONRY PARAPET WALL.
- EXISTING STRUCTURAL CONCRETE BEAM AT PERIMETER OF ROOF DECK OR CURB OPENING.
- EXISTING STRUCTURAL REINFORCED CONCRETE ROOF DECK (2 1/2" THICK).
- NOT USED
- NOT USED
- NOT USED
- NOT USED
- NOT USED
- INSTALL 1/2" HIGH-DENSITY POLYISO COVER BOARD OVER TAPERED POLYISO INSULATION (MINIMUM AVERAGE R-30) MECHANICALLY-FASTENED TO STRUCTURAL ROOF DECK.
- INSTALL RIGID INSULATION INFILL AT VERTICAL SURFACE OF PARAPET WALL TO PROVIDE FLUSH VERTICAL SURFACE FOR TPO MEMBRANE FLASHING UP AND OVER THE TOP OF THE PARAPET.
- INSTALL 60-MIL TPO MEMBRANE FULLY-ADHERED TO NEW INSULATION SYSTEM - EXTEND UP AND OVER TOP OF PARAPET - TERMINATE UNDER NEW CONTINUOUS SHEET METAL EDGE FASCIA.
- INSTALL NEW PRE-FINISHED 24 GAUGE SHEET METAL EDGE FASCIA SYSTEM AT TOP OF PARAPET.
- NOT USED
- NOT USED
- NOT USED
- NOT USED
- NOT USED
- PRE-FINISHED 24 GAUGE SHEET METAL COUNTERFLASHING AT SLOPED ROOF-TO-WALL CONDITION - INSERT INTO SAW-CUT REGLET IN MASONRY. DETAIL 4/A-501.
- PRE-FINISHED 24 GAUGE STANDING SEAM METAL ROOF PANELS OVER 40-MIL SELF-ADHERING UNDERLAYMENT OVER 1/2" EXTERIOR-GRADE PLYWOOD ROOF DECK OVER 16 GAUGE 3 1/2" METAL STUD RAFTERS @ 16" O.C. - VERTICAL STUDS AND SILL CHANNEL ANCHORED TO EXISTING STRUCTURE.
- PRE-FINISHED 24 GAUGE 8" SHEET METAL GUTTER & DOWNSPOUT.
- EXISTING BRICK MASONRY WING WALL AT EACH SIDE OF EAST AND WEST ENTRANCE CANOPIES.
- EXISTING STRUCTURAL CONCRETE CANOPY ROOF DECK (4" THICK). DETAILS 5/A-501 & 6/A-501.
- EXISTING TRANSOM WINDOWS OVER EAST ENTRANCE CANOPY - APPLY OPAQUE FILM TO INSIDE SURFACE OF GLAZING. DETAIL 6/A-501.
- NEW 4" Ø CAST IRON ROOF DRAIN & DOME STRAINER. DETAIL 1/A-501.
- NEW 2x WOOD BLOCKING AS REQUIRED TO FORM ROOF EXPANSION JOINT WHERE SHOWN - ANCHORED TO ROOF DECK.
- 2" Ø COMPRESSIBLE TUBE AT TOP OF ROOF EXPANSION JOINT.
- PRE-FABRICATED MEMBRANE FLASHING BOOT WITH DRAWBAND - MINIMUM 8" HEIGHT ABOVE ROOF SURFACE.
- EXTEND EXISTING VENT PIPE A MINIMUM OF 12" ABOVE ROOF SURFACE. REFER TO DETAIL 2/A-501.



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REPLACE ROOF
EDUCATION BLDG No. 14
BOONVILLE CORRECTIONAL
CENTER

1216 EAST MORGAN ST.
BOONVILLE, MO 65233

PROJECT No. C2311-01
SITE No. 7002
ASSET No. 9327002024

REVISION:
DATE:
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DATE:
ISSUE DATE: 3/22/2024

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DRAWN BY: BDC
CHECKED BY: BDC
DESIGNED BY: BDC

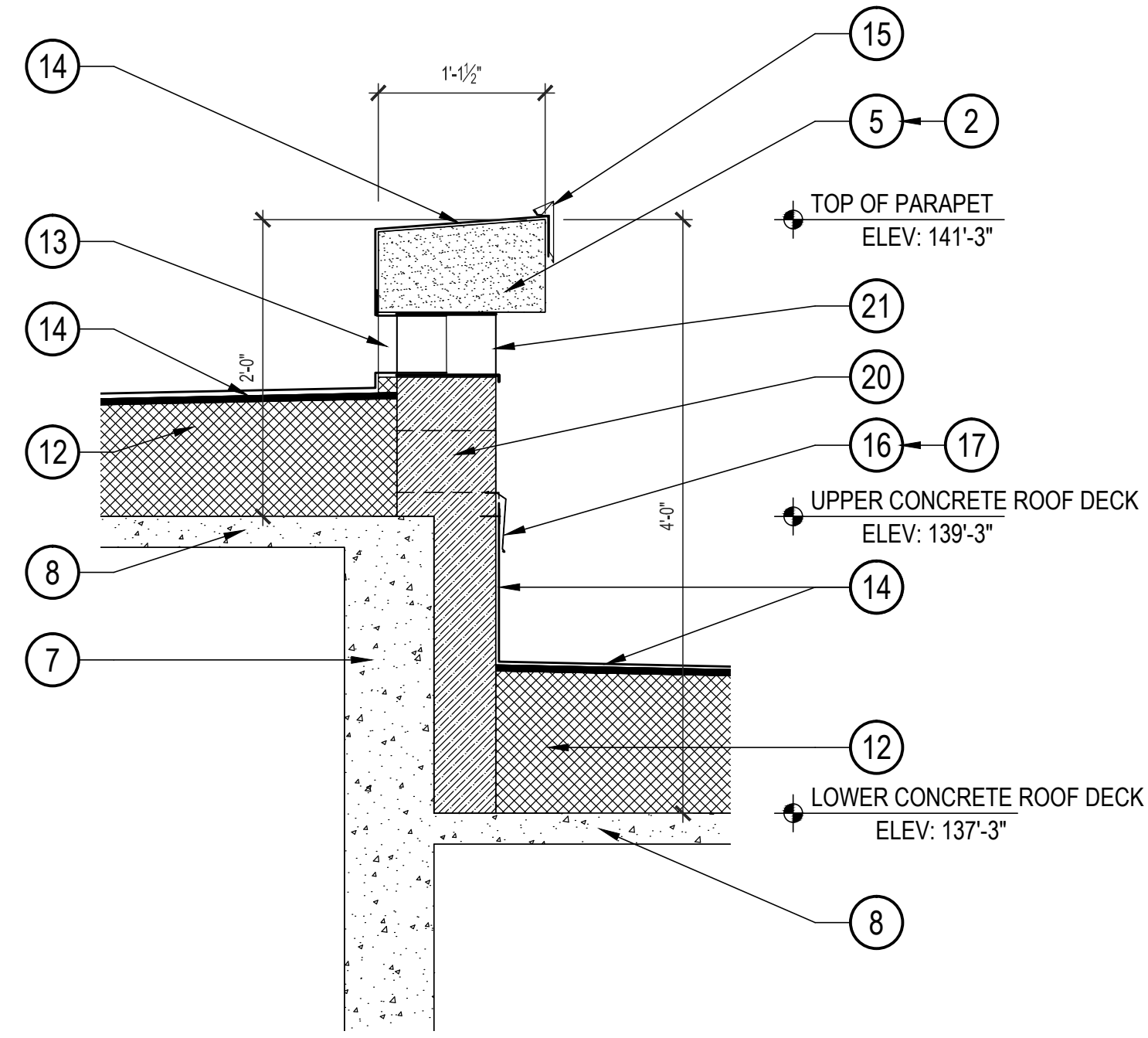
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ROOF DETAILS

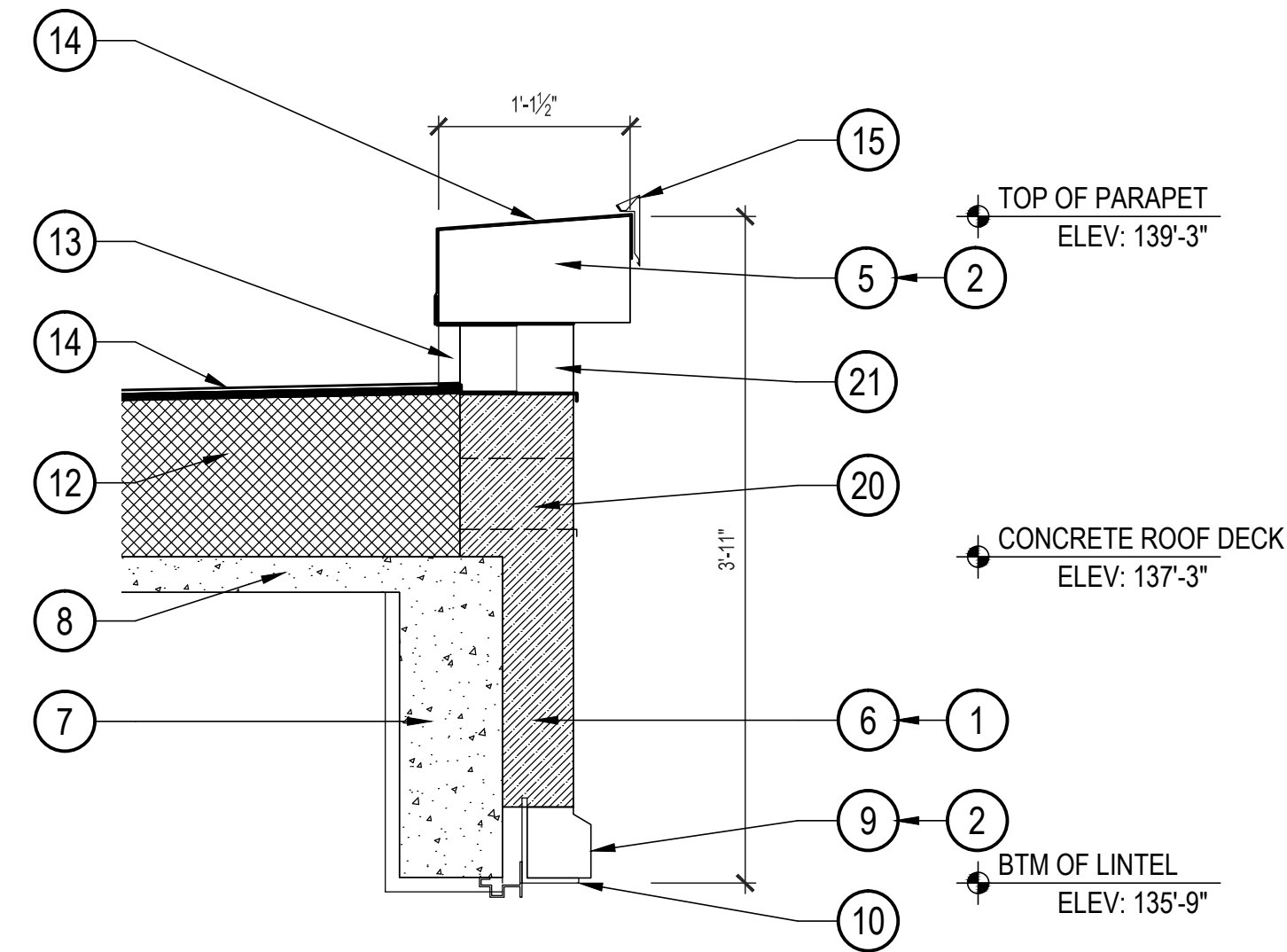
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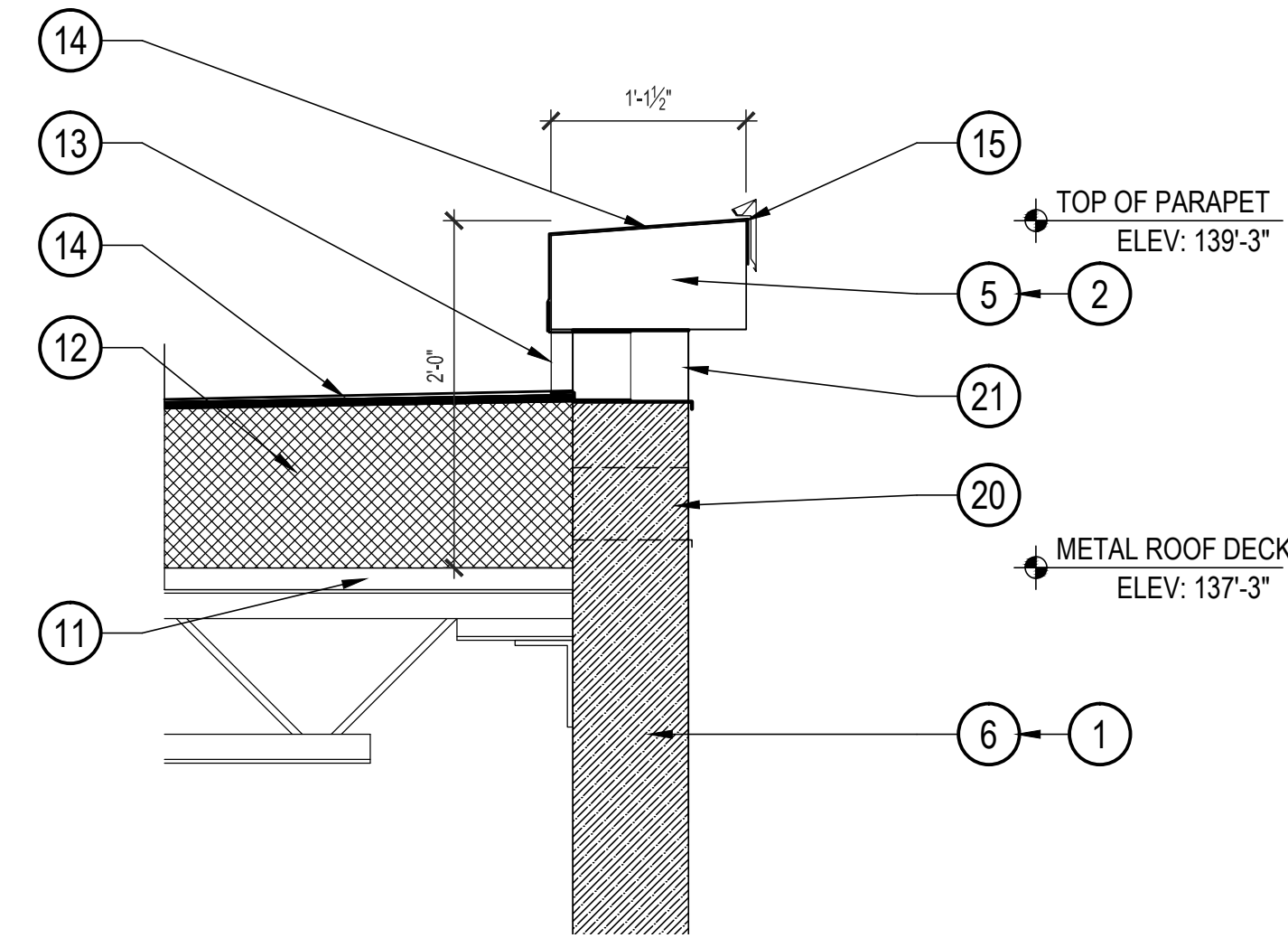
SHEET 9 OF 10
ISSUE DATE: 3/22/2024



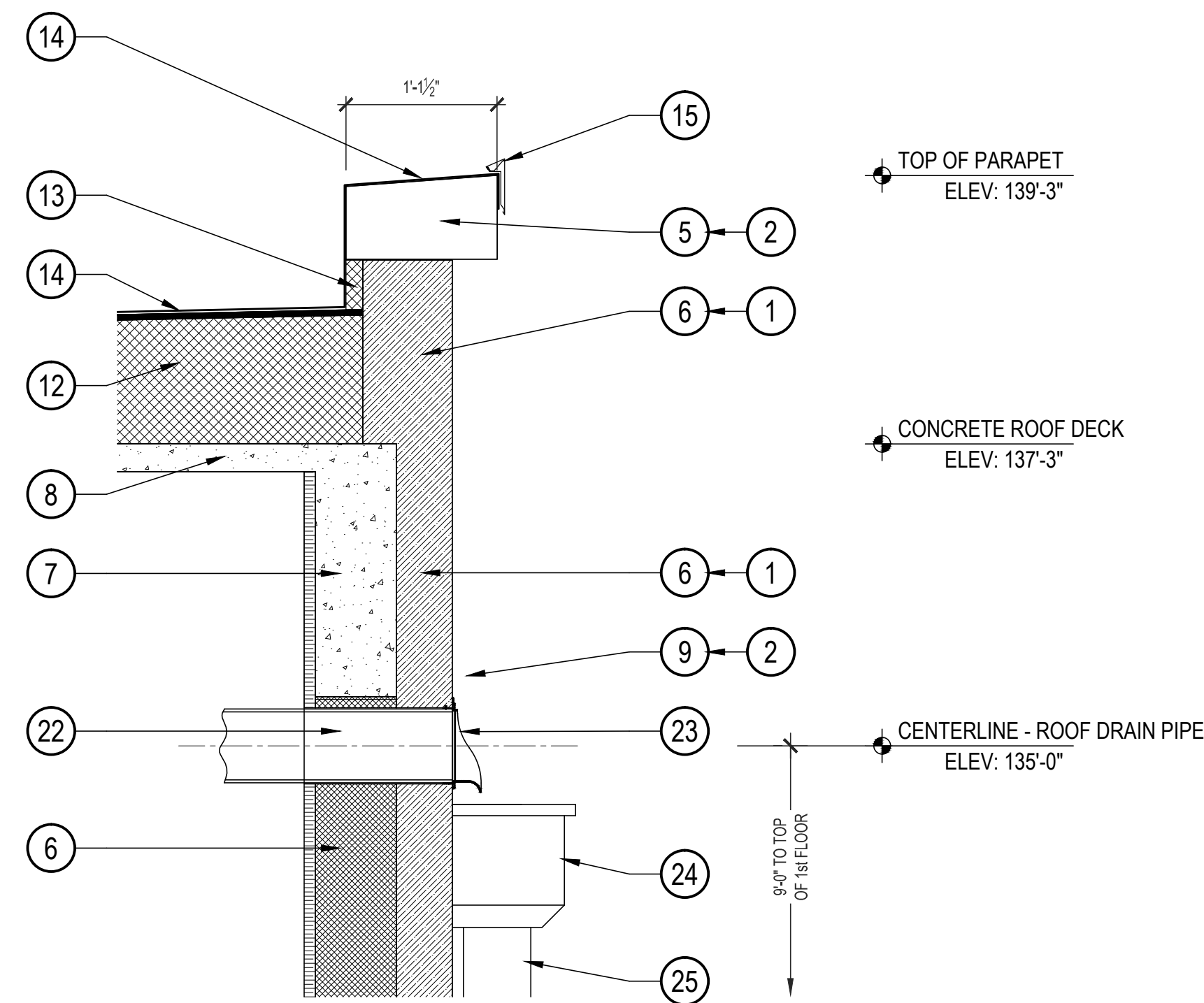
1 UPPER ROOF - OVERFLOW WEIR
SCALE: 1" = 1'-0"



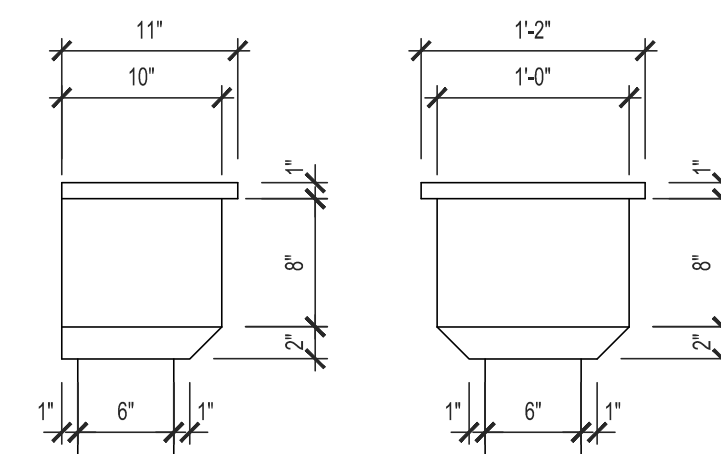
2 LOWER ROOF - OVERFLOW WEIR
SCALE: 1" = 1'-0"



3 SOUTH ROOF - OVERFLOW WEIR
SCALE: 1" = 1'-0"



4 ROOF DRAIN - DOWNSPOUT NOZZLE & LEADER HEAD
SCALE: 1" = 1'-0"



LEADER HEAD DIMENSIONS

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- CAREFULLY GRIND OR RAKE OUT DETERIORATED MORTAR IN ALL HEAD AND BED JOINTS IN THE EXTERIOR BRICK MASONRY WALL AREAS DESIGNATED FOR MASONRY MAINTENANCE. CLEAN AND PREPARE SURFACES TO RECEIVE NEW MORTAR OR SEALANT.
- CAREFULLY GRIND OR RAKE OUT DETERIORATED MORTAR AND SEALANT IN ALL HEAD JOINTS IN CUT STONE COPING AND WINDOW LINTELS - PREPARE SURFACES TO RECEIVE NEW MORTAR OR SEALANT.
- CAREFULLY REMOVE AND REINSTALL OR REPLACE DETERIORATED BRICK AND STONE UNITS AS REQUIRED MAINTAIN THE INTEGRITY OF THE EXTERIOR MASONRY.
- BASE BID INCLUDES 4,000 SF OF MASONRY TUCKPOINTING AND 100 SF OF BRICK OR STONE MASONRY UNIT REPLACEMENT. REFER TO SECTION 012200 UNIT PRICES.

KEYED MASONRY MAINTENANCE NOTES: EDUCATION BUILDING No. 14

- CAREFULLY GRIND OR RAKE OUT DETERIORATED MORTAR AND SEALANT FROM ALL HEAD AND BED JOINTS IN DESIGNATED AREAS OF BRICK MASONRY TO A MINIMUM DEPTH OF 3/4" OR TO SOUND MORTAR, TAKING CARE TO AVOID DAMAGING MASONRY EDGES AND SURFACES. CLEAN SURFACES AND PREPARE TO RECEIVE NEW MORTAR OR SEALANT. INSTALL NEW POINTING MORTAR TO MATCH EXISTING ADJOINING MORTAR IN COLOR, TEXTURE AND JOINT PROFILE TO ELIMINATE EVIDENCE OF REPLACEMENT.
- CAREFULLY GRIND OR RAKE OUT DETERIORATED MORTAR AND SEALANT FROM ALL HEAD AND BED JOINTS IN ALL STONE PARAPET COPING TO A MINIMUM DEPTH OF 3/4" OR SOUND MORTAR, TAKING CARE TO AVOID DAMAGING STONE, MASONRY EDGES AND SURFACES. CLEAN SURFACES AND PREPARE TO RECEIVE NEW MORTAR OR SEALANT. INSTALL NEW BACKER ROD AND JOINT SEALANT AT ALL HEAD AND BED JOINTS IN STONE COPING.

KEYED ROOF REPLACEMENT NOTES: EDUCATION BUILDING No. 14

- EXISTING OUT STONE COPING CONTINUOUS AT TOP OF PARAPET.
- EXISTING BRICK MASONRY PARAPET WALL.
- EXISTING STRUCTURAL CONCRETE BEAM AT PERIMETER OF ROOF DECK.
- EXISTING STRUCTURAL REINFORCED CONCRETE ROOF DECK (2 1/2" THICK).
- EXISTING OUT STONE LINTEL CONTINUOUS AT TOP OF WINDOW OPENINGS.
- EXISTING STEEL ANGLE LINTEL CONTINUOUS AT WINDOW OPENINGS.
- EXISTING 1 1/2" STEEL ROOF DECK OVER STEEL JOISTS (SOUTH ROOF ONLY).
- INSTALL 3/4" HIGH-DENSITY POLYISO COVER BOARD OVER TAPERED POLYISO INSULATION (MINIMUM AVERAGE R-30) MECHANICALLY-FASTENED TO STRUCTURAL ROOF DECK.
- INSTALL RIGID INSULATION INFILL AT VERTICAL SURFACE OF PARAPET WALL TO PROVIDE FLUSH VERTICAL SURFACE FOR TPO MEMBRANE FLASHING UP AND OVER THE TOP OF THE PARAPET.
- INSTALL 60-MIL TPO MEMBRANE FULLY-ADHERED TO NEW INSULATION SYSTEM - EXTEND UP AND OVER TOP OF PARAPET - TERMINATE UNDER NEW CONTINUOUS SHEET METAL EDGE FASCIA.
- INSTALL NEW PRE-FINISHED 24 GAUGE SHEET METAL EDGE FASCIA SYSTEM AT TOP OF PARAPET.
- EXTEND NEW 60-MIL TPO ROOF MEMBRANE UP VERTICAL FACE OF PARAPET - SEAL OFF WITH CONTINUOUS HORIZONTAL TERMINATION BAR ANCHORED INTO MASONRY.
- INSTALL NEW PRE-FINISHED 24 GAUGE SHEET METAL COUNTERFLASHING INSERTED INTO CONTINUOUS SHEET METAL REGLET.
- NOT USED ON THIS SHEET.
- NOT USED ON THIS SHEET.
- REMOVE EXISTING 5"x 8" CAST IRON THROUGH-WALL OVERFLOW WEIR SLEEVE. INFILL OPENING WITH BRICK MASONRY TO MATCH ADJACENT.
- INSTALL EXISTING 5"x 8" CAST IRON THROUGH-WALL OVERFLOW WEIR SLEEVE AT UNDERSIDE OF STONE PARAPET CAP. EXTEND TPO MEMBRANE FLASHING AND COUNTERFLASHING FROM ROOF AND PARAPET INTO OVERFLOW WEIR SLEEVE.
- 6" Ø PVC ROOF DRAIN PIPING EXTENDED FROM ROOF DRAIN OUTLET TO DOWNSPOUT NOZZLE INLET @ 1/8" PER FT MINIMUM SLOPE TO DRAIN. PIPE SUPPORTS ANCHORED TO UNDERSIDE OF ROOF DECK PER SECTION 221005. WRAP ENTIRE PIPE LENGTH FROM ROOF DRAIN OUTLET TO DOWNSPOUT NOZZLE INLET WITH 1" INSULATION PER SECTION 220719.
- 6" Ø THROUGH-WALL DOWNSPOUT NOZZLE, CAST NICKEL-BRONZE BODY & FLANGE, PVC SLIP-ON INLET, MASONRY ANCHOR BOLTS BY MANUFACTURER.
- PRE-FINISHED 24-GAUGE SHEET METAL LEADER HEAD - TOP FLANGE MOUNTED 2" BELOW FLOWLINE OF DOWNSPOUT NOZZLE.
- 6"x 6" PRE-FINISHED 24-GAUGE SHEET METAL DOWNSPOUT. STRAPS @ 48" O.C. TURN OUT 90° ONTO SPLASHBLOCK AT GRADE.



3/22/2024
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